

STATE ENVIRONMENTAL POLICY ACT (SEPA) DETERMINATION OF NON-SIGNIFICANCE

For more information about this project visit www.redmond.gov/landuseapps

PROJECT INFORMATION

PROJECT NAME: Redmond Woodinville Road

SEPA FILE NUMBER: SEPA-2016-01674

PROJECT DESCRIPTION:

Red-Wood Road Channel Stabilization and Culvert Repair at NE 98th Street. Construct a roughened channel stabilization project and repair culvert and outlet pipe in a ravine.

PROJECT LOCATION: along unnamed creek

SITE ADDRESS: 0 No Address
REDMOND, WA 98052

APPLICANT: Eric LaFrance

LEAD AGENCY: City of Redmond

The lead agency for this proposal has determined that the requirements of environmental analysis, protection, and mitigation measures have been adequately addressed through the City's regulations and Comprehensive Plan together with applicable State and Federal laws.

Additionally, the lead agency has determined that the proposal does not have a probable significant adverse impact on the environment as described under SEPA.

An Environmental Impact Statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. **This information is available to the public on request.**

CITY CONTACT INFORMATION

PROJECT PLANNER NAME: Cathy Beam

PHONE NUMBER: 425-556-2429

EMAIL: cbeam@redmond.gov

IMPORTANT DATES

COMMENT PERIOD

Depending upon the proposal, a comment period may not be required. An "**X**" is placed next to the applicable comment period provision.

There is no comment period for this DNS. Please see below for appeal provisions.

'**X**' This DNS is issued under WAC 197-11-340(2), and the lead agency will not make a decision on this proposal for 14 days from the date below. Comments can be submitted to the Project Planner, via phone, fax (425)556-2400, email or in person at the Development Services Center located at 15670 NE 85th Street, Redmond, WA 98052. **Comments must be submitted by 10/14/2016.**

APPEAL PERIOD

You may appeal this determination to the City of Redmond Office of the City Clerk, Redmond City Hall, 15670 NE 85th Street, P.O. Box 97010, Redmond, WA 98073-9710, **no later than 5:00 p.m. on 10/28/2016**, by submitting a completed City of Redmond Appeal Application Form available on the City's website at www.redmond.gov or at City Hall. You should be prepared to make specific factual objections.

DATE OF DNS ISSUANCE: September 30, 2016

For more information about the project or SEPA procedures, please contact the project planner.

RESPONSIBLE OFFICIAL: Robert G. Odle
Planning Director

SIGNATURE: _____

RESPONSIBLE OFFICIAL: Linda E. De Boldt
Public Works Director

SIGNATURE: _____

Address: 15670 NE 85th Street Redmond, WA 98052

CITY OF REDMOND

ENVIRONMENTAL CHECKLIST

PROJECT ACTION

(Revised 5/27/15)

Purpose of the Checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the City of Redmond identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply" and indicate the reason why the question "does not apply". It is not adequate to submit responses such as "N/A" or "does not apply"; without providing a reason why the specific section does not relate or cause an impact. Complete answers to the questions now may avoid unnecessary delays later. If you need more space to write answers attach them and reference the question number.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the City can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. When you submit this checklist the City may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Planner Name: CBeam

Date of Review: 9/21/16

To Be Completed By Applicant	Evaluation for Agency Use Only
A. BACKGROUND	
1. Name of proposed project, if applicable: Red-Wood Road Channel Stabilization and Culvert Repair at NE	CB
2. Name of applicant: City of Redmond	CB
3. Address and phone number of applicant and contact person: Eric LaFrance, Project Manager (425)-556-2722, City of Redmond MS: 2NPW, 15670 NE 85th Street, PO Box 97010, Redmond,	CB
4. Date checklist prepared: July 2016	C B
5. Agency requesting checklist: City of Redmond	CB
6. Give an accurate, brief description of the proposal's scope and nature: i. Acreage of the site: 6 acre parcel	CB
ii. Number of dwelling units/ buildings to be constructed: 0	CB
iii. Square footage of dwelling units/ buildings being added: N/A	CB
iv. Square footage of pavement being added: 0	CB
v. Use or principal activity: Drainage	CB
vi. Other information:	CB
7. Proposed timing or schedule (including phasing, if applicable): Summer 2017 or 2018: In-water work will occur approximately between July 1 and August 31. Restoration work (planting) likely to occur after October 1 to avoid need for irrigation of new plantings.	CB

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<p>8. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, explain.</p> <p>There are no plans for future work once the drainage is repaired and mitigated, aside from routine maintenance (including future removal of sediments from the bird cage structure at the base of the ravine).</p>	<p>CB</p>
<p>9. List any environmental information you know about that has been prepared or will be prepared directly related to this proposal.</p> <p>Biological Evaluation JARPA Application Wetland determination memo Critical Areas Report Geo-technical Report</p>	<p>CB</p>
<p>10. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, explain.</p> <p>N/A</p>	<p>CB</p>
<p>11. List any government approvals or permits that will be needed for your proposal, if known.</p> <p>WDFW - Hydraulic Project Approval. City of Redmond - Clearing and Grading, Critical Areas Review, SEPA Determination. USACE - Nationwide Permit, Endangered Species Act Concurrence. +</p>	<p>CB</p>
<p>12. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.</p> <p>The purpose of this project is to repair erosion and stability issues in the ravine by reconstructing the outlet pipe and piping under Redmond-Woodinville Road NE (Red-Wood Rd). The existing 24-inch CMP drainage pipe has failed. Construction will involve removing old pipe pieces, constructing new channel and 20-inch HDPE pipe, and constructing habitat features and improving +</p>	<p>CB</p>

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<p>13. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.</p> <p>The project site is between Red-Wood Road (SR 202) and 160th Ave NE, primarily on tax parcel 0225059250, in the NE quadrant of Section 2, Township 25N, Range 5E.</p> <p>See Figure 1 and Plan Drawings.</p>	<p>CB</p>
<p>B. ENVIRONMENTAL ELEMENTS</p> <p>1. Earth</p> <p>a. General description of the site</p> <p><input type="checkbox"/> Flat</p> <p><input type="checkbox"/> Rolling</p> <p><input checked="" type="checkbox"/> Hilly</p> <p><input checked="" type="checkbox"/> Steep slopes</p> <p><input type="checkbox"/> Mountainous</p> <p><input type="checkbox"/> Other</p> <p>b. What is the steepest slope on the site (approximate percent slope)? Describe location and areas of different topography.</p> <p>The slopes on the upper portion of the project area are 30-50%, with small areas of even steeper slopes and vertical banks alongside the ravine (especially where erosion has undercut banks) and at the base of the Red-Wood Road retaining wall. See Plan Drawings, Sheet 6 for a cross-section of slopes along the length of the project. Slopes are about 20% at mid-slope, through the cascade-and-pool section, and slopes are low grade to flat at the bottom of the hill, at and below the location of the birdcage.</p>	<p>CB</p> <p>CB</p>

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<p>c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, mulch)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.</p> <p>The USDA Soil Survey for King County maps all soils around the ravine site as Alderwood gravelly sandy loam, 15-30 percent slopes. The Alderwood series is made up of moderately well drained soils, which are considered upland soils. Soils west of 160th Avenue are mapped as Snohomish silt loam, thick surface variant.</p>	<p>CB</p>
<p>d. Are there surface indications or history of unstable soils in the immediate vicinity? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe.</p> <p>Banks alongside the ravine are eroding and have undercut surrounding trees. See site photos, Photos 1 and 2.</p> <p>Sloughing is present on slopes adjacent to the ravine. See Photo 12.</p>	<p>CB</p>
<p>e. Describe the purpose, type, total area, location and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.</p> <p>Grading during replacing of pipe and channel work; dredging in pool for erosion control. Sub-angular cobbles/boulders placed in stream. Channel restoration requires no cut and 10 cubic yards (cy) of fill (obtained commercially or recycled from on site) below the OHWM. Total cut/fill is 4.81/166.16 cy over 2,007 square feet.</p>	<p>CB</p>
<p>f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.</p> <p>Some minor erosion could occur during removal of old pipe, replacement with new pipe, and construction of the cascade-and-pool section. Work will be performed in the dry season to avoid excess erosion. See TESC plan in Plan Drawings, Sheet 3.</p>	<p>CB</p>
<p>g. About what percentage of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?</p> <p>No impervious surface will be added.</p>	<p>CB</p>

