Ordinance No. 15-03

AN ORDINANCE AMENDING CHAPTER 155 OF THE VILLAGE OF CHATHAM CODE OF ORDINANCES PERTAINING TO SUBDIVISIONS

BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF CHATHAM, SANGAMON COUNTY, ILLINOIS, AS FOLLOWS:

SECTION 1: Section 155.092(C) of the Code of Ordinances of the Village of Chatham is amended to state as follows:

(C) All local and collector streets shall be installed in accordance with the following pavement standards:

(1) **Subgrade:**

(a) 6" Compacted Aggregate Sub base (CA-6). For Asphalt Alternate.
(b) 4" Compacted Aggregate Sub base (CA-6). For Concrete Alternate.

(2) **Asphalt: pavement alternate:**

(a) The pavement design will consist of 4" of bituminous concrete binder course (Superpave IL 19N50) and 2" of bituminous concrete surface course (Superpave Mix C, N50).

(b) All subgrades shall be inspected by the village's consulting engineer. If the engineer deems necessary, subgrades will be proof rolled prior to paving.

(c) If the street is a minor arterial, the above binder and surface shall be increased to 6" and 2". All major arterial roadways will be designed in accordance with Illinois DOT pavement design standards and as described in the "Pavement Design" section below.

(d) All asphalt material testing shall conform to the latest Illinois DOT Quality Control/Quality Assurance procedures for documentation.

(3) **Concrete: pavement alternate:**

(a) A minimum of 6" un-reinforced Portland cement concrete pavement according to Section 420 of IDOT specifications shall be employed. All transverse contraction joints shall be 15 feet and sealed per ASTM D3405.

(b) If the street is a minor arterial, the pavement shall be increased to 8". All transverse contraction joints shall be 20 feet and sealed per ASTM D3405.

(4) **Pavement Design.**

(a) All major arterial pavements shall be designed in accordance with the requirements contained in the latest, revised edition of the State of Illinois DOT Design Manual and shall be designed for a 20-year period. The minimum requirements listed in the tables of the Design Manual shall govern at all times.

(b) An Illinois Bearing Ratio of 3.0 (IBR = 3.0) shall be used in pavement design unless the subdivider's engineer submits soil tests justifying a different IBR.

(c) Vehicular traffic volumes and vehicle classification percentages used in the design shall be approved by the village's consulting engineer.

(d) In all cases the minimum street will govern if the above major arterial design is less.

SECTION 2: Section 155.097 of the Code of Ordinances of the Village of Chatham is amended to state as follows:

§ 155.097 BACKFILL OVER UNDERGROUND UTILITIES.

(A) Where an underground utility is to be placed in an area which has a permanent type street or sidewalk surface, or upon which such a surface is to be constructed within a period of one year, the backfill above the utility or in case of sewers, above the top of the granular cradle, to the level of the bottom of the permanent type pavement shall be made. This material will be in all areas where utility trenches cross the pavement subgrade except in areas where rock will be used to stabilize the subgrade. The backfill shall be IDOT CA-7, CA-8 or CA-11 with a 12-inch cap of IDOT CA-6. Boiler slag and pit run sand will not be permitted.

(B) As an alternate, the use of "flowable fill" will be permitted. This mix shall consist of a lean concrete mix with no less than 50 lbs. of cement per cubic yard, 200 to 600 lbs. of fly ash, 2,000 to 3,000 lbs. of fine aggregate and 35 to 65 gallons of water. Minimum 28 day compressive strength shall not be less than 150 psi.

(C) In areas not subject to vehicular traffic at the time of construction and not likely to be subject to vehicular traffic within one year of completion in the opinion of the village's consulting engineer, backfill shall be made as per the detail for pipe installation detail in the STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN IN THE ILLINOIS (LATEST EDITION)

Ordinance No. 15-03

AN ORDINANCE AMENDING CHAPTER 155 OF THE VILLAGE OF CHATHAM CODE OF ORDINANCES PERTAINING TO SUBDIVISIONS

BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF CHATHAM, SANGAMON COUNTY, ILLINOIS, AS FOLLOWS:

SECTION 1: Section 155.092(C) of the Code of Ordinances of the Village of Chatham is amended to state as follows:

(C) All local and collector streets shall be installed in accordance with the following pavement standards:

(1) **Subgrade:**

(a) 6" Compacted Aggregate Sub base (CA-6). For Asphalt Alternate.
(b) 4" Compacted Aggregate Sub base (CA-6). For Concrete Alternate.

