

Land Use Application

App	lication Type: Select One							
	Administrative Modification	~	Conditional Us	se Permit	r	Site Plan Entitlement		Temporary
	Short Plat (1-9 Lots)		Subdivision (1	LO+ Lots)		Shoreline Exemption		Shoreline
Pro	cess? Select One Any la	nd us	e permit subje	ect to <u>resu</u>	bmitt	<u>al fees</u> is eligible for th	le <u>PRI</u>	EP process.
r	Formal 🔲 PREF	>						
Proj	ect Information							
Proj€	ect Name: <u>PSE Sammamish - Juanita</u>	Transm	ission Line Project	Acres	: 10.7	Zonii	ng: <u>B</u>	P/MP/UR
Parc	el Number(s): <u>0325059002 (see site p</u>	olan map	book for full route)	Site Addr	ess: <u>9</u>	221 Willows Road NE		
Project Description: Construct new 115 kV transmission line from Sammamish Substation to the city limits north of Sammamish Valley Park. To accommodate the new transmission line construction, improvements include: 29 new and 11 replacement poles, including 6 replacement and one new pole south of Sammamish Substation; improvements within the Sammamish Substation yard; and widening of the existing rail ballast east of Willows Road NE to create a construction and maintenance access road including replacement of 5 culverts under the access road (3 fish passage and 2 stormwater).								
Exist	ing Uses: Utility and vacant			Proposed	Uses	: Utility		
□ F Exist	Res. Comm. Office ing Dwelling Units (#): <u>N/A</u>		Лfg.	□ Res. Proposed] Dwel	☐ Comm. ☐ Office ling Units (#): <u>N/A</u>] Mfg.
Exist	ing Building (Sq. ft.): <u>N/A</u>			Proposed	Build	ing (sq. ft.): <u>N/A</u>		
Exist	Existing Lots (#): <u>N/A</u> Proposed Lots (#): <u>N/A</u>							
Demolition? I No Yes. If yes, size in sq. ft. <u>N/A</u> ; or number of dwelling units <u>N/A</u>								
Project Contact Information								
Owner Contact Information: Applicant/Project Manager Contact Information:								
Nam	Name: Puget Sound Energy (easement holder) Name: Kerry Kriner, Senior Land Planner, PSE							
Address: PO Box 97034, EST 4W, Bellevue WA 98009 Address: PO Box 97034, EST 4W, Bellevue WA 98009				009				
Phor	1e: <u>425-462-3821</u>			Phone: <u>425-462-3821</u>				
LIIId								

Authorized Signature: Kerry Kriner

Date: 2/14/2020

Submittal Instructions

To start your application please visit the <u>Plan Review</u> <u>Online</u> page. Once you have applied staff is notified of the request and will follow-up with you regarding the next steps within 24 to 48 hours. Supporting documentation and plans can be uploaded through the <u>Redmond ePermitting Service (REPS)</u>, once your application has been accepted by staff. Most applications are subject to a 30-day initial review period. If more information is required, subsequent 14day review periods will be opened.

Please contact the City of Redmond Planning Department at <u>PlannerOnCall@redmond.gov</u> for any questions or concerns. All submittals shall follow the <u>Submittal</u> <u>Standards</u>. Any submittal item waived at intake may be required by the Administrator at any point during the review process. The submittal checklist is not an exhaustive list of submittal requirements and may be modified in cases where additional information is required to complete the review of an application.

Additional Project Contacts

Billing Contact Information:

Name: Kerry Kriner, Puget Sound Energy

Address:	PO Box 97034, EST 4W, Bellevue WA 98009
Phone:	425-462-3821
Email: ke	rry.kriner@pse.com

Architect Contact Information:

Name: <u>N</u>	Ά
Address:	
Phone: _	
Email:	

Environmental Consultant Contact Information:

Name: Kim Anderson, AECOM	
Address: 1111 3rd Avenue , Suite 1600 Seattle WA 98101	
Phone: 206-403-4211	
Email: kimberly.anderson@aecom.com	

Civil Engineer Contact Information:

Name: Nico Vanderhorst, Otak						
Address	3:	11241 Willows Road NE, Suite 200 Redmond, WA 98052				
Phone:	4	25-739-4212				
Email: nico.vanderhorst@otak.com						

