

**ARLINGTON COUNTY DES ENGINEERING**  
**SPECIAL CONDITIONS**

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## **PROJECT SUMMARY**

The Contractor shall provide all resources to successfully perform the terms of this contract in accordance with project plans, and in compliance with Arlington County and VDOT Standards and Specifications. The Contractor shall perform the work complete, in place, tested, and ready for continuous service.

All work within the VDOT Right-Of-Way shall be performed in accordance with the VDOT Standards and Specifications, unless otherwise noted. All work within the County Right-Of-Way shall be in accordance with the Arlington County Standards and Specifications, unless otherwise noted.

The work performed under this contract will consist primarily of Capital Improvement Projects which involve improvements to existing infrastructure in Arlington County and VDOT Right-Of-Way. Projects will vary in size and shall not exceed \$750,000 per task order and the total expenditures for this contract are expected to be approximately \$3,000,000 annually.

## **SUPPLEMENTS TO THE GENERAL CONDITIONS**

These Conditions modify the Arlington County Construction General Conditions. All provisions that are not modified or deleted by these Supplemental Conditions shall remain in full force and effect.

The address system used in these Supplemental Conditions is the same as the address system used in the General Conditions, with the prefix "SC" added thereto.

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### **ARTICLE B – DRAWINGS, SPECIFICATIONS AND RELATED DATA**

#### **SC-B.10 TESTS**

*Add the following new language to Paragraph B.10:*

All materials testing shall be in compliance with the Arlington County Materials Testing Specification Reference. This document specifies the method and frequency of testing for Arlington County projects. A copy of this document is included in the bid documents. This shall be incidental to the work and no separate payment will be made.

The Contractor shall engage the services of a geotechnical company, acceptable to both the County and VDOT, to conduct all materials testing per the County and VDOT Specifications.

If it is observed that samples for testing are being improperly taken or that samples are being taken from an area that is not fully representative of all project conditions, then Contractor shall take and test additional samples at the County Project Officer's request from areas designated by the County Project Officer and at the Contractor's expense.

In addition, the Contractor shall provide the County with unfettered site access as needed for VDOT/County personnel or VDOT/County consultants to enter the site, inspect, and perform any additional testing for any and all materials (including soil, concrete, asphalt, etc.).

Compaction results must meet VDOT Specifications and be certified by a Geotechnical Engineer licensed in Virginia. This work shall be at no cost to the County.

## ARTICLE C – COUNTY, COUNTY PROJECT OFFICER, AND CONTRACTOR RELATIONS

### SC-C.1 STATUS OF COUNTY PROJECT OFFICER OR DESIGNEE

*Add the following new language to Paragraph C.1:*

The County Project Officer will coordinate and consult with the VDOT Field Inspector as appropriate when working within the VDOT Right-Of-Way.

### SC-C.4 INSPECTION OF WORK

*Add the following new language to Paragraph C.4:*

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. The Contractor shall allow 3 working days for the inspection and approval of the premarkings prior to placing the permanent markings.

### SC-C.9 CONTRACTOR MANAGEMENT PERSONNEL

*Add the following new language to Paragraph C.9:*

For on-call contracts include “for each task order”

#### Site Supervisor:

The Contractor shall have a qualified and experienced site supervisor who can clearly communicate technical matters on-site at all times when construction activity is occurring or when the site is not in a secure state.

#### Safety Project Officer:

The Contractor shall have at least one (1) employee certified by VDOT in Basic Work Zone Traffic Control on-site at all times that work is occurring and be responsible for the following:

- Placement, maintenance, and removal of work zone traffic control devices,
- Compliance with permit requirements and conditions, approved plans and specifications, the Virginia Work Area Protection Manual, and the Manual of Uniform Traffic Control Devices.

The flagger shall be certified in accordance with the VDOT Flagger Certification Program, the American Traffic Safety Services Association Flagger Certification Program or any other VDOT approved flagger program. The flagger shall have his/her certification card with them at all times while performing flagging activities.

The Contractor shall have at least one (1) employee certified in OSHA 10 on-site at all times that work is occurring. The employee shall have served as a Project Safety Officer on at least three (3) prior projects. If the contractor has multiple employees with these requirements, the Contractor shall clearly identify which employee shall serve as the Project Safety Officer.

Environmental Project Officer:

For each task order, the Contractor shall have at least one (1) employee that has successfully completed the VDOT Erosion & Sediment Control Contractor Certification training. The contractor employee shall be on-site during all land disturbance activities. The Contractor shall be responsible for ensuring compliance with all applicable local, State, and Federal erosion and sediment control regulations and permits during land disturbance activities.

If the Contractor proposes to deviate from the approved Erosion and Sediment Control Plan, it shall be the Contractor's responsibility to coordinate and obtain approval from the County Project Officer prior to implementing any changes.

SC-C.13 PROTECTION OF WORK AND PROPERTY

*Add the following new language to Subparagraph C.13.c:*

The Contractor shall be responsible for all damages caused by their construction activities. The Contractor shall perform or provide repairs, replacements, and restoration to all property that has been damaged resulting from construction operations performed by the Contractor, and shall meet the following requirements:

1. Restore all areas to conditions that existed prior to construction. Remove and Replace damaged items with items equal to or better than the damaged items.

