

**BOROUGH  
OF  
WAYNESBORO  
STORMWATER  
MANAGEMENT  
ORDINANCE  
No. 961**

**STORMWATER**

**MANAGEMENT DESIGN**

**ORDINANCE No. 961**

**Borough of Waynesboro**

**Franklin County, Pennsylvania**

AN ORDINANCE REGULATING THE RATE AND QUALITY OF STORMWATER LEAVING A PARCEL OF LAND, CONTROLLING ACCELERATED SOIL EROSION AND SEDIMENTATION RESULTING FROM STORMWATER RUN-OFF, IMPLEMENTING THE PROVISIONS OF THE FRANKLIN COUNTY ANTIETAM CREEK STORMWATER MANAGEMENT PLAN, PROVIDING FOR THE REVIEW OF STORMWATER MANAGEMENT PLANS, THE COLLECTION OF FEES AND INSURING THE MAINTENANCE OF PERMANENT STORMWATER MANAGEMENT STRUCTURES.

10/01/95

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Note: This table of contents is for convenience only; its accuracy is not guaranteed as part of this Ordinance.

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BOROUGH OF WAYNESBORO  
STORMWATER MANAGEMENT ORDINANCE

ARTICLE 1

GENERAL PROVISIONS

**SECTION 101. STATEMENT OF FINDINGS**

The Borough Council of the Borough of Waynesboro finds that:

- A. Inadequate management of accelerated stormwater run-off resulting from development throughout a watershed increases flood flows and velocities, contributes to erosion and sedimentation, overtaxes the carrying capacity of existing streams and storm sewers, greatly increases the cost of public facilities to convey and manage stormwater, undermines floodplain management and flood reduction efforts in upstream and down stream communities, reduces groundwater recharges, and threatens public health and safety.
- B. A comprehensive program of stormwater management, including reasonable regulation of development and activities causing accelerated erosion, is fundamental to the public health, safety, welfare, and the protection of the people of the Borough of Waynesboro and of the Commonwealth, their resources, and the environment.

**SECTION 102. PURPOSE**

The purpose of this Ordinance is to promote health, safety, and welfare within that portion of the Antietam Creek Watershed which is within the political boundaries of the Borough of Waynesboro, as such is depicted upon the attached map, which has been marked Plate "A", and is made a part hereof, by minimizing the damages described in Section 101.A of this Ordinance through provisions designed to:

- A. Manage accelerated run-off and erosion and sedimentation problems at their source by regulating activities that cause these problems.
- B. Utilize and preserve the existing natural drainage systems.
- C. Encourage recharge of groundwater where appropriate and prevent degradation of groundwater quality.
- D. Maintain existing flows and quality of streams and watercourses in the Borough of Waynesboro and the Commonwealth.
- E. Preserve and restore the flood-carrying capacity of streams.

- F. Provide proper maintenance of all permanent stormwater management facilities that are constructed in the Borough of Waynesboro.
- G. Provide performance standards and design criteria for watershed-wide stormwater management and planning.

SECTION 103. STATUTORY AUTHORITY

The Borough of Waynesboro is empowered to regulate land use activities that affect run-off by the Authority of the Act of October 4, 1978, P.L. 864 ( Act 167), the "Stormwater Management Act", and the Act of May 1, 1933 (P.L. 103, No. 69), Re-enacted and amended July 10, 1947 (P.L. 1481, No. 567) As Amended, the Act of February 1. 1966 (P.L. 1656, No. 581) As Amended, the "Borough Code".

SECTION 104. APPLICABILITY

This Ordinance shall only apply to those areas of the Borough of Waynesboro that are located within the Antietam Creek Watershed, as delineated on Plate "A" of this Ordinance.

This Ordinance shall only apply to permanent stormwater management facilities constructed as part of any of the Regulated Activities listed in this Section. Stormwater management and erosion and sedimentation control during construction activities are specifically not regulated by this Ordinance, but shall continue to be regulated under existing laws and ordinances.

This Ordinance contains only the stormwater management performance standards and design criteria that are necessary or desirable from a watershed-wide perspective. Local stormwater management design criteria (e.g. inlet spacing, inlet type, collection system details, outlet structure design, etc.) shall continue to be regulated by the Borough of Waynesboro's Subdivision and Land Development Ordinance for those areas that are located outside of the Antietam Creek Watershed.

The following activities are defined a "Regulated Activities" and shall be regulated by this Ordinance:

- A. Land Development
- B. Subdivision
- C. Construction of new or additional impervious or semi-pervious surfaces in excess of 5,000 square feet (driveways, parking lots, etc.).
- D. Construction of new buildings or additions to existing buildings in excess of 5,000 square feet.
- E. Diversion or piping of any natural or man-made stream channel (see Section 303C.3).

- F. Installation of stormwater management facilities or appurtenances thereto.
- G. Forest Management Operations.
- H. Land disturbances in excess of 5,000 square feet but excluding those related with agricultural activities.

SECTION 105. REPEALER

Any Ordinance of the Borough of Waynesboro inconsistent with any of the provisions of this Ordinance is hereby repealed to the extent of the inconsistency only.

SECTION 106. SEVERABILITY

Should any section or provision of this Ordinance be declared invalid by a court of competent jurisdiction, such decision shall not affect the validity of any of the remaining provisions of this Ordinance.

SECTION 107. COMPATIBILITY WITH OTHER ORDINANCE REQUIREMENTS

Approvals issued pursuant to this Ordinance do not relieve the Applicant of the responsibility to secure required local, state and/or federal permits (such as DER Chapter 105, 106, NPDES, etc.), or approvals for activities regulated by any other applicable code, rule, act, or ordinance.

## ARTICLE II

### DEFINITIONS

For the purposes of this Chapter, certain terms and words used herein shall be interpreted as follows:

- A. Words used in present tense include the future tense; the singular number includes the plural number, and the plural number includes the singular; words of masculine gender include feminine gender; and words of feminine gender include masculine gender.
- B. The word "includes" or "including" shall not limit the term to the specific example but is intended to extend its meaning to all other instances of like kind and character.
- C. The word "person" includes as individual, firm, association, organization, partnership, trust, company, corporation, or any other similar entity.
- D. The words "shall" and "must" are mandatory; the words "may" and "should" are permissive.
- E. The words "used or occupied" include the words "intended, designed, maintained, or arranged to be used or occupied".

Agricultural Activities - Growing crops, rotating crops, tilling of soil and grazing animals.

Alteration - As applied to land, a change in topography as a result of the moving of soil and rock from one location or position to another; also the changing of surface conditions by causing the surface to be more or less impervious; land disturbance.

Applicant - A landowner or developer who has filed an application for approval to engage in any Regulated Activities as defined in Section 104 of this Ordinance.

Cistern - An underground reservoir or tank for storing rainwater.

Conservation District - The Franklin County Conservation District.

Culvert - A structure with appurtenant works which carries a stream under or through an embankment or fill.

Dam - An artificial barrier, together with its appurtenant works, constructed for the purpose of impounding or storing water or another fluid or semi-fluid, or a refuse bank, fill or structure for highway, railroad or other purposes which does or may impound water or another fluid or semi-fluid.



Design Storm - The magnitude and temporal distribution of precipitation from a storm event measured in probability of occurrence (e.g. a 5-year storm) and duration (e.g. 24-hours), used in the design and evaluation of stormwater management systems.

Detention Basin - An impoundment structure designed to manage stormwater run-off by temporarily storing the run-off and releasing it at a predetermined rate.

Developer - A person, partnership, association, corporation, or other entity, or any responsible person therein or agent thereof, that undertakes any Regulated Activity of this Ordinance.

Development Site - The specific tract of land for which a Regulated Activity is proposed.

Director of Engineering - A person duly appointed by the Borough Council of the Borough of Waynesboro or any consultant designated by the Borough Council of the Borough of Waynesboro to review Drainage Plans.

