

00950 - MEASUREMENT & PAYMENT

(Last revised X/XX/XX)

This section typically contains 30 to 35 pages

SELECTED LINKS TO SECTIONS WITHIN THIS SPECIFICATION

[Base Course & Paving](#)

[Curb & Gutter, Driveways, Sidewalks & Misc. Concrete](#)

[Earthwork](#)

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[Trenching, Backfilling & Compaction of Utilities](#)

[Sanitary Sewer](#)

[Storm Drainage](#)

[Water Distribution](#)

1.1 TRENCHING, BACKFILLING AND COMPACTION OF UTILITIES

Measurements for purpose of payment shall be in accordance with the unit quantities stated in the proposal as defined below. Whenever units of measure, (i.e. linear feet, each, and similar units of measurement) are mentioned in a proposal, it shall be interpreted to mean the unit installed in accordance with the plans and specifications, and ready for use. Prices for the following bid items shall include all labor, materials, tools, equipment, and other incidentals necessary to complete the work as shown on the plans and in accordance with these specifications.

A. Aggregate Backfill:

Measurement: Coarse granular fill will be measured by the cubic yard in place in the trench.

Payment: Price per ton for coarse granular fill shall include all materials, equipment, and labor required to furnish and install No. 57 or #67 stone in the locations designated by the City Engineer.

B. Bedding, Crushed Stone for Sewer Mains:

Measurement: Bedding stone is considered to be incidental to the cost of the pipe.

Payment: Not a pay item.

C. Excavation and Backfill:

Measurement and Payment: All excavation and backfill shall be included in the cost of the other items bid – not a pay item.

When the removal of existing structures or materials is classified separately as a contract pay item, payment will be made in accordance with the contract price; otherwise, such work will be considered as incidental work and will not be paid for directly, but the cost shall be included in the unit price for other items of work. In either case, such price or prices shall be full compensation

for all labor, materials, tools, equipment, and incidentals necessary to complete the work.

1.2 WATER

Measurements for purpose of payment shall be in accordance with the unit quantities stated in the proposal as defined below. Whenever units of measure, (i.e. linear feet, each, and similar units of measurement) are mentioned in a proposal, it shall be interpreted to mean the unit installed in accordance with the plans and specifications, and ready for use. Prices for the following bid items shall include all labor, materials, tools, equipment, and other incidentals necessary to complete the work as shown on the plans and in accordance with these specifications.

A. Bedding Stone for Water Pipe:

Measurement: When called for in the proposal or on the plans or directed by the City Engineer, aggregate material used for bedding water lines will be measured by the cubic yard of pipe bedding material placed.

Payment: Pipe bedding stone will be paid for at the contract unit price per cubic yard for pipe bedding material, complete and in place.

B. Blow-Offs:

Measurement: Blow-offs will be measured on a per each basis for the number of blow-offs installed.

Payment: Blow-offs will be paid for at the contract unit price per blow-off for the size specified, and all materials incidental to the installation of the blow-off, complete in place. This price shall include, but it not necessarily limited to, valve, piping, plug, fittings, valve box(es), bedding material, thrust collar, rodding, blocking, riser, and other related incidentals as shown on **Standard Details 514.05 and 514.06.**

C. Concrete Encasement

Measurement: Payment for furnishing concrete encasement will be at the unit price bid per cubic yard for the class of concrete stated in the proposal.

Payment: The unit priced stated in the proposal shall include the cost of additional depth of excavation, forming, the furnishing and placing of concrete, cofferdams, laying of pipe line to grade but excluding the cost of the pipe itself, complete in place, including all labor, equipment, and material, necessary and all other work incidental to the complete installation of the concrete encasement in accordance with the specification and details shown on the plans. Payment will be made to neat lines of construction shown on the plans with no allowance being made for extra ditch width.

D. ...

1.3 SEWER

Measurements for purpose of payment shall be in accordance with the unit quantities stated in the proposal as defined below. Prices for the following bid items shall include all labor, materials, tools, equipment, and other incidentals necessary to complete the work as shown on the plans and in accordance with these specifications.

A. Bedding Stone, Granular:

Measurement: Stone for bedding, when required, is considered to be incidental to the cost of the pipe.

Payment: Not a pay item.

B. Building Connections/Service Laterals:

Measurement: Measurement of building connections shall be made on a per service basis regardless of service pipe material or length.

Payment: Payment for service laterals shall be at the contract unit price bid, per service, for the sized indicated and shall include bends, wyes, saddles (if applicable), adapters, long sweep elbows, cleanout riser and plugs, clean-out box and lid (when cleanout is in pavement), and other incidentals as necessary, complete in place as shown on **Standard Details 533.01, 533.02 and 533.03**. Any temporary pumps required to by-pass sewer around work areas shall be provided at no additional cost.

C. Bypass Pumping:

Measurement: Bypass pumping is considered to be incidental to the cost of the pipe unless otherwise shown in the proposal.

Payment: Not a pay item.

D. Carrier Pipes (Installed in either Steel Encasements or Tunnel Liners)

Measurement: Measurement shall be along the centerline of the pipe.

Payment: Payment for carrier pipes will be made at the contract unit price bid per linear foot and shall include all necessary materials, tools, and equipment necessary to install and, if necessary, grout the ductile iron pipe inside the casing. The unit price does not include the casing pipe (see the individual pay items *Encasement Pipe* and *Tunneling*). The unit price shall include the cost of excavation, bedding, backfilling, cleanup, and testing.

E. Combination Sewer Force Main Air Valve and Air Release Manhole

Measurement: Measurement for combination air valve and air release manholes on force mains shall be on an each basis.