ARTICLE E – LEGAL RESPONSIBILITY AND PUBLIC SAFETY

SC-E.1 SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK

*Add the following new language at the end of E.1:*

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 the Project Officer. This shall be incidental to the work and no separate payment shall be made.

SC-E.2 PUBLIC CONVENIENCE

*Add the following new language to Paragraph E.2:*

The Contractor shall set up controls at the beginning of each work day and take down controls at the end of each work day for the duration of the project. At all times the Contractor shall maintain safe two-way vehicular traffic, and safe accessible pedestrian traffic in conformance with County and VDOT standards.

At all times the Contractor shall use the personnel and traffic control signs and devices necessary to comply with the Virginia Work Area Protection Manual and Part VI of the "National Manual on Uniform Traffic Control Devices." The Contractor has sole responsibility for ensuring that its operations are conducted in a safe manner and notwithstanding any other provision to the contrary, shall fully indemnify Arlington County, its officers, agents and employees for any damage or injury related to traffic operations which is caused by negligent or otherwise improper or deficient performance under the Contract or nonperformance of the terms of the Contract. All personnel, signs, barricades and any other items necessary for the maintenance of traffic and safety shall be provided by the Contractor.

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.

When the project includes a VDOT and/or County approved MOT Plan (or Plans), the Contractor shall strictly abide by this plan. If the Contractor proposes to deviate from the approved MOT Plan for a County road, it shall be the Contractor's responsibility to coordinate and obtain approval from the County Project Officer prior to implementing any changes. If the Contractor proposes to deviate from the approved MOT Plan for a VDOT road, it shall be the Contractor's responsibility to coordinate and obtain approval directly from VDOT prior to implementing any changes.

Prior to any lane closures within the VDOT Right-of-Way, the County Project Officer and VDOT Field Inspector must be notified in advance of such lane closure in accordance with VDOT requirements.

The Contractor shall not be entitled to any additional payment for changes to MOT which are the result of the Contractor's work schedule or resource allocation, weather delays, or other factors not controlled by the County.

Failure of the Contractor to correct any MOT deficiency immediately upon notification may result in the project being shut down until the deficiency is corrected, and a reduction from the amount of payment due in the amount of \$1,000.00 per violation. Repeated violations of this provision may result in contract termination.

The Contractor shall install project information signs (size - 36"x48") at least two (2) different locations for each site. Signs will be supplied by the County. Sign posts and incidentals necessary for a complete installation of the signs shall be furnished by the Contractor. Signs shall be installed at least two (2) weeks prior to the start of the construction. The Contractor shall coordinate the location of the signs with the Project Officer. After the project has been completed the Contractor shall remove and return the signs to the County Project Officer. The cost for this work shall be considered incidental to other items within the Contract and no separate payment will be made.

At the close of each work day, the area of work shall be confined to the smallest area possible, but in no event larger than the area designated in the Construction Documents, so

that the maximum use of the street and sidewalk shall be restored and the hazard to traffic reduced to the minimum.

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 will require at least four weeks advance notice for coordination with the county's bus stop coordinator.

SC-E.10 SITE CLEAN-UP AND WASTE DISPOSAL

*Add the following new language to Paragraph E.10:*

The County's Earth Products Recycling Yard (located at 4300 29<sup>th</sup> Street South, Arlington, VA) shall **not** be used on an as-needed basis for unspecified quantities of waste (due in part to the limited size of the Yard). Although atypical, the Yard **may** be considered, on a case-by-case basis, for disposal of specific types/quantities of waste from County construction projects. In such cases disposal arrangements must be approved by the County Project Officer, be made in advance, depend on available space and the type/quantity of waste, and comply with certain requirements (for example, concrete shall be broken into pieces no longer than 24" in any dimension, contain less than 20% soil content, and be free of rebar).

SC-E.11 STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

*Delete Paragraph 2.*

## ARTICLE F— PROGRESS AND COMPLETION OF THE WORK

### SC-F.2 TIME FOR COMPLETION

*Delete Paragraph F.2 and replace with the following language:*

It is hereby understood and mutually agreed by and between the Contractor and the County that the Commencement Date, the rate of progress, and the Time for Completion of the Work to be done hereunder are essential conditions of the Contract. The Contractor agrees that the Work shall be started promptly upon receipt of a written Notice to Proceed in accordance with the accepted schedule. Additional time shall not be allowed for holidays or weather delays except as allowed in the contract.

The Works shall be prosecuted regularly, diligently, and uninterruptedly at a production rate of \$25,000 of installed value per week on projects where “normal daytime working hours” govern. For projects where “restricted work hours” in County and VDOT ROW govern, the Works shall be prosecuted regularly, diligently, and uninterruptedly at a production rate of \$17,000 of installed value per week.



