

CHAPTER 21
STREETS AND SIDEWALKS

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DRIVEWAY AND ROAD OCCUPANCY

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PART 1

DRIVEWAY AND ROAD OCCUPANCY

§21-101. SHORT TITLE

This Part shall be known and shall be cited as the “Upper Salford Township Driveway and Road Occupancy Ordinance.”

§21-102. DEFINITIONS

The following words and phrases, when used in this Part, shall be construed to mean the appropriate listed definitions unless otherwise clearly indicated in the text.

ACI – American Concrete Institute.

DRIVEWAY – every entrance or exit used by vehicular traffic to or from properties abutting a highway. The term includes proposed streets, lanes, alleys, courts, and ways.

1. **HIGH VOLUME DRIVEWAY** – A driveway normally used by more than one thousand five hundred (1,500) vehicles per day which often requires traffic signalization.
2. **LOW VOLUME DRIVEWAY** – a driveway normally used by more than twenty-five (25) vehicles but less than seven hundred fifty (750) vehicles per day, such as schools and offices.
3. **MEDIUM VOLUME DRIVEWAY** – a driveway normally used by more than seven hundred fifty (750) vehicles but less than one thousand five hundred (1,500) vehicles per day which does not normally require traffic signalization.
4. **MINIMUM USE DRIVEWAY** – a driveway normally used by not more than twenty-five (25) vehicles per day such as houses and small apartments.
5. **SHARED DRIVEWAY** – a driveway shared by two or more lots or parcels, whether by agreement, easement, license or other means or arrangements. Shared driveways for residential uses are not permitted.

DRIVEWAY WIDTH – the narrowest width of a driveway, measured perpendicularly to the centerline of the driveway.

EGRESS – the exit of vehicular traffic from abutting properties to a highway.

FRONTAGE WIDTH – the distance along the right-of-way line in front of an abutting property.

HIGHWAY – a highway or bridge on the system of Township roads and bridges, including the entire width between right-of-way lines, over which the Township has assumed or has been legislatively given jurisdiction.

IMPROVED AREA – the area within the right-of-way which has been constructed for highway purposes, including roadbed, pavement, shoulders, slope, sidewalks, drainage facilities, and other appurtenances.

INGRESS – the entrance of vehicular traffic to abutting properties from a highway.

INSPECTOR – the Township’s authorized representative assigned to inspect permit conditions.

PAVEMENT EDGE – the edge of the main traveled portion of any highway, exclusive of shoulder.

PENNDOT – Pennsylvania Department of Transportation.

PERMANENT CURBING – plain or reinforced cement concrete curb which meets Township standards.

PERMIT – a highway occupancy permit issued by the Township pursuant to this Part.

PLANS – drawings which show the location, character, and dimensions of the proposed occupancy and related highway features, including layouts, profiles, cross-sections, drainage, and other details.

PROPERTY LINE CLEARANCE – the distance measured along the pavement edge or curb between the property frontage boundary line and the near edge of the driveway.

RIGHT-OF-WAY – the area that has been acquired by the Township for highway purposes.

ROADWAY – that portion of a highway improved, designed, or ordinarily used for vehicular travel, exclusive of the sidewalk or shoulder. Includes any road, street, alley or way accepted by the Township.

SHOULDER – the portion of the roadway, contiguous to traffic lanes for accommodation of stopped vehicles, emergency use, and for lateral support of base and surface courses and pavements.

SHOULDER LINE – the intersection of the shoulder slope with the side slope or ditch slope.

SIDEWALK – a paved walkway, continuous for a reasonable distance, and an integral part of the highway, constructed solely for use by pedestrians.

STABILIZED MATERIAL – any aggregate such as aggregate cement, aggregate bituminous, or lime pozzolan, placed in such a manner as to provide a smooth, stable, all-weather surface, not subject to undue raveling.

STATE or COUNTY ROAD – every public highway other than a Township road.

STOPPING SIGHT DISTANCE – the distance required by a driver traveling at a given speed to stop the vehicle after an object on the roadway becomes visible to the driver.

TRAVELED WAY – the portion of the roadway for movement of vehicles, exclusive of shoulders and auxiliary lanes.

TRAFFIC CONTROL DEVICE – any sign, signal, marking, or device placed or erected for purposes of regulating, warning, or guiding vehicular traffic or pedestrians, or both.

§21-103. INTENT

It is the intent of this Part to regulate the construction, improvement, design, maintenance, location and drainage of all private accesses and other property on Township rights-of-way and ultimate rights-of-way for the purposes of security, economy of public maintenance, preservation of proper drainage, and safe and reasonable traffic flow. It is further intended to regulate all work performed within the right of way of the Township and on any roadway of the Township, as defined, including road opening for any purpose, including, without limitation the location of any utilities, conduit, or pipes or pipelines. Nothing contained in this Part is intended to relax safety requirements as may be set forth by PennDOT, which are incorporated herein by reference.

§21-104. APPLICATION

A. General Rule. . No drain, culvert, footpath, drive or driveway, or other means of ingress or egress shall be graded, constructed, reconstructed, installed or erected onto or in, nor any gas pipe, electric conduit or other piping laid upon or in, nor any telephone, telegraph, electric light or power pole, or any other obstruction be erected upon or in, nor shall any railroad or street railway or street railway crossing be, hereafter, constructed within any Township right-of-way, and no work shall be completed within any Township right-of-way or on, beneath or within any roadway, without a Township road occupancy permit.

B. Other Requirements.

1. Every owner of private access to a Township right-of-way shall, within ninety (90) days of the date of a written notice from the Upper Salford Township Board of Supervisors or an authorized representative of the Board, install or reconstruct such drainage pipes, conduits, gutters and drains, as are required by either the Township Road Superintendent or Township Engineer and set forth in the notice, to facilitate storm drainage.