Other Contact Information:

Affiliation:	Ν/Α
Name:	
Address:	
Phone:	
Email:	

E-track Portal Intake Contact Information:

Name: Kerry Kriner, Puget Sound Energy					
Address	PO Box 97034, EST 4W, Bellevue WA 98009				
Phone:	425-462-3821				
Email: k	erry.kriner@pse.com				

Landscape Architect Contact Information:

Name: <u>N</u>	Α
Address:	
Phone: _	
Email:	

Arborist Contact Information:

Name: Stan Haralson, Puget Sound Energy					
Address: _1095 Lake Washington Blvd North, Renton WA 98056					
Phone: 253-234-6457	_				
Email: stan.haralson@pse.com					

Surveyor Contact Information:

Name: Adam LaPlant, David Evans and Associates					
Address	14432 SE Eastgate Way, Suite 400 Bellevue WA 98007				
Phone:	425-519-6547				
Email:	Aala@deainc.com				

Other Contact Information:

 Affiliation: N/A
 Name:
 Address:
 Phone:
 Email:

	Plan Set		
		Applicant	Staff Use Only
Submittal Item	Item Description	Included?	Waived/Received/Missing
Building Elevations	Building elevation information is located within	~	
	Article III of the Redmond Zoning Code.		
	Shall be prepared by a qualified professional	~	
Composite Dion	and include composite site plan, civil		
composite Plan	engineering plan, composite utility plan and a		
	composite landscape plan showing the entire		
	Sile.		
Cover Sheet	Cover Sheet Standards Handout		
	The cross section plan shall be consistent with		
Cross Section Plan	Site Plan Standards.		
	Drainage information is located within the	Image: Comparison of the second secon	
Drainage Plan	Stormwater Technical Notebook.		
	Fire code standards are located within the		
Fire Plan	Redmond Fire Code.		
Floor Plan	Plan for all floors at, above, and below grade.		
	Grading information is located within the	 	
Grading Plan	Stormwater Technical Notebook.		
	Irrigation information is located within Article II		
	of the Redmond Zoning Code. General		
Irrigation Plan	information regarding backflow prevention is		
U	located within the Cross Connection Control		
	Handout.		
	Landscaping information is located within		
	<u>Article I, Article II</u> , and <u>Article III</u> of the Redmond		
Landscape Plan	Zoning Code. Additional information regarding		
	planting types is located within the		
	Landscaping Handout		
	Lighting information is located within Article II		
Lighting Plan	of the Redmond Zoning Code. Additional		
	information is located within the City of		
	Redmond Illumination Design Manual		
Mitigation Dian	Critical area mitigation information is located	~	
Mitigation Plan	Code		
Dhasing Dian	Descing information is leasted within Article V		
Phasing Plan	of the Redmond Zoning Code		
Public Notice Site &	Public notice site and tree preservation plan		
Tree Preservation Plan	information is located within the Public Notice		
	Site & Tree Preservation Plan Handout.		
	Additional information on public notice sign		
	requirements is available in the Applications &		
	Forms section of www.Redmond.gov.		
Poof Plan	Rooftop screening information is located		
	within <u>Article III</u> of the Redmond Zoning Code.		
Screening Plan	Screening information is located within Article		
	III of the Redmond Zoning Code.		
Sign Plan	Sign information is located within Article II of		
	the Redmond Zoning Code		
	Site Plan standards are located within the <u>Site</u>	~	
Site Plan	Plan Standards Handout. A sample site plan is		
	available for reference.		

Transportation Plan	Transportation information is available within <u>Article II</u> of the Redmond Zoning Code. Additional information is located within <u>Appendix II</u> of the Redmond Zoning Code.	
Tree Preservation Plan	Tree Preservation information is located within <u>Article IV</u> of the Redmond Zoning Code. Additional information regarding tree protection is located within the <u>Tree Protection</u> <u>Handout</u> .	
Utility Plan	Utility information is located within the <u>Water &</u> <u>Wastewater System Extensions Design</u> <u>Requirements Manual</u> . Additional information is located within the <u>Standard Specifications</u> <u>and Details Addendum</u> .	

