



DEVELOPMENT SERVICES DEPARTMENT
ENVIRONMENTAL COORDINATOR
450 110th Ave NE., P.O. BOX 90012
BELLEVUE, WA 98009-9012

OPTIONAL DETERMINATION OF NON-SIGNIFICANCE (DNS) NOTICE MATERIALS

The attached materials are being sent to you pursuant to the requirements for the Optional DNS Process (WAC 197-11-355). A DNS on the attached proposal is likely. This may be the only opportunity to comment on environmental impacts of the proposal. Mitigation measures from standard codes will apply. Project review may require mitigation regardless of whether an EIS is prepared. A copy of the subsequent threshold determination for this proposal may be obtained upon request.

File No. 15-111721-LO

Project Name/Address: Zhou Vegetation Management

Planner: David Wong

Phone Number: 425-452-4282/dwong@bellevuewa.gov

Minimum Comment Period: 06/18/2015

Materials included in this Notice:

- Blue Bulletin
- Checklist
- Vicinity Map
- Plans
- Other:

OTHERS TO RECEIVE THIS DOCUMENT:

- State Department of Fish and Wildlife / Sterwart.Reinbold@dfw.gov; Christa.Heller@dfw.wa.gov;
- State Department of Ecology, Shoreline Planner N.W. Region / Jobu461@ecy.wa.gov; sepaunit@ecy.wa.gov
- Army Corps of Engineers Susan.M.Powell@nws02.usace.army.mil
- Attorney General ecyolyef@atg.wa.gov
- Muckleshoot Indian Tribe Karen.Walter@muckleshoot.nsn.us; Fisheries.fileroom@muckleshoot.nsn.us



SEPA ENVIRONMENTAL CHECKLIST

UPDATED 2014

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants: [\[help\]](#)

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

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. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals: [\[help\]](#)

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. background [\[help\]](#)

1. Name of proposed project, if applicable: **Terry Vegetation Management Plan**
2. Name of applicant: **Terry Zhou**
3. Address and phone number of applicant and contact person: [\[help\]](#)
Applicant: Terry Zhou
Contact: Jie Sheng (425) 444-9740

4. Date checklist prepared: **April 28, 2015**
5. Agency requesting checklist: **City of Bellevue, Washington**
6. Proposed timing or schedule (including phasing, if applicable): **N/A**
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. **No**
8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. **Vegetation Management Plan**
9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. [\[help\]](#)
No
10. List any government approvals or permits that will be needed for your proposal, if known. [\[help\]](#) **N/A**
11. 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. (Lead agencies may modify this form to include additional specific information on project description.) [\[help\]](#)
Removal of existing tree; restoration in the area of removal according to the proposed vegetation plan.
12. 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. [\[help\]](#) **See attached site plan**

B. ENVIRONMENTAL ELEMENTS [\[help\]](#)

1. Earth

a. General description of the site [\[help\]](#)
(circle one): Flat, rolling, hilly, steep slopes, mountainous,
other _____

b. What is the steepest slope on the site (approximate percent slope)? **25%**

40%

- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? 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. **gravelly sand**
- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. **No**
- e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill. **N/A**
- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. [\[help\]](#) **No**
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? **No change to impervious surface percentage**
- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [\[help\]](#)
None; proposed plan will help with erosion control

Erosion control regulated by BCC 23.76

2. Air

- a. What types of emissions to the air 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. **None**
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. **No**
- c. Proposed measures to reduce or control emissions or other impacts to air, if any: [\[help\]](#)
N/A

3. Water

a. Surface Water: [\[help\]](#)

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. [\[help\]](#)

No existing streams; there is an existing natural drainage path west of the parcel.

Referred natural drainage path considered a Type N Stream

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans. [\[help\]](#)

See attached site plan

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. **N/A**

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. **No**

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. [\[help\]](#) **No**

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge. [\[help\]](#)

No

b. Ground Water:

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known. [\[help\]](#) **No**

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. [\[help\]](#) **N/A**

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe. [\[help\]](#) **N/A**

2) Could waste materials enter ground or surface waters? If so, generally describe. **No**

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. **No**

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: **N/A**

4. **Plants** [\[help\]](#)

a. Check the types of vegetation found on the site: [\[help\]](#)

deciduous tree: alder, maple, aspen, other

evergreen tree: fir, cedar, pine, other

shrubs

grass

- ___ pasture
- ___ crop or grain
- ___ Orchards, vineyards or other permanent crops.
- ___ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- ___ water plants: water lily, eelgrass, milfoil, other
- ___ other types of vegetation

b. What kind and amount of vegetation will be removed or altered? [\[help\]](#)

One existing fir tree

c. List threatened and endangered species known to be on or near the site. [\[help\]](#)

N/A

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: [\[help\]](#) See associated vegetation management plan

e. List all noxious weeds and invasive species known to be on or near the site.
Robert's geranium and English Ivy

