

Item C608 –Sidewalks and Curb Ramps

- C608.1 Description**
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C608.1 Description. This item shall consist of the construction of sidewalk and curb ramp on a prepared subgrade or sub-base course in accordance with these specifications and in conformity with the lines, grades, thickness and typical cross-sections established by the City Engineer. The materials shall be either Portland cement concrete or brick paver, as specified by the drawings or by the City Engineer. The sidewalk and ramp shall meet current ADA Guidelines, to the extent practical, as promulgated by the United States Access Board. Removal of existing sidewalk/ramp shall be done in accordance with Item C202 and as directed by the Engineer.

C608.2 Material and Construction. All labor, equipment and materials including aggregate base, brick pavers, concrete, expansion material, and curing compound shall be included. Concrete shall meet the requirements of ODOT Item 499 of the Ohio Department of Transportation "Construction and Material Specifications Manual", latest edition. Mix design shall be QC Misc or QC 1.

Full-depth form boards are required.

In areas of sidewalk/ramp reconstruction, the City will mark the limits to be removed and reconstructed, unless otherwise noted on plans. If curb is to be reconstructed to accommodate a sidewalk/ramp, the curb work will be done and paid under Items C202 and C609.

Expansion joint material shall be ½" inch thick, full-height vinyl and meet the requirements of ODOT Item 705.03. Expansion material shall be placed between curb and adjacent sidewalk/ramp (6- inch), joints between sidewalk and/or curb ramp (typically 4- inch), every 100 linear feet of sidewalk, and around catch basins, manholes, poles, foundations, pull boxes and boxouts. Six inch vinyl expansion shall be used adjacent to concrete driveways.

Unless otherwise specified, the back of the sidewalk shall be set at ½-inch per foot above the standard top of curb. Flexibility is permitted where:

- the sidewalk approaches a curb ramp, the sidewalk may drop relative to the curb to help achieve the required curb ramp slopes, and/or
 - the sidewalk will meet existing sidewalk or driveway aprons.
- **ADA guidelines shall be met in all cases

The sidewalk/ramp cross-slope shall range between 1/8-inch and ¼-inch per foot maximum. Deviations from these requirements shall be approved by the City Engineer.

Unless otherwise noted, concrete sidewalk shall be 4 inches in thickness and curb ramp

shall be 6 inches in thickness.

Joints shall be tooled to a depth of one quarter the thickness of the sidewalk and extend the entire width (or length) of the sidewalk/ramp. The outside edges and joints shall be re-traced. A light broom finish shall be placed on the sidewalk.

Cast-in-place, rigid, detectable warnings shall be installed in each ramp. Unless otherwise specified, the same detectable warning product shall be used for the project.

The approved cast-in-place panels (color to be red brick) are:

- Armor-Tile (www.armor-tile.com, 800-682-2525)
- ADA Solutions (www.adatile.com, 800-372-0519)
- Armorcast (www.armorcastprod.com, 818-982-3600)

The size of the mat installed shall achieve ADA compliance, so the size may vary with varying sidewalk widths. For example, an 8'-wide ramp will include an 8' wide detectable warning mat. Any additional mat installed per engineer's direction shall be paid separately.

C608.3 Excavation. Unsuitable sub-grade material shall be removed as directed by the City Engineer and replaced with ODOT Item 304 Aggregate Base. Removal and replacement up to 4 inches of unsuitable material shall be included in the unit price of sidewalk or curb ramp installed. Should unsuitable sub-grade material be found below 4 inches, payment for such removal and replacement shall be paid for under Item C203 - Undercutting.

Where existing sidewalk or curb ramp is to be removed and replaced, removal shall be under of Item C202.

C608.4 Method of Measurement. The quantity to be paid shall be the actual number of square feet of concrete sidewalk, ramp, and detectable warning of the thickness specified, complete and in-place. All measurements will be made horizontally along the centerline of the concrete sidewalk/ramp.

C608.5 Traffic Control. Vehicular traffic shall be maintained at all times, including to driveways. At no time shall both sides of the street be blocked so as to prohibit vehicular traffic. At no time shall a business be denied use of their driveway without consent of the business owner and the Engineer. The Contractor shall be responsible for performing traffic control in accordance with the Ohio Manual of Uniform Traffic Control Devices. Pedestrian traffic will be maintained to the extent possible. Maintenance of pedestrian traffic shall be performed in accordance with the Ohio Manual of Uniform Traffic Control Devices and ADA guidelines, including providing alternative routes.

C608.5 Basis of Payment. The price bid for this item shall include all labor, equipment and material incidental to the construction of the concrete sidewalk/ramp and shall include: preparation of the sub-grade; placement of up to 4 inches of ODOT Item 304 Aggregate Base; the construction of concrete sidewalk/ramp; any backfill required; restoration of topsoil; tooling

joints; curing materials; vinyl expansion joint material; and detectable warning devices. All turf restoration shall be included under Items C659 - Seeding & Mulching and/or C660 - Sodding. Payment will be based on the unit price bid:

Item	Unit	Description
C608	Square Foot	Concrete Sidewalk
C608	Square Foot	Concrete Curb Ramp, Including Detectable Warning Device
C608	Square Foot	Brick Sidewalk, 4-inch Aggregate Base
C608	Square Foot	Brick Sidewalk, 4-inch Concrete Base

