

SECTION 01270

UNIT PRICES

PART 1 GENERAL

1.01 REQUIREMENTS INCLUDED

- A. All work shall be paid on the basis of the Unit Prices stated in the Bid Form and upon the actual work performed and materials installed, complete-in-place, in accordance with the Contract Documents. No separate payment shall be made for such items as the constant maintenance and coordination of the work, erosion and sediment control, utility excavation, excavation, trench protection, utility support and coordination, traffic control, sheeting and shoring, underpinning, installation procedure, maintaining drainage flow, maintaining sewage flow, dewatering, utility backfill, backfill, pavement saw cutting, cutting and removal, inspection, testing and restoration except when specified otherwise. The expense for these and any other incidental or related work necessary to provide and install a Bid Item, complete-in-place, shall be included in the Unit Price for that particular Bid Item. All work indicated or implied for a complete and finished installation shall be included in one of the several unit prices.

1.02 RELATED REQUIREMENTS

- A. Section BIDFORM; Bid Form
- B. Section SCHED; Schedule of Unit Prices
- C. Section 01770; Closeout Procedures

1.03 PAYMENT FOR UNIT PRICE WORK

- A. GENERAL: For the information and guidance of bidders, the following explanations of the bid form items are made. The omission of reference to any item in this description shall not, however, alter the intent of the bid form or relieve the Contractor of the necessity of furnishing such as a part of the Contract. The quantities set forth in the bid form are approximate and are given to establish a uniform basis for the comparison of bids. The Owner reserves the right to increase or decrease the quantity of any class or portion of the work during the progress of construction in accord with the terms of the Contract. Unit prices are used as a means of computing the final figures for bid and contract purposes, for periodic payments for work performed, for determining value of additions or deletions, and wherever else reasonable.
- B. RESTORATION: The unit prices for the various items include all restoration associated with those items. Restoration includes restoration of private driveways or parking lots, private lawns or easements, including any ditches, head walls, end walls, culvert pipes, drainage features, signs and mailboxes along all disturbed areas. Restoration also includes sidewalk and curb and gutter repair or replacement, temporary and permanent seeding of all disturbed areas along the waterline routes, including topsoil, fertilizer and mulching.

C. BID ITEMS:

1. Mobilization/ Demobilization: Lump sum price for the mobilization and demobilization of all necessary materials, equipment, and labor to the site. Price shall not exceed 5% of the total bid price.
2. 24" Steel Casing Pipe, Complete-in-Place: Price per linear foot for the boring and installation of steel casing pipe, including all materials and accessories to the specified depth. Price per linear foot includes excavation of bore pit, all necessary shoring, boring, casing pipe, restoring disturbed areas, traffic control devices, maintenance of traffic, and roadway repairs (if necessary). Price does not include carrier pipe, which is under a different line item.
3. 12" Ductile Iron Water Main, Complete-in-Place: Price per linear foot for the installation of water main including all materials and accessories to the specified depth. Price per linear foot includes all furnishing, installing, excavation, bedding, compaction, and compaction testing. Price will include all granular material used for pipe bedding, and all general backfill material. Select material is not included in this item and is included under a separate unit price item. Item includes water sampling and testing stations, cutting and removal of pavement or concrete, traffic control and safety devices, sheeting and shoring used by the Contractor, dewatering and removal of excess material. Mechanical joint pipe item includes megalug retainer glands and restrained joints. Price also includes all horizontal and vertical bends, reducers, adapters, and plugs as shown on the Drawings. Unit pricing for this line item shall also include all clearing and grubbing, erosion and sediment control, seeding and restoration, wetlands/stream crossings, terminal marking posts, surveying stake-out, as-builts, and geotechnical testing. Pay width will be as shown on the Drawings and described in Section 02300, Earthwork, of this Project Manual.
4. 8" Ductile Iron Water Main, Complete-in-Place: Price per linear foot for the installation of water main including all materials and accessories to the specified depth. Price per linear foot includes all furnishing, installing, excavation, bedding, compaction, and compaction testing. Price will include all granular material used for pipe bedding, and all general backfill material. Select material is not included in this item and is included under a separate unit price item. Item includes water sampling and testing stations, cutting and removal of pavement or concrete, traffic control and safety devices, sheeting and shoring used by the Contractor, dewatering and removal of excess material. Mechanical joint pipe item includes megalug retainer glands and restrained joints. Price also includes all horizontal and vertical bends, reducers, adapters, and plugs as shown on the Drawings. Unit pricing for this line item shall also include all clearing and grubbing, erosion and sediment control, seeding and restoration, wetlands/stream crossings, terminal marking posts, surveying stake-out, as-builts, and geotechnical testing. Pay width will be as shown on the Drawings and described in Section 02300, Earthwork, of this Project Manual.

