



City of Grand Forks

Engineering Department

255 North Fourth Street • P.O. Box 5200 • Grand Forks, ND 58206-5200

(701) 746-2640
Fax: (701) 787-3744

Dear Property Owner:

All sidewalk constructed privately within city right-of-way requires a sidewalk permit. This permit can be obtained at the Building Inspection Department in City Hall. At the time the permit is picked up, a copy of the construction specifications will be given to you.

If you pour your own sidewalk or driveway, a contractor's license is not required. However, if you hire the work done by a contractor, he is required to have a sidewalk builder's license, which is available at the Building Inspection Department in City Hall.

Please notify your contractor that he is to follow these specifications. Three days prior to starting construction, contact the City Engineering Inspector at 701-746-2651. He will arrange for a survey for proper line and grade for the new sidewalk. Just prior to pouring the new sidewalk notify him again so he can check the forms and inspect the actual construction.

This will enable the city to assure that the sidewalk is constructed properly and that you are paying for the job you are getting.

Sincerely,

Douglas D. Ferrie
Civil Engineering Specialist

DDF/tmw

SIDEWALK & DRIVEWAY SPECIFICATIONS FOR PROPERTY OWNER

1. **CONCRETE** - Concrete for sidewalk and driveway construction shall contain not less than six (6) sacks of cement per cubic yard and the slump shall not exceed four (4) inches. Fly ash will not be allowed.
2. **AIR-ENTRAINED** - All concrete shall be air-entrained. The air content shall be between five percent (5) and seven percent (7).
3. **THICKNESS** - All sidewalk shall be four (4) inches thick. All driveways shall be six (6) inches thick including the sidewalk section through the driveway (see Plate 64.03).
4. **LOCATION AND DESIGN** - Upon the purchase of a driveway or sidewalk permit by the property owner, the City Engineering Department will establish line and grade at the proper location. The inside edge of the sidewalk will be placed one (1) foot from the nail in the 1" x 2" stakes. The inside edge of the sidewalk will be level with the "blue topped" stakes. All sidewalks will be five feet in width. The sidewalk shall have a uniform slope of 1.25" toward the street. Contraction joints shall be placed every five (5) feet and shall be not more than 1/8 inch in width and shall be cut to a depth of not less than 1/3 of the thickness of the walk. Expansion joints shall be placed every fifty (50) to sixty (60) feet or where the walk abuts against or around another permanent fixed object. Expansion joints shall be composed of one-half inch thick bituminous filler, extending the full width and depth of the sidewalk. Material such as tar paper or cardboard, which can be rolled or folded to make expansion joint filler shall not be used.
5. **PREPARATION** - All fill must be solidly compacted in six (6) inch layers and extended two (2) feet beyond the edges of the sidewalk to prevent undermining. If it is necessary to fill, all sod must be removed before the fill is placed. All grass, sod, sticks, roots, and vegetable matter must be removed. Subgrade shall be well compacted.
6. **PLACING CONCRETE** - Immediately before placing the concrete, the insides of the forms shall be wetted and the foundation moistened with water. The concrete shall be placed in the forms by means of a chute or hand shoveling, and be thoroughly compacted by vibrating with a suitable vibrator.

Concrete shall in no case be placed on a frozen foundation. Unless cold weather protection and curing are furnished, concrete shall not be placed when the air temperature in the shade is less than 35 degrees F. nor shall it be placed where the air temperature is less than 40 degrees F. and falling.

Immediately after the water sheen has disappeared, the surface shall be broomed lightly at right angles to the centerline. The broom shall be approximately 24 inches long and shall have not less than three rows of bass, bassine or coire fibers. Brooms shall be clean and free of dry or hardened mortar before being used.

The Contractor shall mark in the walks at each end of every one hundred and fifty (150) feet of work or fraction thereof, either by stamping or by inlaying an approved metal plate, his name and year in which the walk is constructed. The stamped letters shall be one (1) inch high and one fourth (1/4) inch deep. If a metal plate is used, the top of the plate shall be flushed with the top of the walk.

The forms shall remain in place for a period of not less than 12 hours.

