ORDINANCE No. 421

AN ORDINANCE of the City of Kent, providing for the construction of Concrete sidewalks in said City, and adopting plans and specifications therefor, and repealing ordinances in conflict therewith.

THE CITY COUNCIL OF THE CITY OF KENT, do ordain as follows:

SECTION 1. That all sidewalks hereafter constructed in the City of Kent, shall be of concrete construction, according to plans and specifications as herein provided, except as otherwise provided herein.

SECTION 2. That the plans and specifications for the construction of concrete sidewalks, shall be as follows:

The property owner shall notify the City Engineer or City Clerk, at least ten days before work on sidewalk is started, in order that grades etc., may be established.

The Contractor shall notify the City when the subgrade is completed, and no concrete shall be placed until after the subgrade has been inspected and accepted.

The contractor shall notify the City beforehand, when it is to pour concrete, so that provision may be made for inspection, and any sidewalk plamed without said notice, shall be condemned, and the contractor cannot hold the property owner to the payment of such condemned work.

Proper barriers shall be provided by the contractor to keep all traffic off the sidewalk, and he shall be responsible for any damage done to the green walk.

All sidewalks and street crossings, shall be made of concrete provided however, that on crossings not to be paved, or when deemed advisable by the city, planks, gravel or other suitable materials may be used. Provided further, that on hill sides or places where a suitable foundation cannot be made, the City may give special permission to build a Standard wooden sidewalk to be constructed according to plans and specifications heretofore adopted for wooden sidewalks; but said permission shall only be in extreme cases.

SUBGRADE; The subgrade shall be excavated to a depth of about four inches below the finished grade, and thoroughly settled and compressed by wetting and tamping. All fills under sidewalk shall be made of suitable material spread in layers not to exceed one foot in thickness, each layer shall be thoroughly flushed with water and tamped or rolled, until a hard unyielding surface is obtained.

In fills, the subgrade shall extend at least nine inches past the edge of the sidewalk, and shall have a natural slope of one and a half to one foot (1 1/2 to 1'), unless the fill be against some permanent structure; no board retaining walls shall be used.

FORMS; Forms shall be of straight, sound timber, four inches (4") in depth, surfaced on the side next to the concrete, and set and firmly staked to true line and grade; after the forms are set the foundation shall be checked with a template measuring four inches (4") in depth, below the top of the forms, and the subgrade shall be smoothed down, and with the forms shall be well settled just before placing concrete.
The Standard walk shall be one course concrete, 1-2½-4 mix, four (4") inches thick and six (6) feet in width, having a slope toward the street of one and one-half inches (1½") in six feet. The top shall be well struck down so no stone shall be within one-half inch of the surface.

SURFACE: The surface shall be trowelled smooth, and shall be marked with a V shaped groove one quarter of an inch in depth, dividing the walk into blocks two feet square. On grades of four percent or over, the surface shall be roughened by brushing; on grades of 8% or over, the surface shall be roughened by corrugations; and on grades of 16% or over, the surface shall be marked with a template, and shall have a raised portion every twenty-two inches, measuring one-half an inch raise and four inch run.

EXPANSION JOINTS: An expansion joint of three-eighths of an inch thickness, shall extend entirely through the concrete walk for the full width, approximately every sixty feet. This joint may be elastic or poured with no expansion joint material. There shall also be an extension joint of one-half inch in width at all places at street intersections where a concrete sidewalk joins a concrete or granite curb.

CEMENT: The cement shall be a true Portland cement of the best quality, dry and free from all lumps and foreign material, and shall meet all requirements for Portland cement adopted by The American Society for Testing Materials.

SAND: The sand shall be washed clear and free from all foreign matter. It shall consist of hard durable particles that will not disintegrate when exposed to the weather, and shall pass through a six screen having square openings measuring one-fourth of an inch between wires.

GRAVEL: Gravel is defined as being a uniformly hard durable material that will not disintegrate when exposed to the weather. The maximum size of stone permitted in gravel one and one-half inches (1½") measured along the line of greatest dimension, and not to exceed five per cent shall pass a screen, having square openings measuring one-fourth of an inch between wires. No natural mixed aggregate pit-run or river gravel shall be used until the same has been screened, washed and remixed to agree with proportions specified.

PROPORTIONS: The concrete shall be mixed in proportions of One (1) sack of Portland cement, to two and one-half (2½) cubic feet of sand and four (4) cubic feet of gravel, a cubic yard of concrete in place shall contain not less than five and one-third (5½) sacks of cement, or less than 23½ sacks of cement to sixty (60") feet of the running surface of the sidewalk.

MIXING: Concrete shall be mixed in a batch mixer of a type approved by the city, and which admits of the accurate measurement of the materials, the number of revolutions and amount of water to be determined by the City Engineer. In lieu of machinery, the concrete may be mixed by hand as follows: A tight platform of evenly laid planks shall be provided, all materials for concrete mixture must be measured in properly sized boxes. Measuring with shovels or other approximation, will not be permitted. A correct portion of gravel shall be spread on the platform not more than eight inches deep, and shall be thoroughly wetted. In a separate box the correct portion of sand and cement is to be mixed dry until the whole mass is an even color, the mixture shall then be spread evenly over the wetted gravel and the whole shall be turned with shovels at least three times before adding water, and shall be thoroughly mixed after water is added, so that each stone and portion is well covered with mortar,
The concrete shall be immediately placed on the prepared subgrade, and shall at once be struck off and ramed and spaded next to the forms, and the top shall be rolled and floated, except as hereinbefore stated on slopes.

In hot weather the concrete shall be covered with earth or in some approved way kept moist for at least five days, when the covering shall be removed and air drying permitted.

Concrete shall not be mixed or deposited when the temperature is below 40 F., unless special precautions are taken, and work protected by canvas or some manner satisfactory to the City Engineer.

SECTION 3; All ordinances or parts of ordinances, relating to sidewalks, and the method of constructing the same, which are inconsistent with the provisions of this ordinance, are hereby repealed.

SECTION 314. This ordinance shall take effect and be in force five days after its passage and publication as provided by law.

Passed and approved July 31, 1919

Published

Attest

Mayor.

City Clerk.
Specifications for Construction of Concrete Sidewalks

REPEALED
BY ORD. 2005