5. 6" Ductile Iron Water Main, Complete-in-Place: Price per linear foot for the installation of water main including all materials and accessories to the specified depth. Price per linear foot includes all furnishing, installing, excavation, bedding, compaction, and compaction testing. Price will include all granular material used for pipe bedding, and all general backfill material. Select material is not included in this item and is included under a separate unit price item. Item includes water sampling and testing stations, cutting and removal of pavement or concrete, traffic control and safety devices, sheeting and shoring used by the Contractor, dewatering and removal of excess material. Mechanical joint pipe item includes megalug retainer glands and restrained joints. Price also includes all horizontal and vertical bends, reducers, adapters, and plugs as shown on the Drawings. Unit pricing for this line item shall also include all clearing and grubbing, erosion and sediment control, seeding and restoration, wetlands/stream crossings, terminal marking posts, surveying stake-out, as-builts, and geotechnical testing. Pay width will be as shown on the Drawings and described in Section 02300, Earthwork, of this Project Manual.

6. 4" Ductile Iron Water Main, Complete-in-Place: Price per linear foot for the installation of water main including all materials and accessories to the specified depth. Price per linear foot includes all furnishing, installing, excavation, bedding, compaction, and compaction testing. Price will include all granular material used for pipe bedding, and all general backfill material. Select material is not included in this item and is included under a separate unit price item. Item includes water sampling and testing stations, cutting and removal of pavement or concrete, traffic control and safety devices, sheeting and shoring used by the Contractor, dewatering and removal of excess material. Mechanical joint pipe item includes megalug retainer glands and restrained joints. Price also includes all horizontal and vertical bends, reducers, adapters, and plugs as shown on the Drawings. Unit pricing for this line item shall also include all clearing and grubbing, erosion and sediment control, seeding and restoration, wetlands/stream crossings, terminal marking posts, surveying stake-out, as-builts, and geotechnical testing. Pay width will be as shown on the Drawings and described in Section 02300, Earthwork, of this Project Manual.

7. 12" Gate Valve & Box, Complete-in-Place: Price per valve for the installation of a line valve as shown on the Drawings. Price includes installation of a valve box and all appurtenances and accessories at the depth indicated and no extra compensation shall be allowed for any of these items. This item includes megalug retainer glands.

8. 8" Gate Valve & Box, Complete-in-Place: Price per valve for the installation of a line valve as shown on the Drawings. Price includes installation of a valve box and all appurtenances and accessories at the depth indicated and no extra compensation shall be allowed for any of these items. This item includes megalug retainer glands.

9. 6" Gate Valve & Box, Complete-in-Place: Price per valve for the installation of a line valve as shown on the Drawings. Price includes installation of a valve box and all appurtenances and accessories at the depth indicated and no extra compensation shall be allowed for any of these items. This item includes megalug retainer glands.

