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:	APRIL 20, 2024
	3680 WHEELER AVE, SUITE 300	CONTRACT NO:	24-DES-ITBPW-424
	ALEXANDRIA, VIRGINIA 22304	CONTRACT TITLE:	South Eads St Phase II project

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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. 24-DES-ITBPW-424 including any attachments or amendments thereto.

EFFECTIVE DATE: APRIL 26, 2024
EXPIRES: 365 FROM ISSUANCE OF NTP TO ACHIEVE SUBSTANTIAL COMPLETION & ANOTHER 60 DAY TO ACHIEVE FINAL COMPLETION (APPROXIMATELY JUNE 15, 2025)
RENEWALS: NONE
COMMODITY CODE(S): 91319,91359,91315,91345,91360
LIVING WAGE: N

ATTACHMENTS:
AGREEMENT No. 24-DES-ITBPW-424

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

VENDOR CONTACT: DEJAN DRAGACEVAC VENDOR TEL. NO.: (703) 924-7220

EMAIL ADDRESS: DAN@SAGRESCONSTRUCTION.COM

COUNTY CONTACT: CARLOS CARDOVA (DES-ENG) COUNTY TEL. NO.: (703) 228-0764

COUNTY CONTACT EMAIL: CCORDOVA@ARLINGTONVA.US

PURCHASING DIVISION AUTHORIZATION

____Sy Gezachew_____ Title Procurement Officer_____ Date_April 26, 2024_____

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

AGREEMENT NO. 24-DES-ITBPW-424

THIS AGREEMENT is made, on 4/26/2024, between **Sagres Construction Corporation**, 3680 Wheeler, 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. 24-DES-ITBPW-424, and all modifications properly incorporated into the Agreement
- Exhibit A – Arlington County Invitation to Bid No. 24-DES-ITBPW-424, including DES General Conditions, Special Conditions, and Supplementary Specifications, included herein by reference
- Exhibit B – Specifications, Drawings and Construction Notes
- Exhibit C – Virginia Department Of Labor And Industry Wage Determination Decision
- Exhibit D – Price Bid of Contractor
- Exhibit E – Contractor Performance Evaluation Form

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 south Eads Street Phase II Improvements 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,

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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 the Notices section, unless the Contractor is otherwise notified in writing.

4. TIME FOR COMPLETION

Work under this Agreement shall achieve Substantial Completion no later than three hundred sixty-five (365) 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 three hundred sixty-five (365) 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 sixty (60) 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. CONTRACT AMOUNT

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 D, 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. All payments will be made from the County to the Contractor via ACH. The number of the County Purchase Order pursuant to work has been performed must appear on all invoices.

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The Contractor also must submit to the County's Project Officer its W-9 Form, which will include its Federal Employer Identification Number ("FEIN") or Social Security Number ("SSN"), whichever is applicable, before the County can process payment to the Contractor under the Contract.

8. PAYMENT OF SUBCONTRACTORS

The Contractor is wholly responsible for the entire amount owed to any subcontractor with which the Contractor contracts in the performance of this Agreement, regardless of whether the Contractor has received payment from the County.

If the Contractor has not received payment from the County for work completed by a subcontractor under this Contract, the Contractor must pay the subcontractor within 60 days of receipt of an invoice from the subcontractor following satisfactory completion of the work. The Contractor is not liable for amounts that are not owed as a result of the subcontractor's noncompliance with the terms of the Contract, in which case the Contractor must notify the subcontractor, in writing within 50 days of receipt of an invoice from the subcontractor for the work, of its intention to withhold payment, in full or in part, and the reason for doing so. The notice must specify the contractual noncompliance, the dollar amount being withheld and the lower-tier subcontractor responsible for the contractual noncompliance, if applicable.

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. PREVAILING WAGE CONTRACT REQUIREMENTS

A. Section 4-104 of the Arlington County Purchasing Resolution (regarding "Prevailing Wage) applies to this Contract. All employees of the Contractor and any subcontractors shall be paid wages, salaries, benefits, and other remuneration at or above the craft or trade category

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prevailing wage rate indicated by Virginia Commissioner of Labor and Industry (DOLI) and as listed in the contract.

The Contractor and its subcontractors shall submit all certified payrolls and statements of compliance weekly through the eComply website. If the Contractor or any subcontractor does not have an eComply profile, a one-time registration process immediately following the Notice of Award or Notice of Intent to Award and training on system functionality are required for each non-registered entity. The Contractor shall also be responsible for reviewing subcontractor payrolls and ensuring that contract requirements are met.

In addition to applying the prevailing wage rates to its own employees, the Contractor shall include the provisions of this Article 4-104 in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor agrees to assume the obligation that the wage requirements will be observed in fulfilling the requirements of the Contract. The appropriate enforcement sanctions will be invoked against the Contractor and any such subcontractor in the event of such subcontractor's failure to comply with any of the provisions of this Article 4-104.

All wage rates to be used are listed in this Contract in Exhibit E. While DOLI maintains a list of wage determinations online for reference purposes, only the wage determinations made in an official Wage Determination Decision, sent by DOLI to Arlington County, can be used to ascertain the exact rates to be paid for this Contract.

All rates are determined by DOLI and any appeals of specific classification may be made through the Wage Determination Appeal form available at http://www.doli.virginia.gov/wp-content/uploads/2021/04/Appeal-for-Wage-Determination-Clarification.pdf.

B. Upon award of the Contract, the Contractor shall certify, under oath, to the Virginia Commissioner of Labor and Industry and to the County Prevailing Wage Compliance Manager, the pay scale for each craft and trade to be employed for, or to provide labor for, in the Work by the Contractor and any subcontractors. The Contractor's certification shall include all information required by the Code of Virginia § 2.2-4321.3G.

C. The Contractor shall ensure that each individual providing labor as a mechanic, laborer, worker or equivalent shall be accurately classified in confirmation with the Wage Determination.

D. The Contractor shall post the prevailing wage rate for each craft and classification involved as determined by DOLI, including the effective date, in a prominent and easily accessible place at the work site during the time work is being performed. The posting must be in English and any other language that is primarily spoken by the individuals at the work site. Within 10 days of such posting the Contractor shall certify to the County Prevailing Wage Compliance Manager and DOLI its compliance with this subsection at https://www.doli.virginia.gov/wp-content/uploads/2021/04/PW_Posting_Compliance_Form.pdf;

E. The Contractor must fully cooperate with the County Prevailing Wage Compliance Manager to ensure contract compliance requirements ,including but not limited to site visits, wage rate signage, contractor employee interviews, and the submission of certified payroll records.

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F. The Contractor must submit to the County Prevailing Wage Compliance Manager and DOLI, within five (5) working days of the end of each month, certification for each craft or trade employed on the project, specifying the total hourly amount paid to employees, including wages and applicable fringe benefits using the Pay Scale Certification Form at https://www.doli.virginia.gov/wp-content/uploads/2021/04/DOLI-Pay-Scale-Certification-for-Public-Works-Projects.pdf. The certification must itemize the amount paid in wages and each applicable benefit and list the names and addresses of any third party fund, plan or program to which benefit payments will be made on behalf of employees.

G. The Contractor shall indemnify and hold harmless the County from any fines, demands, claims, suits, and damages, including attorney's fees, resulting from the Contractor's or any subcontractor's failure to pay the Prevailing Wage.

H. The Contractor and its subcontractors shall keep, maintain, and preserve (i) records relating to the wages paid to and hours worked by each individual performing the work of any mechanic, laborer, or worker; and (ii) a schedule of the occupation or work classification at which each individual performing the work of any mechanic, laborer, or worker on the construction project is employed each work day and week. The Contractor and its subcontractors shall make such records available to the Prevailing Wage Compliance Manager within 10 days of a request or per a regular schedule established in the Contract, and shall certify that records reflect the actual hours worked and the amount paid to its workers for whatever time period is requested. The Contractor and its subcontractors must preserve these records for a period of six (6) years after the expiration or earlier termination of the applicable contract.

I. Any Contractor or subcontractor who pays any mechanic, laborer, or worker for services under this Contract less than the Prevailing Wage shall be liable to such individuals for the payment of all wages due, plus interest at an annual rate of eight percent (8%) from the dates wages were due; and shall be disqualified from bidding on public contracts with any public body until the Contractor or subcontractor has made full restitution. A willful violation of Article 4-104 is a Class I misdemeanor.

J. For questions regarding Prevailing Wage, please email prevailingwage@arlingtonva.us.

10. 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.

11. 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 $1,188.00 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 $1,188.00 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 $1,188.00 per calendar day is in proportion to the actual loss the County

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would suffer from such delay. Therefore, the Contractor will pay the County as liquidated damages $1,188.00 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.

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

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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.

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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. EMPLOYMENT DISCRIMINATION BY CONTRACTOR PROHIBITED

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. EMPLOYMENT OF UNAUTHORIZED ALIENS PROHIBITED

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

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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. 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.

22. 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.

23. UNSATISFACTORY WORK

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.

24. 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.

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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

1. 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. Termination for Breach or Default. 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.

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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.

25. INDEMNIFICATION

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.

The Contractor agrees to defend, indemnify, and hold harmless County from any and all damages, costs, claims, expenses, suits, losses, liabilities, or obligations of any kind including without limitation, environmental assessments, evaluations, remediations, fines, penalties, and clean-up costs which may be asserted against or imposed upon, or incurred by County arising from Contractor's discharge or disposal of any hazardous or toxic materials, trash, debris, refuse, waste or other materials ("Materials") related in any way to contractor's operations herein.

26. INTELLECTUAL PROPERTY INDEMNIFICATION

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

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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. 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.

28. 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.

29. 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.

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30. 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.

31. 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.

32. 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, provided that the affected party gives notice to the other party as soon as practicable after the force majeure event, including reasonable detail and the expected duration of the event's effect on the party.

33. AUTHORITY TO TRANSACT BUSINESS

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.

34. 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.

35. 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.

36. 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.

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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)

37. AUDIT

The Contractor must retain all books, records and other documents related to this Contract for at least five (5) years, unless otherwise specified in the Contract, 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 (5) years after the final payment, unless otherwise specified in the Contract, 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.

38. 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.

39. AMENDMENTS

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

40. 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.

41. 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

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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.

42. 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.

43. ARBITRATION

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

44. 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.

45. 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.

46. 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.

47. 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.

48. 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.

49. 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.

50. 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.

51. NOTICES

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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, VA 22304
Phone: (703) 924-7220
Email: dan@sagresconstruction.com

TO THE COUNTY:

Carlos Cardova Alvira, Project Officer
Arlington County, Virginia
Dept. Of Environmental Services, Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington County, VA
Phone: (703) 228-0764
Email: ccordova@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: slewis1@arlingtonva.us

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

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

52. NON-DISCRIMINATION NOTICE

Arlington County does not discriminate against faith-based organizations.

53. 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.

54. 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.

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55. CONTRACTOR PERFORMANCE EVALUATION

Arlington County will perform written evaluations of the Contractor's performance at various intervals throughout the term of this Contract. The evaluations will address, at a minimum, the Contractor's work/performance, quality, cost controls, schedule, timeliness and sub-contractor management. The Project Officer shall be responsible for completing the evaluations and providing a copy to the Contractor and County Procurement Officer.

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

AUTHORIZED SIGNATURE: DocuSigned by: Sy Gezachew 27FC198F4A6D475...

NAME: Sy Gezachew

TITLE: PROCUREMENT OFFICER

DATE: 4/26/2024

SAGRES CONSTRUCTION CORPORATION

AUTHORIZED SIGNATURE: DocuSigned by: Dejan Dragacevac 817420F7C4FC427...

NAME: Dejan Dragacevac

TITLE: Vice President

DATE: 4/23/2024

DocuSign Envelope ID: 838BE37D-2B20-48B3-8E49-5E344DD8E6D6

EXHIBIT B

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REVISED ON 01/03/2022

ARLINGTON
VIRGINIA

ENGINEER
DEPARTMENT OF
ENVIRONMENTAL SERVICES

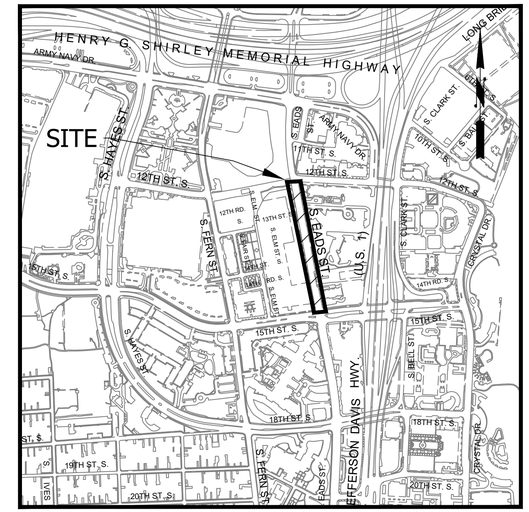
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629 FAX: 703.228.3606
WWW.ARLINGTONVA.US

OWNER
DEPARTMENT OF
TRANSPORTATION PLANNING

2100 CLARENDON BOULEVARD, SUITE 900
ARLINGTON, VA 22201
PHONE: 703.228.3629 FAX: 703.228.3606
WWW.ARLINGTONVA.US

CONTRACTOR
TO BE DETERMINED

LOCATION MAP



0 600 1200
GRAPHIC SCALE

CONSTRUCTION DRAWINGS FOR:

S EADS STREET PHASE II STREET IMPROVEMENTS
S EADS ST (12TH ST. S. TO 15TH ST. S.)

PROJECT NUMBER: CC23

GENERAL NOTES:

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.
2. ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
3. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.
4. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY". PRIVATE WATER, SEWER AND GAS LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR SHALL LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA TO PROVIDE ALL NECESSARY CONSTRUCTION LAYOUTS AND ESTABLISH ALL CONTROL LINES, GRADES, AND ELEVATION DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL CUT SHEETS FOR REVIEW, PER THE SPECIFICATIONS. THE COST OF ALL NECESSARY SURVEYING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND, UNLESS OTHERWISE SPECIFIED, THE COST SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
6. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE RECORDS AND SHALL BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY REACHES IN PROXIMITY TO EXISTING UTILITIES, THE TRENCH(ES) SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK OR TEST PITS SHALL BE MADE TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY TO ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE AS DIRECTED BY OFFICER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
7. EXISTING MANHOLE FRAMES, COVERS, VALVE BOXES, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO THE FINAL GRADE OR REPLACED, AS NECESSARY. UNLESS OTHERWISE SPECIFIED, THE COST FOR THIS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
8. THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT ACCESS THROUGH OR AROUND THE SITE AT ALL TIMES AND SHALL ENSURE THE SAFETY OF ALL THOSE PASSING THROUGH OR ADJACENT TO THE SITE.
9. ALL SIDEWALK AND CURB AND GUTTER DEMOLITION SHALL BEGIN AND END AT THE CONSTRUCTION JOINT NEAREST TO THE DEPICTED DEMOLITION EXTENTS WITH A NEAT SAWCUT LINE TO FULL DEPTH OF PAVEMENT SECTION.

STORMWATER AND ENVIRONMENTAL PROTECTION

10. THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES AT THE SITE ASSOCIATED WITH CONSTRUCTION ACTIVITIES, TO INCLUDE STORAGE OF EQUIPMENT AND OR MATERIALS, ACCESS TO THE WORK, FORMWORK, ETC. TO WITHIN THE DESIGNATED LIMITS OF DISTURBANCE (LOD).

TREE PROTECTION

11. TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF ARLINGTON PARKS & RECREATION STANDARD.

TRAFFIC CONTROL

12. CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
13. THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
14. THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 5 BUSINESS DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS. PRIOR TO A REQUEST FOR THE REMOVAL OF ACCESS TO ANY ADA PARKING SPACE THE CONTRACTOR MUST HAVE MADE PROVISION FOR ALTERNATIVE ADA PARKING AS INDICATED ON THE APPROVED PLAN OR AS DIRECTED BY THE PROJECT OFFICER.
15. WHEN THE APPROVED PLAN CALLS FOR THE REMOVAL OF ANY PARKING METER THE CONTRACTOR MUST MAKE A REQUEST TO THE PROJECT OFFICER AT LEAST ONE WEEK IN ADVANCE OF THE DESIRED REMOVAL. THE PROJECT OFFICER WILL THEN COORDINATE THE PARKING METER REMOVAL WITH TRAFFIC ENGINEERING AND OPERATIONS.
16. THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESSIBILITY THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. ANY RELOCATION OR CLOSURE OF A BUS STOP SHALL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR - 703-228-3049.
17. 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 OR THE COUNTY'S TRANSPORTATION NETWORK.

WATER DISTRIBUTION, STORM AND SANITARY SEWER SYSTEMS

18. UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE PROJECT OFFICER AT LEAST 1 WEEK IN ADVANCE OF THE REQUIRED OPERATION.
19. 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.
20. THE CONTRACTOR SHALL COORDINATE ALL UTILITY SHUTOFFS, DISCONNECTS, AND/OR ABANDONMENT WITH UTILITY OWNER AND PROJECT OFFICER AT LEAST 1 WEEK IN ADVANCE OF THE REQUIRED INTERRUPTION.

FIRE DEPARTMENT NOTES:

21. ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 507.5.4 AND 507.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
22. ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS IN ACCORDANCE WITH SECTION 503.4 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE. ACCESS TO CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH SECTION 3310 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
23. IN THE EVENT THAT EXISTING FIRE DEPARTMENT CONNECTIONS OR FIRE APPARATUS ACCESS ROADS (FIRE LANES) MUST BE OBSTRUCTED TO FACILITATE CONSTRUCTION ACTIVITIES, CONTACT THE ARLINGTON COUNTY FIRE DEPARTMENT FIRE PREVENTION OFFICE AT 703-228-4644 TO COORDINATE REVIEW AND APPROVAL OF TEMPORARY FIRE DEPARTMENT CONNECTIONS AND/OR FIRE APPARATUS ACCESS ROADS PRIOR TO CREATING THE OBSTRUCTION.

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C002.1	DETAILS
C004.1	TYPICAL SECTIONS
C004.2	TYPICAL SECTIONS
C004.3	TYPICAL SECTIONS
C004.4	TYPICAL SECTIONS
C006.1	LEGEND
C011.1	EXISTING CONDITIONS PLAN
C011.2	EXISTING CONDITIONS PLAN
C021.1	DEMOLITION PLAN
C031.1	EROSION AND SEDIMENT CONTROL PLAN
C031.2	EROSION AND SEDIMENT CONTROL PLAN
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SWM#
SWM# 22-0276

ADT
7,300 - SOUTH EADS STREET (12TH STREET TO 15TH STREET) - 2018 - VDOT

STREET CLASSIFICATION
SOUTH EADS STREET - MINOR ARTERIAL

POSTED SPEED
SOUTH EADS STREET - 25 MPH

ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)
COVER

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

C000.1

FILENAME: CC23-200-COVER.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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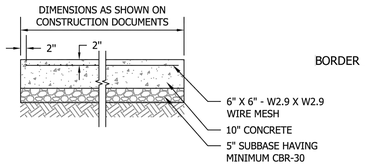
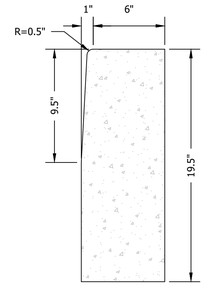
REVISED ON 01/03/2022



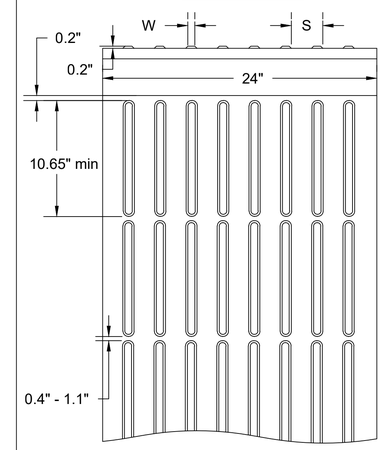
CROSS-SECTION



NOTES:
1. EXPANSION JOINTS SHALL BE 40' APART OR AT EXPANSION JOINTS IN CONCRETE PAVEMENT
2. EXPANSION JOINTS MAY BE OMITTED IF $\frac{3}{4}$" JOINTS ARE PLACED EVERY 10' OR LESS
3. EXPANSION JOINTS IN THE SIDEWALK SHALL BE 40' APART. IF ADJACENT TO CONCRETE CURB, EXPANSION JOINTS SHALL MATCH JOINT OF CURB. AN EXPANSION JOINT SHALL BE PLACED BETWEEN CURB AND SIDEWALK.
4. SEE ARLINGTON COUNTY SPECIFICATION SECTIONS 02611 AND 03100 FOR MATERIAL SPECS.
5. PROVIDE 6" MINIMUM AGGREGATE BASE HAVING CBR-30 UNDER CURB AND GUTTER

MODIFIED HEADER CURB

W (in)	S (in)
0.67	2.25 - 3
0.8	2.35 - 3.15
1	2.55 - 3.25
1.2	2.75 - 3.35



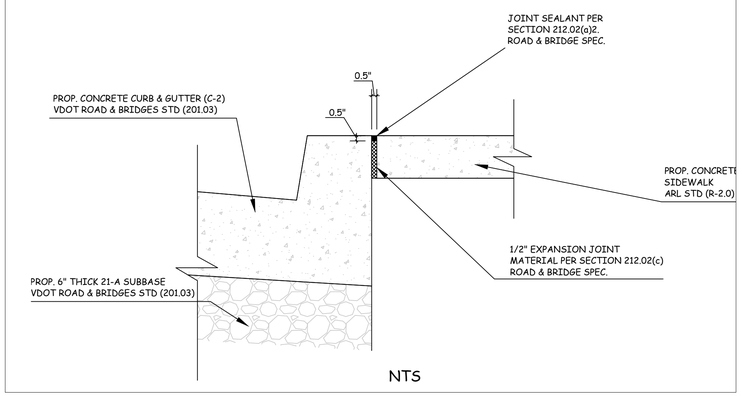
LONGITUDINAL
DIRECTIONAL INDICATORS
N.T.S.

BUS STOP PAD

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

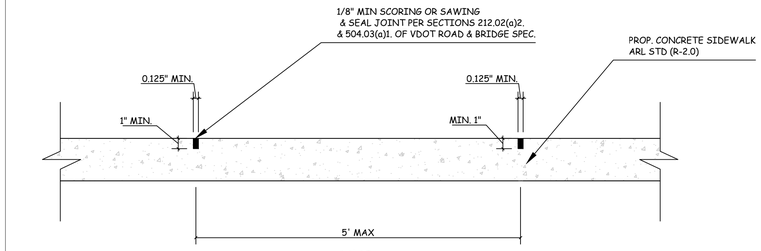
ISSUED 9/14/2020
DRAWING NO.
R-2.11

EXPANSION JOINT BETWEEN CONCRETE SIDEWALK AND CURB & GUTTER



NTS

CONCRETE SIDEWALK TRANSVERSE CONTROL JOINT



NTS

SITE FURNISHINGS

1. ALL SITE FURNISHINGS TO BE PROVIDED TO THE CONTRACTOR BY ARLINGTON COUNTY. THIS INCLUDES BUT IS NOT LIMITED TO BENCHES, LEAN BARS, TRASH RECEPTACLES, AND BUS SHELTERS.
2. ARLINGTON COUNTY WILL PROVIDE THE SHELTER HARDWARE PACKAGE. ALL OTHER FASTENERS ARE TO BE PROVIDED BY THE CONTRACTOR. ALL FASTENERS TO BE STAINLESS STEEL.

UTILITIES

1. THE UTILITY INFORMATION SHOWN ON THESE PLANS IS TAKEN FROM ARLINGTON COUNTY GIS DATA. THE DEPARTMENT OF ENVIRONMENTAL SERVICES DOES NOT GUARANTEE THAT THE UTILITY INFORMATION SHOWN ON THE PLANS IS COMPLETE OR ACCURATE. THE CONTRACTOR MUST VERIFY THE UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
2. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MARKED IN THE FIELD BY MISS UTILITY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE FIELD MARKING OF UTILITIES WITH MISS UTILITY.
3. ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF THESE UTILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EXISTING UTILITIES ARE DISCONNECTED, PRIOR TO CLEARING THE SITE OF TREES, BUILDINGS, FOUNDATIONS, ETC. WITHIN THE LIMITS OF CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS INDICATED ON THE CONSTRUCTION PLANS.
5. FOR MARKING LOCATIONS OF EXISTING UNDERGROUND UTILITY FACILITIES (GAS, TELEPHONE, ELECTRIC AND CABLE TV), CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 OR 1-800-257-7777 48 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

UTILITY COMPANIES	OFFICE NUMBER	EMERGENCY NUMBER
COMCAST CABLE COMMUNICATIONS	(703) 567-4191	1800-441-6917
DOMINION VIRGINIA POWER	(571) 203-5241	(703) 934-9660
PEPCO	(202) 872-2845	(202) 833-7500
WASHINGTON GAS	(703) 750-1000	(703) 750-1400
VERIZON	(703) 212-5271	(703) 954-6611
MISS UTILITY	1-800-257-7777	1-800-257-7777

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S EADS ST (12TH ST. S. TO 15TH ST. S.)

DETAILS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

AS SHOWN

C002.1

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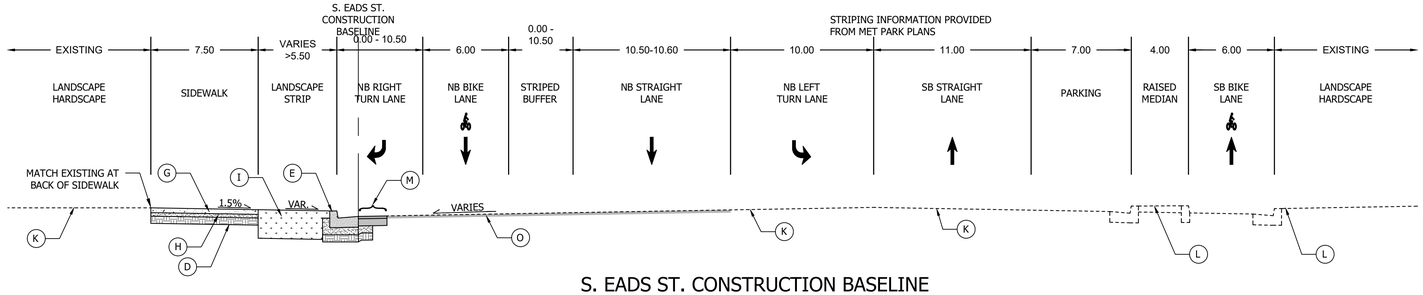
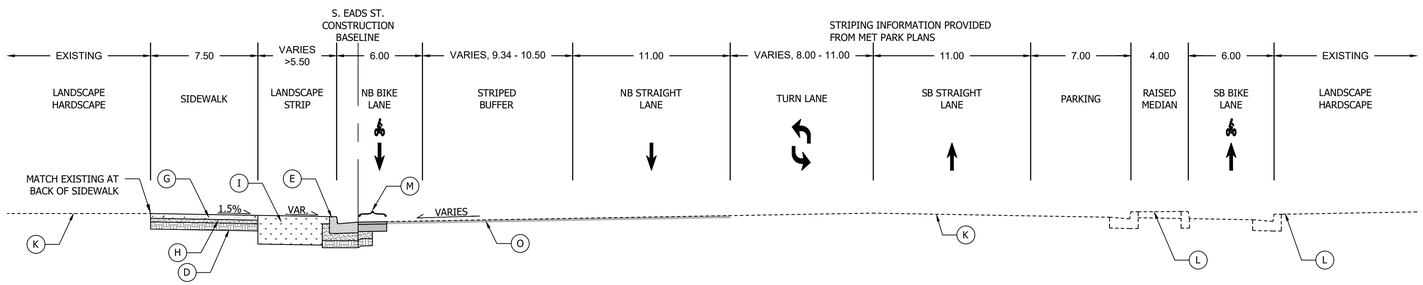
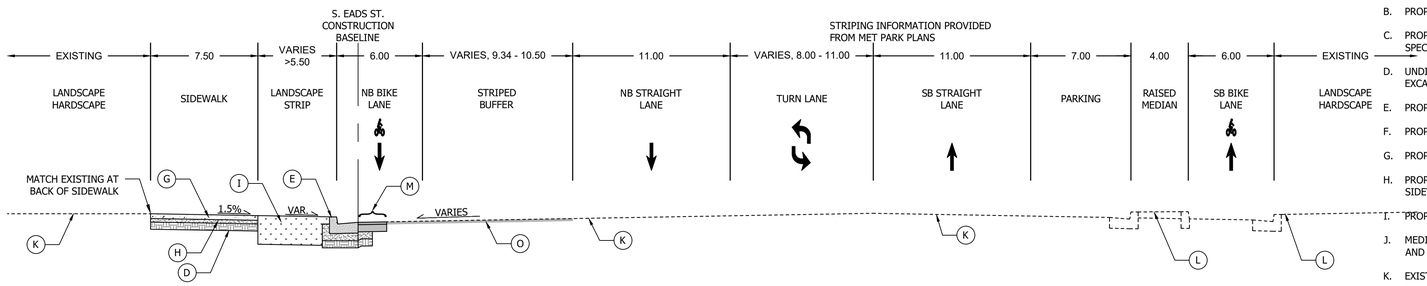


S. EADS ST. CONSTRUCTION BASELINE
STA. 10+50.00 TO STA. 11+09.18



S. EADS ST. CONSTRUCTION BASELINE
STA. 11+13.11 TO STA. 12+25.53
STA. 13+18.56 TO STA. 13+66.52



S. EADS ST. CONSTRUCTION BASELINE
STA. 15+89.61 TO STA. 16+23.07
STA. 16+66.12 TO STA. 17+54.57

A. PROP. SURFACE - 2" ASPHALT CONCRETE (TYPE SM-9.5A) PER ARL SPECS

B. PROP. BASE - 6" ASPHALT CONCRETE (TYPE BM-25.A) PER ARL SPECS

C. PROP. COMPACTED SUBBASE - 6" AGGREGATE BASE MATERIAL (#21A) PER ARL SPECS

D. UNDISTURBED SUBGRADE OR BACKFILL. ADD TO BASE WITHOUT ADDING EXTRA EXCAVATION. SOIL NOT TO BE COMPACTED

E. PROP. C-2 CURB & GUTTER & AGGREGATE BASE PER ARL STD R-2.0

F. PROP. C-3 HEADER CURB & AGGREGATE BASE PER ARL STD R-2.0

G. PROP. 4" STANDARD CONCRETE SIDEWALK PER ARL STD R-2.0

H. PROP. 3" MIN. AGGREGATE BASE MATERIAL (#21A) PER ARL STD R-2.0 UNDER SIDEWALK

I. PROP. TYP. 4"-6" TOPSOIL AND SEED PER ARL SPECS

J. MEDIAN WITH COMPACTED SUBBASE PER ARL STD R-1.4. REFER TO PLAN FOR SIZE AND SURFACE TYPE (GRASS OR CONCRETE)

K. EXISTING TO REMAIN

L. INFORMATION PROVIDED FROM PROPOSED MET PARK PLANS

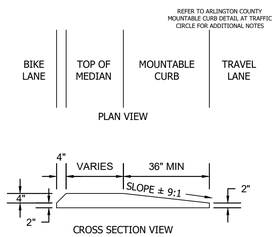
M. ASPHALT PAVEMENT WIDENING PER VDOT STD DETAIL WP-2

N. PROP. C-5 ALTERNATE CURB FOR MEDIANS & AGGREGATE BASE PER ARL STD R-2.0

O. MILL & VARIABLE DEPTH OVERLAY

P. MOUNTABLE MEDIAN - SEE DETAIL THIS SHEET

NOTE:
SEE PLAN FOR PROPOSED ROAD/SIDEWALK AND PARKING PAVEMENT & LANDSCAPE RESTORATION LAYOUT, SEE CROSS SECTIONS SHEET FOR PROPOSED CROSS SLOPES AND ELEVATIONS.



MOUNTABLE CONCRETE MEDIAN SURFACE DETAIL

ARLINGTON VIRGINIA
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ENGINEERING BUREAU
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ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

TYPICAL SECTIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

N.T.S.

C004.1

FILENAME: CC23-210-TYPICAL_SECTIONS.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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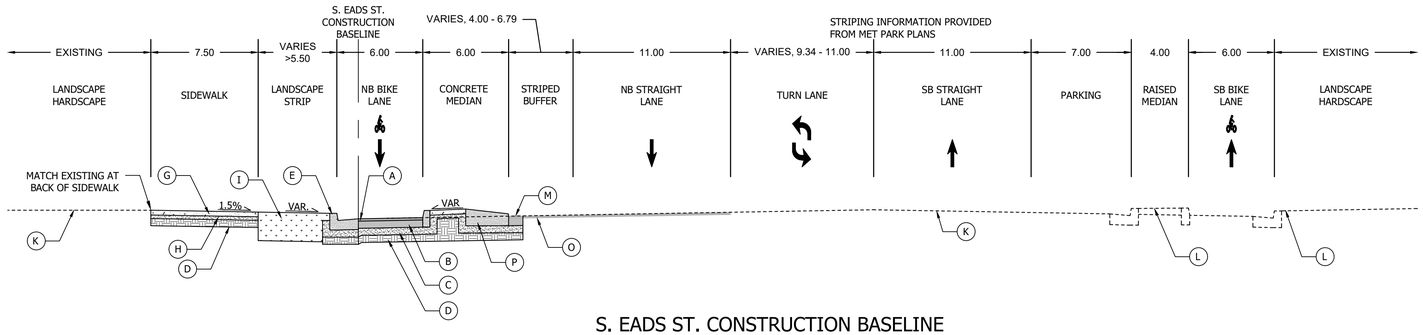
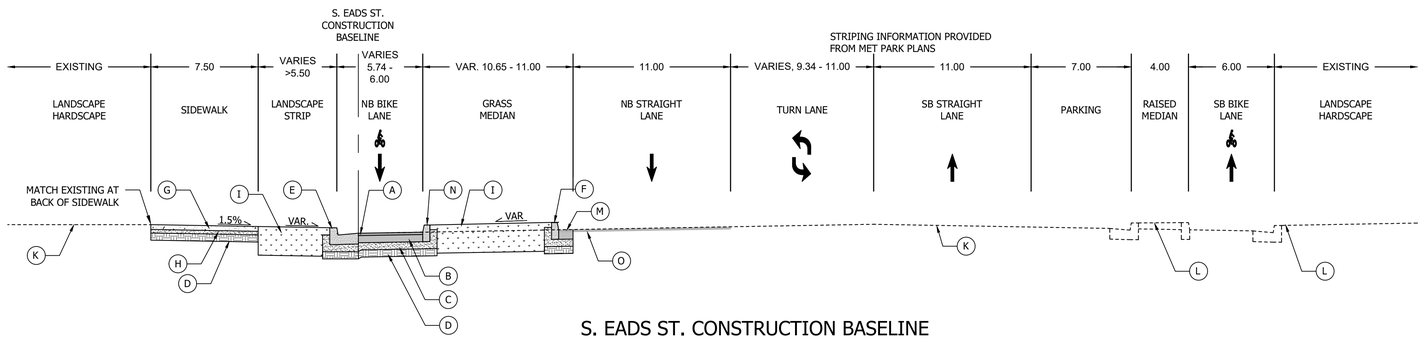
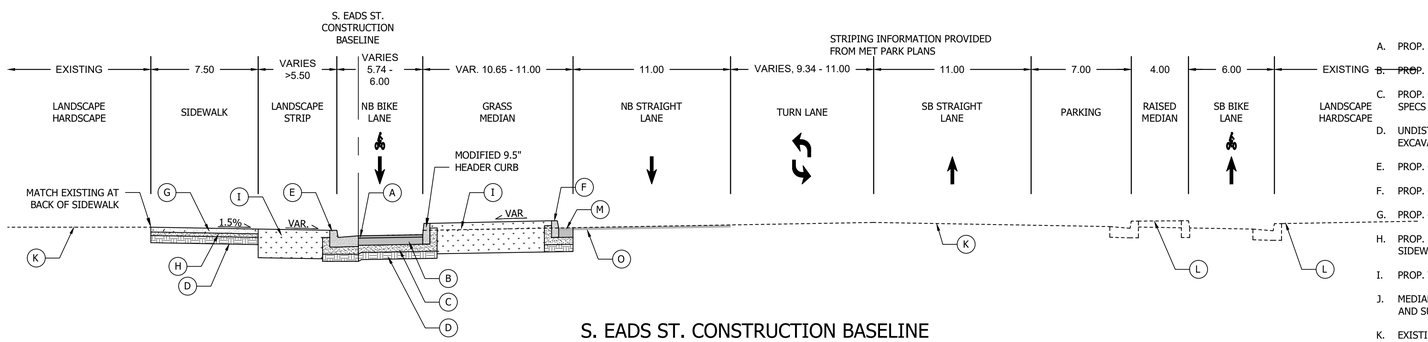


S. EADS ST. CONSTRUCTION BASELINE
STA. 12+25.53 TO STA. 13+18.56



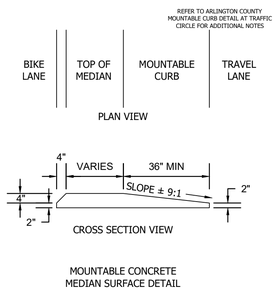
S. EADS ST. CONSTRUCTION BASELINE
STA. 13+66.52 TO STA. 13+68.53
STA. 14+59.38 TO STA. 14+63.25



S. EADS ST. CONSTRUCTION BASELINE
STA. 13+68.53 TO STA. 14+08.44
STA. 14+63.25 TO STA. 14+78.88

A. PROP. SURFACE - 2" ASPHALT CONCRETE (TYPE SM-9.5A) PER ARL SPECS
B. PROP. BASE - 6" ASPHALT CONCRETE (TYPE BM-25.A) PER ARL SPECS
C. PROP. COMPACTED SUBBASE - 6" AGGREGATE BASE MATERIAL (#21A) PER ARL SPECS
D. UNDISTURBED SUBGRADE OR BACKFILL. ADD TO BASE WITHOUT ADDING EXTRA EXCAVATION. SOIL NOT TO BE COMPACTED
E. PROP. C-2 CURB & GUTTER & AGGREGATE BASE PER ARL STD R-2.0
F. PROP. C-3 HEADER CURB & AGGREGATE BASE PER ARL STD R-2.0
G. PROP. 4" STANDARD CONCRETE SIDEWALK PER ARL STD R-2.0
H. PROP. 3" MIN. AGGREGATE BASE MATERIAL (#21A) PER ARL STD R-2.0 UNDER SIDEWALK
I. PROP. TYP. 4"-6" TOPSOIL AND SEED PER ARL SPECS
J. MEDIAN WITH COMPACTED SUBBASE PER ARL STD R-1.4. REFER TO PLAN FOR SIZE AND SURFACE TYPE (GRASS OR CONCRETE)
K. EXISTING TO REMAIN
L. INFORMATION PROVIDED FROM PROPOSED MET PARK PLANS
M. ASPHALT PAVEMENT WIDENING PER VDOT STD DETAIL WP-2
N. PROP. C-5 ALTERNATE CURB FOR MEDIANS & AGGREGATE BASE PER ARL STD R-2.0
O. MILL & VARIABLE DEPTH OVERLAY
P. MOUNTABLE MEDIAN - SEE DETAIL THIS SHEET

NOTE:
SEE PLAN FOR PROPOSED ROAD/SIDEWALK AND PARKING PAVEMENT & LANDSCAPE RESTORATION LAYOUT, SEE CROSS SECTIONS SHEET FOR PROPOSED CROSS SLOPES AND ELEVATIONS.



MOUNTABLE CONCRETE MEDIAN SURFACE DETAIL

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PLOTTED: SEPTEMBER 6 2023

SCALE:

N.T.S.

C004.2

FILENAME: CC23-210-TYPICAL_SECTIONS.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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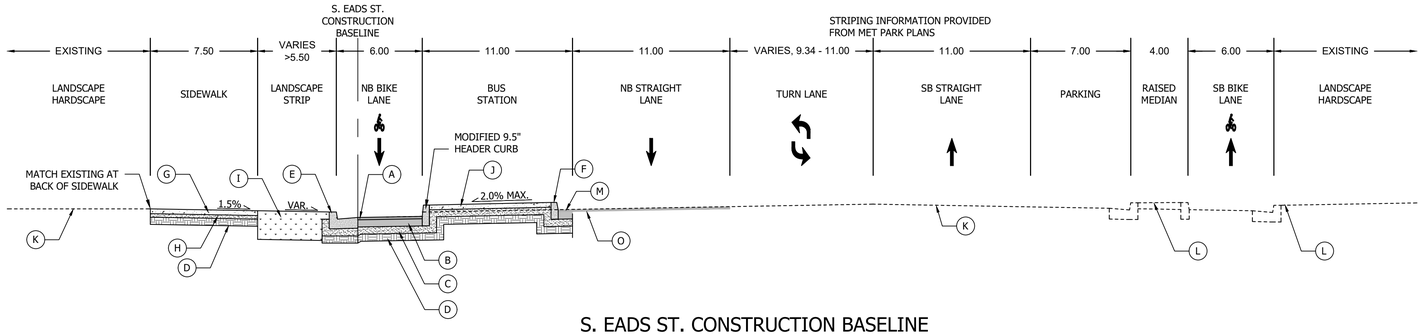
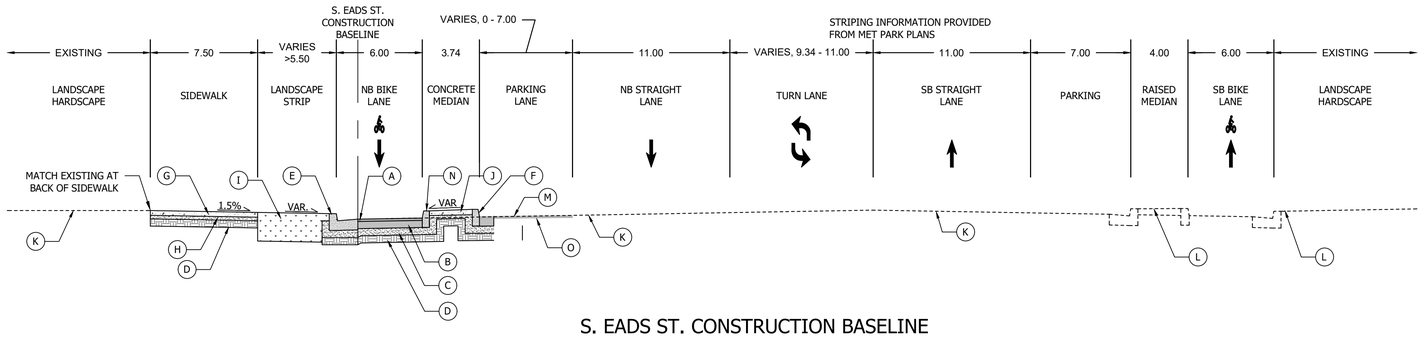
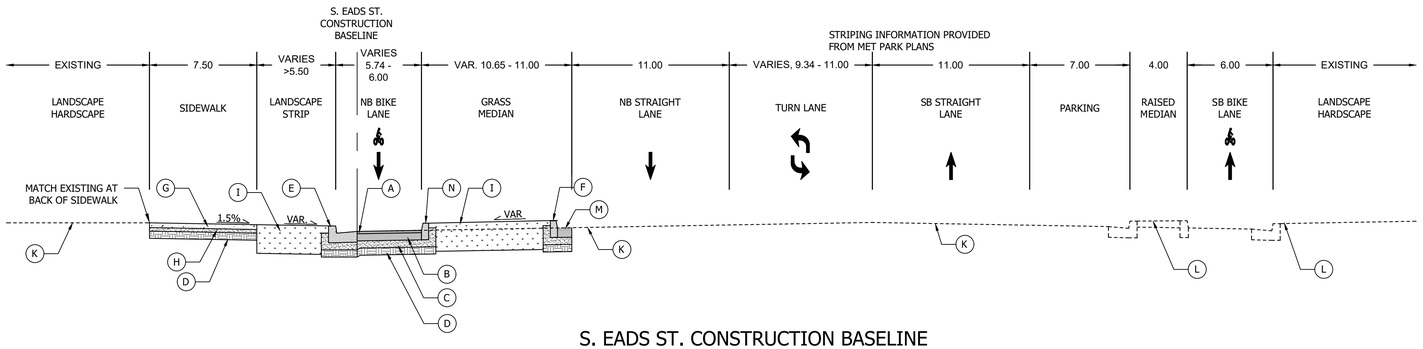


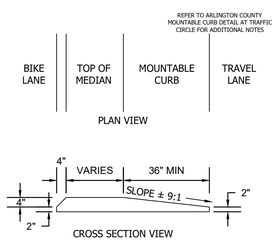
S. EADS ST. CONSTRUCTION BASELINE
STA. 14+08.34 TO STA. 14+59.38



S. EADS ST. CONSTRUCTION BASELINE
STA. 14+78.88 TO STA. 15+68.35



S. EADS ST. CONSTRUCTION BASELINE
STA. 15+68.35 TO STA 15+89.61



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F. PROP. C-3 HEADER CURB & AGGREGATE BASE PER ARL STD R-2.0

G. PROP. 4" STANDARD CONCRETE SIDEWALK PER ARL STD R-2.0

H. PROP. 3" MIN. AGGREGATE BASE MATERIAL (#21A) PER ARL STD R-2.0 UNDER SIDEWALK

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O. MILL & VARIABLE DEPTH OVERLAY

P. MOUNTABLE MEDIAN - SEE DETAIL THIS SHEET

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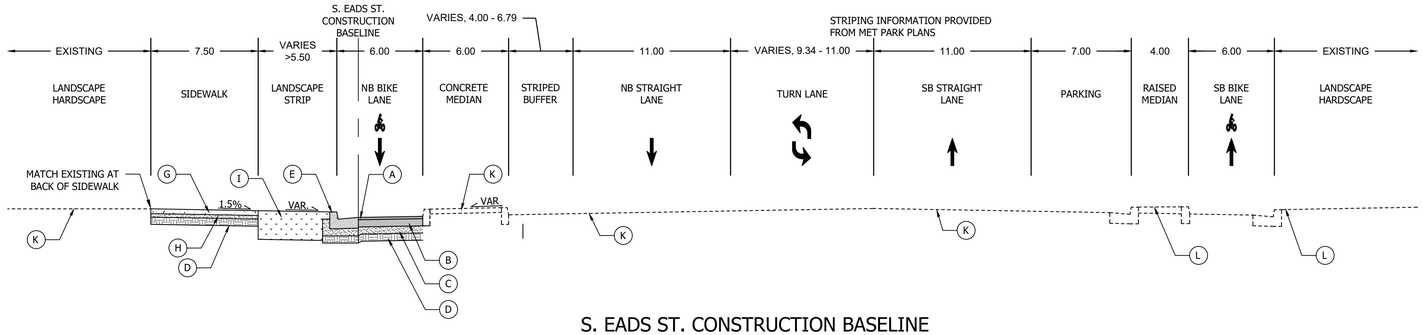
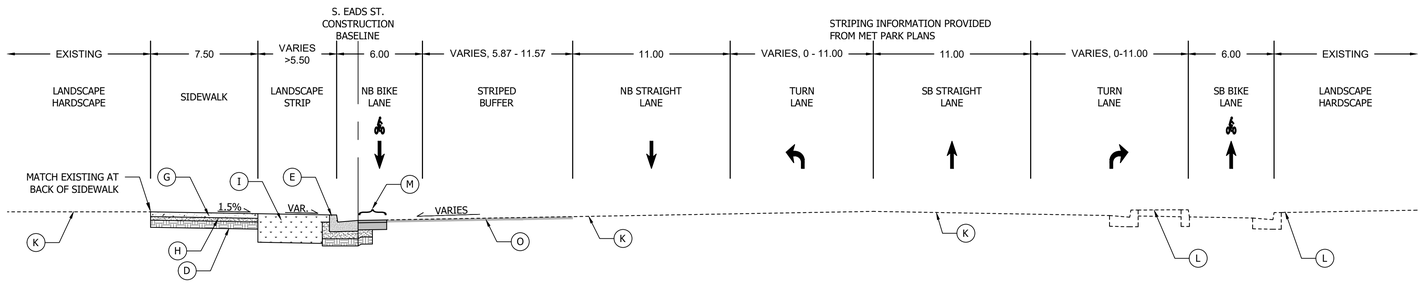
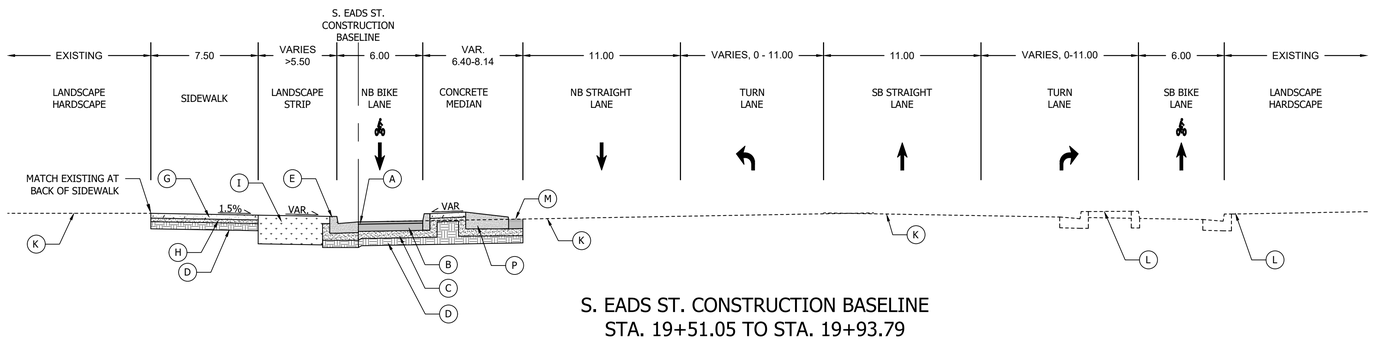


S. EADS ST. CONSTRUCTION BASELINE
STA. 16+23.07 TO STA. 16+66.12



S. EADS ST. CONSTRUCTION BASELINE
STA. 18+84.78 TO STA. 19+51.05
STA. 19+93.79 TO STA. 20+61.65



S. EADS ST. CONSTRUCTION BASELINE
STA. 19+51.05 TO STA. 19+93.79

A. PROP. SURFACE - 2" ASPHALT CONCRETE (TYPE SM-9.5A) PER ARL SPECS

B. PROP. BASE - 6" ASPHALT CONCRETE (TYPE BM-25.A) PER ARL SPECS

C. PROP. COMPACTED SUBBASE - 6" AGGREGATE BASE MATERIAL (#21A) PER ARL SPECS

D. UNDISTURBED SUBGRADE OR BACKFILL. ADD TO BASE WITHOUT ADDING EXTRA EXCAVATION. SOIL NOT TO BE COMPACTED

E. PROP. C-2 CURB & GUTTER & AGGREGATE BASE PER ARL STD R-2.0

F. PROP. C-3 HEADER CURB & AGGREGATE BASE PER ARL STD R-2.0

G. PROP. 4" STANDARD CONCRETE SIDEWALK PER ARL STD R-2.0

H. PROP. 3" MIN. AGGREGATE BASE MATERIAL (#21A) PER ARL STD R-2.0 UNDER SIDEWALK

I. PROP. TYP. 4"-6" TOPSOIL AND SEED PER ARL SPECS

J. MEDIAN WITH COMPACTED SUBBASE PER ARL STD R-1.4. REFER TO PLAN FOR SIZE AND SURFACE TYPE (GRASS OR CONCRETE)

K. EXISTING TO REMAIN

L. INFORMATION PROVIDED FROM PROPOSED MET PARK PLANS

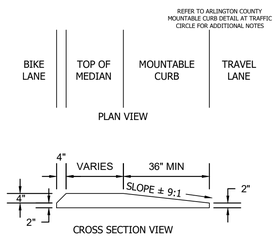
M. ASPHALT PAVEMENT WIDENING PER VDOT STD DETAIL WP-2

N. PROP. C-5 ALTERNATE CURB FOR MEDIANS & AGGREGATE BASE PER ARL STD R-2.0

O. MILL & VARIABLE DEPTH OVERLAY

P. MOUNTABLE MEDIAN - SEE DETAIL THIS SHEET

NOTE:
SEE PLAN FOR PROPOSED ROAD/SIDEWALK AND PARKING PAVEMENT & LANDSCAPE RESTORATION LAYOUT, SEE CROSS SECTIONS SHEET FOR PROPOSED CROSS SLOPES AND ELEVATIONS.



MOUNTABLE CONCRETE MEDIAN SURFACE DETAIL

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

TYPICAL SECTIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

N.T.S.