2. If any owner of a private access shall fail to construct or reconstruct drainage pipes, conduits, gutters, drains, or such other drainage improvements in accordance with the specifications contained in said notice within ninety (90) days of receipt of written notice to do so, the Township shall construct or cause the same to be constructed or reconstructed, and shall charge the cost thereof to the owner of the access along with any additional penalty authorized by law. Such lien shall be filed in the manner provided by law for the filing and collection of municipal liens.
3. Issuance of a permit under the regulations of this Part does not relieve the permittee from obtaining any additional necessary Federal, State, or local permits or approvals as may be required by law. Nor does the permit intend to relax existing safety requirements.
4. Shared or joint driveways serving two or more residential properties or lots shall not be permitted. Shared or joint driveways for non-residential uses shall be permitted only in accordance with the provisions of Chapter 27, Zoning.

§21-105. PERMIT APPLICATION PROCEDURE - DRIVEWAY

A. Application Submission Procedure.

1. Application for a permit to grade, construct, reconstruct, install or erect such improvements as are set forth in §21-104 of this Part shall be made to an authorized representative of the Board of Supervisors.
2. Permit applications shall be submitted prior to the construction of any building which the proposed driveway will serve to assure that the driveway can be constructed in accordance with this Part.
3. Application is to be submitted at least thirty (30) days prior to commencement of work.
4. The application shall be accompanied by a fee, established in accordance with the current Fee Resolution for Highway Occupancy/Driveway Permits set forth by the Upper Salford Board of Supervisors.

B. Required Information. Applications shall be on a form supplied by the Township and shall include the following:

1. A signed, dated notarized application, submitted by the owner of the property to the Township office.
2. Proof of ownership.
3. Four (4) copies of the application and all supporting documentation and drawings including hydrologic and hydraulic analysis, when deemed necessary by the Township.
4. General plans showing (See Figure I for example.);

- a. Proposed location of and dimensions of facilities to be constructed or installed.
 - b. Widths of the cartway within the Township right-of-way and of the private accessway.
 - c. Township right-of-way lines.
 - d. Description of materials to be used and detail, or profile, of any paving courses to be laid.
 - e. Driveway grade, radii, points of curvature, and angle relative to Township cartway.
 - f. Distance to nearest street intersection.
 - g. Distance to nearest driveway adjacent to property, and opposite to property.
 - h. Features of the land opposite the site, including buildings and appurtenances.
 - i. Sight distance triangle for each proposed driveway.
 - j. Any relevant property lines.
 - k. Driveway grades or profile view of drive.
 - l. Location of all traffic control devices.
 - m. A statement of the number of vehicles per day that are expected to utilize the proposed driveway.
 - n. Soil erosion and sedimentation control facilities plan, if construction exceeds fifteen (15) days.
 - o. Compliance to §21-108 (12).
 - p. Such other information as the Township shall require.
5. Drainage Control Plans or Calculations for Other than Minimum Use Driveways.
 - a. If there can reasonably be anticipated that there will be increase in the flow of water onto the highway or into highway drainage facilities as a result of any action authorized by the permit, a drainage control plan shall be submitted with the application. The drainage control plan shall contain the following:
 - i. Source of water.
 - ii. Existing flow in cubic feet per second.
 - iii. Predicted flow in cubic feet per second.
 - iv. Where drainage currently flows.
 - v. Where drainage ultimately outlets.
 - vi. Hydraulic computations showing effect of additional flow on existing highway drainage system.
 - b. Issuance of a permit shall be conditioned upon the Township's approval of the drainage control plan.
6. Traffic Control Plan. Submission of a traffic control plan shall be as follows:

- a. When the applicant anticipates that it will be necessary to close a portion of a lane to vehicular traffic in order to perform the permitted work, the applicant shall submit a traffic control plan with the application.
- b. The Township may require the applicant to submit a traffic control plan if it is anticipated that a potential hazard or interference to vehicular or pedestrian traffic will result from performance of the work.
- c. The traffic control plan, prepared in accordance with PennDOT Bulletin 203, shall be either a detailed drawing, showing all traffic control devices or a reference to a standard drawing provided the referenced drawing properly depicts the work area and completely addresses the needed traffic control.

§21-106. PERMIT APPLICATION PROCEDURE – ROAD OPENING

A. Application Submission Process

1. Applicability – In accordance with the provisions of Section 2322 of the Second Class Township Code, as amended, no gas pipe, water pipe, electric conduits, cable TV, sewer pipe, drainage or stormwater management pipe or device or other piping, shall be laid upon or in nor shall any telephone, telegraph, or electric light or power poles or any other obstructions be erected upon or in any portion of a township Road except under such conditions, restrictions, and regulations relating to the installation and maintenance thereof, as may be prescribed in Road Occupancy Permits granted by the Township for such purpose.
2. Permit - The application for a Permit shall be on a form prescribed by the Township, and shall be accompanied by:
 - a. A fee in accordance with the Schedule of Fees for Road Occupancy Permits;
 - b. Three (3) copies of a sketch showing such dimensions as the location of the intended facility, width of the traveled Roadway, right-of-way lines and the distance to the nearest intersecting public street, road or highway; and
 - c. The Restoration and Maintenance Security required under Section C. herein below.
 - d. A Permit shall be issued to the applicant after all the aforementioned requirements have been filed and reviewed by Township Roadmaster.

- e. Upon completion of the Work, the applicant shall give written notice thereof to the Township, and the Township Roadmaster shall inspect the Work and, when necessary, enforce compliance with the conditions, restrictions and regulations prescribed by the Permit. Where any settlement or defect in the Work occurs, if the applicant shall fail to rectify any such settlement or other defect within thirty (30) days after written notice from the Township to do so, the Township may do the work and shall impose upon the applicant the costs thereof, together with an additional twenty (20%) per centum of such costs for administrative fees.