(2) **Asphalt: pavement alternate:**

(a) The pavement design will consist of 4" of bituminous concrete binder course (Superpave IL 19N50) and 2" of bituminous concrete surface course (Superpave Mix C, N50).

(b) All subgrades shall be inspected by the village's consulting engineer. If the engineer deems necessary, subgrades will be proof rolled prior to paving.

(c) If the street is a minor arterial, the above binder and surface shall be increased to 6" and 2". All major arterial roadways will be designed in accordance with Illinois DOT pavement design standards and as described in the "Pavement Design" section below.

(d) All asphalt material testing shall conform to the latest Illinois DOT Quality Control/Quality Assurance procedures for documentation.

(3) **Concrete: pavement alternate:**

(a) A minimum of 6" un-reinforced Portland cement concrete pavement according to Section 420 of IDOT specifications shall be employed. All transverse contraction joints shall be 15 feet and sealed per ASTM D3405.

(b) If the street is a minor arterial, the pavement shall be increased to 8". All transverse contraction joints shall be 20 feet and sealed per ASTM D3405.

(4) **Pavement Design.**

(a) All major arterial pavements shall be designed in accordance with the requirements contained in the latest, revised edition of the State of Illinois DOT Design Manual and shall be designed for a 20-year period. The minimum requirements listed in the tables of the Design Manual shall govern at all times.

(b) An Illinois Bearing Ratio of 3.0 (IBR = 3.0) shall be used in pavement design unless the subdivider's engineer submits soil tests justifying a different IBR.

(c) Vehicular traffic volumes and vehicle classification percentages used in the design shall be approved by the village's consulting engineer.

(d) In all cases the minimum street will govern if the above major arterial design is less.

SECTION 2: Section 155.097 of the Code of Ordinances of the Village of Chatham is amended to state as follows:

§ 155.097 BACKFILL OVER UNDERGROUND UTILITIES.

(A) Where an underground utility is to be placed in an area which has a permanent type street or sidewalk surface, or upon which such a surface is to be constructed within a period of one year, the backfill above the utility or in case of sewers, above the top of the granular cradle, to the level of the bottom of the permanent type pavement shall be made. This material will be in all areas where utility trenches cross the pavement subgrade except in areas where rock will be used to stabilize the subgrade. The backfill shall be IDOT CA-7, CA-8 or CA-11 with a 12-inch cap of IDOT CA-6. Boiler slag and pit run sand will not be permitted.

(B) As an alternate, the use of "flowable fill" will be permitted. This mix shall consist of a lean concrete mix with no less than 50 lbs. of cement per cubic yard, 200 to 600 lbs. of fly ash, 2,000 to 3,000 lbs. of fine aggregate and 35 to 65 gallons of water. Minimum 28 day compressive strength shall not be less than 150 psi.

(C) In areas not subject to vehicular traffic at the time of construction and not likely to be subject to vehicular traffic within one year of completion in the opinion of the village's consulting engineer, backfill shall be made as per the detail for pipe installation detail in the STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN IN THE ILLINOIS (LATEST EDITION)

SECTION 3: Section 155.099(A) of the Code of Ordinances of the Village of Chatham is amended by the addition of subsection (A)(3), to state as follows:

(3) The Developer or Contractor shall record a video of each sanitary sewer line upon completion and testing thereof, and shall provide the video to the Village of Chatham and the Village Engineer on a DVD or in such other file format and on such storage medium as may be required by the Village.

SECTION 4: This ordinance is effective upon its passage, approval and publication as required by law. The Clerk shall publish this ordinance in pamphlet form and see to its inclusion in the next update of the Village of Chatham Code of Ordinances.

PASSED this 27 day of JAN, 2015.

