ORDINANCE NO. 264

AN ORDINANCE REGULATING THE LAYING AND CONSTRUCTION OF SIDEWALKS, CURBS, WALLS, GUTTERS, CULVERTS AND STAIRS ON THE PUBLIC ROADS OF THE COUNTY OF SOLANO, AND PRESCRIBING THE PENALTY FOR THE VIOLATION OF SAID ORDINANCE.

BE IT ORDAINED BY THE BOARD OF SUPERVISORS OF THE COUNTY OF SOLANO, AS FOLLOWS:

SECTION 1.
Every person, firm or corporation carrying on the business of laying down, constructing or altering sidewalks, curbs, gutters, walls, culverts or stairs on the public roads of the County of Solano, before engaging in such business, must furnish a corporate surety or cash bond in favor of the County of Solano, in the sum of five hundred dollars ($500.00), for the faithful compliance with the provisions of this ordinance, which said bond shall be approved by the Chairman of the Board of Supervisors and the District Attorney, and filed in the office of the County Clerk.

SECTION 2.
It shall be unlawful for any person, firm or corporation to lay down, construct or alter, or cause to be laid down, constructed or altered, any sidewalks, curbs, gutters, walls, culverts or stairs on the public roads of the County of Solano without first having obtained a permit so to do, in writing, from the County Surveyor of the County of Solano, and paying for the same the fees hereinafter provided. The life of any such permit shall be ninety (90) days and any work done pursuant to said permit must be completed within ninety (90) days from the date of said permit.

SECTION 3.
The fee to be charged and paid for the permit provided for in the preceding Section shall be the following, to-wit:

For all curb and gutter work, and for all sidewalk work, where there is no existing curb, the fee shall be Ten Dollars ($10.00) for fifty (50) feet or less of frontage, and ten cents ($0.10) per foot for each additional foot of frontage in excess of fifty (50) feet. Otherwise such permit shall be issued without charge. Upon issuing such permit and receiving the fee for the same, the County Surveyor shall immediately set stakes and make a diagram indicating and fixing the official line and grade for the work covered by such permit.

Permits for the construction of stairs, walls and culverts, where no grades are necessary to be fixed, or where no diagrams are to be prepared by the County Surveyor, shall be issued without charge; otherwise, the fees hereinafore provided shall be charged and paid.

The County Surveyor shall collect all permit fees and forthwith deposit them in the County Treasury.

SECTION 4.
Any person, firm or corporation desiring to obtain such permit shall file with the said County Surveyor a written application therefor, which shall set forth the location of the property in front of which said sidewalks, curbs, gutters, walls, culverts or stairs are to be laid down, constructed or altered, the name of the owner of said property, the name of the person by whom, or the name of the firm or corporation by which, said work is to be done, the location and dimensions of said structures, and the materials of which the same are to be constructed.
SECTION 2.
Wherever it is necessary, in laying down, constructing or altering any sidewalks, curbs, gutters, walls, culverts or stairs on the public roads of said county to remove any portion of the existing earth, pavement or other materials for the purpose of construction, it shall be the duty of the person, firm or corporation doing said work, prior to the completion thereof, to dispose of the said existing earth, pavement or other materials so removed, either depositing the same on the property of the owner in front of whose property said work is done, or by depositing it upon the property of someone else whose permission and consent so to do have been first had and obtained, unless other disposition thereof on public streets or rights of way should be ordered by the County Surveyor. Such disposition as ordered by the County Surveyor shall not entail the hauling of said existing earth, pavement or other materials a distance greater than two thousand (2,000) feet.

SECTION 3.
It shall be the duty of every person, firm or corporation engaged in the laying down, constructing or altering of any sidewalks, curbs, gutters, walls, culverts or stairs on the public roads of the County of Solano, immediately upon the completion thereof, to remove all tools, equipment, lumber and other construction materials remaining after the completion of said work, as well as all dirt, rubbish or debris occasioned by said construction work, and to leave the portions of any street or sidewalk used in connection therewith in a condition of thorough cleanliness.

SECTION 4.
It shall be the duty of the said County Surveyor to inspect all sidewalks, curb, gutter, wall, culvert and stair work done, constructed or altered upon any permit issued by him immediately upon his being notified of the completion thereof, and to continue such inspection for so long as shall be necessary for the enforcement of the provisions of this Ordinance.

SECTION 5.
All concrete sidewalks, curbs and gutters shall be constructed in accordance with the permit issued therefor, and must fulfill the following specifications, to-wit:

General Provisions: All sidewalks and curbs and gutters shall be built of Portland Cement Concrete.

All materials used in the work shall comply with the specifications set forth herein.