B. Restoration And Maintenance Security - Any person seeking a Permit to do Work on a Road shall provide Restoration and Maintenance Security pursuant to the following standards and rules:

1. The amount of security shall be determined by the Township Roadmaster to ensure restoration of the Road and maintenance of the restored area for a period of 6 months in the event of permittee's default to so restore or maintain the Work area as required in this Ordinance.
2. The security shall be submitted in the name of the Township in the form of cash, or a letter of credit issued by a bank maintaining an office in the Commonwealth of Pennsylvania, , all such instruments to be in form and substance acceptable to Township.
3. Cash security shall be held by the Township in a non-interest-bearing escrow bank account, and shall be returned to the permittee upon successful fulfillment of all restoration and maintenance obligations without interest.
4. The Board of Township Supervisors shall have the power to forfeit or otherwise seize and use the Restoration and Maintenance Security upon satisfactory proof of the permittee's default to be supplied by the Township Engineer. Said Board shall also have authority to reduce the amount of security upon successful completion of initial restoration on the recommendation of the Township Engineer.
5. The Board of Supervisors shall have the authority to waive the posting of Restoration and Maintenance Security hereunder where adequate provisions have been made otherwise for restoration and maintenance of the Work area.

C. Trenching Across Improved Area

1. Trenching shall not be permitted across the improved area of a Road unless specifically authorized by the Permit.
2. Trenching across the improved area of a Road may be authorized by the Permit where drilling, boring, driving or tunneling are not feasible because:
 - a. The subsurface is solid rock.

- b. There are other facilities located longitudinally under the improved area and their location precludes methods other than trenching.
 - c. Adjacent development in a very congested urban area makes the construction of a tunneling or boring shaft impossible.
 - d. Upon completion of any trenching, the roadway shall be restored in accordance with the conditions of the Permit, or as recommended by the Township Engineer after inspection. Where circumstances preclude immediate permanent restoration, the Township Roadmaster may authorize temporary restoration of the roadway. All permanent restoration shall be completed within thirty (30) days after substantial completion of the work, subject to extension as authorized by the Township Roadmaster.
3. If more than one (1) cross cut is made in a road, within five hundred (500') feet, the permit holder shall overlay the entire section between the cuts for the full roadway width.
- D. Traffic Control Plan. Submission of a traffic control plan shall be as follows:
- 1. When the applicant anticipates that it will be necessary to close a portion of a lane to vehicular traffic in order to perform the permitted work, the applicant shall submit a traffic control plan with the application.
 - 2. The Township may require the applicant to submit a traffic control plan if it is anticipated that a potential hazard or interference to vehicular or pedestrian traffic will result from performance of the work.
 - 3. The traffic control plan, prepared in accordance with PennDOT Bulletin 203, shall be either a detailed drawing, showing all traffic control devices or a reference to a standard drawing provided the referenced drawing properly depicts the work area and completely addresses the needed traffic control

§21-107. ISSUANCE, REJECTION, AND REVOCATION OF PERMITS

A. General.

- 1. Upon receipt of an application for Township road occupancy, the Board of Supervisors or its agent shall direct either the Township Roadmaster or the Township Engineer, or both, or such other agent as the Board may authorize to inspect the location where grading, construction, reconstruction, installation or erection has been proposed for the purpose of determining what facilities are suited to the location.
- 2. Upon receipt of a report from the inspecting officer, the Board of Supervisors or its agent shall issue a permit to the applicant. The permit shall be subject to this Chapter and the conditions contained on the permit and its

attachments and supplements. The permit will be the authority of the applicant to proceed with the work and will also serve as a receipt for the fees accompanying the application.

- B. Permit Ownership. Permits will be issued only to the owners of the property. Permits will not be issued to contractors of the property owner nor to any person other than the owner of the property.
- C. Waiver of Design Requirements. If any design requirement set forth in this Part cannot be met, the Board of Supervisors may waive the requirement if the following conditions are satisfied:
 - 1. No other reasonable access is available.
 - 2. The applicant has done all that can be reasonably done to satisfy the design requirements.
 - 3. If additional land is required, the applicant provides satisfactory evidence that it cannot be purchased at a current market value certified by a licensed appraiser.
 - 4. No traffic problem will be created.
- D. Permit Time Limit and Extension. A permit shall be valid for a six (6) month period or multiples thereof as specified on the permit. If the permittee has not completed all authorized work by the completion date specified on the permit, an application shall be submitted requesting a time extension. If approved, a supplement may be issued, authorizing work to continue for an additional six (6) month period. A maximum of three (3) renewals may be granted after which the permit shall be void.
- E. Work Completion Notification. When all permitted work has been completed, the permit owner shall notify, in writing, the Board of Supervisors or its agent.
- F. Rejection of Application. The Township Board of Supervisors or its authorized agent will examine and determine the genuineness, regularity, and legality of every application, and may reject any application if not satisfied of its genuineness, regularity, or legality, or the truth of any statement contained in the application. The Township may also make such investigations and require such additional information as it deems necessary.
- G. Revocation of Permit. Any violation of this Part or Township road occupancy permit requirements shall constitute grounds for the revocation of a Township road occupancy permit.