C004.4

FILENAME: CC23-210-TYPICAL_SECTIONS.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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REVISED ON 01/03/2022

LINETYPE LEGEND

FEATURE	EXISTING	PROPOSED
BUILDING		
CENTERLINE / BASELINE		
COMMUNICATIONS CABLE	COM COM	COM COM
CONTOURS - MAJOR, MINOR	250 250	250
CRITICAL ROOT ZONE	CRZ CRZ	CRZ CRZ
EASEMENT		
ELECTRIC (UNDERGROUND)	UGE UGE	UGE UGE
FENCE (MATERIAL NOTED)		X X X X X
FIBER OPTIC	FO FO	FO FO
GAS LINE	GAS GAS	GAS GAS
X" GAS LINE (SIZE INCLUDED IF AVAILABLE)	#" g #" g #" g	#" G #" G
GUARDRAIL		
HARDSCAPE FEATURE (MATERIAL NOTED)		
LIMITS OF DISTURBANCE	LOD LOD	LOD LOD
LIMITS OF WORK	LOW LOW	LOW LOW
OVERHEAD WIRES		
PAVEMENT MINI SKIP LINE		
PAVEMENT SKIP LINE		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
ROOT PRUNING	RP RP	RP RP
SANITARY SEWER	SAN	SAN
SANITARY SEWER UNDER 20" (SIZE INCLUDED IF AVAILABLE)	#" s #" s	
SANITARY SEWER OVER 20"		
SILT FENCE	X X X X X	X X X X X
STORM (SIZE NOTED)	STM STM	
STREAM		
STREET LIGHT CONDUIT	SL SL	SL SL
TELEPHONE (UNDERGROUND)	UGT UGT	UGT UGT
TREE LINE		
TREE PROTECTION FENCE	TP TP	TP TP
WALL		
WATERLINE UNDER 20" (SIZE INCLUDED IF AVAILABLE)	#" w #" w	
WATERLINE OVER 20"		

SYMBOL LEGEND

EXISTING FEATURE	PROPOSED FEATURE
EX CABLE PEDESTAL	
EX ELECTRIC BOX	
EX FIRE HYDRANT	PROP FIRE HYDRANT
EX GAS VALVE	PROP GAS VALVE
EX GROUND LIGHT	
EX GUY WIRES	
EX IRON PIPE OR PIN	
EX LIGHT POLE	PROP LIGHT POLE
EX MAILBOX	
EX MONUMENT	
EX PARKING METER	
EX PAY STATION	PROP PAY STATION
EX SANITARY MANHOLE	PROP SANITARY MANHOLE
EX STORM BASIN	PROP STORM CATCH BASIN (TO SCALE)
EX STORM MANHOLE	PROP STORM MANHOLE
EX TELEPHONE PEDESTAL	
EX TRAFFIC CONTROL BOX	
EX TRAFFIC SIGN	PROP TRAFFIC SIGN
EX TRASH CAN	PROP TRASH CAN
EX TRAVERSE	
EX TREES, WOODED AREA	PROPOSED TREE
	PROPOSED TREE REMOVAL
EX UTILITY MANHOLE TYPE INDICATED ELEC, TELE, ETC	
EX UTILITY POLE	PROP UTILITY POLE
EX WATER MANHOLE	PROP WATER MANHOLE
EX WATER METER	PROP WATER METER
EX WATER VALVE	PROP WATER VALVE
EX YARD INLET	PROP YARD INLET (TO SCALE)
EX BENCHMARK	CONSTRUCTION NOTES (LEADER TO AREA AFFECTED)
	DETAIL NUMBER (SEE NOTE)
NORTH ARROW	CURVE NUMBER (SEE CURVE TABLE)
	LINE NUMBER (SEE LINE TABLE)
	TEST HOLE

SYMBOL LEGEND

EXISTING FEATURE	PROPOSED FEATURE
EX STRIPING	PROP STRIPING
EX BUS STOP	PROP BUS STOP

LABEL LEGEND

EXISTING	PROPOSED
EXISTING SANITARY STRUCTURE NUMBER	PROPOSED SANITARY SEWER STRUCTURE NUMBER
EXISTING STORM SEWER STRUCTURE NUMBER	PROPOSED STORM SEWER STRUCTURE NUMBER

HATCH LEGEND

PROP MILL & OVERLAY
SEE TYPICAL SECTION FOR DETAILS

PROP FULL DEPTH ASPHALT
SEE TYPICAL SECTION FOR DETAILS

PROP CONCRETE

REPLACE & MATCH EXISTING DRIVEWAY
OR LEADWALK. SEE CONSTRUCTION NOTES

DEMOLITION AREA

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
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ENGINEERING BUREAU
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Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

LEGEND

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

N/A

C006.1

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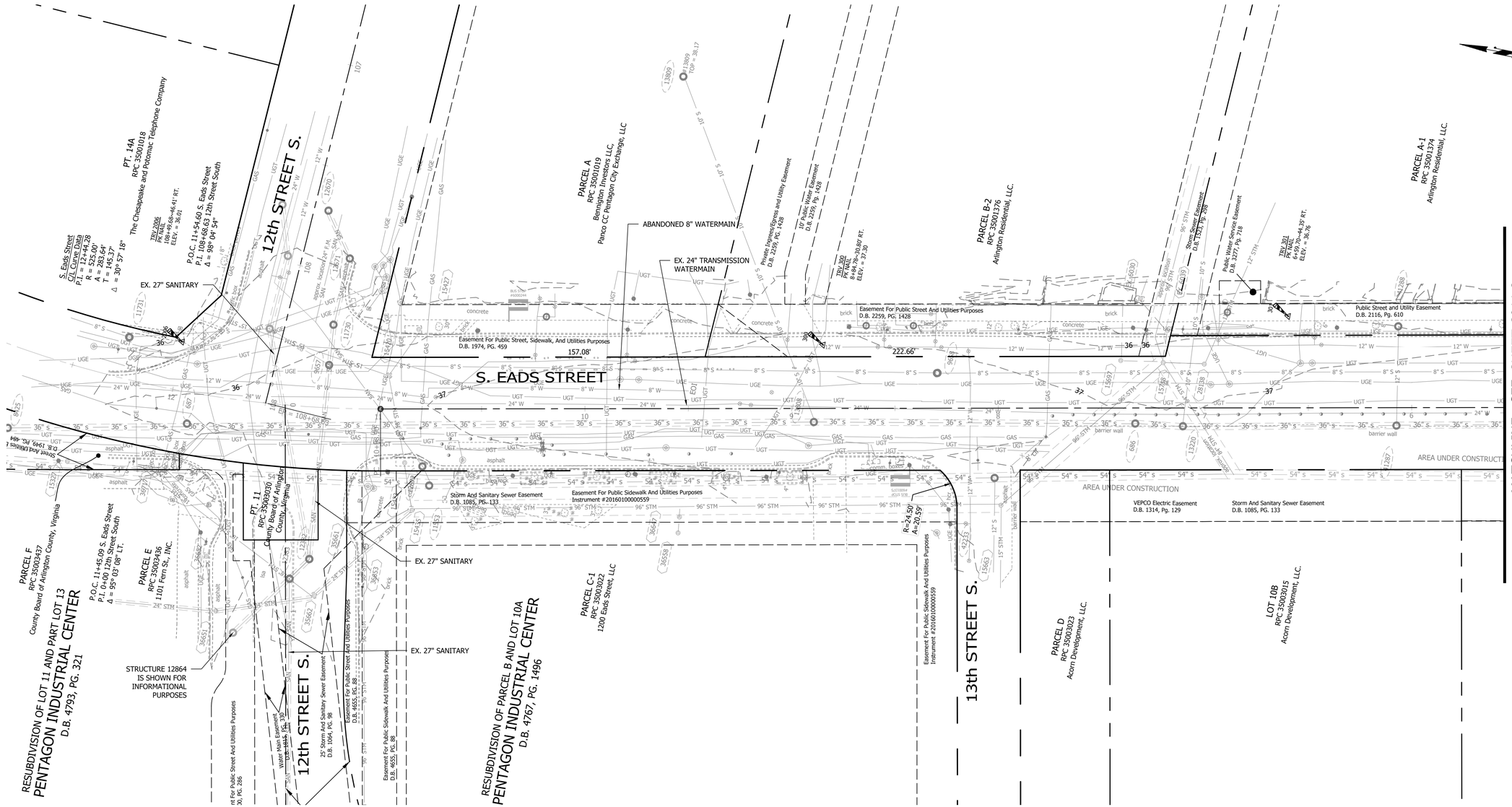
REVISED ON 01/03/2022



SANITARY SEWER

#684
TOP = 42.72
C/L INV. = 28.06

#685
TOP = 39.25
C/L INV. = 28.71

#686
TOP = 37.13
C/L INV. = 29.73

#687
TOP = 35.97
C/L INV. = 32.26

#8416
TOP = 45.47
C/L INV. = 34.54

#8425
TOP = 35.61
C/L INV. = 32.63

#8417
TOP = 40.51
C/L INV. = 28.07

#9657
TOP = 36.20
Structure not accessible

#9658
TOP = 37.50
C/L INV. = 20.50

#9659
TOP = 37.48
C/L INV. = 22.03

#9660
TOP = 38.74
C/L INV. 24.11

#9664
TOP = 40.33
C/L INV. = 28.38

#11551
TOP = 39.63
C/L INV. = 23.24
Shown from previous survey

#11553
TOP = 36.53
Unable to measure depth due to swift flow

#11595
TOP = 44.83
C/L INV. = 29.89

#11596
TOP = 45.94
C/L INV. = 30.01

#11731
TOP = 36.93
C/L INV. = 21.46

#12383
TOP = 36.15
C/L INV. 13.00

#12670
TOP = 34.66

#12671
TOP = 34.80
C/L INV. = 12.69
Calculated from record information

#12672
TOP = 36.43
C/L INV. = 26.34

#12959
TOP = 39.48
Structure could not be accessed (under barricade)

#13115
TOP = 43.99
C/L INV. = 30.23

#13116
TOP = 44.45
C/L INV. = 30.34

#13220
TOP = 37.10
C/L INV. = 29.70

#13808
TOP = 37.87
Structure could not be opened

#41262
TOP = 39.34
C/L INV. = 33.11

#41263
TOP = 40.91
C/L INV. = 31.46

#41264
TOP = 40.66
C/L INV. = 30.81

#41287
TOP = 37.46
Structure could not be accessed (under barricade)

#41288
TOP = 37.21
C/L INV. = 33.09

#42174
TOP = 38.05
C/L INV. = 33.01

#42175
TOP = 40.11
C/L INV. = 31.23

#42233
TOP = 37.22
C/L INV. = 25.67

STORM SEWER

#EX. 6036
GRATE TOP = 36.87
15" RCP INV. OUT = 31.63 (EX. 6039)

#EX. 6039
TOP = 36.27
15" RCP INV. IN = 28.94 (EX. 6036)
15" RCP INV. OUT = 25.84 (15718)

EX #14516
TOP = 45.68
21" RCP INV. IN = 36.47 (16252)
21" RCP INV. OUT = 36.06 (16268)

#15327
TOP = 35.96
18" RCP INV. IN = 20.52 (15191)
18" RCP INV. OUT = 20.47 (36717)

#15420
TOP = 36.53
15" RCP INV. IN = 32.68 (15427)
15" RCP INV. IN = 33.38 (NORTH)
15" RCP INV. OUT = 24.63 (15435)

#15423
TOP = 36.45
15" RCP INV. OUT = 33.56 (15435)

#15427
TOP = 36.48
15" RCP INV. OUT = 32.80 (15420)

#15435
TOP = 36.67
24" RCP INV. IN = 29.17 (35662)
15" RCP INV. IN = 33.32 (15423)
96" RCP INV. IN = 15.02 (35661)
96" RCP INV. OUT = 14.92 (36648)

#15663
TOP = 37.21
C/L INV. = 14.03

#15697
TOP = 36.49
15" RCP INV. IN = 31.70 (15692)
18" RCP INV. OUT = 31.56 (15718)
Calculated from existing record information

#15718
TOP = 36.53
C/L INV. = 13.60

#16230
TOP = 42.13
30" RCP INV. IN = 20.12 (16268)
30" RCP INV. OUT = 19.14 (16234)

#16252
TOP = 45.45
21" RCP INV. OUT = 37.49 (EX.14516)

#16262
TOP = 40.34
84" RCP INV. IN = 18.28 (16309)
36" RCP INV. IN = 26.92 (16388)
84" RCP INV. OUT = 18.26 (16234)

#16268
TOP = 43.07
30" RCP INV. IN = 25.21 (16339)
21" RCP INV. IN = 34.54 (14516)
30" RCP INV. OUT = 25.13 (16230)

#16339
TOP = 41.11
18" RCP INV. IN = 36.33 (16340)
24" RCP INV. IN = 35.39 (16344)
30" RCP INV. OUT = 26.34 (16230)

#16340
TOP = 41.83
18" RCP INV. IN = 37.28 (16351)
18" RCP INV. OUT = 37.21 (16339)

#16344
TOP = 41.37
18" RCP INV. IN = 36.71 (16364)
24" RCP INV. OUT = 36.22 (16339)

#16351
GRATE TOP = 44.09
18" RCP INV. OUT = 39.94

#16364
TOP = 41.73
18" RCP INV. IN = 37.23 (16411)
15" RCP INV. IN = 37.23 (28150)
18" RCP INV. OUT = 37.13 (16344)

#16388
TOP = 41.96
18" RCP INV. IN = 28.88 (28100)
33" RCP INV. IN = 27.69 (16502)
15" RCP INV. IN = 32.01 (16417)
36" RCP INV. OUT = 27.50 (16262)

#16411
TOP = 43.49
18" RCP INV. IN = 37.99 (16419)
18" RCP INV. OUT = 37.91 (16364)

#16417
TOP = 42.72
15" RCP INV. OUT = 36.29 (16388)

#16419
TOP = 42.49
18" RCP INV. IN = 38.19 (16468)
18" RCP INV. OUT = 38.12 (16411)

#16468
TOP = 43.02
18" RCP INV. IN = 38.90 (16514)
10" PVC INV. IN = 39.32 (EAST)
18" RCP INV. OUT = 38.82 (16419)

#25024
TOP = 40.61
18" RCP INV. IN = 31.96 (25025)
18" RCP INV. IN = 31.72 (
18" RCP INV. OUT = 31.43 (16234)

#25025
TOP = 40.25
15" RCP INV. IN = 32.61 (25026)
18" RCP INV. OUT = 32.15 (25024)

#25026
TOP = 39.93 (STRUCTURE HAS 2 TOPS)
12" RCP INV. IN = 32.21 (28141)
60" CMP INV. IN = 32.32 (28144)
15" RCP INV. OUT = 32.19 (25025)

#28100
TOP = 41.69
18" RCP INV. IN = 29.71 (02-848)
18" RCP INV. OUT = 29.64 (16388)

#28138
TOP = 36.52
12" RCP INV. IN = 23.88 (28137)
12" RCP INV. OUT = 23.78 (15718)

#28140
GRATE TOP = 38.94
12" RCP INV. OUT = 36.53 (28141)

#28141
TOP = 39.61
C/L INV. = 35.59

#28150
TOP = 42.06
15" RCP INV. OUT = 37.46 (16364)

#35661
TOP = 36.37
15" RCP INV. IN = 29.72 (36653)
96" RCP INV. IN = 15.20 (15459)
96" RCP INV. OUT = 15.10 (15435)

#35662
TOP = 36.11
24" RCP INV. IN = 18.56 (36651)
18" RCP INV. IN = 18.55 (36717)
24" RCP INV. OUT = 18.44 (15435)

#36647
TOP = 37.54
C/L INV. = 18.09
Structure ties directly into existing 96" RCP

#36651
TOP = 35.80
24" RCP INV. IN = 22.97 (36657)
15" RCP INV. IN = 31.40 (36652)
24" RCP INV. OUT = 22.92 (35662)

#36652
TOP = 35.95
15" RCP INV. OUT = 31.85 (36651)

#36653
TOP = 35.78
15" RCP INV. OUT = 29.50 (35661)

#36658
TOP = 37.99
Structure is locked

#36717
TOP = 36.40
18" RCP INV. IN = 19.96 (15327)
18" RCP INV. OUT = 19.74 (35662)

CONTROL:

PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
2004	7000531.3600	11895171.5060	30.49	TRV NAIL
2005	7000542.4124	11894888.8034	32.21	TRV NAIL
2006	7000643.5168	11894581.8268	36.00	TRV NAIL
300	7000338.8754	11894639.5205	37.30	TRV PK NAIL
301	7000120.5905	11894696.0650	36.77	TRV PK NAIL
302	6999899.8720	11894736.9936	38.11	TRV PIPE & CAP
303	6999611.1289	11894789.8047	40.09	TRV SPIKE NAIL
304	6999453.2002	11894830.2717	41.70	TRV PK NAIL
350	6999537.1259	11894969.1923	47.37	TRV PK NAIL
351	6999393.7096	11894978.6712	42.10	TRV PK NAIL
352	6999470.5688	11895144.7637	45.83	TRV CHIS X

NOTES:

1. CONTROL FOR THIS PROJECT WAS BASED ON ARLINGTON COUNTY PROJECT MA13.
2. ALL OTHER CONTROL ESTABLISHED BY TRADITIONAL TRAVERSE AND DIFFERENTIAL LEVELING.
3. UNDERGROUND UTILITIES WERE DESIGNATED BY MID0ATLANTIC UTILITY LOCATED (MAUL) ON 09/29/2020 AND LOCATED BY ARLINGTON COUNTY SURVEYORS ON 10/05/2020. PORTIONS WERE RE-MARKED BY MAUL AND RE-LOCATED BY ARLINGTON COUNTY SURVEYORS ON 10/13/2020. "EOI" DENOTES 'END OF INFORMATION'; AN AREA WHERE THE DESIGNATOR WAS NO LONGER ABLE TO TRACE A UTILITY LINE.
4. WATERLINE AND SANITARY SEWER LINES ARE SHOWN PER ARLINGTON COUNTY RECORDS.

COMMONWEALTH OF VIRGINIA
JOSHUA M. BROCK
Lic. No. 3122
LAND SURVEYOR

GENERAL SURVEY NOTES:

1. THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF THE COUNTY SURVEY SECTION FROM AN ACTUAL GROUND SURVEY; THE IMAGE AND/OR ORIGINAL DATA WAS OBTAINED FROM 09/2020 TO 12/2020; AND THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
2. HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983 - NORTH ZONE.
3. VERTICAL DATUM: NORTH AMERICA VERTICAL DATUM 1988.
4. CONTOUR INTERVAL: 1'
5. BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A FIELD RUN BOUNDARY SURVEY.

ARLINGTON
VIRGINIA
DEPARTMENT OF
ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
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ARLINGTON, VA 22201
PHONE: 703.228.3629
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9/6/2023
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CONSTRUCTION MANAGEMENT SUPERVISOR	
	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

EXISTING CONDITIONS PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 25 50
GRAPHIC SCALE

C011.1

FILENAME: CC23-214-EXISTING_CONDITIONS.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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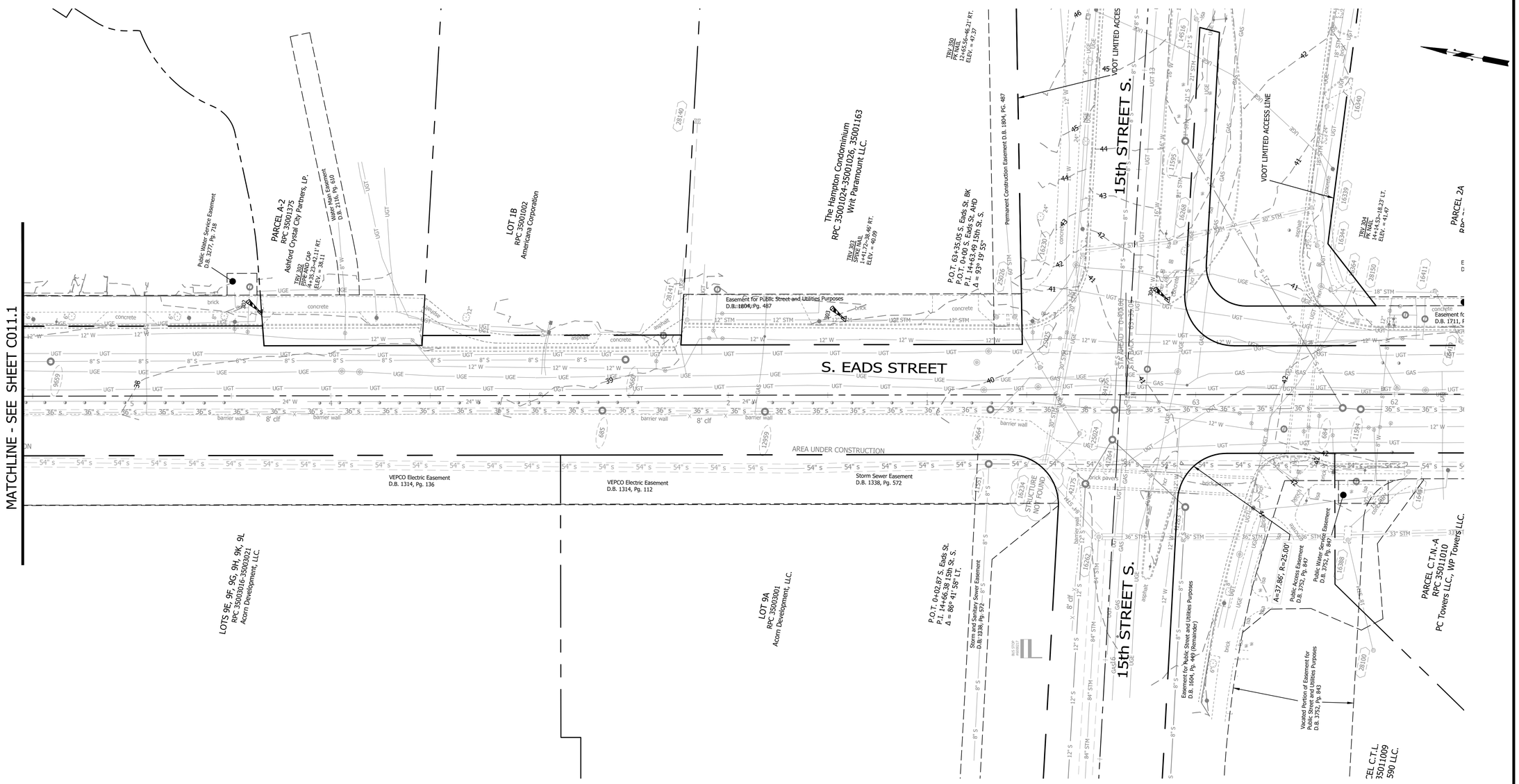
REVISED ON 01/03/2022



SANITARY SEWER

#684
TOP = 42.72
C/L INV. = 28.06

#685
TOP = 39.25
C/L INV. = 28.71

#686
TOP = 37.13
C/L INV. = 29.73

#687
TOP = 35.97
C/L INV. = 32.26

#8416
TOP = 45.47
C/L INV. = 34.54

#8425
TOP = 35.61
C/L INV. = 32.63

#8417
TOP = 40.51
C/L INV. = 28.07

#9657
TOP = 36.20
Structure not accessible

#9658
TOP = 37.50
C/L INV. = 20.50

#9659
TOP = 37.48
C/L INV. = 22.03

#9660
TOP = 38.74
C/L INV. 24.11

#9664
TOP = 40.33
C/L INV. = 28.38

#11551
TOP = 39.63
C/L INV. = 23.24
Shown from
previous survey

#11553
TOP = 36.53
Unable to measure depth
due to swift flow

#11595
TOP = 44.83
C/L INV. = 29.89

#11596
TOP = 45.94
C/L INV. = 30.01

#11731
TOP = 36.93
C/L INV. = 21.46

#12383
TOP = 36.15
C/L INV. 13.00

#12670
TOP = 34.66

#12671
TOP = 34.80
C/L INV. = 12.69
Calculated from
record information

#12672
TOP = 36.43
C/L INV. = 26.34

#12959
TOP = 39.48
Structure could
not be accessed
(under barricade)

#13115
TOP = 43.99
C/L INV. = 30.23

#13116
TOP = 44.45
C/L INV. = 30.34

#13220
TOP = 37.10
C/L INV. = 29.70

#13808
TOP = 37.87
Structure could
not be opened

#14262
TOP = 39.34
C/L INV. = 33.11

#14263
TOP = 40.91
C/L INV. = 31.46

#14264
TOP = 40.66
C/L INV. = 30.81

#14287
TOP = 37.46
Structure could
not be accessed
(under barricade)

#14288
TOP = 37.21
C/L INV. = 33.09

#4174
TOP = 38.05
C/L INV. = 33.01

#4175
TOP = 40.11
C/L INV. = 31.23

#4233
TOP = 37.22
C/L INV. = 25.67

STORM SEWER

#EX. 6036
GRATE TOP = 36.87
15" RCP INV. OUT = 31.63 (EX. 6039)

#EX. 6039
TOP = 36.27
15" RCP INV. IN = 28.94 (EX. 6036)
15" RCP INV. OUT = 25.84 (15718)

EX #14516
TOP = 45.68
21" RCP INV. IN = 36.47 (16252)
21" RCP INV. OUT = 36.06 (16268)

#15327
TOP = 35.96
18" RCP INV. IN = 20.52 (15191)
18" RCP INV. OUT = 20.47 (36717)

#15420
TOP = 36.53
15" RCP INV. IN = 32.68 (15427)
15" RCP INV. IN = 33.38 (NORTH)
15" RCP INV. OUT = 24.63 (15435)

#15423
TOP = 36.45
15" RCP INV. OUT = 33.56 (15435)

#15427
TOP = 36.48
15" RCP INV. OUT = 32.80 (15420)

#15435
TOP = 36.67
24" RCP INV. IN = 29.17 (35662)
15" RCP INV. IN = 33.32 (15423)
96" RCP INV. IN = 15.02 (35661)
96" RCP INV. OUT = 14.92 (36648)

#15663
TOP = 37.21
C/L INV. = 14.03

#15697
TOP = 36.49
15" RCP INV. IN = 31.70 (15692)
18" RCP INV. OUT = 31.56 (15718)
Calculated from existing record
information

#15718
TOP = 36.53
C/L INV. = 13.60

#16230
TOP = 42.13
30" RCP INV. IN = 20.12 (16268)
30" RCP INV. OUT = 19.14 (16234)

#16252
TOP = 45.45
21" RCP INV. OUT = 37.49 (EX.14516)

#16262
TOP = 40.34
84" RCP INV. IN = 18.28 (16309)
36" RCP INV. IN = 26.92 (16388)
84" RCP INV. OUT = 18.26 (16234)

#16268
TOP = 43.07
30" RCP INV. IN = 25.21 (16339)
21" RCP INV. IN = 34.54 (14516)
30" RCP INV. OUT = 25.13 (16230)

#16339
TOP = 41.11
18" RCP INV. IN = 36.33 (16340)
24" RCP INV. IN = 35.39 (16344)
30" RCP INV. OUT = 26.34 (16230)

#16340
TOP = 41.83
18" RCP INV. IN = 37.28 (16351)
18" RCP INV. OUT = 37.21 (16339)

#16344
TOP = 41.37
18" RCP INV. IN = 36.71 (16364)
24" RCP INV. OUT = 36.22 (16339)

#16351
GRATE TOP = 44.09
18" RCP INV. OUT = 39.94

#16364
TOP = 41.73
18" RCP INV. IN = 37.23 (16411)
15" RCP INV. IN = 37.23 (28150)
18" RCP INV. OUT = 37.13 (16344)

#16388
TOP = 41.96
18" RCP INV. IN = 28.88 (28100)
33" RCP INV. IN = 27.69 (16502)
15" RCP INV. IN = 32.01 (16417)
36" RCP INV. OUT = 27.50 (16262)

#16411
TOP = 43.49
18" RCP INV. IN = 37.99 (16419)
18" RCP INV. OUT = 37.91 (16364)

#16417
TOP = 42.72
15" RCP INV. OUT = 36.29 (16388)

#16419
TOP = 42.49
18" RCP INV. IN = 38.19 (16468)
18" RCP INV. OUT = 38.12 (16411)

#16468
TOP = 43.02
18" RCP INV. IN = 38.90 (16514)
10" PVC INV. IN = 39.32 (EAST)
18" RCP INV. OUT = 38.82 (16419)

#25024
TOP = 40.61
18" RCP INV. IN = 31.96 (25025)
18" RCP INV. IN = 31.72 (
18" RCP INV. OUT = 31.43 (16234)

#25025
TOP = 40.25
15" RCP INV. IN = 32.61 (25026)
18" RCP INV. OUT = 32.15 (25024)

#25026
TOP = 39.93 (STRUCTURE HAS 2 TOPS)
12" RCP INV. IN = 32.21 (28141)
60" CMP INV. IN = 32.32 (28144)
15" RCP INV. OUT = 32.19 (25025)

#28100
TOP = 41.69
18" RCP INV. IN = 29.71 (02-848)
18" RCP INV. OUT = 29.64 (16388)

#28138
TOP = 36.52
12" RCP INV. IN = 23.88 (28137)
12" RCP INV. OUT = 23.78 (15718)

#28140
GRATE TOP = 38.94
12" RCP INV. OUT = 36.53 (28141)

#28141
TOP = 39.61
C/L INV. = 35.59

#28150
TOP = 42.06
15" RCP INV. OUT = 37.46 (16364)

#35661
TOP = 36.37
15" RCP INV. IN = 29.72 (36653)
96" RCP INV. IN = 15.20 (15459)
96" RCP INV. OUT = 15.10 (15435)

#35662
TOP = 36.11
24" RCP INV. IN = 18.56 (36651)
18" RCP INV. IN = 18.55 (36717)
24" RCP INV. OUT = 18.44 (15435)

#36647
TOP = 37.54
C/L INV. = 18.09
Structure ties directly
into existing 96" RCP

#36651
TOP = 35.80
24" RCP INV. IN = 22.97 (36657)
15" RCP INV. IN = 31.40 (36652)
24" RCP INV. OUT = 22.92 (35662)

#36652
TOP = 35.95
15" RCP INV. OUT = 31.85 (36651)

#36653
TOP = 35.78
15" RCP INV. OUT = 29.50 (35661)

#36658
TOP = 37.99
Structure is locked

#36717
TOP = 36.40
18" RCP INV. IN = 19.96 (15327)
18" RCP INV. OUT = 19.74 (35662)

CONTROL:

PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
2004	7000531.3600	11895171.5060	30.49	TRV NAIL
2005	7000542.4124	11894888.8034	32.21	TRV NAIL
2006	7000643.5168	11894581.8268	36.00	TRV NAIL
300	7000338.8754	11894639.5205	37.30	TRV PK NAIL
301	7000120.5905	11894696.0650	36.77	TRV PK NAIL
302	6999899.8720	11894736.9936	38.11	TRV PIPE & CAP
303	6999611.1289	11894789.8047	40.09	TRV SPIKE NAIL
304	6999453.2002	11894830.2717	41.70	TRV PK NAIL
350	6999537.1259	11894969.1923	47.37	TRV PK NAIL
351	6999393.7096	11894978.6712	42.10	TRV PK NAIL
352	6999470.5688	11895144.7637	45.83	TRV CHIS X

NOTES:

1. CONTROL FOR THIS PROJECT WAS BASED ON ARLINGTON COUNTY PROJECT MA13.
2. ALL OTHER CONTROL ESTABLISHED BY TRADITIONAL TRAVERSE AND DIFFERENTIAL LEVELING.
3. UNDERGROUND UTILITIES WERE DESIGNATED BY MID0ATLANTIC UTILITY LOCATED (MAUL) ON 09/29/2020 AND LOCATED BY ARLINGTON COUNTY SURVEYORS ON 10/05/2020. PORTIONS WERE RE-MARKED BY MAUL AND RE-LOCATED BY ARLINGTON COUNTY SURVEYORS ON 10/13/2020. "EOI" DENOTES 'END OF INFORMATION'; AN AREA WHERE THE DESIGNATOR WAS NO LONGER ABLE TO TRACE A UTILITY LINE.
4. WATERLINE AND SANITARY SEWER LINES ARE SHOWN PER ARLINGTON COUNTY RECORDS.

COMMONWEALTH OF VIRGINIA
JOSHUA M. BROCK
Lic. No. 3122
LAND SURVEYOR

GENERAL SURVEY NOTES:

1. THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF THE COUNTY SURVEY SECTION FROM AN ACTUAL GROUND SURVEY; THE IMAGE AND/OR ORIGINAL DATA WAS OBTAINED FROM 09/2020 TO 12/2020; AND THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
2. HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983 - NORTH ZONE.
3. VERTICAL DATUM: NORTH AMERICA VERTICAL DATUM 1988.
4. CONTOUR INTERVAL: 1'
5. BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A FIELD RUN BOUNDARY SURVEY.

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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

EXISTING CONDITIONS PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:
0 25 50
GRAPHIC SCALE

C011.2

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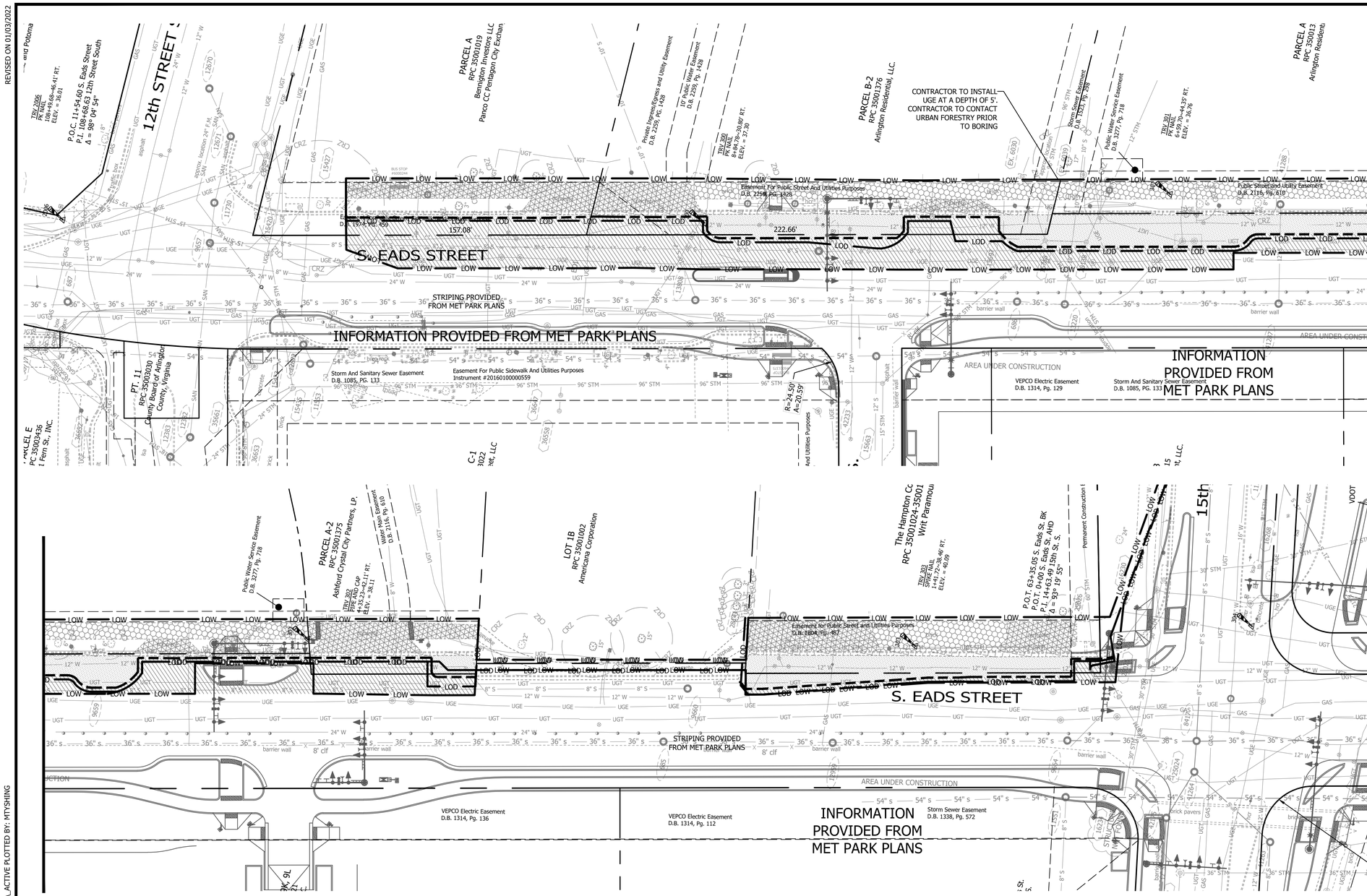

DEMOLITION KEY NOTES:

CAUTION: POTENTIAL UNDERGROUND UTILITY CONFLICT. THE PROVIDED TEST HOLE DATA IS APPROXIMATE, CONTRACTOR, TO FIELD VERIFY (TEST PIT) EXACT LOCATION AND DEPTH OF EXISTING UTILITY.

USE OF LARGE EQUIPMENT (HOE RAMS, VIBRATORY ROLLERS, ETC.) SHALL NOT BE PERMITTED WITHIN 5 FEET OF WMATA UNDERGROUND STRUCTURES WITHOUT PRIOR APPROVAL.

A. CONTRACTOR TO COORDINATE WITH ARLINGTON COUNTY FOR THE REMOVAL / DISPOSAL OF EXISTING STREETLIGHT POLE. DEMOLISH / DISPOSE OF THE REMAINING FOUNDATION AND ASSOCIATED FIXTURES. REFER TO SHEET C111.1-C111.1 FOR ADDITIONAL INFORMATION.

B. CONTRACTOR SHALL COORDINATE WITH DIRECTOR OF URBAN FORESTRY BEFORE DISTURBING AREA ADJACENT TO EXISTING TREES. REFER TO SHEET C091.1-C091.2 FOR ADDITIONAL INFORMATION.

DEMOLITION GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT EXISTING POLES, UTILITIES, TREES, STRUCTURES, FROM DAMAGE.
2. EXISTING UNDERGROUND UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL ADJUST ALL STRUCTURES TOP TO NEW GRADES PER ARLINGTON COUNTY DETAILS & SPECIFICATIONS AND IN COORDINATION WITH UTILITY OWNERS.
3. EXISTING STAND PIPE/FIRE HYDRANT TO REMAIN IN SERVICE. THE CONTRACTOR SHALL MAINTAIN UNIMPEDED ACCESS TO THE STAND PIPE/FIRE HYDRANT DURING CONSTRUCTION. THE CONTRACTOR SHALL ERECT SIGN(S) THAT CLEARLY IDENTIFY THE LOCATION OF THE STAND PIPE/FIRE HYDRANT.
4. EXISTING TREE PROTECTION SHALL COMPLY WITH E&S CONTROL PLAN.
5. EXISTING TRAFFIC SIGNALS SHALL BE PROTECTED DURING PROJECT CONSTRUCTION. EXISTING TRAFFIC SIGNAL POLES AND FOUNDATIONS SHALL BE REMOVED ONLY AFTER NEW INSTALLED TRAFFIC SIGNALS ACTIVATION PER SIGNAL TRAFFIC PLAN.
6. EXISTING STREET LIGHTS TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED. REMOVED STREETLIGHT POLES AND FIXTURES SHALL BE RETURNED TO ARLINGTON COUNTY. CONTACT ARLINGTON COUNTY DIVISION OF TRANSPORTATION AT 703-228-6570.
7. SIDEWALK PAVEMENT AND LANDSCAPING WITHIN PROPOSED AND REMOVED TRAFFIC SIGNAL STRUCTURES AND UTILITY CUTS SHALL BE RESTORED TO COMPLY WITH EXISTING CONDITIONS OR PROPOSED PAVEMENT/LANDSCAPING.
8. EXISTING STREET SIGNS REMOVAL, PAVEMENT MARKING ERADICATION AND RESTORATION SHALL BE PERFORMED PER PAVEMENT MARKING AND PERMANENT SIGNAGE PLAN, SEE SHEETS C101.1-C101.2
9. ALL CONSTRUCTION AND DEMOLITION DEBRIS WITHIN THE SHOWN LIMITS INCLUDING ASPHALT MILLING AND TRAFFIC SIGNAL RENOVATION SHALL BE REMOVED AND HAULED TO WASTE UNLESS OTHERWISE NOTED.
10. WHERE EXISTING PAVEMENT IS TO BE REMOVED WITHIN THE CRITICAL ROOT ZONE, LEAVE PAVEMENT IN PLACE AS LONG AS POSSIBLE DURING CONSTRUCTION. REMOVE PAVEMENT WITH THE ROLLBACK TECHNIQUE, KEEP EQUIPMENT ON PAVING, AND LIMIT OVERDIG. ONCE PAVEMENT HAS BEEN REMOVED, VEHICULAR TRAFFIC IS STRICTLY PROHIBITED UNTIL PAVING IS REPLACED. REPLACED PAVING SHOULD BE BRIDGED, TREE-FRIENDLY DETAIL WITH NO COMPACTION BEYOND 85%. COORDINATE WITH WITH THE URBAN FORESTER WHEN PROCESS OR CONSTRUCTION DETAILS CAN'T FOLLOW THIS SPECIFICATION. THIS NOTE DOES NOT APPLY TO ROADWAYS UNLESS SPECIFICALLY CALLED OUT ON PLAN.

LEGEND

- PAVEMENT CONCRETE SAWCUT
- DEMOLITION OBJECT
- FULL DEPTH ASPHALT REMOVAL
- MILL & OVERLAY
- CONCRETE REMOVAL
- CURB AND GUTTER REMOVAL
- BRICK REMOVAL

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COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
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CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis, PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

DEMOLITION PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

C021.1

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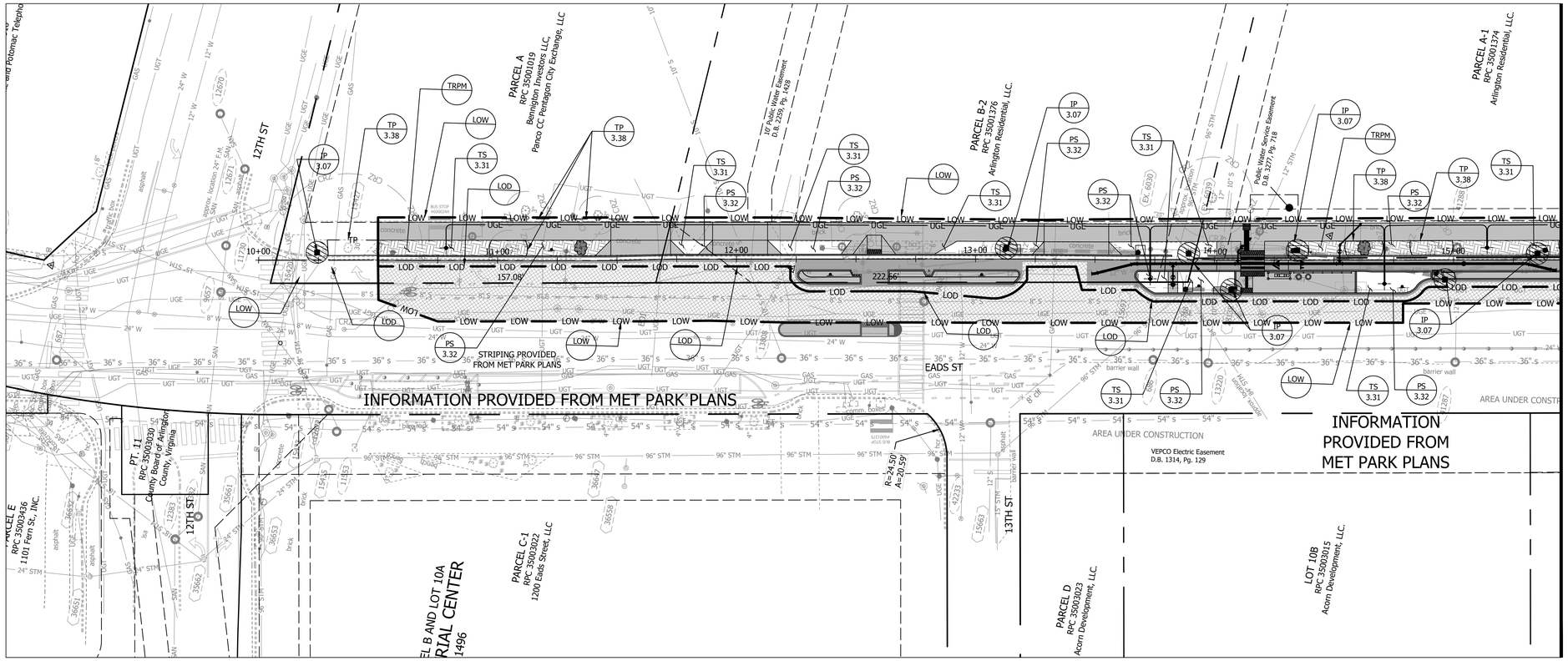

EROSION AND SEDIMENT CONTROL LEGEND

3.02	TEMPORARY CONSTRUCTION ENTRANCE	CE	
3.05	TEMPORARY SILT FENCE	SF	SF
3.07	STORM DRAIN INLET PROTECTION	IP	
3.26	DEWATERING STRUCTURE	DS	
3.38	TREE PROTECTION	TP	TP
3.31	TEMPORARY SEEDING	TS	
3.32	PERMANENT SEEDING	PS	
	LIMITS OF DISTURBANCE		LOD
	LIMITS OF WORK		LOW
311300.7NS	TEMPORARY ROOT PROTECTION MATTING	TRPM	

CONTRACTOR TO COORDINATE WITH ARLINGTON COUNTY URBAN FORESTER BEFORE ALLOWING VEHICULAR CONSTRUCTION TRAFFIC IN TEMPORARY ROOT PROTECTION MATTING AREAS. STORAGE OF CONSTRUCTION MATERIALS IS PROHIBITED WITHIN TEMPORARY ROOT PROTECTION MATTING AREAS.

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SCALE:
0 25 50
GRAPHIC SCALE

C031.1

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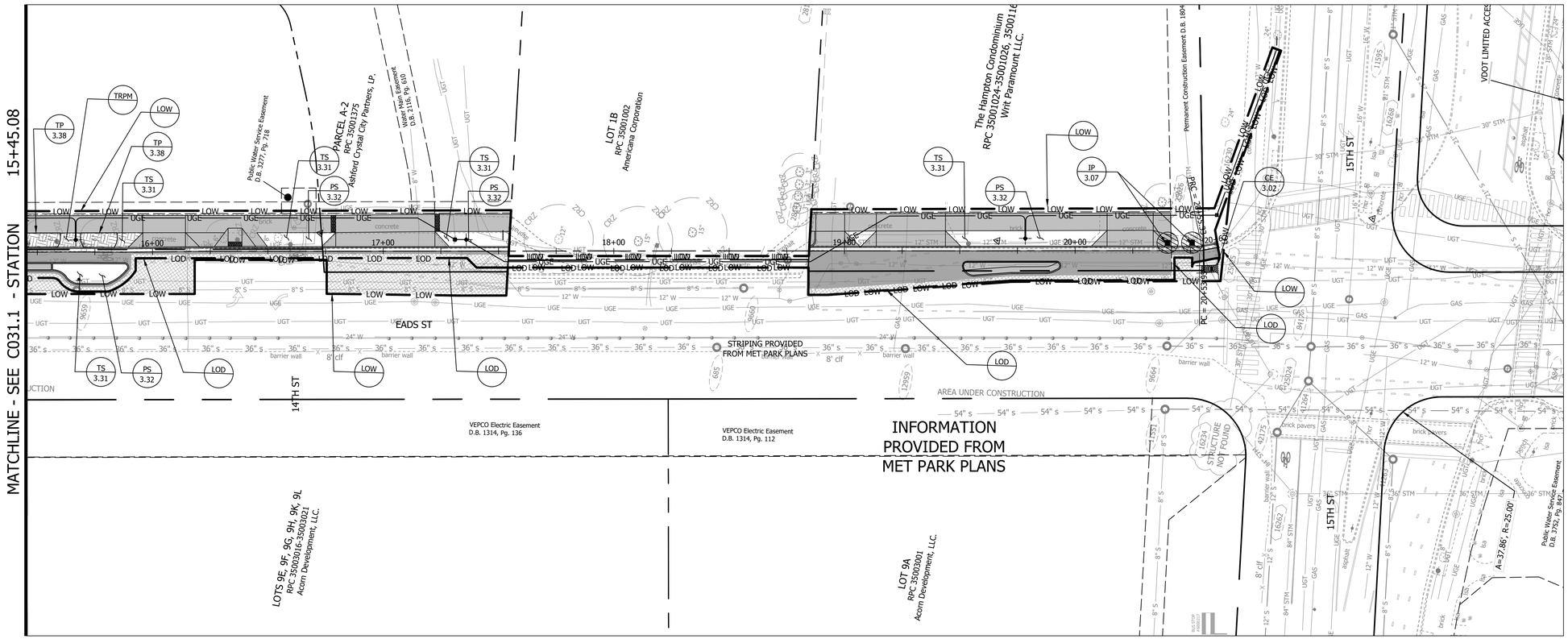

EROSION AND SEDIMENT CONTROL LEGEND

3.02	TEMPORARY CONSTRUCTION ENTRANCE	CE	
3.05	TEMPORARY SILT FENCE	SF	SF
3.07	STORM DRAIN INLET PROTECTION	IP	
3.26	DEWATERING STRUCTURE	DS	
3.38	TREE PROTECTION	TP	TP

3.31	TEMPORARY SEEDING	TS	
3.32	PERMANENT SEEDING	PS	
	LIMITS OF DISTURBANCE		LOD
	LIMITS OF WORK		LOW

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GRAPHIC SCALE

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EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:
THIS PROJECT IS THE IMPROVEMENT OF CYCLIST AND PEDESTRIAN FLOW AND IS LOCATED ALONG SOUTH EADS STREET BETWEEN 15TH STREET SOUTH AND 12TH STREET SOUTH. THE PURPOSE OF THE LAND DISTURBING ACTIVITY IS TO CREATE A PHYSICALLY SEPARATED PROTECTED BICYCLE LANE ALONG THE EAST SIDE OF SOUTH EADS STREET. ADDITIONAL IMPROVEMENTS WILL INCLUDE STREETLIGHT, STORM SEWER, CURB RAMPS, AND SIDEWALK.

EXISTING SITE CONDITIONS:
THIS PROJECT IS LOCATED ALONG THE EAST SIDE OF SOUTH EADS STREET BETWEEN 15TH STREET SOUTH AND 12TH STREET SOUTH. SOUTH EADS STREET IS A SINGLE LANE ROAD WITH UNPROTECTED CYCLE LANES AND A SHARED TURNING LANE DIVIDING TRAFFIC.

ADJACENT PROPERTIES:
EAST-THE AREA TO THE EAST OF THE PROJECT CONSISTS OF MULTI-STORY RESIDENTIAL AND COMMERCIAL BUILDINGS.
WEST- THE AREA TO THE WEST OF THE PROJECT CONSISTS OF COMMERCIAL BUILDINGS AND NEW CONSTRUCTION.
NORTH- THE AREA TO THE NORTH OF THE PROJECT CONSISTS OF 12TH STREET.
SOUTH- THE AREA TO THE SOUTH OF THE PROJECT CONSIST OF 15TH STREET.

OFF-SITE AREAS:
THE EXTENT OF OFFSITE CONSTRUCTION IS LIMITED TO CONNECTING TO PROPOSED IMPROVEMENTS TO THE EXISTING STREETS, AND CONNECTING PROPOSED UTILITIES TO EXISTING UTILITIES. CONTRACTOR STAGING AREA WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.

CRITICAL AREAS:
THERE ARE NO STEEP SLOPES OR CRITICAL AREAS LOCATED WITHIN THE LIMITS OF DISTURBANCE. (REVISE IF NEEDED)

EROSION AND SEDIMENT CONTROL MEASURES:
THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA INCLUDE SAFETY FENCE AND INLET PROTECTION. INLET PROTECTION IS REQUIRED OUTSIDE THE PROJECT LIMITS WHEN/WHERE WATER FROM DISTURBED AREA FLOWS. (REVISE AS NEEDED)

PERMANENT STABILIZATION:
ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH GRASS, MULCH OR SOD. SEE THE PROPOSED PLANS FOR ADDITIONAL INFORMATION.

STORMWATER RUNOFF CONSIDERATIONS:
NO ADDITIONAL IMPERVIOUS AREA WILL BE ADDED TO THIS PROJECT.

TOTAL LAND DISTURBANCE......................= 25,001 SF (0.57 ACRES)
PRE-IMPROVEMENT IMPERVIOUS AREA.....= 21,538 SF (0.49 ACRES)
POST-IMPROVEMENT IMPERVIOUS AREA...= 21,105 SF (0.48 ACRES)
DECREASED IMPERVIOUS AREA.................= 433 SF (0.01 ACRES)

SOILS INFORMATION:
THE FOLLOWING SOILS ARE FOUND ON SITE (SEE SOILS MAP ON SHEET C032.4 FOR LOCATION)

SOIL#:	SOIL NAME:	HYDROLOGIC GROUP:	ERODABILITY:
12	URBAN LAND-UDORTHENTS	VARIES	N/A

FLOODPLAIN AND RESOURCE PROTECTION AREA (RPA):
THERE ARE NO FLOODPLAIN OR RESOURCE PROTECTION AREAS LOCATED WITHIN THIS PROJECT SITE

EROSION & SEDIMENT CONTROL PROJECT PHASING

1. PHASE I:

a. PRE-CONSTRUCTION MEETING WITH THE PROJECT OFFICER, CONTRACTOR, AND COUNTY INSPECTOR.
b. INSTALL THE TEMPORARY CONSTRUCTION ENTRANCE (IF NEEDED) IN THE LOCATION SHOWN ON THE E&S PHASE I PLAN. MUD AND DEBRIS SHALL BE WASHED FROM ALL TRUCKS EXISTING THE SITE.
c. INSTALL PERIMETER TREE DEMARCATION FENCING IN THE FORM OF TREE PROTECTION FENCE (TP) AS SHOWN ON E&S PHASE I PLAN.
d. PERFORM INITIAL PERIMETER CLEARING TO INSTALL REMAINDER OF PERIMETER CONTROLS SUCH AS DIVERSION DIKE (DD), SILT FENCE (SF), AND SUPER SILT FENCE (SSF) AS PER THE PHASE I PLAN.
e. SEED AND MULCH ALL EARTHEN CONTROLS.
f. CONTACT ARLINGTON COUNTY PROJECT OFFICER FOR A PERIMETER INSPECTION PRIOR TO CLEARING THE REMAINDER OF THE SITE IN ORDER TO OBTAIN PHASE II GRADING PERMIT.
g. CLEAR THE SITE TO THE LIMITS AS SHOWN ON THE CONSTRUCTION PLANS.

2. PHASE II:

a. BEGIN UTILITY CONSTRUCTION, INSTALL ALL UTILITIES UNDERGROUND UTILITIES AND BEGIN SITE GRADING.
b. INLET PROTECTION (IP) SHALL BE PROVIDED AT STORM DRAIN INLETS AS THEY ARE CONSTRUCTED.
c. ONCE THE SITE IS BROUGHT TO NEAR FINAL GRADE, AND THE UTILITY CONSTRUCTION IS COMPLETE, COMMENCE CONSTRUCTION OF CURB & GUTTER, STREET, SIDEWALKS, AND OTHER IMPROVEMENTS
d. 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
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE ARLINGTON COUNTY EROSION AND SEDIMENT CONTROL ORDINANCE. THE MINIMUM STANDARDS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE.

1. STRUCTURAL PRACTICES

a. TEMPORARY CONSTRUCTION ENTRANCE - VESCH 3.02

a.a. A TEMPORARY CONSTRUCTION ENTRANCE WITH A WASH RACK SHALL BE INSTALLED AT THE EXISTING ACCESS POINT TO THE SITE. DURING MUDDY CONDITIONS, DRIVERS OF CONSTRUCTION VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE RE-ENTERING THE LOCAL ROADWAYS.
a.b. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC WASHING OF THE MATS AND/OR REPLACEMENT OF WOOD CHIPS AS NECESSARY.
a.c. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
a.d. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED INTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

b. SILT FENCE - VESCH 3.05

b.a. SILT FENCE WILL BE INSTALLED WITH THE E&S PLAN TO FILTER RUNOFF FROM DISTURBED AREAS. RUNOFF SHALL NOT BE DIRECTED PARALLEL TO THE INSTALLATION OF SILT FENCE.
b.b. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
b.c. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM UNDERCUTTING.
b.d. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
b.e. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
b.f. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, THEN PREPARED AND SEEDED.

c. STORM DRAIN INLET PROTECTION - VESCH 3.07

c.a. ALL EXISTING & PROPOSED STORM SEWER INLETS IN AND AROUND THE PROJECT LIMITS SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT-LADEN WATER SHALL BE FILTERED BEFORE ENTERING THE STORM SEWER INLETS.
c.b. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE AS NECESSARY.
c.c. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

d. DEWATERING STRUCTURE - VESCH 3.26

d.a. SEDIMENT LADEN OR TURBID WATER SHALL BE FILTERED, SETTLED OR SIMILARLY TREATED PRIOR TO DISCHARGE.
d.b. THE FILTERING DEVICES MUST BE INSPECTED FREQUENTLY AND REPAIRED OR REPLACED ONCE THE SEDIMENT BUILD-UP PREVENTS THE STRUCTURE FROM FUNCTIONING AS DESIGNED.
d.c. THE ACCUMULATED SEDIMENT WHICH IS REMOVED FROM A DEWATERING DEVICE MUST BE SPREAD ON-SITE AND STABILIZED OR DISPOSED OF AT AN APPROVED DISPOSAL SITE AS PER THE APPROVED PLAN.

e. TREE PROTECTION - VESCH 3.38

e.a. ALL TREES ARE TO BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE COUNTY INSPECTOR AND URBAN FORESTER. THE COUNTY'S URBAN FORESTER (703-228-1863) SHALL INSPECT ALL TREE PROTECTION 72 HOURS PRIOR TO THE START OF CONSTRUCTION. IN SPITE OF PRECAUTIONS, SOME DAMAGE TO PROTECTED TREES MAY OCCUR. IN SUCH CASES, THE FOLLOWING MAINTENANCE GUIDELINES SHALL BE FOLLOWED:
e.a.a. SOIL AERATION: IF THE SOIL HAS BECOME COMPACTED OVER THE ROOT ZONE OF ANY TREE, THE GROUND SHALL BE AERATED BY PUNCHING HOLES WITH AN IRON BAR. THE BAR SHALL BE DRIVEN 1-FOOT DEEP AND THEN MOVED BACK AND FORTH UNTIL THE SOIL IS LOOSENED. THIS PROCEDURE SHALL BE REPEATED EVERY 18 INCHES UNTIL ALL OF THE COMPACTED SOIL BENEATH THE CROWN OF THE TREE HAS BEEN LOOSENED.
e.a.b. REPAIR OF DAMAGE:
e.a.A.a. ANY DAMAGE TO THE CROWN, TRUNK, OR ROOT SYSTEM OF ANY TREE RETAINED ON THE SITE SHALL BE REPAIRED IMMEDIATELY.
e.a.A.b. WHENEVER MAJOR ROOT OR BARK DAMAGE OCCURS, REMOVE SOME FOLIAGE TO REDUCE THE DEMAND FOR WATER AND NUTRIENTS.
e.a.A.c. DAMAGED ROOTS SHALL IMMEDIATELY BE CUT OFF CLEANLY INSIDE THE EXPOSED OR DAMAGED AREA. CUT SURFACES SHALL BE PAINTED WITH APPROVED TREE PAINT, AND MOIST PEAT MOSS, BURLAP, OR TOPSOIL SHALL BE SPREAD OVER THE EXPOSED AREA.
e.a.A.d. TO TREAT BARK DAMAGE, CAREFULLY CUT AWAY ALL LOOSENED BARK BACK INTO THE UNDAMAGED AREA, TAPER THE CUT AT THE TOP AND BOTTOM, AND PROVIDE DRAINAGE AT THE BASE OF THE WOUND.
e.a.A.e. ALL TREE LIMBS DAMAGED DURING CONSTRUCTION OR REMOVED FOR ANY OTHER REASON SHALL BE CUT OFF ABOVE THE COLLAR AT THE PRECEDING BRANCH JUNCTION.
e.a.A.f. CARE FOR SERIOUS INJURIES SHALL BE PRESCRIBED BY A FORESTER OR A TREE SPECIALIST.
e.b. FERTILIZATION: BROADLEAF TREES THAT HAVE BEEN STRESSED OR DAMAGED SHALL RECEIVE A HEAVY APPLICATION OF FERTILIZER TO AID THEIR RECOVERY.
e.b.a. TREES SHALL BE FERTILIZED IN THE LATE FALL (AFTER OCTOBER 1) OR THE EARLY SPRING (FROM THE TIME FROST IS OUT OF THE GROUND UNTIL MAY 1). FALL APPLICATIONS ARE PREFERRED, AS THE NUTRIENTS WILL BE MADE AVAILABLE OVER A LONGER PERIOD OF TIME.
e.b.b. FERTILIZER SHALL BE APPLIED TO THE SOIL OVER THE FEEDER ROOTS. IN NO CASE SHALL IT BE APPLIED CLOSER THAN 3 FEET TO THE TRUNK. THE ROOT SYSTEM OF CONIFERS EXTENDS SOME DISTANCE BEYOND THE DRIP LINE. INCREASE THE AREA TO BE FERTILIZED BY ONE FOURTH THE AREA OF THE CROWN.
e.b.c. FERTILIZER SHALL BE APPLIED USING APPROVED FERTILIZATION METHODS AND EQUIPMENT.
e.b.d. FORMULATIONS AND APPLICATION RATES SHALL CONFORM TO THE GUIDELINES GIVEN IN TABLE 3.38-A OF VESCH.

2. VEGETATIVE PRACTICES

a. TOPSOILING (STOCKPILE) - VESCH 3.30

a.a. TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS MAY HAVE TO BE LOCATED OFF-SITE AND ARE TO BE STABILIZED WITH TEMPORARY VEGETATION. PRIOR TO LAND-DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY E&S PLAN (IF THE STOCKPILE IS LOCATED OFF-SITE). THIS SUPPLEMENTAL PLAN WOULD HAVE TO BE APPROVED BY THE PLAN APPROVING AUTHORITY BEFORE ANY OFF-SITE ACTIVITY COMMENCES.

b. TEMPORARY SEEDING - VESCH 3.31

b.a. ALL DENUDED AREAS, WHICH WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED.
b.b. SEE SHEET III-288 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) FOR ALLOWABLE PLANTING MATERIAL, SEEDING RATES, AND DATES. THE PLANTING REQUIREMENTS OF THE "SOUTH" SHALL BE FOLLOWED. LIMING SHALL BE BASED ON TABLE 3.31-A OF VESCH. FERTILIZERS SHALL BE APPLIED AS 600 LB/ACRE. THE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 2-4" OF SOIL. SEED SHALL BE EVENLY APPLIED AND SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5" DEEP. SEEDING MADE IN FALL FOR WINTER COVER AND DURING HOT SUMMER MONTHS SHALL BE MULCHED.

c. EROSION CONTROL BLANKET AND MULCHING - VESCH 3.36 AND 3.35

c.a. EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDED TO PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND TO ALLOW SEED TO GERMINATE PROPERLY. MULCH (STRAW OR FIBER) WILL BE USED ON RELATIVELY FLAT AREAS AND WILL BE APPLIED AS A SECOND STEP IN SEEDING OPERATION.

d. DUST CONTROL - VESCH 3.39

d.a. DUST SHALL BE CONTROLLED USING A VARIETY OF METHODS SUCH AS VEGETATIVE COVER, MULCH, TILLAGE, IRRIGATION, SPRAY-ON ADHESIVES, STONE BARRIERS, AND CALCIUM CHLORIDE. THE IMPLEMENTATION OF THE DUST CONTROL METHODS SHALL BE INSTALLED PER SECTION 3.39 OF VESCH

e. PERMANENT SEEDING - VESCH 3.32

e.a. SINCE THE SUBJECT SITE IS LOCATED WITHIN THE COASTAL PLAIN AREA OF VIRGINIA, SHEET III-304 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE FOLLOWED FOR FINAL SEEDING MATERIAL, SEEDING RATES, AND DATES OF APPLICATION.

THE EROSION AND SEDIMENT CONTROL INSPECTOR SHALL HAVE THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROLS AS NEEDED IN THE FIELD. IN ADDITION, NO SEDIMENT TRAPS OR BASINS MAY BE REMOVED WITHOUT PRIOR APPROVAL OF THE INSPECTOR.

EROSION AND SEDIMENT CONTROL MANAGEMENT MEASURES

LANDSCAPE / TREE PRESERVATION NOTES
PRIOR TO ANY LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL CONTACT THE ARLINGTON COUNTY ARBORIST TO SCHEDULE AN INSPECTION.

LAND CONSERVATION NOTES:
1. NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
3. ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 100 FEET ARE TO BE OPEN AT ANY ONE TIME.
4. ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 5 DAYS AFTER BACKFILLING.
5. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
6. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION.
7. ANY DISTURBED AREA NOT COVERED BY NOTE 1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON BY NOV. 1, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW MULCH AT THE RATE OF 2 TONS/ACRE AND OVER-SEEDED BY APRIL 15.
8. AT THE COMPLETION OF ANY PROJECT CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED.

