

Ordinance 65-2

Subdivision of Land

4/12/1965

ORDINANCE NO. 65-2

AN ORDINANCE OF THE TOWNSHIP OF HOPEWELL, BEAVER COUNTY, PENNSYLVANIA, AMENDING ARTICLE VI, SECTION 600-C OF ORDINANCE NO. 58-12, KNOWN AS HOPEWELL TOWNSHIP RULES AND REGULATIONS FOR THE SUBDIVISION OF LAND, BY FURTHER PROVIDING FOR EXTRUDED CONCRETE CURBS AND SPECIFICATIONS.

BE IT ORDAINED AND ENACTED by the Board of Commissioners of Hopewell Township, Beaver County, Pennsylvania and it is hereby ordained and enacted by authority of the same:

1. That Article VI, Section 600-C of Ordinance 58-12, known as Hopewell Township Rules and Regulations for the Subdivision of Land, which reads as follows:

"C. Curbing: Shall be concrete of the following types:
(1) Straight 8" x 24". (2) Battered 6" x 8" x 18". (3) Rolled curb.
(4) Combined curb and sidewalk." shall be amended to read as follows:

"C. Curbing: Shall be concrete of the following types:
(1) Straight 8" x 24". (2) Battered 6" x 8" x 18". (3) Rolled curb.
(4) Combined curb and sidewalk. (5) Extruded concrete curb, in accordance with Extruded Concrete Curb Specifications constituted herein and incorporated by reference hereto and on file for examination at the office of the Secretary of Hopewell Township, Hopewell Township Municipal Building, Clark Boulevard, Aliquippa, Pennsylvania.

(Attach copy here)

2. All ordinances or parts of ordinances conflicting with the provisions of this ordinance are hereby repealed to the extent of such conflict.

ORDAINED AND ENACTED into an Ordinance this 12th day of April, 1965.

BOARD OF COMMISSIONERS
HOPEWELL TOWNSHIP

By Paul Doughty
President.

ATTEST:

Charlotte M. Buffington
Secretary.

(SEAL)

EXTRUDED CONCRETE CURB SPECIFICATIONS

(a) All curbs noted on drawings as extruded concrete curbs shall be placed by using an extrusion machine.

(b) The combined mineral aggregate for the concrete placed by the extrusion method shall be of such size that the percentage composition by weight will conform to one of the following gradings, at the option of the Contractor:

PERCENTAGE PASSING SIEVES

<u>Sieve Sizes</u>	<u>3/4" Maximum</u>	<u>3/8" Maximum</u>
1"	100	---
3/4"	90-100	---
1/2"	---	100
3/8"	60-80	85-100
No. 4	40-60	60-80
No. 8	30-45	40-60
No. 16	20-35	25-40
No. 30	13-23	15-25
No. 50	5-15	6-16
No. 100	1-5	1-5
No. 200	0-2	0-2

The above grading limits shall be further restricted if necessary to produce concrete that after extrusion has well defined web marks of water on the surface and is free from surface pits larger than 3/16" in diameter.

If the 3/4" maximum grading is used, the concrete shall contain a minimum of five sacks (470 lbs.) of cement per cu. yd. If the 3/8" maximum grading is used, the concrete shall contain a minimum of 6 sacks (564 lbs.) of cement per cu. yd. An air-entraining agent shall be added during mixing in an amount to produce from 5 to 8 per cent air by volume in the mixed concrete.

(c) The concrete shall be of such consistency that after extrusion, it will maintain the shape of the curb section without support. It shall contain the maximum amount of water that will permit this result and in no case shall the amount of mixing water be less than will result in compliance with the following requirements:

A sufficient quantity of the mixed concrete shall be placed in a sheet metal can 6" in diameter and 12" in height to fill it to a depth of approximately 4" in loose condition. The can shall then be raised to a height of 3" and allowed to drop freely onto a firm base such as a concrete slab, a total of 15 times. At the conclusion of this operation the concrete shall be well consolidated with a film of free moisture visible on the surface, shall be disregarded provided its average depth does not exceed 1/4".

The completed subgrade shall be tested for grade and cross section by methods approved by the Engineer.

(d) In lieu of placing dowels and bar reinforcing steel and in advance of placing curbs on an existing pavement or base, the surface shall be thoroughly cleaned and the adhesive specified below shall be applied. Cleaning of the pavement or base shall be accomplished by wire brushing or by blast cleaning if the latter method is ordered by the Engineer. The cleaning surface shall be free from dust, loose material and oil.

(e) The adhesive shall be Colma Bonding Compound manufactured by Sika Chemical Corporation or equal as approved by the Engineer and shall consist of two components which shall be mixed together at the site of the work. The adhesive proposed for use shall have been used successfully in similar work over the past two years.

(f) The fillers and pigments of each component shall be uniformly and thoroughly dispersed. At the time of use, there shall be no settling in the container that cannot be redispersed by manual or power stirring. Each component shall be packaged separately in containers of 5 gallons capacity or less. Each container shall bear a label designating the component contained. The label will state that the two components shall be mixed in the proportions of one part by volume of Component A to 1 part by volume of Component B. The label shall also state that the contents shall be thoroughly stirred to a uniform consistency immediately before any portion thereof is removed. The label shall state that the adhesive components should be stored at a temperature between 70°F. and 80°F. the night before use to provide proper viscosity for easy mixing.

