



DEVELOPMENT SERVICES DEPARTMENT  
ENVIRONMENTAL COORDINATOR  
450 110<sup>th</sup> 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. 13-104260-LO  
Project Name/Address: South Bellevue Community Center Zip-Line  
Eastgate Park - 14509 SE Newport Way  
Planner: Kevin LeClair  
Phone Number: 425-452-2928

**Minimum Comment Period: February 7, 2013**

Materials included in this Notice:

- Blue Bulletin
- Checklist
- Vicinity Map
- Site Plans
- Other: Habitat Assessment

Project reviewed under  
Bellevue file # 13-104260-LO  
Reviewer: Kevin LeClair  
425-452-2928  
kleclair@bellevuewa.gov

**WAC 197-11-960 Environmental checklist.**

ENVIRONMENTAL CHECKLIST

*Purpose of 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 agency 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." Complete answers to the questions now may avoid unnecessary delays later.

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

*Use of checklist for nonproject proposals:*

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

South Bellevue Community Center Zipline / Aerial Tour Project

2. Name of applicant: City of Bellevue Parks & Community Services

3. Address and phone number of applicant and contact person:

Scott VanderHyden

425-452-4169

svanderhyden@bellevuewa.gov

450 110th Ave NE

PO Box 90012

Bellevue, WA 98009

4. Date checklist prepared: November 29, 2012

5. Agency requesting checklist: City of Bellevue

6. Proposed timing or schedule (including phasing, if applicable):

Design and permitting: end of 2012

Out to bid: end of 2012/beginning of 2013

Construction: 2013

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

There are no plans for future additions, expansion, or further activity related to or connected with this proposal.

Reviewed by Kevin LeClair  
01/22/2013

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.  
A Habitat Assessment Report, dated November 28, 2012, was prepared by Skillings Connolly, Inc.

The trees within the project area and those to be used as structural elements of the zipline were evaluated by a certified arborist.

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.

There are no applications pending for government approvals of other proposals directly affecting our property.

10. List any government approvals or permits that will be needed for your proposal, if known.

A City of Bellevue Critical Areas Land Use Permit (LO) and Clearing & Grading in Critical Areas Permit (GH) will be needed for our proposal.

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.)

The project consists of six zipline elements, two bridge elements, and one ramp element. The bridge and zipline elements are interconnected by elevated platforms structurally anchored to existing trees. The length of the zipline runs range from 100 feet to 450 feet. Two bark chip paths will also be constructed to provide access to and from the zipline course. The project requires minimal removal and snagging of existing trees on-site.

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.

The project is located in Bellevue, WA in Section 15, Township 24N, Range 5E. The zipline course is being constructed within Bellevue's Eastgate Park, on Tracts C and D of Bellevue Short Plan Number 76-57. A legal description, site plan, vicinity map, and topographic map have been provided in the permit documents submitted to the City of Bellevue.

TO BE COMPLETED BY APPLICANT

EVALUATION FOR  
AGENCY USE ONLY

B. ENVIRONMENTAL ELEMENTS

1. **Earth**

- a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other . . . . .

- b. What is the steepest slope on the site (approximate percent slope)?

66%

- 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 prime farmland.

The site is heavily forested and comprised primarily of gravelly sandy loam soils.

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

A large portion of the site is comprised very steep slopes (greater than 40%).

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

There is no proposed filling or grading associated with the project. Medium bark chips will be used to construct two paths that provide access to and from the zipline course.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

The project proposes removing three trees. The stumps associated with the trees to be removed will be left in place. Waste tree material resulting from removal will be left on the ground for natural decomposition in a safe manner. No erosion is anticipated due to tree removal.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

There are no proposed impervious surfaces associated with the project.

An Construction Stormwater Pollution Prevention Plan is required to be submitted for review along with the Clearing and Grading Permit.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Access to each zipline platform construction area will be limited to foot traffic only. Two bark chip paths will also be constructed to provide access to and from the zipline course. Trees that do not require removal will be snagged.

a. **Air**

- a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Trucks delivering construction materials to the designated staging area will produce the only emissions to the air during construction.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

There are no off-site sources of emissions or odor that may affect our proposal.

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Not applicable.

**3. Water**

## a. Surface:

- 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.

There are no surface water bodies on or in the immediate vicinity of the site.

There is a Type F stream, Sunset Creek, flowing from south to north along the east boundary of the park, over 800 feet away from the proposed zipline.

- 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.

Not applicable.

- 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.

Not applicable.

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

The proposal does not require surface water withdrawals or diversions.

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

The proposal does not lie within a 100-year floodplain.

- 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.

The proposal does not involve any discharges of waste materials to surface waters.

## b. Ground:

- 1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

Ground water will not be withdrawn, nor will water be discharged to ground water.

- 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.

Waste material will not be discharged into the ground from septic tanks or other sources.

## 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.

Storm water flow patterns will not be altered or disrupted as a result of our proposal.

- 2) Could waste materials enter ground or surface waters? If so, generally describe.

No.

## d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

Not applicable.

## 4. Plants

## a. Check or circle types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, other  
 evergreen tree: fir, cedar, pine, other  
 shrubs  
 grass  
 pasture  
 crop or grain  
 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?

Three deciduous trees (Big Leaf Maple) will be removed (as described in Section B.1.F.) and five will be snagged at 15 feet or less.

## c. List threatened or endangered species known to be on or near the site.

There are no threatened or endangered species known to be on or near the site.

## d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

There are no proposed plants associated with the project.  
 Medium bark chips will be used to construct two paths that provide access to and from the zipline course.

## 5. Animals

## a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: hawk, heron, eagle, songbirds, other: Robin, Crow, Woodpecker, Sparrow

mammals: deer, bear, elk, beaver, other: Bats (Myotis, Plecotus)

fish: bass, salmon, trout, herring, shellfish, other:

## b. List any threatened or endangered species known to be on or near the site.

There are no threatened or endangered species known to be on or near the site.

- c. Is the site part of a migration route? If so, explain.  
**The site is not part of a migration route.**

- d. Proposed measures to preserve or enhance wildlife, if any:  
**Note applicable.**

**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.  
**Not applicable.**

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.  
**Our project will not affect the potential use of solar energy by adjacent properties.**

- 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:  
**Not applicable.**

**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.  
**There are no environmental health hazards that could occur as a result of this proposal.**

- 1) Describe special emergency services that might be required.  
**Not applicable.**

- 2) Proposed measures to reduce or control environmental health hazards, if any:  
**Not applicable.**

**b. Noise**

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?  
**Not applicable.**

- 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.  
**Minimal noise associated with the operation of the ziplines would be created during normal business hours.**

- 3) Proposed measures to reduce or control noise impacts, if any:  
Not applicable.