5. Animals

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. Examples include: [\[help\]](#)

birds: hawk, heron, eagle, songbirds, other: None
 mammals: deer, bear, elk, beaver, other:
 fish: bass, salmon, trout, herring, shellfish, other _____

b. List any threatened and endangered species known to be on or near the site. [\[help\]](#) No

c. Is the site part of a migration route? If so, explain. No

d. Proposed measures to preserve or enhance wildlife, if any: N/A

e. List any invasive animal species known to be on or near the site. None

6. Energy and natural resources

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. [\[help\]](#) N/A

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. [\[help\]](#) No

- 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: [\[help\]](#)

N/A

7. Environmental health

- 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? If so, describe. [\[help\]](#)

N/A

- 1) Describe any known or possible contamination at the site from present or past uses.
- 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.
- 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.
- 4) Describe special emergency services that might be required.
- 5) Proposed measures to reduce or control environmental health hazards, if any:

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? N/A

- 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. N/A

- 3) Proposed measures to reduce or control noise impacts, if any: N/A

Noise regulated
by BCC 9.18

8. Land and shoreline use

- 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. [\[help\]](#)
Adjacent sites are single family homes and a greenbelt; no impact anticipated to adjacent sites

- b. Has the project site been used as working farmlands or working forest lands? If 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 nonfarm or nonforest use? [\[help\]](#)

N/A

- 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:

N/A

- c. Describe any structures on the site. [\[help\]](#) Single family house
- d. Will any structures be demolished? If so, what? [\[help\]](#) N/A
- e. What is the current zoning classification of the site? [\[help\]](#) R-3.5 (residential)
- f. What is the current comprehensive plan designation of the site? [\[help\]](#) N/A
- g. If applicable, what is the current shoreline master program designation of the site? [\[help\]](#) N/A
- h. Has any part of the site been classified as a critical area by the city or county? If so, specify. [\[help\]](#) Yes, due to steep slopes
- i. Approximately how many people would reside or work in the completed project? [\[help\]](#) 4
- j. Approximately how many people would the completed project displace? [\[help\]](#) 0
- k. Proposed measures to avoid or reduce displacement impacts, if any: [\[help\]](#) N/A
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [\[help\]](#) N/A
- m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any: N/A

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. [\[help\]](#) N/A
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. [\[help\]](#) N/A
- c. Proposed measures to reduce or control housing impacts, if any: N/A

10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? [\[help\]](#) N/A
- b. What views in the immediate vicinity would be altered or obstructed? [\[help\]](#) N/A
- c. Proposed measures to reduce or control aesthetic impacts, if any: [\[help\]](#) N/A

DW

11. Light and glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur? [\[help\]](#) N/A
- b. Could light or glare from the finished project be a safety hazard or interfere with views? [\[help\]](#) N/A

- c. What existing off-site sources of light or glare may affect your proposal? [\[help\]](#) N/A
- d. Proposed measures to reduce or control light and glare impacts, if any: [\[help\]](#) N/A

12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity? [\[help\]](#)
None
- b. Would the proposed project displace any existing recreational uses? If so, describe. [\[help\]](#)
No
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [\[help\]](#)
N/A

13. Historic and cultural preservation

- 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, specifically describe. [\[help\]](#)
No
- 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. [\[help\]](#) No
- 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 archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc. [\[help\]](#)
N/A
- 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.
N/A

14. Transportation

- 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. [\[help\]](#) N/A
- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop? [\[help\]](#) N/A
- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [\[help\]](#)
N/A

- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private). [\[help\]](#) No
- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. [\[help\]](#) No
- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates? [\[help\]](#) 0-1
- 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. No
- h. Proposed measures to reduce or control transportation impacts, if any: [\[help\]](#) N/A

15. Public services

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe. [\[help\]](#) No
- b. Proposed measures to reduce or control direct impacts on public services, if any. [\[help\]](#) N/A

16. Utilities

- a. Circle utilities currently available at the site: [\[help\]](#)

electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,

 other _____
- 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. [\[help\]](#) None

C. Signature [\[HELP\]](#)

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 Jie Sheng, PE
 Position and Agency/Organization Project Engineer, HomeTech
 Date Submitted: 4/28/15

Critical Areas Vegetation Management Plan

Reference: 15-104159-DC Zhou Tree Cutting

Prepared by Jie Sheng, PE, LEED Green Assoc.



Prepared for City of Bellevue
April 28, 2015

Site Conditions

In general, the lot has steep slopes that grade from the northeast corner towards the southeast corner of the lot with slopes ranging from 20% to 30%. Storm water drains from northeast to southeast, towards the adjacent greenbelt. The area of proposed restoration is located at the northwest end of the lot located at 6121 145th PL SE (see Appendix B for site plan). There is an existing natural drainage path located approximately 10 feet from the edge of the parcel's western boundary. All proposed vegetation work will occur outside of the 25-foot critical area buffer width.