## ARTICLE G– MEASUREMENT AND PAYMENT

### SC-G.1 PAYMENTS TO CONTRACTOR

*Add the following new language to Section G.1:*

Payments will be based on actual quantities and site measurements of the approved work taken in the field by the County Project Officer using the Contract Unit Prices. Any Work that is not shown on the approved plans that has not been previously authorized in writing by the Project Officer shall be at the Contractor's expense, and at no cost to the County.

No additional payment for any incidentals will be made unless specifically requested through, and authorized by, the County Project Officer prior to the work. Such determination of additional payment will be at the sole discretion of the County Project Officer, and will be based upon the determination that there exist exceptional conditions which will necessitate significant expenditures of material and/or labor above and beyond the typical installation conditions which could be anticipated in Arlington County.

## **SPECIAL CONDITIONS**

These Special Conditions include any project-specific requirements in addition to the General Condition, Supplementary Specifications, and the County Standards Referenced herein.

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### 1. **CONSTRUCTION STANDARDS**

All work shall conform to project plans and specifications along with the current edition of following County and VDOT construction standards and specifications:

- **The Arlington County Department of Environmental Services (DES) Bike Parking Standards**, a copy of which may be downloaded at no charge from the internet at: <https://info.arlingtontransportationpartners.com/arlington-county-bike-parking-standards>
- **The Arlington County Department of Environmental Services (DES) Construction Standards and Specifications**, a copy of which may be downloaded at no charge from the internet at: <http://topics.arlingtonva.us/building/construction-standards-specifications/>
- **The Arlington County Department of Environmental Services (DES) Traffic Signal Specifications**, a copy of which may be downloaded at no charge from the internet at: <https://transportation.arlingtonva.us/traffic-signal-specification-updates/>
- **The Arlington County Department of Environmental Services (DES) Streetlight Specifications**, a copy of which may be downloaded at no charge from the internet at: <https://transportation.arlingtonva.us/streets/street-lights/lighting-standards-specifications-updates/>
- **The Arlington County Department of Environmental Services (DES) Pavement Marking Specifications**, a copy of which may be downloaded at no charge from the internet at: <http://transportation.arlingtonva.us/streets/traffic-signals/>
- **The Arlington County Department of Parks and Recreation (DPR) Specifications**, a copy of which may be downloaded at no charge from the internet at: <https://www.arlingtonva.us/Government/Departments/Parks-Recreation/About/Design-Standards>
- **The Virginia Department of Transportation (VDOT) Road and Bridge Standards and Specifications**, a copy of which may be downloaded at no charge from the internet at: <http://www.virginiadot.org/business/const/spec-default.asp>
- **The Virginia Work Area Protection Manual (WAPM)**, a copy of which may be downloaded at no charge from the internet at: <https://www.virginiadot.org/business/trafficeng-WZS.asp>
- **Manual on Uniform Traffic Control Devices(MUTCD)**, a copy of which may be downloaded at no charge from the internet at: [MUTCD 11th Edition - FHWA MUTCD \(dot.gov\)](http://www.fhwa.gov/mutcd/)
- **The Arlington County Department of Environmental Services (DES) Dechlorination and Disposal Procedures**, a copy of which may be downloaded at no charge from the internet at: <https://www.arlingtonva.us/Government/Programs/Water-Utilities/Discharging-Chlorinated-Water>
- **The Supplementary Specifications listed within the Contract.**

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In case of a discrepancy, the following order of priority will apply, with the highest governing item appearing first and the least governing item appearing last:

The Contract Bid Items  
Special Conditions  
Contract Drawings  
Supplemental Specifications  
Arlington County Construction Standards and Specifications  
External Agency Specifications

## 2. PERMITS

Permits required for the project include, but are not limited to:

- **County Land Disturbing Activities (LDA) permit**
- **County Public Right-Of-Way (PROW) permit**
- **County Transportation Right-Of-Way(TROW) permits**
- **County Resource Protection Area (RPA) permit**
- **County Water Meter and Fire Hydrant permits**
- **VDOT Land Use permit**
- **VDOT Open Cut permit**
- **VA DEQ Virginia Storm Water Management Program (VSMP) permit**
- **Northern Virginia Regional Park Authority (NVRPA) permit**

All fees for County permits will be waived by Arlington County, and fees for non-County permits will be paid by Arlington County.

The County will obtain the County LDA permit, the County RPA permit, VDOT Land Use permit, VDOT Open Cut permit, VSMP Permit and then NVRPA permits prior to the start of work. The Contractor shall transfer the County LDA permit, VDOT Land Use Permit, VDOT Open Cut permit and the VSMP Permit in the Contractors name as the permittee and/or responsible party prior to the start of Work. The Contractor shall complete and sign the VDOT forms and submit to the County Project Officer for submission to VDOT two weeks prior to the start of Work within VDOT ROW.

The Contractor shall provide a Responsible Land Disturber (RLD) that meets all the required qualifications of the permits. The Contractor shall complete and sign the RLD certificate and submit to the County Project Officer prior to the start of Work.

The Contractor shall obtain the County PROW permit, the County TROW permits and the County Water Meter and Fire Hydrant permits. The Contractor is responsible for investigating and satisfying all permit requirements for the above-mentioned permits.

