

SECTION 2
BID PROPOSAL

Bid Item #	Ref. Spec. Section/Drawing	Est. Qty	Unit of Measure	Item Description Unit Price Words And Figures	Extension In Figures
15	02060; 01505; Drawing G-0.4; C-1. 2	1 ADDENDUM 1	Lump Sum	Selective Demolition, exclusive of work related to ACM, PCB Containing Materials < 50 PPM and Universal Waste Reclamation Written Figures	\$ _____
16	02062; Drawing G-0.4; C-1.5; C-2.2; C-2.3	1	Lump Sum	Maintain Sewer Flows (Bypassing) - Maple St Gravity Sewer and East Main St Interceptor Sewer Written Figures	\$ _____
17	02062; Drawings G-0.4; C-2.4	1	Lump Sum	Maintain Sewer Flows (Bypassing)- 42 inch River Road Interceptor Sewer Written Figures	\$ _____
18	01011; 02060; Drawing C-1.2; C-7.2 and Civil Details	186 ADDENDUM 1	Each	Remove and Dispose Piles inside the footprint of the proposed improvements and which interfere with the proposed new work Written Figures	\$ _____
19	01011; 02060, Drawing C-1.2; C-7.1; C-7.2; Civil Details	15	Each	Cut and Cap piles inside the footprint of the proposed improvements and which do not interfere with the proposed new work Written Figures	\$ _____
20	02300; Structural And Civil Drawings	6,500 ADDENDUM 4	Per Linear Foot	Furnish and Install Micro-Piles Written Figures	\$ _____
21	02080, Drawing HBM1.2	1 ADDENDUM 1	Lump Sum	Pump Building Boiler Insulation (est. 100 SF) ADDENDUM 1 Written Figures	\$ _____

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Item 20: Furnish and Install Micro-Piles

A. Work under this item shall be measured for payment by the unit “Per Linear foot” of drilled shaft installed from the steel plate to the contract specified bottom of the rock socket.

B. Payment under this item shall include Micro-Piles at Pump Station Building and Valve Vault, Micro-piles at Surge Tank, Micro-Piles at Pipe Utility Bridge, complete, in place and accepted.

C. Payment under this item shall include full compensation for all labor, equipment, tools, supplies and materials incidental and necessary to complete the work, including specified verification testing, complete, in place, and accepted.

D. Additional verification testing requested by the Engineer shall be paid for under bid item “Micro-Piles - Additional Verification Testing as Ordered by Engineer”.

E. Greater depths than called for on the structural drawings for socketing the micro-piles should these fail the verification testing shall be paid for under other applicable unit price bid items.

Item 21: Pump Station Boiler Insulation

A. This Item, paid for on a lump sum basis, shall consist of disposal of asbestos containing boiler insulation on exterior surfaces of boiler.

B. Payment under this item shall include full compensation for all labor, equipment, tools, supplies and materials incidental and necessary including proper containment, decontamination unit, and proper disposal of decontamination unit waste water, complete, in place and accepted.

C. No separate payment will be made for any incidental items of work and/or materials that are inherently required to fulfill the intent of this Contract or required as a result of the Contractor’s construction sequencing to complete the work as specified and as indicated.

Item 22: Pump Building Wall Wood Panel and Associated Glue

A. This Item, paid for on a lump sum basis, shall consist of wood wall panels and residual glue on wall substrate to be removed and disposed of as asbestos containing material (ACM).

B. Payment under this item shall include full compensation for all labor, equipment, tools, supplies and materials incidental and necessary including proper containment, decontamination unit, and proper disposal of decontamination unit waste water, complete,

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- C. Furnishing and Installing micro-piles to the basis of design depths as shown on the structural drawings will be paid for under bid item “Furnish and Install Micro-Piles.”

