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EXECUTIVE OFFICE

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ORDINANCE NO. 82- 110
ENACTING A NEW CHAPTER 16.36 WITHIN
TITLE 16 OF THE SNOHOMISH COUNTY CODE
SECTION 16.36

W.T. _____ J.C. _____
D.F. _____ S.W. _____
G.H. _____ D.J. _____

Section 1: The following is adopted and made a part of Title 16, Snohomish County Code:

Sections:

- 16.36.010 Applicability
- 16.36.020 Definitions
- 16.36.030 Hydrant Standards
- 16.36.040 Piping and Flow Standards
- 16.36.050 Procedures
- 16.36.060 Plan Submittal Review
- 16.36.070 Waiver and Modification
- 16.36.080 Obstruction Prohibited -
Declared Nuisance - Abatement
- 16.36.090 Administration
- 16.36.100 Water Purveyor Authority
- 16.36.110 Enforcement - Misdemeanor -
Civil Penalty

16.36.010. Applicability: The provisions of this chapter shall supercede Section 10.301 (c) and (d), UFC 1979 Edition as adopted by Snohomish County, and shall apply to all plats, short plats of three or more lots, planned residential developments, and all commercial occupancy buildings constructed or developed within unincorporated Snohomish County after the effective date of this Chapter, wherein the same shall be served by water mains and fire hydrants capable of delivering the required fire flow and installed as required by this chapter unless specifically exempted thereby, or unless waived or modified by the Fire Marshal, pursuant to Section 16.36.070 hereof. Decisions of the Fire Marshal are deemed to be made in the best interest, and with the concurrence of an affected Fire District, in the absence of any credible evidence to the contrary. A final determination of any dispute relating to an aforementioned Fire Marshal decision shall be made by the Codes Advisory and Appeals Board as per Section 16.04.080.

A. All water mains and fire hydrants required hereunder shall be served by a recognized water purveyor, or, in the absence of such, by alternate method(s) as approved by the Fire Marshal.

B. Exempted from the provisions of this ordinance are:

1. Agricultural buildings

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2. Buildings classified under the Uniform Building Code as:
 - a. B-1 under 2500 total square feet per building;
 - b. B-2 under 4000 total square feet per building;
 - c. B-3 under 6000 total square feet per building; or
 - d. B-4 under 4000 total square feet per building;

Provided any such building is surrounded and adjoined by public space, streets or yards not less than 60 feet in width, or have exterior walls constructed in accordance with the provisions of four-hour fire resistive area separation walls (as per UBC) and is surrounded and adjoined by public space, streets or yards not less than 20 feet in width.

3. Residential buildings classified under the Uniform Building Code as R-3 or M with a lot size of 20,000 square feet, or greater, whether platted or unplatted, provided there is no conflict with the requirements of the recognized water purveyor serving the building site.

16.36.020. Definitions: Unless the context clearly requires otherwise, terms and abbreviations used in this chapter have the following meanings:

- A. "A.W.W.A" means the American Water Works Association.
- B. "Building" means any structure used or intended for supporting or sheltering any use or occupancy.
- C. "Commercial Building" means classification of all occupancies other than R-3 or M as defined by the U.B.C.
- D. "Diameter" means nominal diameter.
- E. "Development" means all subdivisions, short subdivisions and large tract segregations under county authority; multiple residential structures; planned residential developments, planned community businesses and planned neighborhood shopping centers; industrial parks, campgrounds and mobile home parks; and industrial or commercial buildings requiring land use approvals, conditional use permits, or building permits (except building permits for single family residences and

duplexes) in unincorporated Snohomish County, and other similar projects requiring land use permits or approvals by Snohomish County.

F. "Developer" means the person, firm or corporation applying for or receiving a permit or approval for a development as defined above.

G. "Fire Flow" means the flow of water available for fighting a fire at a specific building or within a specific area as set forth in the Insurance Service Office Guide for the Determination of Required Fire Flow, 1974 Edition.

H. "Fire Marshal" means the Snohomish County Fire Marshal or his designee.

I. "Chief" means the Chief Officer, or his authorized representative, of the Fire District serving that Fire District jurisdiction.

J. "GPM" means gallons per minute.

K. "Hydrant branch" means the pipe leading from the water main to the hydrant.

L. "N.F.P.A." means the National Fire Protection Association.

M. "Private hydrant" means a fire hydrant which is situated and maintained so as to provide water for firefighting purposes, with restrictions as to its use and accessibility as to public use.

