

**ADDENDUM #2**

**TO**

**CITY OF SOUTH PORTLAND, MAINE**

**THORNTON HEIGHTS SEWER SEPARATION**

**PHASE 3**

**(BID# 22-16 )**

**February 1, 2016**

**Prepared By:**

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## ADDENDUM NO. 2

### THORNTON HEIGHTS SEWER SEPARATION PHASE 3

#### BID #22-16

The Contract Documents govern all aspects of the project. Informal discussions held during the Pre-Bid Conference, by telephone or email are informational only. All official changes to the Contract Documents are made only by addenda. The following changes and additional information are hereby made a part of the Contract Documents.

**BIDDER QUESTIONS:** Notice is hereby given that Addendum #2 provides clarification for questions asked by Bidders after the Pre-Bid meeting held on January 19, 2016 and prior to the Bid Opening Date of February 9, 2016.

1. Question: For sewer service connections, would insert-a-tee's be allowed?

**Answer: Insert-a-tees are not allowed for sewer service connections. The Contractor's bid shall be based on the wye and elbow fitting connection shown on the details.**

2. Question: Looking at the park, it states we are to supply and install a painted and etched granite sign as part of the lump sum portion of the park restoration bid item. I don't see any detail on the sign itself, plan sheet 72 calls for it being 10' long, but no thickness is given and also what is on the sign is missing. Can we get a detail on the sign?

**Answer: The park sign has been deleted from the project. This item will be installed by others in the future. DELETE Item 905.5 in the bid form and specifications.**

3. Is any of the Hot Mix Asphalt in the Portland Water District section of the contract subject to an asphalt escalator? Some of the Hot Mix Asphalt is still incidental to the pipe but W26 & W27 are paid. I see the 403.207 & 403.210 items are subject to the escalator. I see the sidewalk and driveway items are not.

**Answer: The pavement items associated with the Portland Water District Contract (W23 and W24) shall be subject to the provisions of MaineDOT Section 108 Payment (Asphalt Escalator). Measurement and payment shall be as contained in Portland Water District Contract Documents.**

**Driveways and sidewalk pavement is incidental to the square yard unit price for sidewalk and driveway items and is not subject to the escalator.**

4. Could you provide a square-foot quantity or individual inventory of what signs are to be replaced under item 645.107 Furnish & Install New Reg, Warning, conf, & Route Signs?

**Answer: The item 645.107 Furnish and Install New Reg, Warning, Conf, Route Signs has been deleted from the project. Delete item 645.107 from the bid form and specifications.**

**SPECIFICATIONS:** Notice is hereby given that the project specifications have been updated and replacement pages/sections issued herewith. Replacement pages have a revised date of February 1, 2016 listed in the page footer as well as a reference to Addendum #2.

Division 0 – Bidding and Contract Requirements

1. A revised Section 00310 Bid Form (Attachment 1) dated February 1, 2016 is attached to this addendum, which includes the following updates:

Part 1 of the Bid Form has been revised based on the following:

- DELETE Item 645.107 Furnish and Install New Reg, Warning, Conf, Route Signs
- DELETE Item 905.5 Decorative Granite Sign with base

Part 2 of the Bid Form has been revised based on the following:

Abstract: Ductile Iron Water Main will be measured and paid for by the linear foot, regardless of installation (single road trench with trench cap or within curb to curb repave areas). Pavement removal for water main installation shall be measured and paid for as a plan quantity based on the Portland Water District pay width. Hot mix asphalt (19.0mm and 9.5mm), for both trench and road repave areas will be measured and paid for by the ton based on the Portland Water District pay width and is subject to the MDOT Asphalt Escalator.

- Delete Items W-1 thru W-3 (Ductile Iron Water Main – Trench)
- Remaining Items (W-4 thru W-29) have been renumbered W-1 thru W-26, respectively.
- Item W-1 (12-inch Ductile Iron Water Main): Quantity updated to 2,700 linear feet
- Item W-2 (8-inch Ductile Iron Water Main): Quantity updated to 1,275 linear feet
- Item W-3 (4-inch Ductile Iron Water Main): Quantity updated to 1,620 linear feet
- Item W-21 (Roadway Pavement Removal – Plan Quantity): Quantity updated to 5,595 square yard
- Item W-23 (HMA Binder Course – 19.0 mm): Quantity updated to 880 tons
- Item W-24 (HMA Binder Course – 9.5 mm): Quantity updated to 520 tons

Appendix A – Portland Water District Contract Documents

1. A revised Section 01151 Measurement and Payment is enclosed revising method of measurement and payment sections for the items presented in the above abstract and revisions to bid form.