EROSION & SEDIMENT CONTROL PROGRAM:
1. THE EROSION CONTROL PLAN IS INTENDED TO ESTABLISH ENTRANCES AND PERIMETER CONTROL MEASURES WHICH INCLUDES SILT FENCE (SF), INLET PROTECTION (IP), AND OTHER CONTROLS SPECIFIED ON THE PLANS.
2. WHERE CONSISTENT WITH JOB SAFETY REQUIREMENTS, ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. NO MATERIAL SHALL BE PLACED IN STREAMBEDS. ANY STOCKPILED MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN 7 DAYS SHALL BE SEEDED AND MULCHED. WHEN SPOIL IS PLACED ON THE DOWNHILL SIDE OF TRENCH, IT SHALL BE BACKSLOPED TO DRAIN TOWARD THE TRENCH. WHEN NECESSARY TO DEWATER THE TRENCH, THE PUMP DISCHARGE HOSE SHALL OUTLET IN A STABILIZED AREA OR A SEDIMENT TRAPPING DEVICE.
3. ALL PRACTICES AND CONTROL DEVICES DESCRIBED HEREIN SHALL CONFORM TO THE CURRENT VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH). IN ADDITION, THE CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO MINIMIZE THE VOLUME OF SILT:
   a. CONTRACTOR SHALL EVALUATE THE SITE TO DETERMINE EXTENSIVE CUT AND FILL AREAS, AND SHALL WORK THOSE AREAS TO MINIMIZE THE USE OF HEAVY EQUIPMENT. CONTRACTOR SHALL BRING DISTURBED AREAS TO GRADE (ROUGH OR FINISHED) AND STABILIZE THOSE AREAS WITH TEMPORARY OR PERMANENT VEGETATION. THESE DISTURBED AREAS SHALL BE STABILIZED PRIOR TO BEGINNING WORK IN ANOTHER AREA.
   b. FILL AREAS SHALL BE COMPACTED COMPLETELY PRIOR TO THE END OF EACH WORK DAY. FILL SLOPE SURFACES SHALL BE KEPT ROUGH TO REDUCE SHEET EROSION OF THE SLOPES. CONTRACTOR SHALL RE-DIRECT CONCENTRATED RUNOFF, BY EARTH BERMS OR OTHER DEVICES, AROUND ACTIVELY DISTURBED AREAS TO STABILIZED OUTLETS.
   c. CUT SLOPES SHALL BE PROTECTED FROM CONCENTRATED FLOW BY BERMS (ABOVE THE SLOPE) AND DIRECTED AROUND THE DISTURBED AREA TO STABILIZED OUTLETS.
4. MEASURES TO CONTROL EROSION AND SILTATION SHALL BE PROVIDED PURSUANT TO AND IN COMPLIANCE WITH CURRENT STATE AND LOCAL REGULATIONS. THE INFORMATION CONTAINED IN THE CONSTRUCTION PLANS AND/OR THE APPROVAL OF THE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OR HIS AGENT OF ANY LEGAL RESPONSIBILITY WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA AND CHAPTER 57 OF THE ARLINGTON COUNTY CODE.
5. ALL AREAS, ON OR OFF-SITE, THAT ARE DISTURBED BY THIS CONSTRUCTION AND WHICH ARE NOT PAVED OR BUILT UPON SHALL BE ADEQUATELY STABILIZED TO CONTROL EROSION AND SEDIMENTATION. ACCEPTABLE STABILIZATION SHALL CONSIST OF PERMANENT GRASS SEED MIXTURE OR SOD THAT IS INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ALL SLOPES 3:1 AND GREATER SHALL BE RECEIVE SOIL STABILIZATION IN ACCORDANCE WITH THE SPECIFICATIONS.
6. WHERE STREAM CROSSINGS ARE REQUIRED FOR EQUIPMENT, TEMPORARY CULVERTS SHALL BE PROVIDED.
7. FOR FURTHER REQUIREMENTS AND DETAILS OF TREE PRESERVATION, PLANTING, EROSION AND SEDIMENT CONTROL, SEE COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS AND/OR THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

GENERAL EROSION AND SEDIMENT CONTROL NOTES
1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
2. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN THE AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION AND SEDIMENT CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
7. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
9. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
10. ALL BIOFILTERS SHALL BE KEPT OFF-LINE UNTIL CONSTRUCTION IS COMPLETED AND ALL AREAS HAVE BEEN PROPERLY STABILIZED. THIS SHALL BE ACHIEVED BY USING INLET PROTECTION AT THE CURB CUTS AND STORMWATER CATCH BASINS LEADING DIRECTLY INTO THE BIOFILTERS.
11. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

PRE-STORM EROSION & SEDIMENTATION CHECKLIST:
PER GENERAL EROSION AND SEDIMENT CONTROL NOTE 6, THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL (ESC) MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE COUNTY. THESE SUPPLEMENTARY PRACTICES ARE IN ADDITION TO THOSE SHOWN IN AN EROSION AND SEDIMENT CONTROL PLAN. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MODIFIED AS NEEDED TO ENSURE ONLY CLEAR WATER IS DISCHARGED FROM THE SITE.

THE FOLLOWING ACTIONS SHALL BE TAKEN PRIOR TO STORM EVENTS WITH PREDICTED HEAVY AND/OR LARGE VOLUME RAINFALL TO PREVENT SEDIMENT DISCHARGES FROM A CONSTRUCTION SITE. A TYPICAL SUMMER THUNDERSTORM IS AN EXAMPLE OF A STORM EVENT WITH PREDICTED HEAVY AND/OR LARGE VOLUME RAINFALL.

1. PERIMETER CONTROLS
   a. SILT FENCE SHALL BE CHECKED FOR UNDERMINING, HOLES, OR DETERIORATION OF THE FABRIC. FENCING SHALL BE REPLACED IMMEDIATELY IF THE FABRIC IS DAMAGED OR WON. SILT FENCE MUST BE TRENCHED INTO THE GROUND PER STATE SPECIFICATIONS (VESCH STD & SPEC 3.09).
   b. WOODEN STAKES OR STEEL POSTS SHALL BE PROPERLY SECURED UPRIGHT INTO THE GROUND. DAMAGED POSTS OR STAKES MUST BE REPLACED.
   c. SEDIMENT THAT HAS ACCUMULATED AGAINST THE SILT FENCE SHALL BE REMOVED. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE LEVEL REACHES ONE-HALF THE HEIGHT OF THE FENCING.
   d. HAY BALES OR A STONE BERM SHALL BE PLACED ACROSS THE CONSTRUCTION ENTRANCE TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
2. EXPOSED SLOPES AND SOIL
   a. EXPOSED SLOPES NOT AT THE FINAL STABILIZATION PHASE SHALL BE COVERED WITH TARPS, PLASTIC SHEETING, OR EROSION CONTROL MATTING. COVERING MATERIAL SHALL BE PROPERLY SECURED/ANCHORED.
   b. CONTROLS SHALL BE INSTALLED TO PREVENT CONCENTRATED FLOW DOWN AN EXPOSED SLOPE. BERMS OR DIVERSION DIKES SHALL BE INSTALLED AT THE TOP OF CUT/EXPOSED SLOPES TO DIRECT STORM FLOW AROUND THE DISTURBED AREA.
   c. EXPOSED SLOPES AT THE FINAL STABILIZATION PHASE SHALL BE STABILIZED USING SLOPE STABILIZATION PRACTICES SUCH AS SOIL STABILIZATION BLANKETS OR MATTING AS SPECIFIED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH STD & SPEC 3.36). BLANKETS OR MATS MUST BE PROPERLY SECURED AND ANCHORED TO THE SLOPE USING STAPLES, PINS, OR STAKES.
   d. SEEDED 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.
3. STOCKPILES
   a. STOCKPILED SOIL AND OTHER LOOSE MATERIALS THAT CAN BE WASHED AWAY SHALL BE COVERED WITH A TARP, PLASTIC SHEETING, OR OTHER STABILIZATION MATTING. THE COVER MUST BE PROPERLY SECURED/ANCHORED DOWN TO PREVENT IT FROM BEING BLOWN OFF AND EXPOSING MATERIALS TO RAIN. CONTROLS SUCH AS HAY BALES OR BOOMS SHALL BE PLACED ALONG THE PERIMETER OF THE STOCKPILE (DOWNHILL SIDE).
4. INLET PROTECTION
   a. INLET PROTECTION CONTROLS SHALL BE INSPECTED TO ENSURE THEY ARE FUNCTIONING PROPERLY AND FLOODING WILL NOT OCCUR. CLOGGED OR DAMAGED CONTROLS MUST BE REPLACED IMMEDIATELY. ENSURE CONTROLS ALLOW FOR OVERFLOW/BYPASS OF STORMWATER RUNOFF DURING SIGNIFICANT STORM EVENTS.

IN ADDITION TO THESE PRE-STORM ACTIONS, ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES MUST BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL.

POLLUTION PREVENTION PLAN NOTES (STORMWATER MANUAL - SECTION 2.4)
1. ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS:
   a. WATER LINE FLUSHING; LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; FOUNDATION DRAINS; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITATS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIREFIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.
2. APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (E.G., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MS4 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK.
3. PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATERS, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

UTILITY INSTALLATION:
UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

1. NO MORE THAN 100 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
2. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
3. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH 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 BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
5. STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
6. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
9. ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 15TH.
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 SILTATION MEASURES.

MAINTENANCE PROGRAM:
THE FOLLOWING IS A PROGRAM OF MAINTENANCE FOR THE MECHANICAL CONTROLS SPECIFIED IN THIS NARRATIVE AND ON THE PLAN:

1. THE SITE SUPERINTENDENT OR HIS/HER REPRESENTATIVE SHALL MAKE A VISUAL INSPECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREA (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS; ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO ENSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY INCLUDING RE-SEEDING AND MULCHING OR RE-SODDING IF NECESSARY.
2. ALL SEDIMENT TRAPPING DEVICES SHALL BE CLEARED OUT AT 50% TRAP CAPACITY AND THE SEDIMENT SHALL BE DISPOSED OF BY SPREADING ON THE SITE OR IF NOT SUITABLE FOR FILL, HAULING AWAY AND DEPOSITING AT AN ACCEPTABLE DUMP SITE.
3. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PREVENT MUD AND/OR OTHER DEBRIS FROM BEING ENTERED ONTO EXISTING SWM/BMP FACILITIES OR DOWNSTREAM WATER WAYS. SHOULD OFF-SITE AREAS BECOME POLLUTED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE AFFECTED AREAS TO THE SATISFACTION OF THE INSPECTOR.
4. AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ANY REMAINING DENUDED AREAS SHALL BE STABILIZED. CERTAIN DEVICES MAY BE REMOVED PRIOR TO CONSTRUCTION COMPLETION BUT ONLY WITH THE APPROVAL OF THE COUNTY INSPECTOR.
5. AFTER CONSTRUCTION OPERATIONS HAVE ENDED, ALL DISTURBED AREAS SHALL BE STABILIZED. UPON APPROVAL OF THE COUNTY INSPECTOR, MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED AND THE GROUND PERMANENTLY STABILIZED WITH VEGETATION WITHIN 30 DAYS.

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COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)
EROSION AND SEDIMENT CONTROL NOTES

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:
N/A

C032.1

FILENAME: CC23-220-E_AND_S_NOTES_SWPPP.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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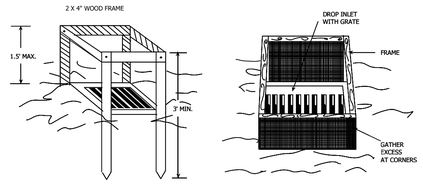
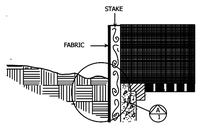
REVISED ON 01/03/2022

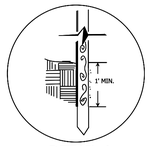
SILT FENCE DROP INLET PROTECTION



PERSPECTIVE VIEWS



ELEVATION OF STAKE AND FABRIC ORIENTATION



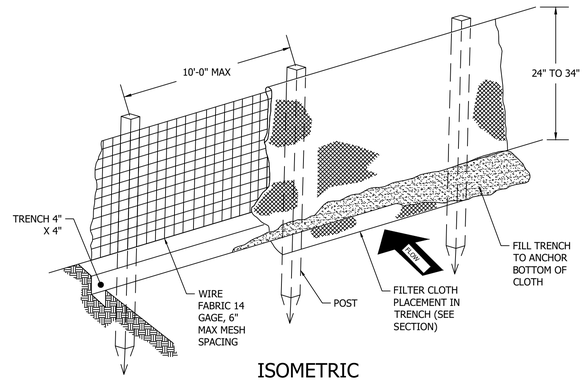
DETAIL A

SPECIFIC APPLICATION

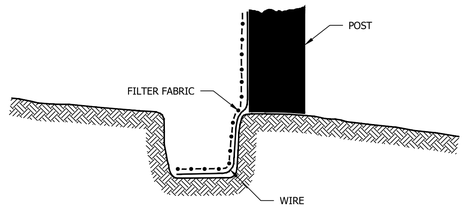
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

SOURCE: N.C. Erosion and Sediment Control Planning and Design Manual, 1988

PLATE 3.07-1



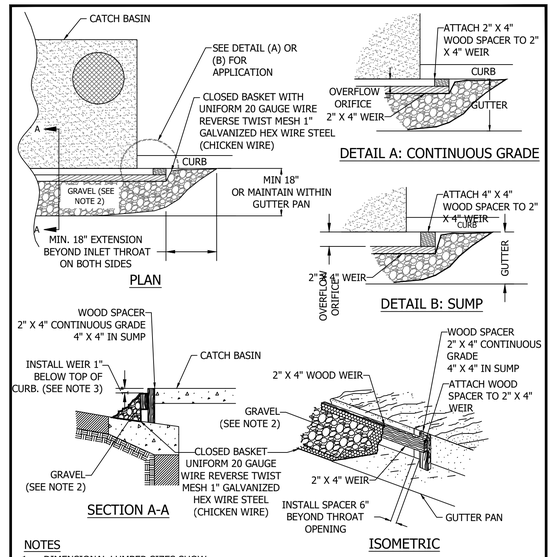
ISOMETRIC



SECTION

MODIFIED-VESCH 3.05

SILT FENCE — NOT TO SCALE



NOTES

1. DIMENSIONAL LUMBER SIZES SHOW.
2. GRAVEL SHALL BE VDOT COARSE AGGREGATE #3, # 357 OR #5.
3. WEIR HEIGHT MAY BE ADJUSTED BY PROJECT OFFICER OR INSPECTOR IN FLOOD PRONE AREAS.
4. PAINT 2"X4" WEIR, CLOSED BASKET, AND GUTTER WITH HIGH VISIBILITY INCANDESCENT ORANGE PAINT.
5. REMOVE SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE THE PROTECTION.

CURB INLET PROTECTION

REVISION & DATE

ARLINGTON VIRGINIA

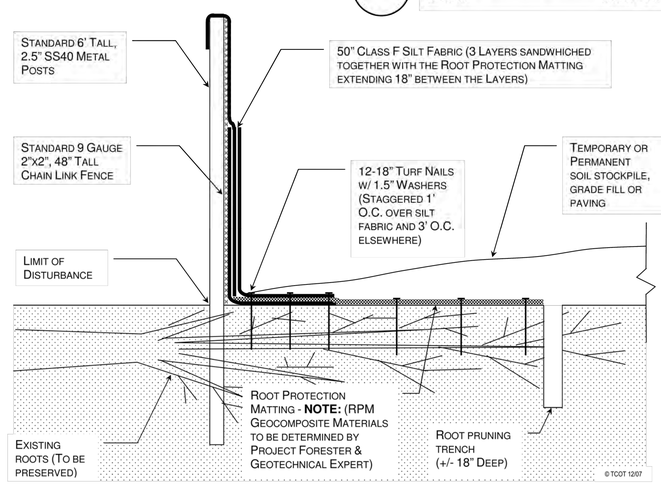
ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

DRAWING NO. 3.07-7 (ACG)

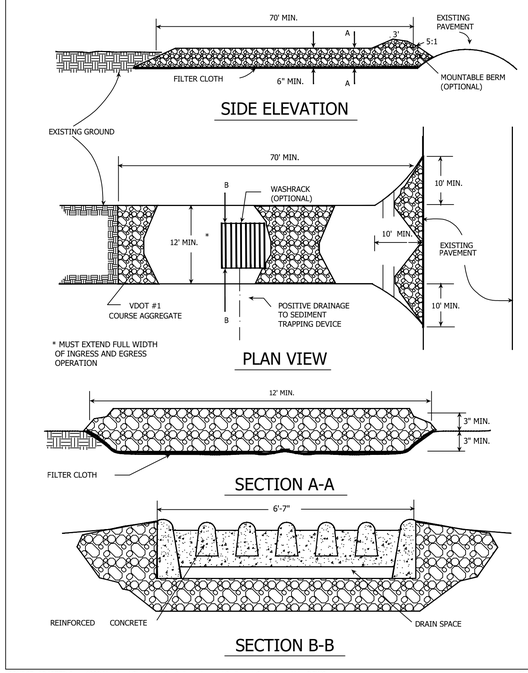
treecareoftrees

TRENCHLESS SUPER SILT FENCE

SECTION — NOT-TO-SCALE



STONE CONSTRUCTION ENTRANCE



SOURCE: ADAPTED from 1983 Maryland Standards for Soil erosion and Sediment Control, and Va. DSWC

Plate 3.02-1

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S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

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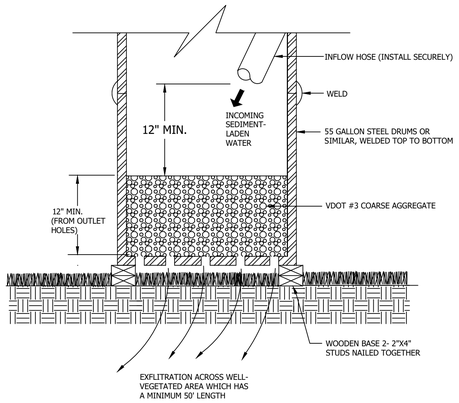
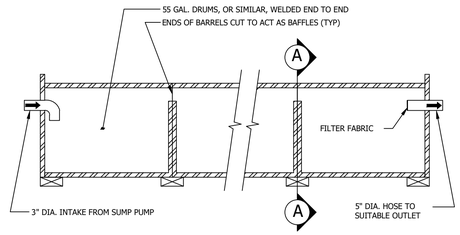


ELEVATION VIEW

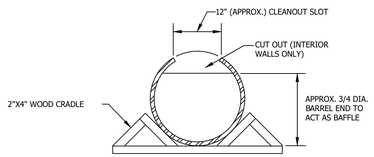
SOURCE: VA. DSWC

PLATE: 3.26-2

PORTABLE SEDIMENT TANK



ELEVATION



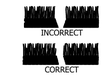
CROSS-SECTION A-A

SOURCE: USDA - SCS

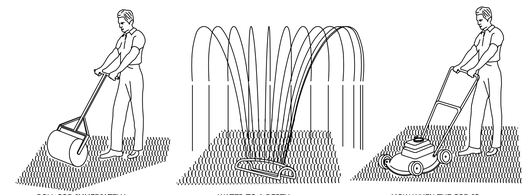
PLATE: 3.26-1

SODDING

LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.



BUTTING - ANGLED ENDS CAUSED BY THE AUTO-MATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

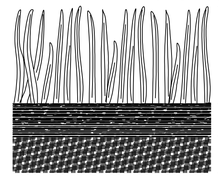


ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



SHOOTS OR GRASS BLADES. GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

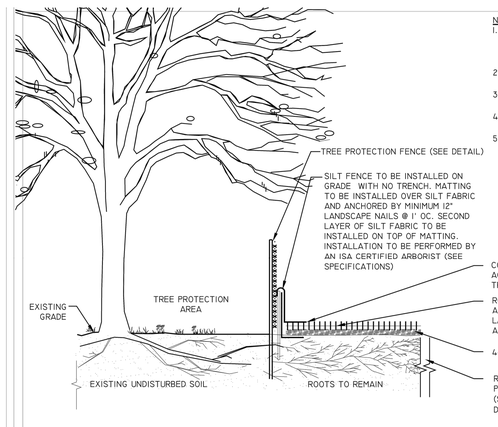
THATCH - GRASS CLIPPINGS AND DEAD LEAVES, UP TO 1/2" THICK.

ROOT ZONE - SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH.

SOURCE: VA. DSWC

PLATE: 3.33-1

NOTES:
1. MATTING MATERIAL SHALL BE DOUBLE SIDED GEOCOMPOSITE, GENET CORE WITH NON-WOVEN COVERING (SUCH AS TENAX TENDRAIN 770/2) OR APPROVED EQUIVALENT.
2. RPM SHALL BE INSTALLED BY A CERTIFIED ARBORIST.
3. TO BE USED FOR DESIGNATED TEMPORARY CONSTRUCTION ACCESS AND STOCKPILE AREAS.
4. MATTING SHALL BE PLACED ON 4-6" WOOD CHIP MULCH UNLESS OTHERWISE DIRECTED.
5. FOR HEAVY TRAFFIC AREAS, MATTING SHALL BE COVERED WITH 6-8" WELL GRADED CRUSHED AGGREGATE. ADDITIONAL LAYERS OF GEOTEXTILE MAY BE NEEDED.



TEMPORARY ROOT PROTECTION MATTING WITHIN CRZ

311300.7NS

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9/6/2023
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	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23

S EADS ST (12TH ST. S. TO 15TH ST. S.)

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

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REVISED ON 01/03/2022

Arlington County, Virginia

Legend

- Parcels
- Soils
  - Urban Land-Glenelg Complex
  - Urban Land-Sassafras Complex
  - Urban Land-Udorthents Complex
  - Udorthents Loam
  - Sassafras-Urban Land Complex
  - Urban Land-Woodstown Complx
  - Hatboro Loam
  - Codorus-Hatboro Complex
  - Urban Land-Codorus Complex
  - Urban Land-Sassafras-Neabsco Co
  - Glenelg Loam
  - Glenelg-Manor Complex
  - Glenelg-Urban Land Complex
  - Sassafras Gravelly Sandy Loam
  - Not Surveyed
  - Water

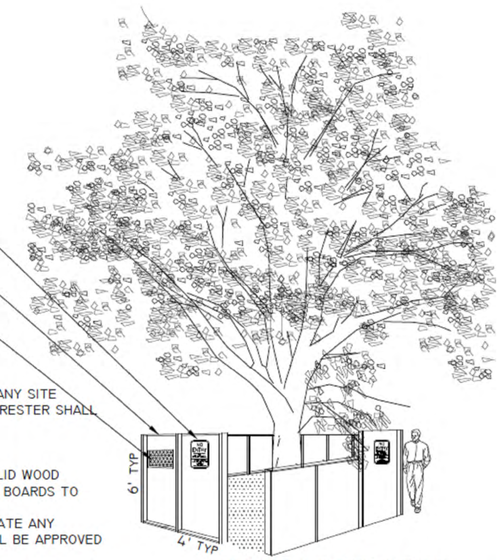
Notes

0.1 0 0.05 0.1 Miles

NAD_1983_StatePlane_Virginia_North_FIPS_4501_Feet
© Arlington County, VA. GIS Mapping Center

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

SIGN ENLARGEMENT



NOTES:

1. TREE PROTECTION FENCE (TPF) SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO INSTALLATION.
2. TPF SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. SIGN MATERIAL TO BE WEATHER RESISTANT.
4. TREE PROTECTION BARRIERS MUST BE CONSTRUCTED WITH A SOLID WOOD FRAME CLAD WITH PLYWOOD OR APPROVED EQUIVALENT. SECURE BOARDS TO ENSURE PROTECTION IS NOT MOVED DURING PROJECT.
5. HEIGHT OF BOARDING MAY BE LESS THAN 6 FEET TO ACCOMMODATE ANY BRANCHES THAT MAY BE LOWER. HEIGHT OF LESS THAN 6' SHALL BE APPROVED BY ARLINGTON COUNTY URBAN FORESTER.
6. REMOVE TPF ONLY WITH APPROVAL FROM ARLINGTON COUNTY URBAN FORESTER AFTER ALL SITE WORK HAS BEEN COMPLETED.
7. PROVIDE 12"(WIDTH) X4"(HEIGHT) CUT-OUTS ALONG PANELS FACING PAVED SURFACES SUCH AS SIDEWALKS, TWO CUT-OUTS PER FENCE PANEL.

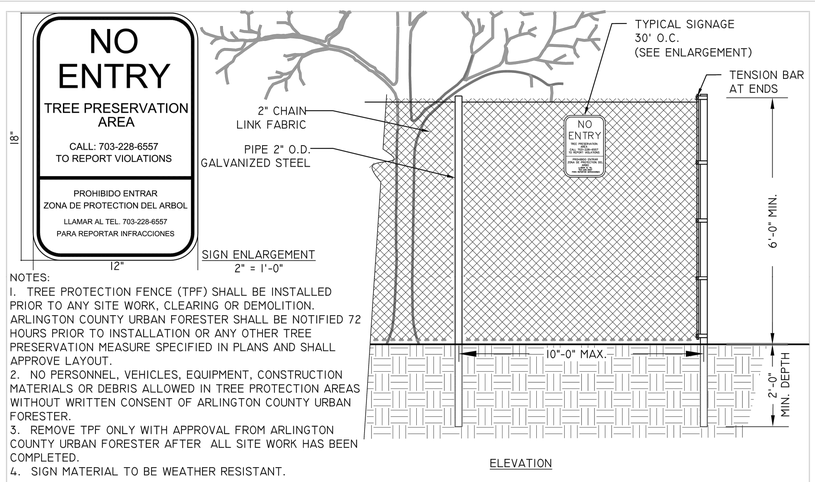
*NO PERSONNEL, VEHICLES, EQUIPMENT, CONSTRUCTION MATERIALS OR DEBRIS ALLOWED IN TREE PROTECTION AREAS WITHOUT WRITTEN CONSENT OF ARLINGTON COUNTY URBAN FORESTER.

TREE PROTECTION BARRIERS FOR RESTRICTED SPACE AND TREE PITS

N.T.S.

311300.14NS (2019)

ARLINGTON VIRGINIA DPR



NOTES:

1. TREE PROTECTION FENCE (TPF) SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO INSTALLATION OR ANY OTHER TREE PRESERVATION MEASURE SPECIFIED IN PLANS AND SHALL APPROVE LAYOUT.
2. NO PERSONNEL, VEHICLES, EQUIPMENT, CONSTRUCTION MATERIALS OR DEBRIS ALLOWED IN TREE PROTECTION AREAS WITHOUT WRITTEN CONSENT OF ARLINGTON COUNTY URBAN FORESTER.
3. REMOVE TPF ONLY WITH APPROVAL FROM ARLINGTON COUNTY URBAN FORESTER AFTER ALL SITE WORK HAS BEEN COMPLETED.
4. SIGN MATERIAL TO BE WEATHER RESISTANT.

6' CHAIN LINK TREE PROTECTION FENCE

1/2" = 1'-0"

311300.1 (2016) (02231.1)

ARLINGTON VIRGINIA DPR

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S EADS STREET PHASE II
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S EADS ST (12TH ST. S. TO 15TH ST. S.)

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

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SCALE:

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REVISED ON 01/03/2022

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
Arlington County Projects
(Linear Development / Stormwater Retrofit)

For Construction Activities At:

CC23 – S. Eads St. Phase II
S. Eads St. Between 12th St. S. and 15th St. S.
Arlington, VA 22202

Latitude: 38.862013 N (decimal degrees)

Longitude: 77.05013 W (decimal degrees)

Construction Activity Operator:

TBD
Insert Company/Organization Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Email Address
Insert 24-hour Emergency Contact

SWPPP Preparation Date:

November 7, 2022

CERTIFICATION

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Operator Name: _____

Title: _____

Signature: _____

Date: _____

1.0 SWPPP Documents Located Onsite & Available for Review

SWPPP Document Type	Located Onsite & Available for Review?	
Registration Statement	☐ Yes	☒ NA
Notice of Coverage Letter	☐ Yes	☒ NA
Construction General Permit	☒ Yes	☐ NA
Pollution Prevention Plan	☒ Yes	☐ NA
Erosion & Sediment Control Plan	☒ Yes	☐ NA
Stormwater Management Plan	☒ Yes	☐ NA
LDA Permit	☒ Yes	☐ NA

Required documents must be kept at a centralized location on the project site (i.e. in a mail box or other container)

2.0 Authorized Non-Stormwater Discharges

Type of Authorized Non-Stormwater Discharges	Likely Present at Your Project Site?	
Uncontaminated excavation dewatering	☒ Yes	☐ No
Landscape irrigation	☐ Yes	☒ No
Others [describe]	☐ Yes	☒ No

3.0 Pollution Prevention Awareness

Employees will be given a "walk through" of the site identifying areas of possible pollution and will be shown Erosion and Sediment Controls and Pollution Prevention Practices (identified in Sections 4.0 and 5.0 of this SWPPP) that are applicable to their assigned job duties. A refresher meeting and "walk through" will be conducted on an as needed basis.

4.0 Erosion & Sediment Controls

Select all that apply	Erosion & Sediment Control	Estimated Installation Date	Estimated Removal Date	Responsible Party
☒	Construction Entrance (Std. & Spec. 3.02)			Construction Activity Operator (See Cover Page)
☒	Silt Fence (Std. & Spec. 3.05)			
☐	Culvert Inlet Protection (Std. & Spec. 3.08)			
☐	Outlet Protection (Std. & Spec. 3.18)		NA	
☒	Temporary Seeding (Std. & Spec. 3.31)	As required	NA	
☒	Permanent Seeding (Std. & Spec. 3.32)		NA	
☐	Sodding (Std. & Spec. 3.33)		NA	
☒	Mulching (Std. & Spec. 3.35)		NA	
☒	Safety Fence (Std. & Spec 3.01)			
☒	Storm Drain Inlet Protection			

	(Std. & Spec 3.08 and/or Arlington County Std. & Spec from approved ESC plan)			
☒	Dewatering (Std. & Spec 3.26 and/or Arlington County Std. & Spec from approved ESC plan)			
☐	Turbidity Curtain (Std. & Spec 3.27 and/or Arlington County Std. & Spec from approved ESC plan)			
☒	Tree Protection (Arlington County Std. & Spec from approved ESC plan)			
☐	Stream Crossing / Cofferdams (Std. & Spec 3.25 or on plan)			
☐	Pump Around System (detail on approved plan)			
☐	Rip Rap (Std. & Spec. 3-19)			
☐	Other(s) [describe]			

Pre-Storm Erosion and Sediment Control Checklist
The following actions shall be taken prior to storm events with predicted heavy and/or large volume rainfall to prevent sediment discharges from a construction site. A typical summer thunderstorm is an example of a storm event with predicted heavy and/or large volume rainfall.

☒ Perimeter controls (silt fence, hay bales, stone berms) used to prevent sediment from leaving the site shall be checked for undermining, holes, or deterioration and repaired/replaced if needed.

☒ Sediment that has accumulated against perimeter controls shall be removed if the depth exceeds more than 1/2 of the silt fence height.

☒ Exposed soil or slopes shall be covered with straw, tarps, plastic sheeting, or erosion control matting. Covering material shall be properly secured/anchored.

☒ Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side). Stockpiled materials should not obstruct flow along the curb line.

☒ Inlet protection controls shall be inspected to ensure they are installed per approved ESC plan, are functioning properly, and maintained as needed.

5.0 Potential Sources of Pollution & Pollution Prevention Practices

Pollutant-Generating Activity	Likely Present at your Project Site?	Pollutants: Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash, Debris, Solids	Other Toxic Chemicals	Pollution Prevention Practice	Responsible Party
Clearing, grading, excavating, and un-stabilized areas	☒ Yes ☐ No	X	X						X		(1)	Construction Activity Operator (See Cover Page of this SWPPP)
Paving and saw cutting operations	☒ Yes ☐ No	X					X		X		(2)	
Concrete operations, washout, and cement waste	☒ Yes ☐ No			X	X				X		(3)	
Washing / cleaning	☒ Yes ☐ No	X	X	X	X		X		X	X	(4)	
Dewatering operations	☒ Yes ☐ No	X	X						X		(5)	
Material / chemical use and storage	☒ Yes ☐ No	X	X	X	X	X	X		X	X	(6)	
Equipment and vehicle maintenance	☒ Yes ☐ No				X		X		X	X	(7)	
Waste management / disposal	☐ Yes ☒ No								X	X	(8)	
Sanitary waste	☐ Yes ☒ No		X		X			X			(9)	
Nutrient management	☐ Yes ☒ No	X	X						X	X	(10)	

Pollution Prevention Practices:

(1) **Clearing, grading, excavating, and un-stabilized areas** – Maintain as much existing vegetation as practicable. Utilize erosion and sediment controls to prevent sediment from leaving the construction site. Dispose of clearing debris at acceptable disposal sites. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities. Plastic sheeting, tarps, 2" deep straw cover, and/or erosion matting can be used for temporary slope stabilization.

(2) **Paving and saw cutting operations** – Cover storm drain inlets during paving and saw cutting operations. Use pollution prevention materials such as drip pans and absorbent/oil dry for all paving machines to limit leaks and spills of paving materials and fluids. Slurry from saw cutting operations may not enter a storm drain; it must be captured and disposed of properly.

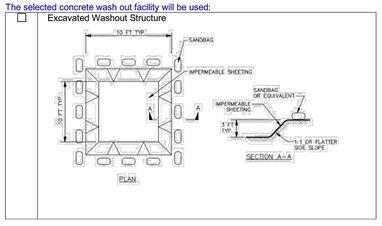
Temporary controls (i.e. targ and block, sand berms, booms, and/or filter fabric) shall be used to cover storm drains during paving and saw cutting operations to prevent any discharges from entering the storm drain. These temporary controls SHALL BE REMOVED AT THE END OF EACH DAY. Inlet protection specified in the approved ESC plan shall be installed or reinstalled following the completion of paving or saw cutting work.

☒	Method of covering / protecting storm drains:
☒	Method for containment, collection, disposal of saw cut slurry:

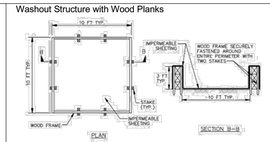
(3) **Concrete operations, washout, and cement waste** – Direct concrete wash water into a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes.
- ☒ Washouts must be sized appropriately for the needs of the project.
- ☒ Do not locate washouts near storm drains. Concrete wash water is not allowed to enter a storm drain.
- ☒ Concrete washout areas cannot be used for the purpose of dewatering.
- ☒ Set up and operate small mixers on top of plywood that is covered by tarps or heavy plastic drop cloths.
- ☒ Wash out mixers and truck chutes in designated contained washout areas
- ☒ No tracking from washout areas may occur.
- ☒ Place plastic sheeting, boards, or tarps under concrete truck chutes during pouring

The selected concrete wash out facility will be used:

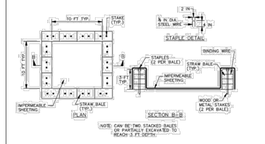
☐ Excavated Washout Structure



☒ Washout Structure with Wood Planks



☐ Washout Structure with Straw Bales



☐ Prefabricated Containment System
Type: _____

☐ Other:

(4) **Washing / cleaning** – Prevent the discharge of wash water to the storm drain system or surface waters.

☒ Wash water or liquid wastes may not enter a storm drain or surface waters.

☒ Provide a suitable containment system for cleaning equipment such as a drum, prefabricated system, lined container, or portable wash pad.

☒ The wash / containment area must be sized appropriately for the needs of the project.

☒ Locate wash / containment areas away from storm drains.

(5) **Dewatering operations** – Construction site dewatering may not be discharged without treatment. Sediment laden or turbid water shall be filtered, settled or similarly treated prior to discharge.

☒ Dewatering detail on approved ESC plan will be used.

☒ Dewatering option from Planning & Field Guide for Pollution Prevention (P2):
- ☒ Filter Box
- ☐ Straw Bale/Silt Fence Pit
- ☐ Portable Sediment Tank
- ☒ Filter Bag

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PROFESSIONAL ENGINEER

APPROVALS	DATE
	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

STORMWATER POLLUTION PREVENTION PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

N/A

C035.1

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REVISED ON 01/03/2022

☐ Pump from Settling Pit
☐ Manufactured System: _____

☐ Other: _____

(6) **Material / chemical use and storage** –Designate areas of the construction site for material delivery and storage. Locate these areas near construction entrances and away from waterways and storm drains. Enclose, cover or berm construction material storage areas if susceptible to stormwater.

☒ Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side).

Stockpiled materials located on the edge of roadways should not obstruct flow along the curb line (gutter). Leave at least a one (1) foot space away from the curb to allow stormwater to flow along the curb line. Boards with cinder blocks and/or bricks may be used to create the flow through space.

☐	Method used to ensure flow through:

☐ Provide secondary containment for paint, pesticides, cleaners, solvents, and/or other chemicals and keep these items secured and covered when not in use

☐ Regularly inspect containers.

(7) **Equipment and vehicle maintenance –** Use a designated area, away from storm drains and surface waters, to refuel vehicle or equipment or perform maintenance.

☒ Regularly inspect vehicles and equipment for leaks. Clean up all spills and leaks upon discovery.

☒ Use containment measures when conducting fueling (e.g. place spill pad, board, plastic sheeting on ground)

☒ Regularly inspect fuel containers.

☒ Provide secondary containment and secure storage for fuel, oil, and/or lubricants

☒ Keep drip pans, sheeting, and/or absorbent pads under heavy equipment when not in use (i.e. overnight) to capture leaks.

(8) **Waste management / disposal** – Designate a waste collection area on the construction site that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterway. Ensure that waste containers have lids so they can be covered before periods of rain. Schedule waste collection to prevent the containers from overfilling.

☐ A sufficient number of waste containers must be kept on a site to handle the quantity of waste produced.

☐ Keep roll off containers covered and/or dumpster / trash lids closed.

☐ Check waste containers frequently for damage / leaks and clean using DRY methods when necessary. Never clean out a dumpster by power washing or hosing it out.

☐ Replace containers that are leaking, cracked, corroded, or otherwise deteriorating.

☐ Do not bury waste material. Dispose of excess dry concrete, grout and mortar in the trash.

(9) **Sanitary waste** – Prevent the discharge of sanitary waste by providing convenient and well-maintained portable sanitary facilities.

☒ Locate portable lavatories away from storm drains and surface waters.

☒ Keep portable lavatories level and provide secondary containment (i.e. trays)

☒ Regularly inspect facilities for leaks

☒ Schedule routine maintenance

(10) **Nutrient management** – Apply nutrients in accordance with manufacturer's recommendations. Do not apply during rainfall events or windy conditions. Provide secondary containment and keep fertilizer properly secured when not being used.

Additional information and details can be found in the Arlington County Planning & Field Guide for Pollution Prevention (P2).

6.0 Stormwater Management Controls

Select all that apply	Stormwater Management Control	Estimated Installation Date	Responsible Party
☐	Exempted – stormwater management retrofit facility or stream restoration project	NA	NA
☐	Linear development project per Arlington County Chesapeake Bay Total Maximum Daily Load (TMDL) Action Plan[1]	NA	NA
☐	Post-development Stormwater Management Controls provided by a Larger Common Plan of Development or Sale	NA	Common Plan Construction Activity Operator
☐	Rooftop Disconnection		Construction Activity Operator

[1] *In accordance with Arlington County's Chesapeake Bay Total Maximum Daily Load (TMDL) Action Plan, approved by the Virginia Department of Environmental Quality (DEQ) on September 1, 2015, linear development projects conducted by the County are administered and tracked as follows consistent with 9VAC25-870-69.A.4, 9VAC25-870-76, and 9VAC25-870-92:*

- *Pollutant load changes will be computed as described in Section 3.A of the Action Plan.*
- *Retrofit opportunities will be evaluated for each project, using the screening and selection criteria applied and described in the adopted Stormwater Master Plan.*
- *Retrofit projects that meet the screening criteria and are determined by Arlington to be feasible and cost-effective will be implemented with specific linear development projects. Pollutant load reductions from retrofit projects will be computed as described in Section 5 of the Action Plan.*
- *In cases where retrofit projects are not feasible and cost-effective for a particular linear project, any POC load increases that might occur for that project will be addressed by larger overall POC load reductions in place or added through TMDL action plan implementation.*

In the above manner Arlington, as the MS4 operator and the construction site operator for its linear development projects, implements linear projects and retrofit projects in a manner that achieves the most TMDL POC reduction for the least cost, while fully accounting for load changes that occur with linear development project activity consistent with the DEQ Chesapeake Bay TMDL Special Condition Guidance.

☐	Sheet flow to Vegetated Filter (1 or 2)		(See Cover Page of this SWPPP)
☐	Grass Channel		
☐	Rainwater Harvesting		
☐	Permeable Pavement (1 or 2)		
☐	Infiltration (1 or 2)		
☐	Bio-retention (1 or 2)		
☐	Others [describe]		

7.0 Spill Prevention & Response

Most spills can be cleaned up using a spill kit. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at the project site.

1st Priority: Protect all people
2nd Priority: Protect equipment and property
3rd Priority: Protect the environment

1. Check for hazards (flammable material, noxious fumes, cause of spill) – if flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave the area and call 911. LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.
2. Ensure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
3. Stop the spill source.
4. Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers.
5. If possible, stop spill from spreading and/or entering storm drains (use absorbent or other materials as necessary).
6. If spilled material has entered a storm drain; contact Arlington County Fire Department and project manager.
7. Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water.
8. Properly dispose of cleanup materials and used absorbent material according to manufacturer specifications.

Emergency Contacts:

Local Contacts

Arlington County Fire & Police	703-558-2222
DES Water, Sewer, Streets 24-Hour Emergency	703-228-6555
Washington Gas Emergency	703-750-1400

Nights, Holidays & Weekends

VA Dept. of Emergency Management	804-674-2400
24 Hour Reporting Service	

Spill kit on site: ☐ Yes ☐ No

Location(s) of spill kit: _____

8.0 Self Inspection Report & Corrective Action Log (make additional copies as necessary)

Company/Organization:	
Name of Inspector:	
Telephone Number:	
Qualifications:	

Inspection Schedule

Discharges to impaired waters, surface waters within a TMDL watershed, or exceptional waters:

☒ Once every 4 business days

Inspection Date: _____

Describe phase of construction: _____

Is a copy of the SWPPP available on site? ☐ Yes ☐ No Is the SWPPP complete? ☐ Yes ☐ No

Erosion & Sediment Controls/ Pollution Prevention Practices	In Compliance?	Corrective Action Needed & Notes	Date Corrective Action Taken
Are controls in place to prevent sediment from being tracked off site or onto the street?	☐ Yes ☐ No ☐ NA		
Are perimeter controls adequately installed and properly maintained?	☐ Yes ☐ No ☐ NA		
Are storm drains properly protected / approved inlet protection is in place?	☐ Yes ☐ No ☐ NA		
Are all slopes and disturbed areas, including stockpiles, not actively being worked properly stabilized?	☐ Yes ☐ No ☐ NA		
Are dewatering operations working properly?	☐ Yes ☐ No ☐ NA		
Is construction dust properly controlled?	☐ Yes ☐ No ☐ NA		
Are mature trees and/or natural areas properly protected?	☐ Yes ☐ No ☐ NA		

Are washout facilities (concrete, paint) available, labeled, and properly maintained?	☐ Yes ☐ No ☐ NA		
Are trash and waste materials properly managed and disposed of?	☐ Yes ☐ No ☐ NA		
Are trash receptacles covered and not leaking?	☐ Yes ☐ No ☐ NA		
Are non-stormwater discharges (i.e. wash water, saw cut slurry) properly managed?	☐ Yes ☐ No ☐ NA		
Are vehicle and equipment fueling, maintenance, and/or staging areas free of spills and leaks?	☐ Yes ☐ No ☐ NA		
Are materials that are potential stormwater contaminants stored properly (covered / have secondary containment)?	☐ Yes ☐ No ☐ NA		
Are portable lavatories level, in good condition, and located away from storm drains?	☐ Yes ☐ No ☐ NA		
Is a spill kit accessible onsite?	☐ Yes ☐ No ☐ NA		

Are there any unauthorized discharges at the time of this inspection? ☐ Yes ☐ No
If yes, describe:

Has any unauthorized discharge occurred since the last inspection? ☐ Yes ☐ No
If yes, describe:

Non – Compliance Issues
Describe any incidents of non-compliance not described above (use another page if necessary)

Certification
"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Operator or Assigned Qualified Personnel Name: _____

Signature: _____

Date: _____

9.0 Grading & Stabilization Activities Log

Date Grading Activity Initiated	Description of the Grading Activity (including location)	Date Grading Activity Ceased	Date Stabilization Measures Initiated	Description of the Stabilization Measure (including location)

10.0 SWPPP Modification & Update Log

Modification Date	Description of the Modification / Update	Modification Prepared By (name & title)

INSTRUCTIONS for COMPLETING the
SINGLE FAMILY RESIDENCE, COMMON PLAN of DEVELOPMENT or SALE
STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

General
A Stormwater Pollution Prevention Plan (SWPPP) must be developed prior to obtaining locality (e.g., City, County, Town) authorization to commence land disturbance.

SWPPP Cover Page
For a construction activity, enter the project/site name and physical address (if available), including city (or town), state and zip code. Enter the latitude and longitude in decimal degrees of the construction activity.

Enter the Construction Activity Operator's company/organization name, the Operator's name and mailing address, including city (or town), state, and zip code, telephone number, email address (if available), and a 24-hour emergency contact.

Enter the SWPPP preparation date.

The Construction Activity Operator identified on the cover page of the SWPPP is responsible for certifying the information contained therein. Please sign the certification in INK. Please note that state statuses require the SWPPP to be signed as follows:
(1) For a corporation: by a responsible corporate officer;
(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
(3) For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

Section 1.0 SWPPP Documents Located Onsite & Available for Review
Utilize the provided checklist to ensure that the required SWPPP documents are located onsite and are available for review, if applicable.

Section 2.0 Authorized Non-Stormwater Discharges
Identify the authorized non-stormwater discharges likely to be present at the project site. If an unlisted authorized non-stormwater discharge is likely to be present at the project site, provide it here.

Section 3.0 Pollution Prevention Awareness
Provide employees with a "walk through" of the project site and identify areas of possible pollution, erosion and sediment controls, and pollution prevention practices which are applicable to their assigned job duties. Conduct refresher meetings and perform additional "walk throughs" on an as needed basis.

Section 4.0 Erosion & Sediment Controls
Identify the erosion and sediment controls to be implemented at the project site. For each erosion and sediment control, enter the estimated installation date and estimated removal date. If an unlisted erosion and sediment control will be implemented at the project site, provide the applicable information here.

Section 5.0 Potential Sources of Pollution & Pollution Prevention Practices
Identify the pollutant-generating activities likely to be present at the project site, implement and maintain the corresponding pollution prevention practices. If an unlisted pollutant-generating activity is likely to be present at the project site, describe it, identify the associated pollutant(s), and provide the corresponding pollution prevention practice(s) to be implemented and maintained.

Section 6.0 Stormwater Management Controls
Identify the stormwater management controls to be implemented at the project site, if applicable. For each stormwater management control, enter the estimated installation date. If an unlisted stormwater management control will be implemented at the project site, provide the applicable information here.

Section 7.0 Spill Prevention & Response
Most spills can be cleaned up following manufacturer specifications. The priority should be to protect all people, equipment, property, and the environment. Enter the telephone number of your local fire and police departments.

Section 8.0 Inspections & Corrective Action Log
Enter the qualified inspector's company/organization name, the inspector's name, telephone number, and qualifications. Select the applicable inspection schedule, enter the construction activity inspection date, and enter the date and rainfall amount of the last measurable storm event (if applicable). Identify if the implemented best management practices are in compliance with the SWPPP. Enter corrective actions needed; the party responsible for implementing the corrective actions, and the date corrective actions were taken, if applicable. Make additional copies of the inspection and corrective action log as necessary.

Section 9.0 Grading & Stabilization Activities Log
Enter the date grading activities were initiated, a description of the grading activities including location, the date grading activities ceased, the date stabilization measures were initiated, and a description of the stabilization measures including location.

Section 10.0 SWPPP Modification & Update Log
Enter the SWPPP modification date, description of the SWPPP modification/update, and the name and title of the SWPPP modification preparer, if applicable.

ARLINGTON VIRGINIA
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9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
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WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

STORMWATER POLLUTION PREVENTION PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

N/A

C035.2

FILENAME: CC23-220-E_AND_S_NOTES_SWPPP.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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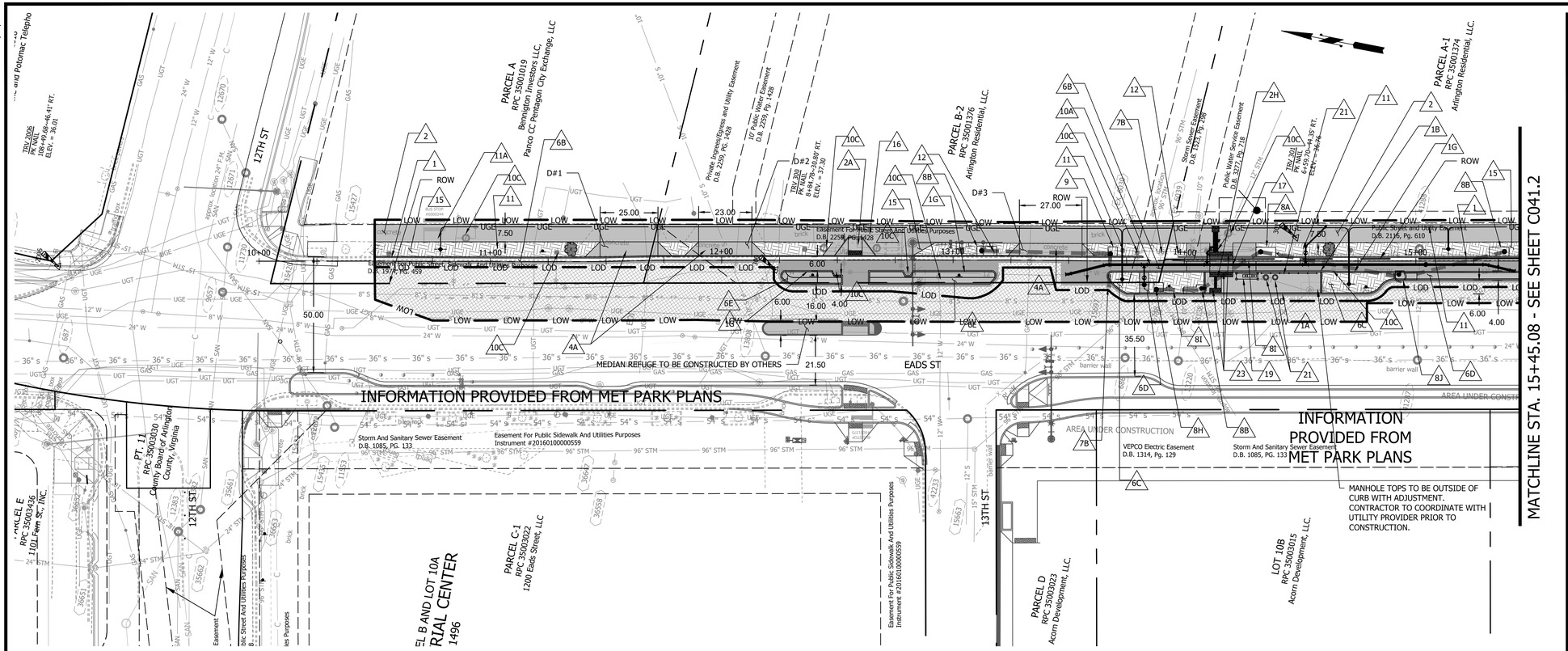
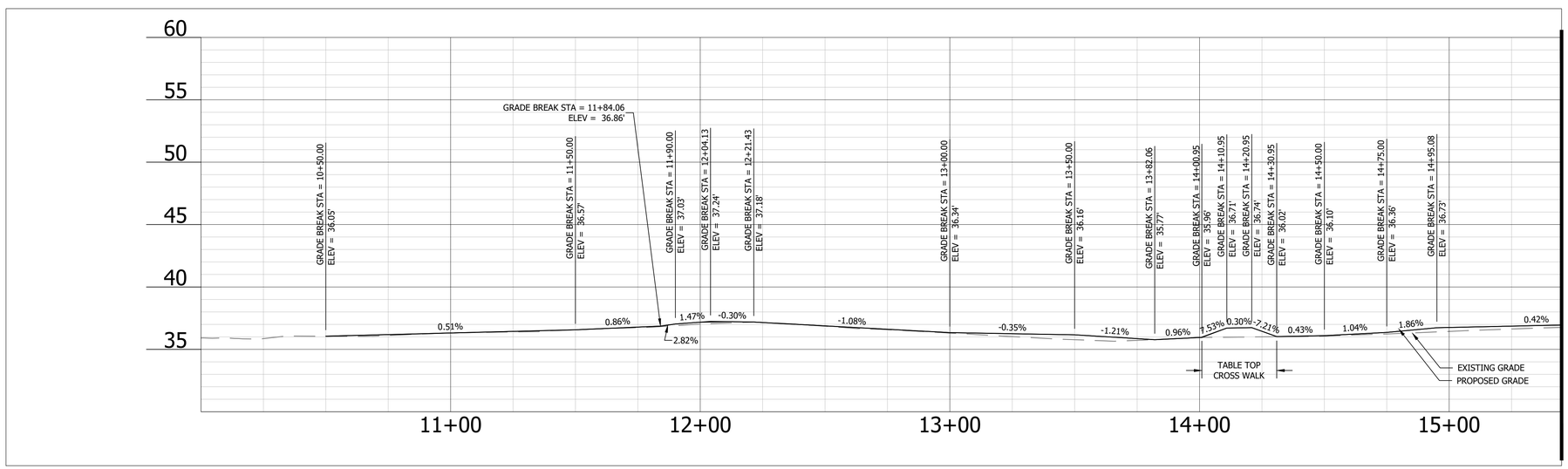
REVISED ON 01/03/2022





CONSTRUCTION NOTES

- 1 PROP CURB AND GUTTER (C-2) ARL STD (R-2.0)
- 1A PROP HEADER CURB (C-3) ARL STD (R-2.0)
- 1B PROP MODIFIED HEADER CURB, SEE DETAIL SHEET C002.1
- 1F CONNECT TO EXISTING CURB AND GUTTER
- 1G PROP ALTERNATE CURB FOR MEDIANS (C-5)
- 2 PROP SIDEWALK ARL STD (R-2.0)
- 2A PROP MODIFIED RAMP (CG-12A) VDOT ROAD & BRIDGE STANDARDS (204.02) SEE CURB RAMP DETAIL SHEET #
- 2H PROP 24" WIDE LONGITUDINAL DIRECTIONAL INDICATORS
- 4A PROP COMMERCIAL CONCRETE DRIVEWAY ENTRANCE (STANDARD) ARL STD (R-2.4A)
- 6B PROPOSED FULL DEPTH ASPHALT PAVEMENT. SEE TYPICAL SECTIONS FOR DEPTH
- 6C PROPOSED LANDSCAPE MEDIAN SURFACE. PER ARL STD (R-1.4)
- 6D PROPOSED CONCRETE MEDIAN SURFACE. PER ARL STD (R-1.4)
- 6E MOUNTABLE CONCRETE MEDIAN SURFACE. REFER TO DETAIL ON SHEET C004.1
- 7A CONVERT EXISTING CATCH BASIN TO STORM MANHOLE PER ARL CONSTR SPEC 02505 - 4.2
- 7B ADJUST EXISTING CATCH BASIN TOP TO PROPOSED GRADE PER ARL CONSTR SPEC 02500 - 3.4
- 7C CONNECT PROPOSED PIPE TO EXISTING STRUCTURE PER ARL CONSTR SPEC 02505 - 3.5
- 8A PROP STANDARD CATCH BASIN WITH EXTENDED THROATS FOR SAGS, CB-2A PER ARL STD (D-1.3)
- 8B PROP STANDARD CATCH BASIN WITH EXTENDED THROATS FOR SLOPES, CB-2B PER ARL STD (D-1.4)
- 8H REPLACE EXISTING MANHOLE FRAME AND COVER. ADJUST NEW TOP TO GRADE
- 8I PROP 15" RCP STORMWATER PIPE, ARL CONSTR SPEC 02505
- 8J PROPOSED CURB DROP INLET VDOT STD. DI-3B
- 9 PROP STANDARD MANHOLE FRAME AND COVER MH-1, VDOT ROAD & BRIDGE STANDARDS (106.02)
- 10 RELOCATE EXISTING WATER METER AND INSTALL FRAME AND COVER PROVIDED BY COUNTY ARL STD (W-8.0 AND W-9.0)
- 10A PROP. RELOCATED 12" WATER MAIN
- 10B REMOVE EXISTING FIRE HYDRANT
- 10C ADJUST EXISTING WATER APPARATUS AROUND PROPOSED IMPROVEMENTS
- 11 NEW COUNTY STANDARD OR DECORATIVE LIGHT OR COLONIAL LIGHT (TYP) ARLINGTON COUNTY STANDARD (14080, 14110, 14112)
- 11A NEW ELECTRIC CONDUIT (TYP) ARLINGTON COUNTY STANDARD (14030)
- 12 RELOCATE EXISTING SIGN
- 14 RELOCATE UTILTY POLE AND ALL GUYS BY OTHERS
- 15 PROPOSED LANDSCAPING. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
- 16 TRAFFIC SIGNAL AND PED PUSH BUTTON. WORK TO BE PERFORMED BY OTHERS
- 17 PROPOSED TABLETOP ASPHALT BIKE LANE WITH RAISED CROSSWALK
- 18 RELOCATE BUS STOP SIGN # WITH SQUARE TUBE SIGN POST (STP-1 MOD) PRE VDOT ROAD AND BRIDGE STANDARDS (1321.13).
- 19 PROPOSED ECLIPSE 4'X10' CANTILEVER BUS STOP SHELTER WITH BUS SHELTER PAD PER ARLINGTON COUNTY STANDARD (R-2.10). BUS SHELTER, SHELTER BENCH, AND HARDWARE PACKAGE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 20 PROPOSED ORNAMENTAL HANDRAIL PER ARLINGTON COUNTY STANDARD (R-3.2).
- 21 PROPOSED TRASH AND RECYCLING RECEPTACLES (ARLINGTON COUNTY SPEC. 10530). RECEPTACLES AND HARDWARE PACKAGE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 22 PROPOSED DETECTABLE WARNING SURFACE PER ARLINGTON COUNTY SPECIFICATIONS
- 23 PROPOSED DETECTABLE WARNING SURFACE CAST IN PLACE

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
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COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/7/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