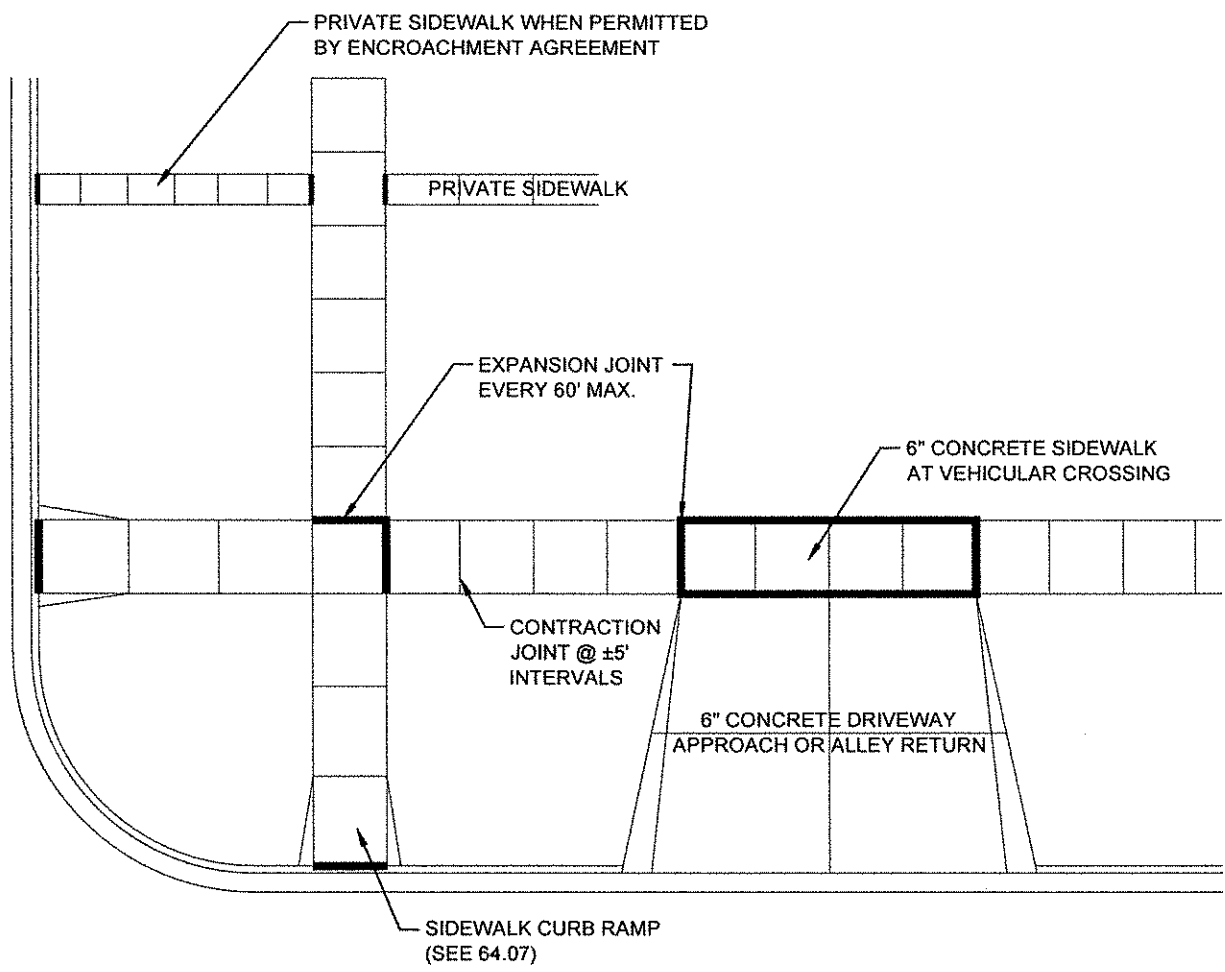
The concrete shall be cured for a period of not less than 72 hours by covering it with curing paper or plastic curing blankets or a membrane curing compound.

During cold weather, the Contractor shall protect the concrete from frost for at least 72 hours after placing. The restoration of the disturbed area adjacent to the sidewalk shall then be completed.

7. RESTORATION - Restoration shall include removal of excess material, installing black dirt (one inch minimum), leveling, and seeding.

The seed mixture shall consist of the following grasses: 63% Park Blue Grass, 33% red fescue.

