

HORSHAM TOWNSHIPS DETAILED CONCRETE SPECIFICATIONS

GENERAL – Plain cement concrete sidewalk shall be constructed in accordance with the Pennsylvania Department of Transportation Form 408 Specifications, Section 676, except where superseded by the following:

All Road Opening Permits (ROP) need to be issued and filed prior to the commencement of work. The execution of the ROP indicates that you have read and understand the terms listed below.

Contractor must establish and inspection time prior to the pouring of concrete by calling the Public Works Department during business hours at least 24 hours in advance. Please call the office at 215-672-6913 to make an appointment.

CONCRETE – Concrete to be used shall be PA DOT Class A (4000 PSI) from a certified central mix plant. The Township Engineer or his duly authorized representative must approve variations from this specification. Copies of material tickets are to be supplied to the inspector at time of inspection.

LINES AND GRADES – Where curb and/or sidewalk is non-existing, line and grade is to be obtained from the Township Engineer or his duly authorized representative.

DIMENSIONS – Curb shall not be less than 18” in depth, 7” wide on top and battered on the front face to a width of 8” at the bottom. The rear face shall be vertical. The top surface of the curb shall be finished with a slope of $\frac{1}{4}$ ” per foot toward the front face, and the edge where the front face meets the top shall be finished to a radius of 1”. The edge where the rear face meets the top shall be finished to a radius of $\frac{1}{4}$ ”.

Sidewalk shall be 4” thick in walkway areas, 6” thick across all driveways, and shall be replaced in existing width. Handicap curb cuts shall be 6” thick.

FORMS – Forms shall be of best quality steel or wood, free from warp or defects of any kind. Forms, which have become warped, bent or broken, shall not be used. Wood forms shall be made of 2” thick lumber, uniformly 4” wide for walkways and 6” wide for driveways. The inside of forms shall be coated with non-staining mineral oil or water before concrete is poured. Forms shall not be removed less than 12 hours after a pour is made.

PLACING CONCRETE AND FINISHING – The foundation shall be formed at the required depth below the grade. All soft, spongy or other suitable materials shall be removed from the sub grade, and the foundation shall be thoroughly compacted and finished to a firm uniform surface.

Concrete shall be finished to present a semi-smooth surface as obtained by the use of a wooden float or a light broom finish. All corners formed by the intersection of the vertical side with the horizontal surface of the walk shall be rounded to have a radius of $\frac{1}{4}$ ”, including the surface at the joints.

EXPANSION JOINTS

Sidewalk – $\frac{1}{2}$ ” Expansion joints shall be made every 4 feet (30ft max) - joint to be filled with a prepared bitumen and fiber expansion joint of approved quality meeting PADOT Specifications

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Publication 408, Section 705, for fiber joint filler. All joints shall be cut entirely through the block and shall be at right angles to the line of the walk and perpendicular to the surface. In driveway areas, the width of the 6" slab shall be divided equally unless a monolithic pour is used. **Curb** - ¾" Expansion joints shall be every 50 feet full depth in curbing. Contraction Joints (4ft Min – 10ft Max)

CURING AND PROTECTION – Concrete shall be protected from weather and trespassers for a period of at least 72 hours after final set and shall be kept covered with wet burlap, sisal-craft paper or equal, curing compound, or other approved methods for that period.

REMOVAL OF FORMS – Do not remove side forms until at least 12 hours after placing concrete. After removal of forms, fill minor honeycombed areas with mortar. As directed, remove and replace defective major honeycombed areas.

SEALING/CURING - Aquaron 2000 sealing/curing or approved equal must be placed as soon as forms are removed. If for some reason forms are not removed, sealing/curing must be placed as soon as concrete finishing is completed. The Township Representative must be notified prior to and be on site at the time sealing/curing is completed.

BACKFILLING – After the concrete has cured for at least 72 hours, the area adjacent to the sidewalk or curb shall be backfilled with acceptable materials and thoroughly compacted. All existing lawn and grass areas disturbed by the contractor shall be restored to its original condition.

Restoration of disturbed roadway shall be the responsibility of the contractor and shall conform to PADOT Specifications Publication 408: the opening shall be backfilled, compacted with 6" 2A-modified stone, 4" of ID-2 base course and 2" ID-2A wearing course. Both base and wearing courses shall be Type H Aggregate. Tack coat shall be applied to all vertical surfaces of existing curb and bituminous surfaces. Sealer shall be applied at curb line and at the joint between the existing and new paving.

APPROVED TYPE LIGHTED BARRICADES – Barricades shall be used to protect vehicular and pedestrian public from injury at all times until the forms are removed and backfilling is completed.

AMERICAN DISABILITIES ACT REQUIREMENT – Existing curbs at street corners shall be replaced with Handicapped Curb Cuts (ramps) in accordance with the ADA specifications whenever and wherever curb and/or sidewalk replacement at a corner is undertaken. ADA specifications are available from the Township upon request.