

Appendix 1: Landscaping Calculation Worksheet: Summary

Overall Site Landscaping		
1. Area not covered by structures		SF
2. Landscaping area required		SF
Required Tree Canopy Credits		
Parcel Area		SF
Tree Canopy Credits Required		
Proposed Trees	Number	Species
Small Trees		
Medium Trees		
Large Trees		
Street Trees		
1. Street Trees Required		
2. Site Frontage		LF
3. Required Trees	Number	Species
Small Trees		
Medium Trees		
Large Trees		

Parking Lot Landscaping		
1. Parking Lot Landscaping is Required		
2. Total Area of Parking Lot		SF
3. Interior Planting		
Total Trees Required		
Flexibility Options Used:		
Landscaped Areas	Number	Total SF
Small Trees		
Medium Trees		
Large Trees		
Total Interior Landscape Area		SF
Credits and Flexibility		
Tree Retention		
Evergreen Trees		
Tree Bank		

Plant Schedule (TYP)

Symbol	Botanical Name	Common Name	Container Caliper	Size	Quantity	Detail	S/M/L	PNW Native?

Appendix 1A: Overall Site Landscaping Calculations Worksheet

Overall Site Landscaping Worksheet:			
STEP 1: Determine site area not covered by structures			
Total site area	Area covered by structures	Area not covered by structures	
_____ sf -	_____ sf =		
		_____ sf	
STEP 2: Determine total Overall Site Landscaping area required			Total Overall Site Area landscaping required
5% x			= _____ sf
<p>NOTES:</p> <ul style="list-style-type: none"> • If other required landscaping is equal to or greater than this amount, then no further landscaping is required. • Shrubs and groundcover to fully cover area within 3 years. 			

Appendix 1B: Site Perimeter Landscaping Calculation Worksheet

STEP 1: Determine if Site Perimeter Landscaping is required			
Not required in Urban Residential, Industrial or X Districts.			
<ul style="list-style-type: none"> • 7 feet wide for sites without abutting street trees • 5 feet wide for sites with street trees or less than 150 feet in depth 			
STEP 2: Determine total area of Site Perimeter Landscaping			
Length of site frontage x 7 or 5 feet width (– areas not planted) = _____			
STEP 3: Determine required number of Small, Medium and/or Large Tree Species			
Total Site Perimeter Trees required			
_____ sf –	_____ Small Trees x 200 sf	_____ Medium Trees x 300 sf	_____ Large Trees x 400 sf
NOTES: <ul style="list-style-type: none"> • Shrubs and groundcover to fully cover area within 3 years. 			

Appendix 1C: Parking Lot Landscaping Calculation Worksheet

STEP 1: Determine if Parking Lot Landscaping is required			
In M-2 or PMI Districts, Parking Lot Perimeter landscaping is not required.			
In Urban Residential (UR) Districts, Perimeter landscaping is only required between parking lots and streets.			
Parking lots of 16 stalls or less are not required to meet Interior Planting requirements.			
Parking lots of 16 stalls or less, located behind buildings and accessed by alleys, are exempt from the Interior Planting and Site Perimeter requirements.			
STEP 2: Determine Parking Area tree minimum – Overall			
Total area of parking lot: _____			
Total area of parking lot ≤	The sum of:		
_____ sf	_____ Small Trees x 700 sf	_____ Medium Trees x 1,000 sf	_____ Large Trees x 1,400 sf
NOTE:			
<ul style="list-style-type: none"> • If other required parking lot landscaping is equal to or greater than this amount, then no further landscaping is required. 			
STEP 3: Determine Parking Lot – Interior Planting requirements			
Tree Distribution requirements:			
<ul style="list-style-type: none"> • No stall shall be more than 50 feet from a tree trunk • Long rows of parking shall be broken by islands or peninsulas with trees, such that there are no more than eight parking stalls in a row without a tree. • Planting areas with trees are required at all parking aisle ends. • At least one Small Tree per 200 sf, one Medium Tree per 300 sf, or one Large Tree per 400 sf of landscaped area. • Trees planted shall be generally evenly distributed over the site. 			
TOTAL TREES REQUIRED: _____			

Tree Distribution flexibility:

Maximum distance between trees increase by 10 ft AND maximum row length by 1 stall for each of the following provided:

- Tree retention (at least 50% of tree requirements met through retaining trees greater than 20 inches DBH)
- Evergreen trees (greater than 2/3 of required trees)
- LID as primary stormwater technique

Once total number of trees is determined, utilize Minimum unpaved planting area requirement to determine total interior parking lot landscaped area:

- 24 sf per Small Tree planted
 - 40 sf per Medium Tree planted
 - 60 sf per Large Tree planted
- = _____ sf total Parking Lot Interior Planting Requirements

Determine Small, Medium and Large Trees required:

Interior Parking Lot Area:

_____ sf –

_____ Small
Trees x 200 sf

_____ Medium Trees x
300 sf

_____ Large Trees x
400 sf

NOTE:

- Shrubs and groundcover to fully cover area within 3 years.

