

Low Impact Development Principles Project



Chapter 20.25 Special and Overlay Districts

Part 20.25A Downtown

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20.25A.060 Walkways and sidewalks.

[...]

B. Street Trees Required – Perimeter.

1. The property owner shall install street trees and other required vegetation, in addition to any landscaping required by LUC 20.25A.040, according to the requirements of Plate B and this section or as approved by the Director unless, upon the request of the applicant, minor modification is approved by the Director.
2. Except for the streets listed in paragraph A.2 of this section, the area in which street trees are planted must be at least four feet wide, and located between the street improvement and the walkway or sidewalk unless precluded by existing utilities which cannot reasonably be relocated. Any street tree planting area must be at least four feet by six feet or five feet by five feet or smaller area as approved by the Director, unless upon request of the applicant minor modification of this requirement is approved by the Director, and protected by an approved decorative grate. This grate may intrude into the sidewalk.
3. Street trees, at least three inches in caliper or as approved by the Director, must be planted at least three feet from the street curb, and a maximum of 25 feet on center, unless upon request of the applicant minor modification of this requirement is approved by the Director, and conforms to the sight distance requirements of BCC 14.60.240. A street tree planting area may also include decorative paving and other plant materials except turf. Where feasible, bioretention swales and planters may be located within the planter strip.
4. On the streets listed in paragraph A.2 of this section, street trees shall be planted and placed as required in paragraph B.3 of this section. These required street trees together with shrubbery, groundcover and other approved plantings are required in a planter strip along the length of the frontage. Designs should prioritize the selection of native plant species~~The use of native vegetation is strongly preferred.~~ The planter strip must be at least four feet wide, unless a smaller width is approved by the Director. Vegetation included in the planter strip shall be urban in character, shall be compatible with other plantings along the same street, and shall reflect the character of the area within which they are planted, as approved by the Director.

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20.25A.090 Perimeter Design District

[...]

D. Development Standards

[...]

4. Landscape Development

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b. Linear Buffers.

- i. General. Any development situated within Perimeter Design District – Subdistrict A shall provide a “linear buffer” within the minimum setback adjacent to the Downtown boundary required by paragraph D.2 of this section. The purpose of this feature is to produce a green buffer that will soften the visual impact of the relatively larger buildings. These design standards are minimum requirements for the size and quantity of trees, shrubs and other “linear buffer” elements. The specific design of the “linear buffer” for each project site will be determined through the Design Review Process. Design considerations include but are not limited to the placement of elements and their relationship to adjacent property as well as to the proposed development. Different sets of design standards apply to each of the locational conditions.
- ii. Where the Downtown boundary falls within the Main Street, 100th Avenue NE or NE 12th Street right-of-way, the minimum setback from the Downtown boundary shall be landscaped according to the basic requirements and either Alternative A or B of the supplemental requirement.
 - (1) Basic Requirements (applicable in all cases):
 - (a) Must have a minimum width of 20 feet;
 - (b) Must abut and be within three feet in elevation of a sidewalk, so as to be visually and physically accessible;
 - (c) Must provide at least one sitting space for each 200 square feet of the perimeter setback area;
 - (d) May not be used for parking; vehicular access drives shall be kept to a minimum;
 - (e) Must be readily accessible to the public at all times;
 - ~~(f)~~ Must include seasonal color in an amount of at least 10 percent of the perimeter setback area;
 - ~~(f)~~(g) Must utilize native species for at least 50 percent of the plantings located within the perimeter setback area.
 - (2) Supplemental Requirements:

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- (a) Alternative A:
 - (i) Three deciduous trees, with a minimum caliper of three inches, per each 1,000 square feet of the perimeter setback area; and v) Planting area must either be raised or sloped. If raised, the planting area shall be surrounded by a wall with a minimum height of 18 inches and a maximum height of 24 inches to allow for sitting.
- (b) Alternative B:
 - (i) Three deciduous trees, with a minimum caliper of three inches, per each 1,000 square feet of the perimeter setback area; and
 - (ii) Lawn greater than five feet in width or ground cover on at least 25 percent of the perimeter setback area; and
 - (iii) Any paved surfaces shall be no more than 75 percent of the perimeter setback area; and
 - (iv) Paved areas shall use [pervious pavement](#), brick, stone or tile in a pattern and texture that is level and slip-resistant; and
 - (v) Opportunities for pedestrian flow from the sidewalk shall be frequent and direct. Changes in grade between the linear buffer and sidewalk shall be accommodated by steps or terraces, rather than walls.
- iii. Where the Downtown boundary abuts property outside the Downtown other than right-of-way described in paragraph D.4.b.ii of this section, the minimum setback from the Downtown boundary (or perimeter property lines when the setback has been relocated pursuant to Note 10 of subsection 20.25A.090.D.2) shall be landscaped as follows:
 - (1) The entire setback (20 feet) shall be planted. No portion may be paved except for vehicular entrance drives and required mid-block pedestrian connections.
 - (2) The setback must incorporate a berm having a minimum height of three and one-half feet.
 - (3) The setback must be planted with:
 - (a) Evergreen and deciduous trees, with no more than 30 percent deciduous, a minimum of 10 feet in height, at intervals no greater than 20 feet on center; and
 - (b) Evergreen shrubs, a minimum of two-gallon in size, at a spacing of three feet on center; and
 - (c) Living ground cover so that the entire remaining area will be covered in three years.
- c. Street Trees. Street trees required by LUC 20.25A.060.C along Main Street, 100th Avenue NE or NE 12th Street must be at least four inches in caliper.

