

CITY OF MARGATE, FLORIDA

ORDINANCE NO. \_\_\_\_\_

AN ORDINANCE OF THE CITY OF MARGATE, FLORIDA, AMENDING CHAPTER 14 - FIRE HYDRANTS; DELETING SECTION 39-4.1 OF CHAPTER 39 - WATER AND SEWERS-DEPARTMENT OF ENVIRONMENTAL AND ENGINEERING SERVICES; PROVIDING FOR SEVERABILITY; PROVIDING FOR CODIFICATION; PROVIDING FOR AN EFFECTIVE DATE.

BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF MARGATE, FLORIDA:

**SECTION 1:** CHAPTER 14 - FIRE HYDRANTS, is hereby amended to read as follows<sup>1</sup>:

Section 14-1. - Established.

There is hereby established a comprehensive fire hydrant ordinance to be known as the "Fire Hydrant Ordinance" of the City of Margate.

Section 14-2. --~~Distance between hydrants~~ Definitions.

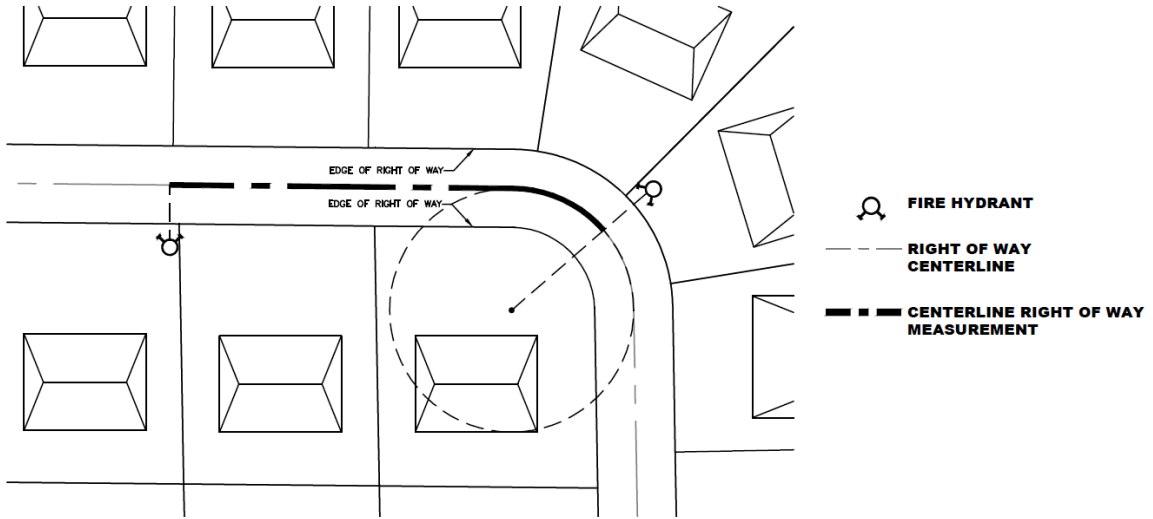
~~The maximum distance between fire hydrants shall be five hundred (500) feet in all single family residential zoning districts, or recreational and open space districts. The maximum distance between fire hydrants shall be three hundred (300) feet in all other zoning districts.~~

(a) Centerline right-of-way measurement shall mean the distance along a right-of-way centerline segment where each endpoint of the segment is determined by drawing a line from the point of interest (fire hydrant, property line, etc.) perpendicular to the right-of-way centerline. If the right-of-way centerline is an arc segment near the point of

<sup>1</sup> CODING: Words in ~~struck through~~ text are deletions from existing text; words in underscored text are additions to existing text, and **shaded** text reflects changes between First and Second Readings.

