

STANDARD SPECIFICATIONS FOR DEVELOPERS
TOWNSHIP OF CENTRE, COUNTY OF BERKS, PENNSYLVANIA
STREET CONSTRUCTION

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These specifications as referenced to in Ordinance No. 19-1978 are hereby adopted by resolution at the Board of Supervisors meeting on date indicated below.

Township Secretary

~~July 19, 1978~~
Date

STREET CONSTRUCTION

Section 1. GENERAL: All streets shall be constructed as hereafter outlined or as directed by the Township. The developer shall satisfy himself as to all requirements referred to herein, or to any requirements other than hereafter set forth.

The Township Roadmaster and Assistant Roadmaster shall inspect all work covered hereunder. Upon written notice from the Township Roadmaster as to defective work, replacement shall be at the Developers expense.

Section 2. MATERIALS: All materials shall meet the latest Pennsylvania Department of Transportation specifications. Township specifications shall take precedence should they differ from State specifications.

Section 3. CONSTRUCTION METHODS: Construction methods shall be in accordance with Penn DOT specifications. Finish wearing surface shall be applied after building construction is completed.

Section 4. TYPES OF PAVING: All streets in the Township of Centre shall be constructed in accordance with the specifications hereinafter set forth:

The street area to be constructed shall be sufficiently scarified in depth in order that a power blade can reshape existing surface. The scarified material shall then be reshaped to a uniform level surface.

The reshaped loose material shall be rolled with a ten ton, three-wheeled roller, until the surface is thoroughly compacted, as a sub-grade for the surface to be placed.

After the completion of the sub-grade, Penn DOT specification DL-2 Tar Primer shall be applied at the rate on one-half (1/2) gallon per square yard.

(1) **Application of Crushed Stone:** Crushed stone, size #3A shall be spread on the prepared subgrade, to such a depth that when compacted will have a depth of six (6) inches. It shall be lightly rolled, after which the surface shall be checked for correct grade. When the surface is correct, it shall be rolled with a ten ton, three-wheeled roller until firmly locked and keyed together.

(2) **Application of Stone Chips for Filling Void:** The course of stone prepared as above described shall then be covered with Penn Dot specification #2 crushed stone to fill the voids. It shall then be rolled lightly to key the stone after which the surface shall be checked for correct grade. All irregularities shall be corrected.

(3) **Application of Tar:** Upon the above-described surface, Emulsified Asphalt, Penn DOT specification #E-3 shall be applied, at the rate of one (1) gallon per square yard, and immediately covered with #1B stone chips for filling the voids, in a sufficient quantity to completely fill the voids. Rolling shall continue until the surface is thoroughly keyed together.

In the application of tar, asphalt or other liquid materials, care must be taken so that same will not be applied to the curbs and in the event of any application to the curb surface it shall be removed by the applying party.

(4) **Wearing Surface:** Asphaltic concrete, meeting Penn DOT specifications ID-2 shall be laid in two (2) courses with a mechanical paving machine and rolled with a 10 ton roller to a finished compressed surface of three inches in depth. On grade greater than 8%, finish surface shall be I D 2AH material.

Alternate Construction

(1) **Base Course:** Bituminous Concrete Base Course (BCBC) meeting Penn DOT specifications shall be laid with a mechanical paving machine and rolled with a 10 ton roller to a finish compressed surface of 4 in depth.

(2) **Wearing Surface:** Asphaltic Concrete, meeting Penn DOT specification I.D. 2 shall be laid in one course with a mechanical paving machine and rolled with a ten ton roller to a finish compressed surface of 1-1/2 in depth. On grades greater than 8%, finish surface shall be I.D. 2AH material.

In the application of tar, asphalt or other liquid materials, care must be taken so that same will not be applied to the curbs and in the event of any application to the curb surface, it shall be removed by the applying party.

