

0020.150.014(F)
JEH/crd
04/09/92

ORDINANCE NO. 1683

ORIGINAL

AN ORDINANCE OF THE CITY OF REDMOND, WASHINGTON, ADOPTING A REVISED WATER SYSTEM PLAN, DGA 90-0011, AND APPROVING AMENDMENTS TO CHAPTERS 20B.70, 20F.20, AND 20D.30 OF THE REDMOND MUNICIPAL CODE AND COMMUNITY DEVELOPMENT GUIDE.

WHEREAS, the City of Redmond Water System Plan is in need of updating and amendment in order to recognize current conditions and to effectively respond to the Growth Management Act, and

WHEREAS, the Planning Commission held a public hearing on the amendment of the City's Water System Plan and has recommended that the Council approve DGA 90-0011 as shown on the attached Exhibits A and B, and

WHEREAS, the City Council has determined that DGA 90-0011 meets the requirements of the City and that the same shall be adopted, NOW, THEREFORE,

THE CITY COUNCIL OF THE CITY OF REDMOND, WASHINGTON, HEREBY ORDAINS AS FOLLOWS:

Section 1. Profile. That portion of Section 20B.70.010 of the Redmond Municipal Code and Community Development Guide entitled "Water Service" is hereby amended to read as set forth on Exhibit A attached hereto and incorporated herein by this reference as if set forth in full.

Section 2. Community Goals. Section 20B.70.040 of the Redmond Municipal Code and Community Development Guide is hereby

amended, and new Sections 20B.70.041 and 20B.70.042 are hereby added to the Redmond Municipal Code and Community Development Guide to read as set forth on Exhibits A and B.

Section 3. Water Utility Element. Section 20B.70.100 of the Redmond Municipal Code and Community Development Guide is hereby repealed and Section 20B.70.090 is hereby amended to read as set forth on the attached Exhibit A.

Section 4. Development Guide Amendments. Sections 20F.20.240(15) of the Redmond Municipal Code and Community Development Guide is hereby amended to read as set forth on the attached Exhibit A.


Section 5. Public Development Program. Chapter 20D.30 of the Redmond Municipal Code is hereby repealed.

Section 6. Severability. If any section, sentence, clause or phrase of this ordinance should be held to be invalid or unconstitutional by a court of competent jurisdiction, such invalidity or unconstitutionality shall not affect the validity or constitutionality of any other section, sentence, clause or phrase of this ordinance.

Section 7. Effective Date. This ordinance, being an exercise of a power specifically delegated to the City legislative body, is not subject to referendum, and shall take effect five (5)

days after passage and publication of the ordinance or a summary thereof consisting of the title.


CITY OF REDMOND


MAYOR ROSEMARIE IVES

ATTEST/AUTHENTICATED:


CITY CLERK, DORIS SCHAIBLE

APPROVED AS TO FORM:
OFFICE OF THE CITY ATTORNEY:

By: 

FILED WITH THE CITY CLERK:	April 28, 1992
PASSED BY THE CITY COUNCIL:	May 5, 1992
SIGNED BY THE MAYOR:	May 5, 1992
PUBLISHED:	May 10, 1992
EFFECTIVE DATE:	May 15, 1992
ORDINANCE NO. <u>1683</u>	

EXHIBIT A
Proposed Amendments

Delete existing section "Water Service" contained within 20B.70.010 Profile (see Exhibit C for existing section) and replace with:

20B.70.010 Profile

WATER SERVICE

Washington Administrative Code (WAC) has established a mechanism whereby water utilities within the state can coordinate their water system planning and construction programs. This process, authorized under the 1977 Public Water System Coordination Act, is initiated by formation of a Critical Water Supply Service Area. King County included Redmond and the adjacent areas within the East King County Critical Water Supply Area and the East King County Coordinated Water System Plan was prepared.