# **ATTACHMENT 1**

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**Revised Section 00310 Bid Form  
February 1, 2016**

**SECTION 00310**

**BID FORM**

Thornton Heights Sewer Separation Phase 3

BID# 22-16

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**ARTICLE 1 – BID RECIPIENT**

1.01 This Bid is submitted to:

PROJECT IDENTIFICATION: Thornton Heights Sewer Separation Phase 3  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Bid# 22-16 )

THIS BID IS SUBMITTED TO: City of South Portland  
\_\_\_\_\_  
25 Cottage Road  
\_\_\_\_\_  
South Portland, Maine 04106  
\_\_\_\_\_

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

**ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS**

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

**ARTICLE 3 – BIDDER’S REPRESENTATIONS**

3.01 In submitting this Bid, Bidder represents that:  
A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Addendum, Date</u>
<b>1</b>	<b>January 22, 2016</b>
<b>2</b>	<b>February 1, 2016</b>
_____	_____
_____	_____

- B. Bidder acknowledges that his Bid will be rejected unless the Issuing Office has a record that the Bidder has purchased as least one sect of paper Bidding Documents from the Issuing Office
- C. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- D. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- E. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.
- F. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- G. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- H. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- I. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- K. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without

exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

- L. Bidder has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the Contract Documents.
- M. Bidder understands that the Owner reserves the right to reject any or all bids.
- N. Bidder understands that, if the contract is to be awarded, it will be awarded to the lowest responsive, responsible bidder whose evaluation by Owner indicates to Owner that the award will be in the best interests of the Project.
- O. The bid security attached in the amount of five percent of the Total Bid is to become the property of the Owner in the event the contract and bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

#### **ARTICLE 4 – BIDDER’S CERTIFICATION**

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
  - 1. “corrupt practice” means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
  - 2. “fraudulent practice” means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
  - 3. “collusive practice” means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
  - 4. “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.



## **ARTICLE 5 – BASIS OF BID**

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

**BID FORM  
PART 1  
THORNTON HEIGHTS SEWER SEPARATION PROJECT  
PHASE 3  
SOUTH PORTLAND MAINE**

Bid Item	Spec No. Pay Item	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
				Dollars	Cents	Dollars	Cents
1	201.24	EA	Remove Street Tree and Stump @ _____ _____				
		9.00	Per Each				
2	202.111	SY	Remove concrete/bituminous sidewalk and curb @ _____ _____				
		850.00	Per Square Yard				
3	202.15	EA	Remove Exist Manhole or Catch Basin @ _____ _____				
		7.00	Per Each				
4	202.2	SY	Remove Bituminous Concrete Pavement (Plan Quantity) @ _____ _____				
		13060.00	Per Square Yard				
5	202.2111	LS	Remove and/or Reset Sidewalk Surface Hardware @ _____ _____				
		1.00	Lump Sum				
6	203.2	CY	Common Excavation @ _____ _____				
		2120.00	Per Cubic Yard				
7	203.25	CY	Granular Borrow @ _____ _____				
		230.00	Per Cubic Yard				
8	203.35	CY	Crushed Stone (Overdepth) @ _____ _____				
		220.00	Per Cubic Yard				
9	206.061	CY	Structural Earth Excavation (Overdepth) @ _____ _____				
		220.00	Per Cubic Yard				
10	206.07	CY	Structural Rock Excavation @ _____ _____				
		870.00	Per Cubic Yard				
11	304.10	CY	Agg Subbase Course Type D @ _____ _____				
		4030.00	Per Cubic Yard				
12	304.14	CY	Agg Base Course Type A @ _____ _____				
		1710.00	Per Cubic Yard				
13	312.10	SY	Bituminous Driveway Apron @ _____ _____				
		2410.00	Per Square Yard				
14	403.207	T	Hot Mix Asphalt 19.0 MM @ _____ _____				
		1870.00	Per Ton				
15	403.210	T	Hot Mix Asphalt 9.5mm @ _____ _____				
		1190.00	Per Ton				