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<p>h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any.</p> <p>The project is being performed to prevent erosion in the ravine. Best management practices such as temporary erosion fences, a stormwater bypass, and tarps over loose materials will minimize the movement of soil during any summer rainstorms during construction. Potential erosion in new areas of topsoil will be +</p>	<p>CB</p>
<p>i. Does the landfill or excavation involve over 100 cubic yards throughout the lifetime of the project?</p> <p>Yes. Total fill (including fill under new pipe and for roughened channel) is 166 cubic yards.</p>	<p>CB</p>
<p>2. Air</p>	
<p>a. What types of emissions to the air (i.e. dust, automobile, odors, industrial wood smoke, and greenhouse gases) would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.</p> <p>Emissions will result from construction equipment. These emissions will be temporary, and no construction equipment is expected to be needed once the project is complete.</p>	<p>CB</p>
<p>b. Are there any off-site sources of emissions or odor that may affect your proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, generally describe.</p> <p>No off-site sources of emissions are expected to affect the proposal.</p>	<p>CB</p>
<p>c. Proposed measures to reduce or control emissions or other impacts to air, if any.</p> <p>Construction equipment will be properly maintained, and shut off when not in use.</p>	<p>CB</p>

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<p>3. Water</p> <p>a. Surface</p> <p>1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, lakes, ponds, wetlands)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe type, location and provide names. If appropriate, state what stream or river it flows into. Provide a sketch if not shown on site plans.</p> <p>The project takes place in an unnamed stream (Stream A). The nearest wetland is 150 feet away from the birdcage at the downstream end of this project (See Figure 3). The approximately 600-square-foot wetland is not hydraulically connected to the stream and has a 75-foot buffer that will not be affected by the project.</p> <p>2. Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe and attach available plans. Note approximate distance between surface waters and any construction, fill, etc.</p> <p>Work will occur in the streambed, but during the dry. No work will occur when water is flowing. See Plan Drawings, Sheets 2 through 9.</p> <p>3. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.</p> <p>The pool at base of hill will be dredged. Sub-angular rock backfill and boulders will be placed in the stream. Total fill is 166 cubic yards, obtained from on site or from commercial source.</p> <p>4. Will the proposal require surface water withdrawals or diversions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Will the proposal require permanent dewatering or temporary dewatering? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, give general description, purpose, and approximate quantities if known.</p> <p>In-water work will occur in the dry. A temporary stormwater bypass will protect the work area in the event of unseasonable wet weather. This bypass will be removed after construction.</p>	<p>CB</p> <p>CB</p> <p>CB</p> <p>CB</p>

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<p>5. Does the proposal lie within a 100-year floodplain? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note location on the site plan.</p> <p>The nearest 100-year floodplain is present west of 160th Avenue West, and does not overlap with the project area.</p>	<p>CB</p>
<p>6. Does the proposal involve any discharge of waste materials to surface waters? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe the type of waste and anticipated volume of discharge.</p> <p>No waste materials will be discharged to surface waters. The work will occur during the dry.</p>	<p>CB</p>
<p>7. Is your property located within the Bear/Evans Creek Watershed (see attached map)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, answer questions 8 & 9. If no, go to the next section.</p> <p>The property is not within the Bear/Evans Creek Watershed.</p>	<p>CB</p>
<p>8. Provide details on how you propose to maximize infiltration of runoff to recharge associated stream during the summer months.</p> <p>N/A</p>	<p>CB</p>
<p>9. Does your project propose an increase in fecal coliform levels in the surface water? If so, describe impacts.</p> <p>N/A</p>	<p>CB</p>

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<p>b. Ground</p> <p>1. Will groundwater be withdrawn from a well for drinking water or other purpose? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give general description, purpose, and approximate quantities if known.</p> <p>Groundwater and wells are not an element of this project.</p> <p>2. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: domestic sewage; industrial, containing the following chemicals, agricultural; etc.) Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.</p> <p>No waste material will be discharged into the ground.</p>	<p>CB</p> <p>CB</p>
<p>c. Water Runoff (including storm water):</p> <p>1. Describe the source(s) of runoff (including storm water) and method of collection, transport/conveyance, and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.</p> <p>The ravine's pipe under Red-Wood Road is designed to route stormwater from east of the road to the birdcage, and ultimately to the Sammamish River (Figure 2); the new pipe is being installed to repair damaged pipe and more effectively convey stormwater. The flow of runoff originating from nearby slopes will not be changed. During construction, a temporary stormwater bypass plan will be implemented. +</p>	<p>CB</p>

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<p>2. Could waste materials enter ground or surface waters? If so, generally describe.</p> <p style="background-color: #ffffcc; padding: 5px;">No waste materials will enter ground or surface water.</p>	CB
<p>3. Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.</p> <p style="background-color: #ffffcc; padding: 5px;">The drainage itself is being repaired but the stream will not be rerouted. Drainage patterns will be improved by replacing the broken pipe: stormwater from east of Red-Wood Road will be delivered more effectively to lower-slope areas (at the cascade and pool section), rather than being released on higher, steeper slopes.</p>	CB
<p>d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any.</p> <p style="background-color: #ffffcc; padding: 5px;">The project is intended as a measure to control surface water and runoff more effectively, with reduced erosion and sedimentation of downstream waters.</p>	CB
<p>4. Plants</p> <p>a. Select types of vegetation found on the site:</p> <p>Deciduous Tree: Alder <input checked="" type="checkbox"/> Maple <input checked="" type="checkbox"/> Aspen <input type="checkbox"/> Other <input type="checkbox"/></p> <p>Evergreen Tree: Cedar <input type="checkbox"/> Fir <input checked="" type="checkbox"/> Pine <input type="checkbox"/> Other <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> Shrubs</p> <p><input type="checkbox"/> Grass</p> <p><input type="checkbox"/> Pasture</p> <p><input type="checkbox"/> Crop or Grain</p> <p><input type="checkbox"/> Orchards, Vineyards, or Other Permanent Crops</p> <p>Wet soil plants: Cattail <input type="checkbox"/> Buttercup <input type="checkbox"/> Bullrush <input type="checkbox"/></p> <p style="padding-left: 100px;">Skunk Cabbage <input type="checkbox"/> Other <input type="checkbox"/></p> <p>Water plants: Water lily <input type="checkbox"/> Eelgrass <input type="checkbox"/> Milfoil <input type="checkbox"/></p> <p style="padding-left: 100px;">Other <input type="checkbox"/></p>	