Existing soil onsite is dry to damp. A hydrology assessment per the City of Bellevue Critical Areas Handbook was conducted on March 28, 2015. See Appendix D for photos of the hydrology assessment. No water was squeezed from the soil sample, suggesting dry to damp soil conditions.

The north facing slope west of the existing rockery is vegetated by invasive species Robert's geranium, and English ivy, as well as native species including sword ferns, a big-leaf maple tree and a Douglas fir tree. The existing vegetation mimics that of the adjacent greenbelt. Onsite vegetation is generally limited to the west side of the existing rockery, and the perimeter of the area to be restored. The area just east of the rockery is generally bare, with dry to damp exposed topsoil and rock. The site is part sun, part shade, with the majority of the area to be restored in the shade. Existing soil is not overly compacted, and removal of topsoil reveals dark brown to black soil, suggesting soil with plenty of organic material. See Appendix E for photos of existing vegetation.

The area of proposed restoration is a geologically hazardous area, with steep slopes. Steep slopes commonly have fragile, erodible soils. The existing vegetation has value in helping with erosion control of the slope, and protection of the adjacent greenbelt. The addition of native plants with drought tolerance and soil-binding characteristics will help increase the chance of success of establishment of plants on steep slopes, and decrease the potential for erosion.

Site history

There is an existing single-family residence located on site. The residence was built in 1981. No significant rebuilds or remodels have occurred. Two existing fir trees were cut down in the area of proposed restoration.

Plan Objectives

The objectives of this Vegetation Management Plan is to establish plants that will thrive in this mostly shade, damp to dry, steep slope site that will help decrease the potential for erosion, and inhibit the reestablishment of invasive species.

All planting templates and plant selection shall be in accordance to the City of Bellevue Critical Areas Handbook templates. The existing Douglas fir on the north side of the area of proposed restoration will be removed. Drought tolerant native species will be planted in accordance with planting template A1-Shade, and E2-Shade. Plant selection shall be based on the A1 and E2 Plant Legends for Shady Sites. Since the site has existing invasive species, planting template E2 will be used in conjunction with template A1 to inhibit reestablishment and the spread of invasive species. See Appendix C for planting templates and plant legends.

Existing Sensitive Features

The existing steep slope and the adjacent greenbelt are sensitive features that will be better protected with the implementation of this plan.

Important Species

No important species have been identified on this site.

Allowed work windows

Due to erosion concerns and the existing steep slope, work shall occur during the dry season only (May-August).

Clear delineation of area within which clearing and other vegetation management practices are allowed are shown on the site plan in Appendix B.

Short and long term management prescriptions (removal/restoration):

Prior to installation, the planting area shall be clear of invasive weeds. Existing soil seems to be of high quality – no soil amendments are proposed. Adequate watering shall be provided until newly installed plants have established their root systems. This generally takes three to five years. No permanent irrigation system shall be established, and should not be required for native species to thrive past the root establishment phase.

Critical Areas Vegetation Plan
15-104159 DC

Installed plant shall be weeded regularly by hand in order to maintain at minimum a 24-inch diameter circle around the stem. Pesticides shall not be used.

All restoration shall be monitored over a period of at least five years. The following shall be tracked and recorded:

1. Survival of planted vegetation
2. Percent cover of planted vegetation
3. Diversity of planted vegetation
4. Percent cover of non-native/invasive weeds

All proposed plantings are species that are native to the area, and will thrive in this site. Plants are chosen based on their drought tolerance and soil-binding conditions, which will help their establishment on this dry/damp, steep slope site. Plants chosen also thrive in mostly shade. Native species should inhibit spread of invasive species. New plantings will not diminish the function or value of the area, but will actually improve erosion control.

Critical Areas Vegetation Plan
15-104159 DC

Appendix A

Site Evaluation Worksheet

SITE EVALUATION WORKSHEET

This worksheet is designed to record site information. Using your **existing site plan** as a guide, record **site conditions** according to your observations and keep an account of all seasonal and daily changes that you have noticed.

STEP 1: Complete Table 1 below by checking the boxes that best describe the conditions on your site.

TABLE 1. SITE ASSESSMENT TABLE

HYDROLOGY	<input checked="" type="checkbox"/> Dry	<input type="checkbox"/> Wet	
LIGHT	<input type="checkbox"/> Sun	<input checked="" type="checkbox"/> Shade	
TOPOGRAPHY	<input type="checkbox"/> Flat	<input type="checkbox"/> Slope	<input checked="" type="checkbox"/> Steep Slope
ASPECT	<input type="checkbox"/> South-facing	<input checked="" type="checkbox"/> North-facing	
EXISTING VEGETATION	<input type="checkbox"/> None (bare ground)	<input type="checkbox"/> Lawn	<input type="checkbox"/> Ornamental/ formal landscape
	<input checked="" type="checkbox"/> Invasive weeds*	<input checked="" type="checkbox"/> Existing native plants	

* Refer to *Chapter 2: Existing Vegetation* for more information

STEP 2: Fill out the project information below.