	Planning	Annelisent	
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Submittal Item	Item Description	Included?	Walved/Received/Missing
ALTA Survey	Shall be prepared by a qualified professional		
	in accordance with the standards specified by		
	the American Land Title Association (ALTA).		
Critical Areas Aquifer	Shall be prepared by a qualified professional		
Recharge Report	hydrogeologist, geologist, or engineer, licensed	—	
	in the State of Washington. Additional		
	information is located within <u>Appendix 1</u> of the		
	Redmond Zoning Code.		
Critical Areas Report	Shall be prepared by a qualified professional.	~	
	Additional information is located within		
Cultural Resources	Shall be prepared by a qualified professional		
Report	archaeologist in compliance with the definition		
Roport	located within the Revised Code of Washington		
	Section 27.53.030.		
Decision Criteria	Shall be in compliance with decision criteria	~	
Analysis & Response	located within <u>RZC 21.76.070</u> . Applicable to		
Applicant Memo	the following permits only: Alteration of		
	Geologic Hazard, Conditional Use, Master		
	Planned Development, Essential Public		
Extraordinary Notice	Only required for major land use actions		
	Additional information is located within	Ľ	
	Appendix 6 of the Redmond Zoning Code.		
GHG Emissions	Shall be submitted for all applications. The		
Worksheet	worksheet is available in the Applications &		
	Forms section of www.Redmond.gov.		
Joint Aquatic	Only required for shoreline and shoreline		
Resources Permit	exemption applications. The form is available		
Application	www.Redmond.gov		
Land Use Application	Shall be completed in full It is the applicant's		
Lana 600 Application	responsibility to confirm that all submittal		
	items are included and check the		
	corresponding check box for each submittal		
	item prior to submittal. The application is		
	available in the <u>Applications & Forms</u> section		
Momorondum of	Of <u>www.Redmond.gov</u> .		
Memorandum of	Selected the PPEP Process. The memorandum		
Understanding	is available in the Applications & Forms section		
	of www.Redmond.gov.		
Neighborhood Meeting	Only required for applications that require a		
Notice	neighborhood meeting per <u>RZC 21.76.060.C</u> .		
	The template is available in the Applications &		
	Forms section of www.Redmond.gov.		
Noise Analysis	Shall be prepared by a qualified professional		
	located in Redmond Municipal Code 6.36		
Photographs	Shall be submitted for all applications The		
Thotographs	photographs shall be of current site conditions	Ľ	
	and surrounding properties.		

		_
Previously Approved	Only required for applications that have	
Plan Sel	receiveu a previous approvai.	
Previously Approved	Only required for applications that have	
Staff Report or Notice	received a previous approval	
of Decision		
Project Narrative	Shall be submitted for all applications.	
SEPA Application Form	Shall be submitted for all applications. The	
	form is available in the Applications & Forms	
	section of www. Redmond dov	
	Section of www.iteumonu.gov.	
SEPA Checklist	Shall be submitted for all applications. The	
	checklist is available in the Applications $\&$	
	Forms section of www.Redmond.gov.	
Title Report or Plat	Shall be dated within 90 days of the submittal	
Certificate	date.	_
Tree Health	Shall be prepared by a certified arborist in	<u>।</u>
Assessment Report	compliance with the definition located within	
/ leeeeenione report	Article VII of the Dedreard Zening Oede	
	Article vil of the Reamona Zoning Code.	
Waiver Request Letter	Shall be submitted for any application that	
	does not include all submittal requirements.	
	Waiver request letters shall include a	
	justification for the omission of all submittal	
	items not included in a submittal.	

Design Review Board

Design Review Board (DRB) meetings are held at 7:00 P.M. on the 1st and 3rd Thursday of each month. The purpose of the meetings is to review the designs of any land use projects subject to DRB approval under <u>RZC 21.76.020.E</u>. The following DRB materials must be submitted at least 14 calendar days prior to the meeting in **one PDF document titled "Design Review Board Materials."** The applicant should anticipate three or more total Design Review Board meetings prior to any recommendation by the board.