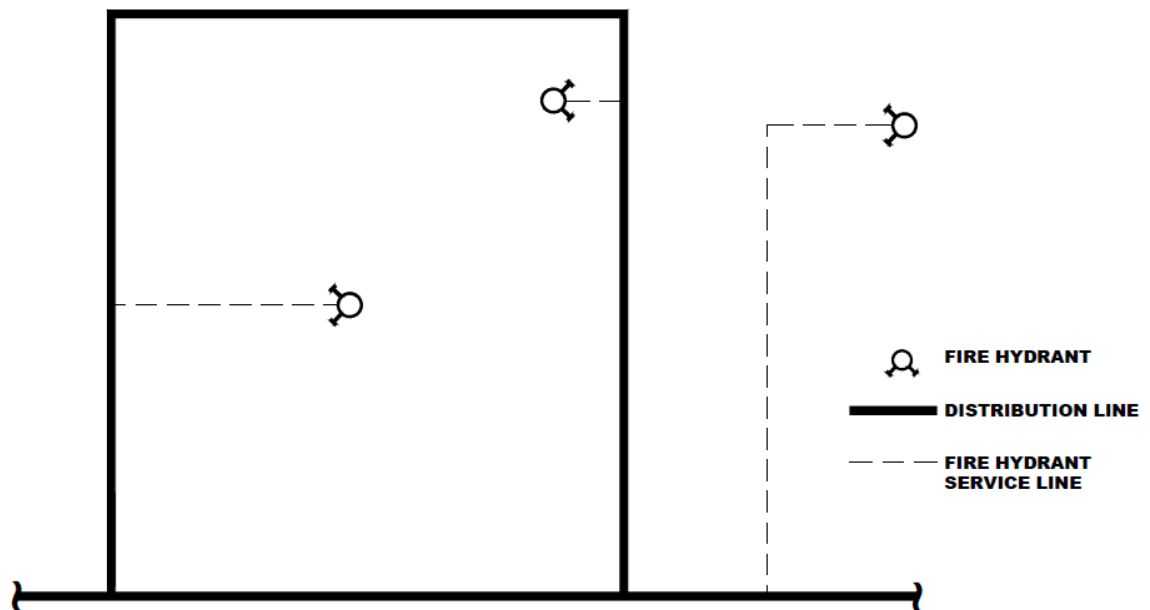
interest, draw a radius line from the point of interest to the center of the arc segment's circle; the endpoint of the segment is the intersection of the right-of-way centerline and radius line. This definition also applies to private roadways which may be located in tracts, easements, etc. instead of the public right-of-way. See Figure 1.

Figure 1:



(b) *Distribution line* shall mean a water main pipe in a looped water main system. Fire hydrant service lines are not considered distribution lines. See Figure 2.

Figure 2:



1 (c) Fire Department shall mean the Margate-Coconut Creek  
2 Fire Rescue Department.

3 (d) Fire department connection (FDC) shall mean an inlet  
4 for pressurizing a sprinkler system or providing water to  
5 high floors in a multi-floor building.

6 (e) Fire hydrant service line shall mean the pipe  
7 connecting a fire hydrant to a distribution line. See  
8 Figure 2.

9 (f) Service area shall mean the same geographic area  
10 defined in Chapter 39.

11 Section 14-3. - ~~Connection to F~~fire hydrant service lines.

12 All fire hydrants shall be directly connected to fire  
13 hydrant service lines having a minimum standard inside  
14 diameter of ~~not less than~~ six (6) inches.