## 3. STAKEOUT AND CUT-SHEETS

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 Arlington County Specifications. All cut-sheets for layout and construction shall be provided as submittals at least seven (7) calendar days prior to construction of the work included on that cut-sheet. The cost of all necessary surveying services shall be considered incidental to the work and no separate payment shall be made.

4. SCHEDULE, DURATION, AND PHASING REQUIREMENTS

The Contractor shall provide a schedule for all work listed on plans including any additional work not specifically mentioned on plans but was agreed upon with the County prior to work commencing.

Work Duration per task order shall be calculated in accordance with Supplements to the General Condition "SC-F.2 TIME FOR COMPLETION". The Time for completion shall be used as the basis for the project schedule.

Contractor shall make sure that the submittals/shop drawings are reviewed and accepted and materials ordered and delivered on site as no additional time will be granted for this.

5. WORK HOURS

The Contractor shall comply with **normal daytime working hours** per the Transportation Right-of-Way Permit standard hours for operation for work, unless otherwise indicated on the project's Maintenance of Traffic Plans, or approved by the Project Officer.

[Transportation Right-of-Way Permit – Official Website of Arlington County Virginia Government \(arlingtonva.us\)](http://www.arlingtonva.us)

The Contractor shall comply with **restricted working hours** of Monday through Friday, 9:00 am to 3:00 pm when working in Arlington County arterial streets unless otherwise indicated on the project's Maintenance of Traffic Plans or approved by the Project Officer.

The Contractor shall comply with **restricted working hours** as defined by VDOT and as noted on the approved VDOT permit when working within the VDOT Right-Of-Way. For restricted work hours in VDOT ROW, see attached "Lane Closure Guidelines in NOVA District". The Contractor is responsible for satisfying all VDOT Permit requirements found at: <http://www.virginiadot.org/business/fairfax-permits-main.asp>.

In addition, the County reserves the right to modify working days and hours to accommodate special site conditions as required.

6. GENERAL SITE SECURITY AND CONTROLS

The Contractor is responsible for securing its work area for safety and security. The Contractor shall confine its construction and presence to the Limits of Work, unless otherwise approved by the County Project Officer.

The Contractor shall provide, erect, and maintain barricades, fences, and/or signage as required to protect the general public, workers, and adjoining properties at no additional

cost to the County. Before leaving the site at the end of each day, the Contractor shall replace any and all sections of the security fence or barricade moved or removed during work hours.

The Contractor shall maintain clear vehicular access to existing driveways and entrances at all times unless such access is otherwise addressed on County-approved project plans, precluding concrete pouring and curing of such access points, unless otherwise directed by the County Project Officer.

Homeowners shall be notified by the Contractor a minimum of fourteen (14) calendar days in advance of any driveway closure, and driveways can only be closed for a maximum of five (5) calendar days.

The Contractor shall monitor parking of construction personnel's private vehicles and ensure that the public has unobstructed access to and through parking areas.

#### 7. TRAFFIC SIGNALS AND STREETLIGHTS

Materials and construction of the communications conduit, streetlights, and traffic signals shall abide by the latest versions of the 'Arlington County Traffic Signal Specifications and Standards' and 'Arlington County Lighting Specifications and Standards. All materials for these areas shall be approved by Arlington County Transportation Engineering and Operations Bureau. The County Project Officer will facilitate the material specification submissions for review by the Transportation Engineering and Operations Bureau.

The Contractor shall abide by VDOT's requirement to submit signal foundation details for review. These details include, but are not limited to soil tests to verify the detail design, along with any other supporting information required by VDOT in their submission package. Details shall be created for each signal pole foundation and shall be for both three feet and four feet diameter foundations. The County will assist only in the submission of these details to VDOT, if requested. The Contractor is responsible for satisfying all VDOT requirements. The Contractor shall incorporate all costs for this in relevant items and no payment will be made by the County. The submission shall be submitted with enough time for VDOT to adequately review it. The Contractor cannot claim any time delay or any additional compensation due to such delay.

Prior to removal of the existing signal equipment and materials, the Contractor shall meet with the Project Officer to verify which equipment will be returned to the County, when and where the returned equipment will be delivered, and which equipment will be disposed. All costs associated with this shall be incidental to other items in the Contract.

Installation of electrical service for temporary services such as signals, streetlights, signal cabinets, construction trailers, or for equipment use are incidental to the contract.

Intercepting existing streetlight conduits and splicing into existing cables are incidental to the contract.

References to a CCTV camera shall mean to both furnish and install the CCTV camera, unless specifically excluded.

As part of the luminaire installation, Contractor shall install house-side shields in each fixture. These shields will be provided by the County. If requested, the County will demonstrate how to install the shields. The Contractor shall contact the Streetlights Operations Team Manager at (703) 228-6531 to obtain the shields prior to ordering any streetlight materials to ensure they will be available at the time of construction, and to request a demonstration on how to install the shields. Failure to do so will be at the Contractor's expense for time if construction is stopped because the shields are not available. The installation of the shields is considered incidental to the contract and no additional payments shall be made for this work.