Item 65: Micro-Piles - Rock Socket –Utility Bridge Crossing – Depth Greater than 4 Feet

- A. This Item shall be measured for payment by the unit price “Linear Feet”, of rock socket in excess of the depths called for on the Structural Drawings to adjust the basis of design in order to develop the specified tension requirements.
- B. Payment under this item shall include full compensation for all labor, equipment, tools, supplies and materials incidental and necessary, complete, in place and accepted.
- C. Furnishing and Installing micro-piles to the basis of design depths as shown on the structural drawings will be paid for under bid item “Furnish and Install Micro-Piles.”

Item 66: Micro-Piles – Additional Verification Testing As Ordered by Engineer

- A. This Item shall be measured for payment by the unit price “Per Test”, for the actual number of additional verification tests ordered by the Engineer.
- B. Payment under this item shall include full compensation for all labor, equipment, tools, supplies and materials incidental and necessary, complete, in place and accepted.

Item 67: 24 Inch Ductile Iron Pressure Force Main

- A. This Item shall be measured for payment by the unit price “Per Linear Foot” for the linear feet of new pipe, furnished and installed from the surge tank nozzle neck flange to the 30 inch force main 30” x 24” tee; AND, furnished and installed from the upstream 24” Force Wye to the downstream 24” Wye. The piping inside of the flow meter vault to the exterior limits shown on the contract drawings will be paid under bid item “Flow Meter Vault”. The ductile iron pipe shall be measured to the nearest 0.5 ft.
- B. Payment under this Item shall include full compensation for earth excavation and trench support; removal and disposal of existing abandoned utilities/structures within the proposed trench limits, furnishing, laying, and jointing of force main pipe and fittings, joint restraints, extended deflection coupling and telescoping sleeve, adapters and accessories; concrete thrust blocks at horizontal and vertical bends; pipe encasements, pipe cradles, stop collars; pipe bedding; marker tape and tracer wire, ~~earthen backfill and compaction;~~ disposal of surplus excavated non-controlled materials; and all labor, materials, tools, equipment and incidentals necessary for the completion of the Item in accordance with the contract documents, complete, in place and accepted.
- C. Excavation of unsuitable trench bottom material and screened gravel backfill shall be

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measured and paid for under bid item “Earth Excavation and Screened Gravel BELOW Normal Grade”.

- D. Rock Excavation, disposal and backfill as encountered shall be measured and paid for under bid item “Rock Excavation, Disposal and Backfill”.
- E. Support of existing active utilities/structures within the proposed trench limits shall be measured and paid for under bid items “Supporting Interfering Obstructions” and “Supporting Parallel Obstructions”.
- F. Excavation, disposal and reuse of controlled materials shall be measured and paid for under bid item “Controlled Materials Excavation”; “Disposal of Controlled Materials”; and “Management of Reusable Controlled Material”.
- G. Reuse of non-controlled materials shall be measured and paid for under bid item “Management of Reusable Non Controlled Material”.
- H. Dewatering shall be paid for under bid item “Handling Contaminated Groundwater Discharges to Sanitary Sewer”.

I.

Item 68: 30 inch Ductile Iron Pressure Force Main

- A. This Item shall be measured for payment by the unit price “Per Linear Foot” for the linear feet of new pipe, furnished and installed from the restrained coupling five (5) feet to the exterior of the Pump Station Valve Vault to the 24 inch WYE upstream of Flow Meter Vault; AND from the 24 inch WYE downstream of Flow Meter Vault to “Horizontal Bend with Thrust Block” at Sta. 206+20 +/- ; AND from the “22.5 Vertical Bend w/ Thrust Block” at Sta. 208+10 +/- to the point of connection to the 30” ductile iron force main at Sta. 208+63 on DeKoven Drive as shown on the drawings. The ductile iron pipe shall be measured to the nearest 0.5 ft.
- B. Payment under this item shall include full compensation for earth excavation and trench support; removal and disposal of existing abandoned utilities/structures within the proposed trench limits, furnishing, laying, and jointing of force main pipe and fittings, joint restraints, adapters and accessories; concrete thrust blocks at horizontal and vertical bends; pipe encasements, pipe cradles, stop collars; pipe bedding; marker tape and tracer wire; earthen backfill and compaction; disposal of surplus excavated non-controlled materials and all labor, materials, tools, equipment and incidentals necessary for the completion of the Item in accordance with the contract documents, complete, in place and accepted.
- C. Excavation of unsuitable trench bottom material and screened gravel backfill shall be

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measured and paid for under bid item “Earth Excavation and Screened Gravel BELOW Normal Grade.

