

SPECIAL CONDITIONS MEASUREMENT AND PAYMENT

PART 1 – GENERAL

1.1 Description

- A. Measurement and payment for bid items listed in the proposal shall be based upon use of a lump sum or unit price method. Extra work or changes in the Work shall be accomplished as provided in the General Conditions.

1.2 Related Work (Not Applicable)

1.3 Submittals (Not Applicable)

1.4 Payment

- A. Payment for Unit Price Items
Payment for a unit price bid item shall be based upon the amount shown in the bid schedule multiplied by the total quantity measurement of the item and shall be full compensation for furnishing all supervision, planning, design, design engineering fees, labor, transportation, materials, equipment, tools and appurtenances required for construction of the item complete in place in accordance with the Plans and Specifications.
- B. Payment for Lump Sum Items
Payment for lump sum bid items shall be based upon the amount shown in the bid schedule and shall be full compensation for furnishing all supervision, planning, design, design engineering fees, labor, transportation, materials, equipment, tools and appurtenances required for construction of the unit of work complete in place in accordance with the Plans and Specifications.
- C. Work Not Listed in the Bid Schedule
Costs for related work and appurtenances which are required and/or implied by the Contract Documents and are not listed as a separate bid item but are necessary to complete the project shall be included in the appropriate bid item or items within the proposal.

PART 2 – MATERIALS

2.1 General (Measurement)

- A. Measurement for unit price quantities shall be based upon the appropriate bid item in the proposal. The actual quantity of measurement shall be as constructed by the Contractor in place in conformance with the Plans and Specifications.

2.2 Linear Measurements

- A. Measurement of pipelines and related facilities shall be made horizontally and/or vertically along the centerline of the pipeline and related facilities through tees, bends, valves, fittings and as shown on the Plans for its limits or as otherwise specified in the Contract Documents. Manholes and vaults shall be measured vertically from the lowest

to the highest elevations and as shown on the Plans or as otherwise specified in the Contract Documents.

2.3 Area Measurements

- A. Measurement for bid items involving area units shall be based upon the surface area measured in acres, square yards, square feet or as indicated in the bid item.

2.4 Volume Measurements

- A. Measurement for bid items involving volume units shall be based upon the volume measured in cubic yards, tons or as indicated in the bid item.

2.5 Unit Measurements

- A. Measurement for bid items involving units of the item shall be based upon the number of units counted as indicated in the bid item.

2.6 Lump Sum Measurement

- A. Measurement for a lump sum bid item shall be considered as a complete project or a portion of a project constituting a unit. The items to be included in the lump sum bid shall be as specified in the proposal bid item and/or the Contract Documents.

PART 3 – EXECUTION

3.1 Scope

- A. This section defines the bid items listed in the bid schedule and describes measurement and payment provisions for each of the bid items.

3.2 Bid Item 1 – Bay Crest Drive

- A. District will base payment on the actual length of 8-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH116 to manhole MH115 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3") or four inches (4") in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.
- C. After installing and curing, Contractor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.3 Bid Item 2 – Emerald Point Drive

- A. District will base payment on the actual length of 6-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH568 to manhole MH567 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3") or four inches (4") in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.
- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.4 Bid Item 3 – East Mesa Drive

- A. District will base payment on the actual length of 6-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH351 to manhole MH350 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3") or four inches (4") in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications,for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.
- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.5 Bid Item 4 – Drumcliff Road

- A. District will base payment on the actual length of 8-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH407 to manhole MH406 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3") or four inches (4") in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.

- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.6 Bid Item 5 – Shamrock Road (Easement)

- A. District will base payment on the actual length of 8-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH440 to manhole MH439 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3”) or four inches (4”) in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.
- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.7 Bid Item 6 - Shamrock Road

- A. District will base payment on the actual length of 8-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH473 to manhole MH462 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3”) or four inches (4”) in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.
- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.8 Bid Item 7 – East Mesa Drive

- A. District will base payment on the actual length of 6-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH352 to manhole MH351 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3”) or four

inches (4") in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.

- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.9 Bid Item 8 – Bay Crest Drive

- A. District will base payment on the actual length of 6-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH549 to manhole MH210 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3") or four inches (4") in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.
- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.10 Alternative Bid Item 1A – Sunset Ridge Drive

- A. District will base payment on the actual length of 6-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH306 to manhole MH305 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3") or four inches (4") in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.
- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.11 Alternative Bid Item 1B – Emerald Drive

- A. District will base payment on the actual length of 6-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.

- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH335 to manhole MH334 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3") or four inches (4") in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.
- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.12 Alternative Bid Item 1C – Londonberry Road

- A. District will base payment on the actual length of 8-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH502 to manhole MH500 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3") or four inches (4") in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.
- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.

3.13 Alternative Bid Item 1D – Ardmore Road

- A. District will base payment on the actual length of 8-inch trenchless sewer lining system installed by Contractor as determined in the field and verified by the District.
- B. The work to be paid for under this item shall include all bonds, insurance, supervision, labor, equipment, supplies, tools and incidentals necessary to install and cure trenchless sewer lining system from manhole MH414 to manhole MH413 and reactivate live sewer laterals at the connection point between existing sewer main and customer lateral connection. The private sewer lateral connections may be three inches (3") or four inches (4") in diameter. Contractor shall install new trenchless sewer lining system in accordance with the Greenbook Standard Specifications for Public Works Construction (SSPWC, specifically sec. 500-1 Pipeline Rehabilitation), Contract Documents and District Standards.
- C. After installing and curing, Contactor will perform a video inspection of the new lining system to insure that the main is properly sealed and free from defect. Contractor is to provide the District with copies of all post-installation video inspections upon project completion before submitting request for final payment.