Section 5. REQUIREMENTS FOR DEDICATION OF STREET FOR PUBLIC USE:

The Township of Centre will accept into the Township system only those streets which have been constructed in accordance with specifications and requirements of applicable sections hereof. Proof of compliance with the specifications and requirements of sections contained herein. Proof of compliance with the specifications and requirements hereon may be provided by requesting the Township Roadmaster and/or Assistant Roadmaster to inspect the work and supervising the work during construction and installation of same or by providing boring data acquired under the supervision of the Township Roadmaster and/or his Assistant Roadmaster.

Section 6. ACCEPTANCE OF DEDICATION OF STREET BY THE TOWNSHIP:

The Township may hereafter take into its road system any street constructed in accordance with these specifications upon receipt petition containing a general release infavor of the Township, duly executed by all of the abutting freeholders, requesting the Township to accept such street into the Township road system, providing that all other conditions imposed by the Second Class Township Code concerning the taking over of said streets are complied with.

Section 7. CURBING, SIDEWALKS, GUTTERS: Where applicable, the following shall maintain as to curbing, sidewalks and gutters.

(a) **Grades, Width and Spacing:** The grade to which every curb, gutter, sidewalk or driveway entrances shall be hereafter grades, constructed or repaired, shall be that fixed and designated by the Township roadmaster, or on approved, or on approved, recorded, Development Plan. The space between the street side of the curb and the street side of the paved portion of the sidewalk shall be four (4) feet, and a grass portion of the sidewalk shall be four (4) feet in all new developments or street construction. In already built up sections of the Township, existing conditions shall be taken into account by the Township Roadmaster in applying these regulations and in allowing any variance therefrom.

(b) **Drainage:** Finished sidewalks and curbs shall have a grade from the inner edge of the sidewalk to the outer edge of the curb of three-eighths inch (3/8) to the foot.

(c) **Inspections:** All work performed shall be inspected by the Township Roadmaster, and/or Assistant Roadmaster if unavailable, by any of the Board of Supervisors, or by a person designated by them.

(d) **Open Gutters:** No open gutters for conducting rain water or drainage of any kind shall be permitted on the sidewalks or curbs.

(e) **Permits:** No person or persons, firm or corporation, shall construct or repair any sidewalk, curb, gutter or driveway entrance without first making application for an obtaining a permit from the Ordinance Enforcement Officer. The application for permit shall set forth:

- (1) The full name and address of the owners of the land affected;
- (2) The name and address of the contractor, of the person who is to perform the work,
- (3) The precise location of the property upon which the work is to be performed;
- (4) The nature and the length of the proposed project, and such other an pertinenet information as may be considred necessary by the Township Roadmaster

A permit shall be efective for a period of ninety (90) days from date of issuance, and prior to expiration, may be renewed by the Engineer for an additional 90-day period without additional charge.

(f) **Fees:** Fees shall be as set by the Township.

(g) **Specifications:** All curbs, gutters, sidewalks and driveway entrances within street, road or alley area, shall be constructed or ready-mixed concrete with a minimum ultimate compressive strength of three thousand (3,000) psi at twenty-eight (28) days, or if mixed on the site the proportions by dry volume shall be one (1) part approved Portland Cement, two and one-quarter (2-1/4) parts clean sharp sand, three and one quarter (3-1/4) parts clean limestone or traprock with not more than six and one-half (6-1/2) gallons of water to one bag of cement. All concrete shall be thoroughly compacted by suitable means during the operation of placing, and shall be thoroughly worked in the corners of the forms. Exposed concrete surfaces shall be true and even, free from open or rough areas, depression or protections. The finish shall be of steel or wood float type. No patching will be permitted. Forms shall

be of wood or metal and constructed of materials sufficient in strength to hold the concrete without deforming. Forms shall be used at grade points in all cases.