The Contractor shall provide and maintain such fences and red lights or flares as may be necessary to prevent avoidable accidents to the public.

The Contractor shall stamp his name and the year it was built on the sidewalk or curb face at the beginning and end of each block, or shorter section, constructed by him. The letters shall not be smaller than three-quarters (3/4) inch in height, and shall be impressed into the curb to a depth of one-quarter (¼) inch.

No material or other obstruction shall be placed within ten (10) feet of fire hydrants, which must be at all times accessible to the Fire Department.

All wooden forms used in construction of sidewalk or curb and gutter shall be removed from the work upon completion.

Line and Grade: Concrete sidewalks or curbs and gutters shall be built to the true line and grade given by stakes set by the County Surveyor, or according to his directions.
Subgrade Preparation: The subgrade shall be constructed true to grade and cross-section, as shown on the plans or directed by the County Surveyor. It shall be thoroughly watered and rolled or hand tamped until hard and solid before placing the concrete. All material which the County Surveyor may deem objectionable shall be removed to a depth of not less than six (6) inches below subgrade elevation, and the resulting space filled with earth, sand or gravel of a quality that will pack when moistened. This material shall then be watered thoroughly and rolled or tamped until a firm and solid foundation is secured. The completed subgrade shall be tested for grade and cross-section by means of a template extending the full depth of the sidewalk or curb and gutter and supported between side forms. The subgrade and forms shall be thoroughly watered in advance of placing concrete.

When the sidewalk or curb and gutter is to rest on a fill, the material of which the fill consists shall be thoroughly compacted by watering and rolling or tamping in six (6) inch layers to the approval of the County Surveyor, and shall extend three and one-half (3½) feet behind the back face of the curb at subgrade level or two and one-half (2½) feet behind the edge of the sidewalk at subgrade level.

Forms: All forms shall be cleaned thoroughly each time they are used, and coated with a light oil as often as necessary to prevent the concrete from adhering to them. Before any concrete is poured, the forms must be inspected by the County Surveyor, who will mark "O.K." and his initials on the forms at each end of the work which is approved, and no concrete shall be poured into any forms which have not received this approval.

Curbs and Gutters: The width of forms for curbs shall be equal to the full depth of the curb. The width of outside forms for concrete gutters shall be equal to the full thickness of the gutter. Timber forms, if used, shall be surfaced on the side which is placed next to the concrete and shall not be less than one and five-eighths (1-5/8) inches thick after being surfaced. Warped forms and forms not having a smooth, straight upper edge shall not be used.

Forms shall be held rigidly in place by the use of iron stakes or other suitable stakes approved by the County Surveyor placed at intervals not to exceed four (4) feet. Clamps, spreaders and braces shall be used where required to insure rigidity in the forms.

Forms for curb returns may be made of one-half (½) inch benders, for the full height of the curb, cleated together. Curb forms shall be carefully set to alignment and grade and to conform to the dimensions of the curb. Forms shall be held rigidly in place by the use of pairs of iron stakes or other suitable stakes approved by the County Surveyor placed at intervals not to exceed two (2) feet. Clamps, spreaders and braces shall be used where required to insure rigidity in the forms.

In no event shall any form be removed while the concrete is sufficiently plastic to slump upon removal of the form.

Sidewalks: Timber forms for Portland Cement Concrete sidewalk shall be at least one and five-eighths (1-5/8) inches thick after being surfaced, with a true smooth upper edge and a width equal to the full depth of the finished side walk. They shall be set with the upper edge true to line and grade, and shall be held rigidly in place by stakes placed on the outside of the forms and set flush with the top edge of the form.
The sidewalk side forms shall not be removed in less than twelve (12) hours after the finishing has been completed.

**Concrete:**

**Mix:** Concrete shall contain six sacks of Portland Cement per cubic yard, and the aggregate shall be composed one part fine aggregate for every two parts coarse aggregate. The coarse aggregate used in the concrete shall range from one-quarter (¼) to one and one-half (1½) inches in size, and the fine aggregate must pass a one-quarter (¼) inch mesh. The amount of water used shall be sufficient to make a workable mix which can be well puddled in the forms but not sufficient water to cause the mortar to separate from the concrete. Concrete shall develop a minimum compressive strength of three thousand (3,000) pounds per square inch, after curing twenty-eight (28) days.

**Cement:** Portland Cement shall comply with the requirements of the A.S.T.M. Standard Specifications for Portland Cement, Designation C150, and shall be of the type specified in the Special Provisions or Plans.

When the type is not so specified, Type I Portland Cement shall be used.