- D. Rock Excavation, disposal and backfill as encountered shall be measured and paid for under bid item “Rock Excavation, Disposal and Backfill”.
- E. The force main crossing of Sumner’s Creek shall be measured and paid for under bid item “30 inch Ductile Iron Pressure Force Main – Sub-Aqueous Crossing.
- F. Support of existing active utilities/structures within the proposed trench limits shall be measured and paid for under bid items “Supporting Interfering Obstructions” and “Supporting Parallel Obstructions”.
- G. Excavation, disposal and reuse of controlled materials shall be measured and paid for under bid items “Controlled Materials Excavation”; “Disposal of Controlled Materials”; and “Management of Reusable Controlled Material”.
- H. Reuse of non-controlled materials shall be measured and paid for under bid item “Management of Reusable Non Controlled Material”.
- I. Dewatering shall be paid for under bid item “Handling Contaminated Groundwater Discharges to Sanitary Sewer”.
- J. Sheet piling and Shoring shall be measured and paid for under bid items “Timber Sheet piling” or “Steel Sheet piling”.

K.

Item 69: 30 inch Ductile Iron Pressure Force Main - Sub-Aqueous Crossing

- A. This Item shall be measured for payment by the unit price “Per Linear Foot” for the number of linear feet of pipe furnished and installed from the “Horizontal Bend with Thrust Block” at Sta. 206+20 +/- to the “22.5 Vertical Bend w/ Thrust Block” at Sta. 208+10 +/- as shown on the drawings. The ductile iron pipe shall be measured to the nearest 0.5 ft.
- B. Payment under this item shall include full compensation for streambed and earth excavation within the pay limits and trench support; furnishing, laying and jointing of force main pipe and fittings, joint restraints, adapters and accessories; concrete thrust blocks at horizontal and vertical upward bends; pipe encasements, pipe cradles, stop collars; pipe bedding; marker tape and tracer wire; earthen backfill and compaction; force main drain manhole, and all labor, materials, tools, equipment and incidentals necessary for the completion of the Item in accordance with the contract documents, complete, in place and accepted.

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- C. All excavated material is to be considered “controlled material” and will require transport to the WSA and paid for under the unit priced bid items “Controlled Materials Excavation” and “Disposal of Controlled Materials”. This material will not be reused.
- D. Excavation of unsuitable trench bottom material and screened gravel backfill shall be measured and paid for under bid item “Earth Excavation and Screened Gravel BELOW Normal Grade.
- E. Rock Excavation, disposal and backfill as encountered shall be measured and paid for under bid item “Rock Excavation, Disposal and Backfill”.
- F. Dewatering shall be paid for under bid item “Handling Contaminated Groundwater Discharges to Surface Sewer – Sub Aqueous Stream Crossing”.
- G. Sheet piling and Shoring shall be measured and paid for under bid items “Timber Sheet piling” or “Steel Sheet piling”.
- H. Wetlands restoration shall be measured and paid for under bid item “Wetland Plantings for Shrubs, Seedlings, Vines and Ground Cover Plants”.

I.

- J. The bidder’s attention is directed to Exhibit “E” City of Middletown Inland Wetlands and Watercourses Agency Permit Requirements”.
- K. The bidder’s attention is directed to Exhibit “F1”- U.S. Army Corps of Engineer Category 2 Programmatic General Permit Approval Letter: (August 8, 2013).
- L. The bidder’s attention is directed to Exhibit “F2” State of CT Department of Energy and Environmental Protection Permits, inclusive of all General and Individual Permits, for permit conditions influencing methods and techniques of construction, monitoring, final appearances, and management, handling and disposal of excavated material.