Water service is provided in the Redmond Planning Area by a number of purveyors. Redmond provides water for the City Center, Education Hill, Bear Creek, Sammamish Valley, and South Hollywood Hill neighborhood areas and also sells water to the Union Hill Water Association. Rose Hill Water District supplies water to the Willows and Grass Lawn neighborhood areas, between Redmond and Kirkland, and sells water to the City for the Viewpoint and Overlake areas. The City of Bellevue sells water to the City for the Overlake and Viewpoint areas. The Woodinville Water District, Union Hill Water Association, Water District No. 122, and the Northeast Sammamish Water and Sewer District serve outlying areas.

The following is a summary of these purveyors, their service areas, sources, facilities and projected needs.

City of Redmond

The designated water service area for the City of Redmond is shown on figure 1. Redmond obtains its water from four wells south and east of downtown and from the Seattle supply system through Tolt Pipeline No. 2. Wells No. 1 and 2 are located in Anderson Park. Well No. 3 is located at Avondale Road and N.E. 95th Street. Well No. 5 is located on 180th Avenue N.E., opposite N.E. 76th Street. A fifth well located adjacent to City Hall was demolished in 1988 to make way for the City Campus facility. Redmond's four existing wells are capable of producing about 3.3 million gallons per day (mgd). A connection to Seattle's Tolt Pipeline No. 2 at N.E. 104th Street provides a peak hydraulic capacity of 8.8 mgd. Four water storage reservoirs with a total storage volume of 9.5 million gallons (MG) supply water to the City Center, Education Hill, Sammamish Valley, Bear Creek, and South Hollywood Hill neighborhood areas.

Redmond purchases water from Rose Hill Water District and from the City of Bellevue to serve the Overlake and Viewpoint areas. The City owns and operates a 1.2 mg storage facility in the Viewpoint area. A 6.0 mg storage facility located in the Overlake area is operated as a joint-use facility with the City of Bellevue. Redmond is allocated 2.5 mg storage from this facility.

Redmond provides water to a limited area northeast of the city limits. This neighborhood is served by a deadend 6-inch main that is located along Old Redmond Road. The main is fed from the City's booster pump station at the .05 mg storage tank of Avondale Road.

Daily consumption in the areas served directly by Redmond currently average approximately 2.5 mgd, with peaks during the summer of approximately 6.0 mgd.

Union Hill Water Association

Presently, the Union Hill Water Association's service area is established through service area agreements adopted by King County as part of the East King County Coordinated Water System Plan (CWSP). The present service area of the Association extends only where water lines now exist. Future customers wishing to obtain water must join the Association and help finance the extension of water mains.

The primary source of supply for Union Hill Water Association is a well. The City of Redmond sells water to the Union Hill Water Association during summer months. The association uses water mains in 196th and 208th Avenues N.E. and Union Hill Road to deliver water to the residential areas on Union Hill.

King County Water District No. 122

The District provides water to an area west of Ames Lake and south of Union Hill Road. The service area consists of a 150-lot subdivision (Cascade View Tracts). Water is supplied by one well and a 60,000 gallon storage tank. The water system is designed to accommodate the full development of Cascade View Tracts. Should adjacent areas be developed and request water from District 122, those developments would be required to annex to the district and to finance the necessary water district improvements.

Northeast Sammamish Sewer and Water District

Located on the plateau east of Lake Sammamish, the Northeast Sammamish Sewer and Water District serves an area which is experiencing continued development. Water sources consist of several wells.

Woodinville Water District

The Woodinville Water District serves the Kingsgate-Cottage Lake-Woodinville area and extends to the Snohomish County line on the north and is also authorized to build sewers. This district obtains water directly from Seattle's Tolt Pipeline No. 1 and the Tolt Eastside Supply Line. Redmond and the District signed an interlocal agreement in 1989 that establishes the boundary between the two entities at N.E. 124th Street, extended east.

Rose Hill Water District

The Rose Hill Water District provides water service to areas within Redmond, Kirkland, Bellevue and a small portion of unincorporated King County. The district obtains water from Seattle's Tolt Eastside Supply Line along 132nd Avenue N.E. Portions of incorporated Redmond lying west of the Sammamish River are supplied with water purchased from and metered by the district, as are areas in the Viewpoint neighborhood and some industrial sites on Willows Road. The district also sells water to Redmond through metered interties at N.E. 85th Street and at Leary Way.

