

Town of Ridgefield
Office of the Purchasing Manager
Addendum Number 1
Bid Number 26-01
Request for Quotes
Sidewalk and Drainage Repair
Specifications

4.1 Work Included:

Under this item, the Contractor shall furnish all labor, materials, tools, and equipment necessary to prepare the site, remove existing sidewalks, if required, place and grade the gravel bedding, construct new sidewalks of the material specified, and all other work necessary to complete the construction of sidewalks as shown on the plans or specified herein.

4.2 General Requirements:

In general, all sidewalks shall be constructed or reconstructed by the Contractor in accordance with the current State of Connecticut Department of Transportation (CONNDOT) Standard Specifications, Section 9.21, as amended to date. CONNDOT Specifications shall apply to the materials to be supplied and to construction procedures, except as modified herein.

The Contractor shall construct sidewalks within the grades and limits indicated on the Contract Drawings, or as required by the Contract Documents. The tolerance of the finished top surface shall be plus or minus 1/8 inch for width of walk and each 5-foot length of walk.

Where new or replacement cement concrete sidewalk is to meet existing sidewalk, the existing sidewalk shall be removed back to the first expansion or construction joint.

The finished grade and alignment of sidewalk replacements shall match existing conditions prior to removal, unless otherwise shown on the Drawings.

4.3 Site Preparation:

The Contractor shall break up and remove the existing sidewalk where required. The subgrade is to be excavated to a point to accommodate the required thickness of new concrete sidewalk, gravel base, and any grade change as required below finished grade.

The subgrade shall be free from all bumps, depressions, standing water, roots, organic material and all deleterious material. The subgrade shall be graded, leveled and compacted to a smooth surface, parallel to the final surface.

In fill areas, the Contractor is to remove any deleterious material from the subgrade and raise the grade to accommodate both the required new concrete thickness and gravel base. Fill material shall be clean, well graded material free of any organic material or stones

greater than three (3) inches. All fill shall be thoroughly compacted with a vibratory compactor.

4.4 Gravel Base:

The gravel base shall consist of 3/4 inch processed gravel. The material shall be placed to a true line and grade as directed by the Engineer and shall be thoroughly compacted by means of a vibrating compactor.

The gravel base shall be placed not less than six (6) inches in depth and to such a grade that after compaction it shall form a true grade at a depth equivalent to the required new concrete sidewalk thickness below the finish sidewalk grade.

4.5 Forms:

Sidewalk forms shall be either steel or wood, and shall be equal in depth to the thickness of the sidewalk. Sidewalk forms shall be held firmly in place using steel pins driven into the ground. Prior to the start of each day's concrete placement, the sidewalk forms shall be placed and graded to the proper line and grade.

4.6 Concrete:

Portland Cement Concrete to be replaced under this item is specified under Appendix A, "Portland Cement Concrete Material Specification." The concrete thickness shall be as shown on the plans. Wire reinforcement is to be furnished and installed at all locations. The wire fabric shall consist of one layer of 6"x6" - 10/10 gages, or as directed in the field.

4.7 Finishing:

The surface of the concrete shall be finished with a wood or rubber float or by other approved means (machine). The outside edges of the slab and all transverse joints shall be edged with the proper finishing or edging tool. The finishing shall be accomplished while the concrete is still in a plastic state and the adding of slurry to a hardened surface shall not be permitted.

4.8 Joints:

After placing of the concrete, the forms shall be marked in five-foot increments with a joiner tool, or by the removal of a steel plate inserted in the forms, and at every twenty (20) foot interval, expansion joint material shall be placed prior to pouring. This material shall be asphaltic, cork or fiber in nature and shall extend in depth the full thickness of the slab.

4.9 Curing:

All finished surfaces shall be covered and kept in a moist state for a period of not less than forty-eight (48) hours after finishing, using a burlap or moisture-barrier material for covering, and for the purpose of concrete curing and dehydration control. The Contractor is to refer to Appendix A, "Portland Cement Concrete" for placement considerations during adverse weather conditions.

4.10 Testing Requirements:

Testing requirements for concrete are listed under Appendix A, "Portland Cement Concrete." All costs associated with the testing of concrete are to be included for payment under this item.

4.11 Structure Adjustments:

Any valve boxes, curb boxes, manhole covers, etc., encountered or to be located in the sidewalk area shall be adjusted so that the cover is flush with the top surface of the sidewalk. All valve boxes, curb boxes, etc., shall be left in such a way that the covers are easily removed and the boxes shall function in the manner in which they were intended. All covers shall be cleaned and restored to their original condition, free from concrete and asphalt.