Using the check boxes above, circle your **Site Conditions** and **Critical Area**. If you are restoring more than one site, use a separate worksheet for each site. Larger sites may need more than one **assessment**. You may select more than one condition and/or critical area type below.

Then, combine your answer in **Critical Area** and **Site Conditions** - this is your **Overall Site Assessment**. Now you know which planting template best fits your site! Refer to the Table of Templates on the reverse side of this worksheet.

Jie Sheng, PE, LEED

Project Contact: Green Assoc. Phone number: (425) 444-9740

Project Location: 6121 145th PL SE

Permit Number (if any): 15-104159 DC Date: Feb. 5, 2015

Critical Area Type (circle): Geological Hazard (Steep Slope), Shoreline / Wetland and Wetland Buffer/ Stream Buffer

Site Conditions (circle all that apply): Sun/ Shade/ Invasives on a wet site/ Invasives on a dry site

Overall Site Assessment: Step Slope + Shade/Invasives on dry site
(Critical Area Type) (Site Conditions)

Use your **Overall Site Assessment** from the previous page to pick your template:

TABLE OF TEMPLATES					
		SITE CONDITIONS			
		Main Template		Supplemental Templates**	
CRITICAL AREA		Sun	Shade	Invasive Weeds (Dry Sites)	Invasive Weeds (Dry Sites)
CRITICAL AREA	A. Geological Hazard	A1	A1*	E1	E2
	B. Shorelines				
	1. Naturalistic	B1	B1*	E1	E2
	2. View Sensitive	B2	B2*		
C. Wetlands					
1. Naturalistic	C1	C1*	E1	E2	
2. View Sensitive	C2	C2*			
D. Stream and Stream Buffer					
1. Gentle Slope	D1	D1*	E1	E2	
2. Gradual Slope	D2	D2*			
3. Steep Slope	D3	D3*			
4. Terraced	D4	D4*			

* Each Template is designed for sun and shade. Use the shade legend provided on the reverse side of the sun legend.

**Templates have been created for sites with invasive species. These templates include plants that will establish quickly in order to provide shade that will help inhibit invasive species reestablishment. These templates are intended to be used in conjunction with the main template for your critical area for areas where invasive species are present.

Appendix B

Site Plan

EXISTING NATURAL DRAINAGE PATH

15% TO 25% SLOPE

EXISTING ROCKERY WALL (2' TO 3' TALL)

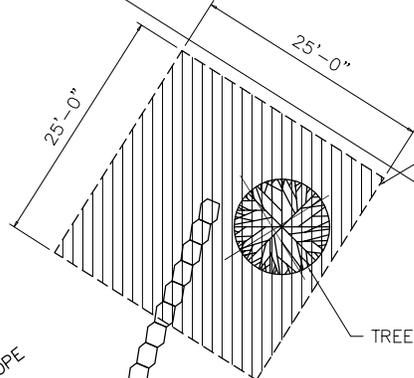
LOWER DECK

DECK

6121

DRIVEWAY

145TH PL SE

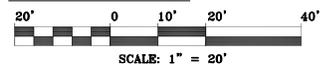


PLANTING TO BE INSTALLED ACCORDING TO CITY OF BELLEVUE CRITICAL AREAS HANDBOOK PLANTING TEMPLATE A1 AND E2, AS OUTLINED IN THE ASSOCIATED CRITICAL AREAS VEGETATION MANAGEMENT PLAN.