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<p>Other types of vegetation (please list)</p> <p>Thick coverage of Himalayan blackberry. Indian plum, salmonberry, trailing blackberry. Willows present near stream. Sparse herb layer (sword fern). Sparse reed canarygrass along stream.</p> <p>b. What kind and amount of vegetation will be removed or altered?</p> <p>Three trees will be removed, one maple and two alders. Woody material removed will be recycled within the cascade and pool system being created in the lower stream. Shrubs and herbs adjacent to the stream will be removed during grading, then the area will be replanted with native trees and shrubs. Himalayan blackberry along the north side of the stream will be removed.</p> <p>c. Provide the number of significant and landmark trees located on the site and estimate the number proposed to be removed and saved in the table below.</p> <table border="1" data-bbox="245 940 1013 1377"> <thead> <tr> <th>Tree Type</th> <th>Total (#)</th> <th>Removed (#)</th> <th>Saved (#)</th> <th>Percentage saved (%)</th> </tr> </thead> <tbody> <tr> <td>Landmark (>30" dbh*)</td> <td>0</td> <td>0</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Significant (6" – 30" dbh*)</td> <td>25</td> <td>3</td> <td>22</td> <td>88%</td> </tr> <tr> <td>Percentage (%)</td> <td>25</td> <td>3</td> <td>22</td> <td>88%</td> </tr> </tbody> </table> <p><i>Note: Since a SEPA Determination is issued early on in the project's review process; the information above is a preliminary estimate only and could change during the development review process.</i></p> <p>* DBH – Diameter at breast height</p> <p>d. List threatened or endangered species known to be on or near the site.</p> <p>No threatened or endangered plant species are known to be on or near the site.</p>	Tree Type	Total (#)	Removed (#)	Saved (#)	Percentage saved (%)	Landmark (>30" dbh*)	0	0	N/A	N/A	Significant (6" – 30" dbh*)	25	3	22	88%	Percentage (%)	25	3	22	88%	<p>CB</p> <p>CB</p> <p>CB</p> <p>CB</p>
Tree Type	Total (#)	Removed (#)	Saved (#)	Percentage saved (%)																	
Landmark (>30" dbh*)	0	0	N/A	N/A																	
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<p>e. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:</p> <p>The lower (western) two thirds of the project area will be planted with 44 trees and 133 shrubs, as shown in the planting plan on Plan Drawings, Sheets 8 and 9. Plants are native, including alder, douglas fir, cedar, willows, twinberry, salmonberry, dogwood, snowberry, Indian plum, vine maple and sword fern.</p> <p>f. List all noxious weeds and invasive species known to be on or near the site.</p> <p>Himalayan blackberry. Reed canarygrass.</p>	<p>CB</p> <p>CB</p>
<p>5. Animals</p>	
<p>a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.</p> <p>Birds: Hawk <input checked="" type="checkbox"/> Heron <input type="checkbox"/> Eagle <input type="checkbox"/> Songbirds <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/></p> <p>Mammals: Deer <input checked="" type="checkbox"/> Bear <input type="checkbox"/> Elk <input type="checkbox"/> Beaver <input type="checkbox"/></p> <p>Fish: Bass <input type="checkbox"/> Salmon <input type="checkbox"/> Trout <input type="checkbox"/> Herring <input type="checkbox"/> Shellfish <input type="checkbox"/> Other <input type="checkbox"/></p> <p>b. List any threatened or endangered species known to be on or near the site.</p> <p>No threatened or endangered plant species are known to be on or near the site. The stream is not considered fish-passable.</p>	<p>CB</p> <p>CB</p>
<p>c. Is the site part of a migration route? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, explain.</p> <p>No specific migration routes occur at or near the site (however, the greater Seattle area is within the Pacific Flyway for migratory birds).</p>	<p>CB</p>

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<p>d. Proposed measures to preserve or enhance wildlife, if any:</p> <p>The project is intended to improve conditions and habitat in the ravine, including cascades and pools along the channel of Wetland A. 44 trees and 133 shrubs will be planted as part of the project.</p>	<p>CB</p>
<p>e. List any invasive animal species known to be on or near the site.</p> <p>None known.</p>	<p>CB</p>
<p>6. Energy and Natural Resources</p>	
<p>a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.</p> <p>The completed project will not require any utilities or energy.</p>	<p>CB</p>
<p>b. Would your project affect the potential use of solar energy by adjacent properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, generally describe.</p> <p>This project does not have the potential to affect solar energy use by adjacent properties.</p>	<p>CB</p>
<p>c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.</p> <p>Not applicable.</p>	<p>CB</p>

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<p>7. Environmental Health</p> <p>a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe.</p> <p>There are no known environmental health hazards associated with this proposal.</p> <p>1. Describe any known or possible contamination at the site from present or past practices.</p> <p>No contamination at the site is known or listed on Ecology's 303d list or mapping.</p> <p>2. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.</p> <p>There are no known hazardous conditions in the project area.</p> <p>3. Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project. (for example: flammable liquids, combustible liquids, flammable gases, combustible or flammable fibers, flammable solids, unstable materials, corrosives, oxidizing materials, organic peroxides, nitromethane, ammonium nitrate, highly toxic material, poisonous gas, smokeless powder, black sporting powder, ammunition, explosives, cryogenics, medical gas, radioactive material, biological material or high piled storage (over 12' in most cases).</p> <p>Care shall be taken to ensure that during construction no petroleum products, hydraulic fluid, sediments, chemicals, or other toxic or deleterious materials are allowed to spill and enter the stream.</p>	<p>CB</p> <p>CB</p> <p>CB</p> <p>CB</p>

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<p>4. Describe special emergency services that might be required.</p> <p>No special emergency service needs are anticipated.</p>	<p>CB</p>
<p>5. Proposed measures to reduce or control environmental health hazards, if any.</p> <p>No environmental health hazards are anticipated; therefore, no control measures are proposed.</p>	<p>CB</p>
<p>b. Noise</p>	
<p>1. What types of noise exist in the area which may affect your project (for example: traffic equipment, operation, other)?</p> <p>Traffic noise exists on both Red-Wood Road NE and 160th Avenue NE.</p>	<p>CB</p>
<p>2. What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.</p> <p>There will be construction noise during pipe installation and rebuilding the stream bed, during daylight hours. It is not anticipated that this noise will be significantly louder than normal daily noise levels in the area.</p>	<p>CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>3. Proposed measures to reduce or control noise impacts, if any.</p> <p>Because of the neighboring houses, construction will only take place during daylight hours and will follow City of Redmond standard specifications for noise (Ordinance #2006).</p>	<p>CB</p>
<p>8. Land and Shoreline Use</p> <p>a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.</p> <p>The area is currently a forested slope between residential housing to the east and an apartment complex to the west. The proposal will not affect land uses in either area.</p> <p>b. Has the site been used as working farmlands or working forest lands? Is so, describe. How much agricultural or forest land of long term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to non-farm or non-forest use?</p> <p>The project area has not been used as a farm or working forest land.</p> <p>1). Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how?</p> <p>Not applicable.</p>	<p>CB</p> <p>CB</p> <p>CB</p> <p>CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>c. Describe any structures on site.</p> <p>No structures are on site. At the east end of the project is the retaining wall for Red Wood Road at the west end is a birdcage for drainage of the stream.</p>	<p>CB</p>
<p>d. Will any structures be demolished? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, what?</p> <p>No structures are on site.</p>	<p>CB</p>
<p>e. What is the current zoning classification of the site?</p> <p>R-4: Single-family urban residential; current land use: natural and other recreational.</p>	<p>CB</p>
<p>f. What is the current comprehensive plan designation of the site?</p> <p>High Density Residential</p>	<p>CB - Single Family Urban</p>
<p>g. If applicable, what is the current shoreline master program designation of the site?</p> <p>Not applicable.</p>	<p>CB</p>
<p>h. Has any part of the site been classified as a critical area by the city or county? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, specify. (If unsure, check with City)</p> <p>City of Redmond's property maps do not map critical areas on site, but indicate the small stream as Class IV . Under Redmond Zoning Code, Class IV streams and their buffers are critical areas. See property report in Figure 1.</p>	<p>CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>i. Approximately how many people would reside or work in the completed project?</p> <p>No people would reside or work in the completed project.</p>	<p>CB</p>
<p>j. Approximately how many people would the completed project displace?</p> <p>The project would not displace any people.</p>	<p>CB</p>
<p>k. Proposed measures to avoid or reduce displacement impacts, if any:</p> <p>Not applicable; the project would not displace any people.</p>	<p>CB</p>
<p>l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:</p> <p>This project does not change existing or projected land use on the parcel.</p>	<p>CB</p>
<p>m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:</p> <p>This project will not affect nearby agricultural and forest lands.</p>	<p>CB</p>
<p>n. What percentage of the building will be used for:</p> <p>Warehousing <u> N/A </u></p> <p>Manufacturing <u> N/A </u></p> <p>Office <u> N/A </u></p> <p>Retail <u> N/A </u></p>	