Drainage Easement - A right granted by a landowner to a grantee, allowing the use of private land for stormwater management purposes.

Erosion - The movement of soil particles by the action of water, wind, ice, or other natural forces.

Floodplain - Any land area susceptible to inundation by water from any natural source or delineated by applicable Department of Housing and Urban Development, Federal Insurance Administration Flood Hazard Boundary Maps as being a special flood hazard area. Also included are areas that comprise Group 13 Soils, as listed in Appendix A of the Pennsylvania department of Environmental Resources (PaDER) Technical Manual for sewage Enforcement Officers (as amended or replaced from time to time by PaDER).

Forest Management Operations - All activities connected with growing and harvesting of forest products including site preparation; cultivation and logging of trees and the construction and maintenance of roads.

Groundwater Recharge - Replenishment of existing natural underground water supplies.

Impervious Surface - A surface that prevents the percolation of water into the ground.

Infiltration Structures - A structure designed to direct run-off into the ground (e.g. french drains, seepage pits, seepage trench).

Land Development - Any of the following activities:

- (1) The improvement of one lot or two or more contiguous lots, tracts or parcels of land for any purpose involving:
  - (i) a group of two or more residential or nonresidential buildings, whether proposed initially or cumulatively, or a single nonresidential building on a lot or lots regardless of the number of occupants or tenure; or
  - (ii) the division or allocation of land or space, whether initially or cumulatively, between or among two or more existing or prospective occupants by means of, or for the purpose of streets, common areas, leaseholds, condominiums, building groups or other features.
- (2) A subdivision of land.
- (3) Development in accordance with section 503(1.1) of Act 170, Municipalities Planning Code, and as stated as follows:

Provisions for the exclusion of certain land development from the definition of land development only when such land development involves:

- (i) the conversion of an existing single-family detached dwelling or single family semi-detached dwelling into not more than three residential units, unless such units are intended to be a condominium;
- (ii) the addition of an accessory building, including farm buildings, on a lot or lots subordinate to an existing principal building; or
- (iii) the addition or conversion of buildings or rides within the confines of an enterprise which would be considered an amusement park. For purposes of this subclause, an amusement park is defined as a tract or area used principally as a location for permanent amusement structures or rides. This exclusion shall not apply to newly acquired acreage by an amusement park until initial plans for the expanded area have been approved by proper authorities.

Land Disturbance - Any activity involving grading, tilling, digging, or filling of ground or stripping of vegetation or any other activity that causes an alteration to the natural condition of the land.

Open Channel - A drainage element in which stormwater flows with an open surface. Open Channels include, but shall not be limited to, natural and manmade drainageways, swales, ditches, canals, and pipes flowing partly full.

Peak Discharge - The maximum rate of stormwater run-off from a specified storm event.

Pipe - A culvert, closed conduit, or similar structure (including appurtenances) that conveys stormwater.

PMF - Probable Maximum Flood - The flood that may be expected from the most severe combination of critical meteorologic and hydrologic conditions that are reasonably possible in an area. The PMF is derived from the probable maximum precipitation (PMP) as determined on the basis of data obtained from the National Oceanographic and Atmospheric Administration (NOAA).

Regulated Activities - Actions or proposed actions that have an impact on stormwater run-off and that are specified in Section 104 of this Ordinance.

Release Rate - The percentage of the pre-development peak rate of run-off from a subarea to which the post-development peak of run-off must be reduced to protect downstream areas.

Retention Basin - An impoundment in which stormwater is stored and not released during the storm event. Stored water may be released from the basin at some time after the end of the storm.

Return Period - The average interval, in years, within which a storm event of a given magnitude can be expected to recur. For example the 25-year return period rainfall would be expected to recur on the average once every twenty-five years.

Run-off - Any part of precipitation that flows over the land surface.

SCS - U.S. Department of Agriculture, Soil Conservation Service.

Sedimentation - The process by which mineral or organic matter is accumulated or deposited by the movement of water.

Sediment Basin - A barrier, dam, retention, or detention basin located and designed to retain rock, sand, gravel, silt, or other material transported by water.

Seepage Pit/Seepage Trench - An area of excavated earth filled with loose stone or similar coarse material, into which surface water is directed for infiltration into the ground.

Soil-Cover Complex Method - A method of run-off computation developed by the SCS that is based on relating soil type and land use/cover to a run-off parameter called a Curve Number (CN).

Storage Indication Method - A reservoir routing procedure based on solution of the continuity equation (inflow minus outflow equals the change in storage) with outflow defined as a function of storage volume and depth.

Storm Sewer - A system of pipes and/or open channels that convey intercepted run-off and stormwater from other sources, but excludes domestic sewage and industrial wastes.

Stormwater - The total amount of precipitation reaching the ground surface.

Stormwater Management Facility - Any structure, natural or manmade, that, due to its condition, design, or construction, conveys, stores, or otherwise affects stormwater run-off. Typical stormwater management facilities include, but are not limited to, detention and retention basins, open channels, storm sewers, pipes, and infiltration structures.

Stormwater Management Plan - The plan for managing stormwater run-off in the Antietam Creek Watershed adopted by Franklin County as required by the Act of October 4, 1978, P.L. 864 (Act 167), and known as the "Antietam Creek Watershed Act 167 Stormwater Management Plan".

Stream Enclosure - A bridge, culvert or other structure in excess of 100 feet in length upstream to downstream which encloses a regulated water of this Commonwealth.

Subarea - The smallest drainage unit of a water shed for which stormwater management criteria have been established in the Stormwater Management Plan.

Subdivision - The division or re-division of a lot, tract, or parcel of land by any means into two or more lots, tracts, parcels, or other division of land including changes in existing lot lines for the purposes, whether immediate or future, or lease, partition by the court for distribution to heirs or devisees, transfer of ownership, or building or lot development: Provided, however, that the subdivision by lease of land for agricultural purposes into parcels of more than ten acres, not involving any new street or easement of access of any residential dwelling, shall be excepted.

Wetland - Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, including swamps, marshes, bogs, ferns, and similar areas. The term includes, but is not limited to, wetland areas listed in the State Water Plan, the United States Forest Service Wetlands Inventory of Pennsylvania, the Pennsylvania Coastal Zone Management Plan the United States Fish and Wildlife National Wetland Inventory and a wetland designated by a river basin commission.

ARTICLE III

STORMWATER MANAGEMENT

SECTION 301. GENERAL REQUIREMENTS

- A. Stormwater drainage systems shall be provided in order to permit unimpeded flow along natural watercourses, except as modified by stormwater management facilities or open channels consistent with this Ordinance.
- B. The existing points of concentrated drainage that discharge onto adjacent property shall not be relocated and shall be subject to any applicable release rate criteria specified in this Ordinance.
- C. Areas of existing diffused drainage shall be subject to any applicable release rate criteria in the general direction of existing discharge, whether proposed to be concentrated or maintained as diffused drainage areas.

If diffused flow is proposed to be concentrated and discharged onto adjacent property, the Developer must document that adequate conveyance facilities exist to safely transport the concentrated discharge, or otherwise prove that no erosion, sedimentation, flooding, or other harm will result from the concentrated discharge.

- D. Where a Development Site is traversed by watercourses other than permanent streams, a drainage easement shall be provided conforming substantially to the line of such watercourses. The terms of the easement shall prohibit excavation, the placing of fill or structures, and any alterations that may affect adversely the flow of stormwater within any portion of the easement. Also, maintenance and moving of vegetation within the easement shall be required.
- E. Any stormwater management facilities regulated by this Ordinance that would be located on State highway right-of-ways shall be subject to approval by the Pennsylvania Department of Transportation (PennDOT).
- F. Any stormwater management facilities regulated by this Ordinance that would be located in or adjacent to waters of the Commonwealth or potential wetlands shall be subject to approval by PaDER through the Joint Permit Application process, or, where deemed appropriate by PaDER, the General Permit process. When there is a question whether wetlands may be involved, it is the responsibility of the Developer to show that the land in question cannot be classified as wetlands, otherwise approval to work in the area must be obtained from PaDER.