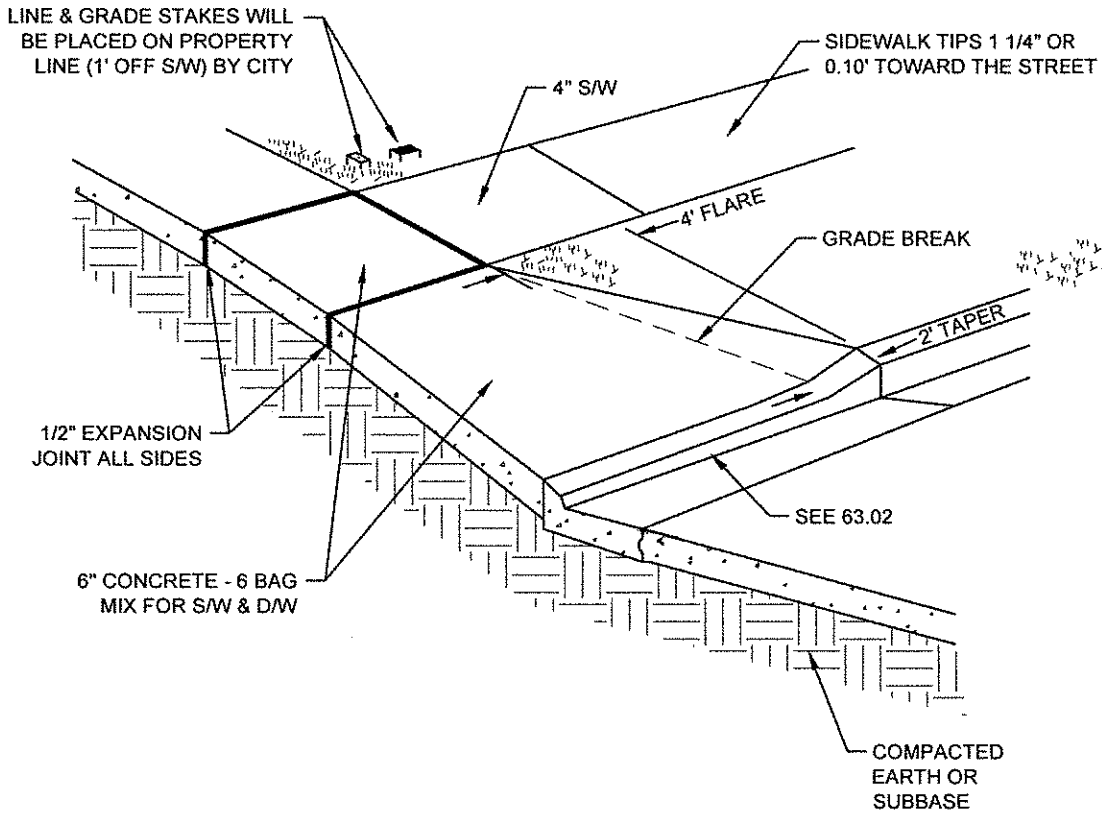
8. USAGE OF DRIVEWAY - Any driveway permitted under this ordinance shall lead to an area on the private property of sufficient size to accommodate the vehicles using such driveway.



NOTE:
 DARK LINES SHOW 1/2" EXPANSION JOINT TO BE PLACED AS SHOWN.

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	DATE: 3/28/2015	<h1>SIDEWALK JOINT PLAN</h1>	CITY ENGINEER ALLEN GRASSER	DRAWN BY: MPY
			SCALE: NTS	STD. PLATE 64.03



NOTES:

1. WIDTHS RESIDENTIAL D/W 30' MAX @ SIDEWALK
38' MAX @ STREET
COMMERCIAL D/W 30' MAX @ SIDEWALK
42' MAX @ STREET
2. WHEN NECESSARY TO REMOVE EXISTING CURB, IT SHALL BE SAWCUT TO FULL DEPTH OR REMOVED TO AN EXISTING JOINT.
3. WHEN TWO DRIVEWAYS SERVE THE SAME PROPERTY THEY SHALL BE SEPARATED BY 20' AT THE S/W LINE.
4. A COMMON DRIVEWAY TO SERVE 2 PROPERTIES MAY NOT BE OVER 30' WIDE AT THE SIDEWALK.
5. CONTRACTION JOINTS SHALL BE PROVIDED IN DRIVEWAY APPROACHES. NO PANEL SHALL EXCEED 12' BY 12'.
6. ON CORNER LOTS, THE D/W SHALL BE NO CLOSER THAN 15' AT S/W FROM THE CORNER PROPERTY LINE. (IN A-1, A-2, R-1, R-2 & R-M DISTRICTS)

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	DATE: 3/28/2015	<h1>TYPICAL DRIVEWAY</h1>	CITY ENGINEER ALLEN GRASSER	DRAWN BY: MPY
			SCALE: NTS	STD. PLATE 64.02