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.</p> <p>No housing is proposed.</p>	<p>CB</p>
<p>c. Proposed measures to reduce or control housing impacts, if any:</p> <p>No housing is proposed.</p>	<p>CB</p>
<p>10. Aesthetics</p>	
<p>a. What is the tallest height of any proposed structure(s), not including antennas? What is the principal exterior building material(s) proposed?</p> <p>No structures are being installed.</p>	<p>CB</p>
<p>b. What views in the immediate vicinity would be altered or obstructed?</p> <p>No views will be changed by the project.</p>	<p>CB</p>
<p>c. Proposed measures to reduce or control aesthetic impacts, if any:</p> <p>No aesthetic changes will occur. Nearby residents and drivers will not see the project changes due to tree cover on site.</p>	<p>CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>11. Light and Glare</p> <p>a. What type of light or glare will the proposal produce? What time of day or night would it mainly occur?</p> <p style="background-color: #ffffcc; padding: 5px;">This project will not produce light or glare.</p> <p>b. Could light or glare from the finished project be a safety hazard or interfere with views?</p> <p style="background-color: #ffffcc; padding: 5px;">This project will not produce light or glare.</p> <p>c. What existing off-site sources of light or glare may affect your proposal?</p> <p style="background-color: #ffffcc; padding: 5px;">This project will not be affected by light and glare.</p> <p>d. Proposed measures to reduce or control light and glare impacts, if any:</p> <p style="background-color: #ffffcc; padding: 5px;">This project will not produce light or glare.</p>	<p style="background-color: #c8e6c9; text-align: center; padding: 10px;">CB</p>
<p>12. Recreation</p> <p>a. What designated and informal recreational opportunities are in the immediate vicinity?</p> <p style="background-color: #ffffcc; padding: 5px;">The site is not used for recreation.</p>	<p style="background-color: #c8e6c9; padding: 10px;">CB - Sammamish River Trail to the west beyond housing development.</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>b. Would the proposed project displace any existing recreational uses? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe.</p>	CB
<p>The site is not used for recreation.</p>	
<p>c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:</p>	CB
<p>The site is not used for recreation.</p>	
<p>13. Historic and Cultural Preservation</p>	
<p>a. Are there any buildings structures or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, generally describe.</p>	CB
<p>The project area is located within a ravine associated with an unnamed seasonal stream - no buildings are present on site.</p>	
<p>The WISAARD database (Department of Archaeology and Historic Preservation) does not contain any listings for historic properties or heritage barns on or adjacent to the project site.</p>	
<p>The City of Redmond's 1998 and 2005 Historic Property Inventory was also surveyed to determine that no historic properties are located within or adjacent to the project site.</p>	

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.</p> <p>The project site is located within an area designated at very high and high risk for cultural resources by the WA Dept. of Archaeology and Historic Preservation WISAARD system. However, the majority of the project site has been disturbed by way of being adjacent to a major transportation corridor, being part of a managed stream corridor, and being significantly eroded by naturally occurring runoff. Consultation is underway to determine the recommended approach for considering cultural resources based on the project scope and location.</p>	<p>CB</p>
<p>c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the Department of Archaeological and Historic Preservation, archaeological surveys, historic maps, GIS data, etc.</p> <p>The project scope and location will be submitted to WA Dept. of Archaeology and Historic Preservation and to the affected Tribes to determine the requirements specific to cultural resources assessment and consultation with affected Tribes. The project involves restoration of an eroded stream bed through the addition of new soils from an off-site location approved by the WA Dept. of Transportation. Land disturbances are anticipated to be minimal and limited to the stream bed and the removal of one tree that is immediately adjacent to the stream's eroded upper bank.</p>	<p>CB</p>
<p>d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.</p> <p>Consultation with WA Dept. of Archaeology and Historic Preservation and with the affected Tribes will determine the recommended approach for addressing protocols that avoid disturbance of and protect cultural resources. The project will also follow federal and state standards in the event of discovering any unanticipated resources.</p>	<p>CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>14. Transportation</p> <p>a. Identify public streets and highways serving the site, or affected geographic area, and describe proposed access to the existing street system. Show on site plans, if any.</p> <p style="background-color: #ffffcc; padding: 5px;">Red-Wood Road (SR 202) borders the project on the east; 160th Avenue NE borders the project on the west. Temporary construction access will occur from both roads. No permanent road improvements are proposed to established roads or the access to the ravine. A temporary access entrance will be created from 160th Avenue.</p> <p>b. Is the site currently or affected geographic area currently served by public transit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, generally describe. If not, what is the approximate distance to the nearest transit stop?</p> <p style="background-color: #ffffcc; padding: 5px;">Multiple bus routes access the area.</p> <p>c. How many additional parking spaces would the completed project have? How many would the project eliminate?</p> <p style="background-color: #ffffcc; padding: 5px;">No parking spaces would be added or eliminated.</p> <p>d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle, or transportation facilities not including driveways? If so, generally describe (indicate whether public or private).</p> <p style="background-color: #ffffcc; padding: 5px;">The proposal will not require any changes to existing roads, bicycle lanes, or other transportation facilities. Traffic will be maintained on Red-Wood Road during construction. Temporary vehicle access will be created from 160th Avenue.</p>	<p style="text-align: center; background-color: #c8e6c9; padding: 10px;">CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.</p> <p>The project will not involve or affect transportation services.</p>	<p>CB</p>
<p>f. How many weekday vehicular trips (one way) per day would be generated by the completed project? <u>N/A</u> If known, indicate when peak volumes would occur: _____ - _____ a.m. and _____ - _____ p.m. How many of these trips occur in the a.m. peak hours? _____ How many of these trips occur in the p.m. peak hours? _____ What percentage of the volume would be trucks (such as commercial and non-passenger vehicles)? _____ What data or transportation models were used to make these estimates?</p> <p>Occasional trips for maintenance or inspection may occur, a few times a year.</p>	<p>CB</p>
<p>g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.</p> <p>The project will not interfere with any movement of farm or forest materials.</p>	<p>CB</p>
<p>h. Proposed measures to reduce or control transportation impacts, if any.</p> <p>The project includes a traffic control plan on Red-Wood Road. Traffic, pedestrian, and bike lane access is to be maintained at all times.</p>	<p>CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>15. Public Services</p> <p>a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, generally describe.</p> <p>The completed project will not require public services.</p> <p>b. Proposed measures to reduce or control direct impacts on public services, if any.</p> <p>No services will be needed, so no measures are required.</p>	<p>CB</p> <p>CB</p>
<p>16. Utilities</p> <p>a. Select utilities currently available at the site:</p> <p><input type="checkbox"/> Electricity</p> <p><input type="checkbox"/> Natural Gas</p> <p><input type="checkbox"/> Water</p> <p><input type="checkbox"/> Refuse Service</p> <p><input type="checkbox"/> Telephone</p> <p><input type="checkbox"/> Sanitary Sewer</p> <p><input type="checkbox"/> Septic System</p> <p><input type="checkbox"/> Other</p>	<p>CB - None</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.</p> <p>No utilities are proposed.</p>	<p>CB</p>