8. UNLISTED WORK

The Bidder shall submit pricing for Unlisted Work that includes a schedule of equipment and labor hourly rates in the space provided on the Bid Form. Unlisted Work shall be determined in one or more of the following ways:

- Written estimate and acceptance by the County in a lump sum using the bid hourly rates,
- Cost-reimbursement using the bid hourly rates, or
- Other authorized method permitted under the Arlington County Purchasing Resolution.

9. JOB SIZE LIMITATION & ESTIMATED ACTIVITY

The size of the assigned jobs may vary throughout the contract term, but shall not exceed \$750,000 (Seven hundred fifty thousand dollars) per project assignment. Sample projects depicting type, scope, breath, and nature of work intended are provided as samples.

10. OTHER COUNTY CONTRACTS

Arlington County may solicit separate bids for work specified under this contract which may include items or services from other projects.

## **SUPPLEMENTS TO THE DES CONSTRUCTION STANDARDS AND SPECIFICATIONS**

Modify the listed sections as follows:

### SECTION 01000 – GENERAL PROVISIONS AND REQUIREMENTS

#### 1.11 WORK SITE CONDITIONS

**Add**

The work site shall be kept and maintained by the Contractor in a neat, orderly, and workmanlike appearance at all times. The Contractor shall remove and legally dispose of, DAILY, all refuse, rubbish, scrap materials and debris generated at the site.

Stock piling of materials on site will not be allowed unless approved by the Project Officer.

Upon approval, any stockpiled materials must be adequately contained and kept covered with perimeter controls employed to minimize runoff and possible contamination.

#### 1.12 PUBLIC CONVENIENCE

**Add**

Arlington County is a highly developed urban area with very active and concerned citizens. Performing underground utility projects in this setting presents a very challenging task and requires and demands placing public convenience first.

The Contractor shall make every effort to place pipe, materials, equipment, and portable toilets where disturbance to residents is minimized.

Parking and space is at a premium in Arlington. The Contractor is to limit the parking of construction equipment to only items used daily and make every effort to open up job sites on weekends and after hours.

The Contractor is to prioritize final restoration and complete restoration in a timely manner, regardless of the size or scope of the project, so as to minimize the inconvenience to residents as much as possible.

### SECTION 02200 – EARTHWORK

#### PART 3 EXECUTION

##### PARAGRAPH 15. Trench Excavation

**Add**

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The maximum length of open trench at any time shall not exceed 150 linear feet.

PARAGRAPH 17. Storage, Handling and Disposal of Excavated Materials

**Add**

No excavated materials shall be placed on the pavement without permission of the project officer. When so permitted, protect the pavement with a one inch layer of 21-A or approved substitute material at no additional cost to Arlington County.

Trench excavation for the contract produces a large volume of material deemed surplus to the work. It is the Contractor's responsibility to load, haul off, and dispose of this surplus material daily. No excavated material is to be used in the top 32 vertical inches of a trench dug in pavement.

PART 4 MEASUREMENT AND PAYMENTS

PARAGRAPH 27. Over Excavation

**Add**

When included as a pay item or Stipulated Price Item, and authorized by the Project Officer, Over Excavation conducted as a result of obstructions or unsuitable bedding for pipes or structures shall be measured in cubic yards excavated in excess of the contract documents. For this contract, Over Excavation is considered any excavation over a depth of seven (7) feet. Payment shall be made for cubic yards and will include excavation, handling, storage and disposal of materials, backfilling, compaction, testing, and all other activities necessary to comply with these Specifications. When not included as a pay item or Stipulated Price Item, Over Excavation will be paid as Excavation. No payment shall be made for any Over Excavation unless ordered in writing by the Engineer prior to commencement of the operations.

SECTION 02500 – GRAVITY SEWERS AND APPURTENANCES

PART 3 EXECUTION

PARAGRAPH 3.1 General

**Delete**

- E. In the event of a water or sewer emergency, the Contractor shall immediately notify the County's Water Control Center at 703-228-5555 and the Project Officer.

**Add**

- E. 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.

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## SECTION 02550 – WATER MAINS AND APPURTENANCES

### PART 2 PRODUCTS

#### PARAGRAPH 2.3 Tie Rods and Accessories for Anchorage and Mechanical Joint Restraints

##### **Add**

Thrust restraint shall require and include concrete thrust blocks in addition to megalugs, tie rods and accessories.

#### PARAGRAPH 2.5 Butterfly Valves, Check Valves, and Insert Valves

##### **Add**

Insert valves for installation on 6-inch through 12-inch water mains shall be Team InsertValve™ as manufactured by Team Industrial Services, or approved equal.

Insert valves for installation on 16-inch water mains shall be EZ™ Valve as manufactured by Advanced Valve Technologies, LLC, or approved equal.

### PART 3 EXECUTION

#### PARAGRAPH 3.4 Construction Standards

##### **Delete**

N. In the event of a water or sewer emergency, the Contractor shall immediately notify the County's Water Control Center at 703-228-5555 and the Project Officer.