TREE TO BE REMOVED



SITE PLAN



Appendix C

Steep Slope Planting Template and Plant Legend for
Shady Sites

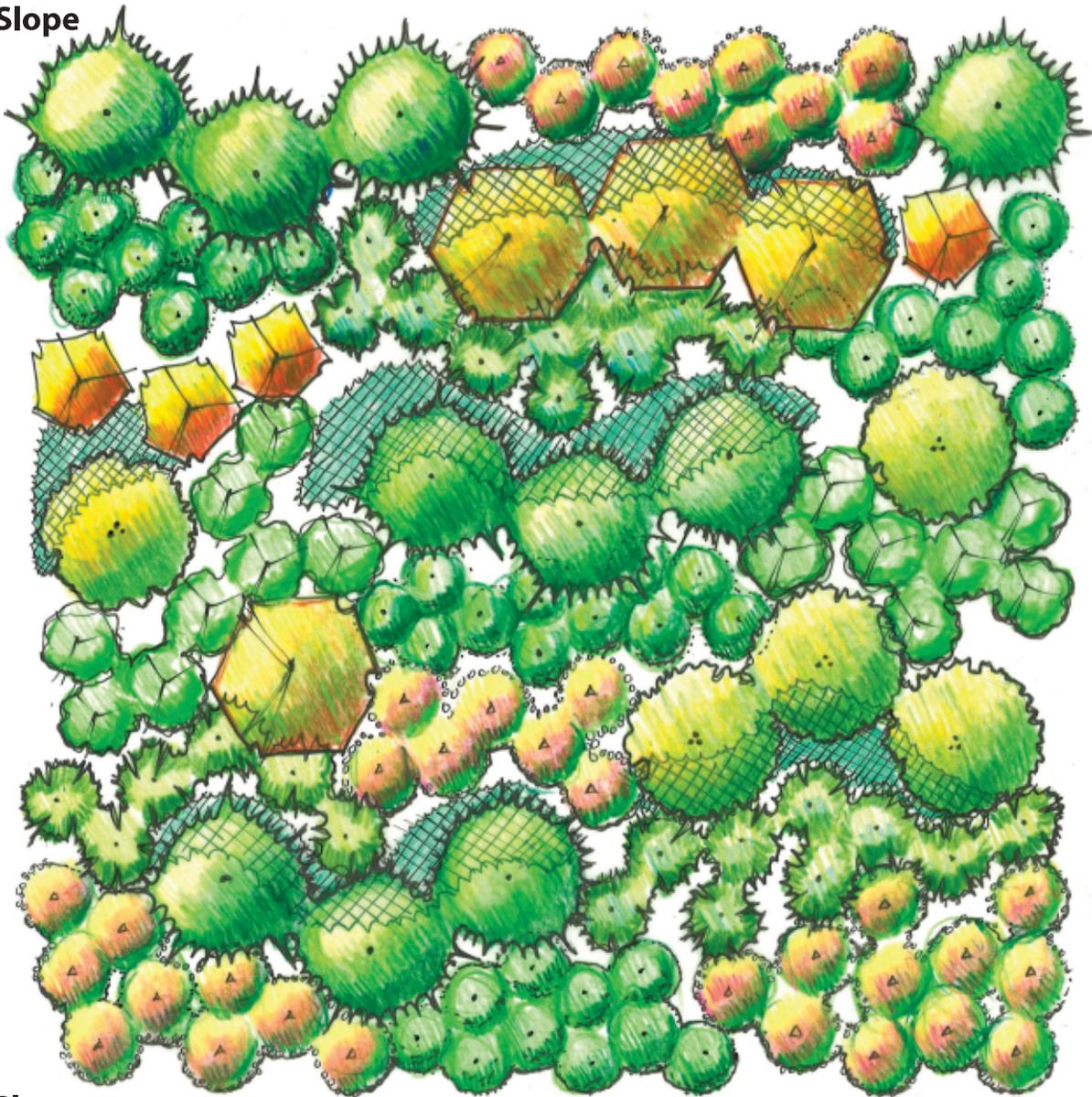
Dry Sites with Invasive Weeds Planting Template and
Plant Legend for Shady Sites

(Templates from City of Bellevue Critical Areas
Handbook Appendix A and E)

GEOLOGICAL HAZARDS (STEEP SLOPE) PLANTING TEMPLATE

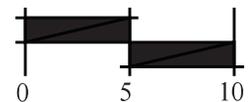
60' X 60' TYPICAL PLANTING

Top of Slope



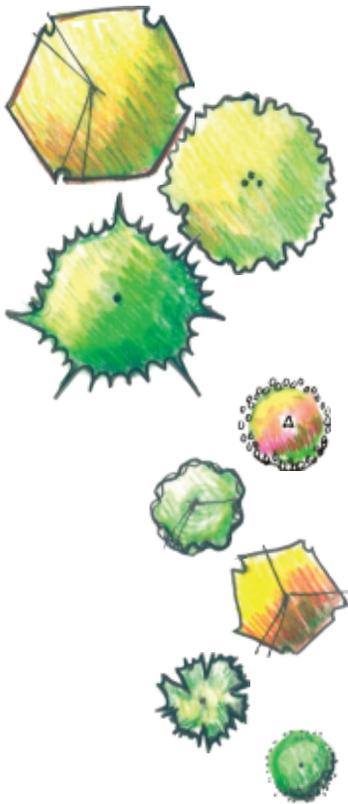
Toe of Slope

SCALE 1"=10'



Steep slopes commonly have fragile, erodible soils. Planting can be difficult to establish in these areas as gravity, wind, and rain have a tendency to pull nutrient-rich soil down the slope. In addition, sunny sites require drought-tolerant plants, while both sunny and shady sites require plants with strong, root systems to keep soil intact. On the next two pages you will find one legend designed for sunny, steep sites and one designed for shady, steep sites. The plants chosen for these templates are known for drought tolerance and soil-binding characteristics. With the successful establishment of plants on steep slopes, the potential for erosion decreases. For additional information on Steep Slopes, refer to the section on *Geological Hazard Areas* in *Chapter One* and the City's *Critical Areas Ordinance*. Note, these templates are to be used for stable and undisturbed sloping sites. If your site has experienced a landslide or substantial erosion, do not use this template; consult a professional.