**BID FORM  
PART 1  
THORNTON HEIGHTS SEWER SEPARATION PROJECT  
PHASE 3  
SOUTH PORTLAND MAINE**

Bid Item	Spec No. Pay Item	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
				Dollars	Cents	Dollars	Cents
16	603.159	LF	12-inch Diameter PVC or HDPE Storm Drain Pipe @ _____				
		2935.00	Per Linear Foot				
17	603.169	LF	15-inch Diameter PVC or HDPE Storm Drain Pipe @ _____				
		1280.00	Per Linear Foot				
18	603.179	LF	18-inch Diameter PVC or HDPE Storm Drain Pipe @ _____				
		635.00	Per Linear Foot				
19	603.199	LF	24-inch Diameter PVC or HDPE Storm Drain Pipe @ _____				
		975.00	Per Linear Foot				
20	603.209	LF	30-inch Diameter PVC or HDPE Storm Drain Pipe @ _____				
		440.00	Per Linear Foot				
21	603.9	LF	Pipe Insulation @ _____				
		160.00	Per Linear Foot				
22	604.131	EA	4-foot Diameter Catch Basin @ _____				
		48.00	Per Each				
23	604.132	EA	5-foot Diameter Catch Basin @ _____				
		3.00	Per Each				
24	604.14	EA	30" Diameter Nyloplast Field Inlet @ _____				
		1.00	Per Each				
25	604.15	EA	4-foot Diameter Manhole @ _____				
		33.00	Per Each				
26	604.153	EA	5-foot Diameter Manhole @ _____				
		2.00	Per Each				
27	604.154	EA	6-foot Diameter Manhole @ _____				
		3.00	Per Each				
28	604.1561	EA	Transport & Install 8-foot Diameter Special Manhole (Sokokis St) @ _____				
		1.00	Per Each				
29	604.161	EA	Modify Structure @ _____				
		19.00	Per Each				
30	604.18	EA	Adjusting Manhole or Structure to Grade @ _____				
		3.00	Per Each				

**BID FORM  
PART 1  
THORNTON HEIGHTS SEWER SEPARATION PROJECT  
PHASE 3  
SOUTH PORTLAND MAINE**

Bid Item	Spec No. Pay Item	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
				Dollars	Cents	Dollars	Cents
31	606.1	LF	Pedestrian Guardrail @ _____ _____				
		350.00	Per Linear Foot				
32	607.17	LF	Chainlink Fence 6-ft @ _____ _____				
		700.00	Per Linear Foot				
33	607.2326	EA	Chainlink Fence Gate @ _____ _____				
		1.00	Per Each				
34	607.24	LF	Remove and Reset Fence @ _____ _____				
		275.00	Per Linear Foot				
35	607.45	LF	Stockade Fence 6-ft @ _____ _____				
		240.00	Per Linear Foot				
36	608.08	SY	Reinforced Concrete Sidewalk @ _____ _____				
		80.00	Per Square Yard				
37	608.1	SY	Brick, Paver, Cobblestone Walk @ _____ _____				
		75.00	Per Square Yard				
38	608.26	SF	Curb Ramp Detectable Warning Field @ _____ _____				
		234.00	Per Square Foot				
39	608.50	SY	Bituminous Sidewalk @ _____ _____				
		1880.00	Per Square Yard				
40	608.60	SY	Stone Dust Walk @ _____ _____				
		980.00	Per Square Yard				
41	609.11	LF	Vertical Curb Type 1 @ _____ _____				
		20.00	Per Linear Foot				
42	609.12	LF	Vertical Curb Type 1 Circular @ _____ _____				
		25.00	Per Linear Foot				
43	609.21	LF	Slip Form Concrete Curb @ _____ _____				
		5825.00	Per Linear Foot				
44	609.234	EA	Terminal Curb Type 1 4-foot @ _____ _____				
		8.00	Per Each				
45	609.2341	EA	Terminal Curb Type 1 4-foot - Circular @ _____ _____				
		2.00	Per Each				