G. When it can be shown that, due to topographic conditions, natural drainageways on the site cannot adequately provide for drainage, open channels may be constructed conforming substantially to the line and grade of such natural drainageways. Work within natural drainageways shall be subject to approval by PaDER, through the General Permit process.

H. Sinkholes shall be protected as follows:

1. Stormwater from roadways, parking lots, stormsewers, roof drains, or other concentrated run-off paths shall not be discharged directly into sinkholes.
2. If increased or concentrated run-off is to be discharged into a sinkhole, including filtered discharge, a geologic assessment of the effects of such run-off on increased land subsidence and groundwater quality shall be prepared and the results submitted with the Drainage Plan. Such discharge shall be prohibited if the Borough of Waynesboro determines that the discharge poses a hazard to life, property, or groundwater resources.

#### SECTION 302. STORMWATER MANAGEMENT PERFORMANCE STANDARDS

Pre-development run-off hydrographs shall be computed for both the 2 and 10-year storm events. Post-development run-off hydrographs for both the 2 and 10-year storm events shall then be compared with the pre-development hydrographs. If the post-development hydrograph is less than or equal to the pre-development hydrograph, then no controls are required.

Where site conditions are acceptable, infiltration practices shall be employed to control the increase in post-development hydrographs. Where infiltration practices are not practical or feasible, detention facilities shall be provided solely or in combination with the infiltration facilities to achieve the following standard:

Stormwater Management Control Facilities - The primary outlet shall be equal to the arithmetic product of the release rate percentage shown on Plate "A" and the 2-year pre-development rate. Secondary outlet control shall be provided for the 10-year storm event level and shall be controlled at the arithmetic product of the release rate percentage shown on Plate "A" and the 10-year predevelopment rate.

#### SECTION 303. DESIGN CRITERIA FOR STORMWATER MANAGEMENT FACILITIES

- A. Any stormwater management facilities required or regulated by this Ordinance shall be designed to meet the performance standards enumerated above. Compensatory stormwater management facilities shall not be permitted.

- B. Any stormwater management facilities required or regulated by this Ordinance shall be designed to provide a minimum 1.0 foot of free board above the maximum 25-year water surface elevation for post-development conditions. Where storage ponding is proposed, all ponds shall include in their design an emergency spillway capable of passing the 100-year post-development storm event. Should any stormwater management facilities qualify as a dam under PaDER Chapter 105, the facility shall be designed in accordance with Chapter 105 and meet the regulations of Chapter 105 concerning dam safety.
- C. Any hydraulic capacity analysis conducted in accordance with this Ordinance shall use the following criteria to determine if adequate hydraulic capacity exists:
1. Open channels must be able to convey post-development run-off from a 10-year design storm within their banks at velocities that would not erode the channel bed or banks. Acceptable velocities shall be based on criteria included in the PaDER Erosion and Sediment Pollution Control Program Manual (as amended or replaced from time to time by PaDER).
  2. Open channels conveying a post-development flow of more than 19 cfs shall have a minimum 1.0 foot of freeboard and not create a hazard to any persons or property.
  3. Any regulated activity under PaDER Chapter 105 (e.g. culverts, bridges, outfalls, channel modifications or stream enclosures), and any work involving wetlands as described in PaDER Chapter 105 regulations (as amended or replaced from time to time by PaDER), shall be designed in accordance with Chapter 105 and will require a permit from PaDER. Any other drainage conveyance facility that doesn't fall under Chapter 105 regulations must be able to convey, without damage to the drainage structure or roadway, run-off from the 25-year design storm with a minimum 1.0 foot of free board measured below the lowest point along the top of the roadway. Any facility that requires a dam safety permit must be designed in accordance with PaDER Chapter 105 Regulations. Any facility located within a PennDOT right-of-way must meet PennDOT minimum design standards and permit submission requirements.
  4. Storm sewers must be able to convey post development run-off from a 25-year design storm without surcharging inlets.
  5. Storm sewer inlet spacing and road cross-section design must ensure that post-development run-off resulting from a 10-year design storm does not flood more than one half of a driving lane. Capacity reduction factors, suggested for use when a possibility of

clogging of grates, side openings or combination inlets exists, are shown in Table IV. The reduction factors are to be applied to the theoretical capacity of the inlet. For inlets on continuous grades, the minimum amount of water that should be bypassed on to the next downstream inlet is ten (10) percent. Allowable flow of water across street intersections by street type are shown on Table III.

6. The maximum allowable spacing between structures to be used for inspecting and cleaning storm sewers (manholes, on-line inlets, risers and terminal cleanouts) shall be based on the pipe size and spacing shown in Table VI.
- D. Easements along open channels shall be provided. The minimum width of the required easement shall be equal to the width of the 100-year water surface (for post-development conditions), including a minimum 1.0 foot of freeboard.
  - E. In subareas where individual stormwater management facilities would be provided for each development site, the individual stormwater management facilities shall be designed to ensure that the post-development peak discharge at the mouth of the subarea does not exceed the arithmetic product of the applicable release rate, specified on Plate "A" of this Ordinance, and the pre-development peak discharge at the mouth of the subarea.
  - F. For development sites, that would be located in two or more subareas, the applicable release rate for the portions of the site located in different subareas shall be based on natural subarea drainage boundaries. The natural drainage boundaries between subareas shall not be modified, nor shall drainage from a development site be diverted or otherwise conveyed from one subarea to another subarea, except where run-off naturally crosses subarea drainage boundaries.
  - G. Regional or Sub-Regional Stormwater Management Facilities - For certain areas within the watershed, it may be more cost effective to provide one stormwater management facility for an entire subarea, group of subareas, or portions of a subarea incorporating more than one development site than to provide an individual stormwater management facility for each development site. The initiative and funding for any regional or sub-regional stormwater management alternatives are the responsibility of prospective developer(s). The design of any regional stormwater management facilities must assume development of the entire area that would drain to the regional facility. The type and amount of development that the developer(s) must consider shall be either based on current zoning or on projections established by the Franklin County Planning commission, whichever results in a greater amount of imperviousness. The peak outflow from a regional



stormwater management facility would be determined on a case-by-case basis using The Penn State Runoff Method (Ps Rm), as developed for the Antietam Creek Watershed Act 167 Stormwater Management Plan. When regional or sub-regional stormwater management facilities are utilized, the effect of phased growth on stormwater runoff flows must be corrected. At no time from the initial phase through ultimate development shall the peak runoff flows exceed the pre-development peak multiplied by the applicable release rate.

- H. Capacity Improvements - If the Developer could prove that it would be feasible to provide capacity improvements to relieve the capacity deficiency in the existing drainage network, then adequate capacity improvements could be provided by the Developer in lieu of stormwater management facilities on the development site. Any capacity improvements would be designed based on development of all areas tributary to the improvements and the capacity criteria specified in this Ordinance. The type and amount of development that the Developer must consider shall be either based on current zoning or on projections established by the Franklin County Planning Commission, whichever results in a greater amount of imperviousness. It shall be assumed that all new development upstream of a proposed capacity improvement would implement applicable stormwater management techniques, consistent with this Ordinance.
- I. Adequate erosion protection shall be provided along all open channels, and at all points of discharge.
- J. Ponds and other similar water features that are not designed as stormwater management facilities shall be designed in accordance with U.S. Department of Agriculture, Soil Conservation Service (SCS), Ponds - Planning, Design, Construction (as amended or replaced from time to time by SCS), and shall be treated as impervious surfaces for stormwater runoff computations.
- K. The design of all stormwater management facilities shall incorporate sound engineering principles and practices. The Borough of Waynesboro shall reserve the right to disapprove any design that would result in the occurrence or perpetuation of an adverse hydrologic or hydraulic condition within the watershed.