**8. Land and shoreline use**

- a. What is the current use of the site and adjacent properties?  
The Bellevue Challenge Course (BCC) and South Bellevue Community Center currently occupy the site. An existing housing development is adjacent to the southwest corner of the site.
- b. Has the site been used for agriculture? If so, describe.  
The site has not been used for agriculture.
- c. Describe any structures on the site.  
Existing BCC structures existing on-site as well as an associated shed structure.
- d. Will any structures be demolished? If so, what?  
There is no structural demolition associated with the project.
- e. What is the current zoning classification of the site?  
The current zoning classification is R-5 (Single-family Residential).
- f. What is the current comprehensive plan designation of the site?  
The current comprehensive plan designation is High Density (up to 5 units per acre). Comprehensive plan designation is Park/Single-family High-Density.
- g. If applicable, what is the current shoreline master program designation of the site?  
Not applicable.
- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.  
No. Stream critical area, Steep slope critical area, Habitat associated with species of local importance.
- i. Approximately how many people would reside or work in the completed project?  
There will be no residents in the completed project. Tour guides associated with the completed project will work on-site on a day-to-day basis.
- j. Approximately how many people would the completed project displace?  
None.
- k. Proposed measures to avoid or reduce displacement impacts, if any:  
Not applicable.

1. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:  
**Not applicable.**

**9. Housing**

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.  
**None.**
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.  
**None.**
- c. Proposed measures to reduce or control housing impacts, if any:  
**Not applicable.**

**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?  
**Platforms elevations vary. Platforms are located below the tree canopies and will not alter or obstruct views in the immediate vicinity.**
- b. What views in the immediate vicinity would be altered or obstructed?  
**None.**
- c. Proposed measures to reduce or control aesthetic impacts, if any:  
**Not applicable.**

**11. Light and glare**

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?  
**None.**
- b. Could light or glare from the finished project be a safety hazard or interfere with views?  
**Not applicable.**
- c. What existing off-site sources of light or glare may affect your proposal?  
**None.**
- d. Proposed measures to reduce or control light and glare impacts, if any:  
**Not applicable.**

**12. Recreation**

- a. What designated and informal recreational opportunities are in the immediate vicinity?  
**The Bellevue Challenge Course at Eastgate Park and the South Bellevue Community Center are located on-site and provide designated recreational opportunities. Informal opportunities include walking, hiking, etc.**
- b. Would the proposed project displace any existing recreational uses? If so, describe.  
**No.**
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:  
**The project provides additional recreational opportunities.**

**13. Historic and cultural preservation**

- a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.  
**No.**
- b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.  
**There are no landmarks or evidence of historic, archaeological, scientific, or other cultural importance known to be on or next to the site.**
- c. Proposed measures to reduce or control impacts, if any:  
**Not applicable.**

**14. Transportation**

- a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.  
**The site is accessed via an existing drive off of SE Newport Way. The existing drive provides access to parking lots associated with the Bellevue Challenge Course at Eastgate Park and the South Bellevue Community Center. Pedestrians access to the site is also available off of 146th Ave SE.**
- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?  
**Yes. King County Metro Transit currently services the site.**
- c. How many parking spaces would the completed project have? How many would the project eliminate?  
**The project does not propose any new parking spaces, nor does it eliminate any.**
- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).  
**No.**



# HABITAT ASSESSMENT REPORT

---

## Bellevue Community Center South Eastgate Park

Bellevue, WA

Prepared by:  
Skillings Connolly, Inc

November 28, 2012



## Table of Contents

---

Introduction .....	2
Objectives .....	2
Methodology.....	4
Habitats.....	4
Vegetation .....	5
Wildlife.....	5
Noxious and Non-native Vegetation .....	7
Management Recommendations.....	7

### Tables

Table 1. Vegetation Species Observed During Survey.....	5
Table 2. Avian Species Observed During Field Survey .....	6
Table 3. Amphibians Observed During Field Survey.....	7

### Exhibits

Exhibit 1 .....	3
-----------------	---

## Introduction

---

The Bellevue Challenge Course at Eastgate Park, nestled on a hillside above South Bellevue Community Center (BCC) and tucked among the firs, cedars and broad-leaf maples, is comprised of three independent elements: a high course, low course and vertical play pen. These elements are the tools used in a series of activities designed to improve the performance and cohesiveness of any group through a combination of teamwork, communication and individual problem-solving. Up to six new zip lines are proposed within Eastgate Park. The purpose of this Habitat Assessment is to determine the habitat available within the park and to determine possible impacts to the habitat and species present within the habitat due to development of the proposed Zip Tours.

As part of the proposed development within Eastgate Park, the City of Bellevue requested Skillings Connolly, Inc. to provide a habitat assessment of Eastgate Park. Skillings Connolly conducted a habitat assessment survey on September 20, 2012, to evaluate and inventory wildlife and to provide management recommendations for existing habitat types located within Eastgate Park. As outlined in this report, the Zip Tours are not expected to have a significant effect on wildlife or habitat within the BCC or Eastgate Park.

### *Project Settings*

The BCC and Eastgate Park are situated within the City of Bellevue (pop. 117,000), King County Washington. The BCC and Eastgate Park are surrounded by urbanization and are within 0.6 miles of the highly developed Interstate 405 corridor (Exhibit 1: Vicinity Map). The study area encompasses Eastgate Park, located adjacent to the BCC, and is located within Township 24 North, Range 05 East, Section 15.