**BID FORM  
PART 1  
THORNTON HEIGHTS SEWER SEPARATION PROJECT  
PHASE 3  
SOUTH PORTLAND MAINE**

Bid Item	Spec No. Pay Item	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
				Dollars	Cents	Dollars	Cents
46	609.237	EA	Terminal Curb Type 1 7-foot @ _____				
		6.00	Per Each				
47	609.2371	EA	Terminal Curb Type 1 7-foot - Circular @ _____				
		3.00	Per Each				
48	610.08	LS	Plain Riprap @ _____				
		1.00	Lump Sum				
49	615.072	SY	Loam, Seed and Mulch @ _____				
		22200.00	Per Square Yard				
50	621.00	LS	Landscaping @ _____				
		1.00	Lump Sum				
51	624.10	EA	Benches @ _____				
		3.00	Per Each				
52	624.11	EA	Bicycle Post Rack @ _____				
		2.00	Per Each				
53	624.12	EA	Pedestrian Foot Bridge @ _____				
		1.00	Per Each				
54	624.13	EA	Hinged Bollard @ _____				
		4.00	Per Each				
55	626.211	LF	1" Metallic Conduit @ _____				
		40.00	Per Linear Foot				
56	626.221	LF	1" Non-Metallic Conduit @ _____				
		1240.00	Per Linear Foot				
57	626.222	LF	1.5" Non-Metallic Conduit @ _____				
		200.00	Per Linear Foot				
58	626.32	EA	24" Foundation @ _____				
		2.00	Per Each				
59	627.7	LS	Pavement Markings @ _____				
		1.00	Lump Sum				
60	629.05	HR	Hand Labor, Straight Time @ _____				
		90.00	Per Hour				

**BID FORM  
PART 1  
THORNTON HEIGHTS SEWER SEPARATION PROJECT  
PHASE 3  
SOUTH PORTLAND MAINE**

Bid Item	Spec No. Pay Item	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
				Dollars	Cents	Dollars	Cents
61	629.06	HR	Mason, Straight Time @ _____				
		90.00	Per Hour				
62	631.105	HR	Air Tool and Compressor (inc operator) @ _____				
		90.00	Per Hour				
63	631.12	HR	All Purpose Excavator (inc operator) @ _____				
		90.00	Per Hour				
64	631.121	HR	Heavy Duty Excavator (inc operator) @ _____				
		90.00	Per Hour				
65	631.13	HR	Bulldozer (inc operator) @ _____				
		90.00	Per Hour				
66	631.172	HR	Truck - Large or Small (inc operator) @ _____				
		90.00	Per Hour				
67	631.22	HR	Front End Loader (inc operator) @ _____				
		90.00	Per Hour				
68	631.36	HR	Foreman, Straight Time @ _____				
		90.00	Per Hour				
69	634.04	LF	Cable Installation @ _____				
		1480.00	Per Linear Foot				
70	634.08	EA	Electrical Service @ _____				
		1.00	Per Each				
71	634.2101	EA	Landscape Lighting Fixture - Type A @ _____				
		2.00	Per Each				
72	634.2102	EA	Conventional Light Standard - Type B @ _____				
		2.00	Per Each				
73	645.106	LS	Demount and Reinstall Sign @ _____				
		1.00	Lump Sum				
74	652.38	LS	Flagger @ _____				
		1.00	Lump Sum				
75	652.39	LS	Work Zone Traffic Control @ _____				
		1.00	Lump Sum				

**BID FORM  
PART 1  
THORNTON HEIGHTS SEWER SEPARATION PROJECT  
PHASE 3  
SOUTH PORTLAND MAINE**

Bid Item	Spec No. Pay Item	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
				Dollars	Cents	Dollars	Cents
76	656.75	LS	Temp. Soil and Water Pollution Control @ _____				
		1.00	Lump Sum				
77	801.03	VF	Test Pits @ _____				
		500.00	Per Vertical Foot				
78	803.131	LF	8-inch Diameter PVC SDR35 Sewer Pipe @ _____				
		4150.00	Per Linear Foot				
79	803.132	LF	12-inch Diameter PVC SDR35 Sewer Pipe @ _____				
		800.00	Per Linear Foot				
80	803.134	LF	4"/6" Service Leads @ _____				
		580.00	Per Linear Foot				
81	803.139	LF	Sewer Lateral Adjustment @ _____				
		210.00	Per Linear Foot				
82	825.58	LF	Water Service Relocation @ _____				
		50.00	Per Linear Foot				
83	825.65	LS	Water Meter Pit @ _____				
		1.00	Lump Sum				
84	904.1	LS	Gravel Wetland GW-1, Memorial Middle School @ _____				
		1.00	Lump Sum				
85	904.2	LS	Gravel Wetland GW-2, Wythburn Road @ _____				
		1.00	Lump Sum				
86	905.1	LS	Park Restoration and Construction @ _____				
		1.00	Lump Sum				
87	905.2	EA	Park Wall "A" @ _____				
		2.00	Per Each				
88	905.3	EA	Park Wall "B" @ _____				
		2.00	Per Each				
89	905.4	EA	Park Wall "C" @ _____				
		1.00	Per Each				