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20.25A.110 Design Review Criteria

B. Downtown Patterns and Context.

[...]

2. Landscape Design

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- d. Encourage Require retention of significant existing vegetation, where it can be incorporated into efficient site design and maintained in a safe and healthful condition.

Part 20.25B Transition Area Design District

20.25B.040 Development Standards

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C. Landscaping, Open Space and Buffers

1. Landscaping. All landscaping shall comply with standards set forth in LUC 20.20.520. The provisions of LUC 20.20.520.J (Alternative Landscaping Option) are applicable and, in addition, may be used to modify up to 10 feet of required street frontage landscaping.
2. Buffer
 - a. A landscaped buffer, at least 20 feet in width, shall be provided along the entire street frontage where any portion of the street frontage is abutting a district receiving transition and along the interior property line abutting the district receiving transition. Where feasible, bioretention swales and planters may be located within landscape buffers. This buffer can double as a bioretention planter.
 - b. All significant trees within 15 feet of the property line shall be retained as required by LUC 20.20.520.E.
 - c. The buffer shall be planted with the following, and shall include at least 50 percent native species in the required plantings:
 - i. Evergreen and deciduous trees, of which no more than 40 percent can be deciduous. There shall be a minimum of five trees per 1,000 square feet of buffer area, which shall be a minimum of 10 feet high at planting, along with the evergreen shrubs and living groundcover as described in paragraphs C.2.c.ii and iii of this section to effectively buffer development from adjacent residential properties; and
 - ii. Evergreen shrubs, a minimum 42 inches in height at planting, at a spacing no greater than three feet on center; and
 - iii. Living groundcover planted to cover the ground within three years; and
 - iv. Alternatively, where the street frontage landscaping will be planted to buffer a building elevation and not a parking area, driveway or site development other than a building, a lawn no less than five feet in width may be substituted for the shrubs and

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groundcover required in paragraphs C.2.c.ii and iii of this section; provided, that the soil in the entire area of lawn is amended in accordance with LUC 20.20.520.F.8. This paragraph does not apply in LI and GC Districts.

- d. Where an LI, GC or CB zoned property abuts a residential district on an interior property line, an evergreen hedge a minimum of four feet in height at planting and capable of achieving a continued visual screen with a height of five feet within a three-year period or a combination of shrubs and fence shall be added within the required planting area to achieve the effect of a hedge.
- e. Patios and other similar ground level features and trails may be incorporated into the buffer area, except that no more than 20 percent of the area may be used for such features. Patios shall not be located within 10 feet of the property line.

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Part 20.25D Bel-Red

[...]

20.25D.150 Design Guidelines

[...]

A. Character and Site Guidelines.

1. Integrate the Natural Environment.

a. Intent.

Reinforce linkages and orient buildings to the Bel-Red Subarea's natural and landscaped features.

b. Guideline.

Site and building design should capitalize on significant elements of the natural environment, Highland Community Park and planned park and open space, riparian corridors and wetlands. Designs should incorporate open space amenities for residents, employees and visitors. Depending on the location, this may be accomplished through integration of the natural environment with new development or providing a smooth transition between the natural and built environments.

c. Recommended.

- i. Active and passive gathering places and walkways oriented toward parks and open, natural spaces.
- ii. Clear and convenient public access to open space amenities.
- iii. Elements that engage the natural environment where the sight, sound and feel of nature can be directly experienced.

