

**Portland
Water
District**

From Sebago Lake to Casco Bay

FALMOUTH & WINN ROAD WATER MAIN REPLACEMENT

**ADDENDUM NO. 1
TO
CONTRACT DOCUMENTS
FOR**

**BIDDING AND CONTRACT REQUIREMENTS AND SPECIFICATIONS
VOLUME 1 OF 1**

DATE: FEBRUARY 23, 2024

Prepared By:
**PORTLAND WATER DISTRICT
225 Douglass Street
Portland, ME 04104**

SPECIFICATION UPDATES

1. **Section 01250 – Measurement & Payment.** Updated to clarify Items W1-W5 such that it is clear that no materials are provided by the Owner.

ATTACHMENTS

1. Project Question Log
2. Section 01250 - Measurement and Payment - Revised

Portland Water District

Falmouth & Winn – Water Main Replacement Project

Bidding – Question & Response Log

Last Revised: 2/23/24

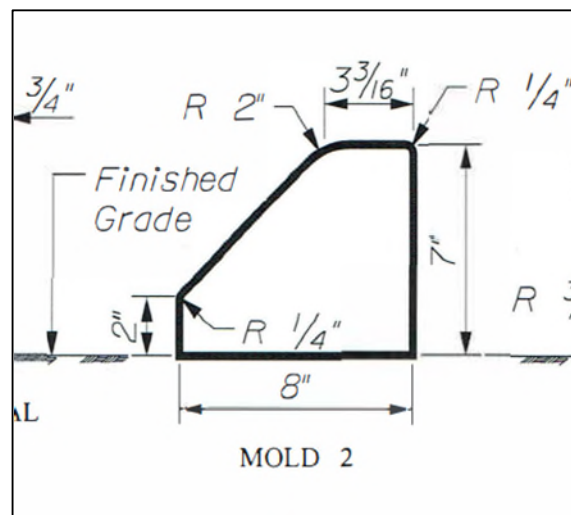
- 1. Is there any ledge anticipated for this project?**
 - a. PWD does not have any record of ledge in the area and has not completed any ledge probes as part of design.*
- 2. Would the PWD please invite the Town of Falmouth to the pre-bid meeting so that the Town may instruct all bidders at the same time about any special restoration or traffic control requirements along with what will be needed for permits from the Town and the cost of any permits?**
 - a. PWD can invite the Town to attend the pre-bid meeting, but cannot require them to attend. As the pre-bid is non-mandatory, and any entity can bid without attending, any questions related to Town requirements will need to be formally processed and distributed anyway. Please submit all specific questions you have about requirements related to the Town as soon as possible so they can be responded to.*
- 3. Are there any special restoration requirements from the Town of Falmouth for this project?**
 - a. There are no special or specific restoration requirements from the Town.*
- 4. Are there any special traffic control requirements from the Town of Falmouth for this project?**
 - a. The Town has placed specific emphasis on maintaining traffic flow through the intersection, particularly in respect to traffic coming from Gray Road as to not cause a backup at the Gray @ Mountain intersection. Further, the Contractor will need to be sure to not cause any delays to emergency vehicles through the intersection.*
- 5. Will police be required for any traffic control?**
 - a. Police Details will not be required for the project.*
- 6. Are there any permits from the Town of Falmouth required for this project? If yes, what are the costs?**
 - a. A Street Opening Permit will be required by the Town. The permit fee for this project will be waived.*
- 7. Does any of this work have to be done at night?**
 - a. Night work will not be required for the project*
- 8. Is there wiggle room on final completion date?**
 - a. In order to meet the schedule for paving by the Town, PWD will need to hold the final completion date listed in the Agreement.*

9. Does PWD know if the previous laydown area on Mill Road would be available? Is there still a bus turnaround down by the bridge?

- a. The previous laydown area used on Mill Road was on private property. As such, PWD cannot assume that this would be available. Procuring a laydown area will be the responsibility of the Contractor. PWD does not have any property in the area that can be used to hold materials.
- b. It does appear that there is a turnaround just before the bridge heading west based on aerials (Contractors should confirm).

10. How is curbing accounted for in the bid? What type of curbing is existing/required?

- a. Replacement of existing curbing is considered incidental restoration. This would either be included in the water main or service line items as included costs to the bid item. Existing curbing is asphalt and should be assumed to be replaced in kind in the existing configuration.
- b. The Town has provided the following image to illustrate how the curbing should be installed. They have further placed emphasis that the curb should be installed such that the 2-inch lip on the front face should be left exposed. Curb should be installed per [Maine DOT Standard Details Section 609 – Curb Type 3 Mold 2](#) as outlined in the [Maine DOT Standard Details](#) and using the dimensions below.



11. Would the FD be able to coordinate with the Contractor for work in front of their entrance to locate an engine elsewhere?

- a. PWD has confirmed that the Fire Department can locate emergency vehicles elsewhere when construction will impact the entrance. Falmouth EMS will be invited to the pre-construction meeting and will weigh in on that time related to how much notice is required and what coordination will be necessary between the Station and the Contractor.

