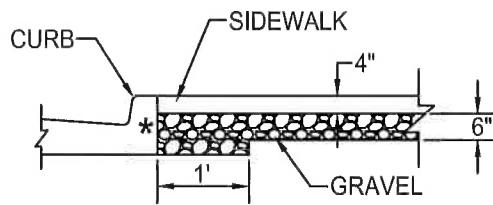
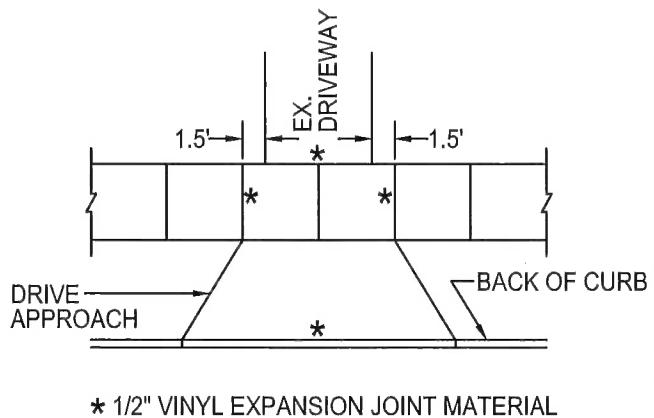
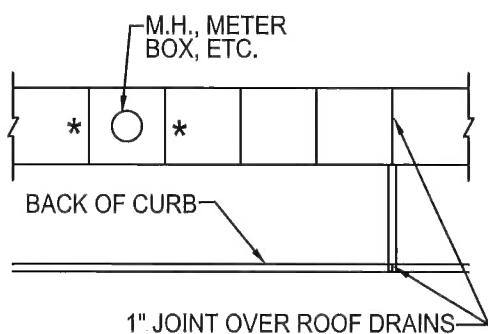
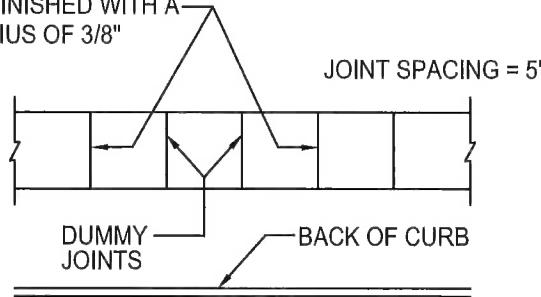


GROOVES 1" DEEP EVERY
15' FINISHED WITH A
RADIUS OF 3/8"



(TO BE USED WHERE CURB & SIDEWALK ARE ADJOINING)

1. SIDEWALKS SHALL BE 4 FEET WIDE ON LOCAL STREETS AND 5 FEET WIDE ON ALL OTHER STREETS, OR WIDTH AS DETERMINED BY THE CITY ENGINEER.
2. SIDEWALK SHALL BE 4" THICK EXCEPT THRU DRIVEWAYS, WHICH SHALL BE 6" THICK.
3. VINYL EXPANSION JOINT MATERIAL SHALL BE PLACED AS SHOWN, WITH A MINIMUM SPACING OF 100' OR AS DIRECTED BY THE ENGINEER.
4. 4" GRAVEL BASE SHALL BE PLACED UNDER SIDEWALKS, OR AS APPROVED BY THE ENGINEER.
5. ALL CONCRETE SHALL BE ODOT CLASS "C".
6. PROVIDE A BROOM FINISH TO ALL EXPOSED SURFACES.
7. PROVIDE A MINIMUM OF 2" EDGING AROUND ALL EXPOSED SURFACES.
8. SIDEWALKS SHALL BE SLOPED AT 50:1 (2.00%) TOWARD THE STREET, OR AS APPROVED BY THE ENGINEER.



607.08

607.08 Barbed Wire. If barbed wire is specified, stretch and fasten it in the same manner as woven wire fabric.

607.09 Method of Measurement. The Department will measure Fence, Type ____ by the number of feet (meters), complete in place. The Department will measure along the top of the fence from outside to outside of end posts, exclusive of gates and other openings.

The Department will count Gate, Type ____ by the number of complete units of the size and type specified.

The Department will measure Fenceline Seeding and Mulching by the number of feet (meters) of fence. The Department will measure along the top of the fence from outside to outside of end posts, exclusive of gates and other openings.

607.10 Basis of Payment. The Department will pay for accepted quantities at the contract prices as follows:

Seeding and Mulching shall be paid under Item 607 Seeding and Mulching

Item	Unit	Description
607	Foot (Meter)	Fence, Type ____
607	Each	Gate, Type ____
607	Foot (Meter)	Fenceline Seeding and Mulching

ITEM 608 WALKS, CURB RAMPS, AND STEPS

608.01 Description

608.02 Materials

608.03 Concrete Walks

608.04 Asphalt Concrete Walks

608.05 Crushed Aggregate Walks

608.06 Concrete Steps

608.07 Curb Ramps

608.08 Method of Measurement

608.09 Basis of Payment

608.01 Description. This work consists of constructing walks, curb ramps, and steps as per plans, specifications and standard drawings.

