

Version 4. (4-24-2023)

Proposed text amendment to 6-188.

Sec. 6-188. - Stormwater management.

- (a) *Stormwater management.* All developments and earth changes subject to review under the requirements of this chapter shall be designed, constructed, and maintained to prevent flooding and protect water quality. The particular facilities and measures required on site shall reflect the natural features, wetlands, and watercourses on the site; the potential for on-site and off-site flooding, water pollution, and erosion; and the size of the site.

Available public storm sewer system - A public storm sewer system located in a right-of-way, easement, highway, or public way which crosses, adjoins, abuts, or is contiguous to the property involved.

- Stormwater management shall comply with the following standards:
 - (1) The design of storm water management systems shall be submitted to the Ingham County Drain Commission for review of the storm water management design.
 - (2) The design of storm sewers, detention facilities, and other stormwater management facilities shall comply with the standards of the village municipal standards and the Ingham County Drain Commissioner if deemed applicable.
 - 2a. If the Ingham County Drain Commissioner issues a determination that the property's storm water management system does not have an impact on the County Drainage System (County Drain), then: if it can be demonstrated to the satisfaction of the Village Engineer that the storm water management design is sufficient, the Village Engineer shall be empowered to approve the drainage design.
 - (2) Stormwater management conveyance, storage and infiltration measures and facilities shall be designed to prevent flood hazards and water pollution related to stormwater runoff and soil erosion from the proposed development.
 - (3) The use of swales and vegetated buffer strips is encouraged in cases where the planning commission deems to be safe and otherwise appropriate as a method of stormwater conveyance so as to decrease runoff velocity, allow for natural infiltration, allow suspended sediment particles to settle, and to remove pollutants.
 - (4) Alterations to natural drainage patterns shall not create flooding water pollution for adjacent or downstream property owners.

- (5) Discharge of runoff from any site which may contain oil, grease, toxic chemicals, or other polluting materials is prohibited. If a property owner desires to propose measures to reduce and trap pollutants, the owner must meet the requirements of the Michigan Department of Environmental Quality and the Ingham County Drain Commissioner. If Ingham County Drain Commission **drain and** has no jurisdiction of storm water at site, based upon professionally accepted principles, such a proposal shall be submitted and reviewed by the village engineer, with consultation of appropriate experts.
- (6) Drainage systems shall be designed to protect public health and safety and to be visually attractive, taking into consideration viable alternatives.
- (a) *On-site stormwater management:* For the purpose of controlling drainage to off-site properties and drainage ways, all properties which are developed under this chapter, whether new or improved shall provide for on-site storage of stormwater in accordance with the current Ingham County Drain Commission's standards. If the project does not have an impact on a County Drain, and if no viable outlet option is available, a retention-only storm water design is acceptable, if it can be demonstrated to the satisfaction of the Village Engineer that the retention design is sufficient (the Village Engineer may 'disregard' Ingham County Drain Commission's Supplemental Standards #4).

Public Hearing advertisement on April 16, 2023, Lansing State Journal

_____ Date: _____

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(Ord. No. 2018.10-1, 10-1-2018)

Rules Of the Ingham County Drain Commissioner, 2005 Edition, as amended.

Standards for Stormwater Management

Systems. Procedures and Design Criteria

Supplemental Standards No. 4 — September 28, 2021

The following Sections of the Rules of the Ingham County Drain Commissioner, 2005 Edition, is hereby revised and amended as follows:

PART 3: DESIGN CRITERIA FOR STORMWATER MANAGEMENT SYSTEMS

Add the following sentence on page 18 at the end of the introductory statement to PART 3. DESIGN CRITERIA FOR STORMWATER MANAGEMENT SYSTEMS on pages 17-18:

All calculations for stormwater management systems, wherever applicable throughout these Rules, shall be based on National Oceanic Atmospheric Administration (NOAA) Atlas 14, as amended or updated.

The remainder of the introductory statement remains unchanged.

PART 3: DESIGN CRITERIA FOR STORMWATER MANAGEMENT SYSTEMS

SECTION 4: Retention Basins

Correct the spelling of the heading of Section 4 from SECYION 4 to SECTION 4.

Section 4.A to read as follows:

A. No Outlet Retention Basins

Retention basins with no outlet will not be allowed.

The remainder of Part 3, Section 4 remains unchanged.

PART 3: DESIGN CRITERIA FOR STORMWATER MANAGEMENT SYSTEMS

SECTION 5: Detention Retention Basins

5.1 and 5.3 remain unchanged.

Revise Section 5.2 to read as follows:

2. At a minimum, the volume of the permanent pool should at least of the IOO year storage volume.

Patrick E. Lindemann, Ingham County Drain Commissioner

Rules Of the Ingham County Drain Commissioner, 2005 Edition, as amended.

Standards for Stormwater Management
Systems. Procedures and Design Criteria

Supplemental Standards No. 4 — September 28, 2021

The following Sections of the Rules of the Ingham County Drain Commissioner, 2005 Edition, and Supplemental Standards No. 3 are hereby revised and amended as follows:

PART 3: DESIGN CRITERIA FOR STORMWATER MANAGEMENT SYSTEMS SECTION 3: Retention and Detention Systems

Section 3: Paragraphs 1 through 5. and 6.a., 6.b., 6.c., 6.d., 6.e., 6.f. remain unchanged.

Revise Section 3: A, paragraph 6.d, to read as follows:

- d. The volume and storage provided for controlling the bank full flood will be equal to or in excess of the runoff from a 2.0-year 24-hour storm, as calculated pursuant to the Michigan Department of Natural Resources' Stormwater Runoff Volume Control Calculation Spreadsheet, as amended or updated.