**BID FORM  
PART 1  
THORNTON HEIGHTS SEWER SEPARATION PROJECT  
PHASE 3  
SOUTH PORTLAND MAINE**

Bid Item	Spec No. Pay Item	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
				Dollars	Cents	Dollars	Cents
90	659.1	LS  1.00	Mobilization and General Conditions @ _____ Lump Sum				

**TOTAL PRICE**

TOTAL AMOUNT OF BASE BID, WRITTEN AND IN FIGURES BASED ON ESTIMATE OF QUANTITIES. <hr style="border: 0; border-top: 1px solid black; margin: 2px 0;"/> <hr style="border: 0; border-top: 1px solid black; margin: 2px 0;"/>	
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**BID SCHEDULE**  
**PART 2- PORTLAND WATER DISTRICT**  
**THORNTON HEIGHTS**  
**PHASE 3**  
**WATER MAIN REPLACEMENTS**

00310-12  
 BID FORM

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
			Dollars	Cents	Dollars	Cents
W1	LF	12-in Ductile Iron Water Main @ _____ _____				
	2700.00	Per Linear Foot				
W2	LF	8-in Ductile Iron Water Main @ _____ _____				
	1275.00	Per Linear Foot				
W3	LF	4-in Ductile Iron Water Main @ _____ _____				
	1620.00	Per Linear Foot				
W4	LS	Hydrant - Ardsley Street @ _____ _____				
	1.00	Lump Sum				
W5	LS	Hydrant - Station 20+10 Wythburn @ _____ _____				
	1.00	Lump Sum				
W6	LS	Hydrant - Station 25+10 Wythburn @ _____ _____				
	1.00	Lump Sum				
W7	LS	Hydrant - Station 2+45 Southwell @ _____ _____				
	1.00	Lump Sum				
W8	EA	8-Inch Cut-In Gate Valve @ _____ _____				
	1.00	Per Each				
W9	EA	12-inch Gate Valve @ _____ _____				
	4.00	Per Each				
W10	EA	8-inch Gate Valve @ _____ _____				
	4.00	Per Each				

**BID SCHEDULE**  
**PART 2- PORTLAND WATER DISTRICT**  
**THORNTON HEIGHTS**  
**PHASE 3**  
**WATER MAIN REPLACEMENTS**

00310-13  
 BID FORM

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
			Dollars	Cents	Dollars	Cents
W11	EA	4-inch Gate Valve @ _____				
	6.00	Per Each				
W12	EA	2-inch Blowoff @ _____				
	3.00	Per Each				
W13	EA	1-inch Air Release Valve @ _____				
	9.00	Per Each				
W14	EA	1-inch Copper Service - Shortside @ _____				
	30.00	Per Each				
W15	EA	1-inch Copper Service - Longside @ _____				
	65.00	Per Each				
W16	EA	1-inch Copper Service - Reconnect @ _____				
	20.00	Per Each				
W17	EA	1-inch Copper Service - 9 Exton Street @ _____				
	1.00	Per Each				
W18	CY	Gravel Borrow @ _____				
	65.00	Per Cubic Yard				
W19	CY	Unsuitable Material Excavated Below Grade @ _____				
	65.00	Per Cubic Yard				
W20	CY	Rock Excavation @ _____				
	204.00	Per Cubic Yard				

**BID SCHEDULE**  
**PART 2- PORTLAND WATER DISTRICT**  
**THORNTON HEIGHTS**  
**PHASE 3**  
**WATER MAIN REPLACEMENTS**

00310-14  
 BID FORM

Item No.	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
			Dollars	Cents	Dollars	Cents
W21	SY	Roadway Pavement Removal - Plan Quantity @ _____				
	5595.00	Per Square Yard				
W22	CY	Road Repave Shim Gravel - Plan Quantity @ _____				
	106.00	Per Cubic Yard				
W23	T	HMA Binder Course - 19MM @ _____				
	880.00	Per Ton				
W24	T	HMA Surface Course - 9.5MM @ _____				
	520.00	Per Ton				
W25	LS	Work Zone Traffic Control @ _____				
	1.00	Lump Sum				
W26	LS	Flaggers @ _____				
	1.00	Lump Sum				