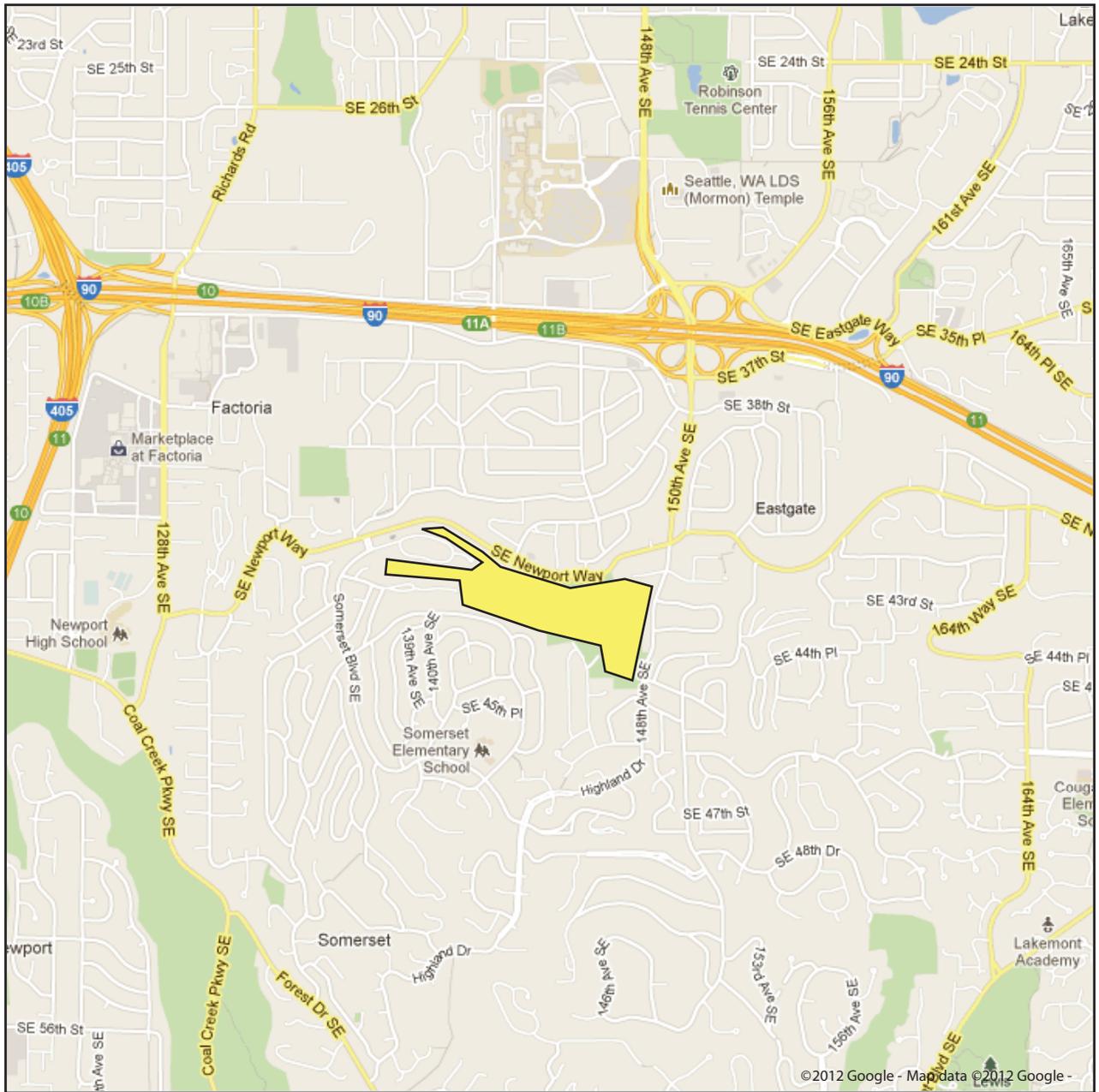
The topography of site is can be classified as a steep hillside. No streams or wetlands are mapped within the vicinity of the site and none were observed during the field visit.

## Objectives

---

The objectives of the habitat assessment are as follows:

- Create and/or update site inventory of habitat common to Eastgate Park, paying particular attention to the identification of priority and/or keystone species.
- Identification and description of habitat-types represented in Eastgate Park and a portrayal of each habitat type in terms of attributes, constraints, and potential opportunities for restoration and/or enhancement.
- Develop list/matrix of species of local importance (as listed in the Bellevue Municipal Code).



Eastgate Park



## Methodology

---

Wildlife and habitat surveys were conducted on September 20, 2012, between the hours of 10:00 and 15:30. Initially the weather was overcast but turned to sun breaks by the afternoon. Temperatures during the survey ranged from 55<sup>o</sup> to 72<sup>o</sup> Fahrenheit.

Terrestrial surveys were conducted by: 1) meandering through the park on and off trail noting habitat types and species present (plant and animal); 2) observing the ground for tracks; 3) overturning large woody debris, and, 4) listening for auditory clues of species present but not readily visible.

In addition to the physical survey of Eastgate Park, information was collected from reviewing the following documents for information on vegetation, topography, sensitive species, and habitats in the project vicinity.

- U.S. Geologic Survey (USGS) 7.5 minute topographical map
- USFWS National Wetlands Inventory mapping
- Priority Habitat and Species Maps
- Endangered Species Act lists from USFWS and NOAA
- DNR Natural Heritage Program mapping
- City of Bellevue Critical Areas Ordinance
- King County Noxious weed list

## Habitats

---

Eastgate Park consists of one major habitat type, defined as a Westside Lowland Conifer-Hardwood forest. This forested area is mainly dominated by Big leaf maple and Douglas fir, with Western Red Cedar.

Typical northwest forests are mainly dominated by Douglas Fir. This is primarily a result of past logging practices that included replanting Douglas fir as the only species. However, the BCC is unique in the sense it was logged in the early 1900's but was never replanted and left to restore naturally. Furthermore, many snags and downed woody debris have been left as key habitat components. Bull (2002) mentions that snags and downed woody debris is a critical portion of a diverse forest. Thomas (1979) found over 57 percent of the vertebrates in Pacific Northwest forest associate with snags and downed woody debris. This forested stand appears to be in a late pioneering stage of succession, with large hardwoods being the dominant tree species. Evidence of logging was apparent by the presence of conifer stumps, with at least one having evidence of spring board slots, indicating that it was logged prior to the 1940's (pre-chainsaw).

No species of local importance (BMC 20.25H.150-165) was observed in the forested habitat; however, evidence of pileated woodpecker was noted within the park. In addition, the forested area most likely supports species of local importance such as bald eagle perching habitat, red-tailed hawk perching and foraging habitat, and year round habitat for bats (*Myotis* and *Plecotus* spp.). Personal communication with Scott Andrews (September 20, 2012 - Northwest Teambuilding), representing the Challenge Course concessionaire, indicated that Bald eagle and Red-tailed hawks have been observed flying over Eastgate

Park. Several large cavities were observed in standing snags that have the potential to support bat populations.