#### SECTION 304.      CALCULATION METHODOLOGY

- A. Any stormwater runoff calculations involving drainage areas greater than 20 acres, including on-and-off site areas, shall use any generally accepted calculation technique that is based on the SCS soil cover complex method. Table I below summarizes acceptable computation methods. All methods shall be selected by the design professional based on the individual limitations and suitability of each method for a particular site.

The Director of Engineering for the Borough of Waynesboro may approve the use of the Rational Method to estimate peak discharges from drainage areas that contain less than 20 acres.

Table I

ACCEPTABLE COMPUTATION METHODOLOGIES FOR  
STORMWATER MANAGEMENT PLAN

METHOD	DEVELOPER	APPLICABILITY
TR-20 (or commercial package based on TR-20)	USDA SCS	Applicable where use of full hydrology computer model is desirable or necessary.
TR-55 (or commercial computer package based on TR-55)	USDA SCS	Applicable for land development plans within limitations described in TR-55
HEC-1	US Army Corps of Engineers	Applicable where use of full hydrologic computer model is desirable or necessary
PSRM	Penn State Univ.	Applicable where use of a hydrologic computer model is desirable or necessary; simpler than TR-20 or HEC-1.
Rational Method (or commercial computer package based on the Rational Method)	Emil Kuichking (1889)	For sites less than 20 acres, or as approved by the Director of Engineering.
Other Methods	Varies	Other computation methodologies approved by the Director of Engineering.

- B. The design of any stormwater detention facilities intended to meet the performance standards of this Ordinance shall be verified by routing the design storm hydrograph using the Storage-Indication Method. For drainage areas greater than 20 acres in size, the design storm hydrograph shall be computed using a calculation method that produces a full hydrograph. The Director of Engineering may approve the use of any generally accepted full hydrograph approximation technique which uses a total volume that is consistent with the volume from a method that produces a full hydrograph.

- C. All calculations consistent with this Ordinance using the soil cover complex methods shall use the appropriate design rainfall depths in inches for the various return period storms presented in Table II of this Ordinance. If a hydrologic computer model such as PSRM or HEC-1 is used for stormwater runoff calculations, then the duration of rainfall shall be 24-hours.

TABLE II  
ANTIETAM CREEK WATERSHED  
RAINFALL INTENSITY/DURATION - FREQUENCY

Storm Event (Years)	Duration (hours)					
	1	2	3	6	12	24
2	1.18	1.35	1.55	1.75	2.00	2.38
10	2.11	2.55	2.80	3.25	3.75	4.45
25	2.49	2.95	3.25	3.85	4.60	5.20
50	2.79	3.50	3.75	4.40	5.15	5.78
100	3.08	3.70	4.10	4.75	5.55	6.32

- D. All calculations using the Rational Method shall use rainfall intensities consistent with appropriate times of concentration for overland flow and return periods from the Design Storm Curves in Figure 1 of this Ordinance. Times of concentration for overland flow shall be calculated using the methodology presented in Chapter 3 of Urban Hydrology for Small Watershed, SCS, TR-55 (as amended or replaced from PennDOT Design Manual #2, Region 4 for watershed tributary to the East Branch and Region 3 for watershed tributary to the West Branch). Times of concentration for channel and pipe flow shall be computed using Manning's equation.
- E. Runoff Curve Numbers (CN) for both existing and proposed conditions to be used in the soil cover method shall be obtained from Table 2-2 of the USDA SCS TR-55, except that all agricultural pre-development conditions shall be considered good with the best conservation practices assumed to be employed.
- F. Runoff coefficients (c) for both existing and proposed conditions for use in the Rational Method shall be obtained from Table 4.2 of the DER Erosion and Sediment Pollution Control Program Manual and shall be subject to the approval of the Director of Engineering.
- G. Where uniform flow is anticipated, the Manning equation shall be used for hydraulic computations, and to determine the capacity of open channels, pipes, and storm sewers.

Values of roughness coefficient "n" for use in the Manning Formula are shown in Table V. Where non-uniform flow is anticipated, the hydraulic effects of "backwater" caused by hydraulic obstructions (e.g., culverts, bridges, dams, reservoirs, etc.) shall be evaluated using the standard step method for determining water surface profiles.

- H. Outlet structures for stormwater management facilities shall be designed to meet the performance standards of this Ordinance using any generally accepted hydraulic analysis technique or method approved by the Director of Engineering.

## ARTICLE IV

### DRAINAGE PLAN REQUIREMENTS

#### SECTION 401. GENERAL REQUIREMENTS

For any of the activities regulated by this Ordinance, the final approval of subdivision and/or land development plans, the issuance of any building or occupancy permit, or the commencement of any land disturbance activity may not proceed until the Property Owner or Developer or his/her agent has received written approval of a Drainage Plan from the Borough of Waynesboro.

The drainage plan shall be designed and certified by individuals registered in the Commonwealth of Pennsylvania to perform such duties.

#### SECTION 402. EXEMPTIONS

- A. Any Regulated Activity that would create 5,000 square feet or less of impervious area is exempt from the provisions of this Ordinance. This criteria shall apply to the total development even if development is to take place in phases. The developer shall be responsible to ensure that exempted activities shall maintain sound building and construction practices such that the quantity, velocity and direction of the resulting stormwater runoff will adequately protect hearth, safety, or other property from possible injury.
- B. Land disturbance associated with existing one and two family dwellings, subject to conditions described in A. of this Section.
- C. Use of land for gardening for home consumption.
- D. Agricultural activities when operated in accordance with a conservation plan or erosion and sedimentation control plan prepared by the conservation district are specifically exempt from complying with the requirements of this Ordinance. The construction of buildings, parking lots or any activity that results in more than 5,000 square feet of impervious surface shall comply with the requirements of this Ordinance.
- E. All public works projects such as but not limited to street construction, water line and sewer line construction, etc.

No exemption shall be provided for Regulated Activities as defined in Section 104.E and 104.F of this Ordinance.

#### SECTION 403. DRAINAGE PLAN CONTENTS

The Drainage Plan shall consist of all applicable calculations, maps, and plans. A note on the maps shall refer to the associated computations and erosion and sedimentation control

plans by title and date. The cover sheet of the computations and erosion and sedimentation control plan shall refer to the associated maps by title and date. All Drainage Plan materials shall be submitted to the Director of Engineering in a format that is clear, concise, legible, neat, and well organized; otherwise the Drainage Plan shall be disapproved and returned to the Applicant.

The following items shall be included in the Drainage Plan:

A. General

1. General description of project.
2. General description of permanent stormwater management techniques, including construction specifications of the materials to be used for stormwater management facilities.
3. Complete hydrologic, hydraulic, and structural computations for all stormwater management facilities.