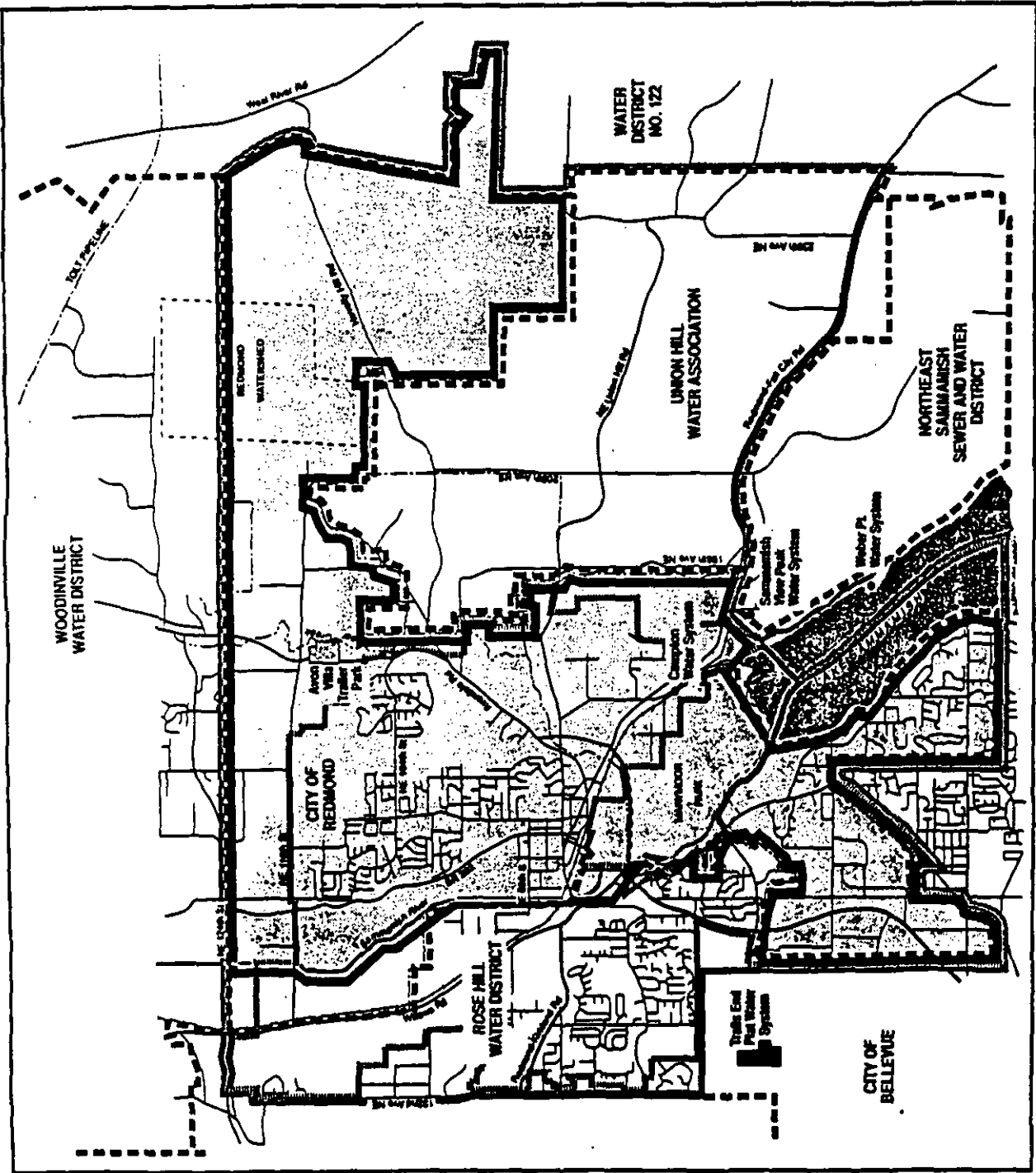
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- LEGEND**
- Potential Future Service Area Boundary
 - Redmond City Limits
 - Authorized Study Area
 - Existing Water Service Area Boundary



**City of Redmond
Water Service Area and
ADJACENT
WATER PURVEYORS**

Figure 1



Delete:

20B.70.040 COMMUNITY GOAL

Provide a sufficient City water supply and distribution system.