## Vegetation

---

The following vegetation was observed during the survey. It is important to note that there is likely more species present but because of the time of year the survey was conducted, some vegetation may still have dies back and/or is unidentifiable. This includes bleeding heart and false-lily-of-the-valley. No vegetation with sensitive status or local importance was noted during the site visit. The Department of Natural Resources Natural heritage program website was consulted in order to ascertain if any of the native plant communities at Eastgate Park are considered rare. None of the plant communities at the park seemed to match the plant communities recognized by the Natural Heritage Program. The website notes that recognized plant communities tend to be biased toward areas that have been undisturbed by people. Noxious and non-native plants are discussed in a dedicated section on page 7.

**Table 1. Vegetation Species Observed During Survey.**

Douglas Fir	<i>Pseudotsuga menziesii</i>
Western Red Cedar	<i>Thuja plicata</i>
Big leaf Maple	<i>Acer macrophyllum</i>
Oregon Grape	<i>Mahonia nervosa</i>
Sword Fern	<i>Polystichum munitum</i>
Licorice Fern	<i>Polypodium glycyrrhiza</i>
Madrona	<i>Arbutus menziesii</i>
Indian Plum	<i>Oemleria cerasiformis</i>
Holly	<i>Ilex aquifolium</i>
English Ivy	<i>Hedera helix</i>
Trailing Blackberry	<i>Rubus ursinus</i>
Red Huckleberry	<i>Vaccinium parvifolium</i>
Lady fern	<i>Athyrium filix-femina</i>
Thimbleberry	<i>Rubus parviflorus</i>
Stinging nettle	<i>Urtica dioica</i>
Red elderberry	<i>Sambucus racemosa</i>
Salmonberry	<i>Rubus spectabilis</i>
Reed canary grass	<i>Phalaris arundinacea</i>
Vine maple	<i>Acer circinatum</i>

## Wildlife

---

The Washington Department of Fish and Wildlife (WDFW) furnished Skillings Connolly with a Habitat and Species Report for the section, township and range that include Eastgate Park. In addition, U.S. Fish and Wildlife Service and National Marine Fisheries Service Endangered Species Act lists were reviewed to determine the presence of federally threatened or endangered species. No federally or state threatened and endangered species or sensitive species were identified within Eastgate Park. Osprey,

bald eagle and peregrine falcon, all state species of concern, are known to nest in certain locations that are in the vicinity of Eastgate Park.

Avian species were the most abundant within the park (Table 2). No mammals were observed and this is most likely due to the daily presence of human activity and the urban setting that exists outside of the park boundaries. Other wildlife that was not observed but could be present in the park includes owls, opossums, deer, , numerous species of rodents (voles, mice, and rats), skunks, bats, and coyotes. Numerous ground nests (cavities) were observed that are likely used by rodents. Eastern grey squirrels and chipmunks would be expected within this habitat type. The lack of forested corridors linking this area to other habitat areas may explain a lack of available species from the surrounding area. Forested corridors do exist that ultimately connect this habitat to Coal Creek Greenbelt and ultimately Cougar Mountain; however, these corridors are interrupted (bisected) by heavily used paved roads.

Two amphibian species, both terrestrial salamanders, were observed under large woody debris during the site visit. Western red-backed (*Plethodon vehiculum*) and Ensatina (*Ensatina eschscholtzii*) salamanders were observed in multiple locations within the study area. Both species of salamander are terrestrial in nature, laying their eggs in underground cavities or in partially decayed logs. Approximately 75% of the large woody ground debris surveyed contained terrestrial salamander occurrence.

Avian species tolerant of isolated patches of mature forest could use the park as year-round habitat or during migration. This includes many passerines (perching birds) and birds of prey. Because of the time of year the surveys were conducted many potential species present in the summer were not observed.

During the site visit, the majority of avian species diversity was observed within portions of the park with restricted access. Human use of the trail system either masked audible detection of avian species.

Proximity to other critical areas. Based on review of aerial mapping, WDFW PHS mapping, and USFWS NWI mapping, no critical areas are located within the evaluated habitat. The forested portion of Eastgate Park, the focus of this habitat evaluation, is designated as a Biodiversity Area and Corridor. The distant proximity to other critical areas, including wetlands, streams, and riparian corridors limits the availability of priority species from using this habitat.

**Table 2. Avian Species Observed During Field Survey**

American Robin	<i>Turdus migratorius</i>
Bushtit	<i>Psaltriparus minimus</i>
Black-Capped Chickadee	<i>Parus atricapilus</i>
Oregon Junco	<i>Junco hyemalis</i>
American Crow	<i>Corvus brachyrhynchos</i>
Northern Flicker	<i>Colaptes auratus</i>
Pileated Woodpecker	<i>Cryocopus pileatus</i>
House Sparrow	<i>Passer domesticus</i>
Steller's Jay	<i>Cyanocitta stelleri</i>
Hutton's vireo	<i>Vireo huttoni</i>
White-crowned sparrow	<i>Zonotrichia leucophrys</i>
Hairy woodpecker	<i>Picoides villosus</i>

**Table 3. Amphibians Observed During Field Survey.**

Western red-backed Salamander	<i>Plethodon vehiculum</i>
Ensatina Salamander	<i>Ensatina eschscholtzii</i>

## Noxious and Non-native Vegetation

---

English ivy was observed climbing several trees and as the dominant form of groundcover along a majority of the forested area perimeter. This is especially true where the forested area borders the urban environment, characterized by residential development. English ivy has been used as decorative ground cover but has become an ecological threat to native species within the park boundary.

Other non-native species that were observed in very sparse numbers Himalayan blackberry; holly; and reed canary grass. Blackberry and reed canary grasss are both listed as a non-regulated Class B or C species, while holly is a weed of concern on the King County noxious weeds list (King County 2012).

## Management Recommendations

---

Overall, the habitat in the park is fairly diverse. The park also contains habitat features like standing snags, downed woody debris, open spaces and a wide range in tree sizes. The following is a description of the management recommendations.