TOTAL COST

TOTAL AMOUNT OF BASE BID, WRITTEN AND IN FIGURES BASED ON ESTIMATE OF QUANTITIES.  <hr/> <hr/> <hr/>	
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**BID FORM  
PART 3  
THORNTON HEIGHTS SEWER SEPARATION PROJECT  
PHASE 3  
SOUTH PORTLAND MAINE**

Bid Item	Spec No. Pay Item	Quantity	Item with Unit Bid Price Written in Words	Unit Price		Total Price	
				Dollars	Cents	Dollars	Cents
Alt 1	904.1A	LS	Add/Deduct Alternate 1A Geosynthetic Clay Liner, GW-1 @ _____				
		1.00	Lump Sum				
Alt 2	904.1B	LS	Add/Deduct Alternate 1B HDPE Liner, GW-1 @ _____				
		1.00	Lump Sum				
Alt 3	904.2A	LS	Add/Deduct Alternate 2A Geosynthetic Clay Liner, GW-2 @ _____				
		1.00	Lump Sum				
Alt 4	904.2B	LS	Add/Deduct Alternate 2B HDPE Liner, GW-2 @ _____				
		1.00	Lump Sum				

SUBTOTAL PART 1: Total of Items 1 through 91 above

	(\$ _____ )
(use words)	(Use Figures)

SUBTOTAL PART 2: Total of Items W1 through W29 above

	(\$ _____ )
(use words)	(Use Figures)

**TOTAL BASE BID** : Total of All Items Part 1 and Part 2

	(\$ _____ )
(use words)	(Use Figures)

ALTERNATE 1 – Geosynthetic Clay Liner, GW-1

	(\$ _____ )
(use words)	(Use Figures with “+ or –“)

ALTERNATE 2 – HDPE Liner, GW-1

	(\$ _____ )
(use words)	(Use Figures with “+ or –“)

ALTERNATE 3 – Geosynthetic Clay Liner, GW-2

	(\$ _____ )
(use words)	(Use Figures with “+ or –“)

ALTERNATE 4 – HDPE Liner, GW-2

	(\$ _____ )
(use words)	(Use Figures with “+ or –“)

**ARTICLE 6 – TIME OF COMPLETION**

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time.

#### **ARTICLE 7 – ATTACHMENTS TO THIS BID**

7.01 The following documents are submitted with and made a condition of this Bid:

- A. This Bid Form in its entirety;
- B. Required Bid security;
- C. Required Experience and Qualifications Statement (Section 00405) with supporting data including a letter of bonding capacity;
- A. EPA Form 6100-4 “DBE Program Subcontractor Utilization Form” as part of the prime contractor’s bid or proposal package to the Owner. Note, only DBE subcontractors should be listed. If no DBE subcontractors are to be used, the contractor must still complete and submit the form. (Copy Attached in the Supplemental Conditions)
- D. EPA Form 6100-3, “DBE Program Subcontractor Performance Form’ (copy attached in the Supplemental Conditions) completed by each of the Contractor’s proposed DBE subcontractors.

#### **ARTICLE 8 – DEFINED TERMS**

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

**ARTICLE 9 – BID SUBMITTAL**

BIDDER: *[Indicate correct name of bidding entity]*

By:

*[Signature]* \_\_\_\_\_

*[Printed name]* \_\_\_\_\_

*(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)*

Attest:

*[Signature]* \_\_\_\_\_

*[Printed name]* \_\_\_\_\_

Title: \_\_\_\_\_

Submittal Date: \_\_\_\_\_

Address for giving notices:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

Contact Name and e-mail  
address: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Bidder's License No.: \_\_\_\_\_

*(where applicable)*

# **ATTACHMENT 2**

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## **Revised Section 01151 Measurement and Payment February 1, 2016**



## SECTION 01151 – MEASUREMENT AND PAYMENT

### PART 1: GENERAL

#### 1.1 METHOD OF MEASUREMENT AND BASIS OF PAYMENT:

- A. All measurements for payments will be based on completed work performed in strict accordance with the drawings and specifications, and on the contract bidding and payment item schedules. All work completed under the contract will be measured by the ENGINEER according to the methods outlined below. In cases where the payment clause in the specifications relating to any unit or lump sum price stated in the contract requires that the said unit or lump sum price cover and be considered compensation for certain work or material essential to the item, this same item will not be measured or paid for under any other pay item which may appear elsewhere in the specifications.