Curbs or gutters constructed separately shall be made to the following specifications. The curb shall have a depth of not less than twenty-four (24) Inches and shall be constructed on a well tamped (4) inch broken stone base (slag may be substituted for the broken stone), and said curb shall be eight (8) inches thick at the top, and ten (10) inches thick at the bottom. The height of the curb above the gutter line shall be eight (8) inches. Expansion joints shall be placed every 35 feet with cleanout joints every 10 feet. Face of curb shall be rubbed with stone and sponge float to produce finished surface.

Sidewalks shall be not less than five (5) inches in thickness, and shall rest on a compact bed of broken stone or slag or cinders of a depth of at least four (4) inches.

In cold weather, adequate equipment shall be provided for heating the concrete materials and protecting the concrete during freezing or near-freezing weather. All concrete materials and all forms, filler and ground with which the concrete is to come in contact shall be free from frost, no frozen materials or materials containing ice shall be used.

Sidewalks shall have a cleanout joint every five (5) linear feet of work. Approved expansion joints shall be placed every thirty (30) linear feet or less of work.

The radii of corners at street intersections shall not be less than the distance between the outside face of the curbing and the street line. The radii of corners at intersections alleys of a width of more than fifteen (15) feet shall be ten (10) feet wide for a single driveway and twenty (20) feet wide for a double driveway. Curb radii at the driveways shall be determined as the distance from the outside face of the curbing to the inside edge of the pavement. The curbing shall be eight (8) inches thick and twenty-four (24) inches in depth. Driveway and curbing are to be constructed on a well tamped four (4) inch thick base of broken stone or slag.

Driveway entrances over sidewalk entrances at commercial and industrial properties shall comply with the foregoing and such additional requirements as may be prescribed from time to time by the Supervisors.

Section 8. STORM WATER PIPES: All storm water pipes installed within the Township of Centre and to be proposed for dedication to the Township with the associated street shall be constructed of reinforced concrete, and shall be of sufficient size to handle peak storm water flow during a one hundred year storm frequency.

Storm water pipes shall have concrete, Penn DOT approved catch basins with removable steel grates where said pipes intercept storm water runoff.

Storm water pipes shall have steel grating at discharge end or sufficient sizing to restrict the entrance of a six inch diameter sphere for safety precautions.

Section 9. GUIDERAILS: All streets designed hereafter shall have Penn DOT approved guiderails where the slope away from the Township right of way exceeds twenty-five percent. All guide rails shall be installed to Penn DOT specifications.

Section 10. SHOULDERS AND BANKS: All street designs shall include a three feet driveable shoulder, sloping away from the cartway edge at not less than ten percent slope and not more than eighteen percent slope, line depth of six inches or deeper as required by storm water calculations, for storm water control.

Slopes of banks relative to the street cross-section shall not exceed thirty percent and shall blend into the natural grade of the lot.

Section 11. TRAFFIC SIGNS: All streets shall have state approved traffic signs and safety signs and line painting as deemed necessary by the governing body prior to dedication by the Township.

Section 12. TRAFFIC STUDY: A traffic study shall be conducted by a Township approved agency of all new streets and affected Township streets in order to insure the maximum safety of all Township residents. The results of this study shall be incorporated into the design of new streets and modification of existing streets, the expense, all of which shall be borne by the subdivider and included in the subdivision improvements agreements.

Section 13. FILL MATERIAL: All right of way fill material shall be placed on subsoil and shall be compacted with a vibratory roller of ten ton or more capacity at each ten inch in depth layer. A

Township Official or Professional Engineer shall certify in writing that proper compaction has been completed to above specifications.

Section 14. MAIL BOXES: All mail boxes shall not be installed on Township property or right of way and the Township will not accept any liability or responsibility for placement or damages to mail boxes.

TOWNSHIP OF CENTRE

By: Wilmer P. Phillips

Chairman

By: Charles B. Borkey

Supervisor

By: Daniel Unterkofler

Supervisor

Attest: George C. Seifrit
Secretary of the Township of Centre