B. Map(s) of the project area shall be submitted on 24-inch x 36-inch or 30-inch x 42-inch sheets and shall be prepared in a form that meets the requirements for recording at the office of the Recorder of Deeds of Franklin County. The contents of the map(s) shall include, but not limited to:

1. The location of the project relative to highways, municipalities or other identifiable landmarks.
2. Existing contours at intervals of two feet. In areas of steep slopes (greater than 15 percent), five foot contour intervals may be used.
3. Existing streams, lakes, ponds, or other bodies of water within the project area.
4. Other physical features including flood hazard boundaries, sinkholes, streams, existing drainage courses, areas of natural vegetation to be preserved, and the total extent of the upstream area draining through the site.
5. The locations of all existing and proposed utilities, sanitary sewers, and water lines within 50 feet of property lines.
6. An overlay showing soil names and boundaries.
7. Proposed changes to the land surface and vegetative cover, including the type and amount of impervious area that would be added.
8. Proposed structures, roads, paved areas, and buildings.
9. Final contours at intervals of two feet. In areas of steep slopes (greater than 15 percent), five foot contour intervals may be used.
10. The name of the development, the name and address of the owner of the property, and the name of the individual preparing the plan and a certification that the Drainage Plan meets all the design standards and criteria of the Antietam Creek Watershed Act 167 Stormwater Management Ordinance.
11. The date of submission.
12. A graphic and written scale of one (1) inch equals no

- more than fifty (50) feet; for tracts of twenty (20) acres or more, the scale shall be one (1) inch equals no more than one hundred (100) feet.
13. A North arrow.
  14. The total tract boundary and size with distances marked to the nearest foot and bearings to the nearest degree.
  15. Existing and proposed land use(s).
  16. A key map showing all existing man-made features beyond the property boundary that would be affected by the project.
  17. Horizontal and vertical profiles of all open channels, including hydraulic capacity.
  18. Overland drainage paths.
  19. A twenty-foot access easement around all stormwater management facilities that would provide ingress from and egress to a public right-of-way.
  20. A note on the plan indicating the location and responsibility for maintenance of stormwater management facilities that would be located off site. All off site facilities shall meet the performance standards and design criteria specified in this Ordinance.
  21. A construction detail of any improvements made to sinkholes and the location of all notices to be posted, as specified in this Ordinance.
  22. A statement, signed by the landowner, acknowledging the stormwater management system to be a permanent fixture that can be altered or removed only after approval of a revised plan by the Borough of Waynesboro.
  23. The location of all erosion and sedimentation control facilities.

C. Supplemental Information

1. A written description of the following information shall be submitted.
  - a. The overall stormwater management concept for the project.
  - b. Stormwater runoff computations as specified in this Ordinance.
  - c. Stormwater management techniques to be applied both during and after development.
  - d. Expected project time schedule.
2. A soil erosion sedimentation control plan, including all reviews and approvals, as required by PaDER.
3. A geologic assessment of the effects of runoff on sinkholes as specified in this Ordinance.
4. The effect of the project (in terms of runoff volumes and peak flows) on adjacent properties and on any existing municipal stormwater collection system that may receive runoff from the project site.
5. A Declaration of Adequacy and Highway Occupancy Permit from the PennDOT District Office when utilization of a PennDOT storm drainage system is proposed.

D. Stormwater Management Facilities

1. All stormwater management facilities must be located on

2. a map and described in detail.
2. When groundwater recharge methods such as seepage pits, beds or trenches are used, the locations of existing and proposed septic tank infiltration areas and wells must be shown.
3. All calculations, assumptions, and criteria used in the design of the stormwater management facilities must be shown.

#### SECTION 404. PLAN SUBMISSION

For all activities regulated by this Ordinance, the steps below shall be followed for submission. For any activities that require a PaDER Joint Permit Application and are regulated under Chapter 105 (Dam Safety and Waterway Management) or Chapter 106 (Floodplain Management) of PaDER's Rules and regulations, require a PennDOT Highway Occupancy Permit, or require any other permit under applicable state or federal regulations, the permit(s) shall be part of the plan.

1. The Drainage Plan shall be submitted by the Developer as part of a Subdivision Preliminary Plan or a Land Development Plan submission for the Regulated Activity.
2. Ten (10) copies of the Drainage Plan shall be submitted to the Director of Engineering no less than ten (10) calendar days prior to the next regular monthly meeting of the Waynesboro Planning Commission. The Director of Engineering will distribute one copy to the Borough's Consulting Engineer and one copy to each member of the Waynesboro Planning Commission.

#### SECTION 405. DRAINAGE PLAN REVIEW

- A. The Waynesboro Planning Commission shall review the Drainage Plan for consistency with the Stormwater Management Ordinance of the Borough of Waynesboro and shall make it's recommendations to the Borough Council of the Borough of Waynesboro within forty-five (45) days after official submission. The Waynesboro Planning Commission shall require receipt of a complete plan, as specified in this Ordinance.
- B. The Director of Engineering of the Borough of Waynesboro shall review the Drainage Plan for any subdivision or land development against the Borough's Subdivision and Land Development Ordinance provisions not superseded by this Ordinance.
- C. For activities regulated by this Ordinance, the Borough of Waynesboro shall notify the Developer, in writing, within 90 calendar days after official submission, whether the Drainage Plan is consistent with the Stormwater Management Ordinance of the Borough of Waynesboro. Should the Drainage Plan be determined to be consistent with the



Stormwater Management Ordinance of the Borough of Waynesboro, the Director of Engineering will forward an approval letter to the Developer.

Should the Drainage Plan be determined to be inconsistent with the Stormwater Management Ordinance of the Borough of Waynesboro, the Director of Engineering will forward a disapproval letter to the Developer citing the reason(s) for the disapproval. Any disapproved Drainage Plan may be revised by the Developer and resubmitted consistent with this Ordinance.

- D. For Regulated Activities specified in Section 104.C and 104.D of this Ordinance, the Borough Council of the Borough of Waynesboro shall notify the Borough's Building Permit Officer, in writing within a time frame consistent with the Borough's Building Code, whether the Drainage Plan is consistent with the Stormwater Management Ordinance of the Borough of Waynesboro and forward a copy of the approval/disapproval letter to the Developer. Any disapproved drainage plan may be revised by the Developer and resubmitted consistent with this Ordinance.
- E. For Regulated Activities requiring a PaDER Joint Permit Application, the Director of Engineering shall notify PaDER whether the Drainage Plan is consistent with the Stormwater Management Ordinance of the Borough of Waynesboro and forward a copy of the review letter to the Waynesboro Planning Commission and Borough Council of the Borough of Waynesboro and the Developer. PaDER may consider the Director of Engineering's review comments in determining whether to issue a permit.
- F. The Borough Council of the Borough of Waynesboro shall not approve any subdivision or land development for Regulated Activities specified in Section 104.A and 104.B of this Ordinance if the Drainage Plan has been found to be inconsistent with the Stormwater Management Ordinance of the Borough of Waynesboro or without considering the comments of the Franklin County Planning Commission, the Franklin County Conservation District and the Waynesboro Planning Commission. All required permits from PaDER must be obtained prior to approval.
- G. The Borough of Waynesboro's Building Permit Office shall not issue a building permit for any Regulated Activity specified in Section 104.C and 104.D of this Ordinance if the drainage Plan has been found to be inconsistent with the Stormwater Management Ordinance of the Borough of Waynesboro, as determined by the Director of Engineering of the Borough of Waynesboro. All required permits from PaDER must be obtained prior to issuance of a building permit.
- H. The Developer shall be responsible for completing an "As-Built Survey" of all stormwater management facilities

included in the approved Drainage Plan. The "As-Built Survey" and an explanation of any discrepancies with the design plan shall be submitted to the Director of Engineering of the Borough of Waynesboro for final approval. In no case shall the Director of Engineering approve the "As-Built Survey" until the Director of Engineering receives a copy of an approved Declaration of Adequacy, Highway Occupancy permit from the PennDOT Office, and any applicable permits from PaDER.

- I. After the approval by the Borough Council of the Borough of Waynesboro of a Drainage Plan the Developer shall have a period of three years to complete construction of the stormwater management facilities as shown on the approved Drainage Plan. This three year time period shall commence on the date that the Borough Council of the Borough of Waynesboro approved the Drainage Plan. If stormwater management facilities included in the approved Drainage Plan have not been constructed, or if an "As-Built Survey" of these facilities has not been approved within this three year time period, then the Borough of Waynesboro may consider the Drainage Plan disapproved and may revoke any and all permits. Drainage Plans that are considered disapproved by the Borough Council of the Borough of Waynesboro shall be resubmitted in accordance with Section 407 of this Ordinance.