#### 1.2 INCIDENTAL WORK

- A. Incidental work items for which separate payment is not made include (but are not limited to) the following items:
1. Temporary water facilities and associated appurtenances.
  2. Clearing, grubbing and stripping
  3. Dust control
  4. Dewatering
  5. Clean-up
  6. Erosion control
  7. Loaming and seeding
  8. Restoration of property
  9. Crossing other utilities
  10. Fittings – crosses, tees, bends, sleeves, etc. shown on the drawings
  11. Bonds, insurance, shop drawings, warranties and other submittals required by the contract documents
  12. Repair and replacement of utilities damaged by construction activities and corresponding proper disposal of removed materials
  13. Temporary construction and other facilities not to be permanently incorporated into the work necessary for construction sequencing and maintenance of operations.
  14. Permits not otherwise paid for or provided by the Owner
  15. Facilities for the storage of materials to be incorporated into the Work
  16. Mobilization/demobilization
  17. Test pits to determine existing utility locations, soil conditions, and as required to complete the project
  18. Pavement markings

19. Removal of existing pavement, concrete and/or cobblestones, unless stated otherwise.

PART 2: PAYMENT ITEMS:

2.1 ITEM NOS. W-1 and W-3– Ductile Iron Water Main

- A. Method of Measurement: Linear feet as measured along the centerline of the pipe for the actual number of linear feet of pipe installed, including fittings within the project limits.
- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for clearing, excavating, shoring and bracing, dewatering, pipe, fittings, bedding, laying and jointing, testing, removing and disposing of existing pipe and appurtenances that are being replaced, connections to existing mains and services that are remaining, backfilling, compaction, aggregate subbase, aggregate base, and associated work as specified and shown on the Drawings. Separate payment shall be made for shim gravel only within the portion of a roadway where existing pavement is proposed to be removed edge to edge (Wythburn Road, Southwell Avenue, Mardale Avenue, Herford Avenue, Kirkland Avenue, Thirlmere Avenue, and portions of Keswick Road). Separate measurement and payment shall be made for base course bituminous pavement and surface course bituminous pavement.
- C. Schedule of Payment: Installation - 75%, Testing - 15%, Pavement – 10%

2.2 ITEM NOS. W-4 through W-7 – Hydrants

- A. Method of Measurement: Lump Sum
- B. Basis of Payment: Payment of the lump sum price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, hydrant tee, 6-inch hydrant control valve and valve box, 6-inch ductile iron pipe, hydrant, fittings, removal and disposal of existing hydrant and appurtenances, thrust blocks, backfill, testing, cleanup (loam/seed and/or sidewalk restoration), and associated work as specified and shown on Drawings.
- C. Schedule of Payment: Installation - 100%

2.3 ITEM NOS. W-8, through W-11 – Gate Valves

- A. Method of Measurement: Actual number installed
- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, valve, pipe and sleeves for cut-in valves, valve box, backfill, compaction, testing, aggregate subbase, aggregate base, base course bituminous pavement, surface course bituminous pavement, cleanup, and associated work as specified and shown on Drawings.
- C. Schedule of Payment: Installation - 75%; Testing - 15%, Pavement – 10%

2.4 ITEM NO. W-12 – 2-inch Blowoff

- A. Method of Measurement: Actual number installed
- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, corporation, valve, fittings, valve boxes, backfill, testing, cleanup, and associated work as specified and shown on the Drawings.
- C. Schedule of Payment: Installation – 85%; Testing – 15%

2.5 ITEM NO. W-13 – 1-inch Air Release Valve

- A. Method of Measurement: Actual number installed
- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, corporation, valve, fittings, valve boxes, backfill, testing, cleanup, and associated work as specified and shown on the Drawings.
- C. Schedule of Payment: Installation – 85%; Testing – 15%

2.6 ITEM NO. W-14 through W-17- Copper Water Services

- A. Method of Measurement: Actual number installed or reconnected
- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavating, shoring and bracing, dewatering, copper pipe, fittings (corporation and curb stop), service boxes, laying, jointing, bedding, backfilling, compaction, testing, removal and disposing of existing pipe and appurtenances that are being replaced, aggregate subbase, aggregate base, base course bituminous pavement, surface course bituminous pavement, cleanup (loam/seed and/or sidewalk restoration), and associated work as specified and shown on the

Drawings. Payment for W-20 Water Service 9 Exton Street shall include all restoration costs, including but not limited to replacement of roadway pavement, driveway pavement, curbing, lawn areas.