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- iv. Buildings sited to take maximum advantage of adjacent public amenities.
 - v. Walkways and plazas paved with high-quality materials (such as brick or stone), and other architectural elements that use materials, colors and forms that are harmonious with the natural surroundings.
 - d. Not recommended.
 - i. Buildings that turn their back on open space amenities.
 - ii. Stands of “native” planting schemes within large, automobile-oriented parking lots.
- [...]
4. Protect and Enhance Surface Water Resources.
- a. Intent.
Conserve water quality, natural hydrology and habitat, and preserve biodiversity through protection of water bodies and wetlands.
 - b. Guideline.
Natural water systems regulate water supply, provide biological habitat and may provide recreational opportunities. Undeveloped ecosystems absorb the precipitation and convey only a small portion of rainfall as surface runoff. New and infill development should minimize disturbances to the on-site, adjacent, and regional natural water systems. Use of natural drainage practices are required unless infeasible.
 - c. Recommended.
 - i. Grading and plan layout that captures and slows runoff.
 - ii. Pervious or semi-pervious surfaces that allow water to infiltrate soil.
 - ~~iii. On-site landscape-based water treatment methods that treat rainwater runoff from all surfaces, including parking lots, roofs and sidewalks.~~
 - d. Not Recommended.
 - i. Buried, piped or culverted stream channels.
 - ii. Water quality enhancement projects that detract from the urban character of the area.

[...]

Part 20.25F Evergreen Highlands Design District

20.25F.040 Site and Design Requirements

C. Design Requirements

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- 2. Landscaping and Vegetation Preservation.
 - a. The applicant must provide landscaping between structures, as a setting for structures, and within and around parking areas. This landscaping must enhance the coordinated

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project design, and provide a pleasing environment between structures. All pervious surface must be landscaped, except those areas specified under other provisions of this Code for natural vegetation, or determined by the Technical Committee as desirable for retention in its natural state.

- b. If landscaping is located between uses, the type and intensity of planting must reflect the variation in use category and intensity. The larger the variation, the more the planting must serve as a solid screen.
- c. Particular attention must be given to street frontage landscaping which will visually separate the development from the street, and create a soft edge condition.
- d. Landscaping shall create a setting which enhances pedestrian use of open space and which provides a sense of place and scale for the proposed development.
- e. A significant number of trees at least 12 feet to 14 feet in height or two and one-half inches to three inches in caliper, in conformance with the American Standard for Nursery Stock, and predominantly evergreen, must be included in each planted area. Caliper is measured four feet above existing grade. Shrubs at least three and one-half feet in height along a parking area or site perimeter and at least two feet in height at any other location must be interspersed among the trees, and the majority of the remaining area planted with living ground cover so that the ground will be covered in three years.
- f. Wherever practical and consistent with proposed site design, tree line and existing trees at least six inches in caliper must be retained. Caliper is measured four feet above existing grade. Tree protection techniques, approved by the Technical Committee must be utilized during construction. Where changes in grade have occurred, permanent tree preservation methods, approved by the Technical Committee must be utilized.
- g. The applicant must install street trees at least three inches in caliper along the street frontage. Caliper is measured four feet above existing grade. The location and species installed are subject to approval of the Technical Committee.
- h. The applicant must install interior parking area landscaping equal to at least 10 percent of the area devoted to parking and circulation. Planting areas must be at least 100 square feet and no more than 1,000 square feet. The minimum dimension in any direction is four feet. Each planting area must contain at least one tree combined with shrubs and ground cover which meet the minimum size requirements of paragraph C.2.e of this section.

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4. Drainage

The applicant must submit a drainage plan consistent with the development standards of the City of Redmond and the City of Bellevue which produce the more protective drainage

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system as determined by the Redmond Public Works Director and the Bellevue Utilities Director. The use of LID stormwater management techniques areis required unless infeasible.

[...]

Part 20.25F1 Factoria 1

20.25F1.070 Sidewalks and Pedestrian Paths

A. Perimeter Sidewalks.

1. Minimum Width. The minimum width of perimeter street sidewalks shall be 12 feet inclusive of the planter strip plus six inches for curb, except as necessary to retain mature trees pursuant to paragraph A.2.e below.
2. Street Trees And Planter Strip Design.
 - a. Installation. The property owner shall install street trees and planter strips, in addition to any landscaping required by LUC 20.25F1.050, pursuant to the City of Bellevue Environmental Best Management Practices and Design Standards, now or as hereafter amended. Street tree and planter strips shall be irrigated. Appropriate tree species will be determined through the Master Development Plan process.
 - b. Location. The area in which planter strips are installed must be located between the street and the sidewalk unless precluded by existing utilities which cannot reasonably be relocated or as necessary to retain mature trees pursuant to paragraph A.2.e below.
 - c. Design. Required street trees should be placed in predominantly continuous planter strips together with shrubbery, ground cover and other plantings approved by the Director. The area in which street trees are planted must be at least four feet wide by six feet wide. Vegetation approved for a planter strip must be compatible with the F1 Design Guidelines for the development area within which the planter strip is located. A street planter strip may also include decorative paving and other plant materials except turf. Where feasible, bioretention swales and planters may be located within the planter strip.
 - d. Size and Spacing. Large growing deciduous street trees, at least three inches in caliper or as approved by the Director, shall be planted at least three feet from the street curb, and a maximum of 30 feet on center, and shall conform to the sight distance requirements of BCC 14.60.240.
 - e. Mature Tree Retention. The existing mature street trees located on the perimeter street frontages shall be maintained to the extent feasible. Sidewalks and planter strips may be reduced and/or relocated to the back of sidewalk if necessary to accommodate retention of the mature trees.