		Applicant	Staff Use Only
Submittal Item	Item Description	Included?	Waived/Received/Missing
Completed Design	Shall be submitted for all applications subject		
Standards Checklist	to Design Review Board approval. The		
	checklist is available in the Applications &		
	Forms section of www.Redmond.gov.		
Design Concept	Shall be submitted for all applications subject		
Narrative	to Design Review Board approval. The		
	narrative shall be based on a well-defined		
	concept which responds to the community		
	goals and policies identified within <u>RZC 21.58</u>		
	through 21.62.		
Photographs	Shall be submitted for all applications subject		
	to Design Review Board approval. The		
	photographs shall be of current site conditions		
Dian Cat	and surrounding properties.		
Plan Set	to Design Deview Poord opproval Shall		
	include: (1) Ruilding Elevations (Eull Color		
	Existing and Proposed) (2) Cover Sheet (3)		
	Site Plan (4 Floor Plan (5) Landscape Plan		
	(Within 100 feet of the proposed structure) (6)		
	Lightning Plan (Including cut sheets and		
	photometrics) (7) Parking Plan, and (8) Roof		
	Plan.		
Renderings	Shall be submitted for all applications subject		
-	to Design Review Board approval. Shall		
	include: Color renderings of the proposed		
	building in perspective from public rights-of-		
	way, public trails, other public spaces, and		
	neighboring structures. Shall identify proposed		
	materials and colors on the color renderings.		
Special Design	Only required for applications subject to		
Requirements Memo	special design requirements. Shall outline		
	applicable special design requirements for		
	detail how the proposal mosts these additional		
	requirements		
Material and Color	Shall be prepared for all applications subject		
Board	to Design Review Board approval May be		
Board	brought to the Design Review Board meeting		
	by the applicant rather than submitted with the		
	Land Use Application. Shall be at least		
	24"x36" in size and include: (1) Exterior Finish		
	Color Chips (minimum of 4"x4"), (2)		
	Doors/Frames, (3) Roofing, (4) Rooftop		
	Mechanical Equipment Screening Materials,		
	(4) Trim, Flashing, etc., (5) Windows/Frames.		

Transportation							
		Applicant	Staff Use Only				
Submittal Item	Item Description	Included?	Waived/Received/Missing				
Transportation	This form must be filled out						
Certificate of							
Concurrency		_					
I ransportation							
Traffic Study Phase 1	Submit Phase One Traffic Study to show the						
Traffic Study Phase 1	Submit Phase One Traffic Study to show the trip generation for the proposed project. If the project will generate 20 or more net PM peak hour new trips, then the Phase I traffic study will also include trip distribution and identify intersections that are affected by 20 or more PM peak hour new trips. Upon approval of the Phase I traffic study, a decision will be made if a Phase Two Traffic Study is required and if the project is subject to transportation concurrency review in accordance with section 21.52 of the Redmond zoning Code. If applicable, the applicant shall submit a request for a certificate of concurrency. (Requirements for Traffic Study). Please note that additional traffic related analyses such as but not limited to Entering/Stopping Sight In Phase One of the traffic analysis process, the traffic consultant is required to submit a technical memorandum summarizing the forecasted trip generation for the proposed project, along with justification for the methodology used in the forecast. This memorandum is then reviewed by the City and possibly by other affected public agencies. Upon approval of the trip generation estimate a determination will be made if the project is subject to transportation concurrency review in accordance with section 21.52 of the Redmond Zoning Code. If applicable, the						
	applicant shall submit a request for a certificate of concurrency. The project applicant will be required to pay for the traffic						
	modeling that is part of the concurrency evaluation.						
Traffic Study Phase 2	If a Phase Two Traffic Study is required, submit the scope for review. The scoping will be primary based on the outline presented in Part 4 -Requirement for Traffic Study. Depending on the size and character of the proposed project, a formal scoping meeting with traffic consultants may be necessary to determine certain elements of the outline may be added to or reduced from to the scope. Once the scope of the traffic study is approved, traffic						

consultant will prepare and submit the Phase Two Traffic Study for review. (See Requirement for Traffic Study).

