

SECTION 611 WATER SYSTEMS

611.01 **DESCRIPTION** – Add the following to this subsection:

This work also consists of the following:

Adjustment of existing water system-related facilities including, but not limited to, waterlines, manholes/valve boxes

611.02 **MATERIAL** – Amend and revise the following to read as:

Bedding Material – Furnish sand or selected sandy soil free of excess moisture, muck, roots, sod, or other deleterious material and conforming to the following.

- a. Material passing a 3/8-inch sieve, AASHTO T 127 100%
- b. Material passing a No. 200 sieve, 10% (max)
 AASHTO T 127 and T 11

Concrete – Concrete and concrete related works shall conform with Section 601.

Backfill - Aggregate subbase material conforming to Section 301.

CONSTRUCTION REQUIREMENTS

611.03 **GENERAL** – The first paragraph of this Subsection is supplemented as follows:

Adjust water gate valve cover in accordance with the plan, elevation should match the finished grade.

The Contractor shall be responsible for repairing all waterline leaks or breakages that occur from the construction work within the project limits at no extra cost to the contract during the construction of this project. All repairs shall be made as soon as possible after discovery of leaks or breakage and shall be subject to inspection by the Contracting Officer or his Authorized Representative and shall be subject to approval of the duly authorized representative of the Commonwealth Utilities Corporation or the appropriate utility agency owning the facility before officially accepting the repair work as satisfactory.

611.04 **LAYING WATERLINE** – Add the following to the text of this subsection:

Adjustment of Water Utility Manholes or Valve Box – When an existing water utility valve box or manhole is encountered within the project right-of-way and the top elevation of the box or manhole is required to be adjusted to match the finished grade, then upon the approval of the Contracting Officer, adjust the valve box or manhole cover as detailed on the plans. Re-use the existing valve box frame and cover. Provide new matching coupling and extension to facilitate the required elevation adjustment and construct a new concrete collar.

611.06 BACKFILLING – Delete and revised the paragraphs to read as follows:

Backfill according to section 209, except hand place the first backfill layer to 12 inches over the top of the pipe's bedding material. Remove all rocks and hard lumps from the hand-placed layer. Compact and test in-place densities as indicated in subsection 301.05.

611.08 MEASUREMENT – Delete and revised the second paragraph to read as follows:

- a. Adjustment of existing water manholes and valve boxes shall be measured by the each, including excavation, backfilling, concrete and required waterline fittings and hardware to complete the work.

611.09 PAYMENT – Delete and revised the second paragraph to read as follows:

Payment will be made under:

Pay Item No.	Pay item	Pay Unit
61108	Water Valve Box Cover Adjustment, complete-in-place	Each

END OF SECTION 611