Item 70: Flow Meter Vault

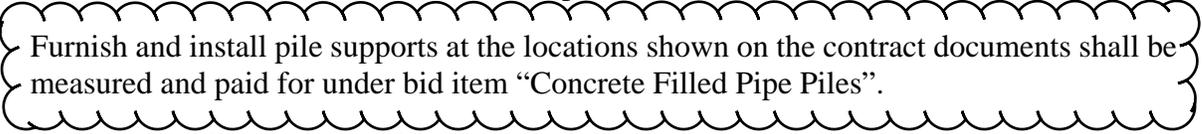
- A. This Item shall be at the contract lump sum price for “Flow Meter Vault” within the limits shown on the contract drawings.
- B. Payment under this item shall include full compensation for earth excavation; removal and disposal of existing abandoned utilities/structures within the proposed limits of construction, furnishing and installing a precast concrete structure including screened gravel base and geotextile; base sections, risers, and top sections; joint sealants; ladders and safety pole extensions; access doors and safety grates; vent pipes and painting; interior

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or by means of satisfactorily installed City approved meters. Quantities of water wasted will not be paid.

- B. Payment under this Item will be under the contract stated Allowance for this Item, and in accordance with "Section 01020 - Allowances" of these Specifications. Payment shall be made to cover cost of the actual number of 1,000 cubic feet of water, charged at the Owner's usage rate in effect at the time of the Work, for filling and testing the force main in accordance with the contract documents. The allowance amount may be increased or decreased depending upon the actual expenses incurred and approved by the Owner. No mark-up will be allowed.

Item 73: East Main Street Interceptor Sewer

- A. This Item shall be measured for payment by the unit price "Per Linear Foot" for the linear feet of pipe, furnished and installed to the lines and grades as shown on the drawings; including precast and doghouse style sanitary manholes, frames and covers, from SMH-111 to SMH-105. The PVC pipe shall be measured to the nearest 0.5 ft.
- B. Payment under this Item shall include full compensation for earth excavation and trench support; removal and disposal of existing abandoned utilities/structures within the proposed trench limits, furnishing and installing sanitary manholes shown on the drawings, ~~furnishing, laying and jointing gravity sewer pipe and fittings, adapters and accessories; pipe encasements, pipe cradles, stop collars; pipe bedding; marker tape; earthen backfill and compaction, disposal of surplus excavated non-controlled materials; cleaning and televising new pipe, and all labor, materials, tools, equipment and incidentals necessary for the completion of the Item in accordance with the contract documents, complete, in place and accepted.~~
- C. Payment for SMH 105 shall be under the bid item "36 inch River Road Sewer"
- D. Excavation of unsuitable trench bottom material and screened gravel backfill shall be measured and compensated for under bid item "Earth Excavation and Screened Gravel BELOW Normal Grade.
- E. Rock Excavation, disposal and backfill as encountered shall be measured and compensated for under bid item "Rock Excavation, Disposal and Backfill".
- F.  Furnish and install pile supports at the locations shown on the contract documents shall be measured and paid for under bid item "Concrete Filled Pipe Piles".
- G. Maintaining the existing 36 inch East Main Street Interceptor Sewer throughout the duration of construction of this bid item shall be paid for under bid item "Maintain Sewer Flows (Bypassing) – Maple Street Gravity Sewer and East Main St. Interceptor Sewer".
- H. Abandonment of the existing 36-inch PVC East Main Street Interceptor Sewer shall be

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paid for under bid item “Selective Demolition, Exclusive of Work Related to ACM, PCB Containing Materials < 50 PPM and Universal Waste Reclamation”.