- C. Schedule of Payment: Installation - 75%, Testing - 15%, Pavement -10%

## 2.7 ITEM NO. W-18 – Gravel Borrow

- A. Method of Measurement: Cubic yard as measured in place for the actual number of cubic yards of gravel borrow installed within the pay limits shown on the Drawings and directed by the ENGINEER.
- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for installation and compaction of gravel borrow used to replace unsuitable excavated material within the limits shown on the drawings or as directed by the ENGINEER.
- C. Schedule of Payment: Installation - 100%

## 2.8 ITEM NO, W-19 - Unsuitable Material Excavated Below Trench Grade

- A. Method of Measurement: Cubic yard as measured in place prior to removal for the actual number of cubic yards excavated within the pay limits shown on the Drawings and directed by the ENGINEER.
- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for removing unsuitable material excavated below trench grade and replacing with granular bedding material as directed by the ENGINEER.
- C. Schedule of Payment: Installation – 100%

## 2.9 ITEM NO. W-20– Rock Excavation

- A. Method of Measurement: Cubic yard measured in place for the actual number of cubic yards of ledge removed within the pay limits shown on the drawings or as directed by the ENGINEER. Boulders less than two cubic yards in volume will not be measured for payment.
- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for drilling, hammering, excavating, shoring and bracing, dewatering, replacement backfill and associated work as specified and shown on the Drawings.
- C. Schedule of Payment: Excavation – 100%

2.10 ITEM NO. W-21 – Roadway Pavement Removal – Plan Quantity

- A. Method of Measurement: Square yard as measured along the centerline of the pipe multiplied by the PWD Contract paving limit width, installed within the project limits.
- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for cutting, removal and proper disposal of existing bituminous pavement, regardless of depth of existing pavement.
- C. Schedule of Payment: Removal – 100%

2.11 ITEM NO. W-22 – Roadway Repave Shim Gravel – Plan Quantity

- A. Method of Measurement: Cubic yard as measured along the centerline of the pipe multiplied by the PWD Contract paving limit width within the portion of a roadway where existing pavement is proposed to be removed edge to edge (Wythburn Road, Southwell Avenue, Mardale Avenue, Herford Avenue, Kirkland Avenue, Thirlmere Avenue and portions of Keswick Road), graded, and new pavement (binder and surface) is proposed edge to edge.
- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for installation grading, and compaction of Aggregate Base Course Crushed (MDOT 703.06a) used to adjust grade lines to reflect the limits shown on the drawings or as directed by the ENGINEER.
- C. Schedule of Payment: Installation – 100%

2.12 ITEM NO. W-23 and W-24 – HMA (19 MM and 9.5MM)

- A. Method of Measurement: The volume will be measured in place for the actual quantity of paving installed within the pay limits indicated on the drawings and as contained within these specifications. The total paving volume will be converted to weight in tons by the following formula for payment under these bid items:

$$\begin{array}{ccccc} \text{Paving Area} & \times & \text{Paving Thickness} & \times & 0.06 & = & \text{Paving Weight} \\ \text{(square yards)} & & \text{(inches)} & & & & \text{(tons)} \end{array}$$

- B. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for placing hot bituminous pavement, clean up and associated work as specified and shown on the Drawings. MaineDOT Section 108 Payment (Asphalt Escalator) shall apply to Items W-23 and W-24.
- C. Schedule of Payment: Installation – 100%

2.13 ITEM NO. W-25 and W-26 – Work Zone Traffic Control and Flaggers

- A. Method of Measurement: Lump Sum
- B. Basis of Payment: Payment of the lump sum prices established in the Bid shall be full compensation for providing work zone traffic control (in conformance to Section 01000 – Special Provision within the contract documents) and flaggers, and associated work as specified.
- C. Schedule of Payment: Payment shall be made in proportion to the percentage of completion of Part 2 (Portland Water District bid items) of the project.