PLAN AND PROFILE

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 7 2023

SCALE:
0 5 10
VERT. SCALE
0 25 50
HORIZ. SCALE

C041.1

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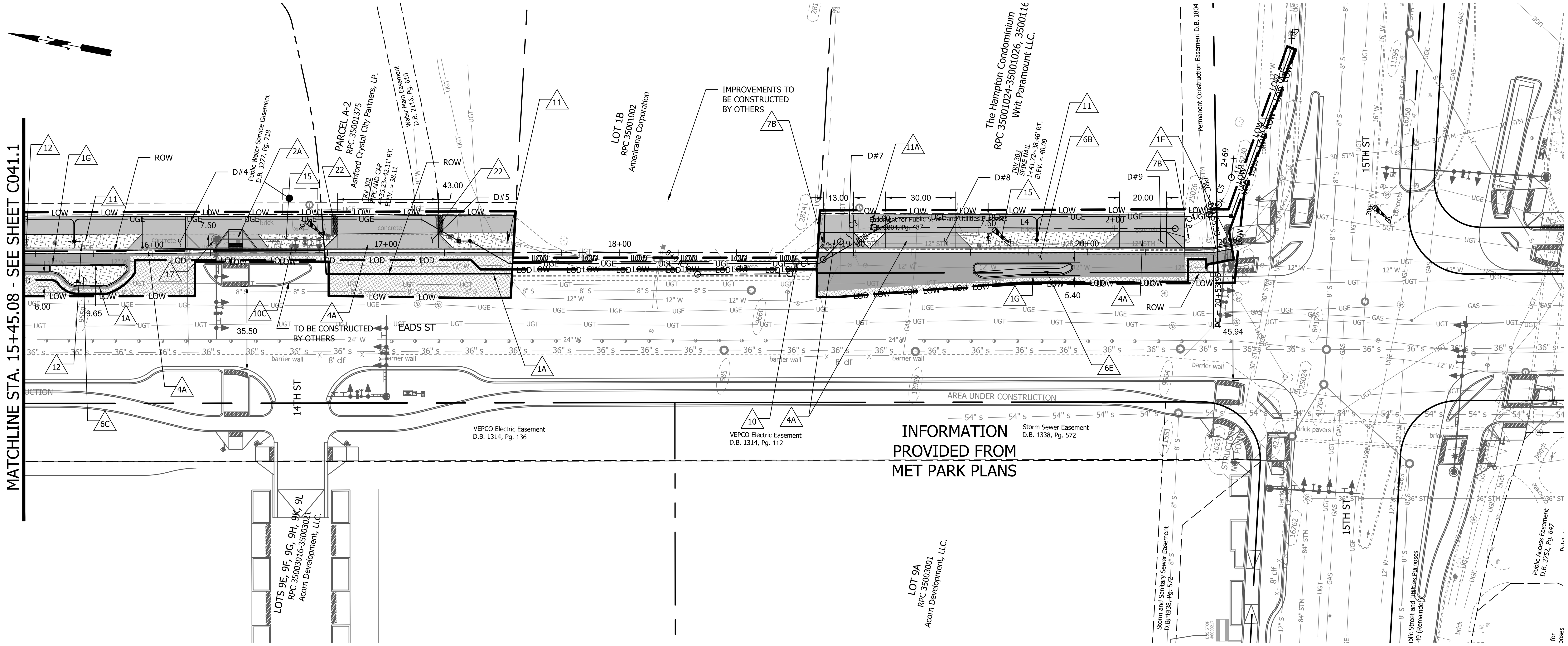

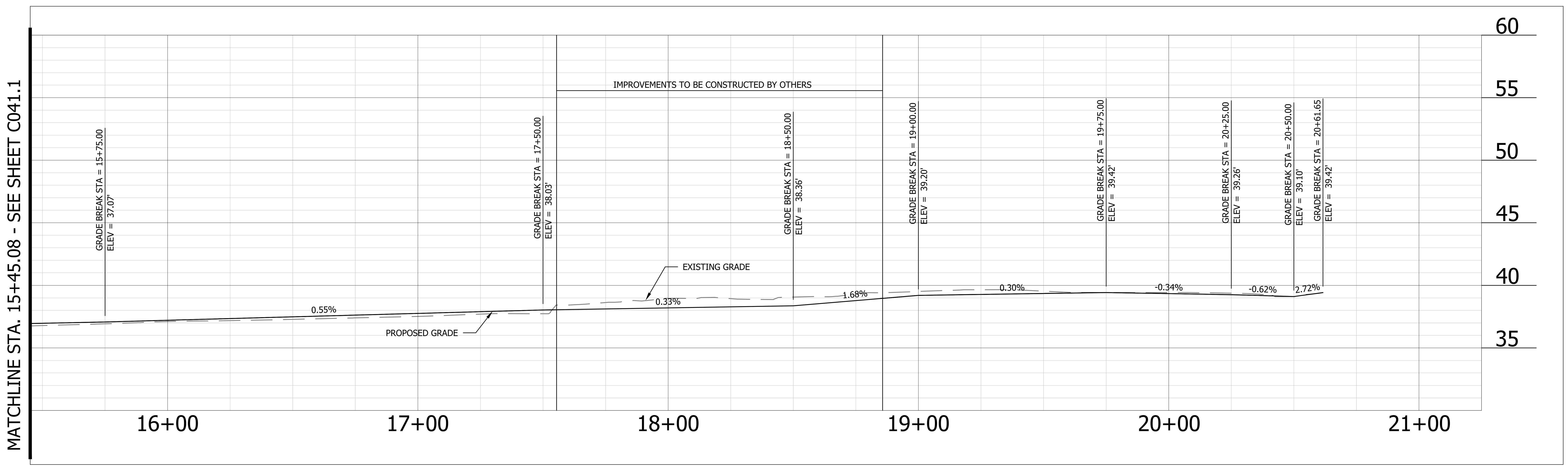

CONSTRUCTION NOTES

- 1 PROP CURB AND GUTTER (C-2) ARL STD (R-2.0)
- 1A PROP HEADER CURB (C-3) ARL STD (R-2.0)
- 1B PROP MODIFIED HEADER CURB, SEE DETAIL SHEET C002.1
- 1F CONNECT TO EXISTING CURB AND GUTTER
- 1G PROP ALTERNATE CURB FOR MEDIANS (C-5)
- 2 PROP SIDEWALK ARL STD (R-2.0)
- 2A PROP MODIFIED RAMP (CG-12A) VDOT ROAD & BRIDGE STANDARDS (204.02) SEE CURB RAMP DETAIL SHEET #
- 2H PROP 24" WIDE LONGITUDINAL DIRECTIONAL INDICATORS
- 4A PROP COMMERCIAL CONCRETE DRIVEWAY ENTRANCE (STANDARD) ARL STD (R-2.4A)
- 6B PROPOSED FULL DEPTH ASPHALT PAVEMENT. SEE TYPICAL SECTIONS FOR DEPTH
- 6C PROPOSED LANDSCAPE MEDIAN SURFACE. PER ARL STD (R-1.4)
- 6D PROPOSED CONCRETE MEDIAN SURFACE. PER ARL STD (R-1.4)
- 6E MOUNTABLE CONCRETE MEDIAN SURFACE. REFER TO DETAIL ON SHEET C004.1
- 7A CONVERT EXISTING CATCH BASIN TO STORM MANHOLE PER ARL CONSTR SPEC 02505 - 4.2
- 7B ADJUST EXISTING CATCH BASIN TOP TO PROPOSED GRADE PER ARL CONSTR SPEC 02500 - 3.4
- 7C CONNECT PROPOSED PIPE TO EXISTING STRUCTURE PER ARL CONSTR SPEC 02505 - 3.5
- 8A PROP STANDARD CATCH BASIN WITH EXTENDED THROATS FOR SAGS, CB-2A PER ARL STD (D-1.3)
- 8B PROP STANDARD CATCH BASIN WITH EXTENDED THROATS FOR SLOPES, CB-2B PER ARL STD (D-1.4)
- 8H REPLACE EXISTING MANHOLE FRAME AND COVER. ADJUST NEW TOP TO GRADE
- 8I PROP 15" RCP STORMWATER PIPE, ARL CONSTR SPEC 02505
- 8J PROPOSED CURB DROP INLET VDOT STD. DI-3B
- 9 PROP STANDARD MANHOLE FRAME AND COVER MH-1, VDOT ROAD & BRIDGE STANDARDS (106.02)
- 10 RELOCATE EXISTING WATER METER AND INSTALL FRAME AND COVER PROVIDED BY COUNTY ARL STD (W-8.0 AND W-9.0)
- 10A PROP. RELOCATED 12" WATER MAIN
- 10B REMOVE EXISTING FIRE HYDRANT
- 10C ADJUST EXISTING WATER APPARATUS AROUND PROPOSED IMPROVEMENTS
- 11 NEW COUNTY STANDARD OR DECORATIVE LIGHT OR COLONIAL LIGHT (TYP) ARLINGTON COUNTY STANDARD (14080, 14110, 14112)
- 11A NEW ELECTRIC CONDUIT (TYP) ARLINGTON COUNTY STANDARD (14030)
- 12 RELOCATE EXISTING SIGN
- 14 RELOCATE UTILTY POLE AND ALL GUYS BY OTHERS
- 15 PROPOSED LANDSCAPING. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
- 16 TRAFFIC SIGNAL AND PED PUSH BUTTON. WORK TO BE PERFORMED BY OTHERS
- 17 PROPOSED TABLETOP ASPHALT BIKE LANE WITH RAISED CROSSWALK
- 18 RELOCATE BUS STOP SIGN # WITH SQUARE TUBE SIGN POST (STP-1 MOD) PRE VDOT ROAD AND BRIDGE STANDARDS (1321.13).
- 19 PROPOSED ECLIPSE 4'X10' CANTILEVER BUS STOP SHELTER WITH BUS SHELTER PAD PER ARLINGTON COUNTY STANDARD (R-2.10). BUS SHELTER, SHELTER BENCH, AND HARDWARE PACKAGE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
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PLOTTED: SEPTEMBER 6 2023

SCALE:
0 5 10
VERT. SCALE
0 25 50
HORIZ. SCALE

C041.2

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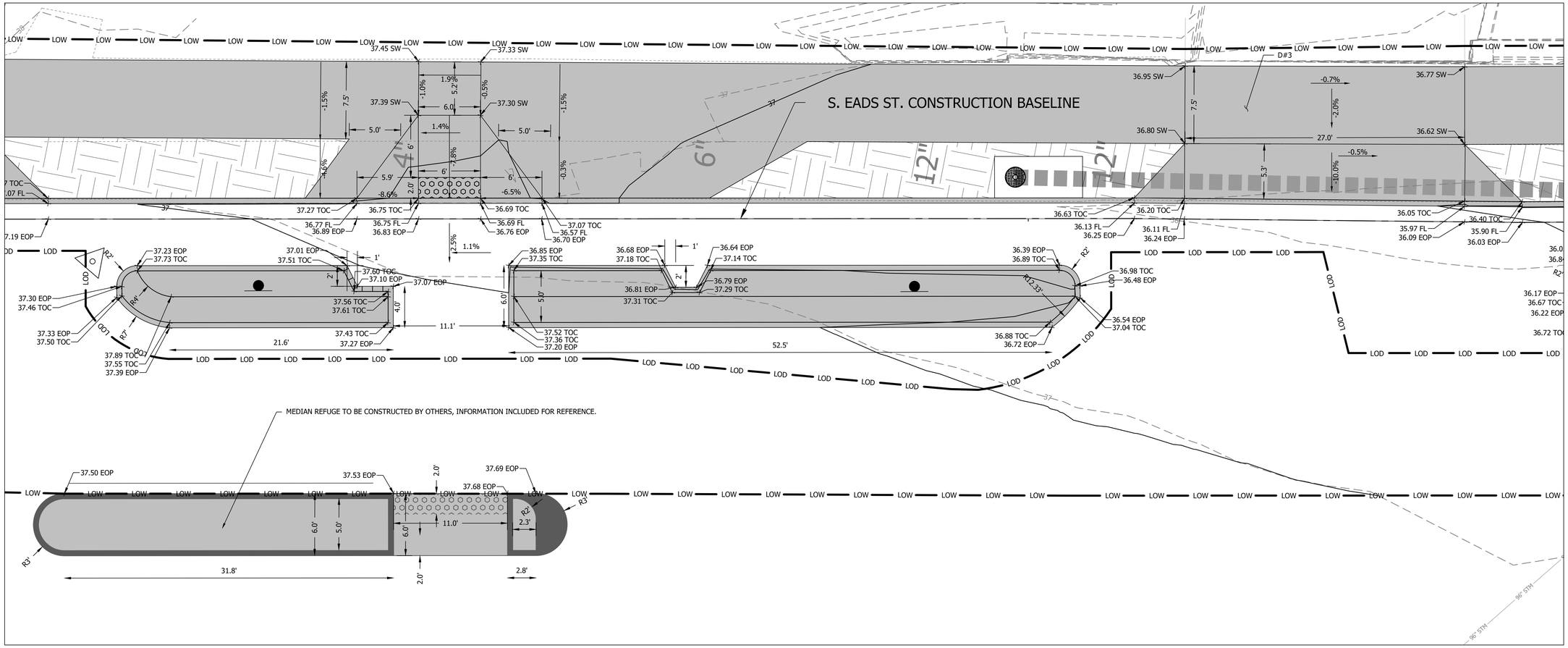

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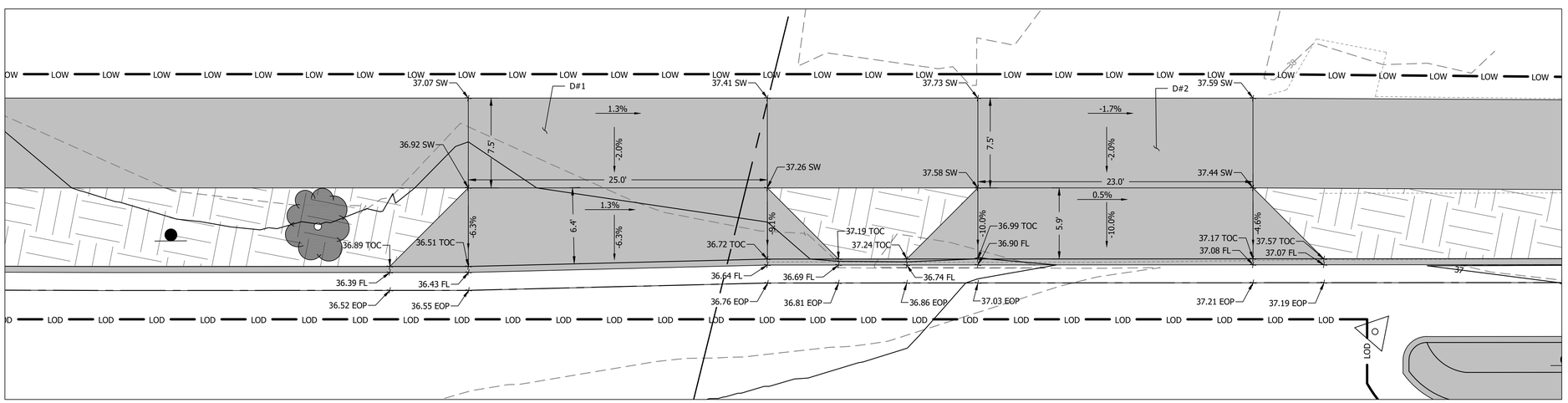
S. EADS ST. & 13TH ST. S.

HOR. SCALE: 1" = 5'



GRADING DETAIL 2

S. EADS ST. & 13TH ST. S.

HOR. SCALE: 1" = 5'

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C042.1

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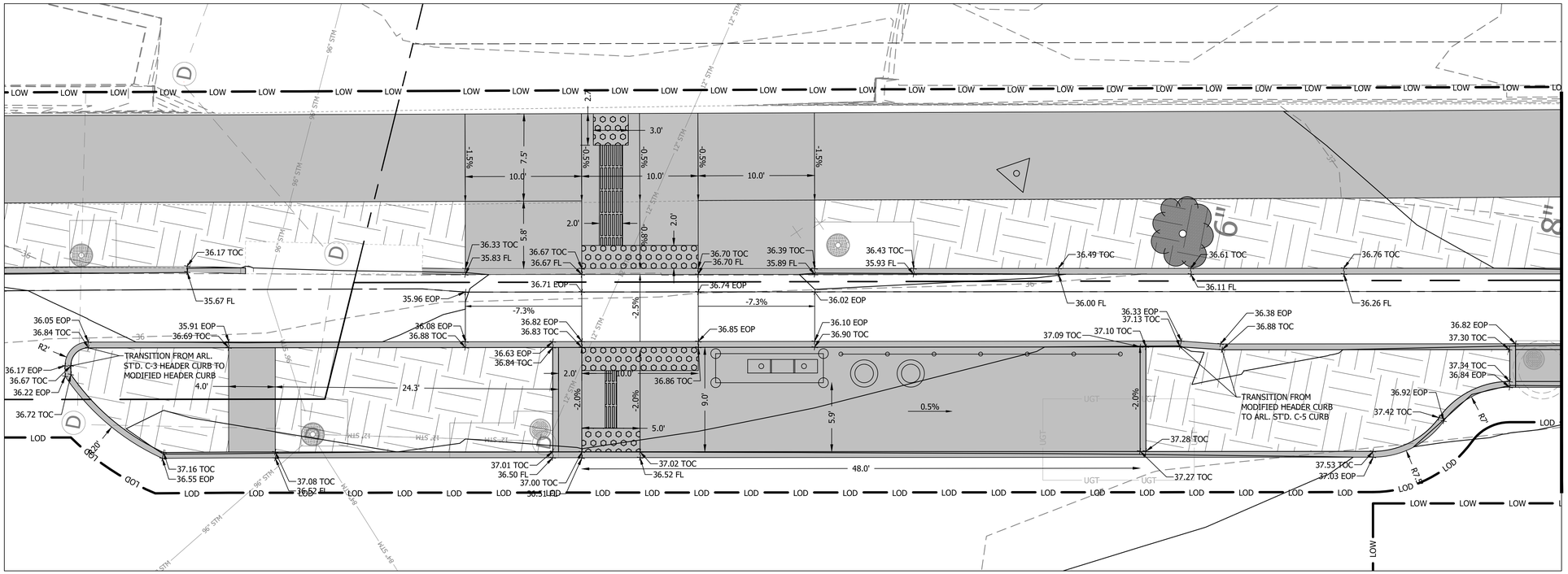

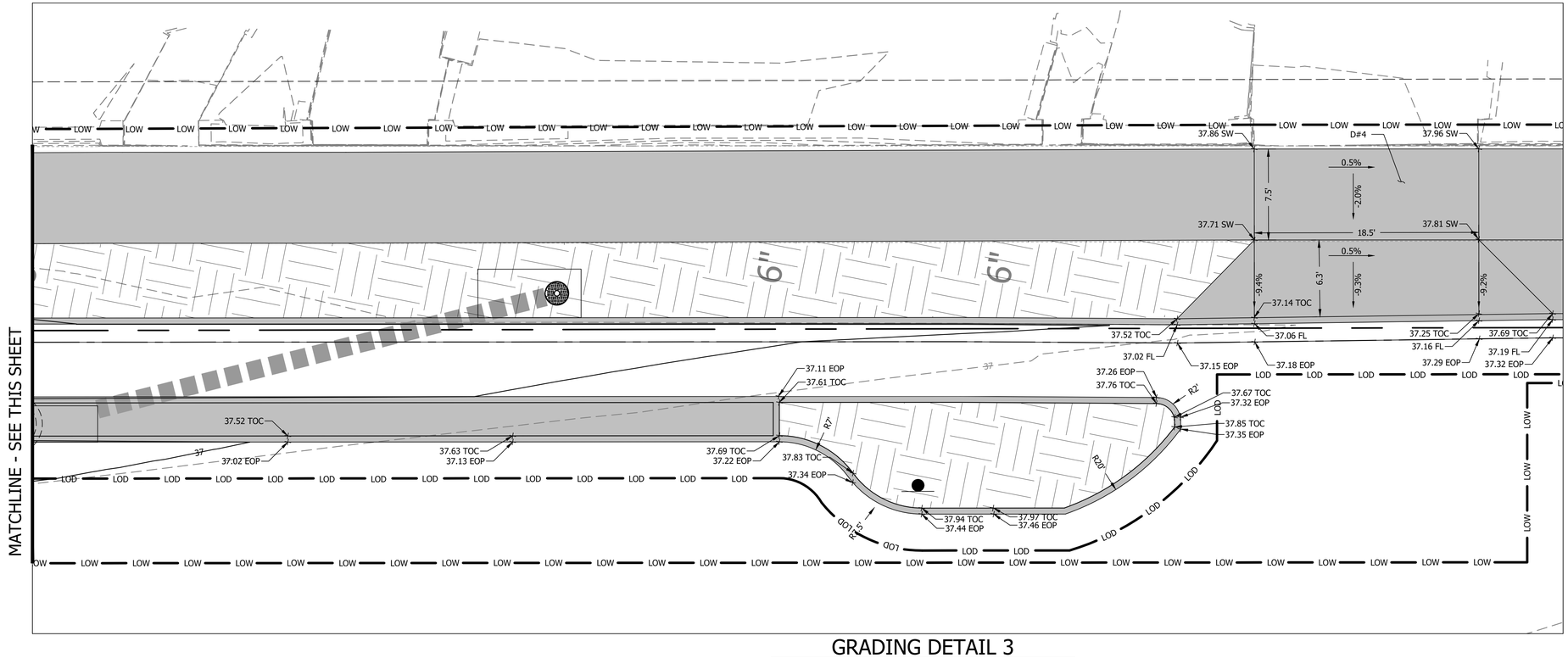

GRADING DETAIL 3

S. EADS ST. SOUTH OF 13TH ST. S

HOR. SCALE: 1" = 5'

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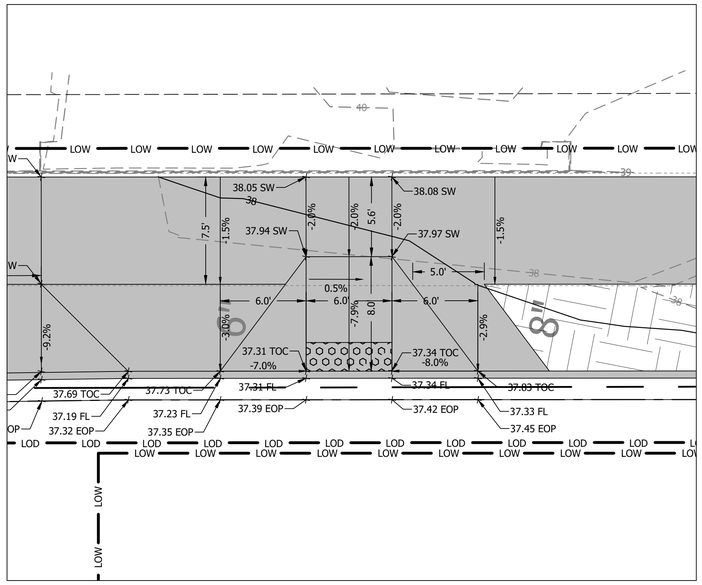

GRADING DETAIL 4

S. EADS ST. AND 14TH ST. S

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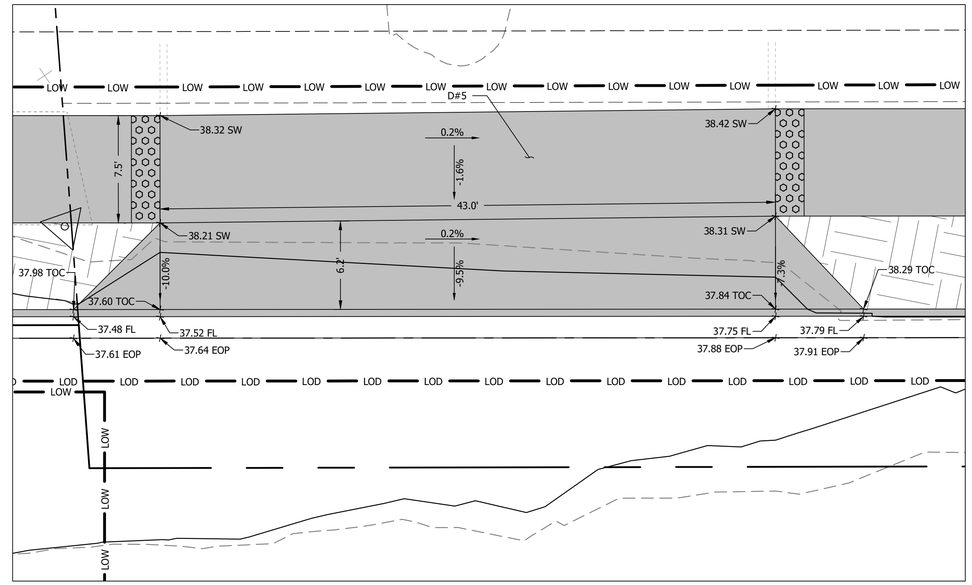

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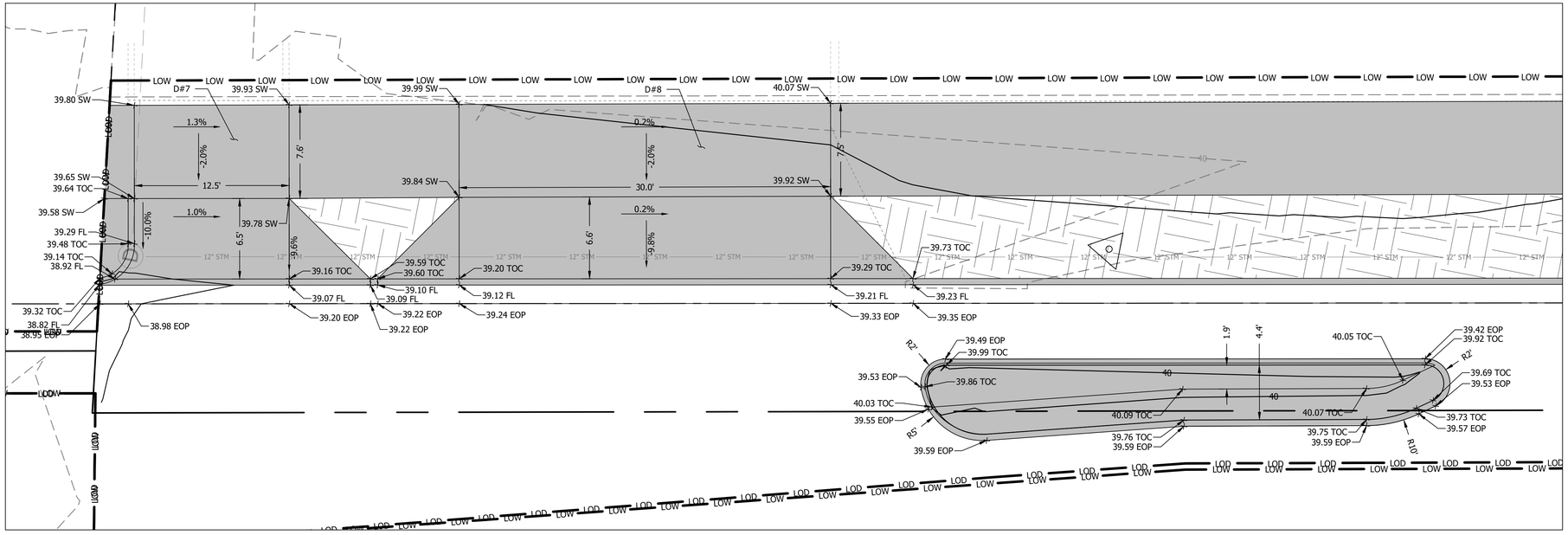

GRADING DETAIL 6

S. EADS ST. NORTH OF 15TH ST. S

HOR. SCALE: 1" = 5'

ARLINGTON VIRGINIA

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TREVOR M. LANTZY
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9/6/2023
PROFESSIONAL ENGINEER

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Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

RAMP DETAILS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 5 10

HORIZ. SCALE

C042.3

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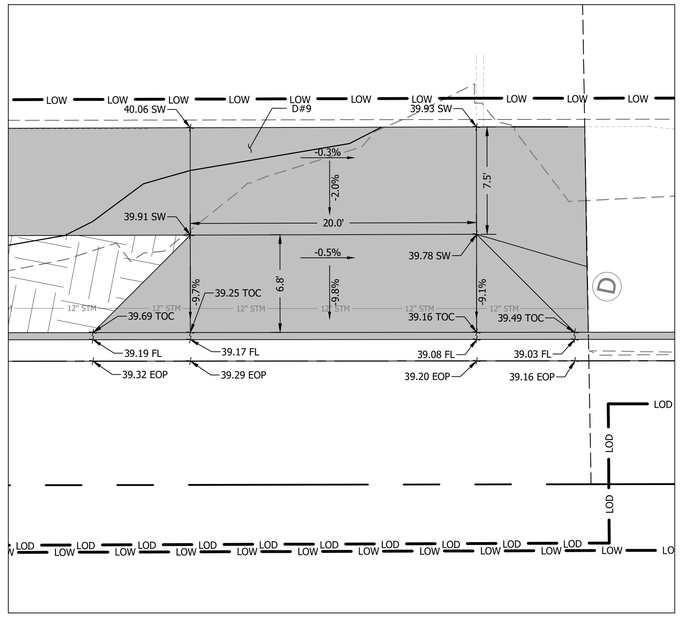

GRADING DETAIL 7

S. EADS ST. NORTH OF 15TH ST. S

HOR. SCALE: 1" = 5'

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VIRGINIA

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ENVIRONMENTAL SERVICES
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RAMP DETAILS

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SCALE:

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HORIZ. SCALE

C042.4

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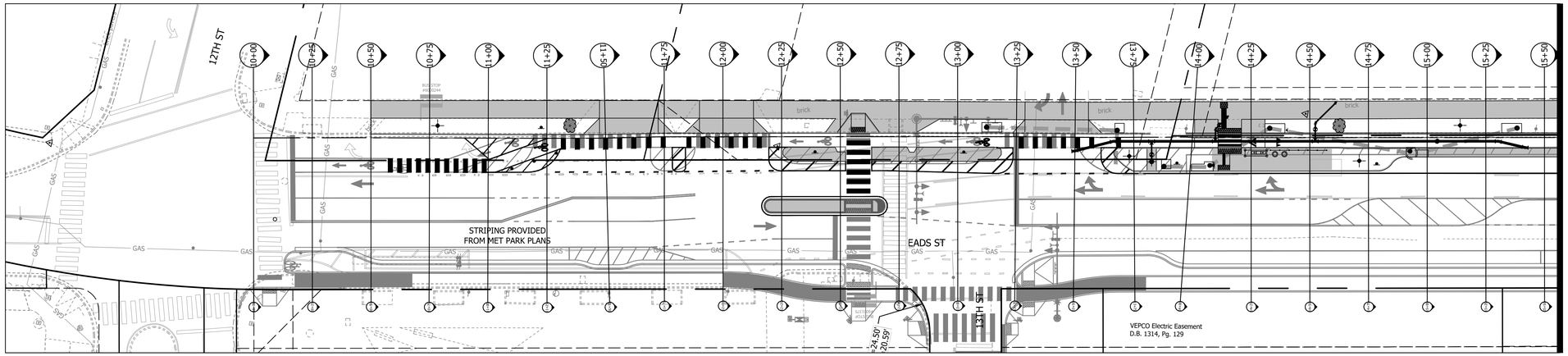
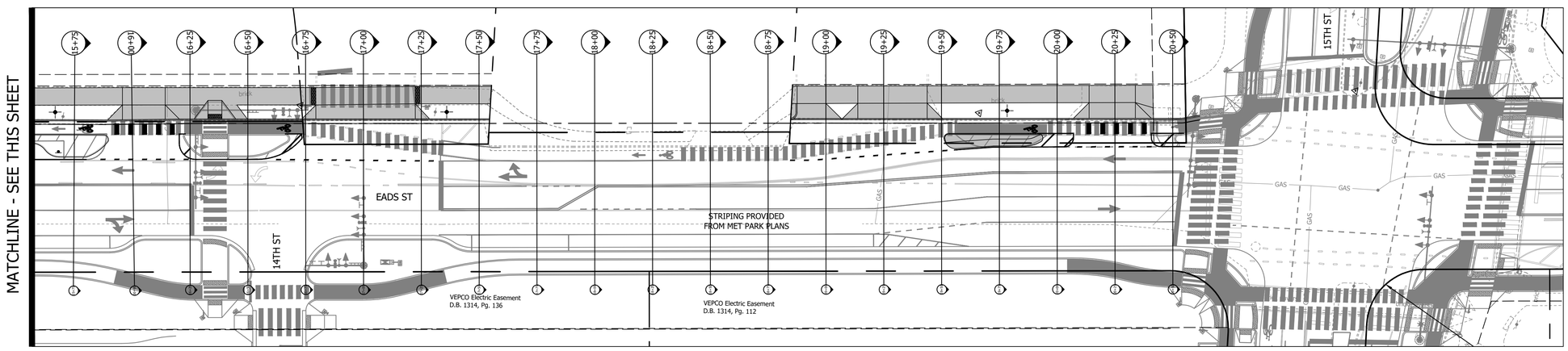
CROSS SECTION STATION LAYOUT





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DESIGNED: NS
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CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

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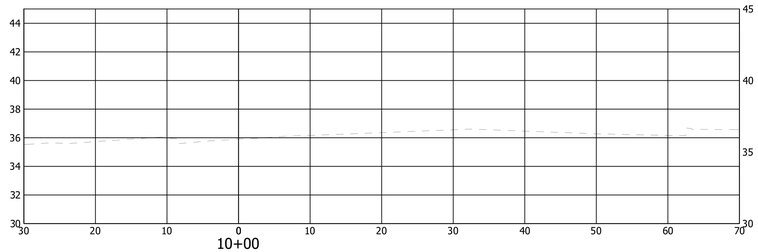
S. EADS ST. CONSTRUCTION BASELINE



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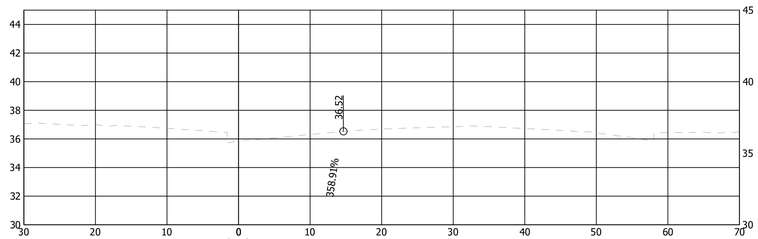

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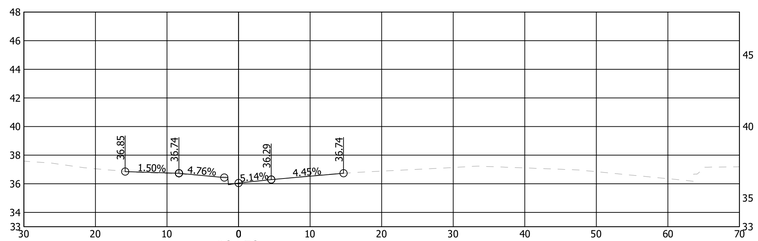

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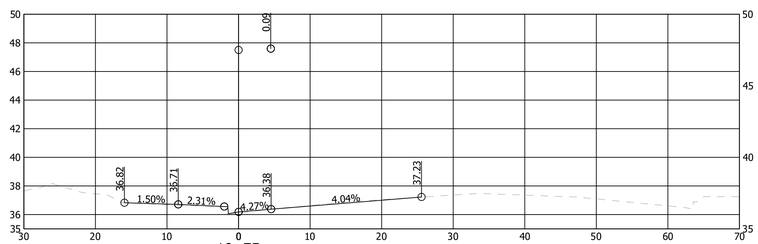

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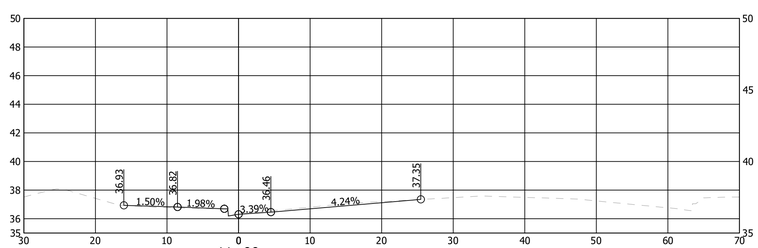

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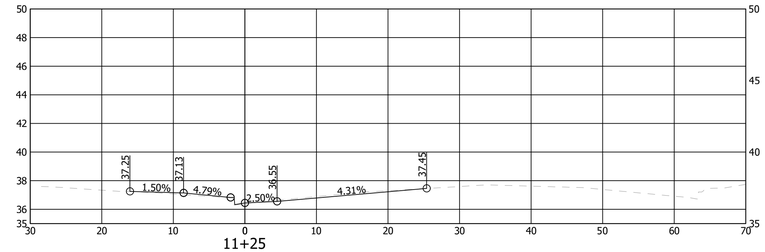

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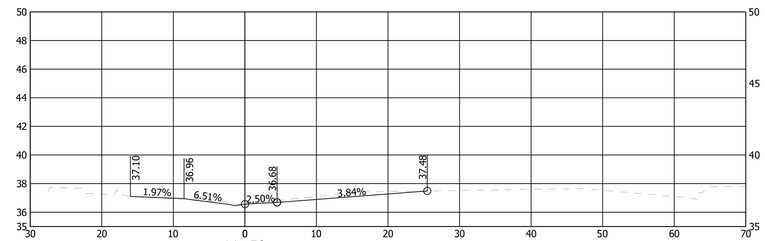

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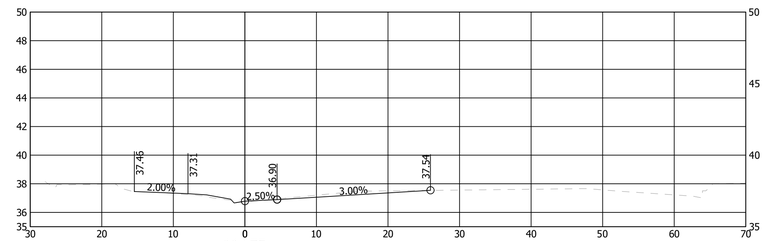

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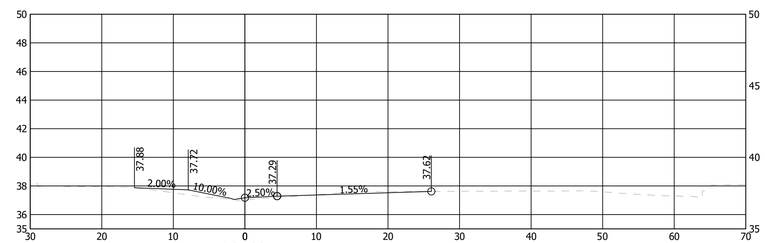

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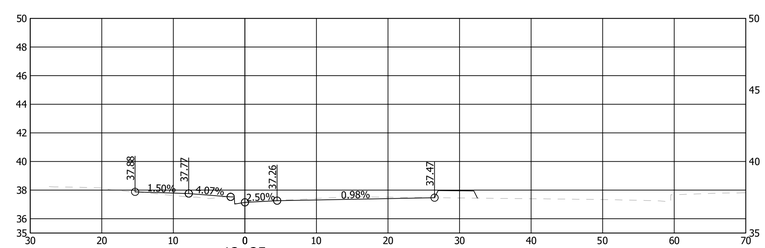

12+25

ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

CROSS SECTIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

C044.2

FILENAME: CC23-234-CROSS_SECTIONS.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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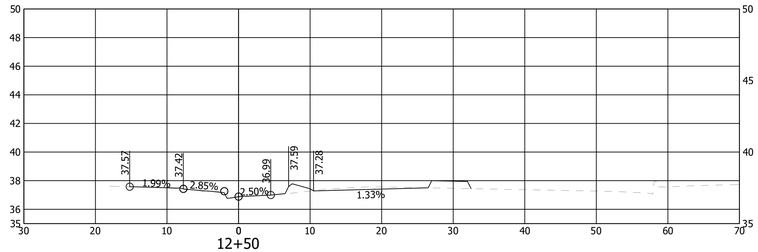
REVISED ON 01/03/2022

S. EADS ST. CONSTRUCTION BASELINE



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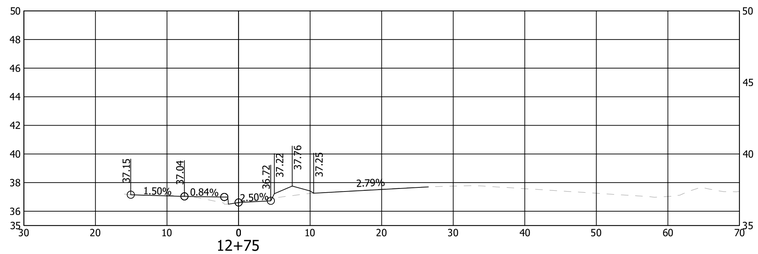

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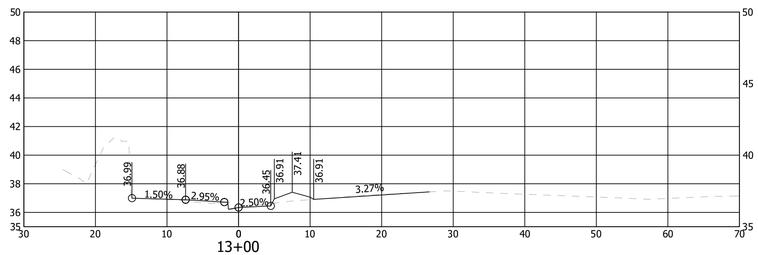

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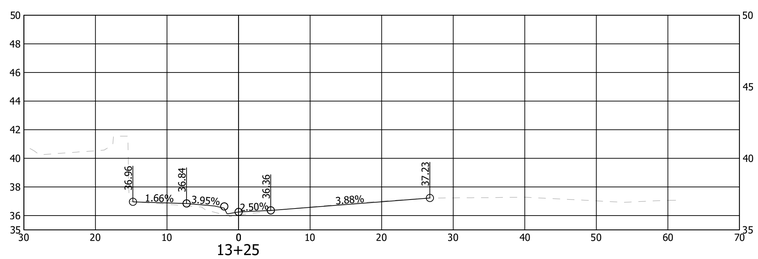

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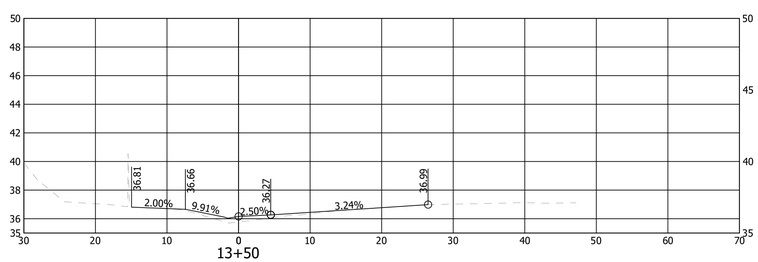

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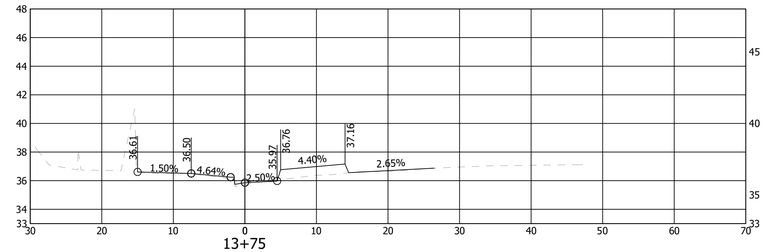

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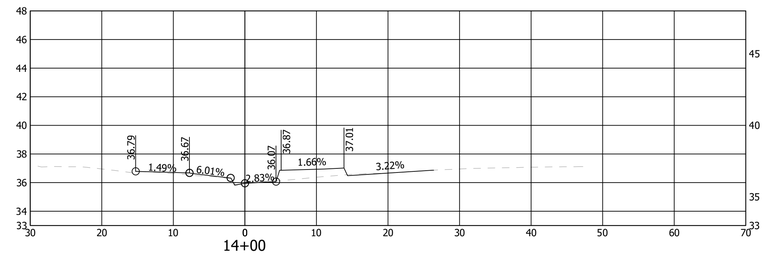

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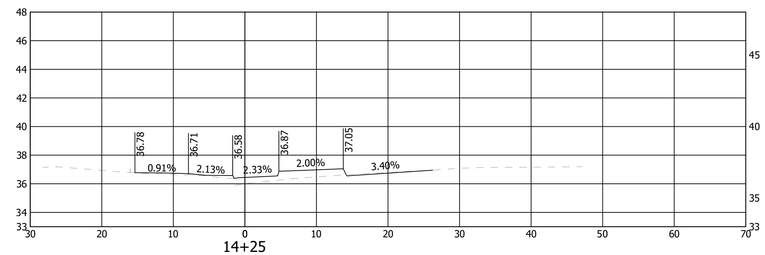

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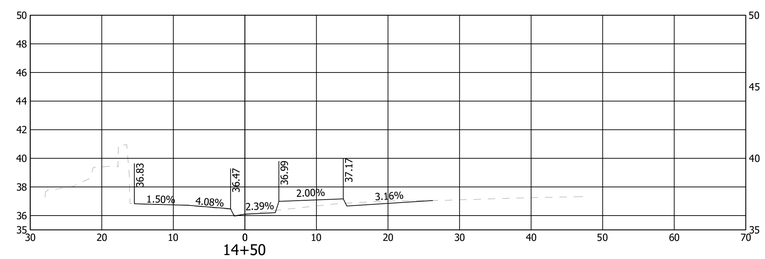

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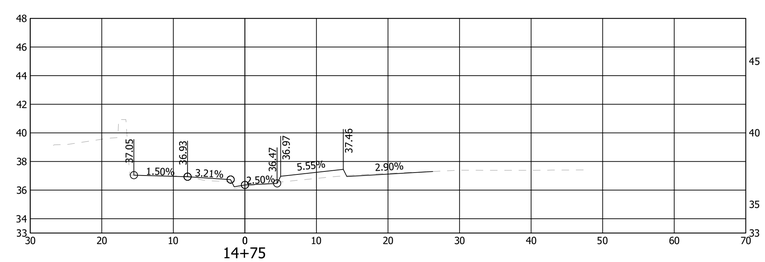

14+75

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TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
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	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

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S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

CROSS SECTIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

C044.3

FILENAME: CC23-234-CROSS_SECTIONS.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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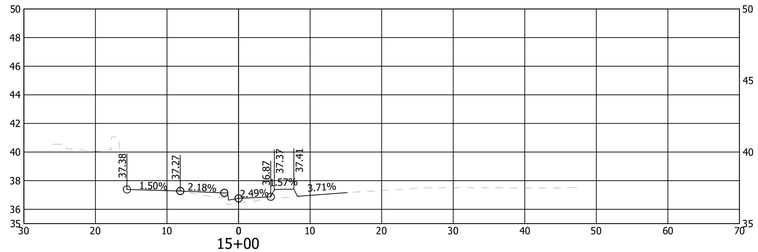
REVISED ON 01/03/2022

S. EADS ST. CONSTRUCTION BASELINE



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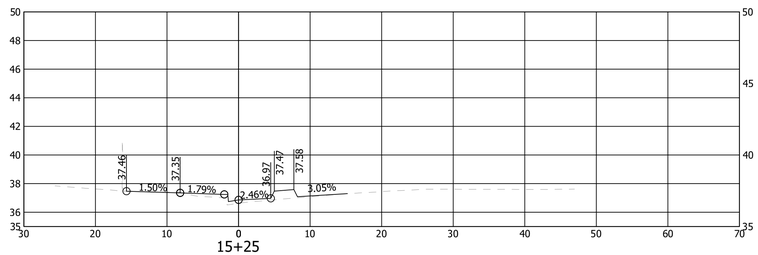

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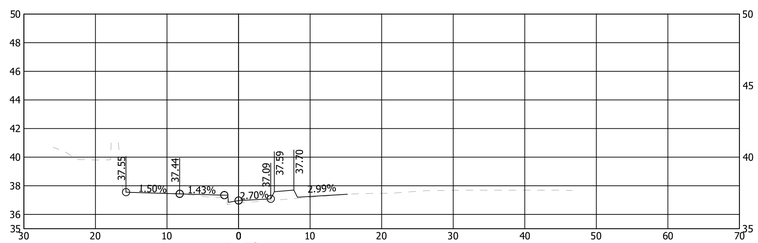

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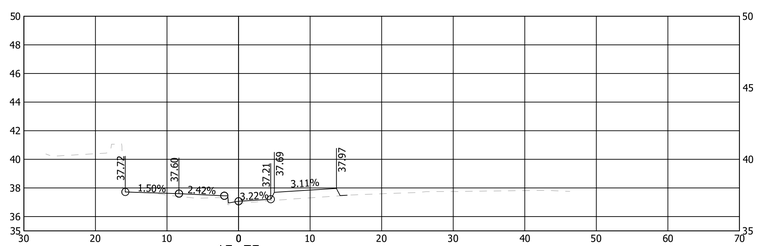

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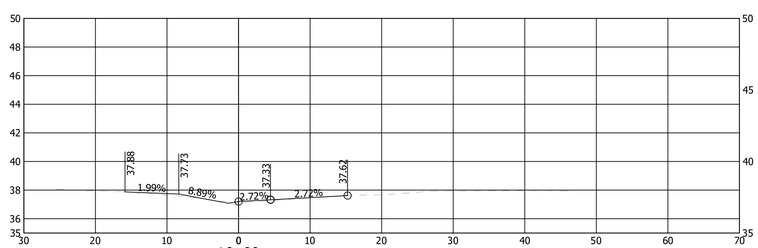

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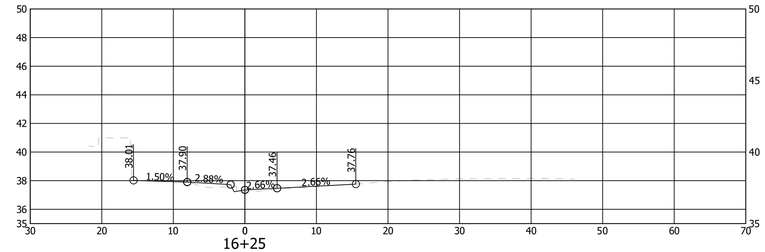

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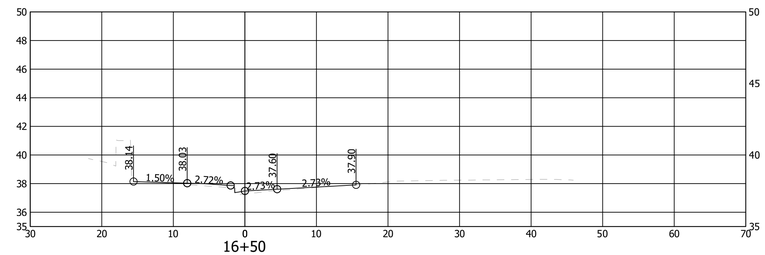

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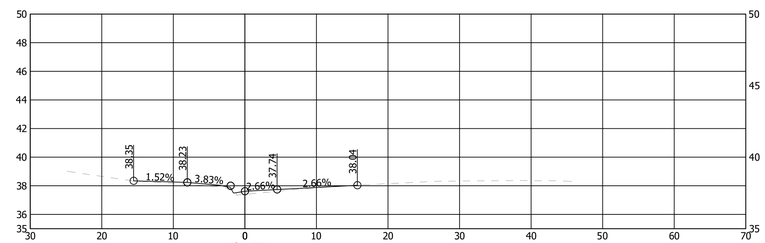

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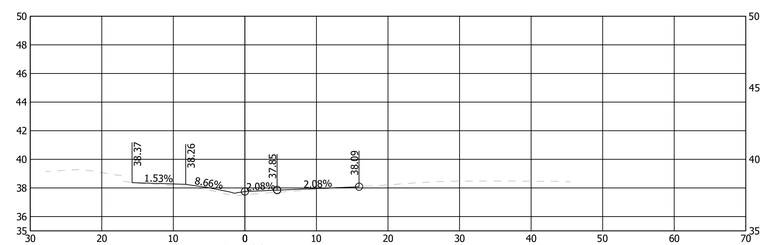

17+00

STATION 17+25.00 THROUGH STATION 18+75.00
HAVE BEEN REMOVED FROM THIS PLAN

ARLINGTON
VIRGINIA

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TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
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ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

CROSS SECTIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

C044.4

FILENAME: CC23-234-CROSS_SECTIONS.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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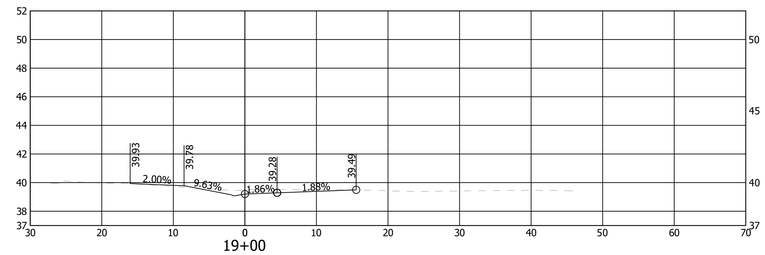
REVISED ON 01/03/2022

S. EADS ST. CONSTRUCTION BASELINE

STATION 17+25.00 THROUGH STATION 18+75.00
HAVE BEEN REMOVED FROM THIS PLAN



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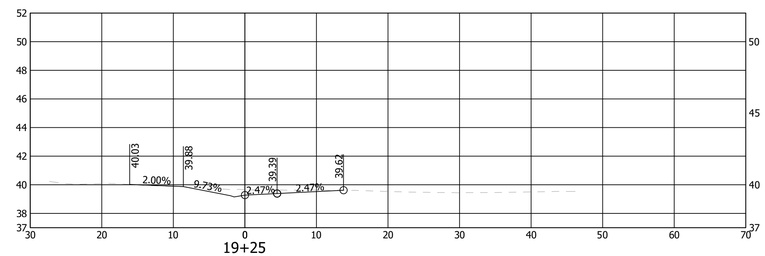

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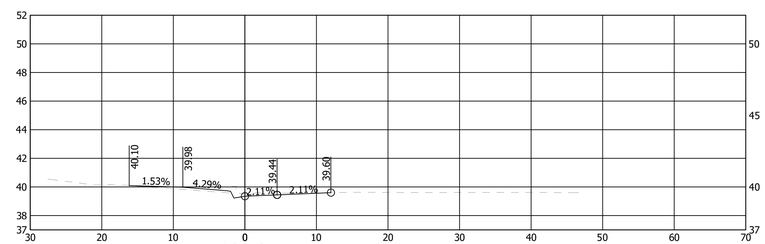

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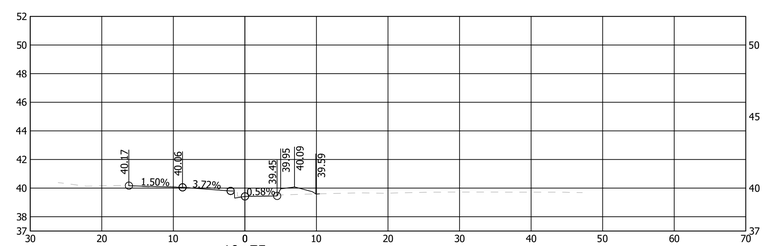

19+75

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TREVOR M. LANTZY
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9/6/2023
PROFESSIONAL ENGINEER

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	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

CROSS SECTIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

C044.5

FILENAME: CC23-234-CROSS_SECTIONS.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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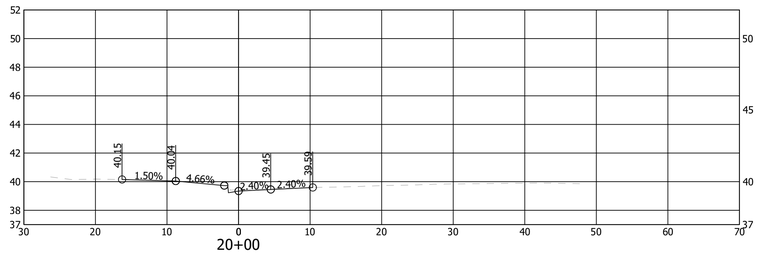
REVISED ON 01/03/2022

S. EADS ST. CONSTRUCTION BASELINE



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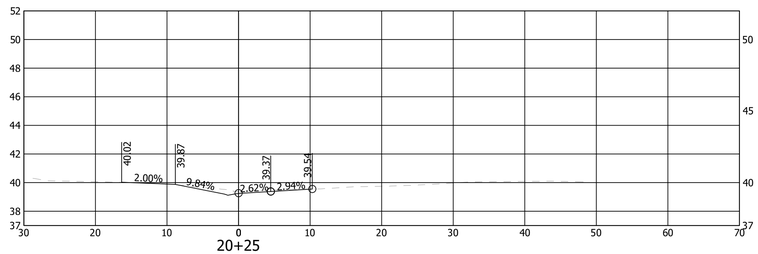

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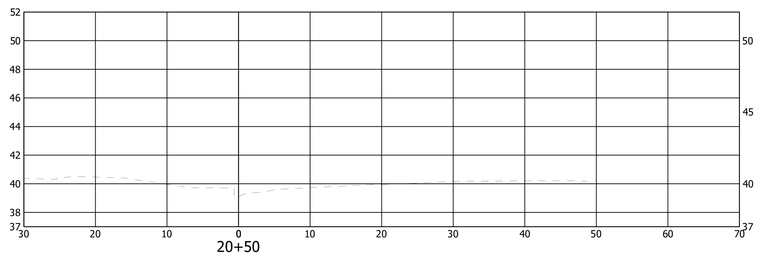

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9/6/2023
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APPROVALS	DATE
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Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

CROSS SECTIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

C044.6

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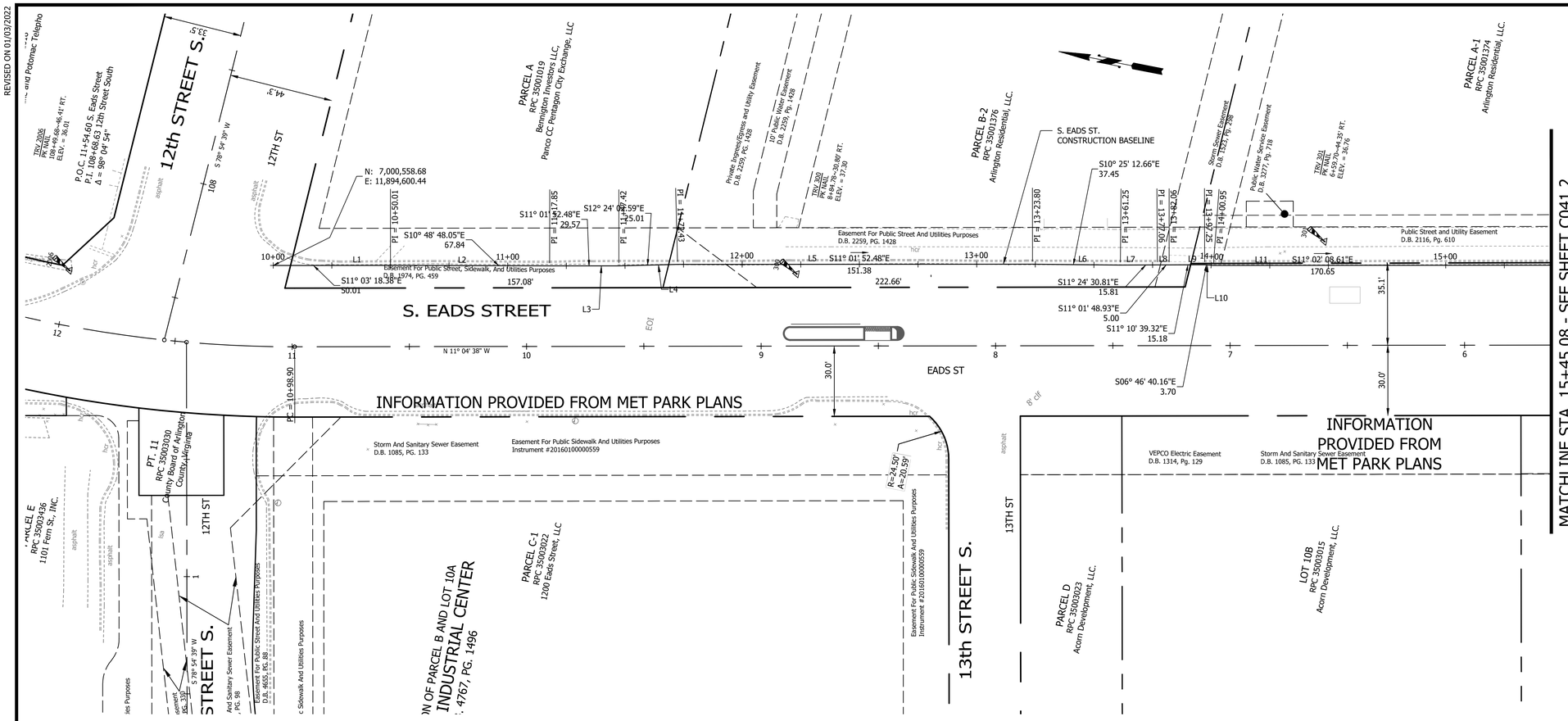
REVISED ON 01/03/2022