15 Section 14-4. - Fire hydrant spacing~~Measurement procedure.~~

16 The maximum centerline right-of-way measurement between fire  
17 hydrants shall be five hundred (500) feet in all single-  
18 family residential zoning districts or recreational, open  
19 space, and conservation districts. The maximum centerline  
20 right-of-way measurement between fire hydrants shall be  
21 three hundred (300) feet in all other zoning districts. No  
22 single-family residentially zoned lot located on a cul-de-  
23 sac or dead end roadway shall be located more than two  
24 hundred fifty (250) feet from a fire hydrant by centerline  
25 right-of-way measurement. Fire hydrant spacing requirements  
26 in this section shall be applied independently to each side  
27 of the following roadways: State Road 7, any four-lane  
28 roadway, or any divided roadway.~~All measurements as called~~  
29 ~~for in section 14-2 shall be measured such that measurements~~  
30 ~~shall not include a measurement across State Road 7 or any~~  
31 ~~median strip or across any two-lane divided roadway in a~~  
32 ~~commercial or industrially zoned district. Further, no fire~~  
33 ~~hydrant shall be more than one hundred (100) feet from any~~  
34 ~~intersection without regard to the distance requirements~~  
35 ~~provided for herein. Each corner of an intersection shall be~~  
36 ~~considered separately, disregarding existing hydrants.~~

37 Section 14-5. - Requirements for buildings with standpipes,  
38 etc.

39 Any building other than a single-family residential building  
40 that has a standpipe or other sprinkler system must have a  
41 fire hydrant within fifty (50) feet of the ~~siamese~~-fire

department connection. ~~without regard to the distance requirements stated in section 14-2 and 14-4.~~

Section 14-6. ~~-- Minimum proximity of lots and structures to hydrants~~ Requirements for buildings without standpipes, etc.

~~No lot shall be located more than three hundred (300) feet by centerline right-of-way measurement from a fire hydrant. No portion of any structure shall be more than four hundred (400) feet from an approved fire hydrant by centerline right-of-way measurement.~~ In addition to the requirements of Section 14-5, the number and location of fire hydrants in the vicinity of any building other than a single-family residential building, with or without a standpipe or other sprinkler system, shall be approved by the Fire Department.

Section 14-7. - Size of distribution lines ~~mains~~.

(a) The minimum inside diameter ~~size~~ for all main distribution lines, excluding those established in subsection (b) of this section shall be ~~eight (8)~~ six (6) inches ~~in diameter~~.

(b) ~~The maximum~~ minimum inside diameter ~~size~~ for main distribution lines for heavy industrial areas, high-risk use areas and special hazard areas, as determined by the Fire Department, ~~of the city shall be ten (10)~~ eight (8) inches ~~in diameter~~.

(c) ~~All loops and fire hydrant service lines in single-family zoned areas shall be connected to no less than eight-inch main distribution lines.~~ There shall be no fire hydrant service line exceeding one hundred (100) feet in length without its being looped to the system unless the Department of Environmental and Engineering Services approves the longer fire hydrant service line length and hydraulic modeling shows the fire flow requirements in Section 14-8 would be met.

(d) All water main distribution lines whose construction has been approved prior to July 18, 1979, shall be accepted as approved, providing said lines meet the fire flow requirements in section 14-8.

Section 14-8. - Fire flow.

(a) Minimum rate. The minimum fire flow within the ~~city~~ service area shall be:

1 (1) Five hundred (500) gallons per minute in single-family  
2 residentially zoned districts.

3 (2) One thousand (1,000) gallons per minute in multifamily  
4 residentially zoned districts and all other zoned districts  
5 excluding those in Sections 14-8(a)(1) and 14-8(a)(3) ~~or~~  
6 ~~light commercial and retail zoned districts.~~

7 (3) One thousand five hundred (1,500) gallons per minute in  
8 ~~heavy commercial or~~ industrially zoned districts.  
9 Restaurants shall also have a fire flow of one thousand  
10 five hundred (1,500) gallons per minute.

11 (4) All high-risk uses as determined by the ~~Margate~~ Fire  
12 Department shall be required to have a fire flow of one  
13 thousand five hundred (1,500) gallons per minute.