70.040(05) Policy - Manage water resources to assure a continued long-term high quality supply for homes, commerce, industry and recreation.

70.040(10) Policy - Assure an adequate water supply and distribution system for fire protection.

70.040(15) Policy - Maintain cooperative agreements with adjoining cities and water districts.

70.040(20) Policy - Encourage water conservation practices for new building construction.

Replace with three new community goals and supporting policies as follows:

20B.70.040 - Community Goal

Provide a quality source of supply to meet the water system demands of the City of Redmond Water Service Area.

70.040(05) Policy - Continue to operate the Redmond well system (Wells 1, 2, 3 & 5) so long as water quality is in accordance with state and federal regulations.

70.040(10) - Policy - Develop a Wellhead Protection Program including land use and zoning regulations to protect groundwater quality for the Redmond well system.

70.040(15) - Policy - Develop a Water Conservation Program to reduce customer average and peak consumptions. The Water Conservation Program shall include public education, technical assistance, and rate structures which encourage conservation.

70.040(20) - Policy - Continue to acquire additional source of supply from the regional (City of Seattle) water supply system including direct connections to Tolt #2 and indirect connections to TESSL.

70.040(25) - Policy - Continue to develop additional emergency interties with adjacent water purveyors and maintain cooperative agreements for sources of supply.

70.040(30) - Policy - Continue to implement a cross Connection Control Program to preserve system water quality in accordance with local, state, and federal regulations.

20B.70.041 - Community Goals

Provide water service to all properties within the Redmond city limits from the City's water distribution system. Coordinate the provision of water service to all properties in the Redmond Water Service Area from the City's water distribution system, and/or from adequately managed satellite water systems.

70.041(05) - Policy - Continue the process to assimilate those portions of Rose Hill Water District east of 132nd Avenue N.E. into the city's water distribution system.

70.041(10) - Policy - Do not approve any development in the city limits, (subdivisions or Building permits) which would necessitate the expansion of any existing non-city water system (except for areas within Rose Hill Water District until its assumption).

70.041(15) - Policy - Allow for the extension of the City water distribution system outside the city limits when consistent with the policies, rules and regulations embodied in the Redmond Municipal Code (Ordinance 1437 and amendments thereto).

70.041(20) - Policy - Develop policies, rules and regulations for a Satellite System Management Program within the Redmond Water Service Area. The Satellite System Management program shall provide that new water systems may be developed or existing water system may be expanded in the Redmond Water Service Area subject to the terms of agreements which prescribe for:

- 1) Management and ownership of the satellite system by a county/state approved satellite management agency other than the City.
- 2) The development of underground pipe systems in accordance with City standards and the long term integration of the satellite system with the City distribution system.
- 3) The transfer of ownership of the satellite system to the City at such time it is in the interest of the City to assume operation and integration into the City distribution system.

70.040(25) - Policy - Redmond shall be the water service provider for any area to which the City provides sewer service except for areas specifically addressed in an interagency agreement.

20B.70.042 - Community Goal

Provide storage, transmission and distribution facilities to meet the water system demands of the City of Redmond Water Service Area and comply with local, state and federal requirements.

70.042(05) - Policy - The Utility shall maintain design standards which incorporate the Water Utility Design Standards included in the East King County Coordinated Water System Plan and promote construction standards and requirements which facilitate ease of long term operation and maintenance. These standards shall also:

- 1) Define construction drawing format and content.
- 2) Define water main design requirements (size criteria, locations, meters, etc...)
- 3) Define special appurtenances.
- 4) Define easement requirements.
- 5) Define other requirements.

70.042(10) - Policy - Water transmission and distribution mains shall be designed to supply maximum instantaneous demands together with projected fire flows.