CURVE TABLE					
Curve #	Length	Radius	Chord Direction	Start Point	End Point
C1	1.38	6.50	S17° 08' 03"E	(11894802.2663,6999524.2604)	(11894802.6731,6999522.9406)
C2	6.32	96.50	S21° 21' 25"E	(11894802.6731,6999522.9406)	(11894804.9734,6999517.0581)

LINE SEGMENT TABLE						
Line #	Bearing	Distance	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L1	S 11° 03' 18" E	50.01'	10+00.00	10+50.01	7000558.68, 11894600.44	7000509.60, 11894610.03
L2	S 10° 48' 48" E	67.84'	10+50.01	11+17.85	7000509.60, 11894610.03	7000442.96, 11894622.75
L3	S 11° 01' 52" E	29.57'	11+17.85	11+47.42	7000442.96, 11894622.75	7000413.94, 11894628.41
L4	S 12° 24' 03" E	25.01'	11+47.42	11+72.43	7000413.94, 11894628.41	7000389.51, 11894633.78
L5	S 11° 01' 52" E	151.38'	11+72.43	13+23.80	7000389.51, 11894633.78	7000240.93, 11894662.75
L6	S 10° 25' 13" E	37.45'	13+23.80	13+61.25	7000240.93, 11894662.75	7000204.10, 11894669.52
L7	S 11° 24' 31" E	15.81'	13+61.25	13+77.06	7000204.10, 11894669.52	7000188.60, 11894672.65
L8	S 11° 01' 49" E	5.00'	13+77.06	13+82.06	7000188.60, 11894672.65	7000183.70, 11894673.61
L9	S 11° 10' 39" E	15.18'	13+82.06	13+97.25	7000183.70, 11894673.61	7000168.80, 11894676.55
L10	S 6° 46' 40" E	3.70'	13+97.25	14+00.95	7000168.80, 11894676.55	7000165.12, 11894676.99
L11	S 11° 02' 09" E	170.65'	14+00.95	15+71.60	7000165.12, 11894676.99	6999997.63, 11894709.65
L12	S 10° 38' 49" E	17.81'	15+71.60	15+89.41	6999997.63, 11894709.65	6999980.13, 11894712.94
L13	S 11° 47' 25" E	30.94'	15+89.41	16+20.35	6999980.13, 11894712.94	6999949.83, 11894719.27
L14	S 11° 02' 10" E	433.59'	16+20.35	20+53.95	6999949.83, 11894719.27	6999524.26, 11894802.27

BENCHMARK TABLE		
BM#	NORTHING	EASTING
300	7,000,338.90	11,894,639.48
301	7,000,120.62	11,894,696.03

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S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

GEOMETRIC CONTROL PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 25 50
GRAPHIC SCALE

C045.1

FILENAME: CXXX GEOMETRIC CONTROL PLAN.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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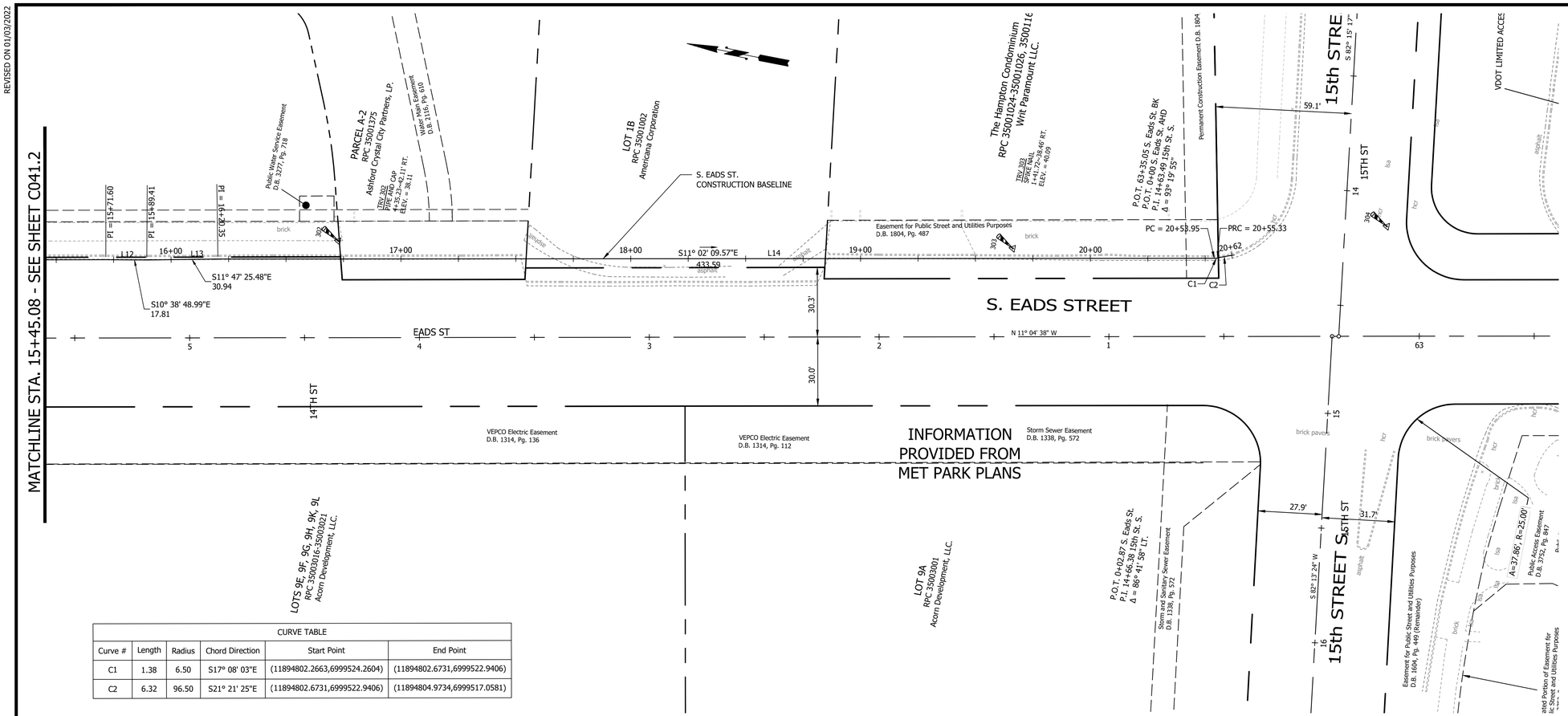
REVISED ON 01/03/2022



CURVE TABLE					
Curve #	Length	Radius	Chord Direction	Start Point	End Point
C1	1.38	6.50	S17° 08' 03"E	(11894802.2663,6999524.2604)	(11894802.6731,6999522.9406)
C2	6.32	96.50	S21° 21' 25"E	(11894802.6731,6999522.9406)	(11894804.9734,6999517.0581)

LINE SEGMENT TABLE						
Line #	Bearing	Distance	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L1	S 11° 03' 18" E	50.01'	10+00.00	10+50.01	7000558.68, 11894600.44	7000509.60, 11894610.03
L2	S 10° 48' 48" E	67.84'	10+50.01	11+17.85	7000509.60, 11894610.03	7000442.96, 11894622.75
L3	S 11° 01' 52" E	29.57'	11+17.85	11+47.42	7000442.96, 11894622.75	7000413.94, 11894628.41
L4	S 12° 24' 03" E	25.01'	11+47.42	11+72.43	7000413.94, 11894628.41	7000389.51, 11894633.78
L5	S 11° 01' 52" E	151.38'	11+72.43	13+23.80	7000389.51, 11894633.78	7000240.93, 11894662.75
L6	S 10° 25' 13" E	37.45'	13+23.80	13+61.25	7000240.93, 11894662.75	7000204.10, 11894669.52
L7	S 11° 24' 31" E	15.81'	13+61.25	13+77.06	7000204.10, 11894669.52	7000188.60, 11894672.65
L8	S 11° 01' 49" E	5.00'	13+77.06	13+82.06	7000188.60, 11894672.65	7000183.70, 11894673.61
L9	S 11° 10' 39" E	15.18'	13+82.06	13+97.25	7000183.70, 11894673.61	7000168.80, 11894676.55
L10	S 6° 46' 40" E	3.70'	13+97.25	14+00.95	7000168.80, 11894676.55	7000165.12, 11894676.99
L11	S 11° 02' 09" E	170.65'	14+00.95	15+71.60	7000165.12, 11894676.99	6999997.63, 11894709.65
L12	S 10° 38' 49" E	17.81'	15+71.60	15+89.41	6999997.63, 11894709.65	6999980.13, 11894712.94
L13	S 11° 47' 25" E	30.94'	15+89.41	16+20.35	6999980.13, 11894712.94	6999949.83, 11894719.27
L14	S 11° 02' 10" E	433.59'	16+20.35	20+53.95	6999949.83, 11894719.27	6999524.26, 11894802.27

BENCHMARK TABLE		
BM#	NORTHING	EASTING
302	6,999,899.90	11,894,736.96
303	6,999,611.15	11,894,789.77

ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
PROJECT MANAGER (Mark Dennis)	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

GEOMETRIC CONTROL PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 25 50
GRAPHIC SCALE

C045.2

FILENAME: CXXX GEOMETRIC CONTROL PLAN.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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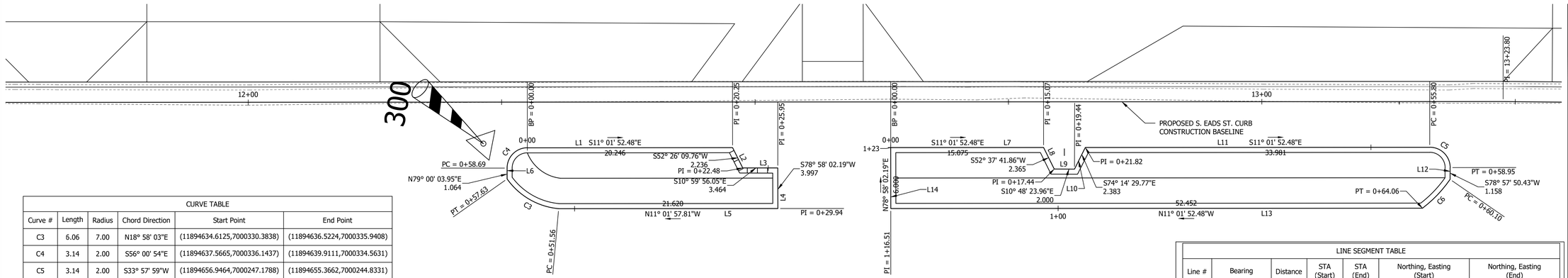
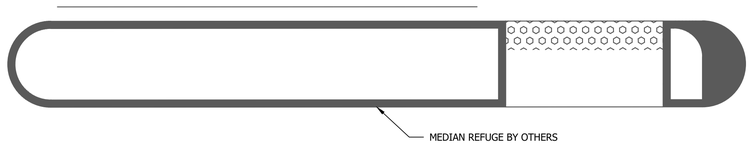
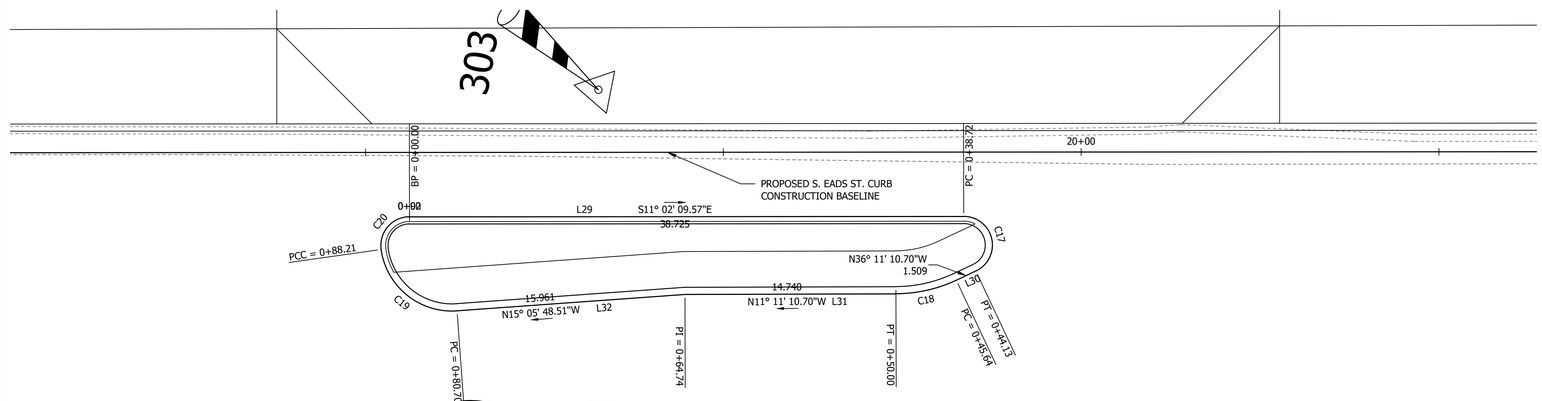
REVISED ON 01/03/2022



CURVE TABLE					
Curve #	Length	Radius	Chord Direction	Start Point	End Point
C3	6.06	7.00	N18° 58' 03"E	(11894634.6125,7000330.3838)	(11894636.5224,7000335.9408)
C4	3.14	2.00	S56° 00' 54"E	(11894637.5665,7000336.1437)	(11894639.9111,7000334.5631)
C5	3.14	2.00	S33° 57' 59"W	(11894656.9464,7000247.1788)	(11894655.3662,7000244.8331)
C6	3.96	12.33	N57° 12' 53"W	(11894654.2300,7000244.6115)	(11894650.9181,7000246.7448)
C17	5.41	2.00	S66° 23' 20"W	(11894785.9508,6999584.4076)	(11894782.3736,6999582.8439)
C18	4.36	10.00	N23° 41' 11"W	(11894781.4825,6999584.0621)	(11894779.7435,6999588.0262)
C19	7.51	5.00	N27° 55' 21"E	(11894772.7270,6999617.8958)	(11894775.9218,6999623.9239)
C20	3.42	2.00	S60° 02' 50"E	(11894775.9218,6999623.9239)	(11894778.5379,6999622.4164)



LINE SEGMENT TABLE						
Line #	Bearing	Distance	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L1	S 11° 01' 52" E	20.25'	0+00.00	0+20.25	7000334.56, 11894639.91	7000314.69, 11894643.79
L2	S 52° 26' 10" W	2.24'	0+20.25	0+22.48	7000314.69, 11894643.79	7000313.33, 11894642.01
L3	S 10° 59' 56" E	3.46'	0+22.48	0+25.95	7000313.33, 11894642.01	7000309.93, 11894642.67
L4	S 78° 58' 02" W	4.00'	0+25.95	0+29.94	7000309.93, 11894642.67	7000309.16, 11894638.75
L5	N 11° 01' 58" W	21.62'	0+29.94	0+51.56	7000309.16, 11894638.75	7000330.38, 11894634.61
L6	N 79° 00' 04" E	1.06'	0+57.63	0+58.69	7000335.94, 11894636.52	7000336.14, 11894637.57
L7	S 11° 01' 52" E	15.07'	0+00.00	0+15.07	7000299.38, 11894646.77	7000284.58, 11894649.66
L8	S 52° 37' 42" W	2.36'	0+15.07	0+17.44	7000284.58, 11894649.66	7000283.14, 11894647.78
L9	S 10° 48' 24" E	2.00'	0+17.44	0+19.44	7000283.14, 11894647.78	7000281.18, 11894648.15
L10	S 74° 14' 30" E	2.38'	0+19.44	0+21.82	7000281.18, 11894648.15	7000280.53, 11894650.44
L11	S 11° 01' 52" E	33.98'	0+21.82	0+55.80	7000280.53, 11894650.44	7000247.18, 11894656.95
L12	S 78° 57' 50" W	1.16'	0+58.95	0+60.10	7000244.83, 11894655.37	7000244.61, 11894654.23
L13	N 11° 01' 52" W	52.45'	0+64.06	1+16.51	7000246.74, 11894650.92	7000298.23, 11894640.88
L14	N 78° 58' 02" E	6.00'	1+16.51	1+22.51	7000298.23, 11894640.88	7000299.38, 11894646.77
L17	S 11° 03' 21" E	93.86'	0+00.00	0+93.86	7000196.08, 11894666.59	7000103.97, 11894684.59
L18	S 6° 42' 10" E	3.38'	0+93.86	0+97.23	7000103.97, 11894684.59	7000100.62, 11894684.98
L21	S 11° 02' 09" E	105.79'	0+97.23	2+03.02	7000100.62, 11894684.98	6999996.78, 11894705.23
L22	S 10° 38' 49" E	16.12'	2+03.02	2+19.14	6999996.78, 11894705.23	6999980.94, 11894708.21
L23	S 78° 57' 50" W	0.60'	2+22.27	2+22.87	6999978.61, 11894706.63	6999978.49, 11894706.04
L24	N 11° 02' 10" W	11.86'	2+34.83	2+46.69	6999986.45, 11894697.35	6999998.09, 11894695.08
L25	N 11° 02' 09" W	66.00'	2+60.36	3+26.36	7000010.75, 11894698.70	7000075.53, 11894686.07
L26	N 11° 02' 09" W	98.25'	3+40.05	4+38.30	7000085.91, 11894677.93	7000182.34, 11894659.12
L27	N 11° 24' 31" W	5.71'	4+38.30	4+44.00	7000182.34, 11894659.12	7000187.94, 11894657.99
L28	N 79° 00' 24" E	0.94'	4+55.08	4+56.02	7000197.48, 11894663.32	7000197.66, 11894664.25
L29	S 11° 02' 10" E	38.72'	0+00.00	0+38.72	6999622.42, 11894778.54	6999584.41, 11894785.95
L30	N 36° 11' 11" W	1.51'	0+44.13	0+45.64	6999582.84, 11894782.37	6999584.06, 11894781.48
L31	N 11° 11' 11" W	14.74'	0+50.00	0+64.74	6999588.03, 11894779.74	6999602.49, 11894776.88
L32	N 15° 05' 49" W	15.96'	0+64.74	0+80.70	6999602.49, 11894776.88	6999617.90, 11894772.73



S. EADS STREET

BENCHMARK TABLE		
BM#	NORTHING	EASTING
300	7,000,338.90	11,894,639.48
301	7,000,120.62	11,894,696.03
303	6,999,611.15	11,894,789.77

ARLINGTON VIRGINIA
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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

GEOMETRIC CONTROL PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 5 20
GRAPHIC SCALE

C045.3

FILENAME: CXXX GEOMETRIC CONTROL PLAN MEDIAN.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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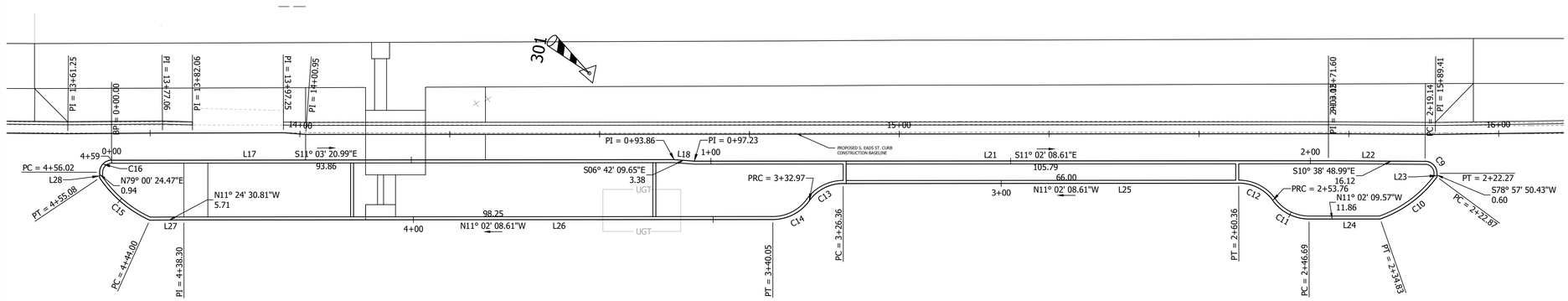

LINE SEGMENT TABLE						
Line #	Bearing	Distance	STA (Start)	STA (End)	Northing, Easting (Start)	Northing, Easting (End)
L1	S 11° 01' 52" E	20.25'	0+00.00	0+20.25	7000334.56, 11894639.91	7000314.69, 11894643.79
L2	S 52° 26' 10" W	2.24'	0+20.25	0+22.48	7000314.69, 11894643.79	7000313.33, 11894642.01
L3	S 10° 59' 56" E	3.46'	0+22.48	0+25.95	7000313.33, 11894642.01	7000309.93, 11894642.67
L4	S 78° 58' 02" W	4.00'	0+25.95	0+29.94	7000309.93, 11894642.67	7000309.16, 11894638.75
L5	N 11° 01' 58" W	21.62'	0+29.94	0+51.56	7000309.16, 11894638.75	7000330.38, 11894634.61
L6	N 79° 00' 04" E	1.06'	0+57.63	0+58.69	7000335.94, 11894636.52	7000336.14, 11894637.57
L7	S 11° 01' 52" E	15.07'	0+00.00	0+15.07	7000299.38, 11894646.77	7000284.58, 11894649.66
L8	S 52° 37' 42" W	2.36'	0+15.07	0+17.44	7000284.58, 11894649.66	7000283.14, 11894647.78
L9	S 10° 48' 24" E	2.00'	0+17.44	0+19.44	7000283.14, 11894647.78	7000281.18, 11894648.15
L10	S 74° 14' 30" E	2.38'	0+19.44	0+21.82	7000281.18, 11894648.15	7000280.53, 11894650.44
L11	S 11° 01' 52" E	33.98'	0+21.82	0+55.80	7000280.53, 11894650.44	7000247.18, 11894656.95
L12	S 78° 57' 50" W	1.16'	0+58.95	0+60.10	7000244.83, 11894655.37	7000244.61, 11894654.23
L13	N 11° 01' 52" W	52.45'	0+64.06	1+16.51	7000246.74, 11894650.92	7000298.23, 11894640.88
L14	N 78° 58' 02" E	6.00'	1+16.51	1+22.51	7000298.23, 11894640.88	7000299.38, 11894646.77
L17	S 11° 03' 21" E	93.86'	0+00.00	0+93.86	7000196.08, 11894666.59	7000103.97, 11894684.59
L18	S 6° 42' 10" E	3.38'	0+93.86	0+97.23	7000103.97, 11894684.59	7000100.62, 11894684.98
L21	S 11° 02' 09" E	105.79'	0+97.23	2+03.02	7000100.62, 11894684.98	6999996.78, 11894705.23
L22	S 10° 38' 49" E	16.12'	2+03.02	2+19.14	6999996.78, 11894705.23	6999980.94, 11894708.21
L23	S 78° 57' 50" W	0.60'	2+22.27	2+22.87	6999978.61, 11894706.63	6999978.49, 11894706.04
L24	N 11° 02' 10" W	11.86'	2+34.83	2+46.69	6999986.45, 11894697.35	6999998.09, 11894695.08
L25	N 11° 02' 09" W	66.00'	2+60.36	3+26.36	7000010.75, 11894698.70	7000075.53, 11894686.07
L26	N 11° 02' 09" W	98.25'	3+40.05	4+38.30	7000085.91, 11894677.93	7000182.34, 11894659.12
L27	N 11° 24' 31" W	5.71'	4+38.30	4+44.00	7000182.34, 11894659.12	7000187.94, 11894657.99
L28	N 79° 00' 24" E	0.94'	4+55.08	4+56.02	7000197.48, 11894663.32	7000197.66, 11894664.25
L29	S 11° 02' 10" E	38.72'	0+00.00	0+38.72	6999622.42, 11894778.54	6999584.41, 11894785.95
L30	N 36° 11' 11" W	1.51'	0+44.13	0+45.64	6999582.84, 11894782.37	6999584.06, 11894781.48
L31	N 11° 11' 11" W	14.74'	0+50.00	0+64.74	6999588.03, 11894779.74	6999602.49, 11894776.88
L32	N 15° 05' 49" W	15.96'	0+64.74	0+80.70	6999602.49, 11894776.88	6999617.90, 11894772.73

CURVE TABLE					
Curve #	Length	Radius	Chord Direction	Start Point	End Point
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C5	3.14	2.00	S33° 57' 59"W	(11894656.9464,7000247.1788)	(11894655.3662,7000244.8331)
C6	3.96	12.33	N57° 12' 53"W	(11894654.2300,7000244.6115)	(11894650.9181,7000246.7448)
C9	3.13	2.00	S34° 09' 31"W	(11894708.2109,6999980.9394)	(11894706.6282,6999978.6069)
C10	11.96	20.00	N47° 28' 54"W	(11894706.0353,6999978.4913)	(11894697.3502,6999986.4548)
C11	7.07	7.50	N15° 57' 25"E	(11894695.0801,6999998.0946)	(11894696.9518,7000004.6405)
C12	6.60	7.00	N15° 57' 28"E	(11894696.9518,7000004.6405)	(11894698.6988,7000010.7501)
C13	6.61	7.00	N38° 05' 30"W	(11894686.0650,7000075.5296)	(11894682.1365,7000080.5414)
C14	7.08	7.50	N38° 05' 30"W	(11894682.1365,7000080.5414)	(11894677.9273,7000085.9112)
C15	11.08	20.00	N29° 11' 11"E	(11894657.9919,7000187.9355)	(11894663.3248,7000197.4830)
C16	3.14	2.00	S56° 01' 28"E	(11894664.2456,7000197.6619)	(11894666.5899,7000196.0821)
C17	5.41	2.00	S66° 23' 20"W	(11894785.9508,6999584.4076)	(11894782.3736,6999582.8439)
C18	4.36	10.00	N23° 41' 11"W	(11894781.4825,6999584.0621)	(11894779.7435,6999588.0262)
C19	7.51	5.00	N27° 55' 21"E	(11894772.7270,6999617.8958)	(11894775.9218,6999623.9239)
C20	3.42	2.00	S60° 02' 50"E	(11894775.9218,6999623.9239)	(11894778.5379,6999622.4164)

BENCHMARK TABLE		
BM#	NORTHING	EASTING
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ARLINGTON, VA 22201
PHONE: 703.228.3629
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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

GEOMETRIC CONTROL PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 25 50
GRAPHIC SCALE

C045.4

FILENAME: CXXX GEOMETRIC CONTROL PLAN MEDIAN.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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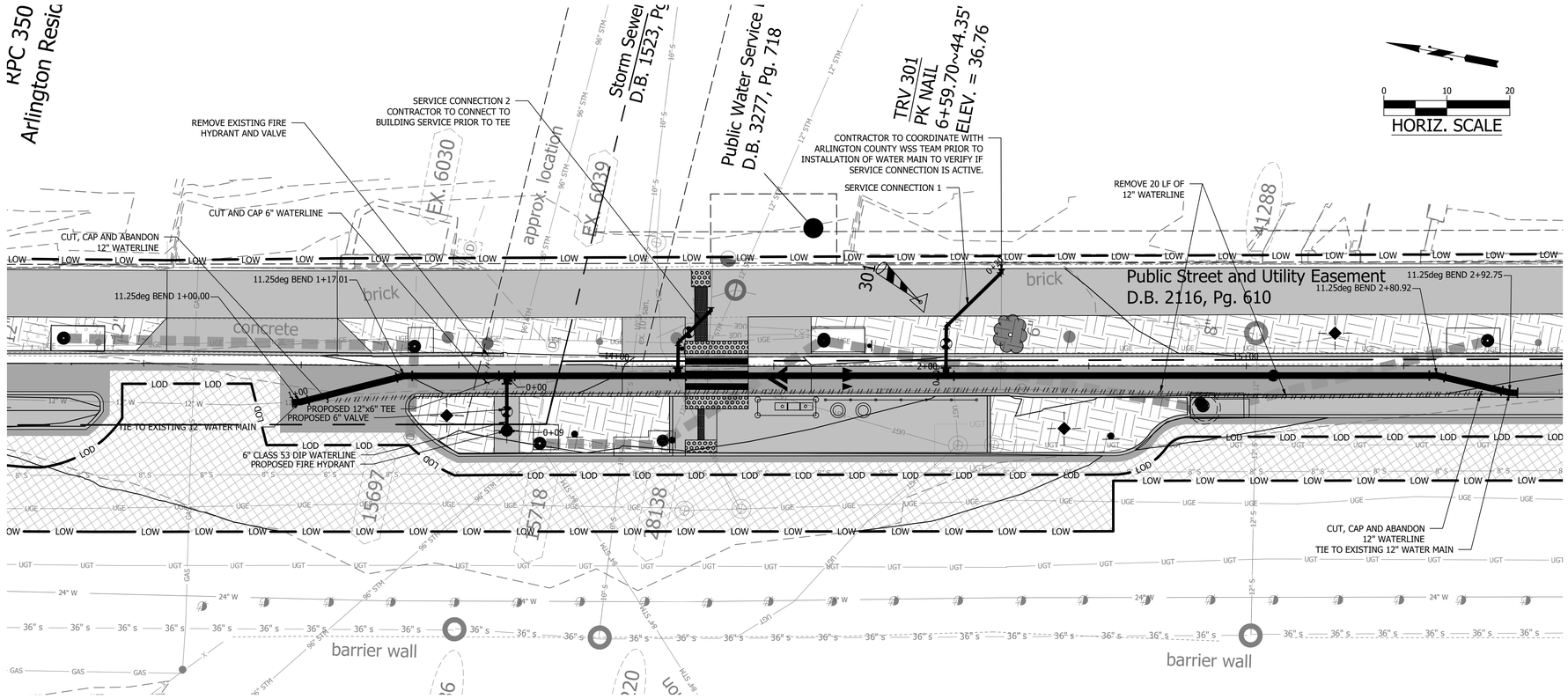
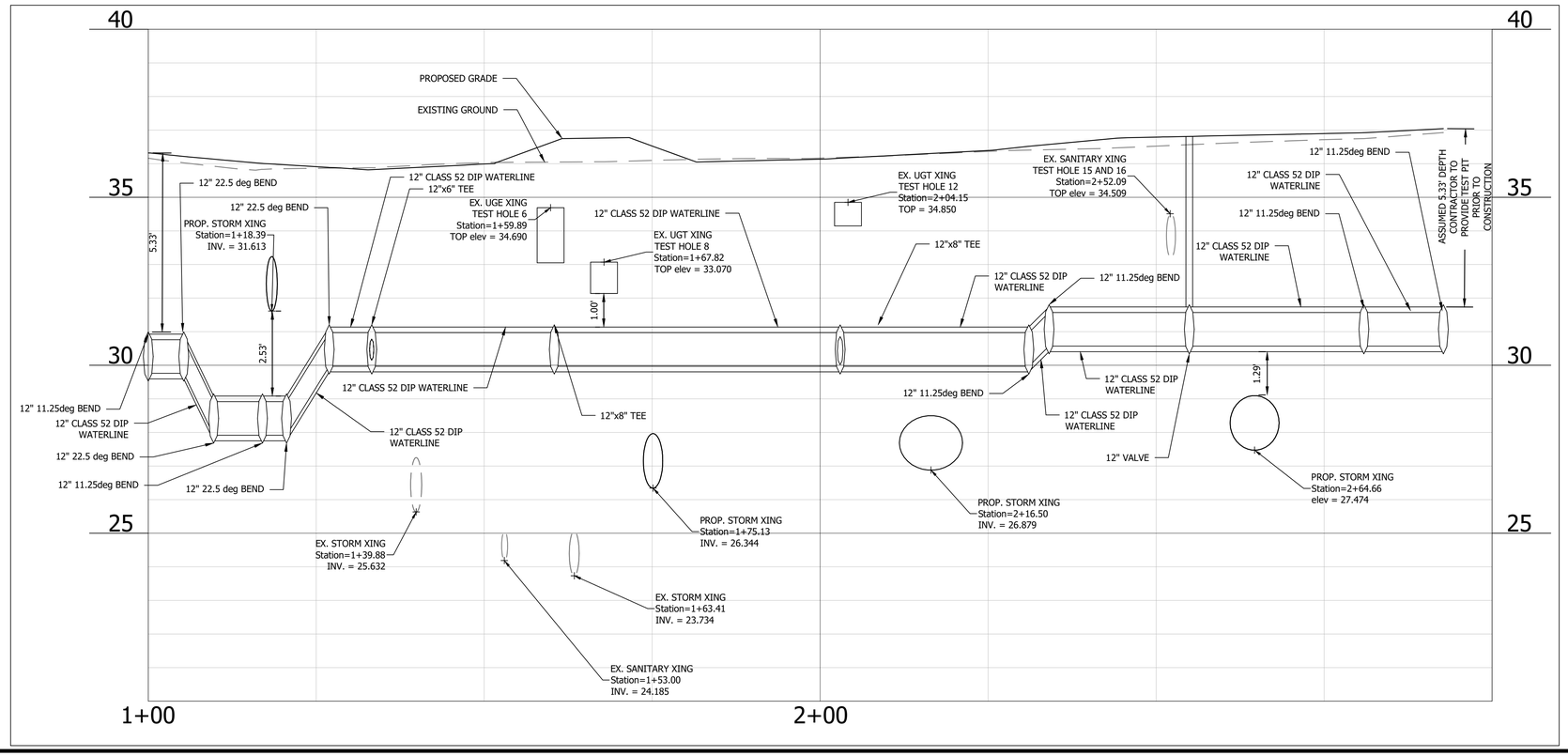
REVISED ON 01/03/2022





WATERMAIN CONSTRUCTION NOTES:

1. —//—//—//— INDICATES EXISTING WATER MAIN TO BE REMOVED FOR THE INSTALLATION OF PROPOSED WATERMAIN, OR ABANDONED IN PLACE PER ARLINGTON COUNTY SPECIFICATIONS AND STANDARDS.
2. ALL DEMOLISHED CURB AND GUTTER AND SIDEWALK FOR THE INSTALLATION OF PROPOSED WATERMAIN AND SERVICE CONNECTIONS SHALL BE RESTORED AS PER ARLINGTON COUNTY STANDARDS WITHIN THE COUNTY RIGHT OF WAY.
3. DEMOLISHED CURB AND GUTTER AND SIDEWALK SHALL BE REPLACED UP TO THE NEAREST JOINT.
4. ALL DISTURBED GRADED LAND AREA SHALL BE RESTORED WITH TOP SOIL AND SOD.
5. TH # IN PLAN VIEW DENOTES TEST HOLE CONDUCTED AT EXISTING UTILITY AND PROPOSED WATER MAIN CROSSINGS.
6. REFER PROFILE VIEW FOR ELEVATION INFORMATION.
7. TEST PITS SHALL BE MADE TO VERIFY EXACT LOCATION AND INVERTS OF EXISTING UTILITIES TO ALLOW FOR POSSIBLE CHANGES IN THE LINE AND GRADE. THESE TEST PITS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE COUNTY AND ARE INCIDENTAL TO THE WATER MAIN WORK.
8. ALL WATER MAIN JOINTS INCLUDING ALL TEES, BENDS, PLUGS, VALVES, FIRE HYDRANTS ETC. SHALL BE RESTRAINED PER ARLINGTON COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT JOINT RESTRAINT DETAILS DESIGNED FOR PRESSURE OF 250 PSI PRIOR TO INSTALLATION OF PIPE. ALL TEES, BENDS, PLUGS, VALVES, FIRE HYDRANTS ETC. IN CONJUNCTION WITH JOINT RESTRAINT SHALL ALSO BE RESTRAINED WITH CONCRETE THRUST BLOCKS AS SHOWN ON THE PLANS.
9. ALL EXISTING FEATURES AND UTILITIES SHOWN ON THIS PLAN ARE NOT BASED ON FIELD SURVEY INFORMATION. THE PLAN IS PREPARED BASED ON INFORMATION FROM ARLINGTON COUNTY GIS, AVAILABLE AS-BUILT DRAWINGS AND FROM UTILITY RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UTILITIES IN THE STREET SECTION WHERE THE WATERMAIN IS PROPOSED AND PHYSICALLY LOCATING ALL UTILITIES AT CROSSINGS PRIOR TO BEGINNING ANY EXCAVATION. WHEN CONFLICTS ARE IDENTIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER. ANY REQUIRED CHANGES TO THE PROPOSED WORK MUST BE APPROVED BY THE PROJECT OFFICER BEFORE THE CONTRACTOR MAY PROCEED.

0 5 10
VERT. SCALE
0 25 50
HORIZ. SCALE

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/12/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis, PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

WATERLINE PLAN AND PROFILE

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 12 2023

SCALE:
AS SHOWN

C051.1

FILENAME: CXXX WATERLINE PLAN AND PROFILE.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: NSHARP

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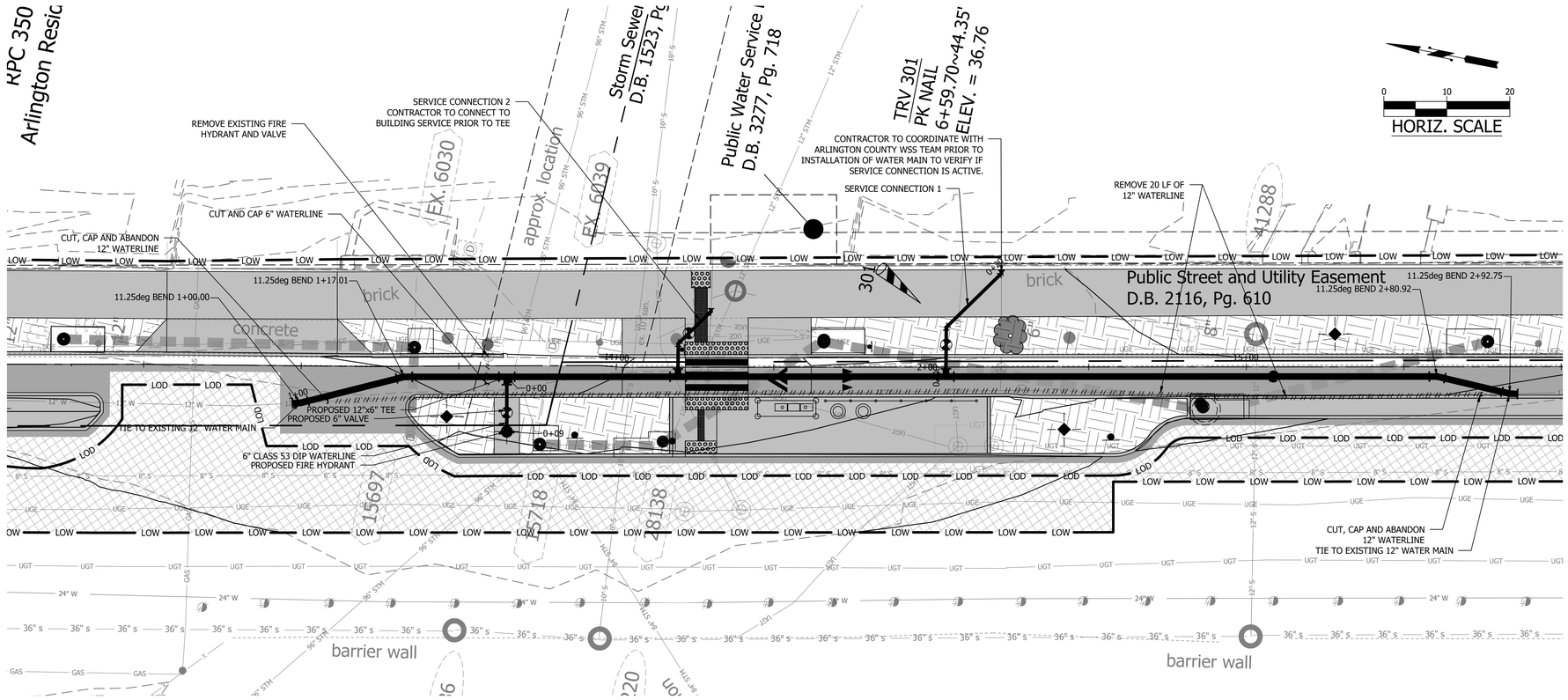
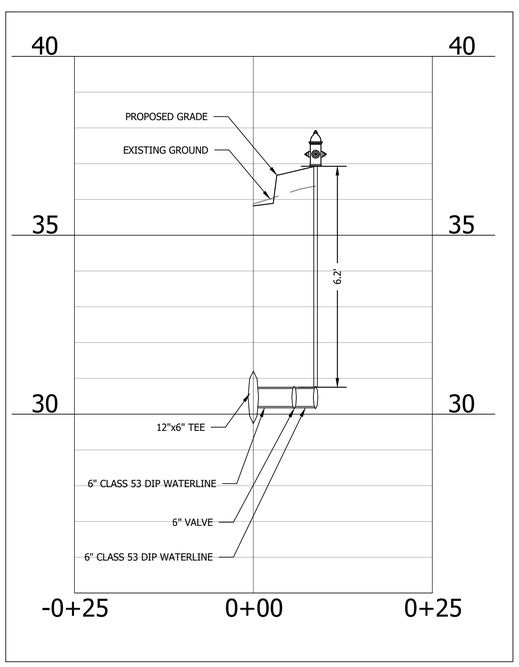
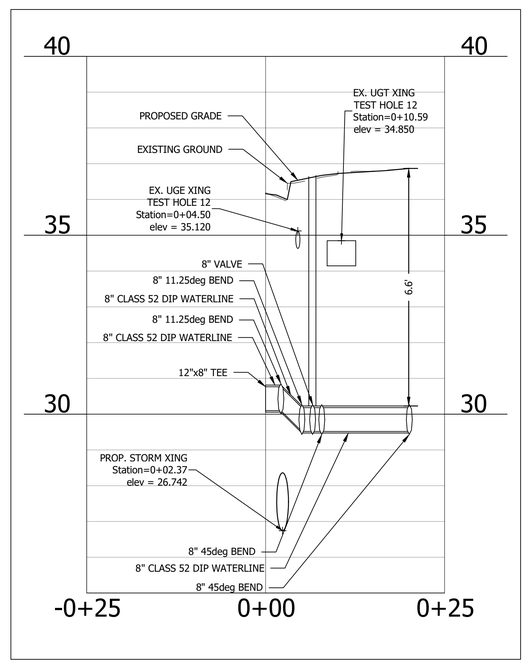


FIRE HYDRANT SERVICE



SERVICE CONNECTION 1



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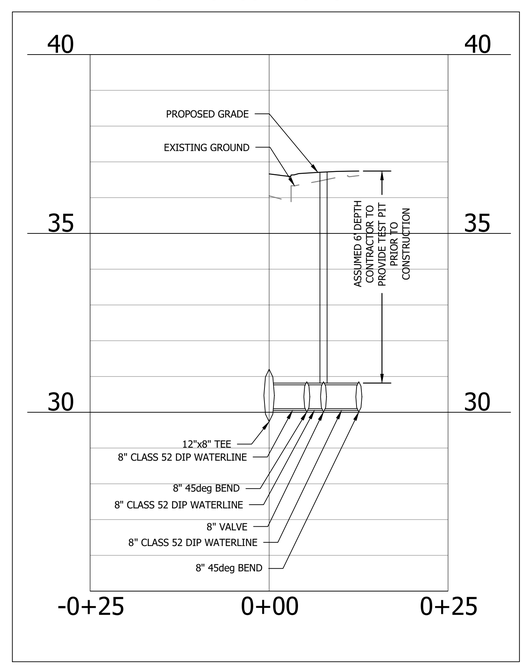

0 5 10
VERT. SCALE
0 25 50
HORIZ. SCALE

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SEAL
COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/12/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis, PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

WATERLINE PLAN AND PROFILE

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 12 2023

SCALE:
AS SHOWN

C051.2

FILENAME: CXXX WATERLINE PLAN AND PROFILE.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: NSHARP

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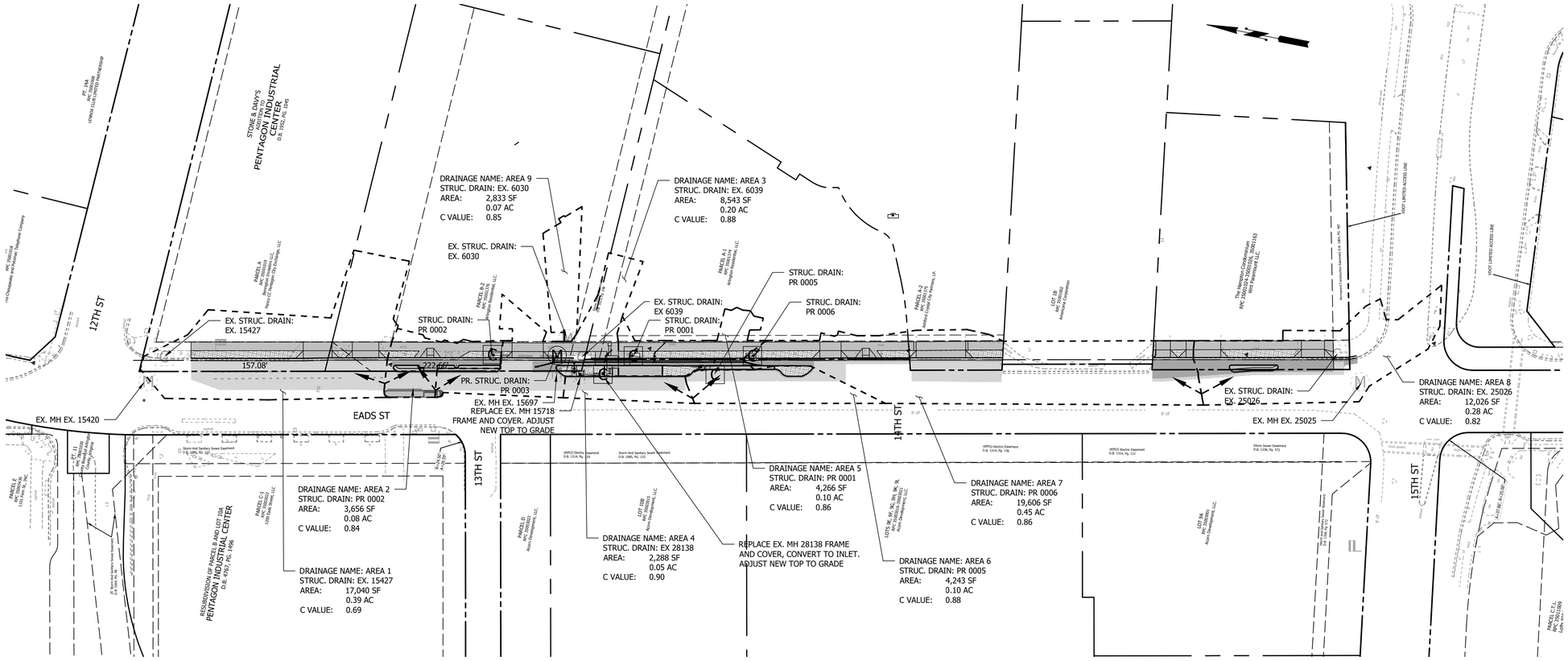

DRAINAGE DIVIDES

DRAINAGE AREA NAME	DOWN STREAM STRUCTURE	AREA (SF)	AREA (AC)	C VALUE
1	EX. 15420	17,040	0.39	0.69
2	PR. 0002	3,656	0.08	0.84
3	EX. 6039	8,543	0.20	0.88
4	EX. 28138	2,288	0.05	.90
5	PR. 0001	4,266	0.10	0.86
6	PR. 0005	4,243	0.10	0.88
7	PR. 0006	19,606	0.4500	0.86
8	EX. 25026	16,395	0.38	0.82

DESIGN NOTES:

DRAINAGE DIVIDES AND AREAS WERE DETERMINED USING A COMBINATION OF EXISTING SURVEY AND GIS INFORMATION.

NOT FOR CONSTRUCTION
THIS SHEET FOR CALCULATION PURPOSES ONLY

ARLINGTON VIRGINIA
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SEAL
COMMONWEALTH OF VIRGINIA
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9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
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	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

STORM SEWER DRAINAGE DIVIDES

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:
0 50 100
GRAPHIC SCALE

C071.1

FILENAME: CC23-250-DRAINAGE_DIVIDES.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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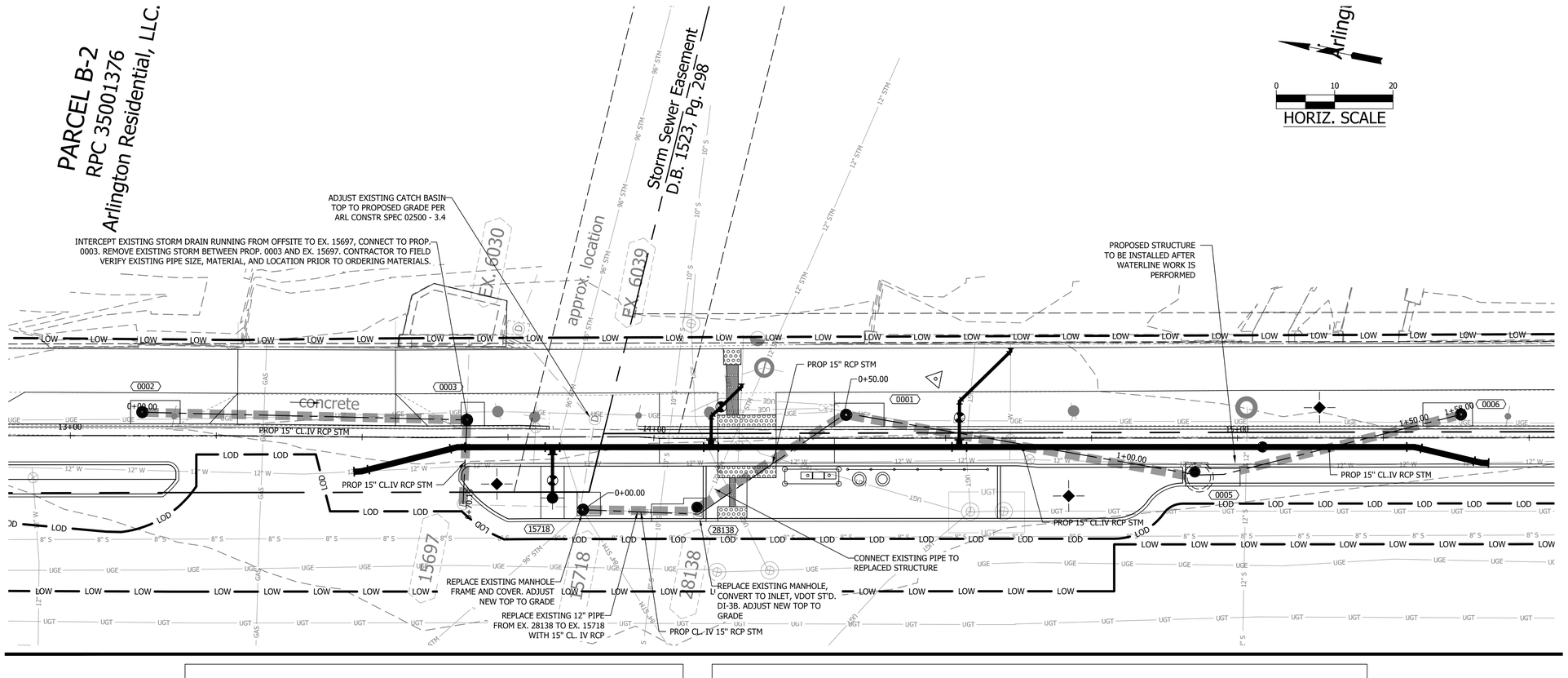

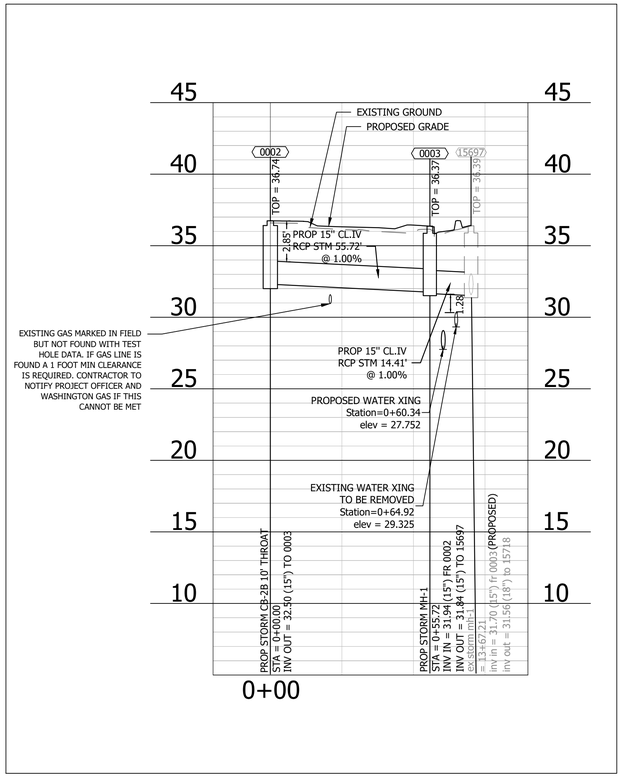

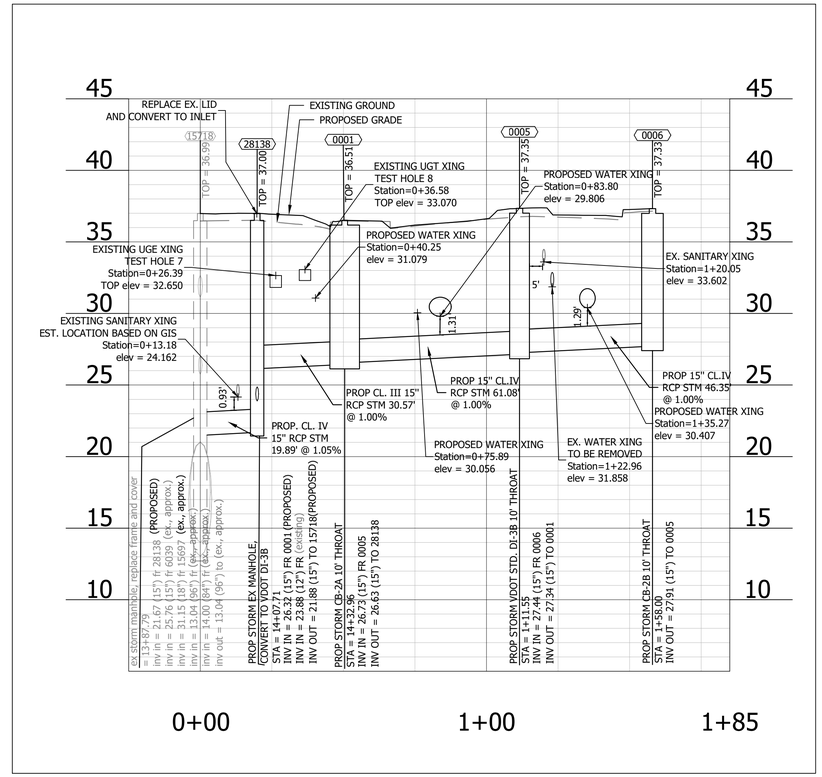

VERT. SCALE 0 5 10

HORIZ. SCALE 0 25 50

CONTRACTOR TO FIELD VERIFY STRUCTURE INVERTS OF 15718 AND 28138 PRIOR TO ORDERING STRUCTURES. CONTACT PROJECT OFFICER IF INVERT ELEVATIONS ARE DIFFERENT FROM PLANS

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SEAL

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9/7/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
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WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

STORM SEWER PLAN AND PROFILE

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 7 2023

SCALE:

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FILENAME: CC23-251-STORM_SEWER_PLAN.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: NSHARP

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REVISED ON 01/03/2022

Storm Drain Design Computations

From Point	To Point	Drainage Area Acres	Runoff Coefficient C	CA Incr.	CA Offsite	CA Accum.	Inlet Time min	Time of Conc. min	Rainfall in/hr	Runoff Q cfs	Invert Elevations Upper End	Invert Elevations Lower End	Length ft	Slope %	Diameter in	Capacity cfs	Velocity fps	Flow Time min	Remarks
EX 15427	EX 15420	0.39	0.69	0.27	0.00	0.27	5.00	5.00	6.79	1.83	32.80	32.68	24.07	0.50%	15	4.56	3.51	0.11	Existing Pipe
EX 6039	EX 15718	0.20	0.88	0.17	0.00	0.17	5.00	5.00	6.79	1.17	25.84	22.00	31.00	12.39%	15	22.74	9.74	0.05	Existing Pipe
EX 25026	EX 25025	0.28	0.82	0.23	0.42	0.65	5.00	5.00	6.79	4.41	32.61	32.19	22.91	1.83%	15	8.75	7.14	0.05	Existing Pipe
PR 0006	PR 0005	0.45	0.86	0.39	0.00	0.39	5.00	5.00	6.79	2.63	27.91	27.44	46.35	1.01%	15	6.50	5.02	0.15	
PR 0005	PR 0001	0.10	0.88	0.09	0.00	0.47	5.00	5.15	6.74	3.19	27.34	26.73	61.08	1.00%	15	6.46	5.24	0.19	
PR 0001	EX 28138	0.10	0.86	0.08	0.00	0.56	5.00	5.35	6.67	3.72	26.63	26.32	30.57	1.01%	15	6.51	5.48	0.09	
EX 28138	EX 15718	0.00	0.00	0.00	0.495	1.05	5.00	5.44	6.64	6.99	21.88	21.67	19.89	1.06%	15	6.64	6.12	0.05	
PR 0002	PR 0003	0.08	0.84	0.07	0.00	0.07	5.00	5.00	6.79	0.48	32.50	31.94	55.72	1.01%	15	6.48	3.09	0.30	
PR 0003	EX 15697	0.00	0.00	0.00	0.003	0.07	5.00	5.30	6.69	0.49	31.84	31.70	14.41	0.97%	15	6.37	3.08	0.08	
EX 15697	EX 15718	0.00	0.00	0.00	0.00	0.07	5.00	5.38	6.66	0.49	31.56	31.52	20.57	0.19%	18	4.63	1.71	0.20	