14 (b) Residual pressure. The residual pressure in the  
15 vicinity of the fire flow ~~throughout the city~~ shall be  
16 twenty (20) pounds per square inch ~~in the vicinity of the~~  
17 ~~flow.~~

18 Section 14-9. - Painting and identification of hydrants.

19 (a) The barrel of all fire hydrants shall be painted yellow  
20 ~~(color similar to O.S.H.A. #974 paint).~~

21 The bonnet of all fire hydrants shall be painted based on  
22 their fire flow rated capacity ~~[at twenty (20) p.s.i. (1.4~~  
23 ~~bar) residual pressure or other designated value]~~ as  
24 follows:

25 (1) Light blue-Rated capacity of one thousand five hundred  
26 (1,500) gallons per minute gpm ~~(five thousand six hundred~~  
27 ~~eighty (5,680) L/min) or greater;~~

28 (2) Green-Rated capacity of one thousand (1,000) to one  
29 thousand four hundred ninety-nine (1,499) gallons per  
30 minute gpm ~~(three thousand seven hundred eighty-five~~  
31 ~~(3,785) to five thousand six hundred seventy-five (5,675)~~  
32 ~~L/min);~~

33 (3) Orange-Rated capacity of five hundred (500) to nine  
34 hundred ninety-nine (999) gallons per minute gpm ~~(one~~  
35 ~~thousand nine hundred (1,900) to three thousand seven~~  
36 ~~hundred eighty (3,780) L/min);~~

37 (4) Red-Rated capacity of less than five hundred (500)  
38 gallons per minute gpm ~~(one thousand nine hundred (1,900)~~  
39 ~~L/min).~~

(b) All fire hydrant locations shall be identified by use of three (3) raised pavement markers. Said markers shall be blue in color and installed twelve (12) inches apart, beginning at the center of the lane closest to the outside edge of the roadway or accessway and perpendicular to the hydrant.

~~(b) All fire hydrant locations shall be identified by use of three (3) raised pavement markers. Said markers shall be blue in color and installed twelve (12) inches apart, beginning at the center of the roadway or accessway and perpendicular to the hydrant.~~

Section 14-10. - ~~Streamers~~ Pumper and hose nozzles.

The centerline of a ~~All streamer~~ pumper and hose nozzle connections on a fire hydrant shall be between eighteen (18) inches and twenty-four (24) inches above final grade. ~~All fire hydrants shall meet requirements as set forth by the Margate Fire Department at the time of site plan approval. All valves and valve boxes shall be exposed and marked conspicuously.~~

Section 14-11. - Appeal.

Any person aggrieved by the determination of an area as a special hazard area under section 14-7(b) or as a high risk under section 14-8(a)(4) shall have the right to appeal said determination to the fire code appeals board pursuant to section 15-5 of this Code.

Section 14-12. - Violations.

(a) No fire hydrant, standpipe, or automatic sprinkler system connection shall be obscured from the adjacent roadway or accessway, or obstructed by any planting, wall, fence, utility box, berm, or other form of visual screening; and further, no obstruction shall be located to the front or within five (5) feet of the sides or rear of such equipment unless wall mounted. Hydrants shall be located within fifteen (15) feet of the paved roadway or accessway with no visual or physical obstruction as outlined in this paragraph.

(b) It shall be unlawful for any person to use or operate any fire hydrant or other valve on any fire system intended for use by the fire department for fire suppression purposes except for the purpose of extinguishing fires, operational testing, flow rate testing, or water main flushing, unless such person secures written prior approval

1 from the Ffire Ddepartment and ~~the public utilities~~  
2 Ddepartment of Environmental and Engineering Services.

3 (c) It shall be unlawful for any person to remove, tamper  
4 with or otherwise disturb any fire hydrant or fire-fighting  
5 appliance except for the purpose of extinguishing fires,  
6 fire-fighting training, or making necessary repairs without  
7 first obtaining written approval by the Ffire Ddepartment  
8 and Department of Environmental and Engineering Services.