When High Early Strength Cement is specified, Type III Portland Cement shall be used.

When White Portland Cement, or White Cement, is specified, the cement used shall comply with the requirements for Type I Portland Cement, and its chemical composition shall be such as to yield a white product upon setting. All cement shall be delivered at the work in good order in the original package, with the brand and the name of the manufacturer plainly marked thereon, unless shipped in bulk, in which case this information shall be contained in the shipping advices accompanying the shipment. Satisfactory means shall be provided to protect cement from dampness. A sack of cement shall contain ninety-four (94) pounds of cement net, and this quantity shall be considered as one cubic foot in volumetric proportioning.

**Fine Aggregate or Sand:** Sand, for concrete and mortar in curbs shall be clean, sharp, dry, silicious sand, and shall not contain, in all, more than five (5) per cent by volume, of clay, loam, mica, shale, silt or other objectionable inorganic matter, nor more than one (1) per cent of organic matter. It shall be made up of grains whose composition shall be such that all shall pass a four (4) mesh screen, not less than thirty (30) per cent nor more than ninety (90) per cent by weight shall pass through a twenty (20) mesh screen, not more than thirty (30) per cent shall pass through a fifty (50) mesh screen, and not more than five (5) per cent shall pass through a one hundred (100) mesh screen.

**Coarse Aggregate:** Stone or gravel, for concrete in curbs, shall be hard, tough, and close-grained, shall be free from stone dust, loam, clay, shale or other inferior materials, and shall be that portion of the crusher run (or natural deposit where gravel is used) that passes through a screen having circular openings one and one-half (1½) inches in diameter and is retained upon a screen having circular openings one-quarter (¼) inch in diameter. All material passing the four (4) mesh screen will be considered as sand.
Expansion Joints: Expansion joints shall be installed at intervals of twenty (20) feet center to center. Expansion joints shall be installed at right angles to the line of the sidewalk or curb and gutter. Expansion joints shall be installed in sidewalks or curbs and gutters at the ends of all returns.

Expansion joints shall be filled with premolded strips one-half (½) inch thick. The expansion joint filler shall be shaped to the cross-section of the sidewalks or curbs and gutters.

Expansion joint filler shall consist of premolded strips of durable resilient compound composed of mineral or vegetable matter or a stable mixture of these elements. Where stiffness is lacking, the strips shall be encased in saturated felt, asphalt impregnated cotton webbing or other satisfactory material. Any material or fabric used for encasement shall be firmly sealed to the body of the joint filler and shall not be detached therefrom after immersion in water for a period of forty-eight (48) hours.

The thickness of the joint filler shall be not less than one-half (½) inch unless otherwise specified.

Unless specifically designated in the special provisions, joint filler may be either of the two types designated below:


Testing of premold expansion joint filler shall be in accordance with the American Association of State Highway Officials' Standard Method T-42-38.

Construction:

Curbs and Gutters: In constructing curbs, entrances shall be provided for garages or driveways to replace former facilities. The entrances shall be of the dimensions designated by the Engineer, and the curb shall be cut away to one (1) inch above the gutter grade. The top of the curb at entrances of driveways shall be finished on a slope, the back edge being one (1) inch higher than the front edge.

Where the plans provide for reconstruction of existing curb and gutter, and the limit of new work specified does not fall on a scoring line, the entire section shall be removed and the new curb and gutter shall join the old curb and gutter at the first scoring line beyond said specified limit.

Concrete shall be placed in the forms in layers not exceeding six (6) inches in depth. The forms shall be filled to the top and the concrete thoroughly spaded away from them until there are no rock pockets at either form.

Immediately after removing the front curb forms, the face of the curb shall be troweled smooth, and then finished with a steel trowel. The top shall be edged and the front and back edges rounded as shown on the plans. An edging tool shall be used at all expansion joints.

After the face of the curb and gutter has been troweled smooth, it shall be given a final fine brush finish with brush strokes parallel to the top of the curb.

The face of the finished curb and gutter shall be true and straight, and the top surface of curbs and gutters shall be of uniform width, free from humps, sags or other irregularities. When a straight edge ten (10) feet long is laid on the top or face of
the curb or on the surface of gutters, the surface shall not vary more than one-eighth (1/8) inch from the edge of the straight edge, except at grade changes or curves.

When roll curbs and gutters are to be constructed, they shall be constructed as shown on the plans or as directed by the County Surveyor. They shall be constructed by installing emplets true to cross-section as shown on the plans at intervals of ten (10) feet by screeding the surface with a rigid straight edge parallel with the top of the curb.