STEP 4: Parking Lot – Perimeter Planting requirements

Determine Parking Lot – Perimeter Planting is requirements:

All lots greater than 20 stalls:

- 10 foot perimeter required
- 5 foot perimeter width if less than 150 foot deep site

EXCEPTIONS:

- Exceptions for parking lots less than 15 and behind buildings adjacent to alleys.

Determine total area of Parking Lot Perimeter:

Parking lot circumference x perimeter width (5 or 10 feet) = _____ sf

Determine Small, Medium and Large Trees required:

Parking Lot – Perimeter Area:

_____ sf –

_____ Small
Trees x 200 sf

_____ Medium
Trees x 300 sf

_____ Large Trees x
400 sf

NOTE:

- Shrubs and groundcover to fully cover area within 3 years.

Appendix 1D: Landscape Buffer Calculation Worksheet

STEP 1: Determine if Buffers are required			
Not required in Urban Residential districts.			
More intensive district abutting an R-District: <ul style="list-style-type: none"> • 15 foot wide buffer • 10-foot wide buffer for sites less than 150 feet deep 			
More intensive district across street or alley from R District: <ul style="list-style-type: none"> • 7 foot wide buffer • May be reduced to 4-feet with vegetated fence or wall. 			
Determine if exceptions apply			
STEP 2: Determine total area of Buffer planting			
Length of required buffer _____ x width _____ (15, 10, 7 or 4 feet) = _____			
STEP 3: Determine required planting			
Planting when abutting R-District: <ul style="list-style-type: none"> • See TMC 13.06.090.J.5 for tree number and spacing requirements. 			
Plantings across street or alley from R-District: <ul style="list-style-type: none"> • Total Buffer Trees required: 			
_____ sf –	_____ Small Trees x 200 sf = _____	_____ Medium Trees x 300 sf = _____	_____ Large Trees x 400 sf = _____
NOTES: <ul style="list-style-type: none"> • Mobile home/trailer court exceptions • See the TMC for species and spacing requirements • Shrubs and groundcover as specified in TMC 13.06.090B . 			

Appendix 1E: X District Front Yard and Foundation Landscaping Calculation Worksheet

STEP 1: Determine if required

- X Districts only
- When buildings are set back from sidewalk

STEP 2: Determine shrubs and groundcover required

- Landscaped area to be at least 3 feet wide
- Cover exposed foundations
- One shrub per three lineal feet of foundation
- Groundcover plants to cover the remainder of landscaped area.

Appendix 1F: Required Tree Canopy Credits Worksheet (UR Zones)

Step 1: Determine required Tree Canopy Credits* See Section 2.2				Total Required
Total Parcel Area:	Percentage of Tree Canopy Credits Required by Zone UR-1: 30% UR-2: 25% UR-3: 20%			Required Tree Canopy Credits
_____ sf	x _____ %			=
Step 2: Credits for Retained Trees See Section 2.2.4 Note: Calculate each tree individually				Total Retained
Credits for retained trees < 6" DBH	Credits for retained trees 6" ≤ 12" DBH	Credits for retained trees 12" ≤ 24" DBH	Credits for retained trees > 24" DBH	Sum of Retained Tree Canopy Credits
_____ in x 50 credits/in = _____	_____ in x 75 credits/in = _____	_____ in x 100 credits/in = _____	_____ in x 125 credits/in = _____	=
Step 3: Credits for New Trees See Section 2.2.3				Total Planted
Credits for Small Trees Planted	Credits for Medium Trees Planted	Credits for Large Trees Planted		Sum of New Tree Canopy Credits
___ Small Trees x 200 credits per tree = _____	___ Medium Trees x 500 credits per tree = _____	___ Large Trees x 1,000 credits per tree = _____		=
Step 4: Credits for Extra Street Trees (if applicable)				Extra Credits
Credits calculated in Section 3.1.2				=
Step 5: Determine the Total Tree Canopy Credits Provided				Total Provided
Sum of Retained Tree Canopy Credits, New Tree Canopy Credits, and Extra Street Tree Canopy Credits				=

*A project meets required Tree Canopy Credits if the total Tree Canopy Credits provided in the lower right cell is greater than or equal to the required Tree Canopy Credits in the upper right cell.