##### **Add**

N. 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.

Clean, swab and spray new pipe, fittings and valves with a minimum one per cent (1%) solution of chlorine prior to installation and connection to existing water distribution mains.

## SECTION 02650 – RESTORATION OF ROADWAYS

### PART 3 EXECUTION

#### PARAGRAPH 3.6

##### **Add**

Excavation in the pavement area shall require that pavement surfaces be saw-cut to provide a straight and smooth edge. Cut out pavement shall be saw cut to a depth of up

to ten (10) inches and be 24-inches (12-inches each side) wider than the trench width or excavation opening as shown on Construction Standard M-6.0.

- a. When the trench is located along an existing curb and gutter, the 12-inch bench cut is waived on the curb side but is required on the other side of the trench.
- b. Saw cut pavement, up to a depth of 10-inches for both sides of the trench, shall be included in the square yard price of asphalt restoration.

## **SPECIAL PROVISIONS**

In addition to conforming to the Arlington County Department of Environmental Services Construction Standards and Specifications and the modifications to these standards and specifications described above, all work shall also conform to the Special Provisions outlined below. The Contractor shall keep a copy of these Special Provisions readily available at the project site at all times.

If there is any discrepancy between the Special Provisions outlined in this section and the terms and provisions of the Construction Standards and Specifications and modifications identified above, the requirements of these Special Provisions shall prevail over the other documents.

### **1. CREW AND EQUIPMENT AVAILABILITY**

Contractor shall have the ability at all times to furnish two (2) complete, qualified pipe laying crews for the simultaneous performance of the work at such times and for such duration as may be specified by Arlington County. A qualified pipe laying crew shall consist of a foreman, operator(s), pipe layer, tailman and laborer. Each Foreman shall have at least five (5) years of experience in the installation and maintenance of water mains and shall have been in charge of installing at least 10,000 linear feet of ductile iron pipe up to and including 16-inches in diameter.

### **2. PROJECT ASSIGNMENTS**

The Contractor shall submit to the Project Officer, prior to the start of any work a full description and details and obtain the Project Officer's approval of all materials required for completion of each project assignment as specified in the current edition of the Arlington County Construction Standards and Specifications. Subsequent project assignments including Unlisted Work shall not require submittals previously approved, unless new material(s), a change in materials, or the use of different material(s) is proposed.

Individual projects will be assigned to the successful Contractor by the Project Officer using email, or a letter of transmittal with Project Plans (Plans) attached or other method agreed to between the parties.

The Contractor shall send to the Project Officer a written estimate (estimate) for the assigned project, using the contract unit prices. This estimate will be used to ensure the County allocates sufficient funds to pay for the anticipated quantities at the contract unit prices and the Contractor and the County have the same understanding of the work. The estimate shall not oblige the County to pay the estimate in full, instead the work compensation shall be based on actual quantities provided and installed at the contract unit prices.

The written estimate by the Contractor shall show a time of completion agreed to by the Contractor and the Project Officer.

Upon acceptance of the Contractor's estimate and agreed upon time of completion, the Project Officer will issue a Project Assignment Transmittal, a county approved purchase order and a Notice to Proceed for every project assignment that states the time of completion for each individual assignment. Liquidated damages as described in Subsection I, Paragraph 11 of this solicitation will be assessed for any work not completed within the time frame specified in the Notice to Proceed.

The Contractor shall start work on each assigned project within thirty (30) calendar days of receipt of the County approved Purchase Order (PO) and Notice to Proceed (NTP), unless the Project Officer approves in writing a date beyond the thirty (30) day time frame. Once the project is initiated, the Contractor shall diligently place all efforts to complete the project as per the terms of this contract and the NTP issued by the County.

### 3. PRE-CONSTRUCTION/PROGRESS MEETINGS

Planned pre-construction/progress meetings shall be held monthly at the Trades Center or at a project site.

This meeting shall serve as a Pre-construction meeting for newly awarded jobs; as well as a meeting to discuss updates on future projects, plans or needs. This meeting shall also serve as a Progress Meeting to discuss current and completed jobs.

The Arlington County Project Officer(s) and the Contractor shall attend this meeting. Other personnel involved in the project(s) should also attend this meeting.

During this meeting and prior to starting newly awarded jobs, approved drawings and documents associated with the new jobs shall be reviewed and major items shall be discussed by the participants. Special features and requirements of each job shall be discussed to clarify anything that is unclear in the job plans and specifications. Any proposed design or construction changes must be discussed at this meeting.

During this meeting, status of current jobs shall be reviewed and evaluated for progress.

During this meeting, status of completed jobs shall be evaluated to verify that they are complete and/or to identify punch list items that still need to be completed

During this meeting, the progress of work on each job should be discussed as well as estimated time of completion for each job

This meeting shall also be used an opportunity to discuss any contract issues

During this meeting, Billing and/or Payment issues and concern shall be reviewed and addressed.

### 4. AS-BUILT PLANS

Upon completion of the construction and prior to the release of final payment by the County, the Contractor shall submit and obtain approval of as-built plans. As-built plans may be a clean set of prints clearly marked up to show the following:

Location of temporary blow-offs used in the testing of water mains.