Thomas J Kay
VILLAGE PRESIDENT

ATTEST:
Pat Schaal
Village Clerk

AYES: 6 CLAYTON KIMSEY BOYLE HOLDEN FORMEA SCHATTEMAN
NAYS: 0

PASSED: 1-27-15
APPROVED: 1-27-15

ABSENT: 0

(C) All local and collector streets shall be installed in accordance with the following pavement standards:

(1) **Subgrade:** At the option of the subdivider, 12" lime stabilized soil per latest IDOT Standard shall be employed from back-of-curb to back-of-curb. If this option is chosen, the subdivider shall cut the subgrade to an elevation of no more than one-half inch above the proposed bottom of the pavement before the lime stabilization treatment is applied. This will prevent the need for excessive trimming of the treated subgrade during final grading and ensure the proper thickness of lime stabilized soil.

(2) **Asphalt: pavement alternate:**

(a) (Alternate A). If the subgrade is treated as in above, the pavement design will consist of 4" of bituminous concrete binder course (Superpave IL 19N50) and 2" of bituminous concrete surface course (Superpave Mix C, N50)

(b) (Alternate B). If the subgrade is not lime treated, the pavement shall consist of 6" bituminous concrete binder course (Superpave IL 19N50) and 2" of bituminous concrete surface course (Superpave Mix C, N50)

(3) All subgrades shall be inspected by the village's consulting engineer. If the engineer deems necessary, subgrades will be proof rolled prior to paving.

(4) (a) If the street is a minor arterial, the above binder and surface shall be increased to 6" and 2" for the lime treated and 8" and 2" respectively for the non-lime treated subgrades. All major arterial roadways will be designed in accordance with Illinois DOT pavement design standards and as described in the "Pavement Design" section below.

(b) All asphalt material testing shall conform to the latest Illinois DOT Quality Control/Quality Assurance procedures for documentation.

(5) **Concrete: pavement alternate:**

(a) Regardless if the subgrade is treated, a minimum of 6" un-reinforced Portland cement concrete pavement according to Section 420 of IDOT specifications shall be employed. All transverse contraction joints shall be 15 feet and sealed per ASTM D3405.

(b) If the street is a minor arterial, the pavement shall be increased to 8". All transverse contraction joints shall be 20 feet and sealed per ASTM D3405.

(6) **Pavement Design.**

(a) All major arterial pavements shall be designed in accordance with the requirements contained in the latest, revised edition of the State of Illinois DOT Design Manual and shall be designed for a 20-year period. The minimum requirements listed in the tables of the Design Manual shall govern at all times.

(b) An Illinois Bearing Ratio of 3.0 (IBR = 3.0) shall be used in pavement design unless the subdivider's engineer submits soil tests justifying a different IBR.

(c) Vehicular traffic volumes and vehicle classification percentages used in the design shall be approved by the village's consulting engineer.

New

(C) All local and collector streets shall be installed in accordance with the following pavement standards:

(1) **Subgrade:**

(a) 6" Compacted Aggregate Sub base (CA-6). For Asphalt Alternate.
(b) 4" Compacted Aggregate Sub base (CA-6). For Concrete Alternate.

(2) **Asphalt: pavement alternate:**

(a) The pavement design will consist of 4" of bituminous concrete binder course (Superpave IL 19N50) and 2" of bituminous concrete surface course (Superpave Mix C, N50).

(b) All subgrades shall be inspected by the village's consulting engineer. If the engineer deems necessary, subgrades will be proof rolled prior to paving.

(c) If the street is a minor arterial, the above binder and surface shall be increased to 6" and 2". All major arterial roadways will be designed in accordance with Illinois DOT pavement design standards and as described in the "Pavement Design" section below.

(d) All asphalt material testing shall conform to the latest Illinois DOT Quality Control/Quality Assurance procedures for documentation.

(3) **Concrete: pavement alternate:**

(a) A minimum of 6" un-reinforced Portland cement concrete pavement according to Section 420 of IDOT specifications shall be employed. All transverse contraction joints shall be 15 feet and sealed per ASTM D3405.