Phase Two of the transportation impact analysis process entails scoping of the analysis and preparation of the report by the transportation consultant. Once the traffic modeling is complete, the applicant's consultant should contact the City to set up a meeting to formally scope the transportation impact analysis. The analysis will be based primarily on the outline presented on the following pages. The specific list of intersections that will need to be reviewed in the transportation impact analysis will be developed from the trip assignment for the project. Depending upon the size and character of the proposed project, certain elements of this outline may be reduced in scope or eliminated. However, other items may also be added if special issues relating to transportation exist on the project.

Requirements for a Traffic Study

Information Provided by the City

Information which is part of the City of Redmond's traffic data base can be found on the City's web site at: https://www.redmond.gov/863/Traffic-Counts. Additional information required for the study will need to be acquired at the applicant's expense. The City will provide the following information if it is available:

-Current AWDT information (current shall mean within one year of the study date).

-Current PM peak hour counts (current shall mean within one year of the study date).

I. Introduction

Location of Project Site

- a. On local vicinity map.
- b. In relation to other major uses or landmarks.
- c. In relation to the adjacent street system.

Description of Proposed Project or Action

- a. Proposed land use and/or character of project.
- b. Size of project (square feet, number of units, number of employees, etc.)
- c. Number of parking spaces provided.
- d. Number and location of accesses to street system.
- e. Anticipated project phasing, if applicable.

Scope of Analysis/Organization of Report

- a. Specific issues analyzed.
- b. General layout of transportation report.
- c. Additional Information Required

II. Existing Conditions

Definition of Study Area for Analysis

a. All signalized intersections impacted by 20 or more project-generated trips in the PM peak hour (total one-way trips through the intersection).

- b. Intersection of site accesses with street system.
- c. Non-signalized intersections as directed by the City.

Physical Characteristics of Study Area Street System

a. Streets within study area.

i. Number of lanes (typical and at intersection).

ii. Street and shoulder widths.

iii. Posted speed limit.

iv. Approximate street grades.

v. Other geometric features.

b. Non-motorized & transit facilities.

i. Location of sidewalks and trails within the area.

- ii. Residential projects should identify walk routes to schools within 1-mile radius.
- iii. Location of bike lanes within the area.

iv. Location of transit facilities within the area.

c. Key intersections in study area.

i. Traffic Control (signals, signs, etc.).

ii. Turn restrictions.

iii. Lane alignment.

iv. Sight distance restrictions.

Operational Characteristics of Study Area Street System

a. Traffic Volumes.

i. Average weekday traffic volumes (AWDT) on streets.

ii. PM peak hour turning movement volumes at key intersections.

iii. Schematic of street system showing AWDT and PM turning movements.

b. Traffic Operations.

i. Level of service at all signalized intersections using Circular 212 Critical Volume Sum methodology. Summary table should include level of service ranking from A to F, and critical volume sum for intersection.

ii. Level of service at all non-signalized intersections using Highway Capacity Manual (Special Report 209). Summary table should include level of service ranking from A to F, and reserve capacity for each critical movement.

iii. Warrant analysis of non-signalized intersections as determined by the City.

iv. 85th percentile speed on streets.

Traffic Accident History within Study Area

a. Three-year accident summary at all key intersections. Include accident diagrams.

i. Intersection accident rates shall be stated in million entering vehicles (MEV) = (annual # of accidents X 106)/ (annual traffic entering)

 ii. Accident rates for street sections shall be stated in million vehicle miles travels (MVM) = (annual # of accidents X 106)/ (annual vehicle-miles of traveled)

iii. Vehicle-miles = AADT x 365 days/year x section length

b. Identification of problem areas and accident trends.

Parking Demand/Supply

a. Existing location and supply.

b. Existing use characteristics (demand, turnover, etc.).

c. Additional Information Required

III. Forecasted Conditions

Forecast of Non-Project Traffic Volumes

a. Forecast year.

i. Year of project build out.

b. General traffic volume growth.

i. Annual percentage growth in traffic volumes (typically 2%).

c. Specific traffic volume growth.

i. Trip generation from other planned developments.

ii. Diversion of traffic due to planned street improvements.