§21-108. GENERAL CONDITIONS

The following conditions shall apply to issued permits:

- A. The permit shall be binding upon the permittee, its agents, contractors, successors, and assigns. The permittee shall be responsible for causing compliance with all terms and conditions of the permit by its employees, agents and contractors.
- B. The permit shall be maintained by the permittee as a permanent record and remain in effect, subject to the permit conditions and this Part, as long as the driveway or the facility authorized by the permit exists.
- C. To protect the pavement and shoulders of existing Road surface, all equipment shall have rubber wheels or runners and shall have rubber, wood or similar protective pads between the outriggers and the surface unless otherwise authorized by the permit. In the event that other than rubber-equipped machinery is authorized for use, the pavement and shoulders shall be protected by the use of matting, wood or other suitable protective material having a minimum thickness of four (4) inches, unless the permit requires the permittee to repave the roadway full width. If the equipment damages the pavement or shoulders of the Roadway, the permittee shall restore the pavement or shoulders to their former condition, at the permittee's expense.
- D. Responsibility for compliance with the terms of the permit shall remain with the owner of the property.
- E. In granting a permit, the Board of Supervisors, or its authorized agent, will waive none of its power or rights to require the future change in operation, removal, relocation, or property maintenance of any access within the Township right-of-way.
- F. The permit shall be subject to any other applicable ordinances enacted by the Township which contain more stringent requirements than outlined in this Part.
- G. Permittee shall be principally liable to the Township for any failure to comply with the permit and this Part. Principal liability of permittee to the Township shall not preclude the permittee or the Township from bringing any action against the permittee's contractor, subcontractor, engineer, architect, or any other person.
- H. Maintenance and protection of traffic shall be carried out in accordance with the requirements of PennDOT publication §203.
- I. All disturbed portions of the highway, including slopes and all appurtenances and structures such as guard rails or drain pipes, shall be restored by permittee to a condition at least equal to that which existed before the start of any work authorized by the permit and in accordance with PennDOT 408 as last revised.
- J. Unless specifically authorized by the permit, permittee shall not:
 - 1. Alter the existing drainage pattern or the existing flow of drainage water.

2. Direct additional drainage of surface water onto or into the highway right-of-way or highway facilities in a way which would have a detrimental effect on the highway or highway facilities.
- K. Disposition of materials shall comply with the following:
1. Permittee shall keep the improved area free of all material which may be deposited by vehicles traveling upon or entering onto the highway during the performance of work authorized by the permit.
 2. Permittee shall be responsible for controlling dust conditions created by its operations.
 3. All excess material and material that is not suitable for backfill shall be removed and disposed of outside the right-of-way as the work progresses.
- L. Maintenance. All driveways, driveway pipes, drains, swales or other drainage facilities and adjacent areas within the highway right-of-way shall be continuously maintained and kept open by the property owner, his successors, and assigns, so as to conform to the permit and so as not to interfere or be inconsistent with the design, maintenance, and drainage of the highway, or the safe and convenient passage of traffic upon the highway.
- M. Indemnification. Permittee shall fully indemnify and save harmless and defend the Township, its agents and employees, of and from all liability for damages or injury occurring to any person or persons or property through or in consequence of any act or omission of any contractor, agent, servant, employee, or persons engaged or employed, about, or upon the work, by, at the instance, or with the approval or consent of the permittee; from any failure of the permittee or any such person to comply with the permit or this Part; and, for a period of two (2) years after completion of the permitted work, from the failure of the highway in the immediate area of the work performed under the permit where there is no similar failure of the highway beyond the area adjacent to the area of the permitted work.

§21-109. DRIVEWAY DESIGN REQUIREMENTS

A. General Location Restrictions.

1. All driveways shall be located, designed, constructed, and maintained in such a manner as not to interfere or be inconsistent with the design, maintenance and drainage of the highway.
2. Accessways to Township rights-of-way will be permitted at locations in which:
 - a. Sight distance is adequate to safely allow each permitted movement to be made into or out of the access driveway.

- b. The driveway will not create a hazard.
- c. The driveway will not create an area of undue traffic congestion on the highway.

B. Driveway Design Requirements.

- 1. Traffic Control Interference. Driveways shall not be permitted at locations that would interfere with the placement and property functioning of roadway signs, signals, detectors, lighting or other devices that affect traffic control.
- 2. Access to a property which abuts two (2) or more intersecting streets may be restricted to only that roadway which can more safely accommodate its traffic.
- 3. Driveways shall have a minimum entrance radius of ten (10) feet.

C. Numbers of Driveways.

- 1. Normally, only one (1) driveway will be permitted for a residential property and not more than two (2) driveways will be permitted for a non-residential property.
- 2. If the property frontage exceeds three hundred (300) feet, the permit may authorize an additional driveway.

D. Angle of Access. Access driveway approaches used for two (2)-way operation shall be positioned at right angles, that is, ninety (90) degrees, to the highway or as near thereto as site conditions permit, except as authorized in Figure II.

E. Driveway Adjacent to Intersections. Driveways serving properties located adjacent to a highway intersection shall be subject to the following:

- 1. The distance from the edge of pavement of the intersecting highway to the radius of the first permitted driveway shall be a minimum of forty (40) feet on curbed highways and fifty (50) feet on uncurbed highways.
- 2. Subsections (1) and (2) of this Section may be waived only if the intersecting highway radius extends along the property frontage to the extent that compliance is physically impossible.

F. Property Line Clearance. Except for joint-use driveways, no portion of any access shall be located outside of the property frontage boundary line.

G. Curbing.

1. The permit may require the installation of curbing wherever it is required to control access or drainage, or both. All curbing must be permanent curbing, as defined in the Upper Salford Township Subdivision Ordinance [Chapter 22].
2. Where property abutting the right-of-way line could be used as parking area, the permit may require curbing, permanent guide rail, or fencing to be constructed along the right-of-way line in order to prohibit vehicle encroachment upon the sidewalk or shoulder area.
3. If, in the opinion of the Board of Supervisors, there is a high probability that vehicles would otherwise utilize a portion of the property frontage other than the approved driveway to gain access to the property, the permit may require curbing or other physical barriers to be constructed.
4. When curb exists adjacent to the proposed driveway, the line and grade of the existing curb shall be matched, unless otherwise authorized by the permit.