12. Please confirm if PWD is supplying any pipe or valves?

- a. The language in the Measurement & Payment Section is not clear. PWD is not supplying any materials for this project. This Section will be updated in Addendum 1, to be published ahead of the bid opening.

13. Is the District going to pay for new pavement that is placed that is due to the installation of the temporary water line?

- a. *From Subsection 1.02.A.13 of the Measurement and Payments Section related to Incidental Work: Temporary construction and other facilities not to be permanently incorporated into the work necessary for construction sequencing and maintenance of operations. Inclusive of but not limited to temporary water supply system and pavement restoration of temporary water supply system trenches outside the limits of payment for pavement associated with permanent water infrastructure replacements.*

Section 01250

Measurement and Payment

PART 1 - GENERAL

1.01 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 Owner 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.
- B. The Contractor, in case of unit price items measured for payment, shall be paid for the actual amount of work accepted and for the actual amount of materials in place. At the end of each day's work, the Contractor's authorized representative shall meet with the Owner's representative and determine the quantities of unit price work accomplished or completed during the work day. The Owner's representative will then prepare two "Daily Quantity Reports" which shall be signed by both the Contractor's representative and the District's representative. These completed forms will provide the basis for the Contractor's partial payment requests. Items not appearing on the Daily Quantity Report will not be included for payment.

1.02 INCIDENTAL WORK

- A. Incidental work items for which separate payment is not made include (but are not limited to) the following items:
 - 1. Dewatering
 - 2. Dust Control
 - 3. Erosion control
 - 4. Traffic control plan
 - 5. Construction signs
 - 6. Trench boxes, steel and/or wood sheeting as required, including that left in place
 - 7. Clean-up
 - 8. Loaming and seeding
 - 9. Restoration of property
 - 10. Repair and replacement of utilities damaged by construction activity and corresponding proper disposal of removed materials
 - 11. Excavation under/near and/or crossing other utilities, including any equipment/supports required for that work
 - 12. Fittings (e.g., crosses, tees, bends, sleeves) shown on the Drawings
 - 13. Bonds, insurance, shop drawings, warranties and other submittals required by the contract documents

14. Temporary construction and other facilities not to be permanently incorporated into the work necessary for construction sequencing and maintenance of operations. Inclusive of but not limited to temporary water supply system and pavement restoration of temporary water supply system trenches outside the limits of payment for pavement associated with permanent water infrastructure replacements.
15. Permits not otherwise paid for or provided by the Owner
16. Facilities for storage of materials to be incorporated into the Work
17. Test pits to determine existing utility locations, soil conditions, and as required to complete the Work
18. Assessment of potential obstructions to project work (e.g., existing pipes, services, conduits, ducts, sewers, etc.) and all arrangements with owners of those obstructions to allow for the project work to take place.
19. Protection of existing trees, buildings, structures, and utilities (both public and private) including poles, signs, services to buildings, buried utilities, gas pipes, water pipes, hydrants, sewers, drains, and electric and telephone cables, whether or not they are shown on the Drawings. The Contractor shall carefully support and protect all such structures and utilities from injury of any kind.
20. Mobilization/demobilization.
21. Clearing, grubbing, and stripping.
22. Saw cutting, removal, and disposal of existing pavement, concrete, and/or cobblestones.
23. Resetting or replacement of existing street signs
24. Pre-construction photographs/videos (as necessary).
25. Providing material for and installation of rigid foam board insulation as instructed by the Owner in areas where service pipe and/or water main is installed without proper cover or is installed within close proximity to sewer/storm manholes.

1.03 PAYMENT ITEMS

A. Items W1 & W2 - PVC Water Main

1. Method of Measurement: Linear feet as measured along the centerline of the pipe for the actual number of linear feet of pipe and fittings installed.
2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for clearing, excavating, shoring and bracing, dewatering, pipe, external restraints, ductile iron fittings, polyethylene encasement as required, 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, select backfill, backfilling up to bottom of subbase gravel and compaction of placed materials and associated work as specified and shown on the Drawings. Separate payment shall be made for aggregate subbase gravel, aggregate base gravel, and Hot Mix Asphalts.
3. Schedule of Payment: Installation - 80%, Testing - 20%,

B. Items W3 to W5 - Gate Valves

1. Method of Measurement: Actual number installed
2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, backfilling, valve, sleeves (where required), valve box, select backfill, testing, and associated work as specified and shown on Drawings.

Separate payment shall be made for aggregate subbase gravel, aggregate base gravel, and Hot Mix Asphalts.