(g) The adhesive shall be prepared at the site of the work in quantities no larger than can be applied and covered with extruded concrete within 30 minutes from the start of mixing. Each component shall be thoroughly stirred in its original container to a uniform consistency. One part by volume of Component A and one part by volume of Component B shall be transferred to a suitable container. The components shall be stirred together until a uniform color without streaks is obtained.

The mixed adhesive shall be applied promptly to the pavement or base in a strip approximately 4" wide located in the central portion of the contact width of the curb. The adhesive shall be applied at a uniform rate not in excess of 100 linear feet of 4" strip per gallon. Extruded concrete may be placed immediately following application of adhesive or not more than 30 minutes after the start of mixing the two components.

(h) The grade for the top of the curb shall be indicated by an offset guide line set by the Contractor from established survey marks. The forming tube portion of the extrusion machine shall be readily adjustable vertically

during the forward motion of the machine to provide when necessary, a variable height of curb conforming to the predetermined curb grade. A grade line gage or pointer shall be attached to the machine in such manner that a continual comparison can be made between the curb being placed and planned curb grade as indicated by the offset guide line.

In lieu of the above method of maintaining the curb grade, the extrusion machine may be operated on rails or forms set at uniform depth below the predetermined finished top of curb grade.

(i) Concrete shall be fed to the machine at a uniform rate. The machine shall be operated under sufficient uniform restraint to forward motion to produce a well compacted mass of concrete free from surface pits larger than 3/16" in diameter and requiring no further finishing, other than light brushing with a brush filled with water only. Finishing with a brush application of grout will not be permitted.

(j) Expansion joints shall be constructed by sawing through the curb section to its full depth. The width of the cut shall be such as to admit the joint filler herein specified with a snug fit. Premolded joint filler shall be inserted and grouted in place.

If sawing is performed before the concrete has hardened, the adjacent portions of the curb shall be supported firmly with close fitting shields. The operations of sawing and inserting the joint filler shall be completed before the concrete has reached the condition specified below for the application of curing compound.

If sawing is performed after the concrete has hardened, the joint filler shall be grouted in place with heavy trowel pressure. The exposed faces of the curb in the vicinity of the joint shall be flooded with curing compound as specified below and be maintained in an unbroken condition for 72 hours.

(k) Immediately after free water has disappeared from the surface of the concrete all exposed surfaces of the curb shall be sprayed with transparent curing compound with fugitive dye as hereinbefore specified or with white pigmented curing compound meeting the requirements of A.A.S.H.O. Designation M-148, Type I or Type II, respectively. The type of compound used shall be that ordered by the Engineer. The compound shall be applied at a rate sufficient to flood the surface of the curb. The film of compound shall be maintained in an unbroken condition for a period of 72 hours.

At the conclusion of the curing period, the filler in each joint shall be checked for tightness of fit. Any joint containing loose filler shall be again grouted in place and the grouting shall be given an application of curing compound which shall be maintained in an unbroken condition for 72 hours.

Proof of Publication

The Beaver County Times a daily newspaper of general circulation, published by BEAVER NEWSPAPERS, Inc., a Pennsylvania corporation, 400 Fair Avenue, West Bridgewater, Beaver County, Pennsylvania, was established in 1946, and has been issued regularly, except legal holidays, since said date.

The attached advertisement, which is exactly as printed and published, was published in the regular issue of said newspaper, on April 22, 1965

The cost of advertising and proof, \$ 25.50, has been paid. May 14, 1965

BEAVER NEWSPAPERS, Inc.

By James R. Miller
(Per M.M.)

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1. That Article VI, Section 600-C of Ordinance 58-12, known as Hopewell Township Rules and Regulations for the Subdivision of Land, which reads as follows:
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(Attach copy here)
2. All ordinances or parts of ordinances conflicting with the provisions of this ordinance are hereby repealed to the extent of such conflict.
ORDAINED AND ENACTED into an Ordinance this 12th day of April, 1965.
BOARD OF COMMISSIONERS,
HOPEWELL TOWNSHIP
By PAUL DOUGHTY, President.
ATTEST:
CHARLOTTE M. BUFFINGTON
Secretary,
(SEAL)
4/22

STATE OF PENNSYLVANIA, }
COUNTY OF BEAVER, } SS:

Before me, a Notary Public in and for said county and state, personally appeared James R. Miller, who being duly sworn

according to law says that he is Secretary-Treasurer of BEAVER NEWSPAPERS, Inc.; that neither affiant nor said corporation is interested in the subject matter of the attached advertisement; and that all of the allegations of the foregoing statement including those as to the time, place and character of publication are true.

James R. Miller
Secretary-Treasurer

Sworn to and subscribed before me

this 22 day of April, 19 65

Maude F. McBrier

MAUDE F. MCBRIER NOTARY PUBLIC
My Commission Expires March 5, 1969
Beaver, Pa. Beaver County