

ORDINANCE NO. 3087

1
2 AN ORDINANCE relating to the installation of
3 fire hydrants and water mains in the
4 unincorporated areas of King County,
5 including commercial, industrial,
6 institutional, residential and multiple
7 dwelling buildings and areas of plats and
8 subdivisions; repealing Ordinance 468,
9 Sections 1 through 17 and KCC 17.08.010
10 through 17.08.170.

11 BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

12 SECTION 1. Ordinance No. 468, Sections 1 through 17 and
13 KCC 17.08.010 through 17.08.170 are hereby repealed.

14 SECTION 2. Definitions.

15 a. Dead end main is a main over fifty feet long and not
16 being fed from both ends at the time of installation.

17 b. Fire department shall mean the fire authority normally
18 responsible for the fire protection in the area.

19 c. Fire flow shall mean the flow of water required for fire
20 fighting at a specific building or within a specific area.

21 d. Fire marshal shall mean the King County Fire Marshal or
22 his appointee.

23 e. Flush-type hydrant is a hydrant installed entirely
24 below grade.

25 f. Hydrant. Hydrants shall have a minimum of: two, two and
26 one-half inch hose outlets, and one, four inch inner diameter
27 pumper port outlet. All outlet ports shall be approved by the
28 fire department. Special purpose adapters may be used with
29 approval of the fire department.

30 g. Private hydrant is a fire hydrant situated and
31 maintained to provide water for fire fighting purposes with
32 restrictions as to use. The location may be such that it is not
33 readily accessible for immediate use by the fire department for
other than certain private property.

h. Public hydrant is a fire hydrant so situated and
maintained as to provide water for fire fighting purposes without
restriction as to use for the purpose. The location is such that

1 it is accessible for immediate use of the fire department at all
2 times.

3 i. U.B.C. shall mean the Uniform Building Code as adopted
4 by the King County Council.

5 j. U.L. shall mean Underwriters' Laboratories, Inc.

6 k. Water authority shall mean the water department, water
7 district or other body legally supplying water in the area.

8 SECTION 3. Requirements for Buildings. All residential
9 buildings constructed in plats and all commercial buildings
10 constructed in the unincorporated areas of King County shall be
11 served by water mains and fire hydrants installed as required by
12 this ordinance. Such water mains and fire hydrants shall be
13 served by a water district, city or by other adequate means as
14 approved by the fire marshal. Agricultural buildings and
15 buildings not exceeding two thousand five hundred square feet and
16 not located in a water district are exempt from the provisions of
17 this ordinance.

18 SECTION 4. New Installations and Replacements. All fire
19 hydrants and water mains newly installed or replaced shall meet
20 the requirements of this ordinance.

21 SECTION 5. Installation Requirements.

22 a. Areas already platted shall install operational hydrants
23 and mains with water in accordance with this ordinance when
24 building construction commences.

25 b. Areas to be platted shall meet the requirements of this
26 ordinance.

27 c. New or replaced water mains shall be a minimum of eight
28 inches in diameter for dead ends where serving fire hydrants, and
29 six inches in diameter for circulating mains. Hydrant leads less
30 than fifty feet may be six inches in diameter. Such mains shall
31 have hydrants installed to conform with this ordinance.

32 d. Maximum spacing of public fire hydrants shall be seven
33 hundred feet in single family zoned areas and four hundred feet

1 in commercial, industrial, and apartment areas. Duplexes,
2 churches and schools shall be considered as commercial. Hydrants
3 shall be located at street intersections. When necessary to meet
4 required spacing, hydrants may be located between intersections.

5 e. Hydrants installed per this ordinance shall meet the
6 Seattle Standard Specifications and American Water Works
7 Association (A.W.W.A.) Standards.

8 f. Hydrants and mains shall be installed to meet sound
9 engineering practices. There shall be an auxiliary gate valve
10 installed, sufficient to permit the repair and replacement of the
11 hydrants without disruption of water service.

12 g. Hydrants shall stand plumb and be set to the finished
13 grade. The bottom of the lowest outlet of the hydrant shall be
14 no less than eighteen inches above the finished grade. There
15 shall be thirty-six inches of clear area about the hydrant for
16 operation of a hydrant wrench on the outlets and on the control
17 valve. The pumper port shall face the street. Where the street
18 cannot be clearly defined or recognized, the port shall face the
19 most likely route of approach and location of the fire truck
20 while pumping, as determined by the fire marshal.