END OF TABLE - DO NOT DELETE THIS LINE

Storm Inlet Computations

Inlet Number	Inlet Type	Inlet Length (ft)	Inlet Station	Flow Drainage Area (acres)	Flow C	Flow CA	Flow i (in/hr)	Flow Q Incr (ft^3/s)	Flow Q Carryover (ft^3/s)	Flow Q_T (ft^3/s)	Curb Inlet S Gutter Slope (ft/ft)	Curb Inlet Sx Crossslope (ft/ft)	Curb Inlet T Spread (ft)	Curb Inlet W (ft)	Curb Inlet W/T	Curb Inlet Sw (ft/ft)	Curb Inlet Sw/Sx	Curb Inlet E_0	Curb Inlet a (in)	Curb Inlet S'w	Curb Inlet Se (ft/ft)	Curb Inlet L_T Computed Length (ft)	Curb Inlet L/L_T	Operation E (%)	Operation Q Intercepted (ft^3/s)	Operation Q_b Carryover (ft^3/s)	Sag Inlets Only d (ft)	Sag Inlets Only h (ft)	Sag Inlets Only d/h	Sag Inlets Only T Spread @ Sag (ft)
EX 15420	DI-3C	8		0.00	0.00	0.000	4.00	0.00	0.00	0.000		0.04510		1.50		0.0833											0.23	0.46	0.00	3.81
EX 6039	DI-3C	15		0.20	0.88	0.173	4.00	0.69	0.00	0.690		0.02500		1.50		0.0833											0.23	0.46	0.00	5.68
PR 0001	CB-2A	10		0.10	0.86	0.084	4.00	0.34	0.00	0.337		0.02300		1.50		0.0833											0.21	0.42	0.00	5.13
EX 25026	DI-3C	6.5		0.28	0.82	0.226	4.00	0.91	0.00	0.906		0.02610		1.50		0.0833											0.23	0.46	0.00	5.61
PR 0002	CB-2B	10		0.08	0.84	0.071	4.00	0.28	0.00	0.282	0.00	0.02500	3.58	1.50	0.42	0.0833	3.33	0.884	4.05	0.23	0.22	1.97	5.07	100%	0.28	0.000				
EX 28138	DI-3C	8		0.00	0.00	0.000	4.00	0.00	0.00	0.000		0.03230		1.50		0.0833											0.23	0.46	0.00	4.72
PR 0005	CB-2A	10		0.10	0.88	0.086	4.00	0.34	0.00	0.343		0.03880		1.50		0.0388											0.21	0.42	0.00	5.38
PR 0006	CB-2B	10		0.45	0.86	0.387	4.00	1.55	0.00	1.548	0.00	0.02560	7.76	1.50	0.19	0.0833	3.26	0.529	4.04	0.22	0.14	5.62	1.78	100%	1.55	0.000				

END OF TABLE - DO NOT DELETE THIS LINE

*

Hydraulic Grade Line Computations

Inlet Structure	Upstream Structure	Outlet Water Surface Elev. (ft)	D_o (in)	Q_o (cfs)	L_o (ft)	Sf_o (%)	H_f (ft)	V_o (ft/s)	H_o (ft)	Q_j	V_i (ft/s)	Q_jV_i	$V_i^2/2g$ (ft)	H_j (ft)	Angle (°)	H_A (ft)	H_k (ft)	1.3 H_k (ft)	0.5 H_k (ft)	Final H (ft)	Inlet Water Surface Elev. (ft)	Rim Elev. (ft)
								Junction Loss														
EX 15420					Outlet Pipe Dia. =		15.00	Outlet Pipe Inv. =		32.68	0.8xDia + Pipe Inv. =		33.68	Outlet WSEL =					Starting WSEL =		33.68	
EX 15427		33.68	15	1.83	24.07	0.0805%	0.02	3.51	0.06								0.06	0.07		0.09	33.77	36.48
EX 25025					Outlet Pipe Dia. =		15.00	Outlet Pipe Inv. =		32.19	0.8xDia + Pipe Inv. =		33.19	Outlet WSEL =					Starting WSEL =		33.19	
EX 25026		33.19	15	4.41	22.91	0.4668%	0.11	7.14	0.24								0.24	0.31		0.42	33.61	39.93
EX 15718					Outlet Pipe Dia. =		15.00	Outlet Pipe Inv. =		22.00	0.8xDia + Pipe Inv. =		23.00	Outlet WSEL =					Starting WSEL =		23.00	
EX 6039		23.00	15	1.17	31.00	0.0329%	0.01	9.74	0.44								0.44	0.57		0.58	25.84	36.27
EX 28138		23.00	15	6.99	19.89	1.1700%	0.23	6.12	0.15					0.16		0.33	0.63	0.82		1.06	24.06	37.00
	PR 0001									3.72	5.48	20.36	0.47	0.16	90	0.33						
	-									0.00	#N/A	0.00	0.00	0.00	90	0.00						
PR 0001		27.32	15	3.72	30.57	0.3310%	0.10	5.48	0.14								0.14	0.00		0.24	27.56	36.51
EX 15697		32.72	18	0.49	20.57	0.0022%	0.00	1.71	0.01					0.05		0.10	0.17	0.00		0.17	32.89	36.39
	PR 0003									0.49	3.08	1.52	0.15	0.05	90	0.10						
PR 0003		32.89	15	0.49	14.41	0.0058%	0.00	3.08	0.04					0.05		0.10	0.19	0.00		0.19	33.08	36.37
	PR 0002									0.48	3.09	1.48	0.15	0.05	90	0.10						
PR 0002		33.08	15	0.48	55.72	0.0055%	0.00	3.09	0.04								0.04	0.06		0.06	33.14	36.74
										0.00	#N/A	0.00	0.00	0.00	90	0.00						
PR 0005		27.73	15	3.19	61.08	0.2431%	0.15	5.24	0.11					0.14		0.27	0.52	0.00		0.67	28.40	37.37
	PR 0006									2.63	5.02	13.19	0.39	0.14	90	0.27						
PR 0006		28.44	15	2.63	46.35	0.1655%	0.08	5.02	0.12								0.12	0.15		0.23	28.67	37.33

END OF TABLE - DO NOT DELETE THIS LINE

* - ADDITIONAL INLET TO BE PROVIDED UPSTREAM WITH A PRIVATE DEVELOPMENT PLAN ALONG THE ROADWAY (LOT 1B, RPC 35001002). COORDINATION WITH THE PRIVATE DEVELOPER IS ONGOING AS OF THIS PLAN SUBMISSION

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COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

STORM SEWER COMPUTATIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

N/A

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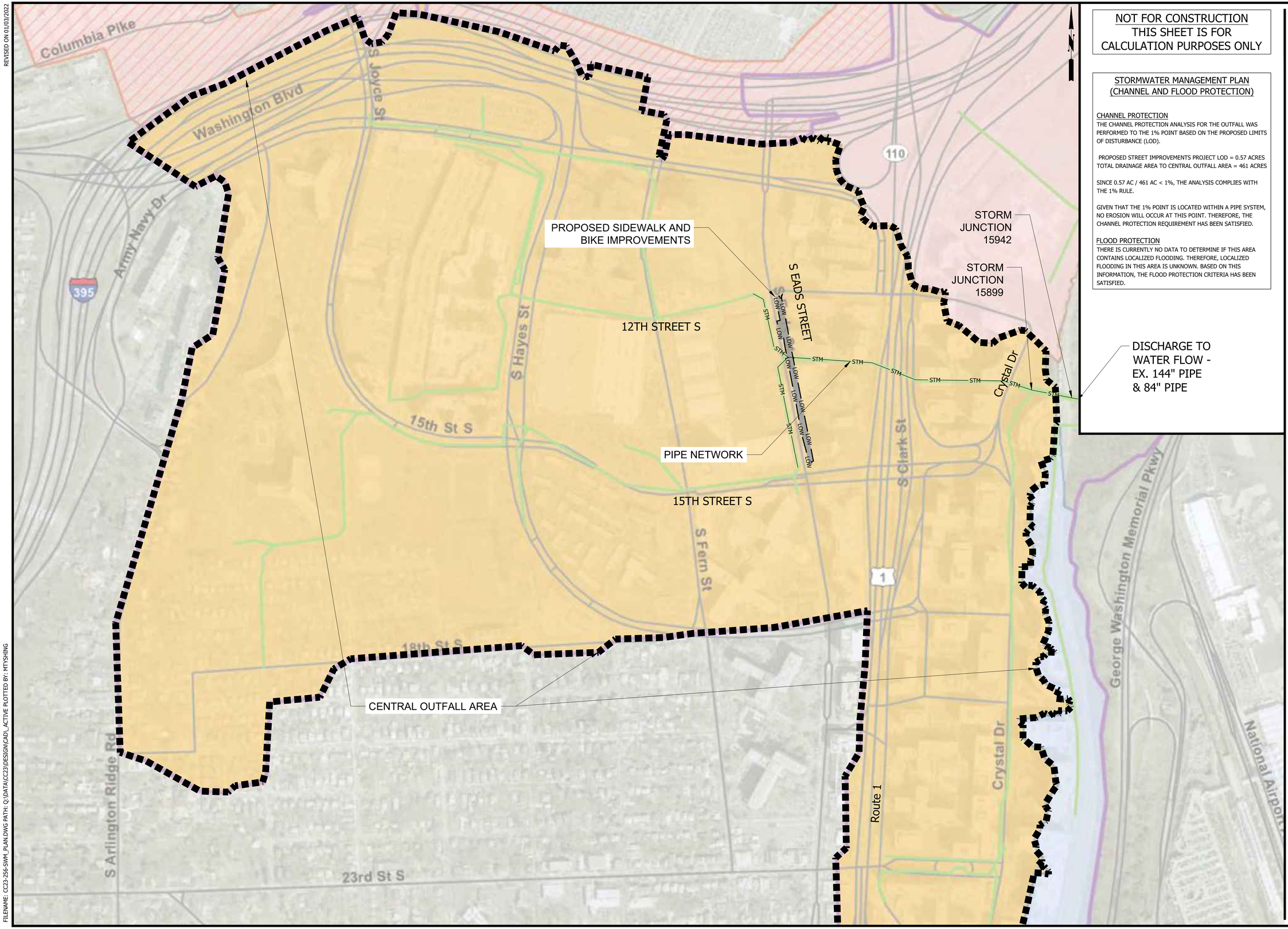

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THIS SHEET IS FOR CALCULATION PURPOSES ONLY

STORMWATER MANAGEMENT PLAN (CHANNEL AND FLOOD PROTECTION)

CHANNEL PROTECTION

THE CHANNEL PROTECTION ANALYSIS FOR THE OUTFALL WAS PERFORMED TO THE 1% POINT BASED ON THE PROPOSED LIMITS OF DISTURBANCE (LOD).

PROPOSED STREET IMPROVEMENTS PROJECT LOD = 0.57 ACRES
TOTAL DRAINAGE AREA TO CENTRAL OUTFALL AREA = 461 ACRES

SINCE 0.57 AC / 461 AC < 1%, THE ANALYSIS COMPLIES WITH THE 1% RULE.

GIVEN THAT THE 1% POINT IS LOCATED WITHIN A PIPE SYSTEM, NO EROSION WILL OCCUR AT THIS POINT. THEREFORE, THE CHANNEL PROTECTION REQUIREMENT HAS BEEN SATISFIED.

FLOOD PROTECTION

THERE IS CURRENTLY NO DATA TO DETERMINE IF THIS AREA CONTAINS LOCALIZED FLOODING. THEREFORE, LOCALIZED FLOODING IN THIS AREA IS UNKNOWN. BASED ON THIS INFORMATION, THE FLOOD PROTECTION CRITERIA HAS BEEN SATISFIED.

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S EADS STREET PHASE II
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SWM DRAINAGE AREA MAP

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

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GRAPHIC SCALE

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Site Information

final results

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area *(acres)* → 0.5739

Maximum reduction required:	*20%*
The site's net increase in impervious cover (acres) is:	*0.0000*
Post-Development TP Load Reduction for Site (lb/yr):	*0.2075*

Check:
BMP Design Specifications List: 2013 Draft Stds & Specs
Linear project? Yes
Land cover areas entered correctly? ✓
Total disturbed area entered? ✓

Pre-ReDevelopment Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed forest/open space				0.0000	0.0000
Managed Turf (acres) -- disturbed, graded for yards or other turf to be				0.0795	0.0795
Impervious Cover (acres)				0.4944	0.4944
					0.5739

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest/open space or reforested				0.0000	0.0000
Managed Turf (acres) -- disturbed, graded for yards or other turf to be				0.0894	0.0894
Impervious Cover (acres)				0.4845	0.4845
Area Check	OK.	OK.	OK.	OK.	0.5739

Constants

Annual Rainfall (inches)	43
Target Rainfall Event (inches)	1.00
Total Phosphorus (TP) EMC (mg/L)	0.26
Total Nitrogen (TN) EMC (mg/L)	1.86
Target TP Load (lb/acre/yr)	0.41
Pj (unitless correction factor)	0.90

Runoff Coefficients (Rv)

	A Soils	B Soils	C Soils	D Soils
Forest/Open Space	0.02	0.03	0.04	0.05
Managed Turf	0.15	0.20	0.22	0.25
Impervious Cover	0.95	0.95	0.95	0.95

LAND COVER SUMMARY -- PRE-REDEVELOPMENT

Land Cover Summary-Pre

Pre-ReDevelopment	Listed	Adjusted[1]
Forest/Open Space Cover (acres)	0.0000	0.0000
Weighted Rv(forest)	0.0000	0.0000
% Forest	0%	0%
Managed Turf Cover (acres)	0.0795	0.0795
Weighted Rv(turf)	0.2500	0.2500
% Managed Turf	14%	14%
Impervious Cover (acres)	0.4944	0.4944
Rv(impervious)	0.9500	0.9500
% Impervious	86%	86%
Total Site Area (acres)	**0.5739**	**0.5739**
Site Rv	**0.8530**	**0.8530**

Treatment Volume and Nutrient Load

Pre-ReDevelopment Treatment Volume (acre-ft)	0.0408	0.0408
Pre-ReDevelopment Treatment Volume (cubic feet)	1,777.2375	1,777.2375
Pre-ReDevelopment TP Load (lb/yr)	**1.1166**	**1.1166**
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	1.9500	1.9500
Baseline TP Load (lb/yr) (**0.41 lbs/acre/yr** applied to pre-redevelopment area excluding pervious land proposed for new impervious cover)		*0.2353*

[1] *Adjusted Land Cover Summary:*
Pre ReDevelopment land cover minus pervious land cover (forest/open space or managed turf) acreage proposed for new impervious cover.

Adjusted total acreage is consistent with Post-ReDevelopment acreage (minus acreage of new impervious cover).

Column I shows load reduction requriement for new impervious cover (based on new development load limit, 0.41 lbs/acre/year).

LAND COVER SUMMARY -- POST DEVELOPMENT

Land Cover Summary-Post (Final)

Post ReDev. & New Impervious	
Forest/Open Space Cover (acres)	0.0000
Weighted Rv(forest)	0.0000
% Forest	0%
Managed Turf Cover (acres)	0.0894
Weighted Rv (turf)	0.2500
% Managed Turf	16%
Impervious Cover (acres)	0.4845
Rv(impervious)	0.9500
% Impervious	84%
Final Site Area (acres)	**0.5739**
Final Post Dev Site Rv	**0.8409**

Land Cover Summary-Post

Post-ReDevelopment	
Forest/Open Space Cover (acres)	0.0000
Weighted Rv(forest)	0.0000
% Forest	0%
Managed Turf Cover (acres)	0.0894
Weighted Rv (turf)	0.2500
% Managed Turf	16%
ReDev. Impervious Cover (acres)	0.4845
Rv(impervious)	0.9500
% Impervious	84%
Total ReDev. Site Area (acres)	**0.5739**
ReDev Site Rv	**0.8409**

Land Cover Summary-Post

Post-Development New Impervious	
New Impervious Cover (acres)	0.0000
Rv(impervious)	--

Treatment Volume and Nutrient Load

Final Post-Development Treatment Volume (acre-ft)	0.0402
Final Post-Development Treatment Volume (cubic feet)	1,752.0375
Final Post-Development TP Load (lb/yr)	**1.1008**
Final Post-Development TP Load per acre (lb/acre/yr)	1.9200

Post-ReDevelopment Treatment Volume (acre-ft)	0.0402
Post-ReDevelopment Treatment Volume (cubic feet)	1,752.0375
Post-ReDevelopment Load (TP) (lb/yr)*	**1.1008**
Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.9200
Max. Reduction Required (Below Pre-ReDevelopment Load)	**20%**
TP Load Reduction Required for Redeveloped Area (lb/yr)	**0.2075**

Post-Development Treatment Volume (acre-ft)	--
Post-Development Treatment Volume (cubic feet)	--
Post-Development TP Load (lb/yr)	--
TP Load Reduction Required for New Impervious Area (lb/yr)	**0**

RUNOFF REDUCTION NOTES:

1. THE RUNOFF REDUCTION SPREADSHEET ON THIS PLAN IS FOR DATA TRACKING PURPOSES TO DOCUMENT THE AREA OF LAND DISTURBANCE AND TO CHARACTERIZE PRE- AND POST- DEVELOPMENT LAND USE CONDITIONS.
2. POLLUTANT LOAD CHANGES WILL BE COMPUTED AS DESCRIBED IN SECTION 3.A OF THE ACTION PLAN.

POLLUTION PREVENTION PLAN NOTES:

ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD, OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTION TO SURFACE WATERS:

WATER LINE FLUSHING; LANDSCAPING IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; FOUNDATION DRAINS; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIRE FIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.

APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (E.G., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MS4 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK.

PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATERS, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr)	**0.2075**

Linear Project TP Load Reduction Required (lb/yr): 0.2075

Nitrogen Loads (Informational Purposes Only)

Pre-ReDevelopment TN Load (lb/yr)	7.9882
Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (lb/yr)	7.8750

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Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

SWM CALCULATIONS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:
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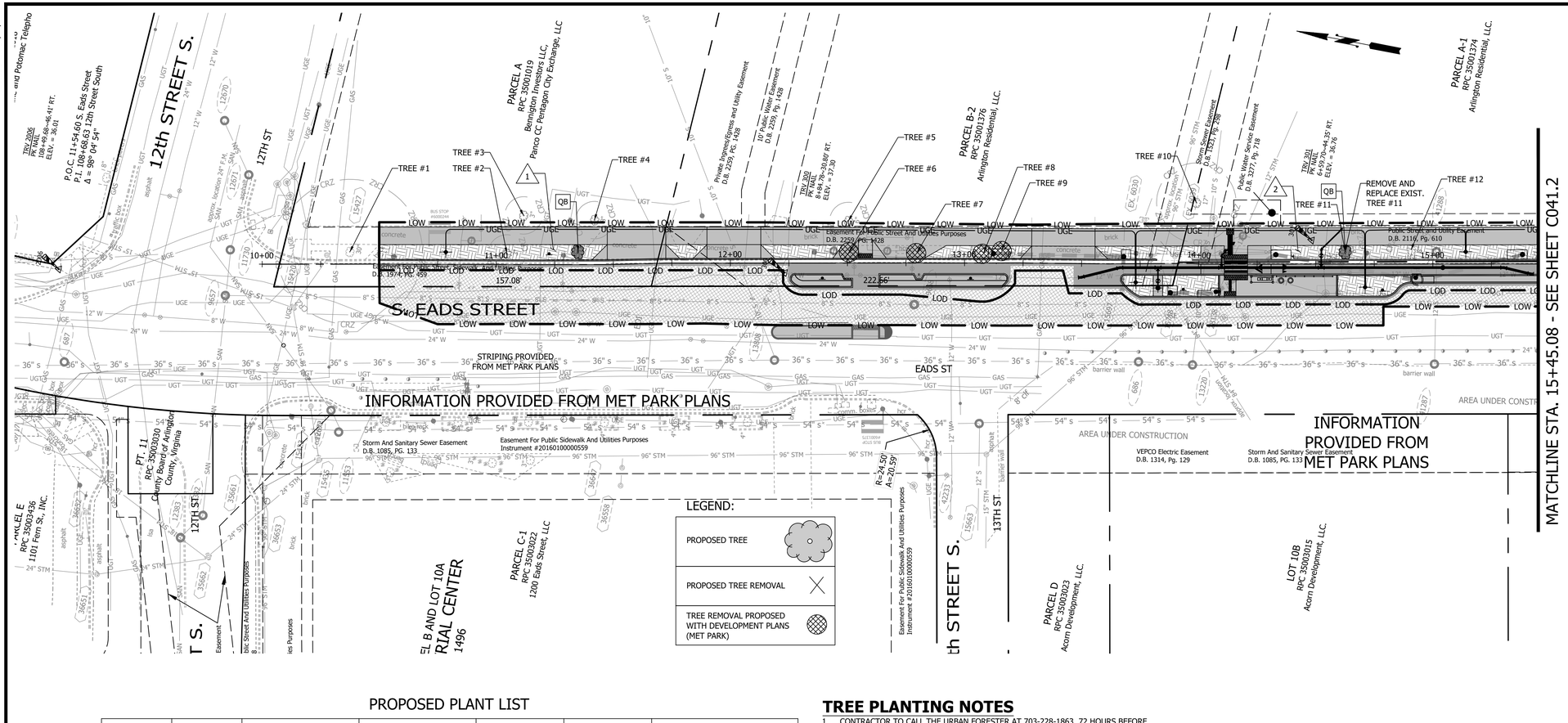

LEGEND:

- PROPOSED TREE
- PROPOSED TREE REMOVAL
- TREE REMOVAL PROPOSED WITH DEVELOPMENT PLANS (MET PARK)

PROPOSED PLANT LIST

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
QB	2	*Quercus Bicolor*	SWAMP WHITE OAK	2-2 ½" cal.	B&B	SINGLE STRAIGHT LEADER

SOIL VOLUME CALCULATION:

1

LOCATION: TREE PLANTING PIT
NUMBER OF TREES: ONE (1)
AREA OF STRIP: 608 SF
DEPTH: 3 FT
SOIL VOLUME PER TREE: (608 SF x 3 FT) / 2 TREES = 912 CF/TREE

TARGET SOIL VOLUME PER TREE: 900 CF/TREE

SOIL VOLUME CALCULATION:

2

LOCATION: TREE PLANTING PIT
NUMBER OF TREES: ONE (1) PROPOSED AND THREE (3) EXISTING
AREA OF STRIP: 955 SF
DEPTH: 3 FT
SOIL VOLUME PER TREE: (955 SF x 3 FT) / 4 TREES = 726 CF/TREE

TREE PLANTING NOTES

1. CONTRACTOR TO CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE PLANTING, TO SCHEDULE INSPECTION OF THE TREES TO BE PLANTED. WARRANTY FOR 1 YEAR AFTER PLANTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE URBAN FORESTER AND DPR IS RESPONSIBLE FOR INSPECTION.
   CONTRACTOR TO PREPARE TREE PLANTING STRIPS FOR THE REPLACEMENT TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 3293000.3A, 329300.3B.
   - 1.1. ALL PLANTS TO HAVE TREE TAGS FOR INSPECTION PRIOR TO INSTALLATION
   - 1.2. ALL PLANTS TO BE INSTALLED PER CONTRACT SPECIFICATIONS
   - 1.3. THE CONTRACTOR IS RESPONSIBLE FOR CALLING MS. UTILITY PRIOR TO THE SCHEDULED DATE FOR PLANT INSTALLATION.
2. CONTRACTOR TO PREPARE STREET TREE PLANTING PITS ACCORDING TO THE ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.3A AND 329300.3B
3. CONTRACTOR TO CALL THE URBAN FORESTER AT 703-228-1863, 72 HOURS BEFORE DISTURBING EXISTING TREE PLANTING PITS, TO ENSURE THAT WORK IN PITS WILL LIMIT IMPACTS TO EXISTING TREES AND ROOTS.
4. CONTRACTOR TO PLANT THE TREES ACCORDING TO ARLINGTON COUNTY DPR DESIGN STANDARD DETAIL 329300.1 (ON FLAT LAND) OR 329300.2 (ON SLOPES)
5. TREE INVENTORY LOCATED ON SHEET C092.1
6. NO DRAINAGE IS REQUIRED

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S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

LANDSCAPE PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:
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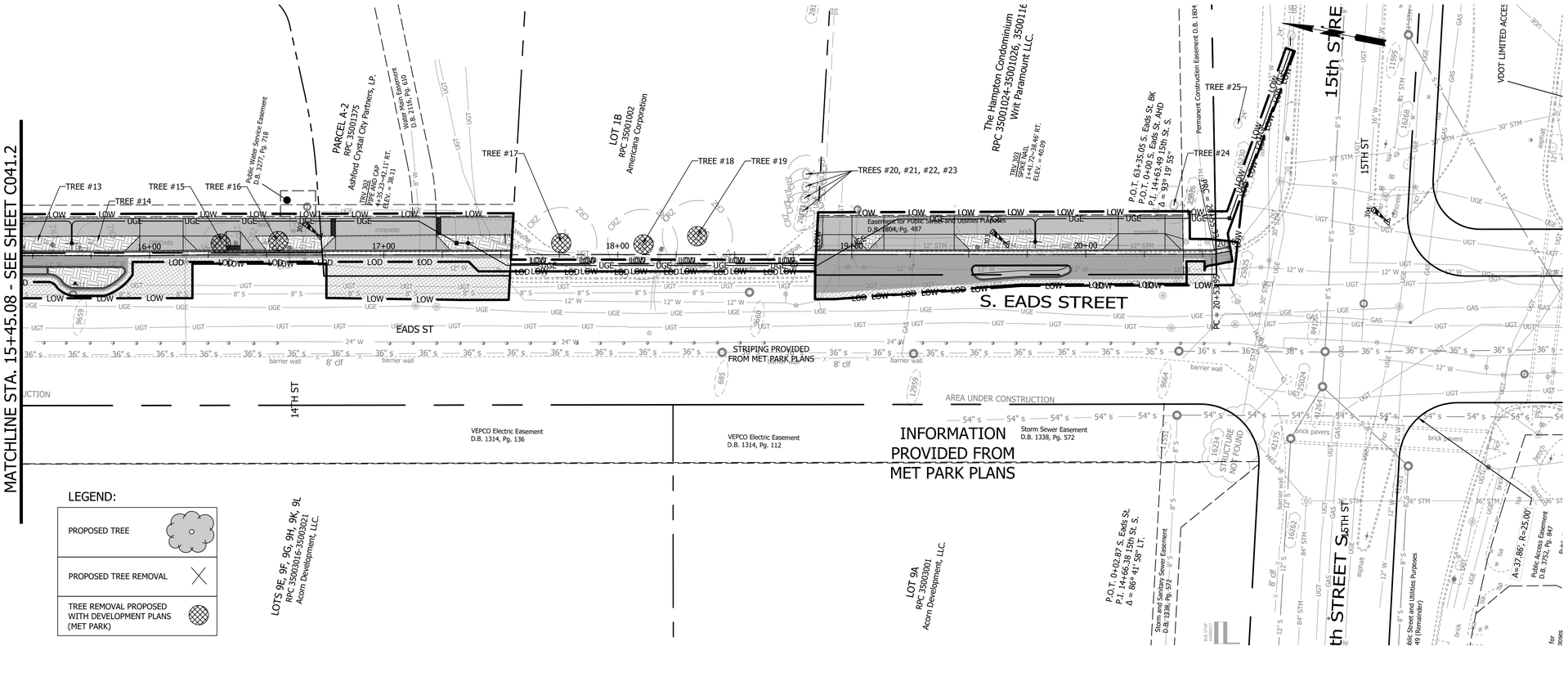

PROPOSED PLANT LIST

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	REMARKS
QB	1	*Quercus Bicolor*	SWAMP WHITE OAK	2-2 ½" cal.	B&B	SINGLE STRAIGHT LEADER

TREE PLANTING NOTES

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DESIGNED: NS
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TREE INVENTORY CC23

Tree Survey Information Completed by : Kathy von Bredow #MA4729A January 19,2022

*added by Tommy Cook

Tree #	Botanical Name	Common Name	Size (DBH)	Critical Root Zone (CRZ)	Estimated Effective Critical Root Zone* (ECRZ) SF	ECRZ in LOW* Area %	Species Rating	Condition %	Action	Total Score	Replacement	Notes
1	*Quercus palustris*	Pin oak	31"	31'	1034'	36%	80%	81%	TO REMAIN	20	N/A	
2	*Quercus rubra*	Northern red oak	3"	8'	95'	100%	85%	81%	TO REMAIN	2	N/A	
3	*Prunus laurocerasus*	Cherry Laurel	3"	8'	147'	0%	0%	0%	TO REMAIN	0	N/A	Not a tree, this is a shrub - median of entrance
4	*Quercus palustris*	Pin oak	8"	8'	111'	0%	80%	75%	TO REMAIN	5	N/A	Not part of the streetscape, along building
5	*Platanus hybrida x acerifolia*	London plane tree	6"	8'	114'	0%	80%	81%	TO REMAIN	4	N/A	
6	*Platanus hybrida x acerifolia*	London plane tree	6"	8'	85'	100%	80%	81%	TO BE REMOVED BY OTHERS	4	N/A	
7	*Platanus hybrida x acerifolia*	London plane tree	9"	9'	100'	0%	80%	81%	TO BE REMOVED BY OTHERS	6	N/A	
8	*Platanus hybrida x acerifolia*	London plane tree	8"	8'	100'	0%	80%	81%	TO BE REMOVED BY OTHERS	5	N/A	
9		Removed?			100'	0%		0%	TO BE REMOVED BY OTHERS		N/A	
10	*Quercus phellos*	Willow oak	17"	17'	757'	2%	80%	81%	TO REMAIN	11	N/A	
11	*Platanus hybrida x acerifolia*	London plane tree	8"	8'	85'	100%	80%	66%	TO REMAIN	4	N/A	Trunk has carving, damage
12	*Platanus hybrida x acerifolia*	London plane tree	9"	9'	102'	100%	80%	75%	TO REMAIN	5	N/A	
13	*Platanus hybrida x acerifolia*	London plane tree	6"	8'	85'	100%	80%	63%	TO REMAIN	3	N/A	Trunk damage
14	*Platanus hybrida x acerifolia*	London plane tree	6"	8'	88'	100%	80%	63%	TO REMAIN	3	N/A	Trunk damage
15	*Platanus hybrida x acerifolia*	London plane tree	8"	8'	95'	100%	80%	78%	TO BE REMOVED BY OTHERS	5	N/A	
16	*Platanus hybrida x acerifolia*	London plane tree	11"	11'	130'	100%	80%	78%	TO BE REMOVED BY OTHERS	7	N/A	
17	*Platanus hybrida x acerifolia*	London plane tree	15"	15'	535'	100%	80%	78%	TO BE REMOVED BY OTHERS	9	N/A	
18	*Platanus hybrida x acerifolia*	London plane tree	15"	15'	552'	100%	80%	22%	TO BE REMOVED BY OTHERS	3	N/A	Looks to be dead, evaluate in spring. Utility conflicts.
19	*Platanus hybrida x acerifolia*	London plane tree	15"	15'	563'	100%	80%	13%	TO BE REMOVED BY OTHERS	2	N/A	Looks to be dead, evaluate in spring. Utility conflicts.
20	*Cupressua x leylandii*	Leyland Cypress	3"	8'	200'	0%	30%	78%	TO REMAIN	1	N/A	This is a row of trees (4) - Leyland cypress, 3" dbh
21	*Cupressua x leylandii*	Leyland Cypress	3"	8'	200'	0%	30%	78%	TO REMAIN	1	N/A	This is a row of trees (4) - Leyland cypress, 3" dbh
22	*Cupressua x leylandii*	Leyland Cypress	3"	8'	200'	0%	30%	78%	TO REMAIN	1	N/A	This is a row of trees (4) - Leyland cypress, 3" dbh
23	*Cupressua x leylandii*	Leyland Cypress	3"	8'	200'	44%	30%	78%	TO REMAIN	1	N/A	This is a row of trees (4) - Leyland cypress, 3" dbh
24	*Acer japonica*	Japanese Maple	3"	8'	105'	0%	40%	84%	TO REMAIN	1	N/A	
25	*Koelreuteria paniculata*	Goldenraintree	15"	15'	707'	0%	70%	81%	TO REMAIN	9	N/A	Not part of streetscape, set near building

ARLINGTON VIRGINIA
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FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
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ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

LANDSCAPE NOTES AND DETAILS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

AS SHOWN

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FILENAME: CC23-260-LANDSCAPE_PLAN.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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REVISED ON 01/03/2022

NOTES

1. AT PLANTING PRUNE ONLY CROSSING LIMBS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS PER ANSI STANDARD A300. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.

2. CONTRACTOR SHALL MAXIMIZE EXCAVATED AREA FOR TREE PIT WITHOUT ADVERSELY IMPACTING ADJACENT SITE FEATURES.

3. UNLESS OTHERWISE DIRECTED BY ARLINGTON COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE URBAN FORESTER; PEAT MOSS SHALL NOT BE USED).

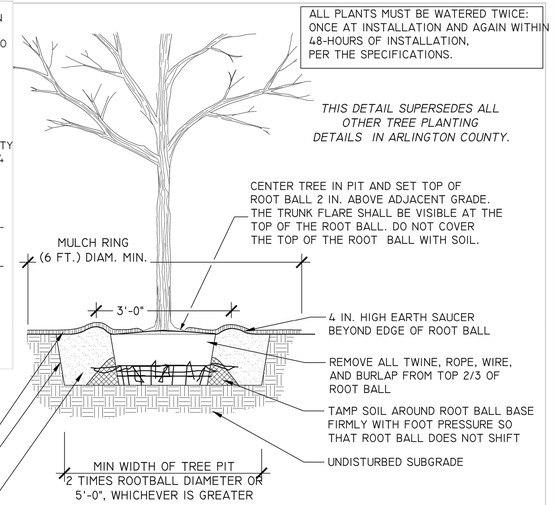
4. CONTRACTOR SHALL LEGALLY REMOVE EXCESS SOIL & DEBRIS FROM SITE.

5. TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.

6. TREES MAY ONLY BE STAKED IF REQUIRED BY THE COUNTY URBAN FORESTER. REFER TO STAKING DETAILS.

ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.

THIS DETAIL SUPERSEDES ALL OTHER TREE PLANTING DETAILS IN ARLINGTON COUNTY.



TREE PLANTING DETAIL

NOT TO SCALE

FOR OPEN PLANTING AREAS FREE OF PAVING OR GRATES
329300.1 (2019)

ARLINGTON VIRGINIA DPR

NOTES

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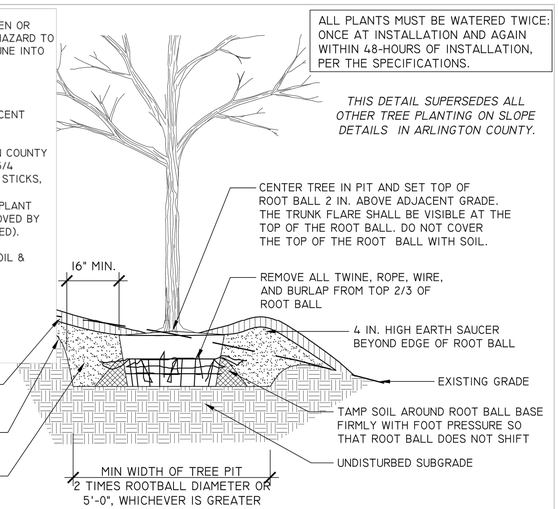
THIS DETAIL SUPERSEDES ALL OTHER TREE PLANTING ON SLOPE DETAILS IN ARLINGTON COUNTY.



TREE PLANTING ON SLOPE

1/2" = 1'-0"

FOR OPEN PLANTING AREAS FREE OF PAVING OR GRATES
329300.2 (2019)

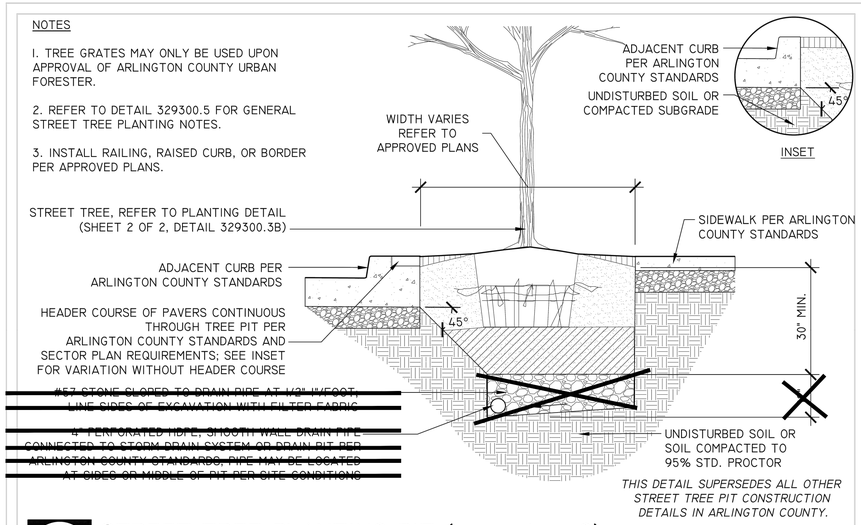
ARLINGTON VIRGINIA DPR

NOTES

1. TREE GRATES MAY ONLY BE USED UPON APPROVAL OF ARLINGTON COUNTY URBAN FORESTER.

2. REFER TO DETAIL 329300.5 FOR GENERAL STREET TREE PLANTING NOTES.

3. INSTALL RAILING, RAISED CURB, OR BORDER PER APPROVED PLANS.



THIS DETAIL SUPERSEDES ALL OTHER STREET TREE PIT CONSTRUCTION DETAILS IN ARLINGTON COUNTY.

STREET TREE PLANTING PIT (SHEET 1 OF 2)

1/2" - 1'-0"

FOR TREE PLANTING PITS IN RIGHT-OF-WAY & ADJACENT TO PAVING
329300.3A (2020)

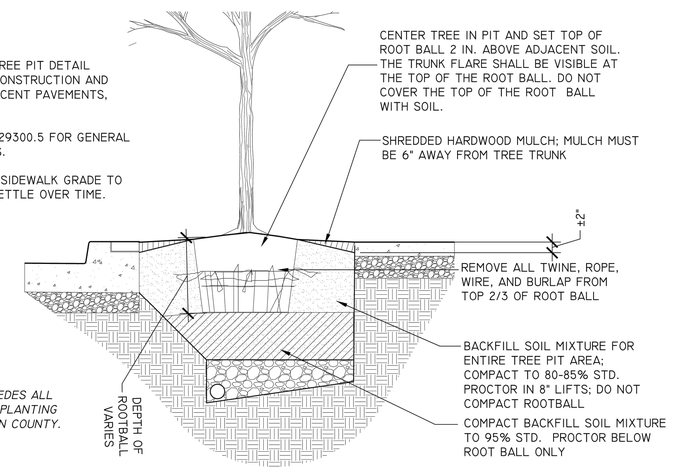
ARLINGTON VIRGINIA DPR

NOTES

1. REFER TO STREET TREE PIT DETAIL (329300.3A) FOR PIT CONSTRUCTION AND INFORMATION ON ADJACENT PAVEMENTS, CURB, AND DRAINAGE.

2. REFER TO DETAIL 329300.5 FOR GENERAL TREE PLANTING NOTES.

3. MOUND SOIL ABOVE SIDEWALK GRADE TO ALLOW FOR SOIL TO SETTLE OVER TIME.



THIS DETAIL SUPERSEDES ALL OTHER STREET TREE PLANTING DETAILS IN ARLINGTON COUNTY.

STREET TREE PLANTING PIT (SHEET 2 OF 2)

1/2" = 1'-0"

FOR TREE PLANTING PITS IN RIGHT-OF-WAY & ADJACENT TO PAVING
329300.3B (2020)

ARLINGTON VIRGINIA DPR

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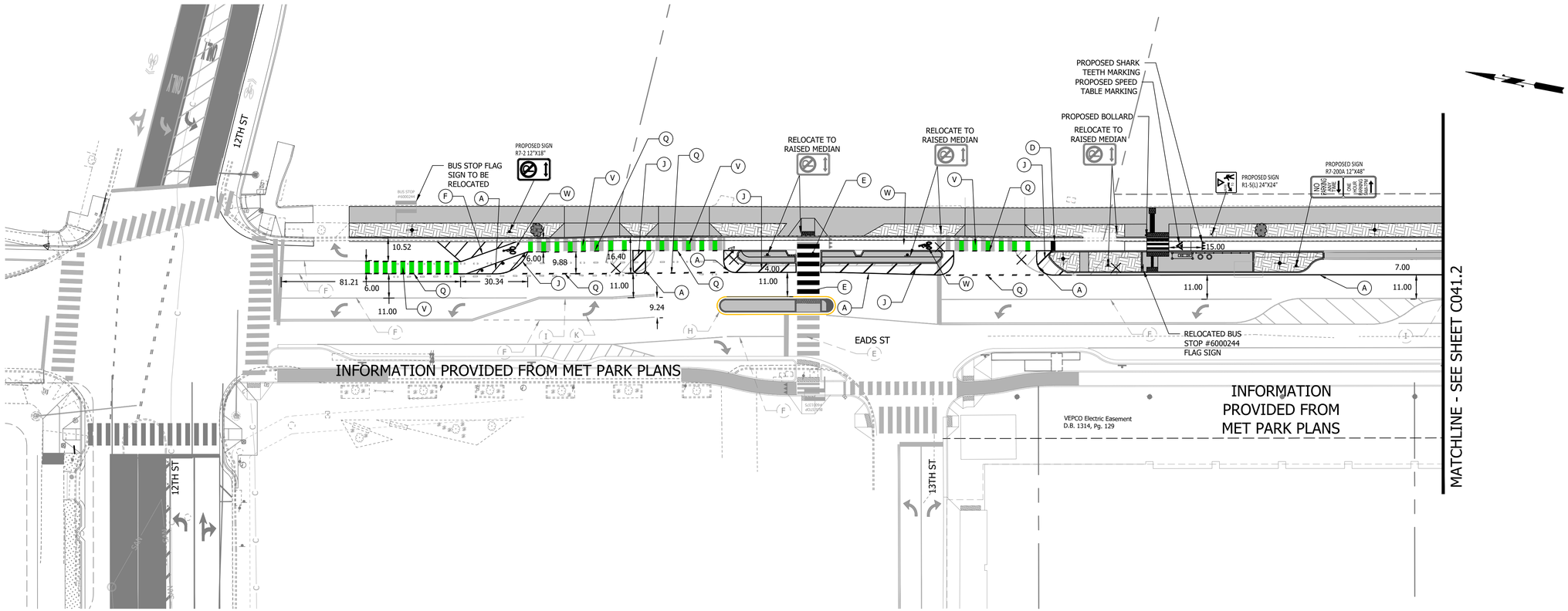
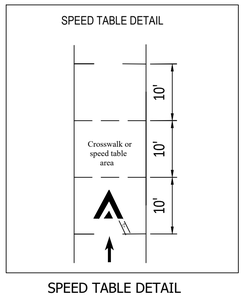
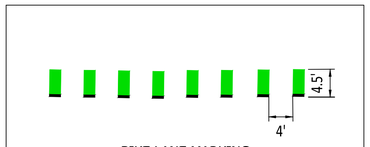
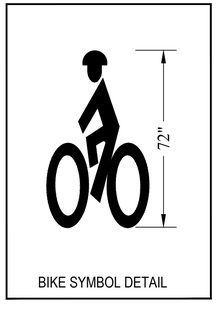




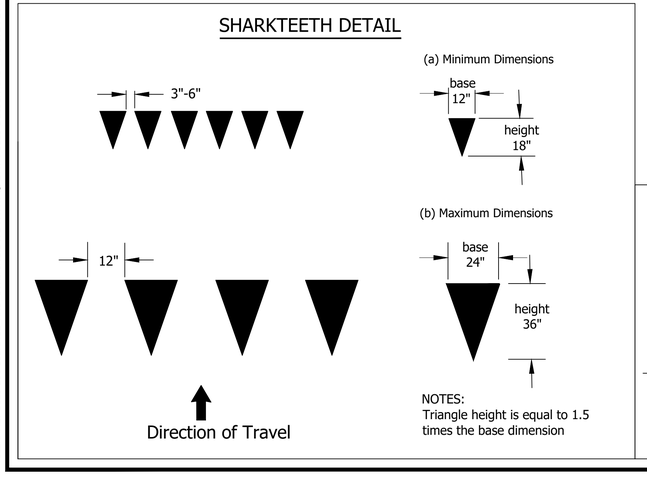
SPEED TABLE DETAIL

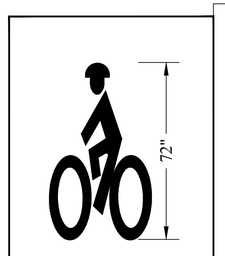


BIKE LANE MARKING



BIKE SYMBOL DETAIL

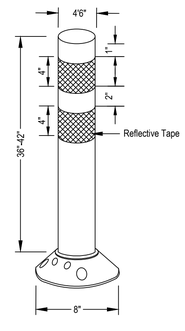




BIKE SYMBOL DETAIL

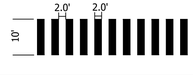
LEGEND

EXISTING		PROPOSED
	BUS STOP	
	FIRE HYDRANT	
	PARKING METER	
	SIGN	
	STRIPING	



BOLLARD DETAIL
NTS

HIGH VISIBILITY CROSSWALK



STANDARD PAVEMENT MARKING LEGEND

A	TYPE B CLASS 1	WHITE 4" WIDTH	PARKING LANES, EDGE LINES, LANE LINES
~~B~~	~~TYPE B CLASS 1~~	~~WHITE 4" WIDTH, 10' LONG, 30' SPACING~~	~~DASHED LANE LINES~~
~~C~~	~~TYPE B CLASS 1~~	~~WHITE 4" WIDTH, 2' LONG 10' SPACING~~	~~LANE TRANSITIONS, TURN LANE SKIPS~~
D	TYPE B CLASS 1	WHITE 18" WIDTH	STOP BARS
E	TYPE B CLASS 1	WHITE 24" WIDTH	CONTINENTAL CROSS WALKS
F	TYPE B CLASS 1	WHITE 6" WIDTH	TURN LANES, TRANSVERSE CROSS WALKS, BIKE LANES
~~G~~	~~TYPE B CLASS 1~~	~~YELLOW 4" WIDTH, 10' LONG, 30' SPACING~~	~~DIVIDED TRAFFIC, TWO WAY TURN LANES~~
H	TYPE B CLASS 1	YELLOW 4" WIDTH	EDGE LINES
I	TYPE B CLASS 1	YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING	CENTERLINES
J	TYPE B CLASS 1	WHITE 6" WIDTH, 10' SPACING @45 DEGREE	HATCH LINES, SAFETY ZONES
K	TYPE B CLASS 1	WHITE SINGLE ARROW	TURN LANES
~~L~~	~~TYPE B CLASS 1~~	~~WHITE COMBINATION ARROW~~	~~TURN LANES~~
~~M~~	~~TYPE B CLASS 1~~	~~WHITE 8' LETTERS~~	~~PAVEMENT LETTERS (STOP, YIELD, BUS, ONLY, etc.)~~
~~N~~	~~TYPE B CLASS 1~~	~~WHITE 6" WIDTH, 2' LONG, 10' SPACING~~	~~LANE TRANSITIONS, TURN LANE SKIPS~~
~~O~~	~~TYPE B CLASS 1~~	~~WHITE 12" WIDTH, 20' SPACING @45 DEGREE~~	~~GORE MARKINGS~~
~~P~~	~~TYPE B CLASS 1~~	~~YELLOW 8" WIDTH @45 DEGREE~~	~~GORE MARKINGS~~
Q	TYPE B CLASS 1	WHITE 6" WIDTH, 2' LONG, 4' SPACING	LANE TRANSITIONS
~~R~~	~~TYPE B CLASS 1~~	~~WHITE 4" WIDTH, DOUBLE LINE, 4' SPACING~~	~~CURB EXTENSIONS~~
~~S~~	~~TYPE B CLASS 1~~	~~WHITE 24" WIDTH~~	~~VDOT - STOP BARS~~
~~T~~	~~TYPE B CLASS 1~~	~~YELLOW 6" WIDTH, 2' LONG, 4' SPACING~~	~~LANE TRANSITIONS~~
~~U~~	~~TYPE B CLASS 1~~	~~WHITE 4" WIDTH, 2' LONG, 4' SPACING~~	~~DRIVEWAY CROSSING~~
V	MMA	GREEN COLORED ASPHALT COATING	BIKE LANE STRIPING
W	TYPE B CLASS 1	STD BICYCLE SYMBOL	PAVEMENT SYMBOLS

NOTES:

X = ERADICATION OF MARKING

PAVEMENT MARKING NOTES:

1. STREET WIDTH MEASUREMENTS ARE FROM FACE OF CURB TO FACE OF CURB. LANES ARE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING .
2. CONTACT DES-TRANSPORTATION ENGINEERING & OPERATIONS CONSTRUCTION MANAGEMENT SPECIALIST OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 TO APPROVE MARKING LAYOUT 48 HOURS PRIOR TO INSTALLATION OF MARKINGS.
3. PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERE TO:
   A. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   B. ARLINGTON COUNTY MARKING STANDARDS.
4. ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.
5. STOP BARS SHALL BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHALL BE NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVELED WAY.
6. CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.
7. LEFT TURN ARROWS SHALL BE LOCATED 25' BACK FROM STOP BAR. FOR ADDITIONAL ARROWS FOLLOW COUNTY MARKING STANDARDS.
8. ON-STREET PARKING LANE IS 7' WIDE (UNLESS OTHERWISE NOTED) AND MARKED WITH 4" WIDE WHITE LINES. BEGINNING AND END OF PARKING SHALL BE MARKED WITH AN END LINE PERPENDICULAR TO CURB EXCEPT AT NUBS OR WHERE OTHERWISE INDICATED.
9. SHARED LANE MARKINGS SHALL BE PLACED IN CENTER OF LANE, 250' APART UNLESS OTHERWISE SPECIFIED.
10. BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.
11. EDGE LINES ARE ONLY REQUIRED WHERE SHOWN ON THE PLANS.
12. FOR DETAILS SEE ARLINGTON COUNTY PAVEMENT MARKING SPECIFICATION, DETAILS MK-1 TO MK-12

SIGN NOTES:

1. FOR ALL SIGN POSTS PLACED IN CONCRETE USE 7 GAUGE HEAVY DUTY ANCHOR (30"X2.50") WITH HARDWARE FOR 2" POST. USE $\frac{3}{8}$" CORNER BOLT WITH FLANGED NUT AND $\frac{3}{8}$" DRIVER RIVET WITH WASHER.
2. CONTACT TE&O CONSTRUCTION MANAGER OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 48 HRS PRIOR TO POURING CONCRETE. ALTERNATIVE CONTACT AT 703-228-3788 OR 571-414-7497.

ARLINGTON VIRGINIA
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S EADS STREET PHASE II
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SIGNING AND PAVEMENT MARKING PLAN

DESIGNED: NS
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SCALE:

0 25 50
GRAPHIC SCALE

C101.1

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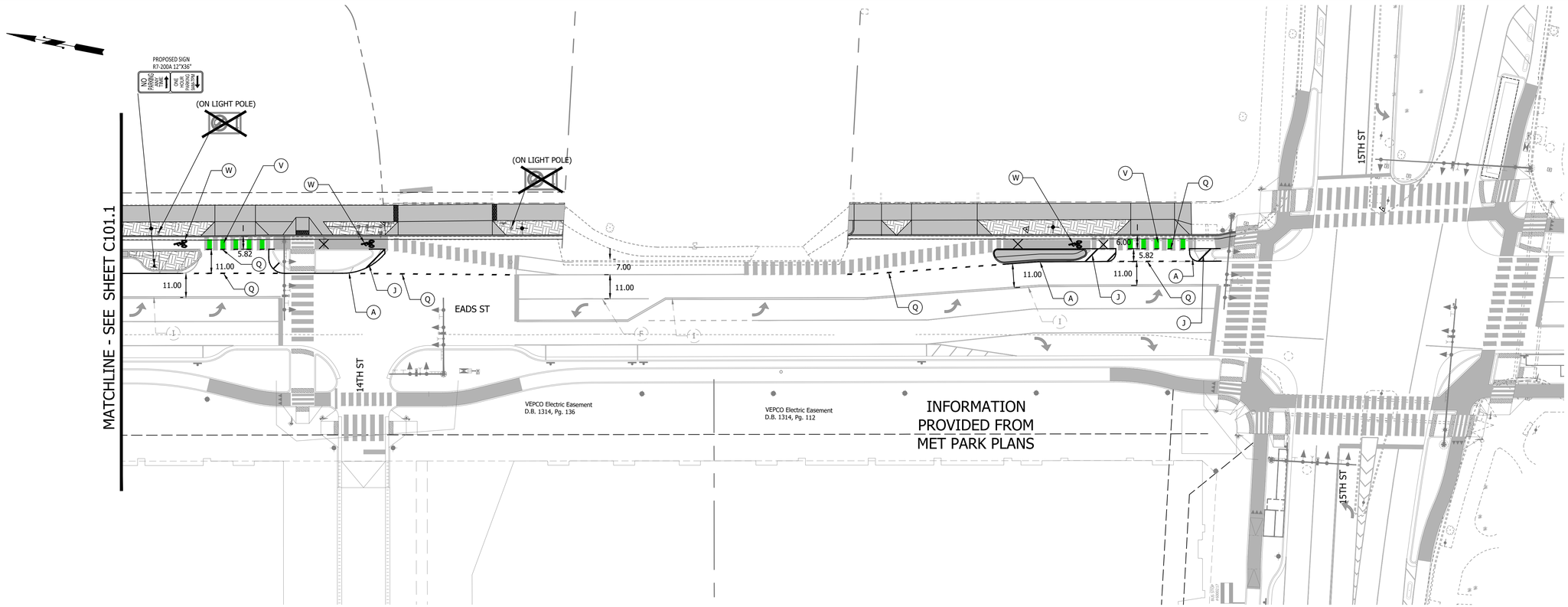
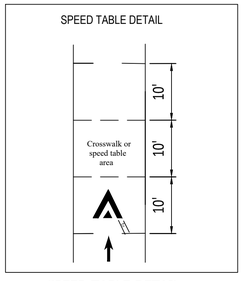
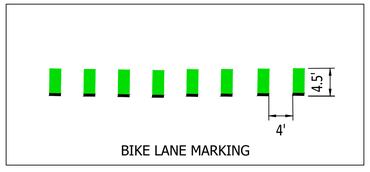
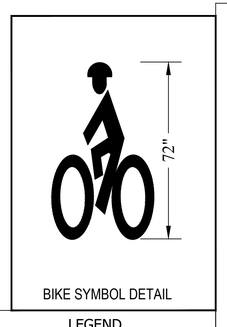




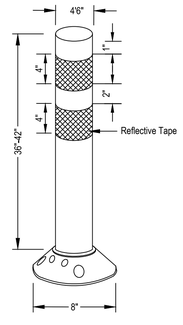
SPEED TABLE DETAIL



BIKE LANE MARKING

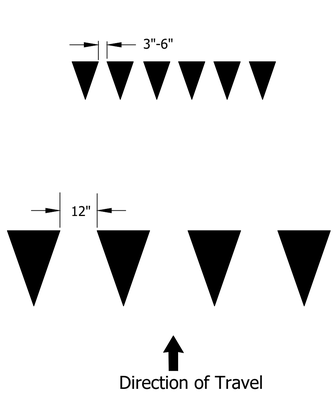


BIKE SYMBOL DETAIL

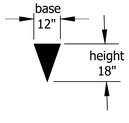


BOLLARD DETAIL
NTS

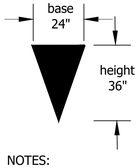
SHARKTEETH DETAIL



(a) Minimum Dimensions



(b) Maximum Dimensions

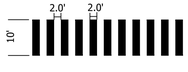


NOTES:
Triangle height is equal to 1.5 times the base dimension

LEGEND

EXISTING		PROPOSED
	BUS STOP	
	FIRE HYDRANT	
	PARKING METER	
	SIGN	
	STRIPING	

HIGH VISIBILITY CROSSWALK



STANDARD PAVEMENT MARKING LEGEND

A	TYPE B CLASS 1	WHITE 4" WIDTH	PARKING LANES, EDGE LINES, LANE LINES
~~B~~	~~TYPE B CLASS 1~~	~~WHITE 4" WIDTH, 10' LONG, 30' SPACING~~	~~DASHED LANE LINES~~
~~C~~	~~TYPE B CLASS 1~~	~~WHITE 4" WIDTH, 2' LONG 10' SPACING~~	~~LANE TRANSITIONS, TURN LANE SKIPS~~
~~D~~	~~TYPE B CLASS 1~~	~~WHITE 18" WIDTH~~	~~STOP BARS~~
E	TYPE B CLASS 1	WHITE 24" WIDTH	CONTINENTAL CROSS WALKS
F	TYPE B CLASS 1	WHITE 6" WIDTH	TURN LANES, TRANSVERSE CROSS WALKS, BIKE LANES
~~G~~	~~TYPE B CLASS 1~~	~~YELLOW 4" WIDTH, 10' LONG, 30' SPACING~~	~~DIVIDED TRAFFIC, TWO WAY TURN LANES~~
H	TYPE B CLASS 1	YELLOW 4" WIDTH	EDGE LINES
I	TYPE B CLASS 1	YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING	CENTERLINES
J	TYPE B CLASS 1	WHITE 6" WIDTH, 10' SPACING @45 DEGREE	HATCH LINES, SAFETY ZONES
K	TYPE B CLASS 1	WHITE SINGLE ARROW	TURN LANES
~~L~~	~~TYPE B CLASS 1~~	~~WHITE COMBINATION ARROW~~	~~TURN LANES~~
~~M~~	~~TYPE B CLASS 1~~	~~WHITE 8' LETTERS~~	~~PAVEMENT LETTERS (STOP, YIELD, BUS, ONLY, etc.)~~
~~N~~	~~TYPE B CLASS 1~~	~~WHITE 6" WIDTH, 2' LONG, 10' SPACING~~	~~LANE TRANSITIONS, TURN LANE SKIPS~~
~~O~~	~~TYPE B CLASS 1~~	~~WHITE 12" WIDTH, 20' SPACING @45 DEGREE~~	~~GORE MARKINGS~~
~~P~~	~~TYPE B CLASS 1~~	~~YELLOW 8" WIDTH @45 DEGREE~~	~~GORE MARKINGS~~
Q	TYPE B CLASS 1	WHITE 6" WIDTH, 2' LONG, 4' SPACING	LANE TRANSITIONS
~~R~~	~~TYPE B CLASS 1~~	~~WHITE 4" WIDTH, DOUBLE LINE, 4' SPACING~~	~~CURB EXTENSIONS~~
~~S~~	~~TYPE B CLASS 1~~	~~WHITE 24" WIDTH~~	~~VDOT - STOP BARS~~
~~T~~	~~TYPE B CLASS 1~~	~~YELLOW 6" WIDTH, 2' LONG, 4' SPACING~~	~~LANE TRANSITIONS~~
~~U~~	~~TYPE B CLASS 1~~	~~WHITE 4" WIDTH, 2' LONG, 4' SPACING~~	~~DRIVEWAY CROSSING~~
V	MMA	GREEN COLORED ASPHALT COATING	BIKE LANE STRIPING
W	TYPE B CLASS 1	STD BICYCLE SYMBOL	PAVEMENT SYMBOLS

NOTES:

X = ERADICATION OF MARKING

PAVEMENT MARKING NOTES:

1. STREET WIDTH MEASUREMENTS ARE FROM FACE OF CURB TO FACE OF CURB. LANES ARE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING .
2. CONTACT DES-TRANSPORTATION ENGINEERING & OPERATIONS CONSTRUCTION MANAGEMENT SPECIALIST OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 TO APPROVE MARKING LAYOUT 48 HOURS PRIOR TO INSTALLATION OF MARKINGS.
3. PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERE TO:
   A. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   B. ARLINGTON COUNTY MARKING STANDARDS.
4. ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.
5. STOP BARS SHALL BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHALL BE NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVELED WAY.
6. CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.
7. LEFT TURN ARROWS SHALL BE LOCATED 25' BACK FROM STOP BAR. FOR ADDITIONAL ARROWS FOLLOW COUNTY MARKING STANDARDS.
8. ON-STREET PARKING LANE IS 7' WIDE (UNLESS OTHERWISE NOTED) AND MARKED WITH 4" WIDE WHITE LINES. BEGINNING AND END OF PARKING SHALL BE MARKED WITH AN END LINE PERPENDICULAR TO CURB EXCEPT AT NUBS OR WHERE OTHERWISE INDICATED.
9. SHARED LANE MARKINGS SHALL BE PLACED IN CENTER OF LANE, 250' APART UNLESS OTHERWISE SPECIFIED.
10. BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.
11. EDGE LINES ARE ONLY REQUIRED WHERE SHOWN ON THE PLANS.
12. FOR DETAILS SEE ARLINGTON COUNTY PAVEMENT MARKING SPECIFICATION, DETAILS MK-1 TO MK-12

SIGN NOTES:

1. FOR ALL SIGN POSTS PLACED IN CONCRETE USE 7 GAUGE HEAVY DUTY ANCHOR (30"X2.50") WITH HARDWARE FOR 2" POST. USE $\frac{3}{8}$" CORNER BOLT WITH FLANGED NUT AND $\frac{3}{8}$" DRIVER RIVET WITH WASHER.
2. CONTACT TE&O CONSTRUCTION MANAGER OR HIS DESIGNEE AT 703-228-6598 OR 571-437-1077 48 HRS PRIOR TO POURING CONCRETE. ALTERNATIVE CONTACT AT 703-228-3788 OR 571-414-7497.

