



CITY of NOVI CITY COUNCIL

Agenda Item K
August 12, 2019

SUBJECT: Approval of Ordinance No. 19-124.20, an ordinance to amend the City of Novi Code of Ordinances, Chapter 11, "Design and Construction Standards," Article III, "Watermains," Section 11-68, "Design Considerations," Subsection (F), "Fire Hydrants and Appurtenances," in order to amend standards relating to placement and spacing of fire hydrants. **SECOND READING.**

SUBMITTING DEPARTMENT:

CITY MANAGER APPROVAL:

BACKGROUND INFORMATION: This draft ordinance clarifies standards in the City's ordinance as to the location of fire hydrants. The City has encountered developments over the years where the placement of hydrants has been an issue. This language clarifies the authority of the fire department (through the fire chief) to address and resolve these issues. The language, for the most part, clarifies the current intention of the Design and Construction Standards and is intended to be consistent with the requirements of the International Fire Code.

RECOMMENDED ACTION: Approval of Ordinance No. 19-124.20, an ordinance to amend the City of Novi Code of Ordinances, Chapter 11, "Design and Construction Standards," Article III, "Watermains," Section 11-68, "Design Considerations," Subsection (F), "Fire Hydrants and Appurtenances," in order to amend standards relating to placement and spacing of fire hydrants. **SECOND READING.**

STATE OF MICHIGAN

COUNTY OF OAKLAND

CITY OF NOVI

ORDINANCE NO. 19-124.20

AN ORDINANCE TO AMEND THE CITY OF NOVI CODE OF ORDINANCES, CHAPTER 11, "DESIGN AND CONSTRUCTION STANDARDS," ARTICLE III, "WATER MAINS," SECTION 11-68, "DESIGN CONSIDERATIONS," SUBSECTION (F), "FIRE HYDRANTS AND APPURTENANCES," IN ORDER TO AMEND STANDARDS RELATING TO PLACEMENT AND SPACING OF FIRE HYDRANTS.

THE CITY OF NOVI ORDAINS:

PART I. that Chapter 11, "Design and Construction Standards," Article III, "Water Mains," Section 11-68, "Design Considerations," Subsection (f), "Fire hydrants and appurtenances," is hereby amended to read as follows:

11-68 Design Considerations

(a) thru (e) Unchanged

(f) *Fire hydrants and appurtenances*

(1) General.

a. Hydrants shall be located in the road right-of-way at least ten (10) feet, but not more than fifteen (15) feet, from the back of the curb or edge of pavement. Such connection shall be located so that immediate access can be made by the fire-fighters and fire apparatus. Obstructions such as fences, bushes, trees, walls or other similar objects shall not be permitted for new or existing installations.

b. In single-family residential areas, hydrants shall be placed no less than seven (7) feet, but no more than fifteen (15) feet, from the back of curb or the edge of pavement where there is no curb. Hydrants shall be placed approximately five hundred (500) feet apart as measured by an approved, unobstructed route accessible by fire apparatus. ~~It is recommended that~~ Where possible, a hydrant be located at every intersection on the same corner with the street sign.

c. Hydrants shall be spaced approximately three hundred (300) feet apart ~~on-line~~ as measured by an approved, unobstructed route accessible by fire apparatus in commercial, industrial, and multiple-residential areas. In cases where the buildings within developments are fully fire suppressed, ~~hydrants shall be such spacing may be increased to~~ no more than five hundred (500) feet apart. ~~The spacing of hydrants around commercial and/or industrial developments shall be considered as individual~~

~~cases where special circumstances exist upon consultation with the fire chief~~The fire chief (or designee) shall have the authority to alter or amend these spacing requirements to provide for greater or shorter distances upon a finding of unusual circumstances or exceptional practical difficulties in complying with such requirements; provided, however, that all other applicable Fire Code requirements are met.

The following requirements ~~additionally~~ apply as to the spacing of all hydrants.

1. ~~In general~~To the extent possible, no part of ~~a~~the exterior enclosure of a building shall be more than three hundred (300) feet from a fire hydrant as measured by the ~~unobstructed hose length~~ hose length along an approved, unobstructed route from the hydrant to the building.
 2. The fire chief ~~(or designee)~~ shall approve final locations of all hydrants.
 3. Fire hydrants located within parking areas shall be protected by a minimum six-inch curb, standard guard posts or other acceptable method. Guard post specification: four-inch steel pipe, eight (8) feet in length, installed four (4) feet below grade, pipe filled with concrete.
 4. The nozzle outlets shall be eighteen (18) inches above finish grade. In all cases, the visibility of the hydrant shall be considered. No parking shall be allowed within fifteen (15) feet of a hydrant.
 5. Spacing between hydrants and valve wells shall be sufficient to facilitate ditch grading.
 6. Additional hydrants may be required depending on the specific hazard or use, or conditions relating to the building or surrounding property, to protect the structure.
 7. A hydrant shall be installed at the end of every dead-end main. A one-inch corporation stop with ten (10) feet of copper or PVC service pipe attached shall be provided adjacent to the hydrant for the purpose of obtaining water samples when the nearest valve well is more than one (1) pipe length away.
 8. A six-inch gate valve with a three-piece cast-iron valve box (5 ¼-inch diameter screw shaft) shall be placed at each hydrant.
- d. The 4½-inch outlet shall face the roadway or other paved area subject to fire department approval.
- e. All hydrants shall be accessible by roadway capable of supporting fire apparatus and equipment weighing up to thirty-five (35) tons.
- f. Fire hydrant location is important when sprinklers and standpipe systems are installed and distance between the hydrant and the siamese will need approval of the

fire department. Siamese connection must be visible, readily accessible and properly identified.

g. Fire lanes shall be designated by the fire chief when it is deemed necessary and shall comply with [section 15-17](#).

h. If a new building is more than one hundred seventy-five (175) feet from a public fire hydrant, a fire hydrant, if required, shall be provided ten (10) to fifteen (15) feet off the right side of the drive entrance or as recommended by the fire chief (or designee).

PART II. Severability. Should any section, subdivision, clause, or phrase of this Ordinance be declared by the courts to be invalid, the validity of the Ordinance as a whole, or in part, shall not be affected other than the part invalidated.

PART III. Savings Clause. The amendment of the Novi Code of Ordinances set forth in this Ordinance does not affect or impair any act done, offense committed, or right accruing, accrued, or acquired or liability, penalty, forfeiture or punishment, pending or incurred prior to the amendment of the Novi Code of Ordinances set forth in this Ordinance.

PART IV. Repealer. All ordinances or parts of ordinances in conflict herewith are hereby repealed.

PART V. Effective Date. The provisions of this Ordinance are ordered to take effect following publication in the manner prescribed by the Charter of the City of Novi.

PART VI. Adoption. This ordinance is hereby declared to have been adopted by the Novi City Council in a meeting thereof duly held and called on the ___ day of _____, 2019, in order to be given publication in the manner prescribed by the Charter of the City of Novi.

Moved by _____ and supported by _____.

Robert J. Gatt, Mayor

Cortney Hanson, City Clerk

Certificate of Adoption

I hereby certify that the foregoing is a true and complete copy of the ordinance adopted at the regular meeting of the Novi City Council held on the ___ day of _____, 2019.

Cortney Hanson, City Clerk