70.042(15) - Policy - New developments shall construct water system improvements necessary to serve the development and to provide a reliable, integrated distribution system. These improvements may include:

- 1) Construct mains in all public and private streets within and adjacent to the development.
- 2) Construct mains through the development to adjacent properties to allow the greatest ability for the water system to be gridded and to allow adjacent properties the ability to connect to and extend the water system.
- 3) Construct off-site mains as needed to connect to the existing system and to provide water system demands and fire flows.
- 4) Construct pressure reducing valves and similar appurtenances to provide pressure zone separation in the distribution system.
- 5) Construct pump stations needed to serve the development if in a special pressure zone (only permanent pump stations indicated in the Water System Plan will be allowed).
- 6) Construct improvements to existing facilities or replacement facilities to provide water system demands and fire flows for the new development such that existing customer service is not reduced below acceptable service criteria.

70.042(20) - Policy - Encourage the use of reimbursement agreements when consistent with the policies, rules and regulations embodied in the Redmond Municipal Code.

70.042(25) - Policy - Develop policies, rules and regulations when contributions by the City would be made for various developer constructed facilities such as oversized mains and general benefit facilities.

70.042(30) - Policy - Water utility facilities should be located, designed and operated so that impacts to neighborhoods are adequately mitigated.

70.042(35) - Policy - Water facilities should be designed, located and constructed to minimize significant adverse environmental impacts and to protect environmentally sensitive areas.

70.042(40) - Policy - Water facilities plans shall be developed to provide facilities appropriate to the goals, policies and land uses identified within the Redmond Community Development Guide.

Delete existing Section:

20B.70.090 WATER FACILITIES PLAN

The Water Facilities Plan, like the sewer plan, is a composite of several water service agencies plans. It includes existing and proposed water facilities for the City of Redmond, the Union Hill Water Association, the Sahalee Water Company and King County Water Districts 81, 82 and 104. These agencies have authority to plan, construct, maintain and operate water systems within their respective service areas. The Plan calls for construction of new mains to serve future development north and east of Redmond; completion of several loop systems to increase the reliability and efficiency of the systems; several new water storage reservoirs; and several adjacent system interties. These interties between

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water systems will provide for water supply during such emergencies as fire or drought, by transferring water from systems with an adequate or excess supply to systems which are in need of additional water.

Except for the City of Redmond, the individual water agency plans shown in this composite are subject to review and approval by King County. No new facilities or annexations may occur until these plans have been approved by the County as being consistent with the County-wide Utilities Master Plan.

The Redmond Area Water Facilities Plan indicates the proposed water facilities extensions and improvements through the year 1985.

The map entitled, "Water Facilities Plan" is incorporated as a part of this Section.

Delete existing Section:

20B.70.100 SOUTHEAST REDMOND WATER SYSTEM

The Southeast Redmond Water System Plan prepared by David Evans and Associates, Inc. dated November 8, 1988, identifies proposed water system improvements including a major booster pump station, a storage tank, and transmission-distribution mains for an area of the City generally enclosed by Union Hill Road on the north, 196th Avenue on the east, Redmond-Fall City Road on the south, and Avondale Road on the west. The City of Redmond 300 Zone Booster Pump Station Preliminary Design Report prepared by RH2 Engineering dated April 19, 1989, identifies additional alternatives and develops in more detail some of the specific facilities recommended in the Water System Plan. The recommended improvements within these two reports are hereby incorporated into the City's Water Facilities Plan.

Add new Section:

20B.70.090 - WATER UTILITY ELEMENT

70.090(05) - General

This water utility element is a composite of several water purveyor plans including the Redmond Municipal System and the Rose Hill Water District, which operate within the existing Redmond city limits and including Union Hill Water Association, Woodinville Water District, Northeast Sammamish Sewer, and Water District and City of Bellevue, which operate adjacent to the City. This element implements the goals and policies preceding this section. The Water Utility Element includes:

- A) The applicable profile and policies in Section 20B.80.010, .040, .041, and .042 of this Development Guide.
- B) Various studies and water system planning documents. The process for adopting and amending these studies is identified in Section 70.090(15).