ARLINGTON
VIRGINIA
DEPARTMENT OF
ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

SIGNING AND PAVEMENT MARKING PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 25 50
GRAPHIC SCALE

C101.2

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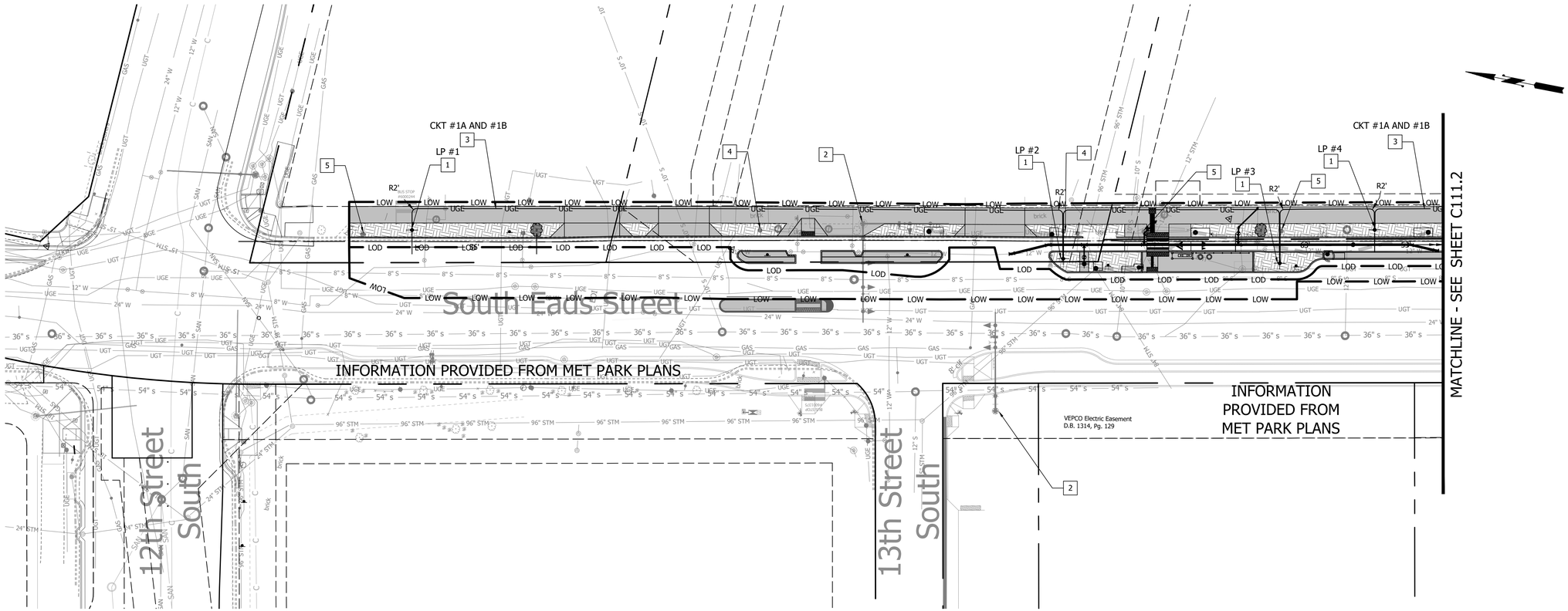
REVISED ON 01/03/2022



CONSTRUCTION NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL LED DECORATIVE POST-TOP ALUMINUM STREETLIGHT POLE WITH SINGLE POST-TOP LUMINAIRE, ON 16' POLE WITH STANDARD DEPTH FOUNDATION (ARL STD. DWG #14112-01), SEE ARLINGTON COUNTY LIGHTING SPECIFICATIONS & STANDARDS.
2. EXISTING TRAFFIC SIGNAL AND/OR PED BUTTON PER MET PARK PLANS
3. CONTRACTOR SHALL FURNISH AND INSTALL 1-2" DIA, ELECTRICAL CONDUIT PER ARL STD. DWG #14030-01.
4. CONTRACTOR SHALL COORDINATE WITH DOMINION ENERGY TO UNINSTALL DEV LIGHT POLE PER NOTES ON THIS SHEET.
5. CONTRACTOR SHALL UNINSTALL ARLINGTON COUNTY LIGHT POLE PER NOTES ON THIS SHEET.
6. CONTRACTOR SHALL CONNECT TO LIGHT POLE, THE METER CONNECTION WORK SHALL INCLUDE ALL COMPONENTS NEEDED TO COMPLETE THE WORK AND SHALL FOLLOW THE ARLINGTON COUNTY LIGHTING SPECIFICATIONS & STANDARDS.
7. PROPOSED LIGHTING PER MET PARK PLANS

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR USING THE PROPER MEANS AND METHODS OF CONSTRUCTION TO INSTALL THE APPROPRIATE TYPE OF FOUNDATIONS, POLES, LUMINARIES, CONDUITS, WIRING, GROUNDING AND ALL OTHER INCIDENTALS NECESSARY FOR A COMPLETE INSTALLATION OF THE PROPOSED STREETLIGHTS. IT IS RECOMMENDED FOR CONTRACTOR TO PROBE OR EXPLORE THE AVAILABLE DEPTH IN ADVANCE TO DETERMINE THE APPROXIMATE TYPE OF STREETLIGHT FOUNDATION, PROBING AND EXPLORING ARE CONSIDERED INCIDENTAL FOR INSTALLING THE STREETLIGHT FOUNDATION AND NO SEPARATE MEASUREMENT AND PAYMENT WILL BE MADE.
2. CONDUITS ALIGNMENT RUNS, STREETLIGHT FOUNDATIONS AND JUNCTION BOX LOCATIONS WERE DRAWN BASED ON AVAILABLE INFORMATION, FIELD LOCATE AND/OR ADJUST ALIGNMENTS AND PLACEMENTS IF NECESSARY DUE TO SITE CONDITION, FOLLOW THE ARLINGTON COUNTY LIGHTING SPECIFICATIONS & STANDARDS.
3. CONTRACTOR SHALL COORDINATE SERVICE DISCONNECTS AND CONNECTIONS WITH ARLINGTON COUNTY AND DOMINION ENERGY VIRGINIA (DEV).

LIGHTING REMOVAL NOTES

1. EXISTING LIGHTING SHALL NOT BE REMOVED WITHOUT TEMPORARY LIGHTING OR PROPOSED LIGHTING BEING IN PLACE.
2. CONTRACTOR TO COORDINATE WITH DOMINION ENERGY FOR THE REMOVAL OF DOMINION ENERGY OWNED LIGHTS. CONTRACTOR SHALL NOT REMOVE DOMINION ENERGY LIGHTS WITHOUT THEIR APPROVAL. ANY DAMAGE TO THE DOMINION ENERGY LIGHTS DUE TO CONSTRUCTION SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
3. CONTRACTOR SHALL CAREFULLY REMOVE ARLINGTON COUNTY LIGHT POLES AND COORDINATE WITH THE ARL. CONSTRUCTION MANAGER FOR DELIVERY TO THE COUNTY FOR STORAGE. THE LAMPS (LUMINARIES) SHALL BE LABELED WITH THE POLE NUMBER PRIOR TO DELIVERY. ALL EXISTING ELECTRICAL FIXTURE AND FOUNDATIONS SHALL BE REMOVED A MINIMUM OF 12" BELOW GRADE.
4. ABANDON EXISTING CONDUIT IN PLACE.

CIRCUIT RUN # 1A - VOLTAGE DROP FROM EXISTING METER AND FOUR (4) POST-TOP LUMINAIRES POLES (EX LP #1, EX LP# 3, LP #6, LP #4, LP #2)

CKT #	FROM	TO	CKT LENGTH	WIRE SIZE	QTY. OF LIGHTS ON POLE	TOTAL QTY. OF LIGHTS ON CKT	AMPERES THRU CABLE	VOLTAGE DROP IN THIS SECTION
PANEL FEED	EX. METER							
CKT1-1A	METER	EX LP #1	39	#6 AWG	2	7	3.38	0.05
CKT1-1A	EX LP#1	EX LP #3	187	#6 AWG	2	5	2.42	0.18
CKT1-1A	EX LP#3	LP #6	442	#6 AWG	1	3	1.45	0.25
CKT1-1A	LP #6	LP #4	248	#6 AWG	1	2	0.97	0.09
CKT1-1A	LP #2	LP #2	175	#6 AWG	1	1	0.48	0.03
						Total Voltage Drop of Circuit Run # 2A at last pole (V):		0.61
						Percent Voltage Drop for Circuit Run # 2A at last pole:		0.51%

CIRCUIT RUN # 1B - VOLTAGE DROP FROM EXISTING METER AND FOUR (4) POST-TOP LUMINAIRES POLES (EX LP# 2, LP #9, LP #5, LP #3, LP #1)

CKT #	FROM	TO	CKT LENGTH	WIRE SIZE	QTY. OF LIGHTS ON POLE	TOTAL QTY. OF LIGHTS ON CKT	AMPERES THRU CABLE	VOLTAGE DROP IN THIS SECTION
PANEL FEED	EX. METER							
CKT1-1B	METER	EX LP#2	132	#6 AWG	2	6	2.90	0.15
CKT1-1B	EX LP#2	LP #9	267	#6 AWG	1	4	1.93	0.20
CKT1-1B	LP #9	LP #5	446	#6 AWG	1	3	1.45	0.26
CKT1-1B	LP #5	LP #3	150	#6 AWG	1	2	0.97	0.06
CKT1-1B	LP #3	LP #1	407	#6 AWG	1	1	0.48	0.08
						Total Voltage Drop of Circuit Run # 2B at last pole (V):		0.75
						Percent Voltage Drop for Circuit Run # 2B at last pole:		0.62%

STREETLIGHT POLE CONTROL AND SCHEDULE

LP #	POLE DECAL ID	STATION (S EADS ST.)	OFFSET (℄ POLE)	TYPE	MATERIAL	HEIGHT	COLOR	FOUNDATION TYPE	AC STD. LUMINAIRE DWG.#	AC STD. FOUNDATION DWG. #
LP #1	EAD1201S	10+78.44	5.23' (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01
LP #2	EAD1301S	13+73.12	4.79' (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01
LP #3	EAD1303S	14+51.09	5.10' (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01
LP #4	EAD1305S	15+14.08	5.19' (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01

CC23 - S EADS STREET SCHEDULE OF ELECTRICAL SERVICE

3/31/2021

CIRCUIT NUMBER		STREETLIGHTS SERVED	CONNECTED LOAD KW	CONNECTED LOAD AMPS	PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS	FRAME SIZE	TRIP SIZE	REMARKS
CKT - 1	RUN A/B	EX LP#1, 2, 3, LP#1, 2, 3, 4, 5, 6 AND 9	0.897	7.48	1/120	2	100	20	7 - single carlyle pole (1 - 69W LED PER POLE) 3 - double carlyle pole (2 - 69W LED per pole)
		TOTAL	**0.897**	**7.48**					

CARLYLE SINGLE LUMINAIRE LED = 1.08 AMPERES

CARLYLE DOUBLE LUMINAIRE = 2.16 AMPERES

CARLYLE = 69 WATTS

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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
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WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

STREETLIGHT PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 25 50
GRAPHIC SCALE

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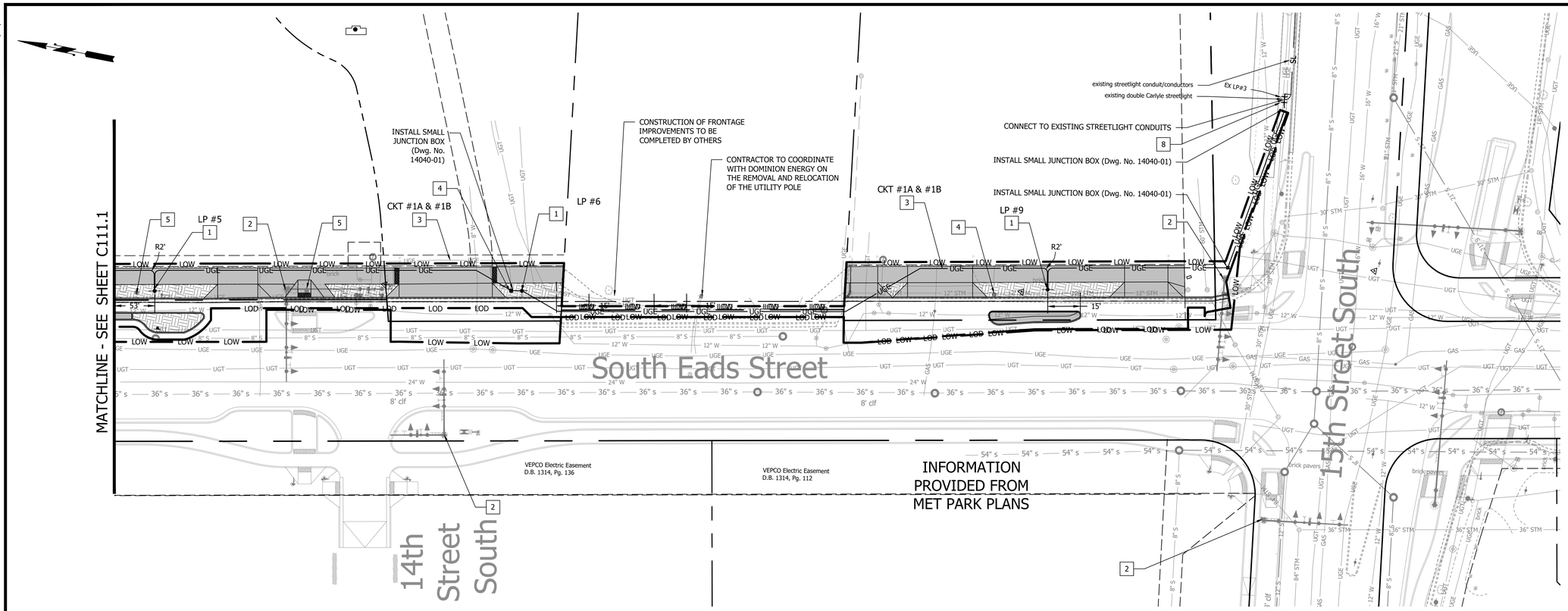
REVISED ON 01/03/2022



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7. PROPOSED LIGHTING PER MET PARK PLANS
8. PROPOSED CONNECTION

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Total Voltage Drop of Circuit Run # 2A at last pole (V): 0.61
Percent Voltage Drop for Circuit Run # 2A at last pole: 0.51%

CIRCUIT RUN # 1B - VOLTAGE DROP FROM EXISTING METER AND FOUR (4) POST-TOP LUMINAIRES POLES (EX LP# 2, LP #9, LP #5, LP #3, LP #1)

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CKT1-1B	LP #9	LP #5	446	#6 AWG	1	3	1.45	0.26
CKT1-1B	LP #5	LP #3	150	#6 AWG	1	2	0.97	0.06
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Total Voltage Drop of Circuit Run # 2B at last pole (V): 0.75
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STREETLIGHT POLE CONTROL AND SCHEDULE

LP #	POLE DECAL ID	STATION (S EADS ST.)	OFFSET (℄ POLE)	TYPE	MATERIAL	HEIGHT	COLOR	FOUNDATION TYPE	AC STD. LUMINAIRE DWG. #	AC STD. FOUNDATION DWG. #
LP #5	EAD1307S	15+66.69	5.28 (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01
LP #6	EAD1401S	17+31.93	4.96 (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01
LP #9	EAD1403S	19+78.41	5.36 (LEFT)	SINGLE CARLYLE	ALUMINUM	16'	BLACK	ON - FOUNDATION	14112-01	14060-01

CC23 - S EADS STREET SCHEDULE OF ELECTRICAL SERVICE

3/31/2021

CIRCUIT NUMBER		STREETLIGHTS SERVED	CONNECTED LOAD KW	CONNECTED LOAD AMPS	PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS	FRAME SIZE	TRIP SIZE	REMARKS
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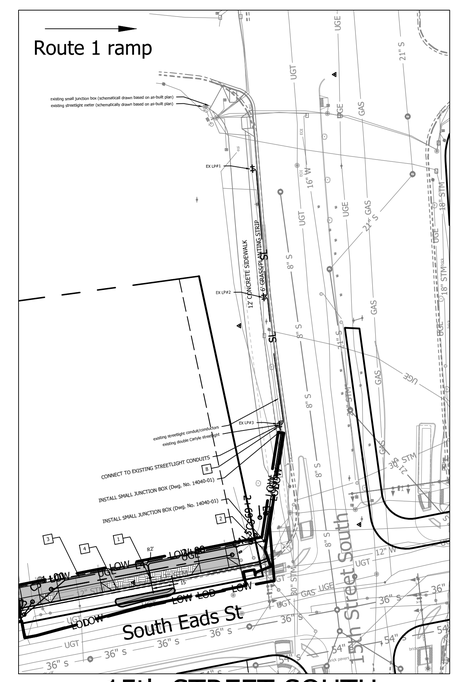

15th STREET SOUTH
Streetlight between Route 1 ramp to S Eads St

0 50 100
GRAPHIC SCALE

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
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SEAL
COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
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9/6/2023
PROFESSIONAL ENGINEER

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REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

STREETLIGHT PLAN

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:
0 25 50
GRAPHIC SCALE

C111.2

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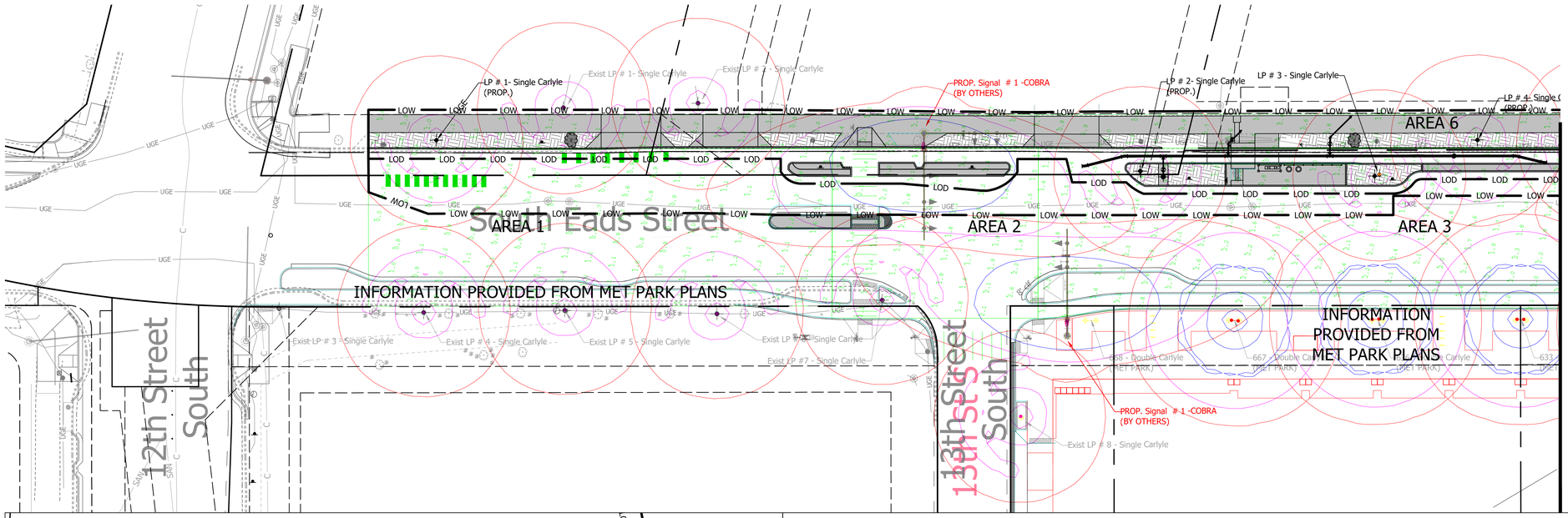
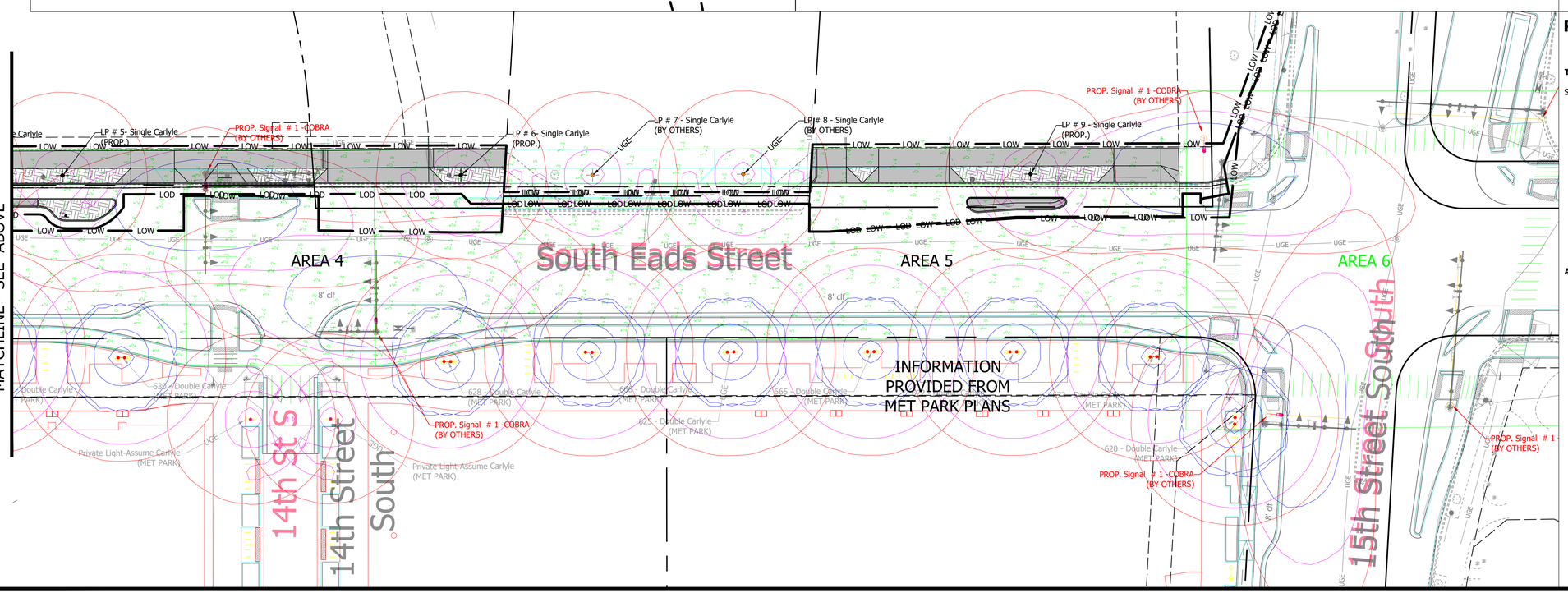


Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Tag
	11	69W GX4 350mA Type V Reflecto	BACK-BACK	0.900	RL54BANN1ASNNNA3NNNNSP1	Existing Double Carlyle
	9	69W GX4 350mA Type V Reflector	SINGLE	0.900	RL54BANN1ASNNNA3NNNNSP1	Prop. Single Carlyle
	9	69W GX4 350mA Type V Reflecto_1	SINGLE	0.900	RL54BANN1ASNNNA3NNNNSP1	Existing Single Carlyle
	6	145W Roadfocus Type III	SINGLE	0.900	RFL-145W64LED4K-T-R2M	Existing Traffic Signal Cobra

CALCULATION SUMMARY

LABEL/AREA	ILLUMINANCE LEVEL, fc		MAX, FC	MIN, FC	RATIO		RATIO	
	TARGET	AVERAGE			TARGET	AVE/MIN	TARGET	MAX/MIN
AREA 1 - from 12th St to 13th St	1.4	1.05	1.7	0.5	4	2.10	20	3.40
AREA 2 - 13th St intersection	2.2	2.05	4.1	1.2	4	1.71	20	3.42
AREA 3 - from 13th St to 14th St	1.4	1.98	4.5	0.6	4	3.30	20	7.50
AREA 4 - 14th St intersection	2.2	2.37	4.7	1.0	4	2.37	20	4.70
AREA 5 - from 14th St to 15th St	1.4	1.77	5.2	0.5	4	3.54	20	10.40
AREA 6 - East side Sidewalk from 12th St to 15th St	1.4	1.28	4.0	0.4	4	3.20	20	10.00



PHOTOMETRIC ANALYSIS SUMMARY:

TARGET DESIGN CRITERIA:

STREET CLASSIFICATIONS:

1. S EADS ST - MIXED-USE ARTERIALS - COMMERCIAL: average illuminance (fc): 1.4
2. 13TH STREET S - LOCAL COMMERCIAL average illuminance (fc): 0.8
3. 14TH STREET SOUTH - LOCAL COMERCIAL average illuminance (fc): 0.8
4. 15TH STREET SOUTH - ARTERIALS -COMMERCIAL average illuminance (fc): 1.4
5. S EADS ST INTERSECTIONS
   with 13th St S: average illuminance (1.4 + 0.8) = 2.2
   with 14th St S: average illuminance (1.4 + 0.8) = 2.2
6. SIDEWALK ALONG EAST SIDE OF S EADS STREET average illuminance (fc) will be the same as the roadway functional classification (S Eads Street) = 1.4

ASSUMPTIONS:

1. USE MET PARK PROP. STREETLIGHTS
2. USE MET PARK PROP. SIGNAL COBRA
3. TWO CARLYLE LIGHTS WILL BE INSTALLED BY AMERICANA DEVELOPERS
4. USE EXISTING CARLYLE LIGHTS BETWEEN 13TH AND 12 STREETS.
5. DOUBLE CARLYLE STREETLIGHTS PROVIDED BY MET PARK ARE EXCESSIVE.

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COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
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CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

PHOTOMETRICS ANALYSIS EXHIBIT

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 25 50
HORIZ. SCALE

C115.1

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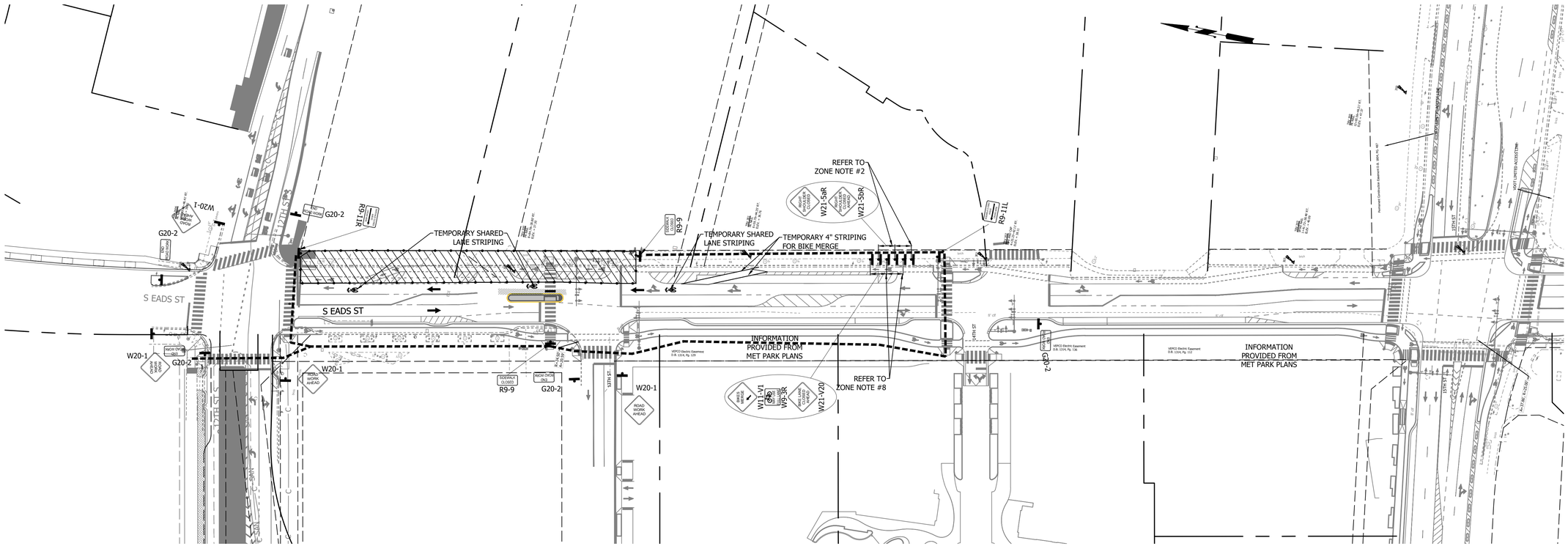

ZONE TABLE

ZONE #	TTC#		COMMENTS	DURATION	WORK HOURS
	VEHICULAR	PEDESTRIAN			
1	TTC-5.2	TTC-35.1 TTC-36.2	CONTRACTOR IS TO CONSTRUCT PROPOSED CURB AND GUTTER, SIDEWALK, DRIVEWAY ENTRANCES, AND LADNSCAPING WITHIN THE WORK ZONE	1 MONTH - 2 MONTHS	MON.-FRI. 9:00AM-4:00PM

ZONE NOTES:

1. CONTRACTOR TO MAINTAIN DRIVEWAY ACCESS AT ALL TIMES
2. WARNING SIGN SPACING :
   100' CHANNELIZATION DEVICES SPACING FOR TRANSITION A AREAS = 20'
3. OPTIONAL TTCs: REQUIRES APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO IMPLEMENTATION.
4. PEDESTRIAN ACCESS SHALL BE MAINTAINED AS SHOWN ON THIS SHEET, UTILIZING THE REFERENCED TTCs IN THE ZONE TABLE.
5. INSTALL A DRIVABLE TEMPORARY PAVEMENT SURFACE THAT SHALL BE PLACED WHERE THE EXISTING MEDIAN WAS REMOVED.
6. COORDINATE WITH THE PROJECT OFFICER PRIOR TO WORK AND CLOSURE OF DRIVEWAYS. PROPERTY OWNER SHALL BE NOTIFIED THREE WEEKS BEFORE DRIVEWAY CLOSURE. ADDITIONAL SIGNAGE AND CHANNELIZATION DEVICES MAY BE REQUIRED FOR THE CLOSURE. WORK IN THE DRIVEWAY AREA SHOULD TAKE NO MORE THAN 3-5 DAYS.
7. ONLY HALF OF THE DRIVEWAY SHALL BE CLOSED AT A TIME TO ALLOW FOR VEHICLES TO ENTER AND EXIT. WORK ON EACH HALF OF THE DRIVEWAY SHOULD TAKE NO MORE THAN 2-3 DAYS.
8. BIKE LANE CLOSURE SIGNAGE TO BE PLACED IN BETWEEN ROAD WARNING SIGNS AND BE VISIBLE FOR BOTH VEHICLES AND BIKES.
9. CONTRACTOR TO REFERENCE THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL (WAPM) AND VDOT PEDESTRIAN AND BICYCLE WORK ZONE GUIDE.

APPLIED TO ALL ZONES

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REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

MAINTENANCE OF TRAFFIC

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

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GRAPHIC SCALE

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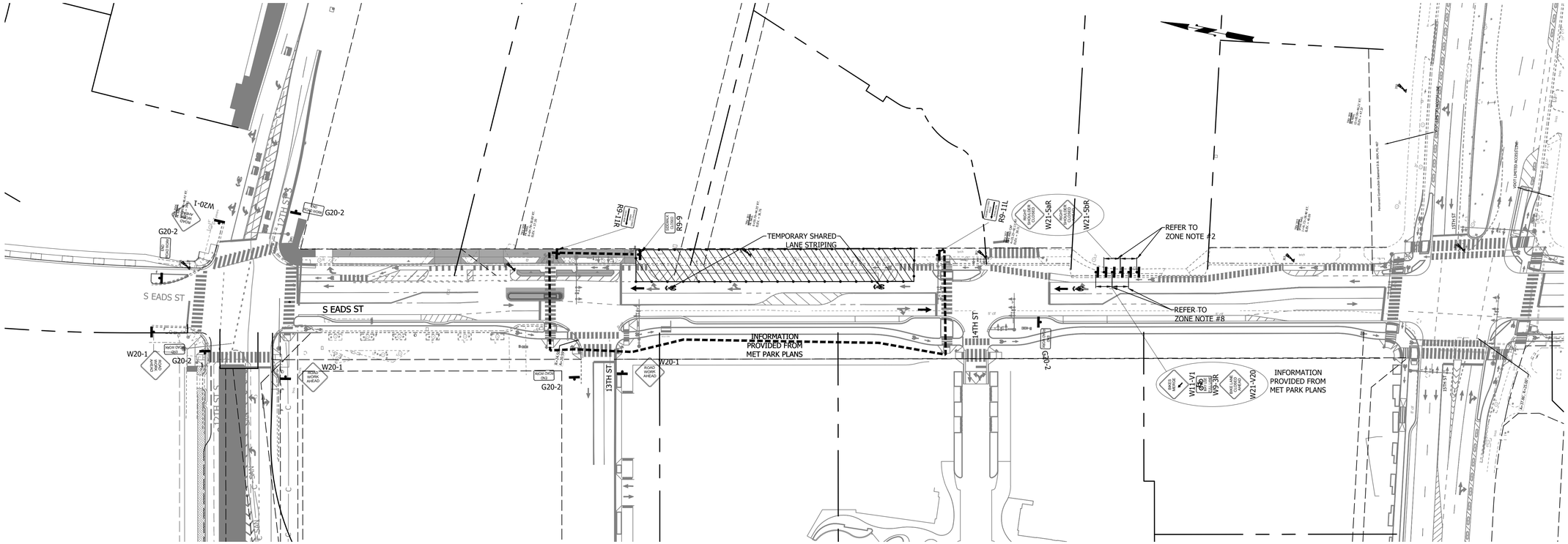

ZONE TABLE

ZONE #	TTC#		COMMENTS	DURATION	WORK HOURS
	VEHICULAR	PEDESTRIAN			
2	TTC-5.2	TTC-35.1 TTC-36.2	CONTRACTOR IS TO CONSTRUCT PROPOSED CURB AND GUTTER, SIDEWALK, DRIVEWAY ENTRANCES, PROPOSED WATERLINE, PROPOSED STORM DRAIN AND STORM STRUCTURES, AND LANDSCAPING WITHIN THE WORK ZONE	1 MONTH - 2 MONTHS	MON.-FRI. 9:00AM-4:00PM

ZONE NOTES:

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Mark Dennis PROJECT MANAGER	9/15/2023

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S EADS STREET PHASE II
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S EADS ST (12TH ST. S. TO 15TH ST. S.)

MAINTENANCE OF TRAFFIC

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

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GRAPHIC SCALE

C121.2

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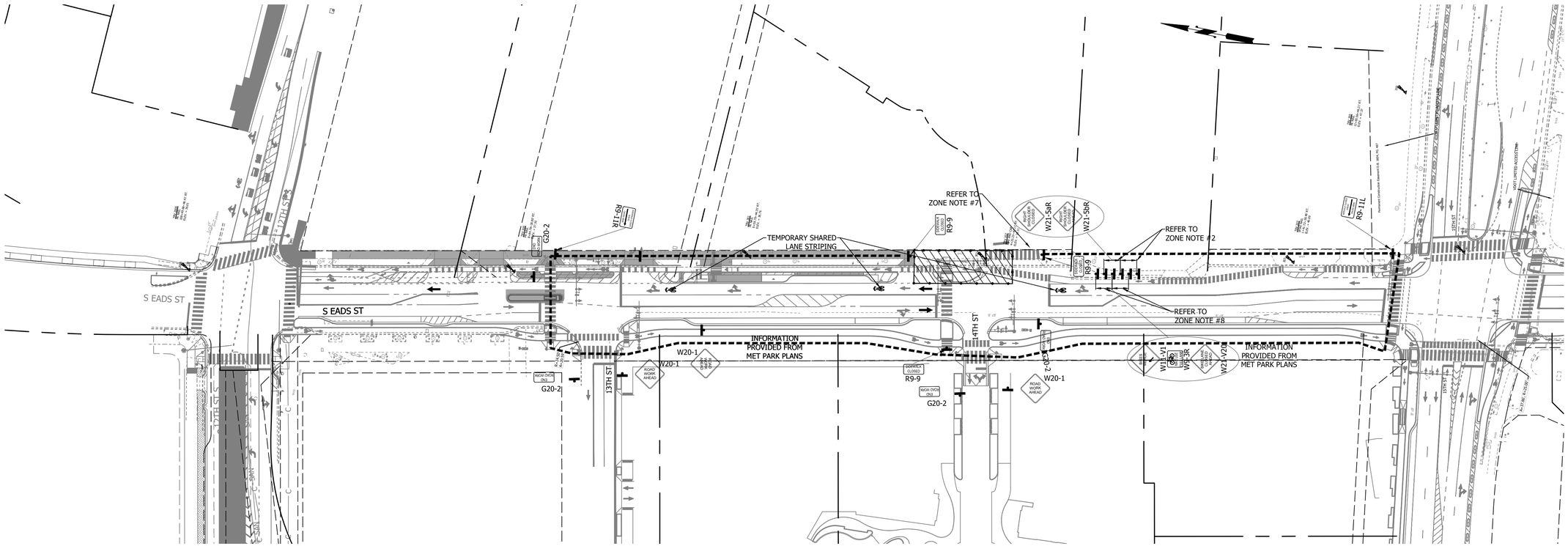

ZONE TABLE

ZONE #	TTC#		COMMENTS	DURATION	WORK HOURS
	VEHICULAR	PEDESTRIAN			
3	TTC-5.2	TTC-35.1 TTC-36.2	CONTRACTOR IS TO CONSTRUCT PROPOSED CURB AND GUTTER, SIDEWALK, DRIVEWAY ENTRANCES, AND LANDSCAPING WITHIN THE WORK ZONE	2 WEEKS - 3 WEEKS	MON.-FRI. 9:00AM-4:00PM

ZONE NOTES:

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S EADS STREET PHASE II
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MAINTENANCE OF TRAFFIC

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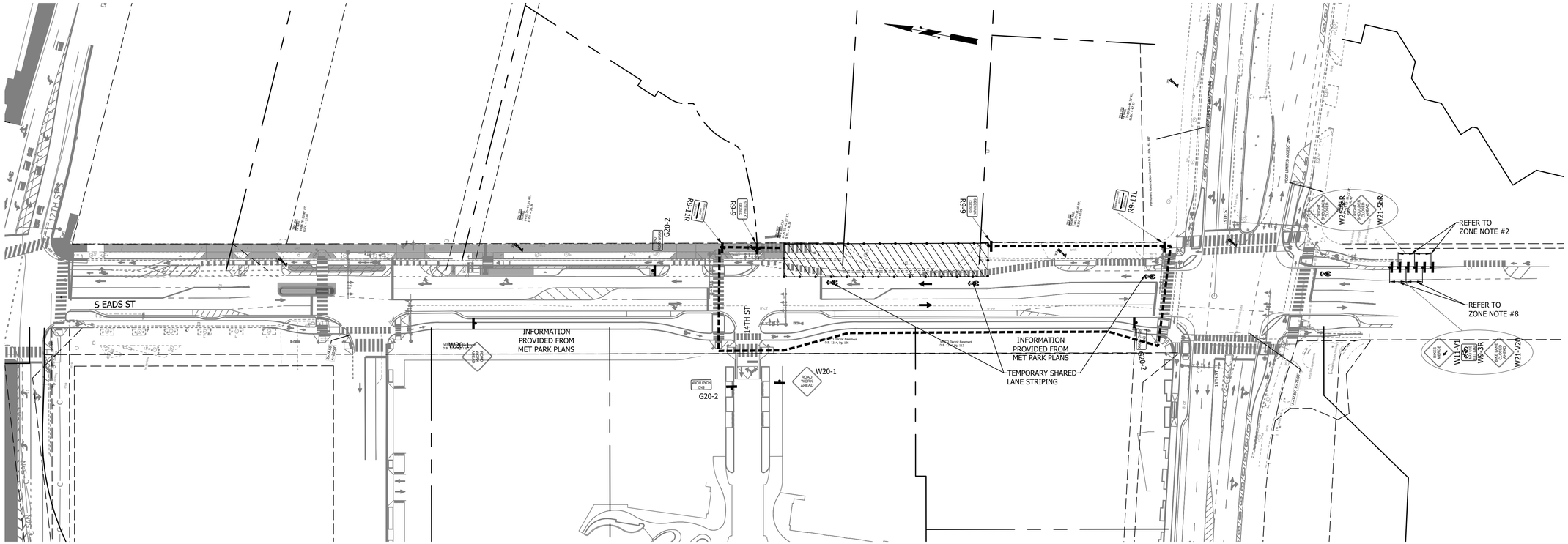

ZONE TABLE

ZONE #	TTC#		COMMENTS	DURATION	WORK HOURS
	VEHICULAR	PEDESTRIAN			
4	TTC-5.2	TTC-35.1 TTC-36.2	CONTRACTOR IS TO CONSTRUCT PROPOSED CURB AND GUTTER, SIDEWALK, DRIVEWAY ENTRANCES, AND LANDSCAPING WITHIN THE WORK ZONE	2 WEEKS - 4 WEEKS	MON.-FRI. 9:00AM-4:00PM

ZONE NOTES:

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Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

MAINTENANCE OF TRAFFIC

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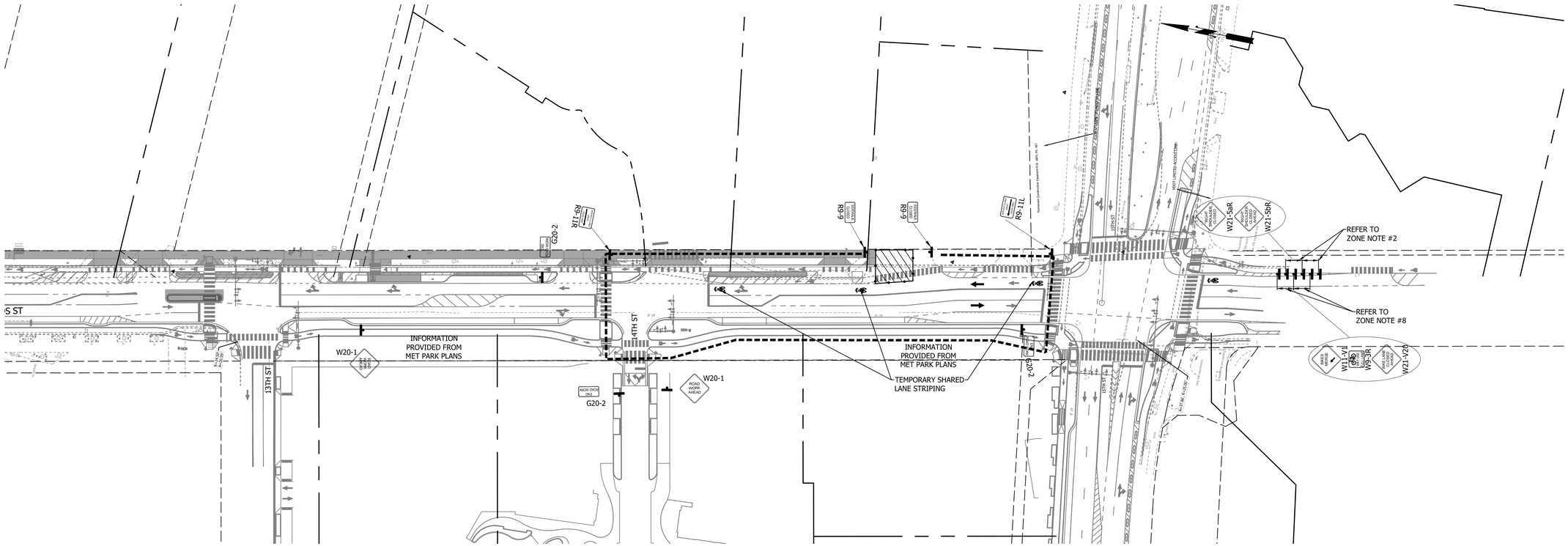

ZONE TABLE

ZONE #	TTC#		COMMENTS	DURATION	WORK HOURS
	VEHICULAR	PEDESTRIAN			
5	TTC-5.2	TTC-35.1 TTC-36.2	CONTRACTOR IS TO CONSTRUCT PROPOSED CURB AND GUTTER, SIDEWALK, DRIVEWAY ENTRANCES, AND LANDSCAPING WITHIN THE WORK ZONE	1 WEEK	MON.-FRI. 9:00AM-4:00PM

ZONE NOTES:

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S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

MAINTENANCE OF TRAFFIC

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 50 100
GRAPHIC SCALE

C121.5

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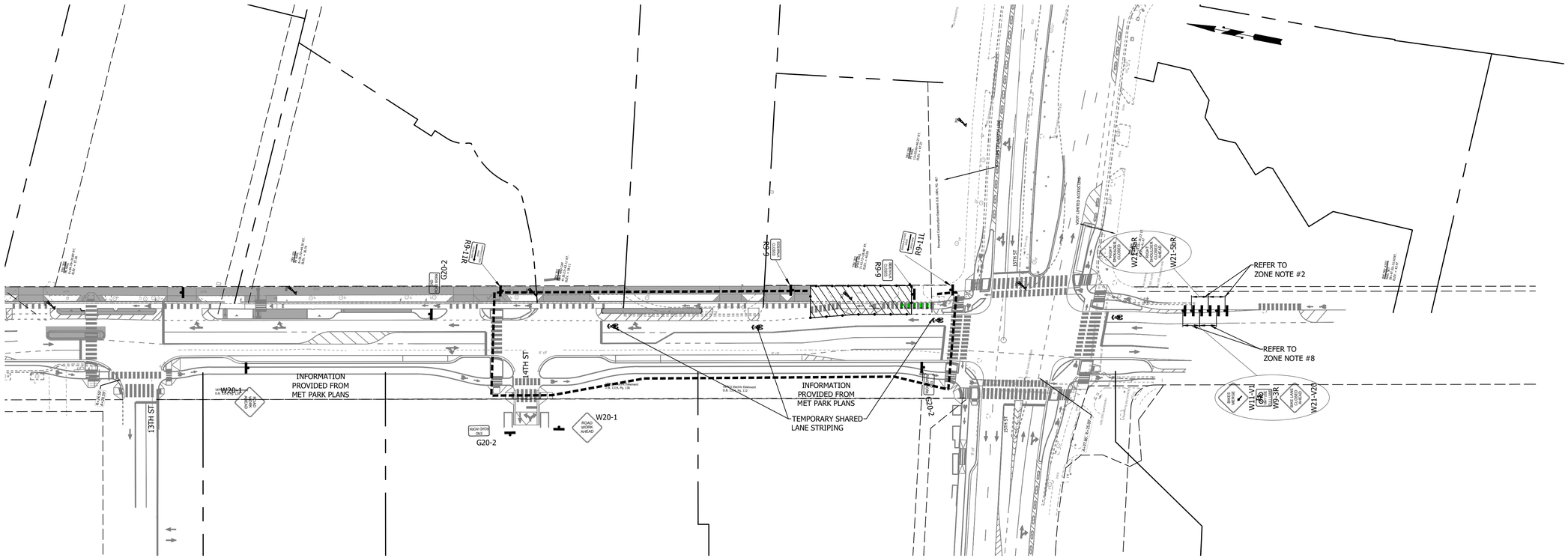

ZONE TABLE

ZONE #	TTC#		COMMENTS	DURATION	WORK HOURS
	VEHICULAR	PEDESTRIAN			
6	TTC-5.2	TTC-35.1 TTC-36.2	CONTRACTOR IS TO CONSTRUCT PROPOSED CURB AND GUTTER, SIDEWALK, DRIVEWAY ENTRANCES, AND LANDSCAPING WITHIN THE WORK ZONE	2 WEEKS - 3 WEEKS	MON.-FRI. 9:00AM-4:00PM

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

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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
DESIGN TEAM ENGINEER SUPERVISOR	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
ENGINEERING BUREAU CHIEF	9/18/2023
Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

MAINTENANCE OF TRAFFIC

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 50 100
GRAPHIC SCALE

C121.6

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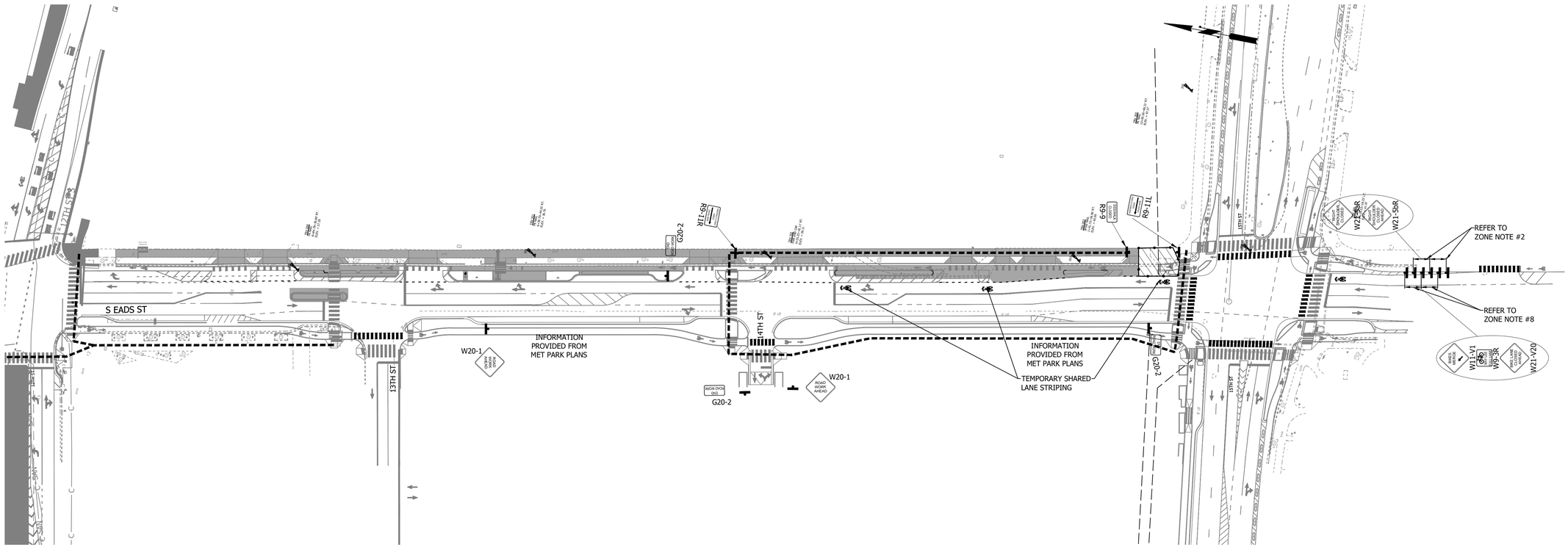

ZONE TABLE

ZONE #	TTC#		COMMENTS	DURATION	WORK HOURS
	VEHICULAR	PEDESTRIAN			
7	TTC-5.2	TTC-35.1 TTC-36.2	CONTRACTOR IS TO CONSTRUCT PROPOSED CURB AND GUTTER, SIDEWALK, DRIVEWAY ENTRANCES, AND LANDSCAPING WITHIN THE WORK ZONE	1 WEEK - 2 WEEKS	MON.-FRI. 9:00AM-4:00PM

ZONE NOTES:

1. CONTRACTOR TO MAINTAIN DRIVEWAY ACCESS AT ALL TIMES
2. WARNING SIGN SPACING :
   100' CHANNELIZATION DEVICES SPACING FOR TRANSITION A AREAS = 20'
3. OPTIONAL TTCs: REQUIRES APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO IMPLEMENTATION.
4. PEDESTRIAN ACCESS SHALL BE MAINTAINED AS SHOWN ON THIS SHEET, UTILIZING THE REFERENCED TTCs IN THE ZONE TABLE.
5. INSTALL A DRIVABLE TEMPORARY PAVEMENT SURFACE THAT SHALL BE PLACED WHERE THE EXISTING MEDIAN WAS REMOVED.
6. COORDINATE WITH THE PROJECT OFFICER PRIOR TO WORK AND CLOSURE OF DRIVEWAYS. PROPERTY OWNER SHALL BE NOTIFIED THREE WEEKS BEFORE DRIVEWAY CLOSURE. ADDITIONAL SIGNAGE AND CHANNELIZATION DEVICES MAY BE REQUIRED FOR THE CLOSURE. WORK IN THE DRIVEWAY AREA SHOULD TAKE NO MORE THAN 3-5 DAYS.
7. ONLY HALF OF THE DRIVEWAY SHALL BE CLOSED AT A TIME TO ALLOW FOR VEHICLES TO ENTER AND EXIT. WORK ON EACH HALF OF THE DRIVEWAY SHOULD TAKE NO MORE THAN 2-3 DAYS.
8. BIKE LANE CLOSURE SIGNAGE TO BE PLACED IN BETWEEN ROAD WARNING SIGNS AND BE VISIBLE FOR BOTH VEHICLES AND BIKES.
9. CONTRACTOR TO REFERENCE THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL (WAPM) AND VDOT PEDESTRIAN AND BICYCLE WORK ZONE GUIDE.

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MAINTENANCE OF TRAFFIC

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 50 100
GRAPHIC SCALE

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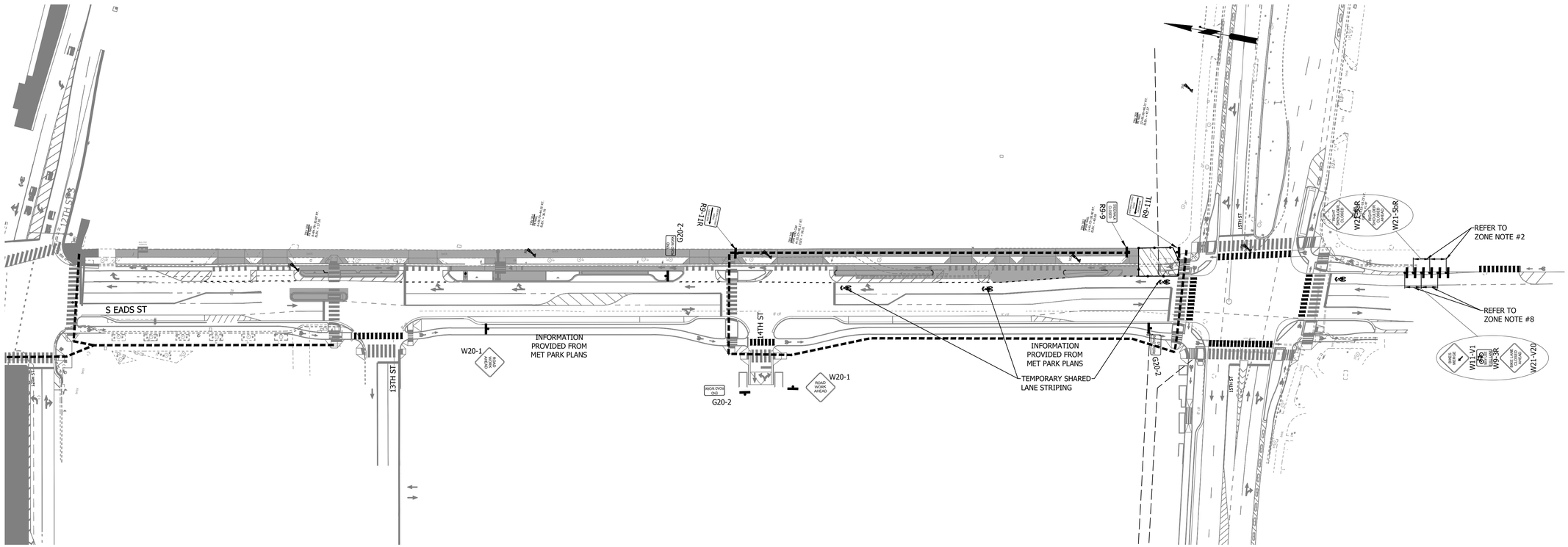

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SEAL

90% SUBMISSION

APPROVALS	DATE
[illegible]	9/18/2023
[illegible]	9/19/2023
[illegible]	9/18/2023
[illegible]	9/18/2023
Max Dennis	9/15/2023

APPROVALS ARE NOT REQUIRED WITH THIS SUBMISSION

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH & 15TH)

MAINTENANCE OF TRAFFIC

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: NOVEMBER 7 2022

SCALE:

0 50 100
GRAPHIC SCALE

C121.8

FILENAME: C121.3 MAINTENANCE OF TRAFFIC - Z9.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: TECOOK

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REVISED ON 01/03/2022

CONSTRUCTION NOTES

1. FOR ALL ARTERIAL STREETS, PORTABLE VARIABLE MESSAGE SIGNS WITH CLOSURE INFORMATION MUST BE INSTALLED AHEAD OF THE PROJECT SITE AT EACH VEHICULAR APPROACH 3 WEEKS PRIOR TO STREET CLOSURE IN LOCATIONS DIRECTED BY THE PROJECT OFFICER.
2. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
3. CONTACT TRANSPORTATION ENGINEERING OPERATIONS AT 703-228-6598 OR 571-437-1077 AND THE PROJECT OFFICER TO APPROVE MARKING LAYOUT 48 HOURS PRIOR TO INSTALLATION OF MARKINGS.
4. ONE LANE CLOSURE IN EACH DIRECTION OF TRAFFIC WILL BE PERMITTED FOR FINAL PAVEMENT OVERLAY.
5. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN THE FLOW OF TRAFFIC ON ANY INTERSECTION WITHIN THE WORK AREA.
6. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY PUBLIC SCHOOLS TWO WEEKS PRIOR TO STARTING CONSTRUCTION.
7. THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS. PRIOR TO A REQUEST FOR THE REMOVAL OF ACCESS TO ANY ADA PARKING SPACE THE CONTRACTOR MUST HAVE MADE PROVISION FOR ALTERNATIVE ADA PARKING AS INDICATED ON THE APPROVED PLAN OR AS DIRECTED BY THE PROJECT OFFICER
8. WHEN THE APPROVED PLAN CALLS FOR THE REMOVAL OF ANY PARKING METER, THE CONTRACTOR MUST MAKE A REQUEST TO THE PROJECT OFFICER AT LEAST ONE WEEK IN ADVANCE OF THE DESIRED REMOVAL. THE PROJECT OFFICER WILL THEN COORDINATE THE PARKING METER REMOVAL WITH TRAFFIC ENGINEERING AND OPERATIONS.
9. ALL TEMPORARY BUS TRAVEL LANES TO BE A MINIMUM OF 11 FEET WIDE.