PLANT LEGEND FOR SHADY SITES



LATIN NAME/ COMMON NAME

TYPICAL SPACING/ AVERAGE HEIGHT

CHARACTERISTICS

TREES

Acer macrophyllum/
Big-leaf maple

9 feet on center/
75 feet

Yellow fall color, provides
understory shade, largest leaf
of all maples

Alnus rubra/
Red alder

9 feet on center/
60 feet

Vigorous grower, provides
cover quickly for other plants

Thuja plicata/
Western red cedar

9 feet on center/
150 feet

Fragrant, adaptable to many
sites

SHRUBS

Acer circinatum/
Vine maple

4.5 feet on center/
20 feet

Bright red fall color, small
understory tree, grows
well in shade

Amelanchier alnifolia/
Western serviceberry

4.5 feet on center/
20 feet

Fragrant flowers, edible red to
purple berries

Corylus cornuta/
Beaked hazelnut

6 feet on center/
11 feet

Edible acorn, wildlife food,
small understory tree, yellowish
fall color

Oemleria cerasiformis/
Osoberry

4.5 feet on center/
10 feet

Berries attract birds, first shrub
to leaf out in spring

Sambucus racemosa/
Red elderberry

4 feet on center/
15 feet

Edible berries, fast grower,
graceful form with age

GROUNDCOVERS & PERENNIALS

Arctostaphylos uva-ursi/
Kinnikinnick

*24 in. on center/
6-8 in.

Evergreen groundcover, great
for rockeries and full sun areas

Asarum caudatum/
Wild ginger

*24 in. on center/
6-8 in.