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: _____

Name of Signee: Eric LaFrance

Position and Agency/Organization: Senior Stormwater Engineer, City of Redmond

Relationship of Signer to Project: Project Manager

Date Submitted: 9/20/16

Figures

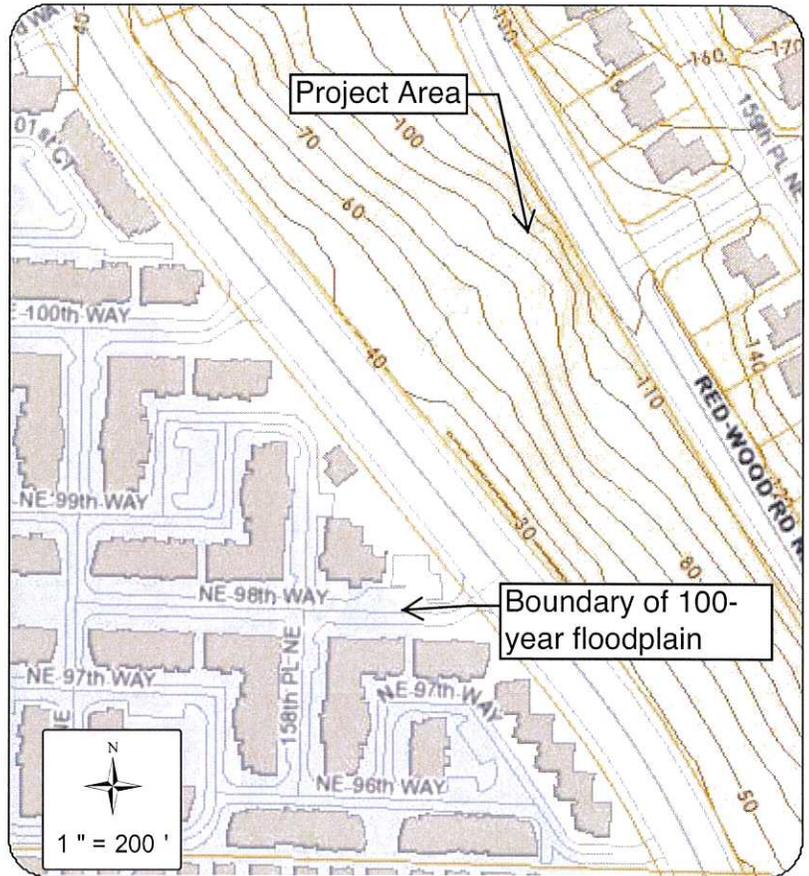
Property Report

Property Info

PIN:
0325059018
Site Address:
Unknown
Taxpayer Name:
REDMOND CITY OF
Taxpayer Address:
PO BOX 97010 M/S 3NFN
REDMOND, WA 98073

Critical Areas

Flooded Areas:
No
Class I-IV Stream:
Class IV
Class I Stream Buffer:
Yes
Shoreline environment(s):
No
Wellhead Protection Zone:
4



Zoning / LandUse

Current Land Use:
Transportation, communication, information, and utilities
Zone:
R-20
Zoning Overlay:
No
Comprehensive Plan Land Use Designation:
High Density Residential
Cottages allowed:
No
Affordable housing regulations:
Yes
Neighborhood:
Willows / Rose Hill

This map printout may not show all features selected on-screen. The display of certain map features may be obscured by other features that have been selected. Information shown on these maps is derived from public records that are constantly undergoing change and does not replace a site survey, and is not warranted for content or accuracy. The City does not guarantee the positional or thematic accuracy of the GIS data. The GIS data or cartographic digital files are not a legal representation of any of the features which it depicts, and disclaims any assumption of the legal status of which it represents. Any implied warranties, including warranties of merchantability or fitness for a particular purpose, shall be expressly excluded.

Figure 10 - Property Map and Contour Lines



STORMWATER SYSTEM MAP

4/29/2016

FOR INFORMATION ONLY

THIS MAP IS NOT A CONTRACT DOCUMENT AND DOES NOT REPRESENT A GUARANTEE OF ACCURACY. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION SHOWN ON THIS MAP.

LEGEND

	Redmond MH		Valve		Redmond CB		Redmond MH CS
	Redmond CB CS		Cleanout		Redmond Pipe		Non-Redmond Pipe
	Redmond CB CS		Non-Redmond Culvert		Redmond Culvert		Non-Redmond Culvert
	Redmond Inlet/Area Drain		SW SideSewer		Redmond Underdrain		Non-Redmond Underdrain
	Non-Redmond Chambers		Redmond Vault		Non-Redmond Vault		Redmond Bioswale
	Non-Redmond Chambers		Non-Redmond Bioswale		Pump		City Limits
	Pond		Stream		Contour		City Limits

SCALE: 1" = 200'

0 60 120 180

1/4 SEC. T. N. R. E

4/29/2016

FOR INFORMATION ONLY

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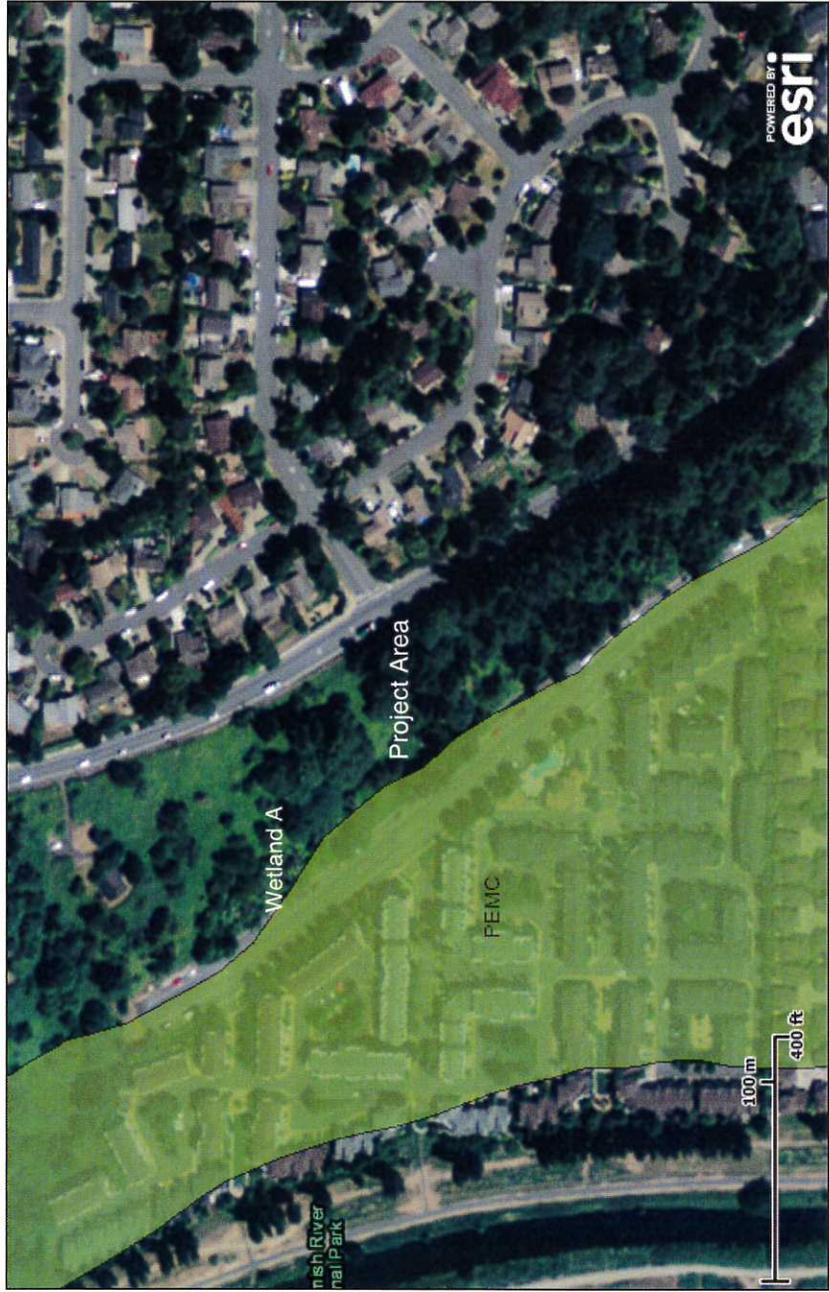