70.090(10) - City of Redmond Water System Plan

The City of Redmond Water system Plan prepared by CH2M Hill dated December 1990 is adopted as a general water system planning document identifying service areas, needs and recommended improvements through the year 2000. This water system plan is incorporated by reference. The process for amending or updating this plan shall be described in Section 70.090(15).

70.090(15) - Water System Planning Document Procedures

- a) The general water system plan for the City of Redmond shall be processed as a development guide amendment.
- b) Water system planning documents which amend the general plan by expansion to the Redmond designated water service area shall be processed as a development guide amendment.
- c) Water system planning documents which update the general plan proposing new storage tanks, wells or pump stations shall be approved by the City Council.
- d) Water system planning documents which update the general plan identifying additional detail to previously identified transmission/distribution facilities and proposed detail of unidentified distribution facilities shall be administratively approved by the Technical Committee.
- e) Water system planning documents of water/sewer districts operating within the corporate limits shall be approved by the City Council as provided by state statutes.

Amend Section 20.240(15) Exemptions:

Existing Section:

20F.20.240 DEVELOPMENT GUIDE AMENDMENTS

20.240(05) Purpose - The purpose of this section is to provide the procedures and requirements for amending the Development Guide. The term "Development Guide Amendment" means a revision, addition or deletion to the Redmond Community Development Guide except as exempted in Section 20C.20.240(15).

20.240(10) Scope - All Development Guide Amendments, including amendments and additions to the text, maps and charts of the Redmond Community Development Guide shall follow the process set up in Section 20F.20.030 titled "Development Permit Procedures and Responsible Authority."

20.240(12) Amendment Criteria - All amendments to the Development Guide processed under this section shall be in conformance with title 20B.00.000 "Goals, Policies and Plans" including the locational criteria specified in Section 20B.90.030 where applicable.

20.240(15) Exemptions - Amendments to the Zoning Map shall follow the procedures of Section 20F.20.250, "Zoning Map Amendments." Changes in the organization, format, appearance, profiles, narrative, illustrations, examples, or other non-material changes to the Development Guide may be made by the Department of Planning and Community Development and are exempt from this section.

20.240(20) Approval by Ordinance - All amendments shall be by ordinance.

Amend paragraph 20.240(15) as follows:

20.240(15) Exemptions

- a) Amendments to the Zoning Map shall follow the procedures of Section 20F.20.250 "Zoning Map Amendments".
- b) Amendments to the water utilities element shall follow those procedures described in Section 20B.70.090(15).
- c) Changes in the organization, format, appearance, profiles, narrative, illustrations, examples or other non-material changes to the Development Guide may be made by the Department of Planning and Community Development and are exempt from this Section.

Delete existing section:

20D.30.010 PURPOSE

The purpose of this chapter is to establish the City's Water system Capital Improvements Program. This program is intended as a guide for the general location and phasing of water system improvements.

20D.30.020 SCOPE

This chapter covers the water system improvements proposed by the City. Nothing in this chapter shall prohibit the Public Works Department from making minor modifications to this plan such as changing pipe size and alignment or phasing of construction of the improvements.

20D.30.020 AUTHORITY

The Director of Public Works shall have the authority as a function of private or public development to require installation of or financial contribution towards construction of the improvements proposed in this chapter.

20D.30.040 CAPITAL IMPROVEMENTS PROGRAM

IMMEDIATE CONSTRUCTION

1983

Distribution Pipelines

Zone 350

<u>On</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>Diameter</u>
Redmond-Woodinville Rd.	N.E. 98th St.	300' S. of N.E. 113th St.	5050	8 inch

Zone 470

<u>On</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>Diameter</u>
N.E. 95th Street	166th Ave. N.E.	171st Ave. N.E.	1600	16 inch
166th Ave. N.E.	N.E. 95th St.	N.E. 104th St.	2700	16 inch
N.E. 104th St.	166th Ave. N.E.	300' W. of 177th Ave. N.E.	3250	16 inch
172nd Ave. n.E.	350' S. of N.E. 104th St.	N.E. 104th St.	350	16 inch

Zone 512

<u>On</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>Diameter</u>
N.E. 24th St.	Service Area Boundary	West 550 feet	550	12 inch
N.E. 24th St.	Master Meter & Vault	West 550 feet	—	—
N.E. 20th Place	Service Area Boundary	West 700 feet	700	6 inch