(b) If the street is a minor arterial, the pavement shall be increased to 8". All transverse contraction joints shall be 20 feet and sealed per ASTM D3405.

(4) **Pavement Design.**

(a) All major arterial pavements shall be designed in accordance with the requirements contained in the latest, revised edition of the State of Illinois DOT Design Manual and shall be designed for a 20-year period. The minimum requirements listed in the tables of the Design Manual shall govern at all times.

(b) An Illinois Bearing Ratio of 3.0 (IBR = 3.0) shall be used in pavement design unless the subdivider's engineer submits soil tests justifying a different IBR.

(c) Vehicular traffic volumes and vehicle classification percentages used in the design shall be approved by the village's consulting engineer.

OLD

§ 155.097 BACKFILL OVER UNDERGROUND UTILITIES.

(A) Where an underground utility is to be placed in an area which has a permanent type street or sidewalk surface, or upon which such a surface is to be constructed within a period of one year, the backfill above the utility or in case of sewers, above the top of the granular cradle, to the level of the bottom of the permanent type pavement shall be made. This material will be in all areas where utility trenches cross the pavement subgrade except in areas which will be lime treated or areas where rock will be used to stabilize the subgrade. The backfill shall be IDOT CA-7, CA-8 or CA-11 with a 12-inch cap of IDOT CA-6. Boiler slag and pit run sand will not be permitted. If the developer chooses to stabilize the subgrade with lime as described in § 155.092, the CA-6 cap shall be constructed below grade to allow for an additional 12-inch cap of lime stabilized soil.

(B) As an alternate, the use of "flowable fill" will be permitted. This mix shall consist of a lean concrete mix with no less than 50 lbs. of cement per cubic yard, 200 to 600 lbs. of fly ash, 2,000 to 3,000 lbs. of fine aggregate and 35 to 65 gallons of water. Minimum 28 day compressive strength shall not be less than 150 psi.

(C) In areas not now subject to vehicular traffic, nor in the opinion of the village's consulting engineer likely to be within a period of one year, backfill may be made with selected excavation material which is free from clods and stones, provided such trench backfill is adequately jetted from the bottom up completely filling the trench immediately after backfilling.
(Ord. 94-01, passed 1-25-94; Am. Ord. 05-05, passed 2-22-05)

§ 155.098 SIDEWALKS.

Concrete sidewalks at least four feet wide and four inches thick shall be constructed on both sides of each street at least four and one-half feet from and at least four inches above the backs of the curbs. Sidewalks shall be located one foot inside the street right-of-way. Sidewalks shall be constructed along all streets bordering the subdivision. All sidewalks along arterials and minor arterials shall be five feet wide. All walks at corner lots shall be extended out to gutter(s) as shown in Appendix A-5. The developer shall construct the ADA sidewalk ramps (as depicted in Appendix A-5) on all corners at the time of street and curb and gutter construction. The developer shall also construct all mid-block and cul-de-sac sidewalk connections (running perpendicular to the street and/or between two properties) at the time of street and curb and gutter construction.
(Ord. 94-01, passed 1-25-94; Am. Ord. 94-53, passed 8-9-94; Am. Ord. 05-05, passed 2-22-05)

§ 155.099 SEWAGE DISPOSAL.

(A) *Sanitary sewers.*

(1) When a subdivision is located within the service area of a public sanitary sewerage system, sanitary sewers shall be constructed throughout the entire subdivision in such a manner as to serve adequately each building lot.

(a) Public sanitary sewers shall be located in the north or west boulevard (between curb and sidewalk) within the street right-of-way or in a 15' easement behind the sidewalk within the house setback area. Parallel sewer lines along the street may be used. Sanitary sewers shall not be located in the rear yard.

New

§ 155.097 BACKFILL OVER UNDERGROUND UTILITIES.

(A) Where an underground utility is to be placed in an area which has a permanent type street or sidewalk surface, or upon which such a surface is to be constructed within a period of one year, the backfill above the utility or in case of sewers, above the top of the granular cradle, to the level of the bottom of the permanent type pavement shall be made. This material will be in all areas where utility trenches cross the pavement subgrade except in areas where rock will be used to stabilize the subgrade. The backfill shall be IDOT CA-7, CA-8 or CA-11 with a 12-inch cap of IDOT CA-6. Boiler slag and pit run sand will not be permitted.