Item 74: Maple Street Sewer

- A. This Item shall be measured for payment by the unit price “Per Linear Foot” for the linear feet of pipe, furnished and installed to the lines and grades as shown on the drawings, including all sanitary manholes from SMH 118 to SMH 109, complete, in place, and accepted. The PVC pipe shall be measured to the nearest 0.5 ft.
- B. Payment under this Item shall include full compensation for earth excavation and trench support; removal and disposal of existing abandoned utilities/structures within the proposed trench limits; furnishing and installing all sanitary manholes shown on the drawings, furnishing, laying, and jointing of gravity sewer pipe and fittings, adapters and accessories, pipe encasements, pipe cradles, stop collars; pipe bedding; marker tape; earthen backfill and compaction, disposal of surplus excavated non-controlled materials; cleaning and televising new pipe, and all labor, materials, tools, equipment and incidentals necessary for the completion of the Item in accordance with the contract documents, complete, in place and accepted.
- C. Payment for SMH 109 shall be measured and paid for under “East Main Street Interceptor Sewer”.
- D. Excavation of unsuitable trench bottom material and screened gravel backfill shall be measured and compensated for under bid item “Earth Excavation and Screened Gravel BELOW Normal Grade.
- E. Rock Excavation, disposal and backfill as encountered shall be measured and compensated for under bid item “Rock Excavation, Disposal and Backfill”.
- F. Maintaining the existing 10 inch gravity sewer throughout the duration of construction of this bid item shall be paid for under bid item “Maintain Sewer Flows (Bypassing) – Maple Street Gravity Sewer and East Main St. Interceptor Sewer”.
- G. Abandonment of the existing 10 inch PVC gravity sewer shall be paid for under bid item “Selective Demolition, Exclusive of Work Related to ACM, PCB Containing Materials < 50 PPM and Universal Waste Reclamation”.

Item 75: 30 inch - River Road Sewer

- A. This Item shall be measured for payment by the unit price “Per Linear Foot” for the linear feet of pipe, furnished and installed to the lines and grades as shown on the drawings, including all sanitary manholes, from SMH 102 to SMH 103, complete, in place, and accepted. The ductile iron pipe shall be measured to the nearest 0.5 ft.

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- B. Payment under this Item shall include full compensation for earth excavation and trench support; removal and disposal of existing abandoned utilities/structures within the proposed trench limits; furnishing and installing sanitary manhole 102, furnishing, laying, and jointing of pipe and fittings, adapters and accessories; pipe encasements, pipe cradles, stop collars; pipe bedding; marker tape; tracer wire; earthen backfill and compaction; disposal of surplus excavated non-controlled materials; cleaning and televising new pipe, and all labor, materials, tools, equipment and incidentals necessary for the completion of the Item in accordance with the contract documents, complete, in place and accepted.
- C. Payment for SMH 103 shall be under the bid item "42 inch River Road Sewer".
- D. Excavation of unsuitable trench bottom material and screened gravel backfill shall be measured and compensated for under bid item "Earth Excavation and Screened Gravel BELOW Normal Grade.
- E. Rock Excavation, disposal and backfill as encountered shall be measured and compensated for under bid item "Rock Excavation, Disposal and Backfill".
- F. Maintaining the existing 30 inch gravity sewer throughout the duration of construction of this bid item shall be paid for under bid item "Maintain Sewer Flows (Bypassing) – 42 inch River Road Interceptor Sewer"

Item 76: 36 Inch - River Road Sewer

- A. This Item shall be measured for payment by the unit price "Per Linear Foot" for the linear feet of pipe, furnished and installed to the lines and grades as shown on the drawings, including all sanitary manholes, from SMH 104 to SMH 105; AND, from SMH 105 to the pump station inlet works/treatment room, complete, in place, and accepted. The ductile iron pipe shall be measured to the nearest 0.5 ft.
- B. Payment under this item shall include full compensation for earth excavation and trench support; removal and disposal of existing abandoned utilities/structures within the proposed trench limits; furnishing and installing pile supported sanitary manhole 104 and pile supported sanitary manhole 105, furnishing, laying, and jointing of 36 inch pipe and 48 inch pipe from SMH 105 to pump station inlet works/treatment room, all fittings, adapters and accessories; pipe encasements, pipe cradles, stop collars, pipe bedding; marker tape; tracer wire; earthen backfill and compaction; disposal of surplus excavated non-controlled materials; cleaning and televising new pipe, and all labor, materials, tools, equipment and incidentals necessary for the completion of the Item in accordance with the contract documents, complete, in place and accepted.
- C. Excavation of unsuitable trench bottom material and screened gravel backfill shall be measured and compensated for under bid item "Earth Excavation and Screened Gravel

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BELOW Normal Grade.