Tough groundcover, great for
planting under shrubs and
trees

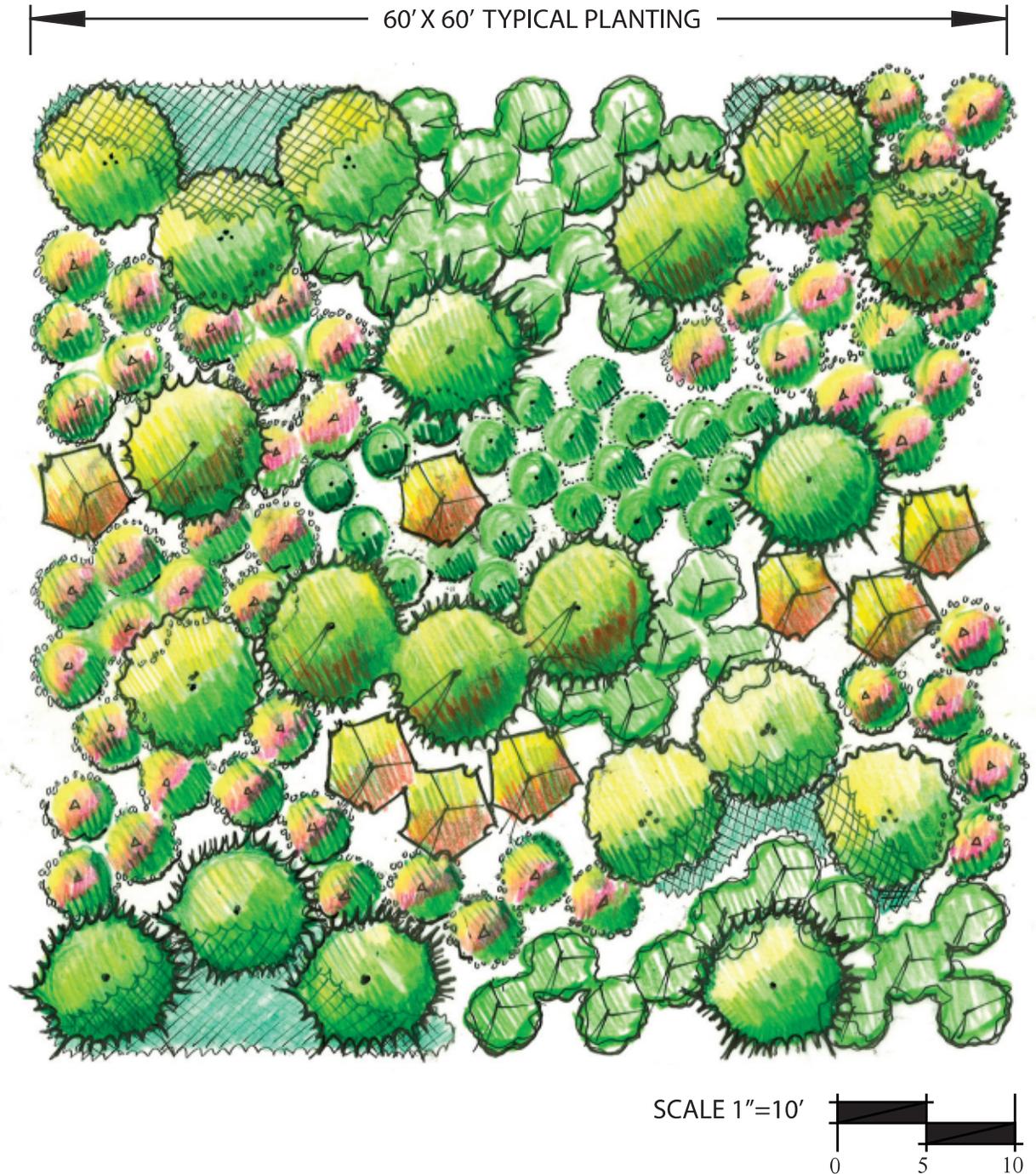
Polystichum munitum/
Sword fern

*24 in. on center/
5 feet once mature

Semi-evergreen fern, highly
adaptable

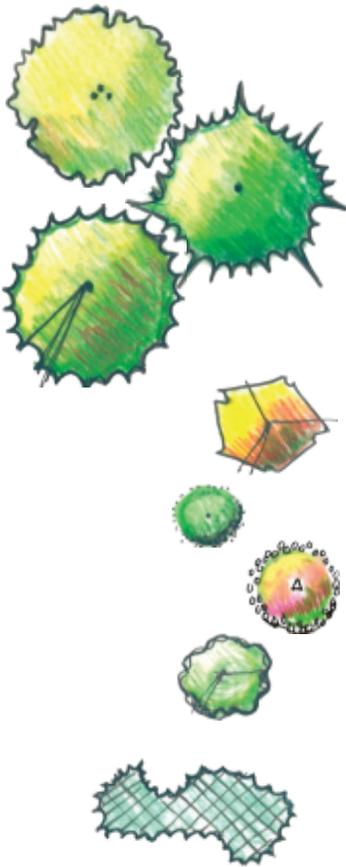
* Indicates plants are to be triangularly spaced for the area shown. See page 23 for triangular spacing.

DRY SITES WITH INVASIVE WEEDS PLANTING TEMPLATE



Like wet sites, invasive weeds can be found on dry sites, too. Common invaders include Himalayan blackberry, English ivy, Scotch broom, Japanese knotweed, and birdsfoot trefoil to name a few. As mentioned in the previous template, once you have removed the invasive species (see *Chapters Two and Four* for further information), the best way to prevent reoccurrence is through a dense planting that will shade out the invasives. While shade cover is being established, invasives will need ongoing maintenance (See *Chapter Five, Maintenance and Monitoring*). The plants chosen for this template have been selected for their tolerance of dry sites and their ability to establish quickly, providing necessary shade cover.

PLANT LEGEND FOR SHADY SITES



LATIN NAME/ COMMON NAME

TYPICAL SPACING/ AVERAGE HEIGHT

CHARACTERISTICS

TREES

Alnus rubra/
Red alder

9 feet on center/
60 feet

Vigorous grower, provides cover quickly for other plants

Pseudotsuga menziesii/
Douglas-fir

9 feet on center/
150 feet

Highly adaptable, fast grower

Thuja plicata/
Western red cedar

9 feet on center/
125 feet

Fragrant, adaptable to many sites

SHRUBS

Oemleria cerasiformis/
Osoberry

4.5 feet on center/
10 feet

Berries attract birds, first shrub to leaf out in spring

Mahonia aquifolium/
Tall Oregon grape

3.5 feet on center/
5 feet

Yellow flowers in Spring; edible dark purple berries

Ribes sanguineum/
Red-flowering currant

4.5 feet on center/
6 feet

Big reddish pink blossom in spring, bluish-black berries

Sambucus racemosa/
Red elderberry

4.5 feet on center/
15 feet

Edible berries, fast grower, graceful form with age

GROUNDCOVERS & PERENNIALS

Polystichum munitum/
Sword fern

*24 in. on center/
5 feet once mature

Semi-evergreen fern, highly adaptable

* Indicates plants are to be triangularly spaced for the area shown. See page 23 for triangular spacing.

Appendix D

Hydrology Assessment

Critical Areas Vegetation Plan
15-104159 DC

Hydrology assessment conducted on March 28, 2015



Golf-ball sized sample at 4 to 6 inches below surface



No water squeezed from sample – soil is dry to damp

Appendix E

Existing Site Vegetation Photos

Critical Areas Vegetation Plan
15-104159 DC

Photos taken on March 28, 2015



Area of vegetation management, as delineated on the site plan (Appendix B)