608.02 Materials. Furnish materials conforming to:

Aggregate Base.....	304.01 and 304.02
Asphalt concrete Type 1.....	441
Concrete, Class QC Misc. or QC 1*	499
Reinforcing steel.....	509.02
Liquid Membrane-Forming Compounds for Curing Concrete.....	705.07
Concrete Sealers, non-epoxy	705.23B
Crushed aggregate meeting grading requirements of	703.10

Detectable Warning Devices	712.14
Expansion joint material.....	705.03

* Replacing Coarse aggregate in the concrete mixes with Recycled Concrete Aggregate conforming to Supplement 1117 is an option.

608.03 Concrete Walks. Construct concrete walks as follows:

- A. Excavation.** Excavate to the required depth and to a width that allows installation and bracing of forms. Shape and uniformly compact the subgrade to a surface conforming to the plans.
- B. Forms.** Use either fixed forms or slip-form methods. For fixed-form construction, use wooden or metal forms that extend the full depth of the concrete and that do not spring under the concrete pressure. For slip-form construction, perform the work according to 609.04.C.
- C. Placing and Finishing.** Immediately before placing concrete, thoroughly moisten the subgrade. Deposit concrete in a single layer, strike it off with a template, and smooth it with a float to obtain a sandy texture. Do not plaster the concrete. Use a 1/4 inch (6 mm) radius edging tool to edge all outside edges and joints. Divide the surface of the walks into equally spaced rectangular blocks at approximately 5 foot (1.5 m) intervals. Saw or form transverse joints to a depth of not less than one-fourth the thickness of the slab and to a width of approximately 1/8 inch (3 mm). Install 1/2 inch (13 mm) thick expansion joint filler between the walk and any fixed structure that extends the full depth of the walk. Install 1 inch (25 mm) thick expansion joint filler between the walk and the back of curb that is on a 250 foot (75 m) or smaller radius, such as at street intersections. Follow Item 511.12 for concrete placement during cold weather conditions.
- D. Slope.** Construct the surface of the walk with a maximum transverse slope rate of 0.02 and with the low side adjacent to the roadway.
- E. Curing and Treating.** Cure concrete according to Item 451.11.

608.04 Asphalt Concrete Walks. Construct asphalt concrete walks as follows:

- A. Excavation and Forms.** Excavate and construct forms according to 608.03.A and 608.03.B.
- B. Base.** Place and thoroughly compact aggregate base in layers not exceeding 4 inches (100 mm) in depth.
- C. Asphalt Placement and Compaction.** Place asphalt concrete in one or more courses to provide the required depth. Compact using a hand roller or power roller of a type and weight acceptable to the Engineer.

608.05 Crushed Aggregate Walks. Construct crushed aggregate walks as follows:

- A. Excavation.** Excavate according to 608.03.A.
- B. Forms.** Construct forms of wood or metal of acceptable rigidity and to the depth of the necessary loose material. Back forms with compacted soil to the height of the completed walk.

608.06

C. Aggregate Placement and Compaction. Place aggregate in one or more courses to provide the required depth. Compact using equipment of a type and weight acceptable to the Engineer.

608.06 Concrete Steps. Construct concrete steps as follows:

A. Excavation and Forms. Excavate and construct forms according to 608.03.A and 608.03.B.

B. Placing and Finishing. Place and finish concrete according to Item 511.15, and 511.18, except finish the treads of steps to produce a sandy texture according to 511.07.

C. Slope. Slope step treads at a rate of 0.01 and toward the next lower step.

D. Curing and Treating. Cure and treat steps according to 608.03.E.

E. Railing. If specified, install hand railing according to Item 517.

608.07 Curb Ramps. Excavate, form, place, finish, and cure according to 608.03.A, 608.03.B, 608.03.C, and 608.03.E. Finish ramps to a rougher final surface texture than the adjacent walk and with striations transverse to the ramp slope using a coarse broom or other method approved by the Engineer.

Provide detectable warning devices conforming to 712.14 in curb ramps. Install the detectable warning devices according to manufacturer's written recommendations and standard drawings. Provide a warranty to conform with the requirements of 712.14. Provide the manufacturer's written installation instructions and the 5 year warranty to the Engineer at or before the pre-construction meeting.

608.08 Method of Measurement. The Department will measure Concrete Walk, Asphalt Concrete Walk, and Aggregate Walk by the number of square feet (square meters) of finished surface, complete in place.

The Department will measure curb ramps by the number of square feet (square meters) completed. The Department will measure detectable warnings in existing curb ramps and at grade crossings by the number of square feet (square meters) completed.

The Department will measure Concrete Steps by the number of feet (meters), along the front edge of each tread. Where steps are constructed with integral walls, the Department will include the thickness of the integral walls with the tread width measurement.

608.09 Basis of Payment. Payment for walks, curb ramps, detectable warnings, and steps is full compensation for excavation, backfill, concrete cutting/sawing, base course material, reinforcing steel, hand railing, expansion joint materials, and any incidentals required to complete the installation as specified. The Department will pay for accepted quantities at the contract prices as follows:

Item	Unit	Description
608	Square Foot (Square Meter)	Concrete Walk
608	Square Foot (Square Meter)	Asphalt Concrete Walk