- D. Rock Excavation, disposal and backfill as encountered shall be measured and compensated for under bid item "Rock Excavation, Disposal and Backfill".
- E. Furnish and install concrete-filled pipe pile at the locations shown on the contract documents shall be measured and paid for under bid item "Concrete Filled Pipe Piles".
- F.
- G. Furnish and install cast iron slide gate SG-1 and wall thimble will not be measured for payment and shall be paid for under other applicable lump sum bid items.

Item 77: 42 inch Sewer - River Road

- A. This Item shall be measured for payment by the unit price "Per Linear Foot" for the linear feet of pipe, furnished and installed to the lines and grades as shown on the drawings, including all sanitary manholes, from SMH 101 to SMH 103. The ductile iron pipe shall be measured to the nearest 0.5 ft.
- B. Payment under this item shall include full compensation for earth excavation and trench support; removal and disposal of existing abandoned utilities/structures within the proposed trench limits; furnishing and installing sanitary manholes 101 and 103, furnishing, laying, and jointing of pipe and fittings, adapters and accessories; pipe encasements, pipe cradles, stop collars; pipe bedding; marker tape; tracer wire; earthen backfill and compaction; disposal of surplus excavated non-controlled materials; cleaning and televising new pipe, and all labor, materials, tools, equipment and incidentals necessary for the completion of the Item in accordance with the contract documents
- C. Excavation of unsuitable trench bottom material and screened gravel backfill shall be measured and compensated for under bid item "Earth Excavation and Screened Gravel BELOW Normal Grade.
- D. Rock Excavation, disposal and backfill as encountered shall be measured and compensated for under bid item "Rock Excavation, Disposal and Backfill".
- E. Maintaining the existing 42 inch sewer into the POTW throughout the duration of construction of this bid item shall be paid for under bid item "Maintain Sewer Flows (Bypassing) – 42 inch River Road Interceptor Sewer"

F.

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Item 84: Division 3 – Structural Concrete

- A. This item will be paid for at the contract lump sum price for “Structural Concrete”.
- B. Payment under this item shall include full compensation for all labor, equipment, plant, tools, supplies, materials, forms, bracing, mixing, delivering, placing, compacting, furnishing, curing and protection, incidental and necessary to complete the concrete formwork, concrete reinforcement, and cast-in-place concrete in accordance with the specifications, the structural drawings and as directed by the Engineer, complete, in place and accepted.
- C. Precast Concrete Structures will be paid for separately under bid item “Flow Meter Vault” and in various unit priced gravity sewer bid items and Division 2 Site Work.
- D. No separate payment will be made for any incidental items of work and/or materials that are inherently required to fulfill the intent of this Contract or required as a result of the Contractor’s construction sequencing to complete the work as specified and as indicated.

Item 85: Miscellaneous Concrete

- A. “Miscellaneous Concrete” shall be measured for payment by the number of cubic yards of plain Portland cement-concrete for additional concrete beyond what is shown on the drawings.
- B. Payment shall constitute full compensation for all equipment, plant, tools, materials, forms, bracing, mixing, delivering, placing, compacting, furnishing, curing and protection, installing miscellaneous materials to be embedded in concrete and for all labor, and incidentals necessary to complete the item in accordance with the specifications, the drawings and as directed by the Engineer, complete, in place and accepted.
- C. No payment will be made for concrete until it has been satisfactorily cured.
- D.

Item 86: Division 4 – Masonry

- A. This item will be paid for at the contract lump sum price for “Masonry”.
- B. Payment under this item shall include full compensation for all labor, equipment, plant, tools, supplies, materials, incidental and necessary to complete the work in accordance with the specifications, the architectural drawings and as directed by the Architect, complete in place and accepted.