### Eliminate English Ivy

English ivy should be removed in its entirety, especially where it is climbing up trees. English ivy is a threat to the integrity of the forested area of the park. The large expanses of English ivy should be removed and suppressed. The presence of this non-native species is currently impacting native herbaceous vegetation and the shrub layer. If unrestored, the English ivy will likely spread to the interior of the habitat area and will likely impact larger trees, impacting the canopy layer. This will reduce the value of the habitat and will affect ground and shrub avian species. The ivy can be killed by cutting the vines at the base of the tree then removing the roots in their entirety. Monitoring should be conducted to ensure the ivy does not re-grow.

### Species of Local Importance Recommendations

#### *Pileated woodpecker*

Pileated woodpeckers were not observed in the park, however evidence of nesting and foraging was observed during the field reconnaissance surveys. It appears the BCC is already providing adequate habitat for this species by maintaining snag and stump habitat. Larson et al. (2004) recommends maintaining a sufficient number of large snags and decaying trees for nest and foraging habitat. Larson et al. 2004 also recommends that hard trees with evidence of foraging or nesting cavities should be retained.

#### *Myotis and Plecotus*

No bats were observed during the field survey; however, this was expected since the surveys were conducted during the day and bats are nocturnal. The habitat in the BCCBCC is conducive to bats, especially hibernacula habitat with the abundance of snags with cavities. Furthermore, the wetlands

provide optimum foraging habitat because of insect production from the ponds. There are no specific management plans for bats, but maintaining snags and wetland habitat will help maintain their survival.

#### *Biodiversity Area*

The Management Recommendations and Mitigation outlined in the Bellevue Urban Wildlife Habitat Literature Review (The Watershed Company, 2009) apply to the evaluated habitat at Eastgate Park. Native vegetation removal should be limited to the greatest extent possible. Access to the proposed Zipline Tours should be placed in areas that are currently accessed via improved trails. Any new access points should limit the amount of new trail within the habitat area. Any trees that are removed should be left within the habitat as woody debris, which will ultimately provide additional habitat to terrestrial herpafauna as it decays.

Existing snags should be maintained as they provide foraging and nesting structures. If possible, any trees that need to be removed as part of this project, if not directly under the Zipline should be turned into a snag, rather than completely removing the entire tree. To create a snag, top the tree at or above the first whorl (set of branches). If possible, the top of the cut tree should not be smooth, but left “ragged”, which promotes decay faster. In addition, creation of at least two “cavity starts” should be cut into the side of the created snag that is at least six inches deep and four inches in length. This will allow rot to occur, which will create new cavities. If creation of a snag conflicts with use of the proposed Zipline, requiring the tree to be cut down in its entirety, it is recommended that a three foot tall stump be maintained, which will provide additional habitat. This may also be desirable in areas adjacent to existing or proposed trails, as snags are potentially dangerous if they fall down (which they eventually will).

In addition, if woody debris larger than four inches in diameter needs to be removed during installation of the Zipline, it should be carefully relocated into a vegetated area. Any herpafauna actively present underneath the debris should be carefully relocated, following best scientific practices related to handling procedures.

#### **Operation of the Zipline Tours**

Construction and operation of the Zipline tours, if following the above Management Recommendations, is not expected to have any significant effect on existing wildlife or habitat within the park. Tour group sizes should be kept to a minimal number at any given time. Larger groups tend to cause more of a disturbance due to increased activity and noise. In addition, larger groups tend to have a greater impact on the surrounding area due to overuse and off-trail impacts. Based on review of the BCC tour program, operation of the proposed Ziptour is not expected to have a significant effect on existing wildlife or habitat within the park.

## References

Bellevue Community Center South web site. [http://www.bellevuewa.gov/south\\_bellevue\\_center.htm](http://www.bellevuewa.gov/south_bellevue_center.htm)

Bellevue Municipal Code. 2006, as amended. 20.25H.165 Critical Areas Overlay. City of Bellevue, Washington.

Bull, E.L. 2002. The Value of Coarse Woody Debris to Vertebrates in the Pacific Northwest. USDA Forest Service Gen. Tech. Rep. PSW-GTR-181.

Corkran, Charlotte and Chris Thoms, 2006. Amphibians of Oregon, Washington, and British Columbia. Lone Pine Publishing.

King County. 2012. Noxious Weeds of Concern.  
<http://dnr.metrokc.gov/wlr/lands/weeds/weedlist.cfm?class=O>

Larsen, E., J. M. Azerrad, and N. Nordstrom, editors. 2004. Management recommendations for Washington's priority species, Volume IV: Birds. Washington Department of Fish and Wildlife, Olympia, Washington, USA

Morse, Bob, Robert Morse, Tom Aversa, Hal Opperman. 2003. Birds of the Puget Sound Region. Regional Bird Books. R.W. Morse Company. Cornell University.

National Park Service. 2002. <http://www.nps.gov/archive/redw/e-ivy.htm>

Jones, L., W.P. Leonard, and D.H. Olson, editors, 2005 *Amphibians of the Pacific Northwest*. Seattle, WA, Seattle Audubon Society.

Synergo July 20, 2012. Report from Layout for Guided Zip Tour at Bellevue Community Center. Technical Memorandum sent to Scott VanderHyden, Bellevue Parks and Community Service.

Thomas, J.W. 1979. Wildlife habitats in managed forests: the Blue Mountains of Oregon and Washington. Agricultural Handbook No. 553. Washington., DC: Forest Service, U.S. Department of Agriculture; 512 p.

U. S. Fish and Wildlife Service. 2007. Listed and proposed endangered and threatened species and critical habitat; candidate species; and species of concern in King County as prepared by the U.S. Fish and Wildlife Service Western Washington Fish and Wildlife Office.

Washington Department of Fish and Wildlife. Adopted from Living with Wildlife.  
<http://wdfw.wa.gov/wlm/living/bats.htm>

Washington Department of Fish and Wildlife. 2009. Landscape Planning for Washington's Wildlife: Managing for Biodiversity in Developing Areas. 88 pp + app. Olympia, Washington.

Washington Department of Natural Resources natural Heritage Program Website:  
[http://www.dnr.wa.gov/ResearchScience/Topics/NaturalHeritage/Pages/amp\\_nh.aspx](http://www.dnr.wa.gov/ResearchScience/Topics/NaturalHeritage/Pages/amp_nh.aspx)

Watershed Company, The. 2009. Bellevue Urban Wildlife Habitat Literature Review.