3. Schedule of Payment: Installation – 100%

C. Item W6 - Air Release Valves

1. Method of Measurement: Actual number installed
2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, valve, fittings, valve box, select backfill, backfilling, testing, cleanup, and associated work as specified and shown on Drawings.
3. Schedule of Payment: Installation – 100%

D. Items W7 to W9 - Copper Services

1. Method of Measurement: Actual number installed
2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, pipe, corporation, fittings, connection to existing service, service box, rod, curb stop, select backfill, backfilling, testing, cleanup (loam/seed and/or sidewalk/curb restoration), and associated work as specified and shown on Drawings.
3. Schedule of Payment: Installation – 100%

E. Item W10 – Reconnect 1-inch Service

1. Method of Measurement: Actual number installed
2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, pipe, corporation, fittings, connection to existing service, select backfill, backfilling, testing, and associated work as specified and shown on Drawings.
3. Schedule of Payment: Installation – 100%

F. Item W11 – Reconnect 6-inch Fire Service

1. Method of Measurement: Actual number installed
2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, pipe, fittings, valve, connection to existing pipe, select backfill, backfilling, testing, and associated work as specified and shown on Drawings.
3. Schedule of Payment: Installation – 100%

G. Item W12 - Hydrant Assembly

1. Method of Measurement: Actual number installed

2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, 6-inch hydrant control valve, valve box, 6-inch ductile iron pipe, hydrant, fittings, hydrant extensions (if required), 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.
3. Schedule of Payment: Installation – 100%

H. Item W13 - Gravel Borrow

1. Method of Measurement: Cubic yards as measured in place for the actual number of yards of gravel borrow installed.
2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, installation and compaction of gravel borrow as directed by the Owner to replace unsuitable excavated material.
3. Schedule of Payment: Installation - 100%

I. Item W14 - Unsuitable Material Excavated Below Pipe Grade

1. Method of Measurement: Cubic yard as measured in place prior to removal for the actual number of cubic yards excavated within the limits shown on the Drawings and directed by the Owner.
2. 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 Owner.
3. Schedule of Payment: Excavation - 100%

J. Item W15 - Rock Excavation

1. 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 Owner. Boulders less than two cubic yards in volume will not be measured for payment.
2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for excavation, shoring and bracing, dewatering, excavation, select backfill replacement, erosion control, cleanup and associated work as specified and shown on the Drawings.
3. Schedule of Payment: Excavation - 100%

K. Item W16 - Aggregate Subbase Course Type D

1. Method of Measurement: Cubic yards as measured in place for the actual number of yards of Aggregate Subbase Course Type D installed.
2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for installation grading, and compaction of Aggregate Subbase Course Crushed (MDOT 703.06c) used for trench repair or as directed by the Owner.

3. Schedule of Payment: Installation - 100%

L. Item W17 - Aggregate Base Course Type A

1. Method of Measurement: Cubic yards as measured in place for the actual number of yards of Aggregate Base Course Type A installed.
2. 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 for trench repair or as directed by the Owner.
3. Schedule of Payment: Installation - 100%

M. Items W18 - Hot Mix Asphalt (HMA) [19MM]

1. Method of Measurement: The volume will be measured in place for the actual quantity of paving installed within the pay limits within the trench repair areas indicated on the drawings. The total paving volume will be converted to weight in tons by the following formula for payment under these bid items:

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

2. Basis of Payment: Payment of the unit price established in the Bid shall be full compensation for placing hot bituminous pavement, milling, clean up and associated work as specified and shown on the Drawings. A price adjustment (up or down) based on the variance in costs for performance graded binder will be made for this item and calculated with the following formula (based on MDOT special provision section 108.)

$$\text{Price adjustment} = (\# \text{ of tons}) \times (\text{period price} - \text{base price}) \times [\text{asphalt factor}]$$

Base Price = The price of the PG binder liquid per ton that exists on the bid opening date

Period Price = The price of the PG binder liquid per ton that exists on the paving date that uses the New England Average Selling price.

% Asphalt factor = 5.2% for 19mm, 5.6% for 12.5mm and 6.2% for 9.5mm

Liquid prices are found at:

<http://www.maine.gov/mdot/contractors/bidderinfo/asphalt.shtml>

3. Schedule of Payment: Installation - 100%

N. Items W19 & W20 –Traffic Control Items

1. Method of Measurement: Lump Sum.
2. Basis of Payment: Payment of the lump sum prices established in the Bid shall be full compensation for providing work zone traffic control, traffic signs, construction signs, flaggers, and associated work as specified.

3. Schedule of Payment: Percentage of Construction Completed

O. Items W21 & W22 - Foreman & Laborer

1. Method of Measurement: Total hours.

2. Basis of Payment: Unit price per man-hour as stated in the Bid. Payment shall include wages, benefits and overhead and profit for personnel for the purpose of performing extra work at the request of the Owner.

3. Schedule of Payment: Completion of Work - 100%

P. Items W23 to W25 - Excavator, Loader, and Dump truck

1. Method of Measurement: Total hours.

2. Basis of Payment: Unit price per hour as stated in the Bid. Payment shall include equipment and operator/driver, wages, benefits, fuel and overhead and profit for the purpose of performing extra work at the request of the Owner.

3. Schedule of Payment: Completion of Work - 100%

PART 2 – PRODUCTS

(NOT USED)

PART 3 - EXECUTION

(NOT USED)

-- END OF SECTION --