Show actual location of all utility crossings by location relative to station at center line of water main, depth or elevation, type, and size of utility.

Provide a minimum of two (2) swing ties to all valve boxes and permanent blow-offs from fixed permanent objects visible above snow cover such as fire hydrants, utility poles or building corners. Swing ties shall cross as near to ninety degrees as practical for each valve box and blow-off located.

Include a statement from the Contractor that the water main was constructed in substantial conformance with the approved plans, unless otherwise noted on the as-built plans.

The Contractor shall keep and have available copies of all as-builts for the duration of the contract.

Upon approval of the as-built plans by the Engineering Supervisor, final payment shall be released.

## 5. EXTRA WORK

Extra Work may include, but not be limited to the following types of work:

### A. EMERGENCY REPAIRS

The Contractor shall make available to Arlington County, on a 24-hour basis during the term of this Contract, such portion of his labor force, materials and equipment as may be required by Arlington County for the purpose of making or assisting in repairs to water mains and other facilities owned and operated by Arlington County. The Contractor shall furnish all labor, materials and equipment immediately upon receipt of request by Arlington County and shall give highest priority and continuing attention to the repair until the repairs and improvements have been satisfactorily completed. The contractor's response time upon notice of emergency shall be within two (2) hours. Miss utility shall be called immediately upon notification of emergency work. Contractor should be able to make repairs under medium to low system pressure when a full shutdown of the water main can not be completed during the emergency.

Upon award of the contract, the Contractor shall submit a contact list with names and phone numbers of key personnel to be contacted if emergency work is required. In an emergency, material used to repair water mains will be provided, when available, by the County from its Water/Sewer/Streets Warehouse, located at: 4202 S. 28th Street Arlington, Virginia 22206

County staff authorized to request emergency work from the Contractor will be identified at the contract start-up meeting.

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The Contractor will be compensated for the Emergency Work requested by, and performed to the satisfaction of, the County Project Officer at the contract unit prices and contract rates identified in Section VI of the Bid Form.

Usual tasks or repairs vary but some can be extremely difficult and very time consuming. The Contractor is to have the ability to rotate staff and personnel such that each event or repair can proceed around the clock for multiple days, if necessary.

Work most likely will involve long hours and include weekends. Bid labor rates shall be fully loaded to reflect Contractor's cost.

When responding to emergency water main or water service breaks and/or repairs, the Contractor shall clean, swab and spray new pipe, fittings and valves with a minimum one per cent (1%) solution of chlorine prior to installation and connection to existing water distribution mains.

**B. REPAIR OF STEEL PIPE**

When required, employ or subcontract qualified personnel including certified welders, where necessary for the repair or installation of steel pipe up to 36-inches in diameter.

**C. REPAIR OF LARGE DIAMETER PIPE**

Employ or subcontract qualified personnel and provide owned or leased equipment as appropriate for the repair of prestressed concrete cylinder pipe, ductile iron pipe, and cast iron pipe up to 48-inches in diameter.

**D. MISCELLANEOUS**

May include water main relocations for highway projects, major water main connections performed during the night and improvements to other Arlington County owned facilities.

**6. UNIT PRICING**

Unit prices shall include excavations to a maximum depth of seven (7) feet to the invert of the pipe. For this contract, over-excavation is considered any excavation over a depth of seven (7) feet. If over-excavation is required, payment will be in accordance with the contract unit price for over-excavation (YD3). Payments will be based on actual field measurements taken by Arlington County personnel. The intent of the unit prices is to provide a complete functioning unit which may include work from several specification sections.

**A. WATER MAIN WORK (INCLUDING ALL MATERIALS)**

**1. WATER MAINS (BID ITEMS 1-5 AND 16-20)**

Water mains for the various classes and sizes shown on the Bid Proposal shall be measured in linear feet along the pipe center line and shall include the length of fittings and valves.

Unit prices shall include furnishing and installing the various pipe sizes as well as the following:

- a. Mobilization to site
- b. Submittals and job site layout
- c. Excavation to a maximum depth of seven (7) feet to invert of pipe
- d. Removal and disposal of all surplus and unsuitable material generated from trench excavation and pipe installation  
Support of existing utilities
- e. Furnishing and installing necessary fitting including accessories and thrust restraints
- f. Furnishing and installing 8-mils polyethylene encasement over the pipe, fittings, valves and branch connections
- g. Testing, disinfecting, sampling, certifications, flushing, dewatering and proper disposal of super chlorinated water
- h. Furnishing and placement of 18-inches of compacted aggregate.
- i. Necessary trench maintenance for a one year period commencing from date of completion.
- j. Installation of detectable marking tape.

## 2. CONNECT TO EXISTING WATER MAINS (BID ITEMS 13-14)

Payment for connection to existing water mains shall be one each for sizes 4-inch through 8-inch; and one each for sizes 10-inch through 16-inch. Pricing shall include excavation, disposal of surplus and unsuitable material, test pits, sleeves, dewatering, cutting, and thrust restraint. Pricing shall also include cleaning, swabbing, and spraying new pipe, fittings and valves with a minimum one per cent (1%) solution of chlorine prior to installation and connection to existing water distribution mains.