# SOUTH BELLEVUE COMMUNITY CENTER ZIPLINE / AERIAL TOUR PROJECT

**PROJECT TEAM**

**OWNER / DEVELOPER:**  
CITY OF BELLEVUE PARKS & COMMUNITY SERVICES  
450 110TH AVENUE NE  
BELLEVUE, WA 98009  
CONTACT: SCOTT VANDER HYDEN, svanderhyden@bellevuewa.gov  
TELEPHONE: (425) 452-4169

AND

**SYNERGO**  
15995 SOUTHWEST 74TH AVE, NO. 200  
TIGARD, OR 97224  
CONTACT: ERIK MARTER, erik@teamsynergo.com  
TELEPHONE: (503) 746-6646

**CIVIL ENGINEER:**  
KPF CONSULTING ENGINEERS  
1601 FIFTH AVENUE, SUITE 1600  
SEATTLE, WA 98101  
CONTACT: BRAD BARRON, brad.barron@kpf.com  
TELEPHONE: (206) 622-5822

**STRUCTURAL ENGINEER:**  
KPF CONSULTING ENGINEERS  
1601 FIFTH AVENUE, SUITE 1600  
SEATTLE, WA 98101  
CONTACT: JULIUS CARREON, julius.carreon@kpf.com  
TELEPHONE: (206) 622-5822

**SURVEY INFORMATION**

**BASIS OF BEARING:**  
N.A.D. 83 (2007)  
WASHINGTON, NORTH ZONE

**VERTICAL DATUM:**  
N.A.V.D. 88 (CITY OF BELLEVUE)

**VERTICAL CONTROL:**  
BM #463: CONC MON H455 w/ 2 1/4" BRASS CAP w/ PUNCH MARK ON SE 44TH STREET  
ELEV. = 734.44'

BM #834: 5/8" REBAR w/ PUNCH MARK IN CASE FOR PCC MON H3124 ON C-L OF SE NEWPORT WAY WEST OF 142ND PL SE  
ELEV. = 360.71'

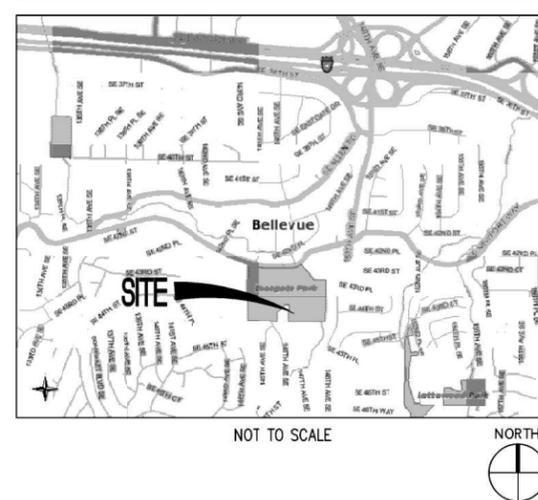
**PROPERTY DESCRIPTION:**  
(REFER TO PACIFIC NORTHWEST TITLE COMPANY, ORDER NO. 1155538, DATED MARCH 25TH, 2011, SCHEDULE A - LEGAL DESCRIPTION)

TRACTS C AND D OF BELLEVUE SHORT PLAT NUMBER 76-57, RECORDED UNDER RECORDING NUMBER 7705170800, BEING A PORTION OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER AND THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON.

**PROPOSED LEGEND**

- LIMITS OF WORK
- - - ZIPLINE / BRIDGE / RAMP
- ▶ ZIPLINE DIRECTION
- ◻ TREE PLATFORM (NOT TO SCALE)
- ▨ TRAIL
- ⊗ ZIPLINE COURSE NUMBER
- x---x---x--- CHAINLINK METAL FENCE
- o---o--- HIGH VISIBILITY PLASTIC FENCE
- ✕ TREE REMOVAL
- ✱ TREE SNAGGING
- ▨ APPROXIMATE LOCATION OF EXISTING SOUTH BELLEVUE COMMUNITY CENTER CHALLENGE COURSE
- ▨ MITIGATION PLANTING AREA A
- ▨ MITIGATION PLANTING AREA B
- ▨ STAGING AREA / CONSTRUCTION VEHICLE ACCESS
- ▨ STEEP SLOPE CRITICAL AREA
- NUMBER ---X---  
SHEET LOCATION ---X-X--- DETAIL CALL OUT

**VICINITY MAP**



**SITE ADDRESS**

EASTGATE PARK - SOUTH BELLEVUE COMMUNITY CENTER  
14500 SE NEWPORT WAY  
BELLEVUE, WA 98006

**IMPERVIOUS AREAS**

THE PROJECT PROPOSES NO NEW IMPERVIOUS AREAS.

**EXISTING LEGEND**

- EXISTING RIGHT OF WAY
- EXISTING PROPERTY LINE
- EXISTING SECTION LINE
- EXISTING EASEMENT
- 10' CONTOUR LINE
- 50' CONTOUR LINE
- ⊕ MON IN CASE
- IRON ROD
- + PK NAIL
- ✕ HUB & TACK
- ⊕ BOUNDARY SIGN
- ⊕ TELEPHONE RISER
- ⊕ UTILITY POLE
- ⊕ GAS VALVE
- ⊕ STREET SIGN

**ABBREVIATIONS**

- AVE AVENUE
- BMP BEST MANAGEMENT PRACTICE
- EK EXISTING
- SE SOUTHEAST
- TYP TYPICAL

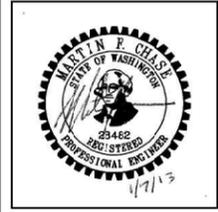
**SHEET INDEX**

- CIVIL:**
- C-0.1 COVER SHEET
  - C-1.0 SITE KEY PLAN
  - C-2.0 STAGING, ACCESS, AND MITIGATION PLANTING PLAN
  - C-3.0 CRITICAL AREAS MAP

- STRUCTURAL:**
- S-1.0 STRUCTURAL NOTES AND SCHEDULE
  - S-2.0 ZIPLINE AND BRIDGE DETAILS
  - S-3.0 TREE ANCHORAGE DETAILS

- PLATFORM DESIGN:**
- S0 GENERAL NOTES AND DETAILS
  - S1 10' OCTAGON PLATFORM
  - S2 10' OCT. WITH RAMP OPTION
  - S3 10' OCTAGON HARDWARE