U.S. Fish and Wildlife Service

National Wetlands Inventory

Vicinity of 160th St
Culvert

Sep 25, 2015



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for accuracy or currency of the base data shown on this map. All metadata and other information should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Figure 12 - NWI Wetland Map

Project Drawings

CITY OF REDMOND RED-WOOD RD CHANNEL STABILIZATION AND CULVERT REPAIR AT NE 98TH ST

TASK ORDER 15-06 PERMIT SUBMITTAL - NOT FOR CONSTRUCTION PROJECT NUMBER 20021514

UTILITY COORDINATION CONTACTS:

UTILITIES:

PIGLET SOUND ENERGY, POWER & GAS
EMERGENCY: 1-888-CAL-USE
GAS: JENNIE COLEMAN (425) 463-6500
ELECTRIC: ERK GUERRA (425) 748-6318

FRONTIER COMMUNICATIONS

JAY SCHWAB (425) 263-4019

COMCAST

RAYMOND PILKENTON (425) 263-5332

CITY OF REDMOND:

PROJECT MANAGER
ERIC LAFRANCE (425) 556-2722

UTILITIES
REBECCA BORKER (425) 556-2706

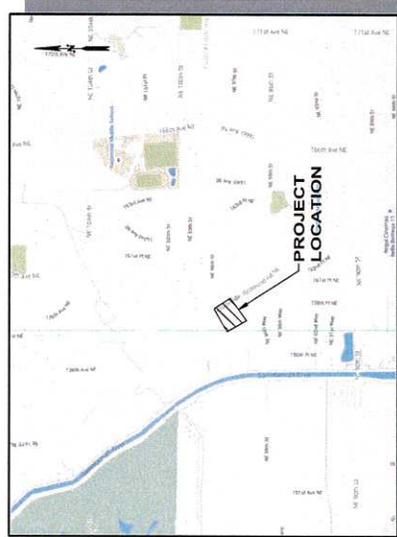
TRAFFIC SIGNAL
TRAFFIC SIGNAL TECHNICIANS (425) 556-2830

SURVEYOR:

AXIS SURVEY AND MAPPING
ZANE NALL, PLS
15241 NE 90TH ST.
REDMOND, WA 98052
(425) 823-5700
1-800-933-AXIS

ENGINEERING:

OSBORN CONSULTING, INC.
LAURA RUPPERT, PE
1800 112TH AVE. NE, SUITE 220E
BELLEVUE, WA 98004
(425) 451-4009



VICINITY MAP
N.T.S.

SHEET INDEX

SHEET #	SHEET TITLE
1	COVER SHEET
2	NOTES AND LEGEND
3	EXISTING CONDITIONS
4	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN (TESC)
5	OVERALL SITE PLAN AND PROFILE
6	STREAM SECTION AND DETAILS
7	SPECIAL CHAMBER PLAN AND PROFILE
8	STANDARD DETAILS
9	PLANTING PLAN AND DETAILS

APPROVED FOR CONSTRUCTION

DAVID M. PAUL, P.E. _____ DATE _____
CITY ENGINEER



Know what's below.
Call before you dig.



DATE	JULY 2016
SHEET	15-06
SCALE	N/A
H.	N/A
V.	N/A
1 of 9	

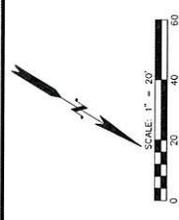
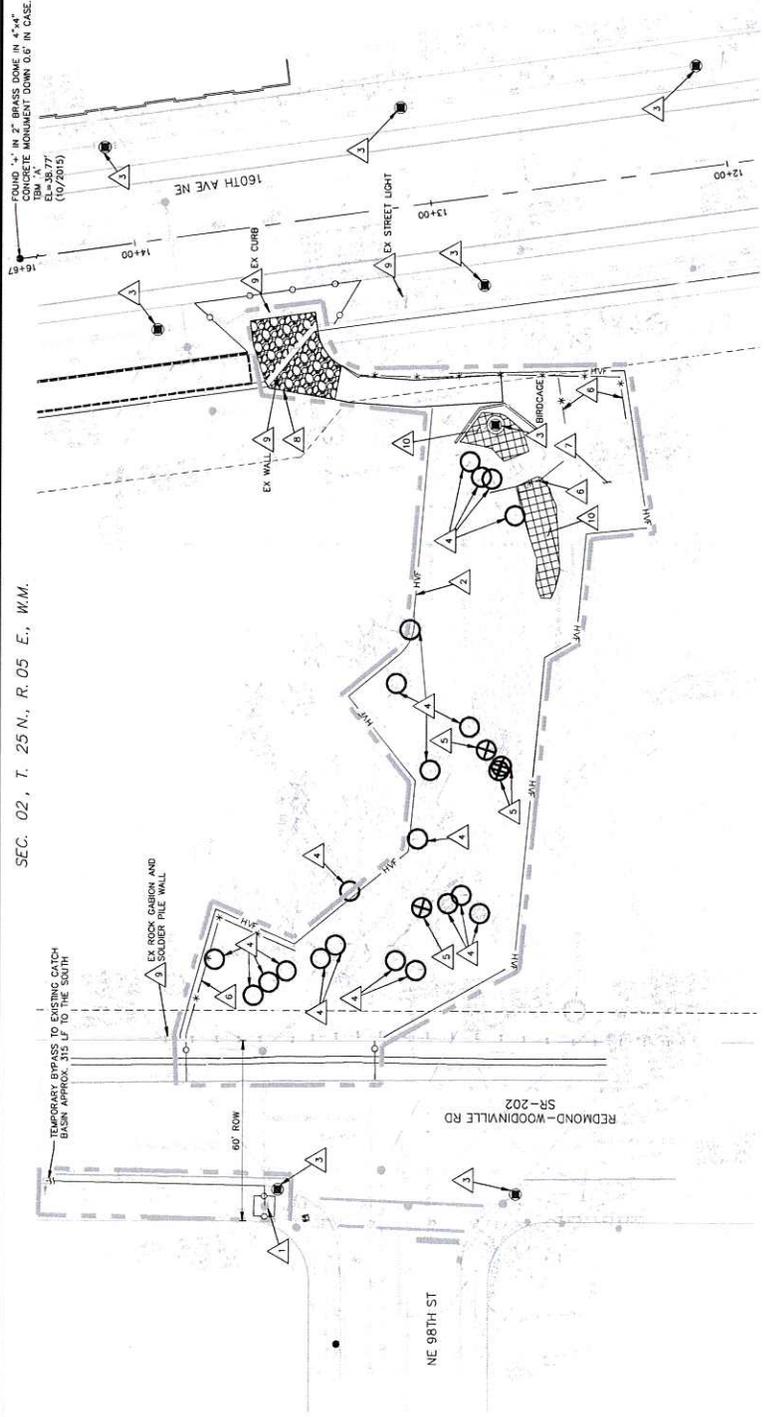


NO.	DATE	REVISION	BY

DESIGNED BY: OSBORN CONSULTING, INC.
DRAWN BY: OSBORN CONSULTING, INC.
CHECKED BY: OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph. (425) 451-4009
Bellevue, WA 98004 Fax (425) 451-4901

RED-WOOD RD CHANNEL STABILIZATION
AND CULVERT REPAIR AT NE 98TH ST
CITY OF REDMOND
COVER SHEET

SEC. 02, T. 25 N., R. 05 E., W.M.



GENERAL NOTES:

1. REFER TO THE TECHNICAL SPECIFICATIONS FOR LEGAL DESCRIPTIONS, EASEMENT EXHIBITS, AND CITY REPORTS.
2. THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL THE WORK ACCESS PLAN. THE WORK ACCESS PLAN SHALL DESCRIBE METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES AND TO MAINTAIN ACCESS TO REDMOND-WOODVILLE ROAD. THE CONTRACTOR SHALL PREPARE WORK ON REPLACEMENT WORK ON THE STEEP SLOPE, AND THE ROUGHENED CHANNEL. THE CONTRACTOR SHALL SUBMIT A PLAN THAT ADDRESSES METHODS OF CONTROLLING WATER DURING CONSTRUCTION AND REPAIR. THE WORK ACCESS PLAN SHALL BE LIMITED TO THE SHOULDER OF THE ROAD.