### a. 2-INCH TEMPORARY BLOW-OFF (BID ITEM 29)

2-inch temporary blow-offs shall be measured as each. Payment shall include excavation, setting, restraint, tapping, piping, fittings and outlet required to achieve a 2-inch connection to temporary dead ends to allow testing and adequate flushing of host mains. Payment shall also include removal prior to anticipated connections.

### b. REMOVE AND REPLACE WATER MAINS (BID ITEMS 16-20)

The Contractor is advised that the contract unit price for "REMOVE & REPLACE WATER MAIN", all sizes, shall be paid for in the case where the County requests relocations of existing water mains horizontally or vertically by removing the existing main and replacing with the same size new main. Price to include removal and disposal of abandoned pipe, costs for dewatering and additional cuts necessary to remove pipe and any additional incidentals associated with pipe removal.

### c. INSERTION VALVES (BID ITEMS 30-34)

Insertion valves will be paid for as each by size. Payment shall include test pits, excavation,  
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bedding, thrust restraint, installation, valve, valve box and backfill.

### 3. WATER SERVICES

a. SERVICE TAPS (BID ITEM 1 UNDER II.A AND II.B)

Service taps will typically be required where complete replacement of an existing service is needed due to conditions where the existing service is found to be galvanized, deteriorated or undersized pipe; or where an entirely new service is needed from the main to a water meter crock location for a newly developed lot. Please note that pavement restoration shall be paid under a separate bid item and all meters shall be supplied by Arlington County at no cost to the Contractor

b. RETAPS (BID ITEM 3 UNDER II.A AND II.B)

Service Retaps will comprise tapping a newly installed water main and finding and connecting an existing service to this tap within 10-feet of the water main. Service Retaps will typically be required for existing services that are found to be properly sized copper pipe in good condition where no upgrade is needed to the meter location. Please note that pavement restoration shall be paid under a separate bid item and all meters shall be supplied by Arlington County at no cost to the Contractor.

### B. RELATED WORK – INCLUDING ALL MATERIALS

1. TEST PIT (Bid Item 24)

The contract unit price for test pits shall apply in the following cases, upon approval of the Project Officer. Test pits shall not apply to utility connections to properties such as gas services, water services and sanitary laterals. Restoration shall be compensated for at the applicable unit prices under this contract:

- Utilities, which are not shown on the plans provided to the Contractor for construction under this contract, but are marked by the utility designator prior to construction.
- Tie-in, wet tap or connection locations to accurately determine alignment elevation and O.D. of existing pipe
- Test pits are not provided by the County as part of the plans provided to the Contractor for construction under this contract

### C. RESTRICTED WORK HOURS AND PROJECTS (UNDER 50 LINEAR FEET)

The work hours allowed in the County Right-of-Way may vary for individual project assignments. In cases where work hours are restricted to 6 hours or less a day per the approved Right-of-Way permit, the work shall be compensated for at the contract unit prices identified in Section IV on the Bid Form. In cases where an individual project assignment is less than 50 linear feet the work shall be compensated for at the contract unit prices identified in Section IV on the Bid Form. Contract unit prices for items other than those identified in Section IV on the Bid Form, if required for the



restricted work hour and fewer than 50 linear feet project assignment(s) shall be compensated at the contract unit bid prices specified elsewhere on the Bid Form.

D. UNLISTED WORK

Work required under this contract that is not on an emergency basis and is not listed under section I, II (A and B), III or IV of this Bid Form shall be covered under this section. All work under this section shall require a written estimate from the Contractor using the bid hourly rates. Materials will be furnished by the County when available. When the Contractor supplies materials, the county shall reimburse the contractor for actual cost.

The Bidder shall submit pricing for unlisted work that includes schedule of equipment and labor rates in the space provided in the Bid Form.

1. TRACK EXCAVATOR WITH OPERATOR (BID ITEM 13)

Contractor is responsible for properly sizing equipment. Payment for this bid Item will be for any track excavator of 50,000 pounds or less.

2. TOOL TRUCK OR TRAILER (BID ITEM 15)

Tool truck or trailer is to be paid for by the hours used on the job. This pay item is to be the Contractor's compensation for necessary small tools and incidentals that are commonplace to water main installation and repairs. This pay item shall cover but not be limited to ladder, shovels, brooms, cables, slings, pipe saws, saw blades, pumps up to 3-inch, jumping jacks, plate compactors, hoses, dirt discharge bags, and small generators and necessary fuel. Necessary small tools will be considered any equipment which has a new cost value of \$3,000 or less.

F. EMERGENCY WORK

1. MOBILIZATION AND DEMOBILIZATION (LINE ITEM 1)

Mobilization requires the Contractor to be onsite to respond to emergency water main repairs within 2 hours of receipt of request from Arlington County. Mobilization and demobilization for emergency water main repairs shall be paid for per event. This pay item shall include travel time of all personnel and equipment, as needed, to accomplish the work. This pay item also includes demobilization from the site upon completion of the emergency response.