**kpf1 Consulting Engineers**  
1601 Fifth Avenue, Suite 1600  
Seattle, Washington 98101  
(206) 622-5822 Fax (206) 622-8130



NO.	DATE	REVISION
1		
2		
3		
4		
5		

SOUTH BELLEVUE COMMUNITY CENTER ZIPLINE / AERIAL TOUR PROJECT

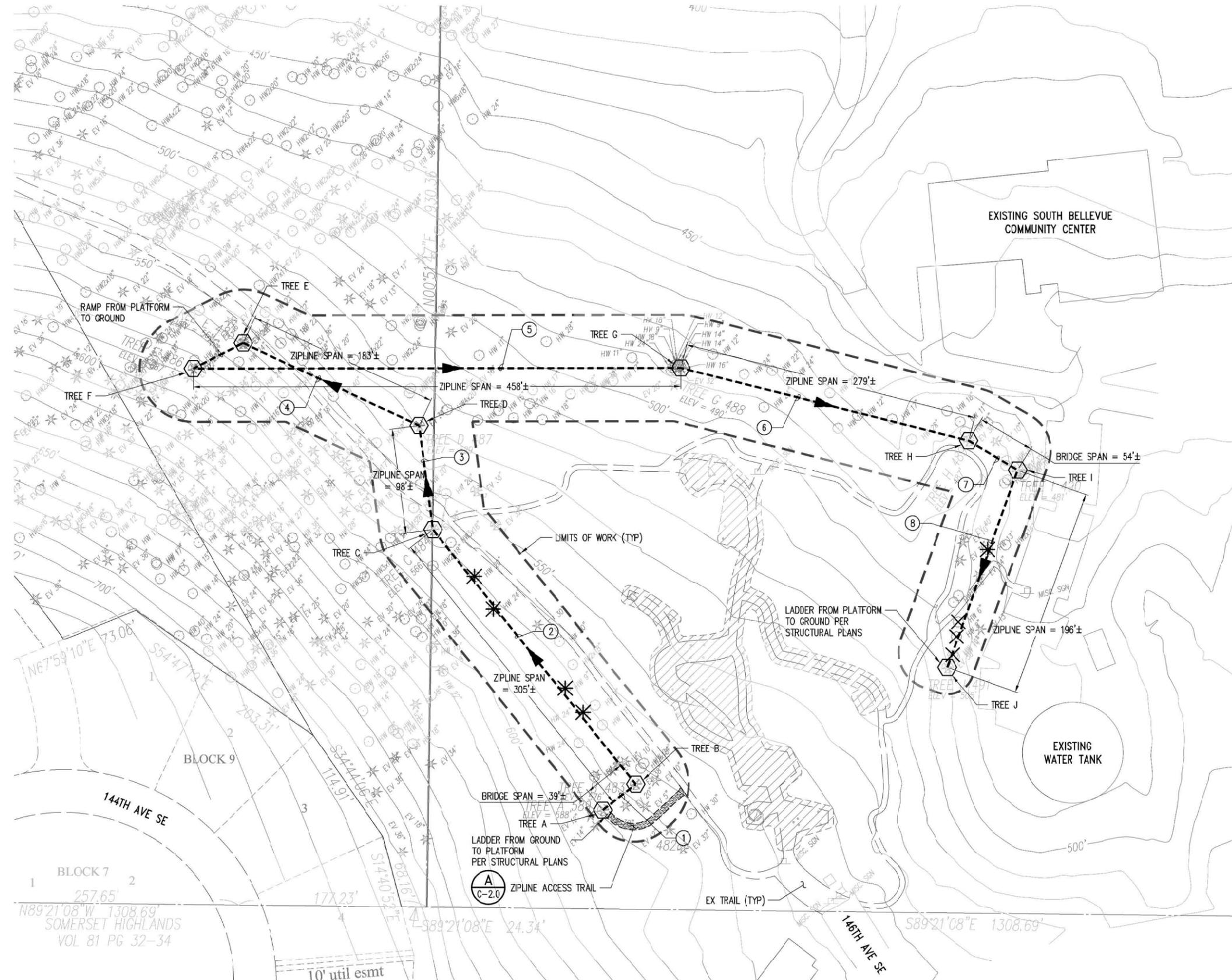
COVER SHEET

PROJECT NO.: 112386
SCALE:
DATE: 01/07/2013
SHEET NO.

CALL TWO BUSINESS DAYS BEFORE YOU DIG  
1-800-424-5555

**C-0.1**

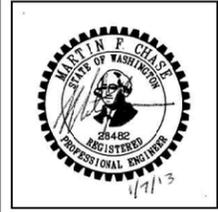
SECTION 15, TOWNSHIP 24N, RANGE 5E



- NOTES**
1. A COPY OF THE APPROVED PLANS MUST BE ON-SITE DURING CONSTRUCTION.
  2. TREE AND TOPOGRAPHIC INFORMATION IS BASED ON THE SURVEY PERFORMED BY CITY OF BELLEVUE (COB) DATED NOVEMBER 2, 2012.
  3. LADDERS AND RAMP SHALL BE PER ACCT CHALLENGE COURSE AND CANOPY / ZIPLINE TOUR STANDARDS (7TH EDITION).

- LEGEND**
- LIMITS OF WORK
  - - - ZIPLINE / BRIDGE / RAMP
  - ▶ ZIPLINE DIRECTION
  - ⬡ TREE PLATFORM (NOT TO SCALE)
  - ▬ TRAIL
  - (X) ZIPLINE COURSE NUMBER. SEE STRUCTURAL PLANS
  - ▨ APPROXIMATE LOCATION OF EXISTING SOUTH BELLEVUE COMMUNITY CENTER CHALLENGE COURSE

**kp11 Consulting Engineers**  
 1601 Fifth Avenue, Suite 1600  
 Seattle, Washington 98101  
 (206) 622-5822 Fax (206) 622-8130



NO.	DATE	REVISION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

**SOUTH BELLEVUE COMMUNITY CENTER  
 ZIPLINE / AERIAL TOUR PROJECT**

**SITE KEY PLAN**

PROJECT NO.:	112386
SCALE:	1" = 50'
DATE:	01/07/2013
SHEET NO.:	