However, in the event the developer has completed fifty (50%) percent of the approved stormwater management facilities as shown on the approved Drainage Plan prior to three (3) years from the date of approval by the Borough Council of the Borough of Waynesboro, the developer may apply for an extension of time, not to exceed three (3) additional years, to complete the stormwater management facilities. If stormwater management facilities included in the approved Drainage Plan have not been constructed, or if an "As-Built Survey" of the facilities has not been approved within this additional three year period, then the Borough of Waynesboro may consider the Drainage Plan disapproved and may revoke any and all permits. Drainage Plans that are considered disapproved by the Borough Council of the Borough of Waynesboro shall be resubmitted in accordance with Section 407 of this Ordinance.

#### SECTION 406. MODIFICATION OF PLANS

A modification to a submitted Drainage Plan for a development site that involves a change in stormwater management facilities or techniques, or that involves the relocation or re-design of stormwater management facilities, or that is necessary because soil or other conditions are not as stated on the Drainage Plan (as determined by the Director of Engineering), shall require a resubmission of the modified Drainage Plan consistent with Section 404 of this Ordinance and be subject to review as specified in Section 405 of this Ordinance.

A modification to an already approved or disapproved Drainage Plan shall be submitted to the Director of Engineering of the Borough of Waynesboro, accompanied by the applicable Review Fee. A modification to a Drainage Plan for which a formal action has not been taken by the Director of Engineering of the Borough of Waynesboro shall be submitted to the Director of Engineering Borough of Waynesboro, accompanied by the applicable Review Fee.

**SECTION 407. RESUBMISSION OF DISAPPROVED DRAINAGE PLANS**

A disapproved Drainage Plan may be resubmitted, with the revisions addressing the Director of Engineering's concerns documented in writing, to the Director of Engineering in accordance with Section 404 of this Ordinance and be subject to review as specified in Section 405 of this Ordinance. The applicable Review Fee must accompany a resubmission of a disapproved Drainage Plan.

ARTICLE V

INSPECTIONS

SECTION 501. SCHEDULE OF INSPECTIONS

- A. The Director of Engineering or his assignee shall inspect all phases of the installation of the permanent stormwater management facilities.
- B. During any stage of the work, if the Director of Engineering determines that the permanent stormwater management facilities are not being installed in accordance with the approved Stormwater Management Ordinance of the Borough of Waynesboro, the Director of Engineering of the Borough of Waynesboro shall revoke any existing permits until a revised Drainage Plan is submitted and approved, as specified in this Ordinance.

ARTICLE VI

FEES AND EXPENSES

SECTION 601. GENERAL

The fees required by this Ordinance are the Borough of Waynesboro Review Fees. The Borough of Waynesboro Review Fee shall be established by Resolution by the Borough Council of the Borough of Waynesboro to defray any inspection review costs incurred by the Borough of Waynesboro and the Director of Engineering. All fees shall be paid by the Applicant. Permits to begin any work on any project shall not be issued until the required fees have been paid.

SECTION 602. EXPENSES COVERED BY FEES

The fees required by this Ordinance shall at a minimum cover:

- A. The review of the Drainage Plan by the Director of Engineering.
- B. The site inspection.
- C. The inspection of stormwater facilities and drainage improvements during construction.
- D. The final inspection upon completion of the stormwater management facilities and drainage improvements presented in the Drainage Plan.
- E. Any additional work required to enforce any permit provisions regulated by this Ordinance, correct violations, and assure proper completion of stipulated remedial actions.

## ARTICLE VII

### MAINTENANCE RESPONSIBILITIES

#### SECTION 701. MAINTENANCE RESPONSIBILITIES

- A. Following final approval of the As-Built Plan by the Borough of Waynesboro, the Developer shall dedicate the permanent stormwater management facilities to the specific entity responsible for the overall maintenance and control of the stormwater management facilities. Any such designated entity, other than the Borough of Waynesboro, shall be approved by the Borough of Waynesboro as an acceptable and duly authorized organization to carry on the responsibility and obligations of maintenance upkeep and be bound by this Ordinance. Such responsible entities shall be set up as legal organizations bound by the laws of the Commonwealth of Pennsylvania and the Borough of Waynesboro. In addition to the Borough of Waynesboro ownership, such entities can be Homeowner' Associations, Corporations, or individual lot owners.
- B. In instances where the permanent control facilities are owned by a private entity (such as a homeowner's association) such entity shall be responsible for maintenance. A written agreement acceptable to the Borough of Waynesboro, for inspection by the Borough of Waynesboro of all such facilities, shall be executed by the entity responsible for this maintenance and the Developer, and submitted by the Developer to the Borough of Waynesboro.
- C. In instances when stormwater management facilities are located on an individual lot, and when they are the responsibility of that landowner to maintain, a description of the facility or system and the terms of the required maintenance shall be incorporated as part of the deed to the property.
- D. In all instances, the Developer shall post financial security in an amount sufficient to cover the present worth of maintenance of the facilities for a ten year period. The financial security shall be based on the estimated annual maintenance cost for the facilities submitted by the Developer and prepared by a Professional Engineer/Surveyor licensed as such in this Commonwealth and certified by such Engineer/Surveyor to be a fair and reasonable estimate of such cost. The Borough of Waynesboro, upon the recommendation of the Director of Engineering, may refuse to accept such estimate for good case shown. If the Developer and the Borough are unable to agree upon an estimate, then the estimate shall be recalculated and recertified by another Professional Engineer/Surveyor licensed as such in this Commonwealth and chosen mutually by the Borough and the Developer. The estimate certified by the third Engineer/Surveyor shall be presumed fair and reasonable and

shall be the final estimate. In the event that a third Engineer/Surveyor is so chosen, fees for the services of said Engineer/Surveyor shall be paid equally by the Borough of Waynesboro and the Developer.

- E. Financial security shall be posted with a Bonding Company or Federal or Commonwealth chartered lending institution chosen by the Party posting the financial security, provided said Bonding Company or bonding institution is authorized to conduct said business within the Commonwealth. In lieu of a bond, the developer may deposit cash or securities with the Borough of Waynesboro or with a bank or trust company to guarantee performance of said contract and to secure completion of the improvements under an escrow agreement approved by the Borough of Waynesboro's Solicitor and the Borough Council of the Borough of Waynesboro. The amount of the bond or other guarantee shall be sufficient to cover the cost of required improvements as estimated by the Engineer. The escrow agent for the deposits of such cash or securities shall be designated and selected by the Borough Council of the Borough of Waynesboro.
- F. Such bond or other security shall provide for and secure to the public, the maintenance cost of the facilities which may be required for a ten year period.
- G. Federal or Commonwealth chartered lending institutions irrevocable letters of credit and restrictive or escrow accounts in such lending institutions are acceptable forms of financial security which may be utilized by a Developer to comply with the requirements of this Article.
- H. If the Borough of Waynesboro determines at any time that any permanent stormwater management control facilities has been eliminated, altered or improperly maintained, the responsible entity shall be advised of corrective measures required and given a reasonable period of time to take necessary action. If such action is not taken by the responsible entity, the Borough of Waynesboro may cause the work to be done and lien all costs plus ten (10) percent against the property of the responsible entity or collect same by an appropriate action of law.

## ARTICLE VIII

### ENFORCEMENT AND PENALTIES

#### SECTION 801. RIGHT OF ENTRY

Upon presentation of proper credentials, duly authorized representatives of the Borough of Waynesboro may enter at reasonable times upon any property within the Borough of Waynesboro to investigate or ascertain the condition of the subject property in regard to any aspect regulated by this Ordinance.

#### SECTION 802. NOTIFICATION

In the event that a person fails to comply with the requirements of this Ordinance, or fails to conform to the requirements of any permit issued hereunder, the Borough of Waynesboro shall provide written notification of the violation(s). Such notification shall set forth the nature of the violation(s) and establish a time limit for correction of these violation(s). Failure to comply within the time specified shall subject such person to the penalty provisions of the Ordinance. All such penalties shall be deemed cumulative and resort to such by the Borough of Waynesboro shall not prevent the Borough of Waynesboro from pursuing any and all other remedies. It shall be the responsibility of the owner of the real property on which any Regulated Activity is proposed to occur, is occurring, or has occurred, to comply with the terms and conditions of this Ordinance.