(B) As an alternate, the use of "flowable fill" will be permitted. This mix shall consist of a lean concrete mix with no less than 50 lbs. of cement per cubic yard, 200 to 600 lbs. of fly ash, 2,000 to 3,000 lbs. of fine aggregate and 35 to 65 gallons of water. Minimum 28 day compressive strength shall not be less than 150 psi.

(C) In areas not now subject to vehicular traffic, nor in the opinion of the village's consulting engineer likely to be within a period of one year, backfill shall be made as per the detail for pipe installation detail in the STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN IN THE ILLINOIS (LATEST EDITION)

§ 155.098 SIDEWALKS.

Concrete sidewalks at least four feet wide and four inches thick shall be constructed on both sides of each street at least four and one-half feet from and at least four inches above the backs of the curbs. Sidewalks shall be located one foot inside the street right-of-way. Sidewalks shall be constructed along all streets bordering the subdivision. All sidewalks along arterials and minor arterials shall be five feet wide. All walks at corner lots shall be extended out to gutter(s) as shown in Appendix A-5. The developer shall construct the ADA sidewalk ramps (as depicted in Appendix A-5) on all corners at the time of street and curb and gutter construction. The developer shall also construct all mid-block and cul-de-sac sidewalk connections (running perpendicular to the street and/or between two properties) at the time of street and curb and gutter construction.
(Ord. 94-01, passed 1-25-94; Am. Ord. 94-53, passed 8-9-94; Am. Ord. 05-05, passed 2-22-05)

§ 155.099 SEWAGE DISPOSAL.

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(a) Public sanitary sewers shall be located in the north or west boulevard (between curb and sidewalk) within the street right-of-way or in a 15' easement behind the sidewalk within the house setback area. Parallel sewer lines along the street may be used. Sanitary sewers shall not be located in the rear yard.

OLD

(b) Under no circumstance shall the entrance of storm water or ground water to the sanitary sewers be permitted.

(c) All sanitary sewer collections and disposal systems shall comply with the ordinances of the Village of Chatham, the Springfield Metro Sanitary District and the requirements of the Illinois Environmental Protection Agency.

(2) Acceptable sanitary pipe materials shall be acceptable to the Springfield Metro Sanitary District and shall consist of:

(a) PVC composite sewer pipe conforming to ASTM D 2680 with solvent weld or gasketed joints; or

(b) Polyvinyl Chloride (PVC) sewer pipe conforming to ASTM D 3034, type PSM for sizes 4" - 15" and ASTM F-679 for sizes 18" - 27". Minimum acceptable SDR shall be 35; or

(c) PVC corrugated sewer pipe with a smooth interior. This pipe shall conform to the requirements of ASTM Standard F794 and Uni-bell Uni-P-9. Pipe shall be made of PVC material having a cell classification of 124-54-B as defined in ASTM D 1784. Pipe stiffness at 5% deflection shall be 46 psi for all sizes (8" - 30") when tested in accordance with ASTM 2412. PVC pipe meeting ASTM F-942 is not acceptable.

(d) In all locations where lateral sewers have less than five feet of cover, Class 52 ductile iron pipe shall be used. The developer shall supply and use proper adaptors to connect the ductile iron pipe.

NOTE: All sanitary laterals will be marked by using a 2" x 4" (painted orange) board 4' above the ground to denote location of service lines.

(B) *Private sewage disposal systems.* Where no public sanitary sewerage system is available (See § 155.022(A)(1)), individual sanitary disposal systems shall be installed to service individual dwelling units according to conditions set forth in § 155.022. These sanitary disposal systems shall be installed in accordance with the latest revised edition of the Illinois Private Sewage Disposal Licensing Act and private sewage disposal code promulgated by the Illinois Department of Public Health and the applicable ordinance of the village. Sufficient area shall be provided to accommodate two seepage fields.
(Ord. 94-01, passed 1-25-94; Am. Ord. 94-53, passed 8-9-94; Am. Ord. 05-05, passed 2-22-05)

§ 155.100 WATER SUPPLY.