N. "Public hydrant" means a fire hydrant that is situated within a public or private easement or right of way and maintained so as to provide water for firefighting purposes without restrictions as to use or accessibility for fire suppression.

O. "UBC" means the Uniform Building Code as adopted and amended by Snohomish County.

P. "UFC" means the Uniform Fire Code as adopted and amended by Snohomish County.

Q. "Recognized Water Purveyor" means any entity legally bound to supply water to any incorporated or unincorporated area of Snohomish County and, in addition, shall have a water supply capable of delivering at least 500 gallons per minute for one hour

for fire protection above the maximum daily demand rate as defined by State Statute.

R. "Occupancy" means the purpose for which a building or part thereof is used, or intended to be used.

S. "Residential, R-3 dwelling" means any building which contains one or two dwelling units.

T. "Dwelling unit" means a single unit providing complete independent living facilities for one or more persons.

U. "NST" means National Standard Thread with seven and one-half threads per inch for 2 1/2" hose outlets and four threads per inch for 4 1/2" pumper port outlets.

16.36.030. Hydrant Standards: The following hydrant standards shall apply as set forth herein unless waived or modified pursuant to Section 16.36.070.

A. Type. Any new hydrant installations under this Chapter shall conform to AWWA specifications for fire hydrants for ordinary service and shall have not less than a 5 inch main valve opening, 2 hose outlets having diameters of 2 1/2" NST, and one pumper port outlet having a diameter of 4 1/2" NST.

B. Spacing. Within areas exclusively developed or being exclusively developed for R-3 or M occupancy, maximum distance from a fire hydrant to an access point of any lot shall be 300 feet along a public roadway; except that, in the case of a cul-de-sac or private roadway, maximum distance shall be no greater than 600 feet.

1. For all other occupancy types, the maximum distance from a fire hydrant to the access point of the lot shall be 150 feet along a public roadway.
2. When any portion of a commercial building to be protected is in excess of 150 feet from the water supply on a public street and when required by the Fire Marshal, there shall be provided on-site fire hydrants and mains capable of supplying the required fire flow. Water supply may consist of reservoirs, pressure tanks, elevator tanks, water mains or other fixed systems capable of supplying the required fire flow as approved by the Fire Marshal and

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the recognized water purveyor having jurisdiction over said project.

C. Location. Whenever possible, hydrants shall be located at street intersections; provided that, when such location results in spacing distances greater than allowed by this section, additional hydrants may be required between intersections; provided further that, when the required fire flow is greater than 2500 GPM, the number and location of hydrants shall be determined by the recognized water purveyor and approved by the Fire Marshal.

1. For purposes of this sub-part, the following shall apply:
 - (a) For commercial buildings exclusively:
 - (i) The minimum number of public and private hydrants required shall be determined by dividing the required fire flow for the building by 1500.
 - (ii) Hydrants shall be located no closer than 50 feet to any served building and at no greater distance than 300 feet from any portion thereof.
 - (iii) A hydrant shall be located not more than 150 feet from a sprinkler or standpipe connection.
 - (b) All hydrants shall be accessible to fire department apparatus by roadways meeting the requirements of section 10.207 of the UFC.
 - (c) When fire protection facilities are to be installed by the developer or permittee, pursuant to Section 10.301 UFC, such facilities shall be installed prior to any combustible construction being installed on-site. Water mains and fire hydrants shall be capable of delivering the required fire flow to the site and shall remain the responsibility of the developer until accepted by the recognized water purveyor. When alternate provisions for protection are provided pursuant to Section 16.36.070, the above requirements may be waived or modified.

(d) When locating hydrants, consideration shall be given to

- (i) hazardous operations and the practicality of sound fire service practices (fences, roadways, barriers to operation, etc.)
- (ii) the recommended location preferred by the purveyor
- (iii) the required 10 foot vehicle clear zone on each side of each hydrant.

D. Installation. Hydrants shall stand plumb and be set to the finished grade. The bottom of the lowest outlet of the hydrant shall be no less than twelve (12) inches above the grade. Whenever possible, there shall be a thirty-six (36) inch radius of clear area about the hydrant for the operation of a hydrant wrench on the outlets and the control valve. The pumper port shall face the street, or where the street cannot be clearly identified, shall face the most likely location of a fire truck while pumping, as determined by the Fire Marshal.

E. Maintenance. Fire hydrants shall be protected from damage. Internal maintenance of public fire hydrants shall be the responsibility of the recognized water purveyor. Private hydrants shall be protected and maintained in accordance with NFPA Pamphlet #24.