Area south of area of vegetation management

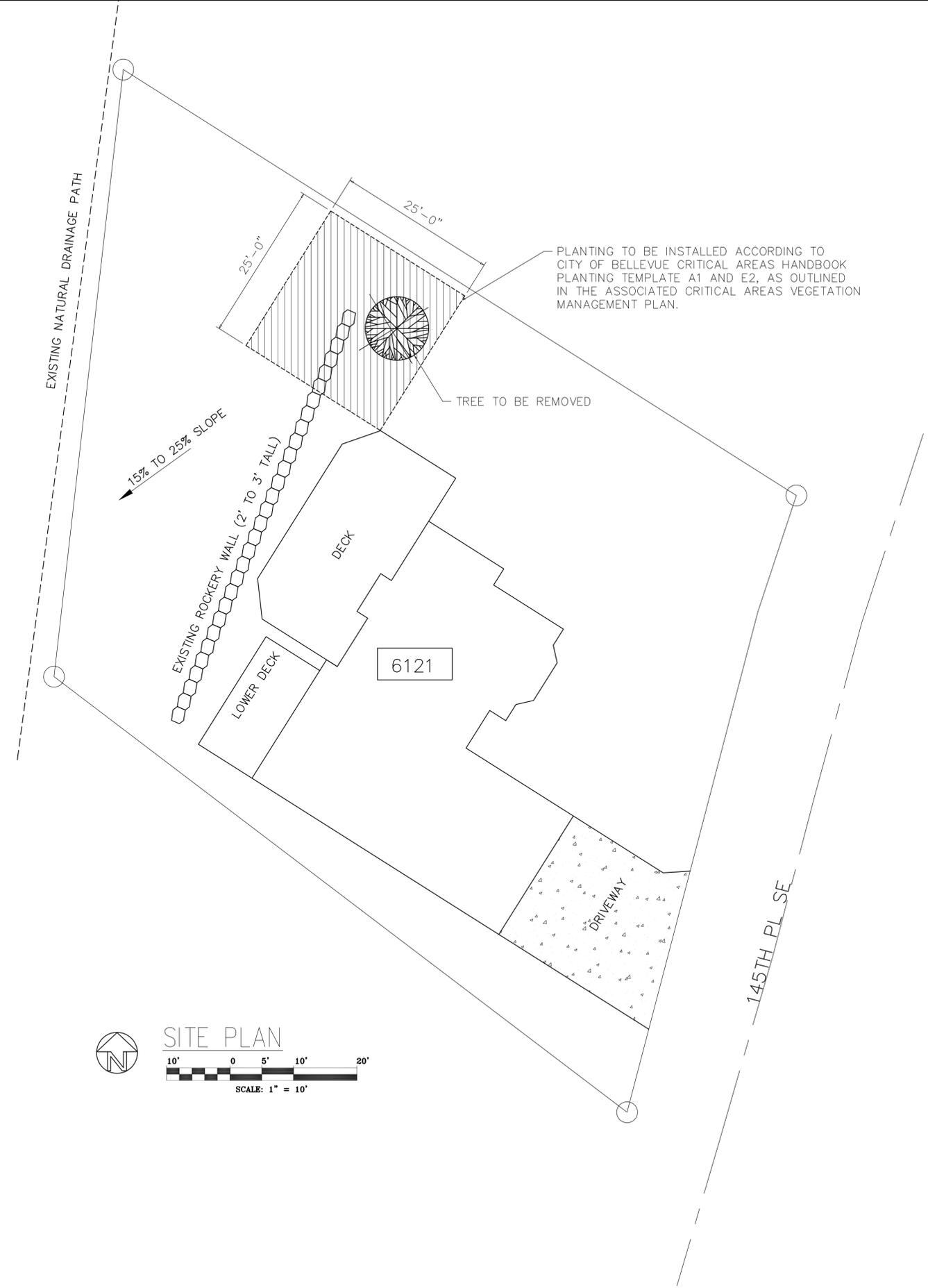
Critical Areas Vegetation Plan
15-104159 DC



Existing tree to be removed



Existing English Ivy at base of tree to be removed



PLANTING TO BE INSTALLED ACCORDING TO CITY OF BELLEVUE CRITICAL AREAS HANDBOOK PLANTING TEMPLATE A1 AND E2, AS OUTLINED IN THE ASSOCIATED CRITICAL AREAS VEGETATION MANAGEMENT PLAN.

TREE TO BE REMOVED

15% TO 25% SLOPE

SLOPE

EXISTING NATURAL DRAINAGE PATH

EXISTING ROCKERY WALL (2' TO 3' TALL)

DECK

LOWER DECK

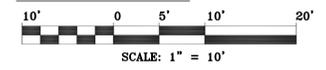
6121

DRIVEWAY

145TH PL SE



SITE PLAN



SITE PLAN FOR PLANTING RESTORATION

**TERRY ZHOU RESIDENCE
 6121 145TH PL SE, BELLEVUE, WA 98006**

REVISIONS DATE

DESIGN: Y. S.

DRAWING: H. H.

CHECK: Y. S.

DATE: APR 27, 2015

SCALE: AS SHOWN

SHEET:

A1