4.12 Monolithic Concrete Sidewalk:

Where directed by the Engineer, or as shown on the plans, the Contractor shall install a monolithic concrete sidewalk. Materials and construction methods shall be as specified herein for concrete sidewalks. In constructing monolithic sidewalks, the Contractor shall saw cut the existing bituminous concrete road or parking area pavement as required.

4.13 Detectable Warning Strips:

Detectable warning strips shall be a prefabricated detectable warning surface tile employing stainless steel construction as shown on the plans. The color shall be approved by the Engineer. Warning strips for new construction shall be set directly in poured concrete according to the plans and the manufacturer's specifications, or as directed by the Engineer. The Contractor shall place 2-25 pound concrete blocks or sandbags on each tile to prevent the tiles from floating after installation in wet concrete. The Contractor is responsible for removing any material splatters or debris.

4.14 Concrete Paver Sidewalk:

The Contractor shall supply and install brick paver sidewalks as shown on the plans and specified herein. Work shall be as specified under Appendix B, Concrete Brick Pavers.

Base materials shall be as specified within Appendix B or as shown on the plans. Where concrete pavers are to be placed on an asphaltic base, materials shall be as specified under Item 5, Pavement and paid for under this item.

4.15 Concrete Curbing:

In general, materials shall be as those specified for concrete sidewalks under this item or Appendix A.

Excavation shall be made to the required grade and the base upon which the curbing is to be set shall be compacted to a firm, even surface. The pavement shall be saw cut and pavement materials, either asphalt or concrete, shall be removed.

The concrete shall contain not less than 5 or more than 7 per cent entrained air at the time the concrete is deposited within the forms. Concrete shall be placed only on a moist base. Concrete shall not be placed on a soft, muddy or frozen base.

Slip form equipment may be used if the resulting product conforms to the plans.

Where slip form equipment of precast concrete curbing is not used, the concrete shall be placed in forms, struck off with a template, compacted by approved means and finished to a smooth, even surface. Vibration will not be required.

The concrete curbing shall be constructed in sections having a uniform length of approximately 10 feet, unless otherwise directed, so arranged that a joint in the curbing shall come opposite a joint in the adjoining concrete pavement slab and be similar to it. The length of these sections shall be separated by an approved method at the time of placing of the concrete.

Forms: Where forms are used, they shall be so constructed that the form for exposed faces may be removed before the concrete has taken final set in order to permit correction of surface irregularities.

Wire Mesh or other type of reinforcing shall be placed as shown on the detail drawings.

Mountable curbing shall conform to the dimensions as shown on the plans. Construction procedures shall be as specified within this Item 4 for concrete curbing.

4.17 Measurement and Payment:

All excavation, grading, subbase preparation, and backfilling necessary to complete the various subdivisions of this item shall be as specified and paid for under Item 1, General Construction and Excavation. Payment for all work associated with the provision and installation of detectable warning strips shall be covered under the unit prices of the

various subdivisions of this item. No direct payment shall be made for detectable warning strips.

Work completed under this item 4A, Concrete Sidewalk shall be measured as the actual number of square feet of concrete sidewalk constructed. Payment shall be made for all work necessary to construct concrete sidewalks as shown on specifications herein. Concrete curb ramps shall be measured and paid for under this item 4A.

Work completed under this item 4B, Additional Payment for Monolithic Concrete Sidewalk shall be measured as the actual number of lineal feet of monolithic Concrete Sidewalk measured along the curb line and shall include all extra effort required to supply labor, materials, tools, and equipment in addition to that paid for under Item 4A.

Work completed under item 4C, Concrete Paver Sidewalk on Gravel shall be measured as the actual number of square feet of concrete paver sidewalk installed on a gravel base. Payment shall be made for all work necessary to construct brick paver sidewalks as shown within these specifications and the plans.

Work completed under item 4D, Concrete Paver Sidewalk on Asphalt shall be measured as the actual number of square feet of concrete paver sidewalk installed on an asphaltic base. Payment shall be made for all work necessary to construct brick paver sidewalks as shown within these specifications and the plans.

Work completed under item 4E, Concrete Curbing shall be measured as the actual number of lineal feet of concrete curbing installed. Payment shall be made for all work necessary to construct concrete curbing as shown on the drawings and noted within these specifications.

Work completed under item 4F, Mountable Concrete Curbing shall be measured as the actual number of lineal feet of mountable concrete curbing installed. Payment shall be made for all work necessary to construct mountable concrete curbing as shown on the drawings and noted within these specifications.