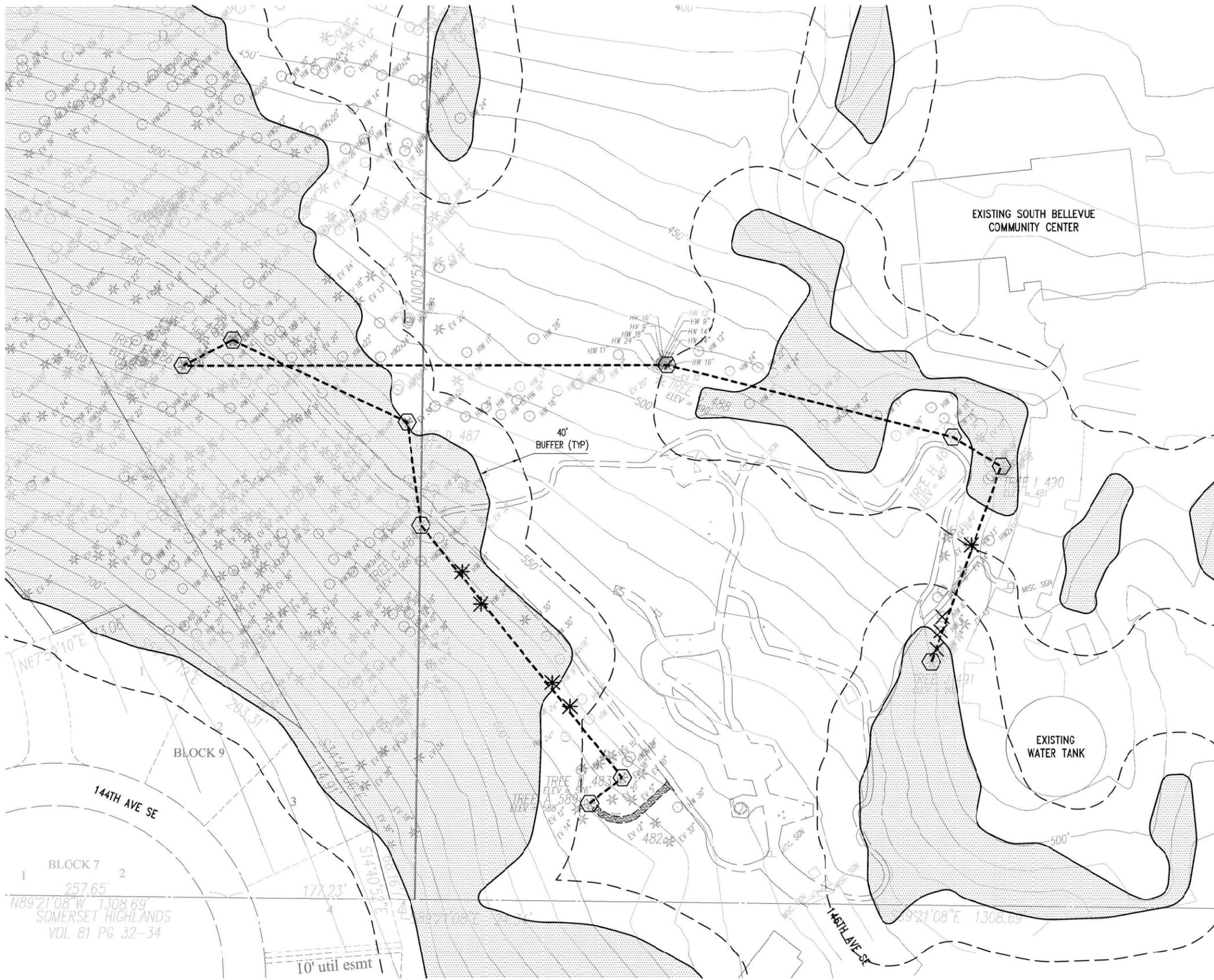
**CALL TWO BUSINESS DAYS BEFORE YOU DIG  
 1-800-424-5555**

**C-1.0**

Path: X:\112386 (Bellevue Zipline)\CADD\Design\SBC-C-1.0-KP.dwg Plot date: Jan 07, 2013 09:49:52am CAD User: damny.  
 Xref Filename: | X-SBCC-TB | X-SBCC-SV | X-SBCC-SP | chase |



SECTION 15, TOWNSHIP 24N, RANGE 5E

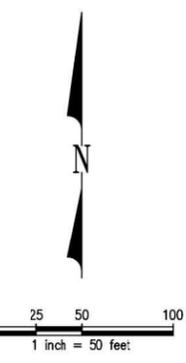


NOTES

1. STEEP SLOPE CRITICAL AREAS ARE SLOPES GREATER THAN OR EQUAL TO 40 PERCENT. A 40-FOOT STEEP SLOPE CRITICAL AREA BUFFER EXTENDS FROM THE BOUNDARY OF THE STEEP SLOPE CRITICAL AREA.

LEGEND

- STEEP SLOPE CRITICAL AREA
- STEEP SLOPE CRITICAL AREA BUFFER
- ZIPLINE / BRIDGE / RAMP
- TREE PLATFORM (NOT TO SCALE)
- TRAIL
- TREE REMOVAL
- TREE SNAGGING



**kp11** Consulting Engineers  
 1601 Fifth Avenue, Suite 1600  
 Seattle, Washington 98101  
 (206) 622-5822 Fax (206) 622-8130



NO.	DATE	REVISION

**SOUTH BELLEVUE  
 COMMUNITY CENTER  
 ZIPLINE / AERIAL TOUR PROJECT**

**CRITICAL AREAS MAP**

PROJECT NO.:	112386
SCALE:	1" = 50'
DATE:	01/07/2013
SHEET NO.:	

CALL TWO BUSINESS  
 DAYS BEFORE YOU DIG  
 1-800-424-5555

**C-3.0**

Path: X:\112500\112500\112500\Design\SBCC-C3.0-CA.dwg Plot date: Jan 07, 2013 09:49:40am CAD User: dammy.  
 Xref Filename: | X-SBCC-TB | X-SBCC-SV | chase | X-SBCC-SP |

BLOCK 7  
 1 257.65' 2  
 N89°21'08" W 1308.69'  
 SOMERSET HIGHLANDS  
 VOL 81 PG 32-34

BLOCK 9

144TH AVE SE

10' util esmt

EXISTING WATER TANK

EXISTING SOUTH BELLEVUE  
 COMMUNITY CENTER

40'  
 BUFFER (TYP)

0 25 50 100  
 1 inch = 50 feet