Forecast of Project Generated Traffic Volumes

a. Trip Generation

i. ITE Trip Generation (7th Edition) or City approved methodology.

ii. Breakdown of new, pass-by and diverted trips.

b. Mode Split

i. Proportion of trips via SOV, HOV, walking, bicycle, or other modes.

c. Trip Assignment

i. Assignment of project trips to specific travel routes as per the short-term trip assignment provided by the City of Redmond traffic model (if used for concurrency testing).ii. Show all streets and intersections impacted by 20 or more trips in the PM Peak Hour. Show other intersections as directed by the City.

Analysis of Forecast Year Traffic Operations With and Without Project

a. Level of Service

i. All signalized intersections using Circular 212 Critical Volume Sum methodology. Summary table should include level of service ranking from A to F, and critical volume sum for intersection. ii. All non-signalized intersections using Highway Capacity Manual (Special Report 209). Summary table should include level of service ranking from A to F, and reserve capacity for each critical movement.

iii. All project accesses to street system using applicable methodology outlined above.

iv. Schematic of street system showing AWDT and PM turning movements.

b. Project Specific Mitigation: Use the following guidelines in determining whether mitigation is required at specific intersections:

i. If the intersection will operate at LOS-D or better in the forecasted year with the proposed project, no mitigation is required.

ii. If the intersection will operate at LOS-E/F in the forecasted year with the proposed project, and the addition of the project traffic decreases the LOS, mitigation may be required to alleviate project impacts. For signalized intersections, the consultant should then use the HCM 209 methodology to assess potential physical improvements to improve the operation of the impacted intersection. The City will review these potential improvements and may require their construction to mitigate project impacts.

Safety Condition within Study Area

a. Analysis of safety problems identified in Existing Conditions section.

b. Residential projects should coordinate with the City and Lake Washington School District to identify gaps or hazards for school walk routes.

c. Options available to reduce or eliminate safety problems.

d. Analysis of entering and stopping sight distance at project accesses and along street frontage(s).

Note: The design speed is used in any analysis shall be 10 mph over the posted speed limit unless otherwise approved by the City.

Parking Demand/Supply

a. Proposed parking supply.

b. Analysis of expected parking demand.

i. ITE Parking Generation (2nd Edition) or City approved methodology.

c. Comparison of supply/demand to City Code Requirements.

d. Additional Information Required

IV. Summary of Analysis and Mitigation

Executive Summary of Transportation Impact Analysis Summary of Impacts and Project Specific Mitigation

Stormwater						
		Applicant	Staff Use Only			
Submittal Item	Item Description	Included?	Waived/Received/Missing			
Easement Documents	The documentation for any easements that will	~				
	be applicable to the project.					
Geotechnical Report	This report may be required depending upon	~				
	the scope of the project and characteristics of					
	the site. The measured infiltration rate, or the					
	recommendation from a Geotechnical					
	Engineer regarding full/limited inflitration of					
	the site shall be included in the Geolechnical					
	Engineering Division at 425 556 2876 to					
	verify if the report is required					
I ID Feasibility Analysis	Analysis for LID based on Annendix N of the					
and Site Plan	Redmond Stormwater Technical Notebook					
	should be completed as part of the initial					
	project design. The LID Feasibility study is					
	required at the kickoff intake.					
Stormwater Report	The Preliminary Stormwater Report must	٢				
	follow the format provided in the 2012					
	Department of Ecology Stormwater Manual for					
	Western Washington as amended in 2014					
	(2014 SWMMWW), Volume I, 3.1.7). Project					
	shall provide On-site Stormwater Management					
	BMP's to meet Minimum Requirement #5 and					
	demonstrate compliance with the LID					
	Performance Standard. See Requirements for					
	Preliminary Stormwater Report for further					
	oetall.					

Requirements for Preliminary Stormwater Report

Stormwater Technical Notebook which is based on the Stormwater Management Manual for Western Washington.