TESC NOTES:

1. INSTALL STORMWATER BYPASS PUMP AND DISCHARGE TO LOCATION INDICATED ON PLAN.
2. MARK PROJECT LIMITS IN ACCORDANCE WITH WSDOT STANDARD PLAN 1-10 (0-01) FROM MOBILITY FENCE.
3. PROVIDE EROSION PROTECTION PER WSDOT STANDARD PLAN 1-40.20-00 STORM DRAINAGE PROTECTION.
4. SPOOLS TO BE INSTALLED TO BRAIN BESS EROSION ZONING CODES 21.27.020. TREE LIMITS LESS THAN 10 INCH DIAMETER CAN BE REMOVED. APPROVAL FROM THE CITY OF REDMOND. TREE BRANCHES TRIMMED AS NEEDED.
5. REMOVE TREE AND SALVAGE FOR USE ALONG ROUGHENED CHANNEL. SEE SHEET 5 FOR PLACEMENT LOCATIONS.
6. INSTALL FILTER FENCE PER CITY OF REDMOND STANDARD DETAIL 502 FILTER FABRIC FENCE.
7. APPROXIMATE LOCATION FOR MATERIALS STAGING. EXISTING SPOOLS PILE TO BE REMOVED PRIOR TO STAGING.
8. INSTALL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE PER CITY OF REDMOND STANDARD DETAIL 503.
9. PROTECT EXISTING UTILITY LINES AND EXISTING CURB, GUTTER, AND SIDEWALK. RESTORE ANY PANELS CRACKED OR DAMAGED PER CITY OF REDMOND STANDARD DETAIL 303. STREET LIGHTS MUST REMAIN IN OPERATION AT ALL TIMES OR A TEMPORARY LIGHTING PLAN PROPOSED.
10. DREDGE POOL AREA AS PART OF EROSION CONTROL MEASURES AS DIRECTED IN THE FIELD BY CITY OF REDMOND REPRESENTATIVE.



PERMIT SUBMITTAL - NOT FOR CONSTRUCTION

RED-WOOD RD CHANNEL STABILIZATION AND CULVERT REPAIR AT NE 98TH ST
CITY OF REDMOND
TEMPORARY EROSION AND SEDIMENT CONTROL PLAN (TESC)



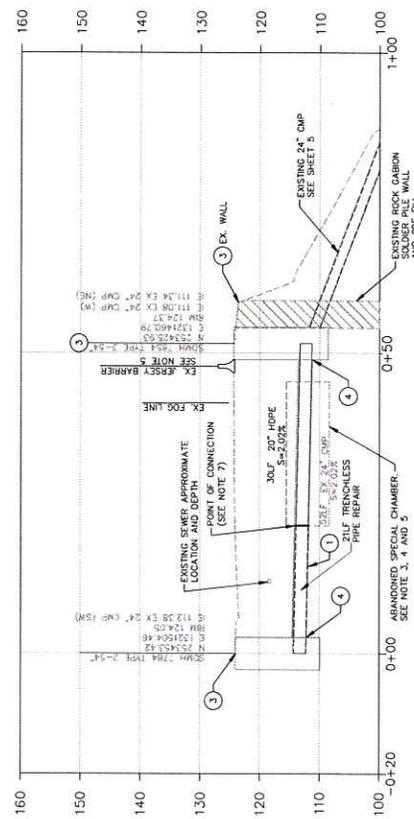
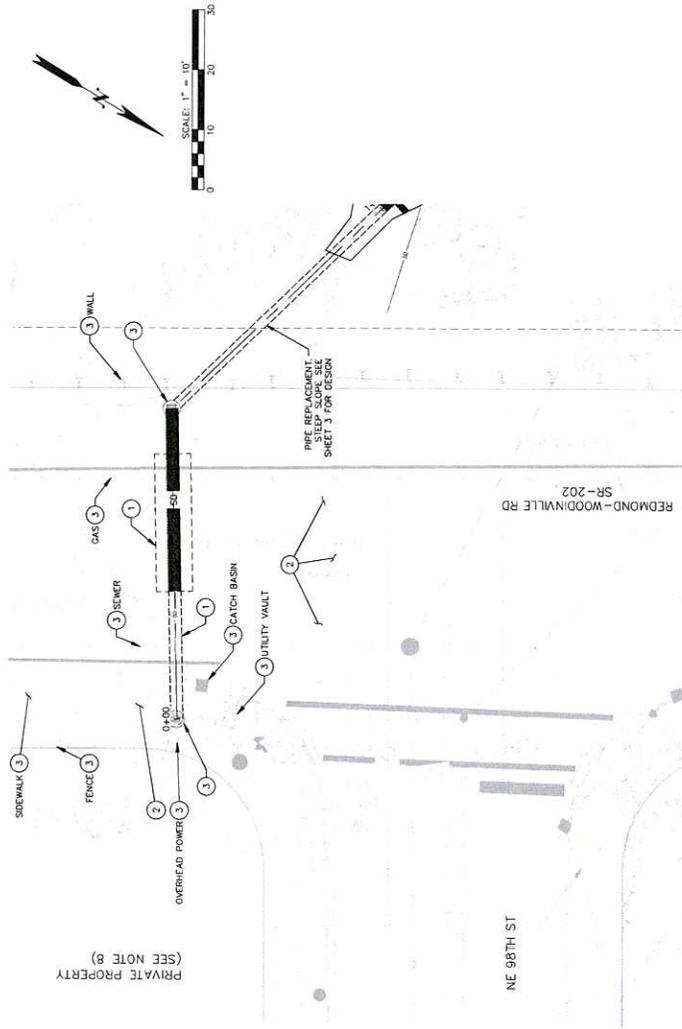
DATE: JULY 2016
SHEET: 4 of 9
SCALE: 15'-06"
H: 1"=20' v: 1"=20'

OSBORN CONSULTING, INC.
1800 112th Ave. NE, Suite 220E Ph: (425) 451-4009
Bellevue, WA, 98004 Fax: (425) 451-4901

DESIGNED BY: OSBORN
DRAWN BY: OSBORN
CHECKED BY: OSBORN
IN CHARGE: LCR

NO.	DATE	REVISION	BY

SEC. 02, T. 25 N., R. 05 E., W.M.



GENERAL NOTES:

- REFER TO THE TECHNICAL SPECIFICATIONS FOR LEGAL DESCRIPTIONS, EASEMENT EXHIBITS, AND CITY REPORTS.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL THE WORK ACCESS PLAN. THE WORK ACCESS PLAN SHALL ADDRESS METHODS TO COMPLETE THE TRENCHLESS PIPE REPAIR AND REPLACEMENT WORK ON REDMOND-WOODINVILLE ROAD. THE WORK ACCESS PLAN SHALL ADDRESS METHODS TO PREVENT EROSION AND DAMAGE TO THE EXISTING ROAD SURFACE AND UNDERLYING UTILITIES. THE WORK ACCESS PLAN SHALL ADDRESS METHODS OF CONTROLLING AND DIVERTING TRAFFIC AND THE TRAFFIC CONTROL PLAN. ALL WORK REQUIRED TO REPAIR AND REPLACE THE EXISTING COLLAPSED PIPE SHALL BE LIMITED TO THE SHOULDER OF THE ROAD.
- LOCATE EXISTING SPECIAL CHAMBER AND VERIFY THAT STORM PIPING MAY BE INSTALLED IN COMPLIANCE WITH ORIGINAL DESIGN AND INVERTS.
- REMOVE AND SALVAGE OR DISPOSE EXISTING STORM DRAIN PIPE WHERE NEW PIPE IS TO BE INSTALLED. THE CONTRACTOR SHALL ABANDON THE EXISTING COLLAPSED PIPE WITHIN THE SPECIAL CHAMBER PROVIDED THAT THE EXISTING ALIGNMENT AND INVERTS REMAIN UNCHANGED. THE CONTRACTOR SHALL PROVIDE ELEVATION OR DISPLACEMENT DURING FILING ACTIVITIES FULL 100 IN SPECIAL CHAMBER WITH CIP.
- UPON COMPLETION OF PIPE INSTALLATION CONTRACTOR SHALL PROVIDE TO THE CITY ENGINEER AND THE CITY ENGINEER SHALL VERIFY TO CONFIRM PIPE ALIGNMENT AND WATER TIGHTNESS.
- ALL PIPE REPAIR AND REPLACEMENT WORK ON REDMOND-WOODINVILLE ROAD SHALL BE LIMITED TO THE SHOULDER OF THE ROAD. EXISTING CONCRETE CURBS AND SIDEWALKS SHALL BE REPAIRED AND REFINISHED TO ORIGINAL CONSTRUCTION AND STATIONS.
- CONTRACTOR SHALL PROVIDE CONTINUOUS PIPE SIZE AND MATERIAL AT POINT OF CONNECTION.
- NO WORK SHALL BE PERFORMED ON PRIVATE PROPERTY.

CONSTRUCTION NOTES:

- ALL PIPE REPAIR AND REPLACEMENT WORK SHALL BE COMPLETED USING METHODS PER THE WORK ACCESS PLAN PROVIDED BY THE CONTRACTOR.
- PROVIDE CONTINUOUS PEDESTRIAN, BIKE LANE, AND TRAFFIC ACCESS ALONG CORRIDOR.
- PROTECT EXISTING UTILITY, STRUCTURE, OR WALL.
- CONNECT TO EXISTING STRUCTURE.



Know what's below.
Call before you dig.



PERMIT SUBMITTAL - NOT FOR CONSTRUCTION

REDWOOD RD CHANNEL STABILIZATION AND CULVERT REPAIR AT NE 98TH ST
CITY OF REDMOND
SPECIAL CHAMBER PLAN AND PROFILE

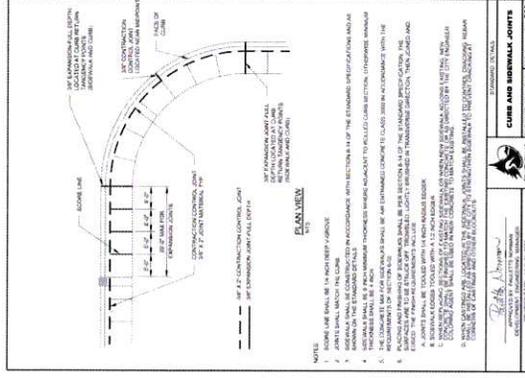
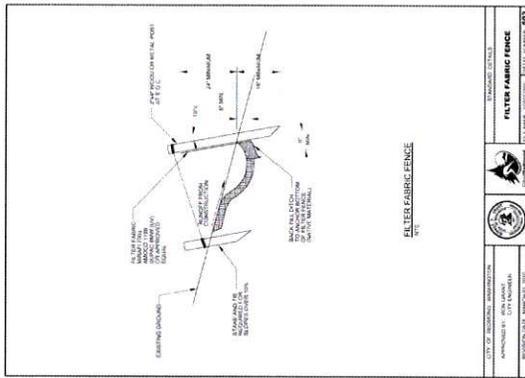
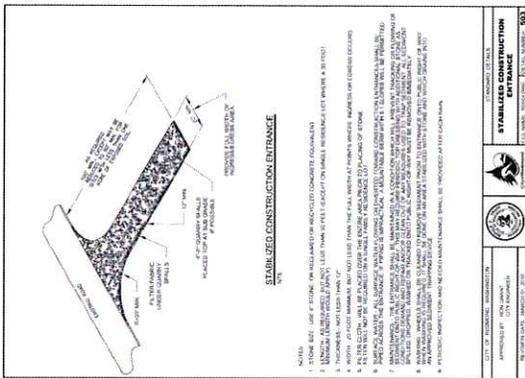


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1800 1121st Ave. NE, Suite 220E Ph. (425) 451-4009
Bellevue, WA 98004 Fax (425) 451-4901

NO.	DATE	REVISION	BY

DESIGNED BY: OSBORN CONSULTING, INC.
DRAWN BY: THE LCR
CHECKED BY: THE LCR

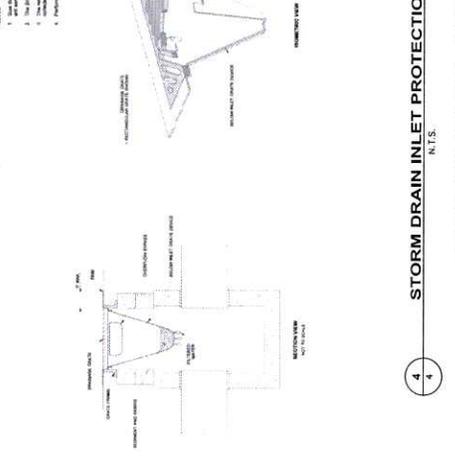
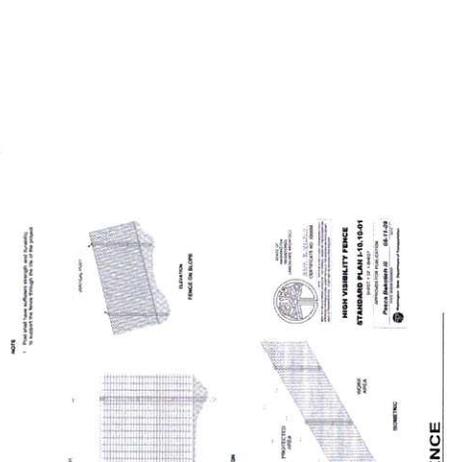
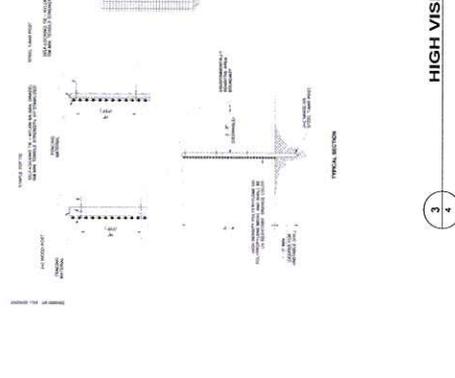
SEC. 02. T. 25 N., R. 05 E., W.M.



1 4 STABILIZED CONSTRUCTION ENTRANCE N.T.S.

2 4 FILTER FABRIC FENCE N.T.S.

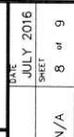
3 4 CURB AND SIDEWALK JOINTS N.T.S.



3 4 HIGH VISIBILITY FENCE N.T.S.

4 4 STORM DRAIN INLET PROTECTION N.T.S.

4 4 FILTER FABRIC FENCE N.T.S.



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RED-WOOD RD CHANNEL STABILIZATION
AND CULVERT REPAIR AT NE 98TH ST
CITY OF REDMOND
STANDARD DETAILS

DATE: JULY 2016
SHEET: 8 of 9
SCALE: 1"=20' v. N/A

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Site Photos



Photo 1. Looking upstream, upper portion of ravine.



Photo 2. Test Plot 1.



Photo 3. Looking upstream from Test Plot 1.



Photo 4. Looking downstream from Test Plot 1.



Photo 5. Looking uphill from birdcage structure at Test Plot 2 (under willow trees in upper left).



Photo 6. View looking uphill and north from Test Plot 2.



Photo 7. View looking towards ravine from Test Plot 2.