#### SECTION 803. PENALTIES

- A. Any person who or which has violated any provisions of this Ordinance, shall, upon a judicial determination thereof, be subject to civil judgment for each such violation of not more than One Thousand and 00/100 Dollars (\$1,000.00), plus costs of suit. Each day that a violation occurs shall constitute a separate offense. All fines shall be paid to the Borough of Waynesboro for its use.
- B. In addition, the Borough of Waynesboro may institute injunctive, mandamus or any other appropriate actions or proceedings at law or in equity for the enforcement of this Ordinance. Any court or competent jurisdiction shall have the right to issue restraining orders, temporary or permanent injunctions, mandamus or other appropriate forms of remedy or relief.



ARTICLE IX

MISCELLANEOUS PROVISIONS

SECTION 901. APPEALS

Any person aggrieved by any action of the Director of Engineering of the Borough of Waynesboro may appeal to the Borough Council of the Borough of Waynesboro within thirty (30) days of that action.

SECTION 902. CONSTRUCTION

The various headings used throughout this Ordinance are intended only as an aid in its organization, in order to facilitate ease of reading, and are not to be considered a substantive part of this Ordinance.

SECTION 903. EFFECTIVE DATE

This Ordinance shall be in full force and effect from and after the 1st day of October, 1995.

ENACTED AND ORDAINED into an Ordinance this 16th day of August, 1995.

ATTEST:

Louis M. Barbey Jr.  
Mayor

BOROUGH OF WAYNESBORO

[Signature]  
President of Council

[Signature]  
Borough Secretary

TABLE III

ALLOWABLE FLOW OF WATER ACROSS  
INTERSECTION BY STREET TYPE

Type of Street at Intersection	Allowable Flow
Collector	No Flow Allowed
Subcollector	Flow less than 3 cfs allowed; greater flow must be collected.

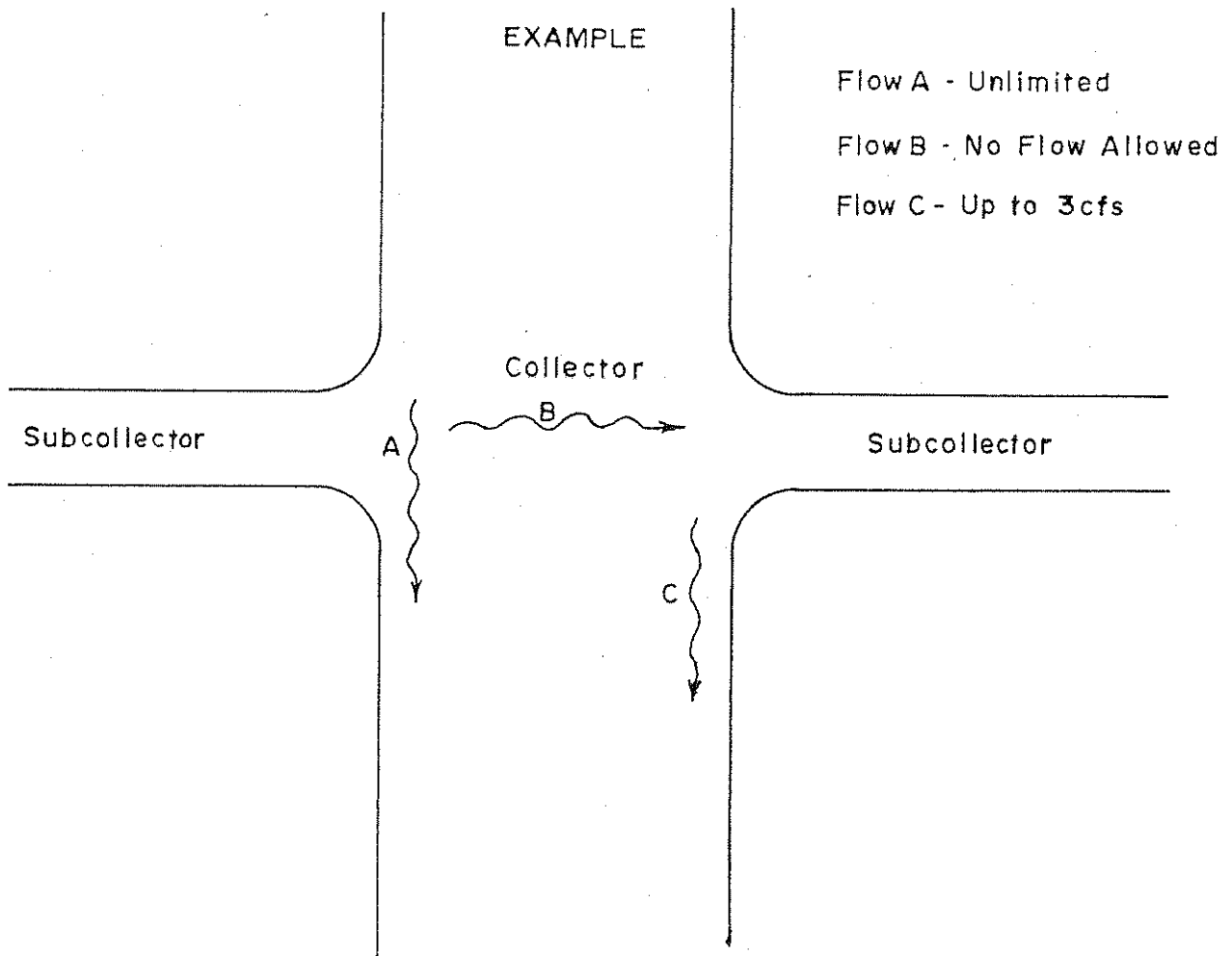


TABLE IV

INLET CAPACITY REDUCTION FACTORS  
ASSUMING PARTIAL CLOGGING

<u>Condition</u>	<u>Inlet Type</u>	<u>Reduction Factor*</u>
Sump	Side Opening	0.80
Sump	Grate	0.50
Sump	Combination	0.65
Continuous Grade	Side Opening	0.80
Continuous Grade	Side Opening with Deflector	0.75
Continuous Grade	Longitudinal Bars	0.60
Continuous Grade	Transverse Bars	0.50
Continuous Grade	Combination	0.60

\*Percentage of theoretical capacity

TABLE V

"n" VALUES FOR MANNING FORMULA

<u>Type of Pipe</u>	<u>"n" Value*</u>
Asbestos Cement	0.013
Concrete Culvert Pipe	0.013
Concrete Sewer Pipe	0.013
Cast Iron	0.013
Corrugated Metal (plain)	0.024
Corrugated Metal (coated)	0.021
Plastic	0.011
Vitrified Clay	0.013

\*Adjustments for specific conditions shall be based on engineering experience and judgement and submitted to the Borough Engineer for approval.