(A) *Public water supply.*

(1) Water mains not less than six inches in diameter shall be constructed throughout the entire subdivision. Larger diameter pipes may be required by the village to provide for future transmission needs, in which case, the village shall pay any incremental costs, over and above the costs to install a six-inch main. All mains shall conform to SDR 21 requirements and shall be installed with No. 12 insulated tracing wire, secured at every joint with duct tape and exposed in every valve box.

(2) Every water supply system shall be designed in such a manner as to provide an area fire flow meeting the requirements established by the Fire Safety Division of the Fire Department. Water mains larger than six inches in diameter shall be installed at the subdivider's expense if needed to provide the area fire flow required by the Insurance Services office guild for determination of

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(b) Under no circumstance shall the entrance of storm water or ground water to the sanitary sewers be permitted.

(c) All sanitary sewer collections and disposal systems shall comply with the ordinances of the Village of Chatham, the Springfield Metro Sanitary District and the requirements of the Illinois Environmental Protection Agency.

(2) Acceptable sanitary pipe materials shall be acceptable to the Springfield Metro Sanitary District and shall consist of:

(a) PVC composite sewer pipe conforming to ASTM D 2680 with solvent weld or gasketed joints; or

(b) Polyvinyl Chloride (PVC) sewer pipe conforming to ASTM D 3034, type PSM for sizes 4" - 15" and ASTM F-679 for sizes 18" - 27". Minimum acceptable SDR shall be 35; or

(c) PVC corrugated sewer pipe with a smooth interior. This pipe shall conform to the requirements of ASTM Standard F794 and Uni-bell Uni-P-9. Pipe shall be made of PVC material having a cell classification of 124-54-B as defined in ASTM D 1784. Pipe stiffness at 5% deflection shall be 46 psi for all sizes (8" - 30") when tested in accordance with ASTM 2412. PVC pipe meeting ASTM F-942 is not acceptable.

(d) In all locations where lateral sewers have less than five feet of cover, Class 52 ductile iron pipe shall be used. The developer shall supply and use proper adaptors to connect the ductile iron pipe.

(3) The Contractor shall video each sanitary sewer line. The DVD will be delivered to the Village of Chatham and the Village Engineer.

NOTE: All sanitary laterals will be marked by using a 2" x 4" (painted orange) board 4' above the ground to denote location of service lines.

(B) *Private sewage disposal systems.* Where no public sanitary sewerage system is available (See § 155.022(A)(1)), individual sanitary disposal systems shall be installed to service individual dwelling units according to conditions set forth in § 155.022. These sanitary disposal systems shall be installed in accordance with the latest revised edition of the Illinois Private Sewage Disposal Licensing Act and private sewage disposal code promulgated by the Illinois Department of Public Health and the applicable ordinance of the village. Sufficient area shall be provided to accommodate two seepage fields.
(Ord. 94-01, passed 1-25-94; Am. Ord. 94-53, passed 8-9-94; Am. Ord. 05-05, passed 2-22-05)

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(2) Every water supply system shall be designed in such a manner as to provide an area fire flow meeting the requirements established by the Fire Safety Division of the Fire Department. Water

ORDINANCE CERTIFICATE

STATE OF ILLINOIS)
) SS.
COUNTY OF SANGAMON)

I, the undersigned, do hereby certify that I am the duly qualified and acting Village Clerk of the Village of Chatham, Sangamon County, Illinois.

I do further certify that the ordinance attached hereto is a full, true, and exact copy of Ordinance No. 15-03 adopted by the President and Board of Trustees of said Village on the 27 day of JAN, 2015, said Ordinance being entitled:

AN ORDINANCE AMENDING CHAPTER 155 OF THE VILLAGE OF CHATHAM CODE OF ORDINANCES PERTAINING TO SUBDIVISIONS

I do further certify that prior to the making of this certificate, the said Ordinance was spread at length upon the permanent records of said Village, where it now appears and remains.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of said Village this 27 day of JAN, 2015.

Village Clerk