MOT NOTES:

1. PARKING SHALL BE RESTRICTED BY THE COUNTY AS PART OF THE RIGHT OF WAY PERMIT. CONTACT DES-PERMITTING SECTION, 703-228-4798, AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
2. COORDINATE WITH DES-TRANSIT BUREAU AT 703-228-3049, AT LEAST 4 WEEKS PRIOR TO COMMENCEMENT OF WORK, IF TRANSIT IS AFFECTED OR IF THERE ARE ANY IMPACTS TO TRANSIT STOPS OR ROUTES. NOTE: ALL TEMPORARY AND FINAL BUS TRAVEL LANES MUST BE MINIMUM 11' WIDE.
3. NO WORK OR STORAGE SHALL BE CONDUCTED IN THE BUFFER AND TAPER AREAS.
4. ALL PROJECT SIGNAGE AND TEMPORARY STRIPING SHALL FOLLOW TTC-53.0 AND TTC-60.0 OF THE VIRGINIA WORK AREA PROTECTION MANUAL (LATEST EDITION).

PEDESTRIAN NOTE:

1. PEDESTRIANS SHALL BE APPROPRIATELY DIRECTED WITH ADVANCED WARNING SIGNS PLACED AT INTERSECTIONS, TO CROSS TO THE OPPOSITE SIDE OF THE ROADWAY IN ORDER TO PREVENT CONFLICT WITH MIDBLOCK WORK SITES.
2. A SAFE PEDESTRIAN PATH MUST BE MAINTAINED AROUND THE EXISTING AND PROPOSED TRAFFIC SIGNALS DURING CONSTRUCTION. IF A PEDESTRIAN PATH CAN NOT BE MAINTAINED DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE PROJECT OFFICER FOR APPROVAL ON AN ALTERATIVE PATH. ADDITIONAL MOT MIGHT BE REQUIRED.

MOT WARNING SIGNAGE:

1. ROAD WORK AHEAD (W20-1) AND END ROAD WORK (G20-2) SIGNAGE SHALL BE PLACED AT THE AT THE BEGINNING AND END OF THE TOTAL PROJECT AREA. THESE SIGNS SHALL NOT BE REMOVED UNTIL THE CONSTRUCTION IS FINALIZED AND ALL MOT SIGNAGE MAY BE TAKEN DOWN.

2. IF W20-1 AND G20-2 SIGNS NEED TO BE RELOCATED FOR ANY REASON, APPROVAL BY THE PROJECT OFFICER IS REQUIRED. PLACEMENTS OF SIGNS SHALL BE AT THE EXTENTS OF THE PROJECT AREA

LEGEND

- WORK ZONE AREAS
- BUFFER AND TAPER AREAS
- PEDESTRIAN PATH
- CHANNELIZING DEVICES (BARRELS/DRUMS)
- M.O.T. SIGNAGE
- DIRECTION OF TRAFFIC

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REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

MAINTENANCE OF TRAFFIC NOTES & DETAILS

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

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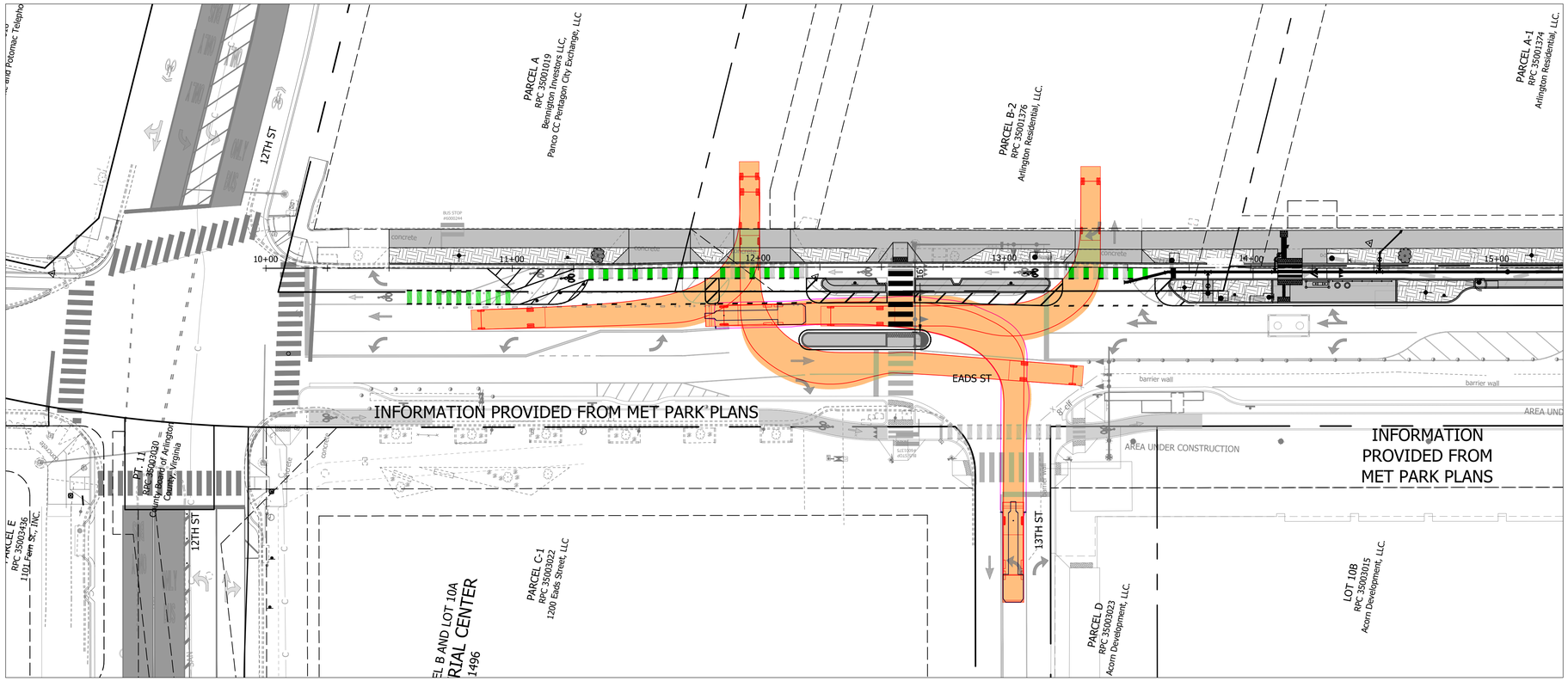


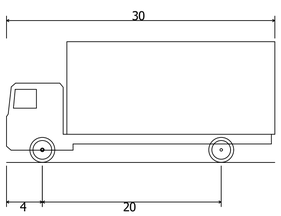
TURNING MOVEMENT ANALYSIS NARRATIVE

EAST SIDE OF EADS STREET

THE DESIGN VEHICLES FOR THE ANALYSIS ARE:
- SU-30 FOR ALL DRIVEWAYS
- PASSENGER CAR FOR PARKING GARAGE ENTRANCE AND EXIT
- FIRE TRUCK FOR LEFT TURN FROM 13TH STREET S

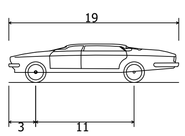
THE DESIGN SPEED OF EADS STREET IS 30 MPH.

ALL TURNING MOVEMENTS ON TO EADS STREET CAN BE ACCOMPLISHED WITH THE PROPOSED LANE CONFIGURATION.



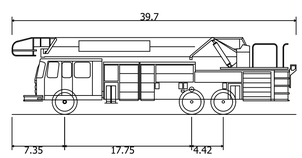
SU-30 - Single Unit Truck

Overall Length	30.000ft
Overall Width	8.000ft
Overall Body Height	13.500ft
Min Body Ground Clearance	1.367ft
Track Width	8.000ft
Lock-to-lock time	5.00s
Max Steering Angle (Virtual)	31.80°



P - Passenger Car

Overall Length	19.000ft
Overall Width	7.000ft
Overall Body Height	4.300ft
Min Body Ground Clearance	1.115ft
Track Width	6.000ft
Lock-to-lock time	4.00s
Max Steering Angle (Virtual)	31.60°



ACG - Fire Ladder Truck

Overall Length	39.700ft
Overall Width	8.600ft
Overall Body Height	10.751ft
Min Body Ground Clearance	1.572ft
Track Width	8.000ft
Lock-to-lock time	4.00s
Max Wheel Angle	45.00°

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Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

TURNING MOVEMENT EXHIBIT

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 25 50
GRAPHIC SCALE

C200.1

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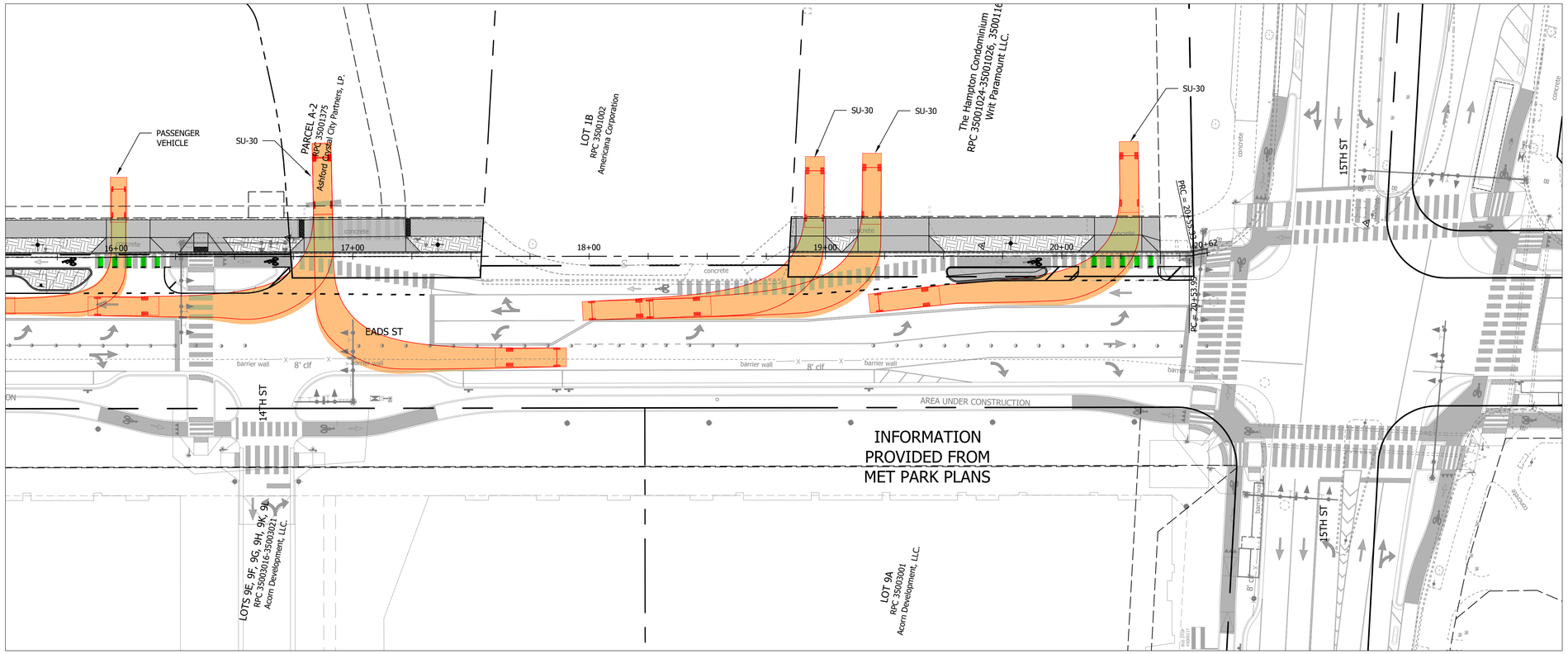

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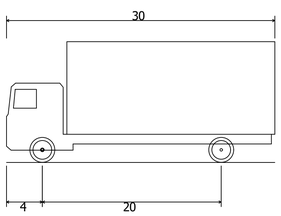

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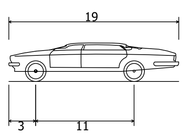

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DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:

0 25 50
GRAPHIC SCALE

C200.2

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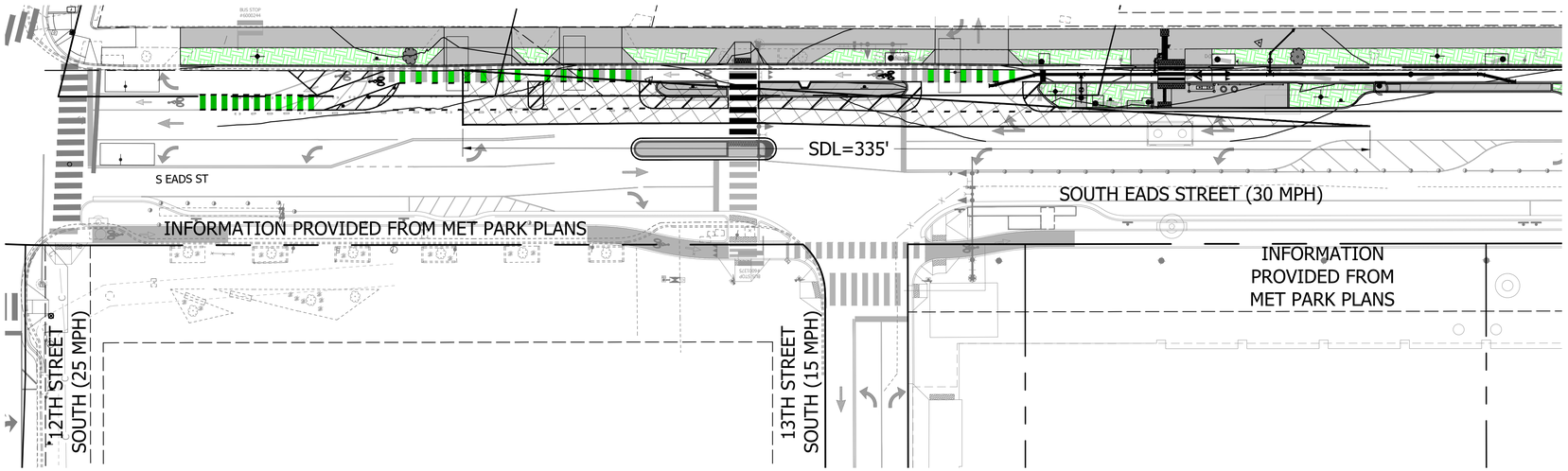

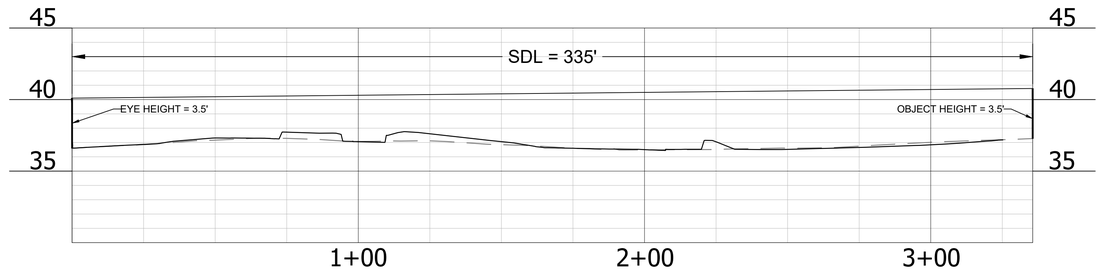

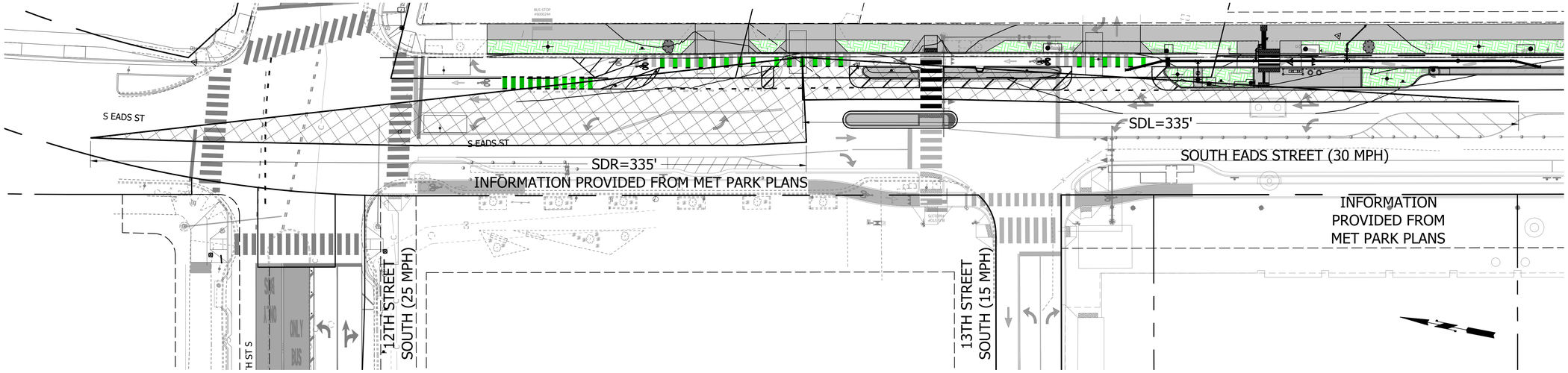

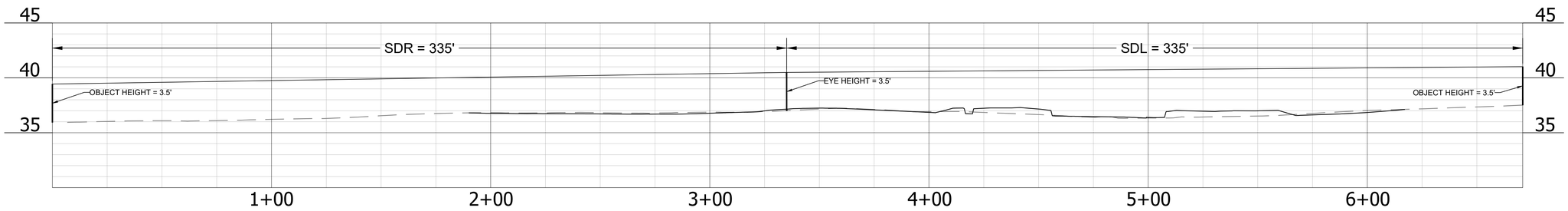

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CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

SIGHT DISTANCE PLAN AND PROFILE

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:
0 25 50
HORIZ. SCALE
0 5 10
VERT. SCALE

C201.1

FILENAME: CC23-236-SIGHT_DISTANCE.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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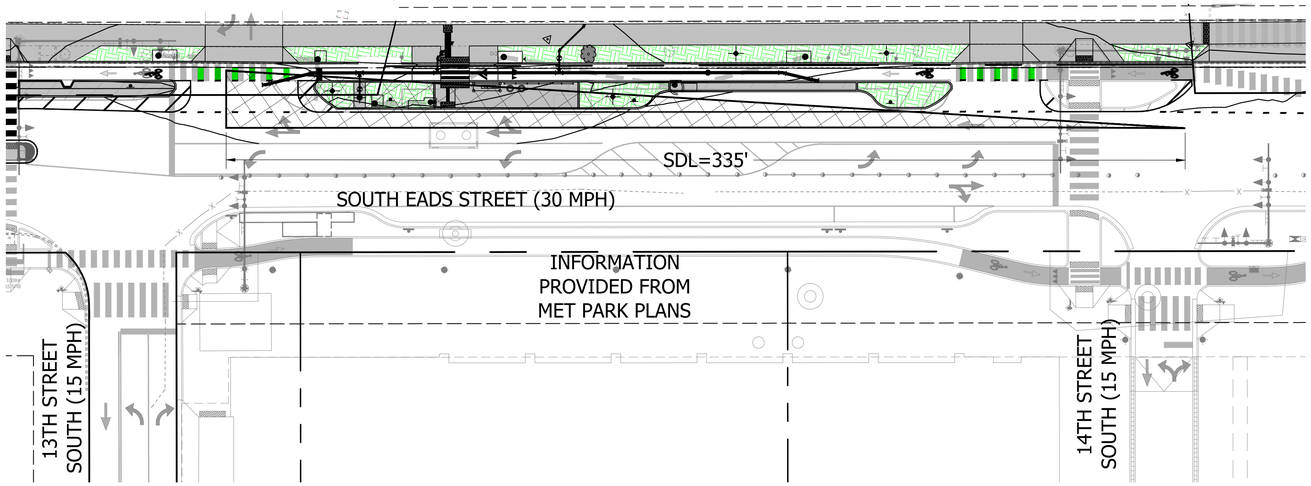

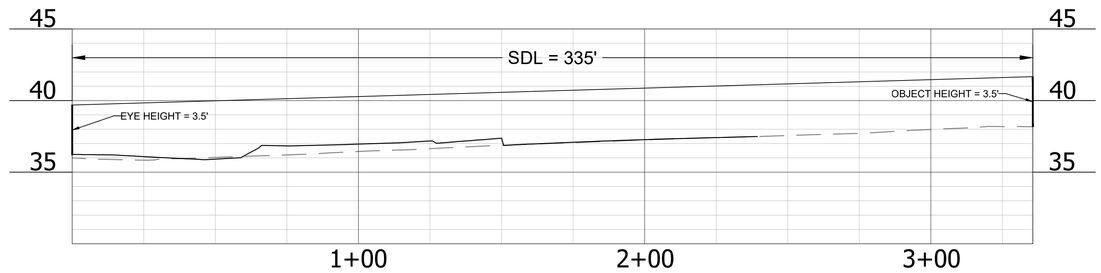

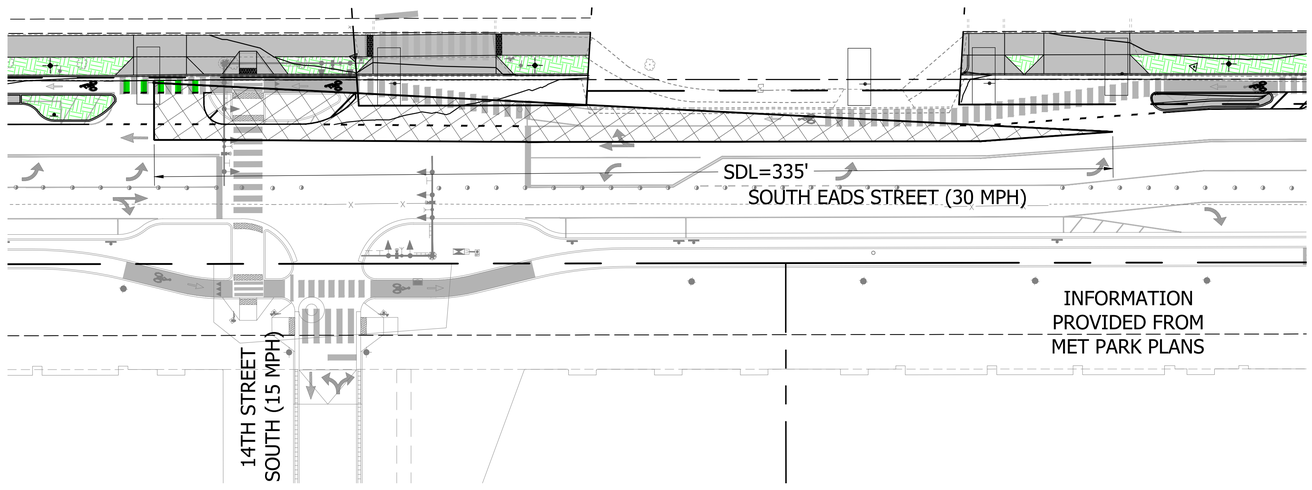

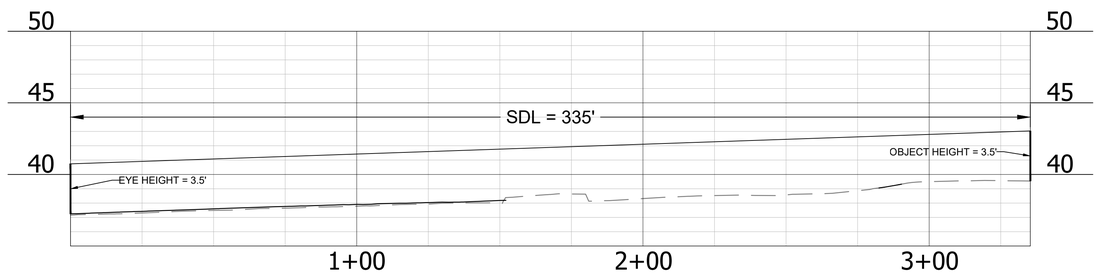

ARLINGTON
VIRGINIA

DEPARTMENT OF
ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
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SEAL

COMMONWEALTH OF VIRGINIA
TREVOR M. LANTZY
Lic. No. 0402050508
9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
	9/19/2023
DESIGN TEAM ENGINEER SUPERVISOR	
	9/19/2023
CONSTRUCTION MANAGEMENT SUPERVISOR	
	9/18/2023
WATER, SEWER, STREETS BUREAU CHIEF	
	9/18/2023
ENGINEERING BUREAU CHIEF	
Mark Dennis	9/15/2023
PROJECT MANAGER	

REVISIONS	DATE

S EADS STREET PHASE II
CC23
S EADS ST (12TH ST. S. TO 15TH ST. S.)

SIGHT DISTANCE PLAN AND PROFILE

DESIGNED: NS
DRAWN: TEC
CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:
0 25 50
HORIZ. SCALE
0 5 10
VERT. SCALE

C201.2

FILENAME: CC23-236-SIGHT_DISTANCE.DWG PATH: Q:\DATA\CC23\DESIGN\CAD_ACTIVE PLOTTED BY: MTYSHING

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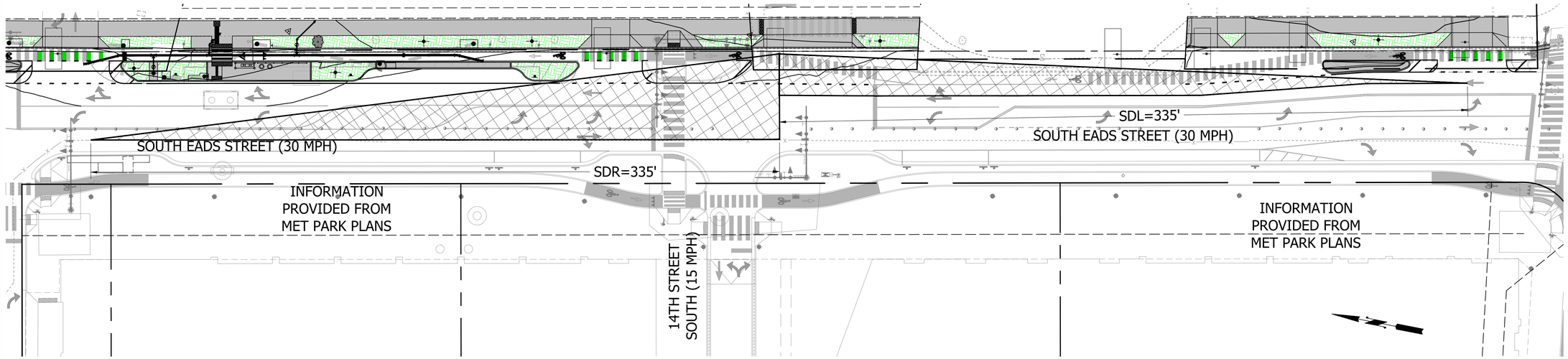

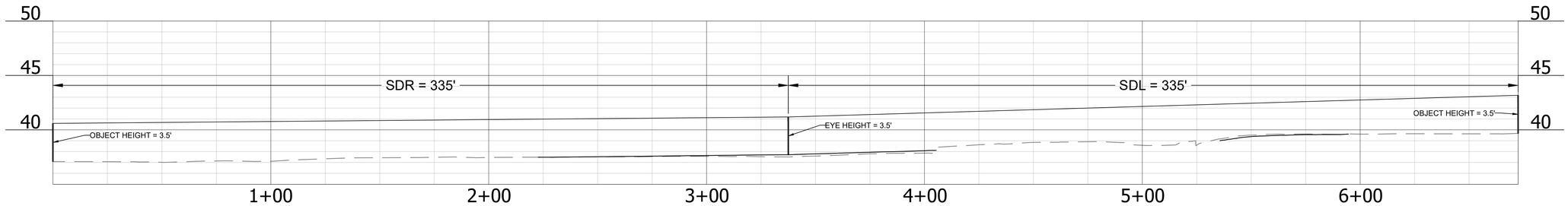

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REVISIONS	DATE

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CHECKED: TL

PLOTTED: SEPTEMBER 6 2023

SCALE:
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HORIZ. SCALE
0 5 10
VERT. SCALE

C201.3

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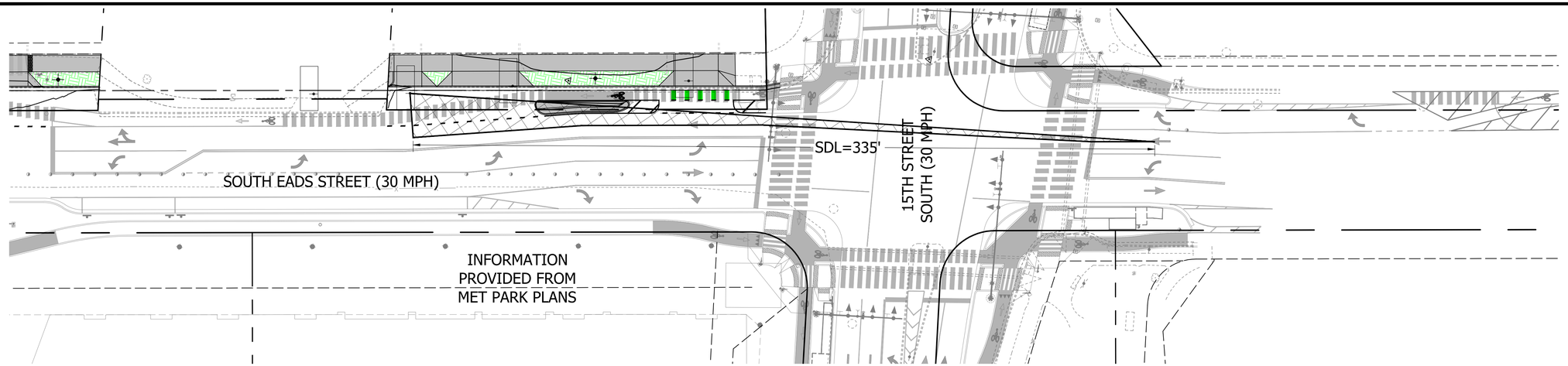

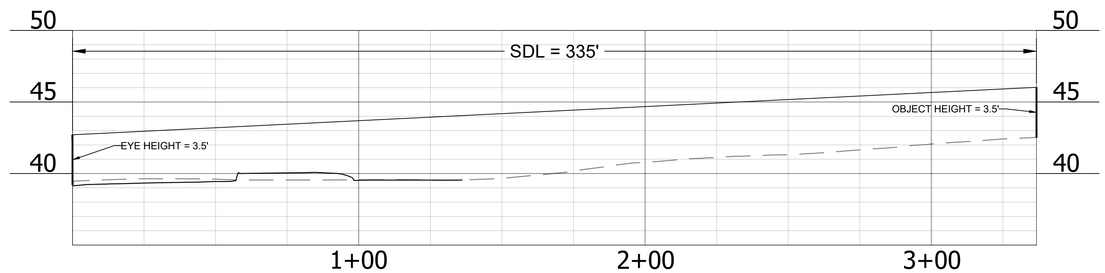

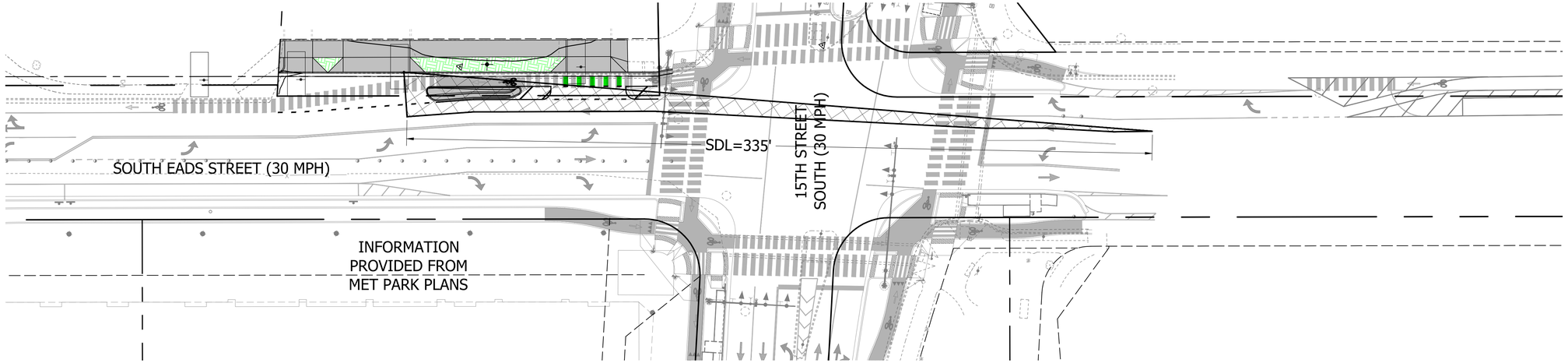

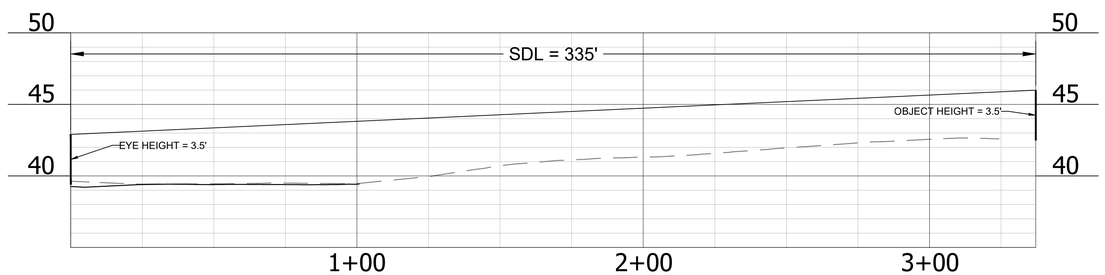

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Mark Dennis PROJECT MANAGER	9/15/2023

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CHECKED: TL

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HORIZ. SCALE
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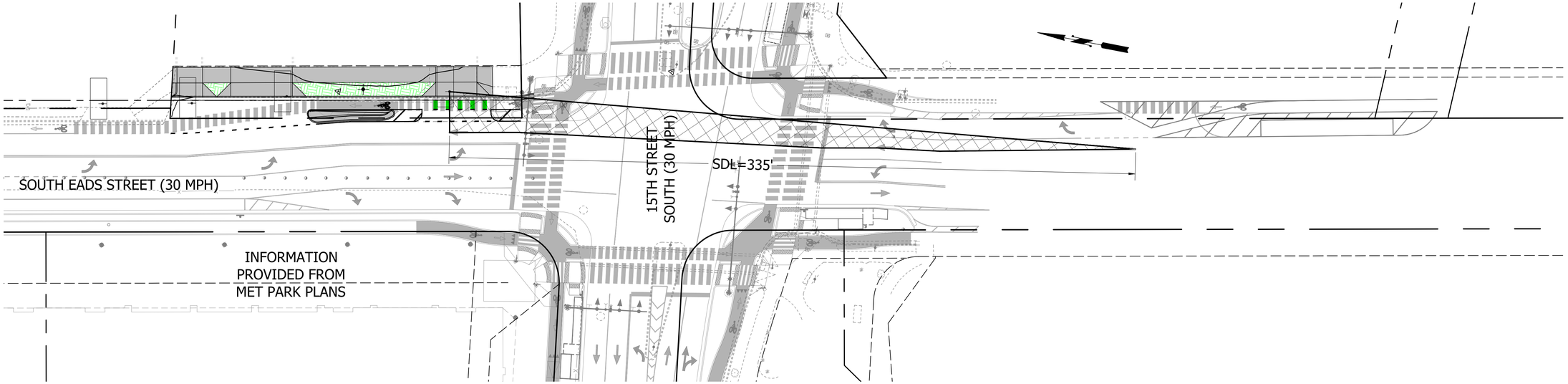

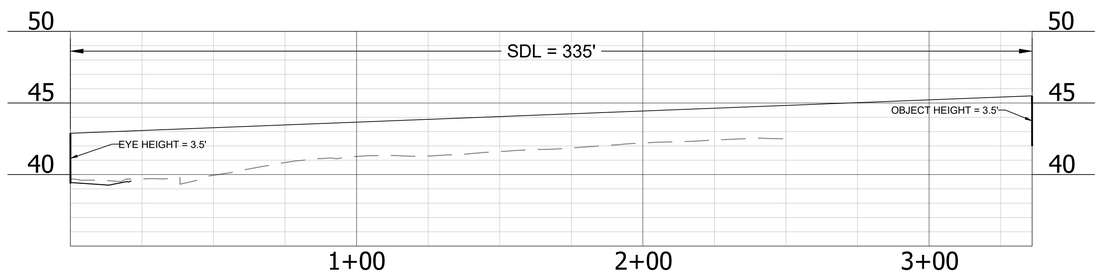

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9/6/2023
PROFESSIONAL ENGINEER

APPROVALS	DATE
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CONSTRUCTION MANAGEMENT SUPERVISOR	9/19/2023
WATER, SEWER, STREETS BUREAU CHIEF	9/18/2023
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Mark Dennis PROJECT MANAGER	9/15/2023

REVISIONS	DATE

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VERT. SCALE

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EXHIBIT C

COMMONWEALTH of VIRGINIA

DEPARTMENT OF LABOR AND INDUSTRY

Gary G. Pan
COMMISSIONER

Main Street Centre
600 East Main Street, Suite 207
Richmond, Virginia 23219
PHONE (804) 371-2327
FAX (804) 371-6524

Virginia Department of Labor and Industry Wage Determination Decision

Project Name	South Eads Street Phase II Improvements
County Project Code	24-DES-ITBPW-424
DOLI Project Number	ARLC-24-0002 UPDATE
County or Independent City	Arlington County
Publication Date	04/23/2024
Construction Type	Highway

Wage Determinations	Wage	Fringe
Carpenter, Includes Form Work	$20.97	
Cement Mason/Concrete Finisher	$20.70	$8.03
Electrician, Includes Traffic Signalization	$30.55	$11.51
Fence Erector	$15.28	
Ironworker, Reinforcing	$34.18	
Ironworker, Structural	$34.18	
Laborer: Asphalt, Includes Raker, Shoveler, Spreader and Distributor	$19.06	$1.75
Laborer: Common or General	$21.94	$8.32
Laborer: Grade Checker	$14.88	
Laborer: Pipelayer	$20.48	
Laborer: Power Tool Operator	$15.69	
Operator: Asphalt Spreader and Distributor	$20.58	$2.31
Operator: Backhoe/Excavator/Trackhoe	$23.93	

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Wage Determinations	Wage	Fringe
Operator: Bobcat/Skid Steer/Skid Loader	$19.00	$3.49
Operator: Broom/Sweeper	$17.40	$2.01
Operator: Bulldozer, Including Utility	$20.64	
Operator: Crane	$29.46	
Operator: Drill	$24.89	
Operator: Gradall	$19.26	
Operator: Grader/Blade	$23.21	
Operator: Hydroseeder	$16.64	
Operator: Loader	$18.92	
Operator: Mechanic	$22.84	
Operator: Milling Machine	$23.19	$2.94
Operator: Pavement Planer	$21.14	
Operator: Pavement Planer Groundsmen	$19.75	
Operator: Paver (Asphalt, Aggregate, and Concrete)	$20.33	$2.81
Operator: Piledriver	$21.83	$4.08
Operator: Roller	$18.92	
Operator: Roller (Finishing)	$18.73	$3.23
Operator: Screed	$22.13	$4.89
Pavement Marking Operator	$22.16	
Pavement Marking Truck Driver	$18.78	
Traffic Control: Flagger	$13.64	
Traffic Sign Mechanic	$23.00	
Truck Driver: 1/Single Axle Truck	$19.35	
Truck Driver: Fuel and Lubricant Service	$18.25	
Truck Driver: Heavy 7CY & Under	$15.53	
Truck Driver: Heavy Over 7CY	$18.05	
Truck Driver: Multi Axle	$20.34	$2.89

Additional Notes

All wage rates to be used on a contract will be set at the time the contract is awarded. While DOLI maintains a list of wage determinations online for reference purposes, only the wage determinations made in an official Wage Determination Decision, sent by DOLI to the contracting agency, can be used to ascertain the exact rates to be paid for a specific contract.

All rates are determined by DOLI and any appeals of specific classifications may be made through the Wage Determination Appeal form available at https://doli.virginia.gov/wp-content/uploads/2022/05/Appeal-for-Clarification-of-Wage-Determination.pdf

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Any additional classifications may be requested through the Additional Wage Classification form available at https://doli.virginia.gov/wp-content/uploads/2022/10/Request-for-Additional-Wage-Classification-10-2022.pdf

Understand your duties as a contractor under Virginia law by referencing our Contractor Responsibilities information sheet available at http://www.doli.virginia.gov/wp-content/uploads/2021/04/PREVAILING-WAGE-CONTRACTOR-RESPONSIBILITIES.pdf

Your employees have specific rights, which can be found on our List of Employee Rights information sheet available at http://www.doli.virginia.gov/wp-content/uploads/2021/04/PREVAILING-WAGE-EMPLOYEE-RIGHTS.pdf

Any further questions should be directed to PrevailingWage@doli.virginia.gov

EXHIBIT D

PREPARED BY: _____

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 ITEMS AT THE FOLLOWING STIPULATED PRICES: (ALL PRICES INCLUDE PROVISION AND INSTALLATION).

CHECKED BY: _____

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
C1	**#REF!**				
MASTER ITEM #	**DESCRIPTION**	**QTY**	**UNIT**	**UNIT PRICE**	**TOTAL**
01400-C1-00030	Test Pits (or Test Bores), Up to 6' Deep (with restoration)	3	EA	$350.00	$1,050.00
02200-C1-00130	Aggregate, VDOT #21-A (Compacted in Place per VDOT standards & Specs)	79	CY	$120.00	$9,480.00
				SUBTOTAL	**$10,530.00**

C2	**#REF!**				
MASTER ITEM #	**DESCRIPTION**	**QTY**	**UNIT**	**UNIT PRICE**	**TOTAL**
02750-C2-00020	Concrete Curb, Standard Header Curb C-3 (Arlington County Detail R-2.0), includes curb for aprons, ramps, etc.	240	LF	$85.00	$20,400.00
02750-C2-00060	Concrete Curb & Gutter, Standard C-2 and C-2R (Arlington County Detail R-2.0), includes curb & gutter for aprons, ramps, etc.	970	LF	$85.00	$82,450.00
02750-C2-00085	Concrete Curb, C-5 Alternate Curb for Medians (Arlington County Detail R-2.0)	130	LF	$115.00	$14,950.00
02611-C2-00110	Concrete Sidewalk, 4" Thickness (Arlington County Detail R-2.0)	621	SY	$105.00	$65,205.00
02611-C2-00190	CG-12 Detectable Warning Surface - Truncated Domes	3	SY	$420.00	$1,260.00
02611-C2-00180	Concrete Driveway Entrance, 9" Thick Commercial (Arlington County Details R-2.4A, R-2.4B, R-2.4C, R-2.4D)	337	SY	$175.00	$58,975.00
02750-C2-SP110	Concrete Curb. 9.5" Header Curb (Modified C-4 Curb & Gutter, Arlington County Detail R-2.0), Includes curb for aprons, ramps,etc.	100	LF	$95.00	$9,500.00
02611-C2-SP010	Median Strip Surface - Concrete (per Arlington County Detail R-1.4)	30	SY	$150.00	$4,500.00
02611-C2-SP020	Median Strip Suface - Landscape (per Arlington County Detail R-1.4)	90	SY	$150.00	$13,500.00
02611-C2-SP030	Mountable Concrete Median per Detail on plans (Modifed Mountable Curb Detail at Traffic Circle, Arlington County Detail R-2.7)	80	SY	$200.00	$16,000.00
02611-C2-SP100	Embedded Detectible Warning Surface - Truncated Domes (Color per Plans)	7	SY	$420.00	$2,940.00

CONSTRUCTION COST ESTIMATE DETAIL

PREPARED BY: _____

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CHECKED BY: _____

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
02611-C2-SP110	Embedded Longitudinal Directional Indicators - 24" (Color per Plans)	9	LF	$130.00	$1,170.00
02611-C2-SP120	Embedded Longitudinal Directional Indicators - 12" (Color per Plans)	5	LF	$110.00	$550.00
				SUBTOTAL	**$291,400.00**

C3 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
02600-C3-00010	Asphalt Concrete, Planing or Milling (1/2" to 3" Depth)	1280	SY	$13.50	$17,280.00
02600-C3-00030	Asphalt Concrete, Base Course (VDOT BM-25.0A)	171	TON	$190.00	$32,490.00
02600-C3-00060	Asphalt Concrete, Surface Course (VDOT SM-9.5A)	210	TON	$110.00	$23,100.00
				SUBTOTAL	**$72,870.00**

C4 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
02500-C4-00820	15" Pipe, RCP Class IV, In Place Up to 6' Deep	71	LF	$170.00	$12,070.00
02500-C4-00830	15" Pipe, RCP Class IV, In Place 6' to 10' Deep	47	LF	$250.00	$11,750.00
02500-C4-00840	15" Pipe, RCP Class IV, In Place 10' Deep	112	LF	$300.00	$33,600.00
02505-C4-00010	Storm Manhole MH-1 (Arlington County Detail D-3.0), In Place, DEPTH 8'	1	EA	$7,000.00	$7,000.00
02505-C4-00100	CB-2A or CB-2B (throat lengths from 8'-6" up to 16'-0"), In Place Up to 6' Deep, Arlington County Standards.	3	EA	$10,000.00	$30,000.00
02505-C4-00250	Curb Drop Inlet, Standard VDOT DI-3B (12" to 30" Pipe), In Place Up to 8' Deep, Inlet Throat Length 4' to 20'	2	EA	$10,000.00	$20,000.00
02500-C4-00460	Storm Manhole Frame and Cover, Remove & Replace	1	EA	$1,200.00	$1,200.00
02500-C4-00011	Storm Manhole MH-1 (Arlington County Detail D-3.0), In Place, PER ADDITIONAL VF OVER 8'	8	VF	$250.00	$2,000.00
02505-C4-00110	CB-2A or CB-2B (throat lengths from 8'-6" up to 16'-0"), Each VF Over 6' Deep, Arlington County Standards.	9	VF	$500.00	$4,500.00

CONSTRUCTION COST ESTIMATE DETAIL

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CHECKED BY: _____

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
02505-C4-00260	Curb Drop Inlet, Standard VDOT DI-3BB (12" to 30" Pipe), Each VF Over 8' Deep, Inlet Throat Length 4' to 20'	15	VF	$750.00	$11,250.00
				SUBTOTAL	**$133,370.00**

C5 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	**$0.00**

C6 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
02550-C6-00140	12-Inch Gate Valve & Valve Box	1	EA	$5,135.00	$5,135.00
02550-C6-00150	8-Inch Gate Valve & Valve Box	2	EA	$2,700.00	$5,400.00
02550-C6-00190	Connect To Existing 12-Inch Water Main	2	EA	$9,500.00	$19,000.00
02550-C6-00200	Connect To Existing 8-Inch Water Main	2	EA	$9,000.00	$18,000.00
02550-C6-00250	Remove Existing Fire Hydrant	1	EA	$1,450.00	$1,450.00
02550-C6-00270	Install New Fire Hydrant (includes Fire Hydrant, Gate Valve with Valve Box and up to 20 LF 6-inch DIP CL-52)	1	EA	$12,000.00	$12,000.00
02550-C6-00300	Cut & Cap 12-Inch Water Main	2	EA	$2,700.00	$5,400.00
02550-C6-00350	Remove Existing Valve Boxes	3	EA	$1,000.00	$3,000.00
02550-C6-00030	12-Inch Water Main, DIP CL-52, Upto 6' Deep	60	LF	$300.00	$18,000.00
02550-C6-00040	12-Inch Water Main, DIP CL-52, > 6' Deep	148	LF	$300.00	$44,400.00
02550-C6-00060	8-Inch Water Main, DIP CL-52, > 6' Deep	30	LF	$230.00	$6,900.00
				SUBTOTAL	**$138,685.00**

C7 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	**$0.00**

C8 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	**$0.00**

C9 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
14040-C9-00170	Furnish and Install Junction Box and Lid SMALL (Detail 14040-01)	3	EA	$3,500.00	$10,500.00
14040-C9-00220	Enter Existing Junction Box	1	EA	$2,355.00	$2,355.00
14050-C9-00260	Furnish & Install full set of conductors as required by plan per linear foot of conduit	1220	LF	$31.00	$37,820.00

CONSTRUCTION COST ESTIMATE DETAIL

PREPARED BY: _____

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CHECKED BY: _____

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
14060-C9-00290	Install Streetlight Pole Foundation Type F-1 (Detail 14060-01)	7	EA	$4,120.00	$28,840.00
14112-C9-00910	Decorative Post-Top Aluminum Streetlight Pole with Single Post-Top Luminaire per Arlington Lighting Standard 14112-01	7	EA	$13,730.00	$96,110.00
14030-C9-SP033	Furnish and Install 2 inch SCH 40 PVC or SCH 80 HDPE/SDR11 Conduit either by Trenching or Directional Bore (Detail 14030-01)	1220	LF	$46.00	$56,120.00
				SUBTOTAL	**$231,745.00**

C10 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
02900-C10-00010	Four (4) Inch Transverse Markings	680	LF	$2.35	$1,598.00
02900-C10-00020	Six (6) Inch Transverse Markings	205	LF	$4.00	$820.00
02900-C10-00050	Twenty Four (24) Inch Transverse Markings, Note: Used For Continental (Ladder) Crosswalk	60	LF	$13.90	$834.00
02900-C10-00160	Six (6) Inch Longitudinal Skip Line (Two (2) Foot Line/ Four (4) Foot Spacing), Note: Six (6) LF Consists of Two (2) LF of Marking and Four (4) LF of Space	691	LF	$3.00	$2,073.00
02900-C10-00280	Speed Hump Markings (MUTCD Fig. 3B-29 Option A, or Fig. 3B-30 Option B), Two (2) Each Per Hump, **Each Hump Will Have 2 - 1 In Each Direction**	1	EA	$650.00	$650.00
02900-C10-00290	Standard Bicycle Symbols (MUTCD, Chapter 9C, Figure 9C-3), "Bike Symbol", "Helmeted Bicyclist Symbol"	5	EA	$448.00	$2,240.00
02900-C10-00350	Colorized Bike Lane Coatings (per Specification 02900)	45	SY	$170.00	$7,650.00
02619-C10-00410	Traffic Control Sign (Typical Stop, Yield, No Parking, Speed Limit, or Similar)	9	EA	$750.00	$6,750.00
02840-C10-SP100	Vehicle Delineators	2	EA	$250.00	$500.00
				SUBTOTAL	**$23,115.00**

C11 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL

CONSTRUCTION COST ESTIMATE DETAIL

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MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
02800-C11-00020	Topsoil for Street Trees, Backfill Soil Mixture of 3/4 Existing Soil and 1/4 Organic Material (per Arlington County DPR Specification)	336	CY	$50.00	$16,800.00
02801-C11-00060	Sod, Tall Fescue/Bluegrass Mixture	336	SY	$15.00	$5,040.00
02800-C11-00603	Trees, Deciduous - 2.0 to 2.5" caliper	1	EA	$750.00	$750.00
05500-C11-00150	Handrail - Ornamental (Arlington County Detail R-3.2)	25	LF	$350.00	$8,750.00
				SUBTOTAL	**$31,340.00**

C12 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
10530-C12-00010	Bus Shelter Pad (Detail R-2.10)	50	SY	$400.00	$20,000.00
10530-C12-00185	Solar-powered LED Light Panel Kit	1	EA	$4,500.00	$4,500.00
10530-C12-SP025	Furnish and Install Bus Shelter Unit, 4' x 10' Traditional Cantilever Shelter	1	EA	$22,450.00	$22,450.00
10530-C12-SP105	Furnish and Install 6' Free-standing Bench	1	EA	$1,250.00	$1,250.00
10530-C12-SP135	Furnish and Install Bus Shelter Litter Receptacle	1	EA	$2,700.00	$2,700.00
10530-C12-SP136	Furnish and Install Bus Shelter Recycling Receptacle	1	EA	$2,700.00	$2,700.00
				SUBTOTAL	**$53,600.00**

C13 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	**$0.00**

C15 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	**$0.00**

C16 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	**$0.00**

C17 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	**$0.00**

C18 **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
				SUBTOTAL	**$0.00**

CONSTRUCTION COST ESTIMATE DETAIL

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CHECKED BY: _____

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL

CONTRACT TOTAL (EXCLUDING PERCENTAGE ITEMS)	**$986,655.00**

PCT **#REF!**

MASTER ITEM #	DESCRIPTION	QTY	UNIT	UNITPRICE	TOTAL
01500-C13-10000	Temporary Erosion and Sediment Controls	N/A	%	2.03%	**$20,029.10**
01000-C16-00010	Maintenance of Traffic (MOT)	NA	%	4.06%	**$40,058.19**
01000-C16-00030	Mobilization and De-Mobilization	NA	%	8.08%	**$79,711.86**
01500-SA-00200	SWPPP Administration	NA	%	0.75%	**$7,399.91**
				PERCENTAGE LINE ITEMS SUBTOTAL	**$147,199.06**

PROJECT TOTAL :	**$1,133,854.06**

BIDDER_____ Signature_____

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EXHIBIT E

CONTRACTOR PERFORMANCE EVALUATION FORM

ARLINGTON COUNTY GOVERNMENT

Contractor Performance Evaluation Form

Contractor Name:_____ Contract No.: _____

Date:_____ Project/Contract Name: _____

Interim Evaluation____ Final Evaluation _____

Scope of Work/Services Provided:

_____

_____

_____

_____

_____

Contract Start Date: _____/_____/____ Contract End Date: ___/____/____ Actual Completion Date: ___/___/_____

Please rate the effectiveness of the Contractor's performance on the Contract/Project across the following dimensions:

Evaluation Criteria: Unacceptable Poor Satisfactory Excellent

Written comments to explain assigned ratings are required for any performance ratings below "satisfactory" or an "excellent" in any category.

Evaluation Questions

1. Quality of Workmanship

Rate the quality of the Contractor's workmanship. Were there quality-related or workmanship problems on the Contract? Was the Contractor responsive to remedial work required?

____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

2. Problem Solving and Decision Making

Rate the Contractor's ability to provide effective and creative problem solving, coordination and fair decision making on Contract/Project.

____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

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3. Project Schedule

   Rate the Contractor's performance with regard to adhering to contract schedules. Did the Contractor meet the contract schedule, or the schedule as revised by approved change orders? If not was the delay attributable to the Contractor?

   ____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

4. Subcontractor Management

   Rate the Contractor's ability, effort and success in managing and coordinating subcontractors (if no subcontractors rate the Contractor's overall project management). Was the Contractor able to effectively resolve problems?

   ____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

5. Safety

   Rate the Contractor's safety procedures on this Contract/Project? Were there any OHSA violations or serious safety accidents?

   ____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

6. Environmental Compliance

   Did the Contractor comply with local, state, and federal environmental standards in the performance of the Contract? Did the Contractor comply in good faith with local erosion and sedimentation control requirements and/or any Stormwater Pollution Prevention Plan?

   ____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

7. Change Orders

   Did the Contractor unreasonably claim change orders or extras? Were the Contractor's prices on change orders and extra work reasonable?

   ____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

8. Paperwork Processing

   Rate this Contractor's performance in completing and submitting required project paperwork (i.e. change orders, submittal, drawings, invoices, workforce reports, etc.) Did the Contractor submit the required paperwork promptly and in proper form?

   ____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

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9. Supervisory Personnel

   Rate the general performance of this Contractor's supervisory personnel. Did they have the knowledge, management skills and experience to run a project of this size and scope?

   ____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

10. Expertise, Knowledge and Experience

    Rate this Contractor's personnel. Were they dedicated, experienced and qualified for the duration of project.

    ____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

11. Project/Contract Closeout

    Rate the Contractor's performance on timeliness and quality of closeout deliverables such as As-Built Drawings, Operation and Maintenance Manuals, and training. Did the Contractor complete the tasks or Project on schedule; was the punch list completed within the allotted time?

    ____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

12. Level of Overall Performance

    ____ Unacceptable ____ Poor ____ Satisfactory ____ Excellent ____ N/A

Based on these comments, would you recommend this Contractor for comparable work in the future?

☐ Yes ☐ No

Please provide any comments regarding the Contractor's performance or the quality of its work. The Contractor can also provide any comments or clarification on the evaluation in the box below.

(Project Officer or Contractor, use additional sheets, if Necessary):

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Signatures and Certifications:

1. The information contained in this evaluation form represents, to the best of my knowledge, a true and accurate analysis of the Contractor's performance record on this Contract; and,
2. The contents on the evaluation form and the ratings were not negotiated with the Contractor or its representative for any reason.

Evaluator's Signature:_____ Date: _____

Evaluator's (PjO) Printed Name_____ Evaluator's Title: _____

Contractor's signature below acknowledges receipt and the opportunity to respond:

Contractor Signature:_____ Date: _____

Contractor Printed Name:_____ Title: _____

EVALUATION RATINGS DEFINITIONS

Rating	Definition	Notes
Excellent	Performance meets contractual requirements and exceeds many to the County's benefit. The contractual performance of the element or sub-element being evaluated was accomplished with few minor problems for which corrective actions taken by the contractor were highly effective.	To justify an Exceptional rating, identify multiple significant events and state how they were of benefit to the County. A singular benefit, however, could be of such magnitude that it alone constitutes an Exceptional rating. Also, there should have been NO significant weaknesses identified.
Satisfactory	Performance meets contractual requirements. The contractual performance of the element or sub-element contains some minor problems for which corrective actions taken by the contractor appear or were satisfactory.	To justify a Satisfactory rating, there should have been only minor problems, or major problems the contractor recovered from without impact to the contract/order. There should have been NO significant weaknesses identified. A fundamental principle of assigning ratings is that contractors will not be evaluated with a rating lower than Satisfactory solely for not performing beyond the requirements of the contract/order.
Poor	Performance does not meet some contractual requirements. The contractual performance of the element or sub-element being evaluated reflects a serious problem for which the contractor has not yet identified corrective actions. The contractor's proposed actions appear only marginally effective or were not fully implemented.	To justify poor performance, identify a significant event in each category that the contractor had trouble overcoming and state how it impacted the County. A poor rating should be supported by referencing the management tool that notified the contractor of the contractual deficiency (e.g., management, quality, safety, or environmental deficiency report or letter).

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Unacceptable	Performance does not meet most contractual requirements and recovery is not likely in a timely manner. The contractual performance of the element or sub-element contains a serious problem(s) for which the contractor's corrective actions appear or were ineffective.	To justify an Unsatisfactory rating, identify multiple significant events in each category that the contractor had trouble overcoming and state how it impacted the County. A singular problem, however, could be of such serious magnitude that it alone constitutes an unsatisfactory rating. An Unsatisfactory rating should be supported by referencing the management tools used to notify the contractor of the contractual deficiencies (e.g., management, quality, safety, or environmental deficiency reports, or letters).
Not Applicable (N/A)	N/A (not applicable) should be used if the ratings are not going to be applied to a particular area for evaluation.	

END