Corrosion Control & Fluoride Modifications

Telemetry

1984 - 1985

Storage

3.0 Million Gallon Reservoir zone 470
@ N.E. 104th Street & 171st Avenue N.E. extended

1986 - 1988

Distribution Pipeline

Zone 238

<u>On</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>Diameter</u>
Avondale Way N.E.	N.E. 79th St.	Redmond Way	700	12 inch
168th Ave. N.E.	N.E. 79th St.	N.E. 80th St.	350	8 inch
N.E. 80th St.	164th Ave. N.E.	169th Ave. N.E.	1600	8 inch

165th Ave. N.E.	N.E. 80th St.	N.E. 83rd St.	700	12 inch
Redmond-Fall City Rd.	180th Ave. N.E.	700' E. of 170th PI NE	3250	16 inch
N.E. 90th St.	Redmond-Woodinville Rd	West 1800 feet	1800	12 inch
Easement	Well #4	N.E. 90th St.	775	8 inch

Zone 350

<u>On</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>Diameter</u>
159th Ave. N.E.	N.E. 109th St.	N.E. 112th St.	145	8 inch

Zone 470

<u>On</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>Diameter</u>
N.E. 88th St.	172nd Ave. N.E.	171st Ave. N.E.	30	8 inch
171st Ave. N.E.	N.E. 88th St.	N.E. 95th St.	1800	8 inch
N.E. 92nd St.	167th Ave. N.E.	171st Ave. N.E.	1150	8 inch
N.E. 99th St.	166th Ave. N.E.	163rd Ave. N.E.	1050	8 inch
163rd Ave. N.E.	N.E. 99th St.	N.E. 100th St.	350	8 inch
N.E. 100th St.	163rd Ave. N.E.	161st Ave. N.E.	1000	8 inch
Easement	172nd Ave. N.E.	Booster St. #1	180	12 inch

Zone 562

<u>On</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>Diameter</u>
N.E. 106th St.	170th St. N.E.	N.E. 107th St.	650	8 inch

Storage

1 Million Gallon Reservoir Zone 350
 @ 180th Avenue extended & N.E. 98th Street extended

FUTURE CONSTRUCTION

Zone 238

<u>On</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>Diameter</u>
N.E. 85th St.	164th Ave. N.E.	166th Ave. N.E.	500	8 inch
176th Ave. N.E.	N.E. 67th St.	N.E. 70th St.	550	12 inch
N.E. 70th St.	176th Ave. N.E.	Redmond-Fall City Rd.	850	12 inch
185th Ave. N.E.	N.E. 76th St.	N.E. Union Hill Rd.	1300	12 inch

Zone 238

<u>On</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>Diameter</u>
N.E. Union Hill Rd.	185th Ave. N.E.	178th Pl. N.E.	2350	14 inch
161st Ave. N.E.	N.E. 87th St.	N.E. 90th St.	850	12 inch

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Zone 470

<u>On</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>Diameter</u>
167th Ave. N.E.	N.E. 92nd St.	N.E. 95th St.	700	8 inch
162nd Ave. N.E.	350' S. of N.E. 116th St.	N.E. 116th St.	350	16 inch
N.E. 116th St.	162nd Ave. N.E.	172nd Ave. N.E.	3050	16 inch
172nd Ave. N.E. (ext.)	172nd Ave. N.E. (ext.)	N.E. 109th St. (ext.)	2350	12 inch
N.E. 109th St. (ext.)	N.E. 109th St. (ext.)	172nd Ave. N.E. (ext.)	2900	12 inch
N.E. 111th St. (ext.)	168th Pl. N.E.	172nd Ave. N.E. (ext.)	1750	8 inch
181st Ave. N.E.	N.E. 104th St.	N.E. 109th St.	1600	12 inch

EXHIBIT B

70.040(35) Policy - Develop a fee structure that includes impact rates that pay for necessary expansion of water sources for the City of Redmond.

EXHIBIT B page 1 of 1