F. Location in County Right of Way. Placement of public water mains in a County right of way shall conform with requirements of the "Design Standards and Specifications, Snohomish County, Department of Public Works", as adopted July 2, 1980 by the Snohomish County Council.

16.36.040. Piping and Flow Standards: The following standards relating to water mains, hydrant branches, and fire flow shall apply, unless waived or modified pursuant to Section 16.36.070 by the Fire Marshal:

A. Hydrant Branches. Hydrant branches shall not have a domestic supply outlet and shall be a minimum of six (6) inches in diameter and shall be capable of delivering the required flow. Auxiliary valves shall be the same size as the branch in which they are installed.

B. Service Main. New or replaced water mains serving fire hydrants shall be a minimum of six (6) inches in diameter regardless of the size of any existing main to which it is connected; provided, that larger mains may be required if necessary to provide the fire flow required hereunder. When the fire flow requirement exceeds 2500 GPM, a looped main system may be required.

C. Flow Requirements. Service mains supplying hydrants shall be designed to provide not less than five hundred (500) GPM at twenty (20) pounds per square inch residual pressure over and above the computed maximum daily domestic consumption for the period of time specified in the Washington Survey and Rating Bureau's Grading Schedule, Table 4. In addition, service mains supplying hydrants shall provide the fire flow required to each building covered thereby at the number of GPM specified in the Insurance Service Office's Guide for Determination of Required Fire Flow except as to single family dwellings. The Fire Marshal may require data or design from a registered professional engineer, and construction in accordance therewith, in order to assure that the fire flow required will be achieved.

16.36.050. Procedure: Prior to the installation of any new hydrants or mains serving hydrants, the developer shall provide plans for review by the recognized water purveyor and Fire Marshal.

Upon completed installation, and acceptance by the recognized water purveyor, the Fire Marshal shall be provided with two copies of accurate and identifiable as-built drawings or plans showing the location of all mains, hydrant branches, valves and fire hydrants installed.

16.36.060. Plan Submittal Review: The Fire Marshal, prior to the issuance of a development permit for any new or substantially altered commercial building, plat development or residential complex, shall certify that the plans have been reviewed. If the plans are found to be in compliance with this Chapter, a Notice of Approval for Issuance of a Building Permit shall be forwarded to the Permit Coordinator. Such approval shall be based on the provisions of this Chapter being satisfied either:

- A. Prior to start of any construction; or
- B. Prior to start of any combustible construction; or
- C. Prior to the issuance of the Certificate of Occupancy for the building.

16.36.070. Waiver and Modification: The Fire Marshal may, subject to acceptance of recognized water purveyor, grant a waiver or modification to the standards contained in Sections 16.36.030 and .040

where strict compliance with such standards would create a substantial hardship on the applicant and where such a waiver or modification does not result in inadequate fire protection.

Waivers or modifications shall be in writing, state the reasons therefore, and be provided to the fire district with which jurisdiction lies over the project.

16.36.080. Obstruction Prohibited: Obstructing the view, by any means, of a fire hydrant for a distance of fifty (50) feet from any direction of vehicular approach is prohibited. Any violation of this Section is declared a public nuisance, subject to immediate abatement and application of the Civil Penalty provided for herein.

16.36.090. Administration: No plat shall receive final approval, nor shall a Certificate of Occupancy be issued as to any new or substantially altered building, other than a building of R-3 and M occupancy under the U.B.C. until the Fire Marshal has verified that the provisions of this chapter are satisfied.

16.36.100. Water Purveyor Authority: Nothing in this Chapter as adopted by Snohomish County or any rules and regulations as may be adopted by the Fire Marshal pursuant to this Chapter, shall be construed to prohibit water purveyors from imposing more stringent requirements for the construction of water mains and fire hydrants.

16.36.110. Misdemeanor Civil Penalty: Any person violating the provisions of this chapter shall be guilty of a misdemeanor and may be subject to the enforcement of Civil Penalties of Chapter 16.20 Snohomish County Code.

PASSED this 19 day of October, 1982.

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SNOHOMISH COUNTY COUNCIL
Snohomish County, Washington

Cliff Bailey
Chairperson

Approved as to Form:

[Signature]
Deputy Prosecuting Attorney

ATTEST:

[Signature]
Clerk of Council

- () APPROVED
- () VETOED
- () EMERGENCY

DATE: 10-26-82

Willis D. Tucker
County Executive

PUBLISHED 10-8-82 and 10-5-82