

APPENDIX A: NEW ROAD CONSTRUCTION

Section

1. Base and Surface Construction
2. Pipe Underdrains
3. Aggregate Ditch
4. Alternative Drainage Design for Subdivisions Zoned R-1.

§ 1. BASE AND SURFACE CONSTRUCTION.

(A) The base material shall consist of bituminous aggregate mixture (BAM) in accordance with Section 312 of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction in Illinois (SSRBC) dated July 1, 1984 as it may be amended from time to time. The BAM base course shall be seven inches thick when compacted to not less than 93% of the maximum theoretical density. The BAM base course shall be installed in two lifts neither of which shall exceed a maximum of four inches per compacted layer. The surface of each layer shall be clean and dry before succeeding layers are placed.

(B) The surface course shall consist of bituminous concrete (Class I) not less than two inches when compacted to not less than 93% of the maximum theoretical density, and shall be placed under the following conditions:

(1) After the base course has weathered two winters, the Village Engineer shall make an inspection for failures in the base course.

(2) Any failures in the base course noted by the Village Engineer shall be repaired according to the standards set forth in Section 620 of the Standard Specifications for Road and Bridge Construction in Illinois (SSRBC) relating to pavement patching, as published by the Illinois Department of Transportation, or any substitute or successor regulation thereto.

(3) The entire base course of the pavement shall have a geotechnical fabric applied as specified for Reflective Crack Control System A per SSRBC Section 443 pertaining to Reflective Crack Control Treatment of the SSRBC, or any substitute or successor regulation thereto.

(‘77 Code, Ch. 23, Spec. A(1)) (Ord. 88-2, passed 2-15-88)

Appendix A: New Road Construction

§ 2. PIPE UNDERDRAINS.

(A) The drainage swales on both sides of the pavement of all public streets shall have a minimum eight-inch diameter pipe underdrain installed meeting the provisions of Section 607 of the SSRBC relating to pipe drains and underdrains. Course aggregate No. 16 shall be used in place of fine aggregate No. 1 or 2 as specified in Section 607. The trench shall be wrapped using a fabric envelope meeting the requirements of “Special Provisions for Pipe Underdrains” (Check Sheet No. 19 in the Supplemental Specifications and Recurring Special Provisions Booklet) published by the Illinois Department of Transportation, or any substitute or successor regulation thereto.

(B) The sump pump discharge line from buildings on the lots within the subdivision and septic system curtain drain discharge lines shall be connected to the pipe underdrains in the drainage swales. All connections shall be effected through tee or wye fittings.

(C) The Village Engineer, in his sole discretion, may, but shall not be required to, waive the pipe underdrain requirements of division (A) of this section for a particular project provided the proposed gradient of the drainage swale is 2% or greater.

(‘77 Code, Ch. 23, Spec. A(2)) (Ord. 88-2, passed 2-15-88)

§ 3. AGGREGATE DITCH.

(A) The drainage swales on both sides of the pavement of all streets shall be a four foot wide aggregate ditch lining installed meeting the requirements of Section 283 of the SSRBC relating to flexible ditch lining and aggregate ditches, or any substitute or successor regulation thereto.

(B) The aggregate ditch lining shall be continuous throughout the drainage swales. Culvert crossings of the drainage swales shall be installed at the top of the aggregate ditch lining.

(C) The Village Engineer, in his sole discretion, may waive the aggregate ditch requirements of divisions (A) and (B) of this section for a particular project provided the proposed gradient of the drainage swale is 2% or greater and the design engineer can demonstrate to the satisfaction of the Village Engineer that the elimination of the aggregate ditch will not cause erosion of the drainage swale.

(‘77 Code, Ch. 23, Spec. A(3)) (Ord. 88-2, passed 2-15-88)

§ 4. ALTERNATIVE DRAINAGE DESIGN FOR SUBDIVISIONS ZONED R-1.

(A) The Village shall permit for subdivisions in which the smallest lot is one acre or larger curbs, gutters and storm sewers to be constructed as an alternative to the pipe underdrain and aggregate ditch requirements of §§ 2 and 3 above per the following design standards:

(1) Combination concrete curbs and gutters shall meet the standards of Section M-3.12 of the SSRBC or any substitute or successor regulation thereto.

Title XV: Land Usage

(2) The street pavement widths as listed in § 155.40(A)(1), (2) and (3) shall be maintained with the combination concrete curb and gutter widths being in addition to the pavement widths.

(3) The street pavements shall be drained by a storm drainage system designed to accept the runoff from a storm with an intensity expected once in ten years and a maximum overland flow distance of 300 feet. The rational method of storm sewer sizing shall be utilized in the design. The design engineer shall provide the Village Engineer with a topographic survey of the entire watershed in which the proposed subdivision is located. The storm sewer system in the proposed subdivision shall be sized to accept the runoff from all tributary areas at the design storm intensity and at a coefficient of runoff anticipated for the property in a condition developed to the Village standards.

(4) Storm sewers, manholes, catch basins and inlets shall be constructed in accordance with Sections 550 and 602 of the SSRBC, or any substitute or successor regulation thereto.

(5) All lots within the subdivision anticipated to be improved with a building or buildings shall also be improved with a six-inch diameter storm sewer service line connected to the storm drainage system within the subdivision. The sump pump discharge line from buildings proposed for construction as well as the septic system curtain drain discharge line shall be connected to the storm sewer service line. The storm sewer service line shall be constructed in accordance with Section 601 of the SSRBC, or any substitute or successor regulation thereto.

(‘77 Code, Ch. 23, Spec. A(4)) (Ord. 88-2, passed 2-15-88)