Sidewalks: Sidewalks shall be four (4) inches thick, the width and position determined by the County Surveyor. Immediately before placing concrete the forms and subgrade shall be thoroughly wetted. After the concrete has been placed, it shall be thoroughly tamped so that the mortar will flush to the top and the surface shall then be struck off with a straight edge. While the concrete is still fresh, dry mortar composed of one part of cement to two parts of sand shall be added to the surface of the sidewalk. This mortar shall be thoroughly worked into the concrete so as to produce a homogeneous mass, and finished with a steel trowel to a true and uniform surface, after which the smooth surface shall be brushed transversely across the sidewalk with a bristle brush to produce a uniform, no-skid texture.

Sidewalk surfaces shall be laid out in clocks with an approved grooving tool as shown on the plans or as directed by the County Surveyor. An edging tool shall be used on all edges and at all expansion joints.

Curing: Sidewalks, curbs, gutters, walls, culverts or stairs shall be cured by covering with earth or burlap and by keeping moist to the approval of the County Surveyor for a period of eight (8) days, or by the use of an impervious membrane approved by the County Surveyor. When using an impervious membrane for curing, the coating shall be applied immediately upon removal of the forms, under pressure by means of a spray nozzle or atomizer in such a manner so as to cover the entire surface with a uniform film and in sufficient quantity to thoroughly seal the surface of the concrete.

As soon as the back forms have been removed from the curbs, the back of the curb shall be protected with wet earth to the full height of the curb. Where sidewalk area is below grade, the back of the curb shall be temporarily protected with wet earth to the full height of the curb and with a berm at least twenty-four (24) inches wide. Where sidewalk is constructed on fill, it shall be protected with wet earth to the full height of the sidewalk with a berm at least twenty-four (24) inches wide.

SECTION 9: If within twelve (12) months after the completion of the sidewalk or curb and gutter called for in the permit, such sidewalk or curb and gutter should break, disintegrate or otherwise fail, then the County Surveyor of the County of Solano shall notify the person, firm or corporation (hereinafter called "party") to whom said permit was granted, of such break, disintegration or failure, specifying also the repair needs, and that said party shall within ten (10) days from the date of the notice make such repairs required.

Should said party so notified fail to make the required repairs within ten (10) days, the County Surveyor shall send a second notice similar to the first to said party.

Should said party fail to do said work within the second period of ten (10) days, the, upon the expiration of said ten (10) days, the County Surveyor shall cause said work to be done and keep an accurate record of the cost of labor and material used on said work. Upon the completion of said work, the County Surveyor shall send a bill for the
costs of said work to said party, specifying that said bill shall be paid within thirty (30) days from the date thereof, and a duplicate thereof to the County Auditor.

Should said party fail to pay said bill within said thirty (30) days, it shall be the duty of the County Surveyor to notify the Board of Supervisors of said County to that effect, whereupon the Board of Supervisors may declare said bond forfeited to the County of Solano.

The County Clerk and District Attorney of the County of Solano shall then proceed to collect the amount of said bond from the sureties thereon. Upon the collection of the amount of said bond, the money shall be deposited in the office of the County Treasurer of the County of Solano in the fund designated by the County Auditor and a warrant drawn by the County Auditor for the difference between the amount collected on the bond and said bill of costs in favor of said party.

SECTION 10: Any person who, or any firm or corporation which, shall violate or neglect, or refuse to comply with any of the provisions of this ordinance, shall be guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine of not less than ten (10) or more than sixty (60) Dollars (and in default of the payment of said fine, shall be imprisoned in the County Jail not less than ten (10) nor more than sixty (60) days,) or by both such fine and imprisonment.

SECTION 11: All ordinances or parts of ordinances in conflict herewith are hereby repealed.

SECTION 12: This ordinance shall be published once on or before the eighth day after its passage in Times-Mermaid, a newspaper printed, published and circulated in the County of Solano.

ATTEST:

LEWIS MORRILL
County Clerk and ex-officio Clerk of the Board of Supervisors of said County of Solano, State of California.

DAN FOLEY
Chairman of the Board of Supervisors of the County of Solano, State of California.

I, LEWIS MORRILL, County Clerk of the County of Solano, State of California, and ex-officio Clerk of the Board of Supervisors of said County of Solano do hereby certify that the above and foregoing Ordinance was regularly introduced, passed and adopted at a regular session of said Board of Supervisors held on the 1st day of August, 1944, by the following vote:

AYES: Supervisors Brown, O'Grady, Rule, Schmeiser and Foley.

NOES: Supervisors NONE

ABSENT: Supervisors NONE

WITNESS by hand and the Seal of said Board this 31st day of August, 1944.

LEWIS MORRILL
CLERK.