H. Sight Distance. Conditions for sight distance shall be as follows:

1. Access driveways shall be located at a point within the property frontage limits which provides at least the minimum sight distance as derived using the following formula:

$$SSSD = 1.47 Vt = \frac{V^2}{30 (f+g)}$$

SSSD = Minimum safe stopping sight distance (feet).

Measured ten (10) feet back of the pavement edge and three and one-half (3 ½) feet above finished grade.

V = Velocity of vehicle (miles per hour).

t = Perception time of motorist (average – 2.5 seconds).

f = Wet friction of pavement (average – 0.30).

g = Percent grade of roadway divided by one hundred (100).

For level roadways and driveways, this formula calculates as follows:

<u>Posted Speed</u>	<u>Safe Sight Distance</u>
25 mph	162'
30 mph	211'
35 mph	265'
40 mph	325'
45 mph	391'

50 mph	462'
55 mph	539'

2. The sight distances listed in the preceding table apply only when highway grades are zero to three (3) percent, either up or down.
 - a. When the highway grade in the section to be used for acceleration after leaving the driveway, ascents at three and one-half (3 ½) percent, the sight distance in the direction of approaching ascending traffic may be increased by a factor of one and four-tenths (1 4/10).
 - b. When the highway grade ascends to greater than five (5) percent, sight distance may be increased by a factor of one and seven-tenths (1 7/10).
 - c. When the highway grade in the section to be used for acceleration after leaving the driveway descends at three and one-half (3 ½) percent, sight distance in the direction of approaching descending highway traffic may be reduced by a factor of six-tenths (6/10).
 - d. When the road descends at greater than five (5%) percent, sight distance may be reduced by a factor of five-tenths (5/10) percent.
3. If sight distance requirements cannot be met, the Township may:
 - a. Prohibit left turns by exiting vehicles.
 - b. Restrict turning movements to right turns in and out of a driveway.
 - c. Require installation of a right turn acceleration lane or deceleration lane.
 - d. Require installation of a separate left turn standby lane.
 - e. Alter the horizontal or vertical geometry of the cartway.
 - f. Deny access to the Township right-of-way.

I. Driveway Grade.

1. All driveways shall be constructed so as not to impair drainage within the Township right-of-way, alter the stability of the area or change the drainage of adjacent areas.
2. The side slopes for driveway embankments within a Township right-of-way shall not be steeper than ten (10) to one (1). (See Figure III).
3. Grade requirements in uncurbed shoulders within a Township right-of-way shall conform to Figure IV.

4. Grade requirements where curbs and/or sidewalks are present are as follows:

- a. The driveway approaches shall be installed one and one-half (1 ½) inch above the adjacent roadway or the gutter grade to maintain proper drainage.
- b. The difference between the cross slope of the roadway and the upward grade of the driveway approach shall not exceed eight (8) percent.
- c. Sidewalk grade requirements shall conform to the most recent PennDOT regulations governing access to and occupancy of highways by driveways and local roads.

J. Driveway Drainage.

1. Driveways shall be installed such that all surface water flowing along the driveway toward a Township right-of-way shall enter the gutter system. It shall be a violation of this Part to create a flow of surface water onto a Township roadway.
2. No driveway shall be designed or installed such as to direct toward a right-of-way any surface water which, previously, had been directed away from the right-of-way.
3. Stormwater drainage shall pass the driveway at a level consistent with that of the existing gutter system.
4. Swale or pipe size, location and configuration shall be sufficient to carry surface water runoff conducted by the existing roadside gutter system in addition to any runoff that can be anticipated to be reasonable.
 - a. No pipe shall be installed with a diameter or less than fifteen (15) inches unless approved by the Township Road Superintendent.
 - b. No pipe shall be longer than that which meets with the approval of the Township Road Superintendent.
 - c. Any steel culverts installed beneath a driveway shall be a minimum sixty-four one-hundredths (0.64) inches in thickness and have a minimum of twelve (12) inches of cover. If the pipe is aluminum, thickness shall be increased to a minimum seventy-nine one-hundredths (.079) inch in thickness.

K. Paving Driveway Entrances.

1. Every driveway shall be paved from the point where it joins with the Township cartway to the Township right-of-way line.

2. Paving materials shall consist of PennDOT specified materials and may be as follows:

- a. Four (4) -inch 2A modified stone base, four (4) -inch bituminous concrete base, one and one-half (1 ½) -inch ID-2 wearing surface.
- b. Six (6) -inch 2A stone base, one and one-half (1 ½) -inch ID-2 binder, one (1) -inch wearing surface.
- c. Brick precast concrete slab, or concrete of dimensions as specified by ACI for appropriate design conditions and as approved by the Township or its agent.

3. Sub-grade should be prepared with consideration of soil type.

L. Turnaround Area. An apron turnaround shall be provided along a driveway so that vehicles can enter the Township right-of-way front-first.

M. Recommendations for Emergency Vehicles. It is recommended that in order to assure access for emergency vehicles and equipment, all new driveway installation shall comply with the following:

1. No curves in the drive shall have less than a thirty-five (35) -inch radius arc.
2. No tree limbs or other obstruction should overhang a driveway unless such overhanging obstruction is greater than twelve (12) -feet in height.