I. Report Components

a. Project overview

b. Describe the existing conditions.

c. Describe the proposed development.

d. State how the site currently drains.

e. Provide a brief description of the downstream conveyance system.

f. Provide the Basin Analysis map for a minimum quarter mile downstream of the site with the TDAs and Natural Discharge locations. Show the flow direction arrows.

g. Include exhibits of the existing and proposed pervious and impervious areas with the following:

i. North arrow.

ii. Scale (larger engineering scale may be used where appropriate).

iii. Title block.

iv. Property lines.

v. Existing impervious, Proposed impervious (PG15 & NPG15)

vi. Drainage area to SWM Facility.

vii. Off-site areas draining on-site.

viii. Tables showing hard surface and pervious area (SF & AC)

ix. Legend of symbols.

x. Road and stream names.

h. Drainage calculations:

i. Pre-developed conditions:

- Pre-developed land use (typically forested)
- Drainage calculation results.
- ii. Post-developed conditions:
- Pervious area.
- Hard surface area
- Drainage calculation results.
- Backwater Analysis.

i. Quantity control:

- i. Release rate(s) as identified in 2014 SWMMWW, Volume I, Chapter 2, Minimum Requirement #7.
- ii. Storage volume required.
- iii. Storage volume provided.
- iv. Quantity control facilities.
- j. Quality control:
 - i. Water quality volume required (6-month, 24-hour).
 - ii. Treatment volume provided.
 - iii. Quality control facilities.
- k. Minimum Requirement #5:
 - i. Compliance with either List #1or List #2 for all surfaces

Utilities				
	Applicant	Staff Use Only		
Item Description	Included?	Waived/Received/Missing		
Please contact your utilities reviewer for additional application specific submittal requirements.				
	Item Description Please contact your utilities reviewer for additional application specific submittal requirements.	Item Description Included? Please contact your utilities reviewer for additional application specific submittal requirements. □		

		Fire		
			Applicant	Staff Use Only
Submittal Item	Item Description		Included?	Waived/Received/Missing
City Approved Water Supply and Hydrant	See below			

City approved water supply and hydrants

i. Water System improvements shall be consistent with the City of Redmond Water Plan

ii. Residential areas shall be master planned to provide a minimum of 1500 gpm

iii. Most commercial areas shall be master planned to provide a minimum 3500 gpm iv. Hydrants must be capable of providing sufficient fire flow to meet the required flow of the project as calculated by the Fire Marshal.

v. Any one hydrant shall be capable of providing a minimum of 1500 gpm and any two or three hydrants (depending upon demand) flowing simultaneously shall be capable of providing the demand flow.

vi. A fire flow report may be required. This report may consist of:

-Results of a functional flow test performed by a fire protection consultant.

-The test shall record pitot gauge readings for all ports opened, flow calculations for each port flowed, static and residual pressure readings, location of the test (identify specific hydrants used and what each was used for), calculated flow at 20 psi residual, and a flow graph.

-A hydraulically modeled fire flow estimate from the City of Redmond Water Utility. This flow estimate shall be the gallons per minute available at 20 psi residual for the maximum instantaneous peak.

-The water pressure zone(s) shall be identified. Any peculiarities of the water supply system at the location should also be noted.

vii. Hydrants shall be located in relation to the building or area they serve.

viii. The Fire Marshal may consider existing hydrants within 300-feet of a single family residential project as providing some portion of coverage.

ix. Maximum hydrant spacing is 300-feet on center for commercial, multi-family, or single family residential 6,000 square feet or more.

x. Maximum hydrant spacing is 600-feet on center for surface parking lots, and single-family residential 6000 square feet or more.

xi. Where structures on a dead-end street access are over 150-feet from a hydrant, an additional hydrant may be required within 150-feet and placed in relation to the overall development and existing hydrant layout.

xii. Proposed hydrant and FDC locations and existing hydrant locations shall be shown. Hydrant locations must be coordinated with and approved by both the water supplier and the Redmond Fire Department.

xiii. Hydrants shall be no closer than 12' to a carport, garage, building or dumpster. Planter islands or peninsulas for hydrants require a minimum diameter of 8 feet. Four feet is to be maintained between face of curbs and fire protection equipment and if applicable between hydrants, FDCs and PIVs. If closer to the curb, approved protective posts are required.

xiv. Hydrants, FDCs and PIVs should be a minimum of 40 feet from other structures and on the opposite side of the access from the building they serve, unless approved otherwise. xv. FDCs and PIVs shall be located adjacent to a hydrant, unless approved otherwise.

xvi. Bollards are required around natural gas meters if the driving surface is within 20 feet.