21 h. Hydrants shall not be obstructed by any structure or
22 vegetation or have the visibility impaired for a distance of
23 fifty feet in the direction of vehicular approach to the hydrant.

24 i. Hydrants are to be accessible to fire department pumpers
25 over roads capable of supporting such fire apparatus.

26 j. Fire hydrants located in areas subject to regular,
27 private, commercial or industrial motor vehicle traffic shall be
28 protected against vehicle damage by curbs, space separation,
29 grade level changes, guard posts, or other means acceptable to
30 the fire marshal.

31 k. The installation of flush-type hydrants is prohibited
32 without approval of the fire marshal.

33 l. All hydrants shall be subject to testing and inspection

1 by the fire department.

2 m. A hydrant shall be located no further than three hundred
3 fifty feet from a newly constructed single family residence or
4 platted lot when located in a platted area; EXCEPT in areas
5 served with existing hydrants spaced on thousand feet on center,
6 and no more than one hundred fifty feet from a commercial
7 building or additions thereto.

8 n. The location of all water mains, fire hydrants, and
9 valves to be installed shall be properly and accurately marked on
10 identifiable plans or drawings, two copies of which shall be
11 furnished to the fire marshal. The water authority may be
12 required by the fire marshal to notify the fire department in
13 writing when the system is available for use.

14 SECTION 6. Commercial Buildings.

15 a. All commercial buildings and additions shall be provided
16 with water mains and fire hydrants capable of supplying the
17 required fire flow. Hydrants and mains shall be operational
18 when building construction commences.

19 b. Commercial buildings and additions so located that a
20 portion is more than two hundred feet from a street property line
21 as measured by vehicular travel shall have mains extended to
22 them, with fire hydrants, capable of supplying the required fire
23 flow.

24 c. Commercial buildings with a ground floor area of over
25 twenty thousand square feet or a group of buildings with a
26 required fire flow of more than three thousand gallons per
27 minute shall require fire hydrants properly located around the
28 buildings or group of buildings. Other buildings may have fire
29 hydrants located only on one side, but the required number of
30 hydrants shall be located within one hundred fifty feet of the
31 building.

32 d. The number of fire hydrants required shall be determined
33 on an average of three hundred feet, computed on an imaginary

1 perimeter that is parallel to and fifty feet from the building or
 2 group of buildings. The number of fire hydrants required shall
 3 be increased by one for multistory buildings.

4 e. The fire marshal shall determine the location of fire
 5 hydrants depending on utility, topography and building location.
 6 Hydrants shall be a minimum of fifty feet out from the building
 7 except when it is impractical due to topography or property
 8 lines.

9 SECTION 7. Fire Flow Criteria. Required fire flows
 10 determined by the fire marshal shall be based on criteria set
 11 forth in the Guide for Determination of Required Fire Flow 1974
 12 Edition published by the Insurance Services Office.

13 SECTION 8. Building Construction Classifications. The
 14 Insurance Service Guide, published by the Insurance Services
 15 Office, and the Uniform Building Code as adopted by the King
 16 County Council, which provide classifications of all buildings by
 17 types of construction, as shown below, shall be used in
 18 calculating fire flow.

<u>Insurance Services Guide</u>	<u>Uniform Building Code</u>
Fire Resistive	I - II
Ordinary	III
Heavy Timber	III HT
Noncombustible	IV
Wood Frame	V

25 SECTION 9. Building Permit Issuance and Occupation. The
 26 passage of this ordinance is necessary for the protection of
 27 health, safety, and welfare of the citizens of King County,
 28 Washington. No building permit shall be issued until plans,
 29 which are in compliance with this ordinance have been submitted
 30 and approved. No building shall be occupied until water is
 31 available.

32 SECTION 10. Enforcement. The provisions of this chapter
 33 and any rules or regulations promulgated thereunder shall be

1 enforced in accordance with the enforcement and penalty
2 provisions of Ordinance No. 2909.

3 SECTION 11. Severability. Should any section, subsection,
4 paragraph, sentence, clause or phrase of this ordinance be
5 declared unconstitutional or invalid for any reason, such
6 decision shall not affect the validity of the remaining portions
7 of this ordinance.

8 INTRODUCED AND READ for the first time this 8th day of
9 November, 1976.

10 PASSED this 22nd day of February, 1977.

11 KING COUNTY COUNCIL
12 KING COUNTY, WASHINGTON

13 [Signature]
14 Chairman

15 ATTEST:

16
17 [Signature]
18 Clerk of the Council

19 APPROVED this 23rd day of February, 1977.

20
21 [Signature]
22 King County Executive