N. Additional Driveway Requirements. When it will serve to protect and preserve the Township road system, and is therefore in the public interest, the Township Road Superintendent or the Township Board of Supervisors may specify standards for construction or reconstruction of the following:

1. The angle at which a driveway approach is positioned with respect to a Township right-of-way.
2. Curbing.
3. Auxiliary lanes.
4. Shoulder upgrading.
5. Traffic control devices.
6. Hydraulic and hydrologic analysis for stormwater handling including details for devices which will provide water from existing driveways onto roadway system.

§21-110. INSPECTION

Upon completion of work authorized by a Township road occupancy permit, an applicant shall give written notice thereof to the Township, and an authorized representative of the Board of Supervisors shall inspect the work for compliance with the conditions, restrictions and regulations set forth by the permit.

§21-111. PENALTIES

Any person, firm or corporation who shall violate any provision of this Part shall, upon conviction thereof, be sentenced to pay a fine of not more than one thousand (\$1,000.00) dollars plus costs and, in default of payment of said fine and costs, to a term of imprisonment not to exceed thirty (30) days. Each day a violation of this Part shall continue shall be deemed a separate offense.

Figure I – Typical Application Sketch

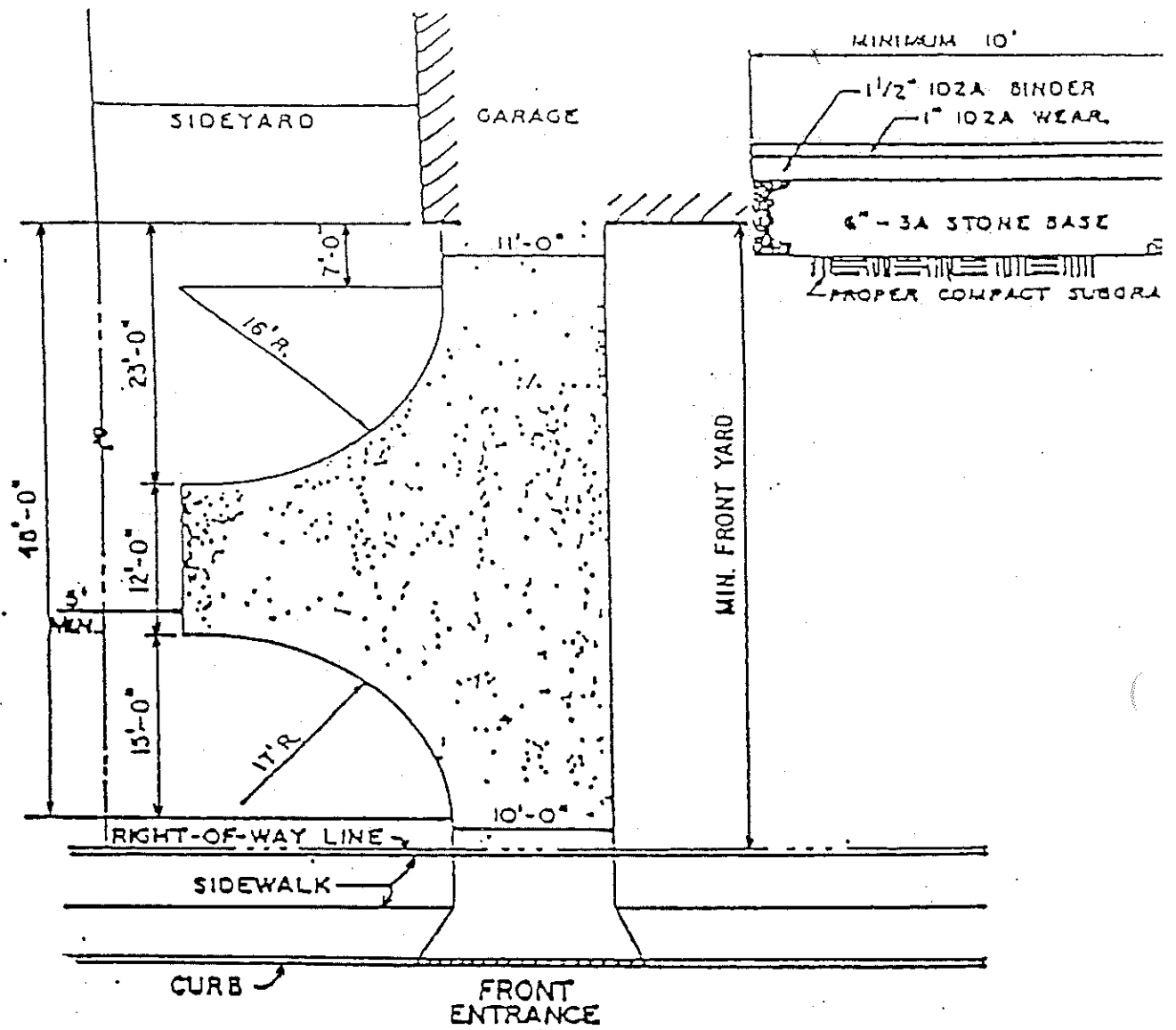


Figure II

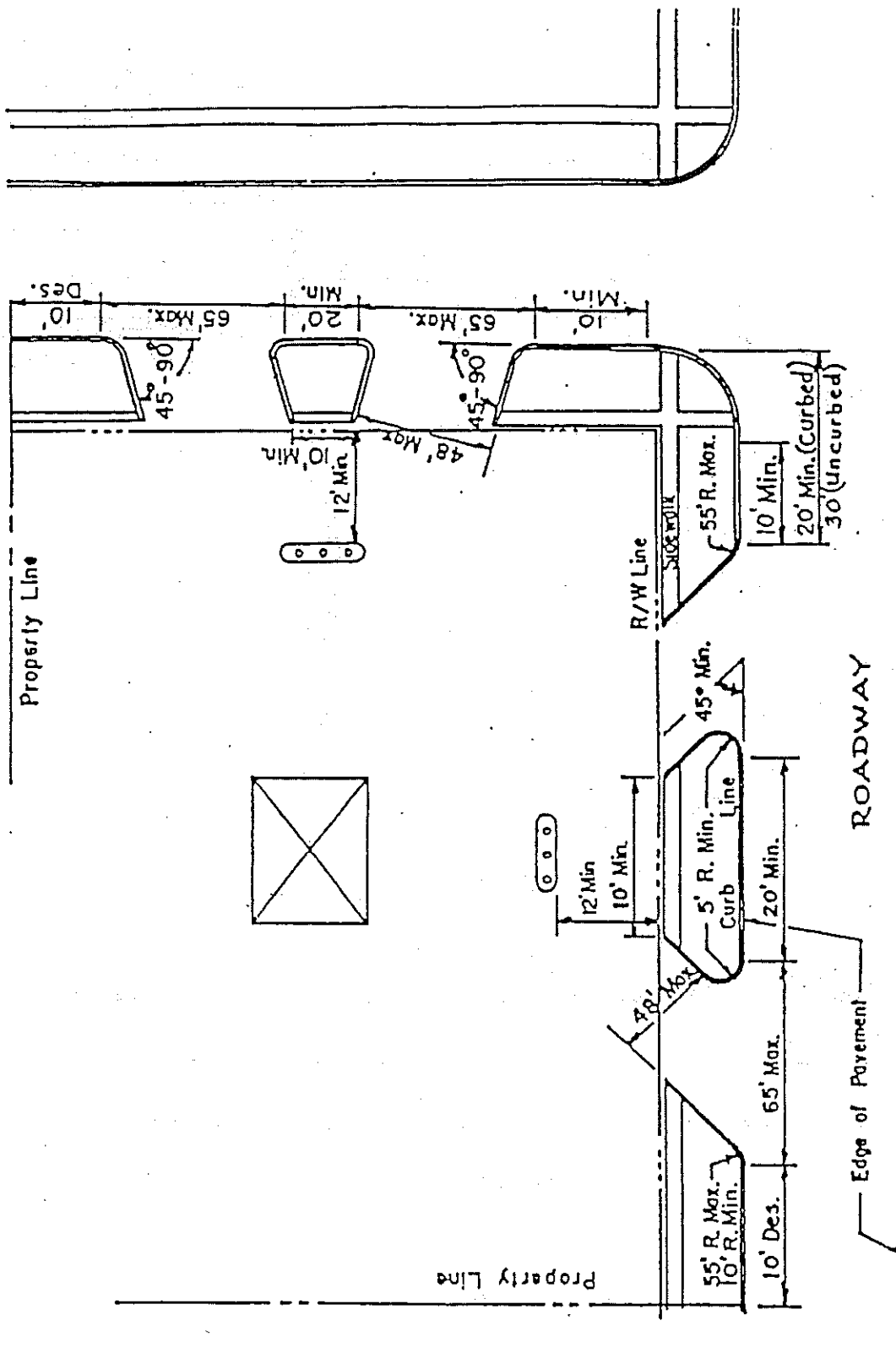
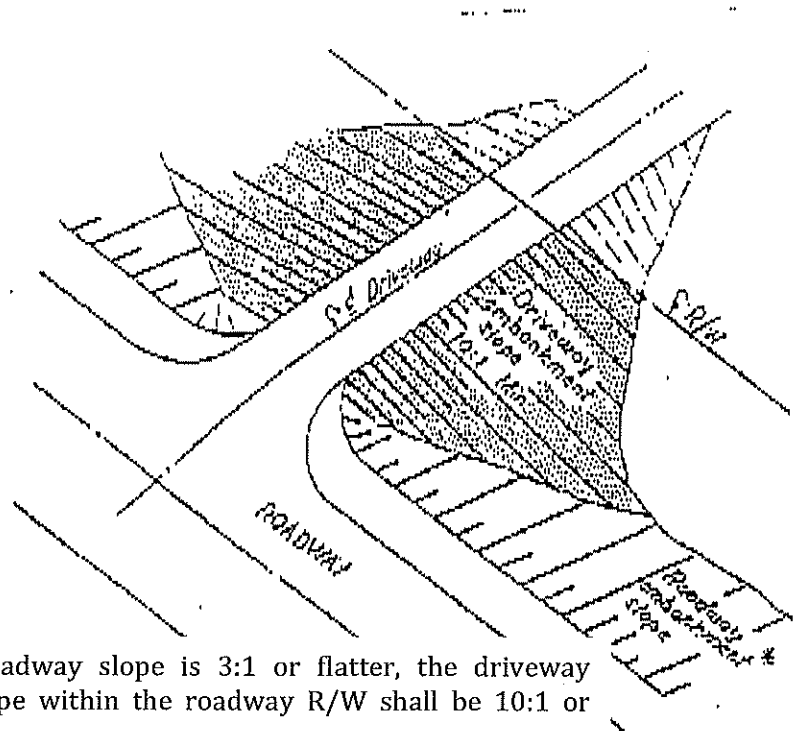


Figure III



Where the roadway slope is 3:1 or flatter, the driveway embankment slope within the roadway R/W shall be 10:1 or flatter.

Where the roadway slope is steeper than 3:1, guardrail is usually installed at the top of the roadway slope and steeper slopes are permissible on the driveway within the R/W.