10. 4" Gate Valve & Box, Complete-in-Place: Price per valve for the installation of a line valve as shown on the Drawings. Price includes installation of a valve box and all appurtenances and accessories at the depth indicated and no extra compensation shall be allowed for any of these items. This item includes megalug retainer glands.
11. Blow-Off Assembly, Complete-in-Place: Price each for the installation of a blow-off assembly as detailed on the Drawings. Price includes installation of a valve box, blow-off piping, and all appurtenances.
12. Automatic Air Release Valve & Box, Complete-in-Place: Price per valve for the installation of an air release valve as detailed on the Drawings. Price includes installation of a valve box and all appurtenances.
13. Type #1 Water Service Connection, Complete-in-Place: Price each to locate existing water service line and connect it to new water service connection as shown on the Drawings. Price includes connection to existing water service line, including new meter box at property line, water meter, and all fittings, appurtenances, excavation, bedding, backfill, compaction and compaction testing, erosion control and restoration. The water meter shall be Sensus MODEL 520R MXU radio read meter with transceiver unit, and shall be provided by the Contractor.
14. Type #2 Water Service Connection, Complete-in-Place: Price each to locate existing water service line and connect it to new water service connection as shown on the Drawings. Price includes connection to existing water service line, including new meter box at property line, water meter, and all fittings, appurtenances, excavation, bedding, backfill, compaction and compaction testing, erosion control and restoration. The water meter shall be Sensus MODEL 520R MXU radio read meter with transceiver unit, and shall be provided by the Contractor.
15. Type #3 Water Service Connection, Complete-in-Place: Price each to install new water service connection as shown on the Drawings. Price includes new water service line to property line, new meter box, and all fittings, appurtenances, excavation, bedding, backfill, compaction and compaction testing, erosion control and restoration. The water meter shall be Sensus MODEL 520R MXU radio read meter with transceiver unit. The water meter shall be provided by the Contractor to the Owner, but not installed.
16. Connect to Existing Water System, Complete-in-Place: Price each to connect proposed water main to existing water main at location shown on Drawings, including all restraints, fittings and appurtenances.
17. Existing Water System Abandonment "A", Complete-in-Place: Price each to abandon existing water main at location "A" as shown on Drawings, including all restraints, fittings and appurtenances.
18. Existing Water System Abandonment "B", Complete-in-Place: Price each to abandon existing water main at location "B" as shown on Drawings, including all restraints, fittings and appurtenances.

19. Partial Existing Water System Deactivation, Complete-in-Place: Price each to cut and cap existing water mains to partially deactivate the existing water system at the direction of the Owner, after activation of the new water system. Price includes all installing, excavation, bedding, compaction, testing, restraints, fittings and appurtenances.
20. Pavement Reconstruction in Trench, Complete-in-Place: Price per square yard for replacement pavement section, including concrete base, aggregate sub-base, and appurtenances, as shown on the Drawings. Price includes backfill of trench top grade with VDOT 21-A stone as shown on the Drawings. Pay width will be as shown on the Drawings and described in Section 02300, Earthwork, of this Project Manual.
21. Asphalt Overlay, Complete-in-Place: Price per square yard to provide tack coat and a 1.5-inch asphalt overlay, SM-2A, over the width of the existing paved road as shown on the Drawings. Price also includes milling of 1 ½” of base material.
22. Select Material (Only If Authorized by Owner): Price per cubic yard of select material, including ASTM D 2487 soil classification groups SC, SW, SP, and SM as defined in Section 02300, Earthwork, of this Project Manual, as directed by the Engineer and Owner. Price shall include the replacement and the proper compaction with select backfill, and the disposal of existing material. Item includes all labor and materials. Pay width will be as shown on the Drawings and described in Section 02300, Earthwork, of this Project Manual.
23. Undercut Excavation (Only If Authorized by Owner): Price per cubic yard of additional undercut stone pipe bedding as defined in Section 02300, Earthwork, of this Project Manual, as directed by the Engineer and Owner. Price shall include the replacement and proper compaction with pipe bedding material, and the disposal of existing material. Item includes all labor and materials. Pay width will be as shown on the Drawings and described in Section 02300, Earthwork, of this Project Manual.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

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