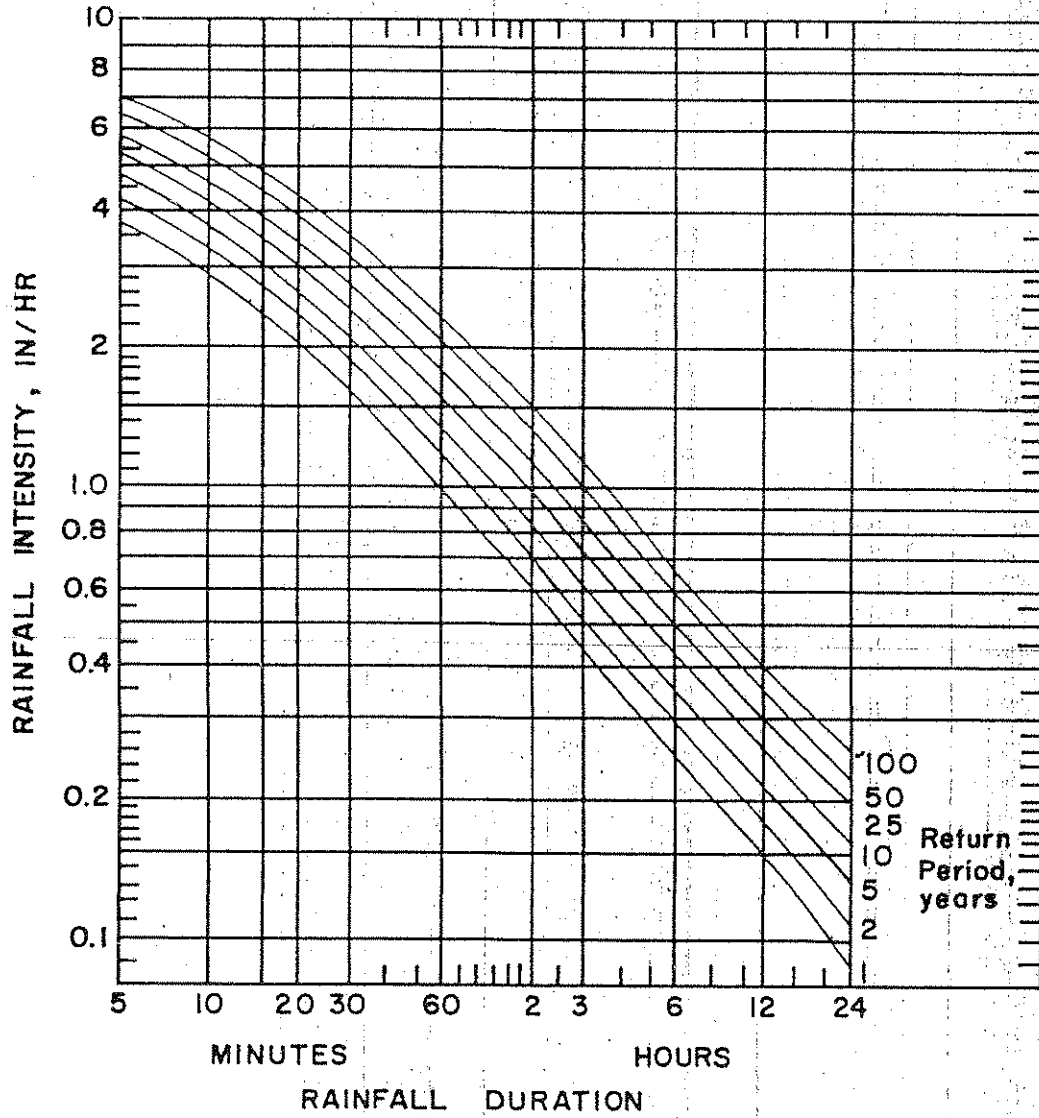
TABLE VI

SPACING OF INSPECTION AND CLEANOUT  
STRUCTURES FOR STORM SEWERS

<u>Size of Pipe (inches)</u>	<u>Maximum Allowable Spacing (feet)</u>
15	400
18 - 36	500
42 - 60	700
66 or larger	Unlimited

FIGURE 1

STORM INTENSITY - DURATION - FREQUENCY



**AMMENDMENTS**

**TO**

**ORDINANCE**

**ORDINANCE NO.**

**AN ORDINANCE OF THE BOROUGH OF WAYNESBORO,  
FRANKLIN COUNTY, PENNSYLVANIA, AMENDING THE  
STORMWATER MANAGEMENT ORDINANCE NO. 961 OF  
THE BOROUGH OF WAYNESBORO**

BE IT ENACTED AND ORDAINED, by the Mayor and Borough Council of the Borough of Waynesboro, Franklin County, Pennsylvania, and it is enacted and ordained as follows:

**SECTION I:** The Stormwater Management Ordinance No. 961 of the Borough of Waynesboro, Article I thereof, Section 104, Subsections C, D and H, is hereby amended and shall read:

- C. Construction of new or additional impervious or semi-pervious surfaces in excess of 2,500 square feet (driveways, parking lots, etc.).
- D. Construction of new buildings or additions to existing buildings in excess of 2,500 square feet.
- H. Land disturbances in excess of 2,500 square feet but excluding those related with agricultural activities.

**SECTION II:** The Stormwater Management Ordinance No. 961 of the Borough of Waynesboro, Article III thereof, Section 302, is hereby amended and shall read:

Pre-development peak run-off rates shall be computed for the 2-year, 10-year, 25- year, and 100-year storm events. The allowable post-development peak run-off rate for each storm event shall be equal to the arithmetic product of the pre-development peak run-off rate and respective release rate percentage shown on Plate A. If the post-development peak run-off rates are less than equal to the allowable release rates, no controls are required. Where site conditions are acceptable, infiltration practices shall be employed to control the post-development peak run-off to the appropriate rate. Where the exclusive use of infiltration practices are not practical or feasible, detention facilities shall be provided solely or in combination with the infiltration facilities to achieve the required peak run-off rate.

**SECTION III:** The Stormwater Management Ordinance No. 961 of the Borough of Waynesboro, Article IV thereof, Section 401, is hereby amended and shall read:

The drainage plan shall be designed and certified by a Professional Engineer, (P.E.), registered in the Commonwealth of Pennsylvania to perform such duties.



**SECTION IV:** The Stormwater Management Ordinance No. 961 of the Borough of Waynesboro, Article IV thereof, Section 402, Subsections A, D, and F, is hereby amended and shall read:

- A. Any Regulated Activity that would create 2,500 square feet or less of impervious area is exempt from the provisions of this Ordinance. This criteria shall apply to the total development (entire parent tract) even if the development is to take place in phases. The date of adoption of this Ordinance shall be the point from which to consider tracts as “parent tracts” for which impervious area shall be inclusively considered. The developer shall be responsible to ensure that exempted activities shall maintain sound building and construction practices such that the quantity, velocity and direction of the resulting stormwater run-off will be adequately protect health, safety, or other property from possible injury.
- D. Agricultural activities when operated in accordance with conservation plan or erosion and sedimentation control plan prepared by the conservation district are specifically exempt from complying with the requirements of this Ordinance. The construction of buildings, parking lots or any activity that results in more than 2,500 square feet of impervious surface shall comply with the requirements of this Ordinance.
- F. All Commercial and/or Agricultural development shall not be eligible for exemptions.

**SECTION V:** The Stormwater Management Ordinance No. 961 of the Borough of Waynesboro, Plate “A” Subarea Release Rate Table, is hereby amended and shall read:

(SEE ATTACHED PLATE A)

**SECTION VI:** The Stormwater Management Ordinance No. 961 of the Borough of Waynesboro, Table VII Rational Runoff Coefficients, is hereby amended and shall read:

(SEE ATTACHED TABLE)

**SECTION VII:** The Stormwater Management Ordinance No. 961 of the Borough of Waynesboro, Article III thereof, Section 304, Subsection F, is hereby amended and shall read:

- F. Runoff coefficients (c) for both existing and proposed conditions for use in the Rational Method shall only be obtained from Table VII Rational Runoff Coefficients and shall be subject to the approval of the Head of Borough Engineering Services or his Representative.

**SECTION VIII:** Repealer. All provisions of previous Ordinances of the Borough of Waynesboro, which are contrary to this Ordinance, are expressly repealed.

**SECTION IX:** Savings Clause. In all other respects, the Stormwater Management Ordinance of the Borough of Waynesboro shall remain as previously enacted and ordained.

**SECTION X:** Effective Date. This Ordinance shall become effective upon adoption.

ENACTED, ORDAINED AND APPROVED this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
President of Borough Council

Attest:

\_\_\_\_\_  
Secretary to Borough Council

Approved this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
Mayor