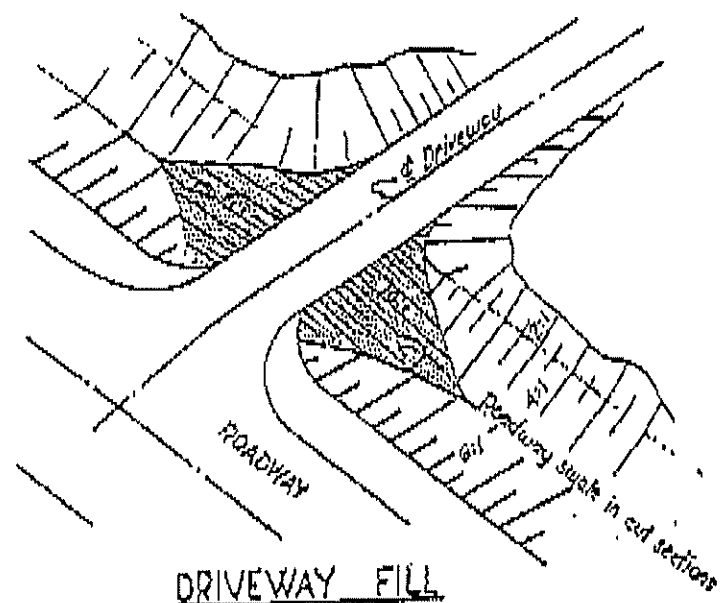
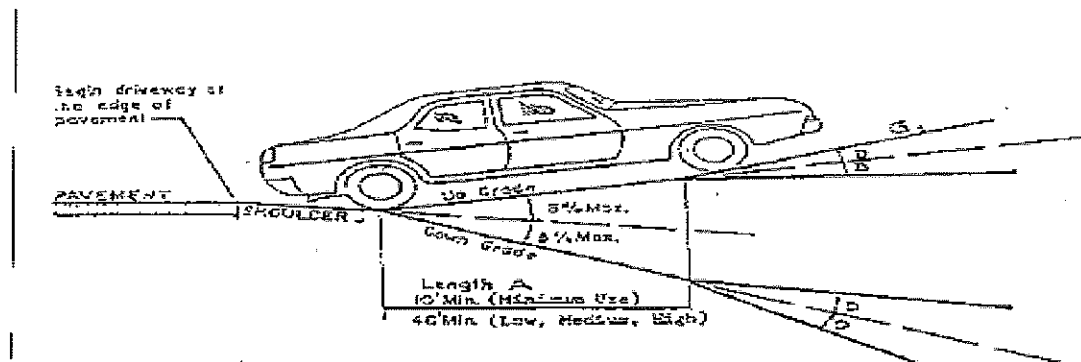


Figure IV



- The shoulder slope usually varies from ½ feet (4%) to ¾ feet (6%). However, the
- shoulder slope should be maintained when constructing the driveway.

For grade changes greater than those shown in Figure I, vertical curves at least 10 feet long shall be constructed and length "A" shall be increased.

Grades (G2) shall be permitted to 15% for minimum use driveways and from 5% to 8% for low, medium or high volume driveways within the right-of-way.

Maximum Grade Change (D)

	<u>Desirable</u>	<u>Maximum</u>
High Volume Driveway	0%	+/- 3%
Medium Volume Driveway	+/-3%	+/-6%
Low Volume Driveway	+/-6%	Controlled by Vehicle Clearance

PART 2

REPAIR AND MAINTENANCE OF SIDEWALKS, CURBS AND DRIVEWAY ENTRANCES

§21-201. MAINTENANCE AND REPAIR OF SIDEWALKS, CURBS AND DRIVEWAY ENTRANCES

The responsibility of maintaining and repairing sidewalks and curbs installed within any public right of way shall be the responsibility of the property owner.

§21-202. NOTICE OF REPAIR

Should a sidewalk, curb or driveway entrance become a dangerous condition, in the opinion of the Township Roadmaster or Township Engineer, notice shall be given to the owner or owners of the lot or lots abutting thereon to repair the sidewalk, curb and/or driveway entrance in accordance with the standards as provided in this Chapter 21 (for driveway entrances) or Chapter 22 (for sidewalks and curbs). All repairs shall be completed within sixty (60) days of the notice to repair. Upon failure of said owner or owners to comply with the notice to repair, the Township may complete the required repairs and shall collect the costs thereof from the owner or owners of the lot or lots as provided in Article XXIV of the Second Class Township Code.

PART 3

SNOW AND ICE REMOVAL

§21-301. THROWING OF SNOW ONTO ROADS UNLAWFUL

It shall be unlawful to throw, shovel or plow snow into or upon any roads and streets within the Township from adjoining property.

§21-302. REMOVAL OF SNOW AND ICE

- A. The owner, occupant or tenant of any property fronting upon or alongside any of the streets in the Township shall remove or cause to be removed from the sidewalks in front of or alongside his or her property all snow and ice thereon fallen or formed, within 10 hours after such snow and ice have ceased to fall or form. However, snow or ice that has ceased to fall or form after 6:00 p.m. may be removed at any time before 11:00 a.m. of the next day. Responsibility for compliance with this section shall lie with the owner of property where such property is occupied by such owner or is unoccupied; with the tenant or occupier thereof where the property is a multiple-business or multifamily dwelling property occupied by more than one tenant or occupier.
- B. If such owner, occupant or tenant fails, neglects or refuses to comply with Subsection A hereof within the time limits prescribed therein, the Township may proceed immediately to clear all snow and/or ice from the sidewalk of such delinquent and to collect the expense thereof, with any additional amount allowed by law, from such owner, occupant or tenant, which may be in addition to any fine or penalty imposed under this chapter.

§21.303. PENALTIES

Any person, firm or corporation who shall violate any provision of this Part shall, upon conviction thereof, be sentenced to pay a fine of not more than one thousand (\$1,000.00) dollars plus cost and, in default of payment of said fine and costs, to a term of imprisonment not to exceed thirty (30) days. Each day a violation of this Part shall continue shall be deemed a separate offense.