9 Section 14-13. - Modification or variance of requirements;  
10 appeals.

11 (a) The fire chief or their ~~his~~-designee shall have the  
12 right to modify or vary the requirements of placement of  
13 fire hydrants under this section pursuant to ~~Ssections 14-~~  
14 ~~2, 14-4, and 14-6~~ where said requirements do not serve the  
15 best interests of fire safety. In making any variances or  
16 modifications of the above sections, the fire chief or  
17 their ~~his~~-designee shall take into consideration the  
18 following:

19 (1) The configuration of the street or roadway;

20 (2) The type of development involved;

21 (3) The age, nature and type of neighborhood or area;

22 (4) The design of the building or buildings involved; and

23 (5) Such other standards or requirements which have a  
24 bearing upon fire safety within the service area~~City of~~  
25 ~~Margate.~~

26 (b) Any person aggrieved by the findings of the fire chief  
27 or their ~~his~~-designee under this section may utilize the  
28 procedure as contained in section 14-11.

29 Section 14-14. - Fire hydrant requirements during  
30 construction.

31 The fire hydrant or hydrants as called for and required for  
32 any construction shall be installed within sixty (60) days  
33 from the date of issuance of the first building permit  
34 associated with said construction. The Fire Department and  
35 Department of Environmental and Engineering Services shall  
36 jointly have the authority in their discretion and in  
37 accordance with good fire protection practices and good  
38 engineering practices to extend the time requirements to  
39 provide additional time within which the fire hydrant or  
40 hydrants as called for and required shall be installed. The

1       Fire Department and Department of Environmental and  
2       Engineering Services, in exercising their discretion, shall  
3       be guided by the size of construction, amount and quality  
4       of flammable materials on the job during construction, and  
5       generally the protection of the particular construction  
6       site and surrounding areas with regard to fire protection  
7       and control. The fire chief or Director of Environmental  
8       and Engineering Services may, in each and their own  
9       separate discretion, cancel or revoke any permit for  
10      construction if the hydrant installation requirements  
11      herein are not met.  
12

13       **SECTION 2:**       CHAPTER 39 - WATER AND SEWERS-DEPARTMENT OF  
14      ENVIRONMENTAL AND ENGINEERING SERVICES, Section 39-4.1 -  
15      Enforcement of fire hydrant requirements., is hereby deleted  
16      in its entirety.  
17

18       **SECTION 3:**       All ordinances or parts of ordinances in  
19      conflict are repealed to the extent of such conflict.  
20

21       **SECTION 4:**       If any section, sentence, clause, or phrase  
22      of this Ordinance is held to be invalid or unconstitutional by  
23      a court of competent jurisdiction, then said holding shall in  
24      no way affect the validity of the remaining portions of this  
25      Ordinance.  
26

27       **SECTION 5:**       It is the intention of the City Commission  
28      that the provisions of this Ordinance shall become and be made  
29      a part of the City of Margate Code, and that the sections of  
30      this Ordinance may be renumbered or relettered and the word  
31      "ordinance" may be changed to "section", "article" or such  
32      other appropriate word or phrase in order to accomplish such  
33      intentions.  
34

35       **SECTION 6:**       This Ordinance shall become effective  
36      immediately upon adoption at its second reading.  
37

38      PASSED ON FIRST READING THIS \_\_\_\_\_ day of \_\_\_\_\_, 2017.

39      PASSED ON SECOND READING THIS \_\_\_\_\_ day of \_\_\_\_\_, 2017.

40      ATTEST:

41  
42  
43      \_\_\_\_\_  
44      JOSEPH KAVANAGH  
          CITY CLERK

\_\_\_\_\_  
MAYOR TOMMY RUZZANO



1  
2  
3  
4  
5  
6  
7  
8  
9

RECORD OF VOTE - 1ST READING RECORD OF VOTE - 2ND READING

Ruzzano	_____	Ruzzano	_____
Schwartz	_____	Schwartz	_____
Simone	_____	Simone	_____
Peerman	_____	Peerman	_____
Caggiano	_____	Caggiano	_____