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B. On-Site Sidewalks.

1. **Minimum Width.** The minimum width of on-site street sidewalks shall be 12 feet inclusive of the street tree planting wells.
2. **Street Trees and Plantings.**
 - a. **Installation.** The property owner shall install street trees and plantings, in addition to any landscaping required by LUC 20.25F1.050, pursuant to the City of Bellevue Environmental Best Management Practices and Design Standards, now or as hereafter amended. Street trees and required landscaping shall be irrigated. Appropriate tree species will be determined through the Master Development Plan process.
 - b. **Location.** Street trees shall be planted in a continuous, rhythmic pattern. Street trees must be located between the street and the sidewalk.
 - c. **Design.** Required street trees shall be planted in tree pits with grates. The area in which street trees are planted must be at least four feet wide by six feet wide. Street grates are not required if street trees are planted as part of a bioretention facility.
 - d. **Size and Spacing.** Small growing pedestrian-scale deciduous street trees, at least three inches in caliper or as approved by the Director, shall be planted at least three feet from the street curb, and a maximum of 25 feet on center, and shall conform to the sight distance requirements of BCC 14.60.240.

C. Pedestrian Paths.

1. **Minimum Width.** The minimum width of pedestrian paths shall be 12 feet inclusive of the planter strip. Parking spaces adjacent to pedestrian paths must be designed to ensure that the minimum sidewalk width is maintained free of vehicle encroachments.
2. **Location.** Pedestrian path locations and phasing shall be determined through the Master Development Plan process consistent with the site design guidelines.
3. **Landscape Strips.**
 - a. **Installation.** The property owner shall install trees and plantings, in addition to any landscaping required by LUC 20.25F1.050, pursuant to the City of Bellevue Environmental Best Management Practices and Design Standards, now or as hereafter amended. Tree and planter strips shall be irrigated.
 - b. **Design.** Appropriate tree species and landscaping shall be determined through the Master Development Plan process. Street trees, shrubbery, ground cover and other plantings approved by the Director shall be provided in continuous planter strips along the length of a pedestrian path. The area in which street trees are planted must be at least four feet wide by six feet wide. Vegetation approved for a planter strip must be compatible with the F1 Design Guidelines for the development area within which the planter strip is located. (Ord. 5726, 3-19-07, § 3)

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Part 20.25H Critical Areas Overlay District

20.25H.080 Performance standards.

A. General.

Development on sites with a type S or F stream or associated critical area buffer shall incorporate the following performance standards in design of the development, as applicable:

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3. Toxic runoff from new impervious area shall be routed away from the stream.
4. Treated water may be allowed to enter the stream critical area buffer.
5. The outer edge of the stream critical area buffer shall be planted with dense vegetation to limit pet or human use. Preference shall be given to native species.

Part 20.25J Medical Institution District

20.25J.070 Streetscape Design Requirements

[...]

B. Sidewalks

[...]

2. Street Trees and Plantings
 - a. The property owner shall install street trees and plantings, in addition to any landscaping required by LUC 20.25J.060. Appropriate tree species will be determined through the Master Development Plan or Design Review where Master Development Plan approval is not required.
 - b. The area in which street plantings are installed must be located between the street and the sidewalk unless precluded by existing utilities which cannot reasonably be relocated. Required street trees together with shrubbery, groundcover and other approved plantings must be placed in a planter strip along the length of the frontage. Where feasible, bioretention swales and planters may be located within the planter strip. Free and planter strips can double as bioretention planters. The planter strip must be at least four feet wide unless a smaller strip is approved by the Director. Vegetation included in the planter strip shall be urban in character, shall be compatible with other plantings within the property and along the same street, and shall reflect the character of the area in which they are planted. Designs should prioritize the selection of native plant species. vegetation is strongly preferred.
 - c. Street trees, at least three inches in caliper or as approved by the Director, must be planted at least three feet from the street curb, and a maximum of 25 feet on center, unless upon request of the applicant minor modification of this requirement is approved

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by the Director, and conforms to the sight distance requirements of BCC 14.60.240. A street tree planting area may also include decorative paving and other plant materials except turf.

- d. Street trees and plantings shall be irrigated.

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