ARCHITECT'S RESPONSE TO CORRECTION NOTICE

Date: May 5, 2026

Applicant Representative:
Charles Fritzemeier AIA
Principal, Director of Architecture
JED **Architecture+Planning+Interiors+Product**
206.434.1100
hcfritzemeier_1@outlook.com

Business/Project Name: **Waterfall Garden Park**
Location: 219 2nd Ave S
Record number: **DONH- COA-02094**
PSB 8626

Please see our responses to each comment below:

The following information must be provided for a Certificate of Approval Application to be complete.

1. Provide existing conditions photos for all items that you intend to alter, such as light fixtures, fencing, etc.

Additional sheets of photographs with activity descriptions are included in this response as drawing sheets P-001, P-002, P-003, P-004, and P-005. Please note that we have included the complete set of documents, both those originally submitted and those added in response to your comments, in this response in the hopes that it makes your review easier.

In your description, you referred to the original plan and intentions. If you have the plans or description, provide that.

We have included a document entitled "A Garden as Bonsai" - a term originally used by the designer - that addresses the original design intent based on the background of the designer and his other relevant projects executed at the time using the same principles. We delved deeply into archival information from the park's origins, held by The Annie E. Casey Foundation. This information should give you a clear picture of the original and future intent for Waterfall Garden Park, the planting design that was more of a piece of Bonsai than a growing garden, trees, and bushes that were intended to be maintained according to set principles, most of which were lost along the way, and is the intent of The Annie E. Casey Foundation to restore.

Please note that the original site plan/landscape plan was included in the submittal as drawing L-102.

We do have the drawing set, which is very large; a link to it is included in the transmittal email.

2. Provide a plan that shows any trees or large bushes to be removed. If you have any arborist reports provide those.

Please note that the following landscape-relevant documents are included in this response:

(A) An arborist report from A Plus Tree Care and Sustainability LLC;
(B) A vegetation removal drawing L0.00;
(C) A Planting Plan 1.00;
(D) A landscape Lighting Plan L2.00;
(E) A landscape maintenance service agreement.

3. Provide light fixture replacement product sheets.

Cut sheets for the barrel vault, railing, and bench lights are included in this response. Specification cut sheet information for the landscape and water feature lights are included on sheet P-003.

4. Provide a color sample for the proposed paint.

Please see sheet A-301.

5. Provide more details of the plan for the art light fixture covers. How often is it proposed to change? Are these all the options, or just examples with no fixture proposed at this time?

A specific rotation plan has not been finalized due to the glass artists' schedules and funding cycles. We would assume, considering the cost of the fixtures, at least a five-year cycle. Please also note that the original globes will be preserved and stored if, in the future, it is determined that they need to be reinstalled.

6. Cleaning the glass and replacing it with the same material will be considered in-kind maintenance.

Understood. We included this task as an activity and work plan courtesy.

7. Cleaning the pavers and stone will be considered in-kind maintenance as long as the pressure is low so as not to damage the pavers and stone.
   Understood. We included this task as an activity and work plan courtesy.

Your application is incomplete. To complete your application, please submit the additional information above via your record in the Seattle Services Portal.

Please email the Board Coordinator at genna.nashem@seattle.gov with any questions.

Thank you for your comments.

Best wishes,

A GARDEN AS BONSAI

Bonsai aesthetics are the aesthetic goals characterizing the Japanese tradition of growing an artistically shaped miniature tree in a container, emphasizing the relationship between the physical and the metaphysical.

WATERFALL GARDEN PARK

The actual Bonsai – this natural Azalea Bonsai is fifty years old and on the north rock wall, to the right of the waterfall.

WHY WATERFALL GARDEN PARK REALLY MATTERS AND WHY IT NEEDS TO BE RESTORED TO ITS ORIGINAL CONCEPT WHILE EMBRACING THE REALITY OF A 21st-CENTURY EXISTENCE.

by H. Charles Fritzemeier, Architect

Waterfall Garden Park is a unique part of the Seattle urban streetscape. It is a pleasantly shocking surprise to those who find it, something that seems so out of place yet so much where it needs to be, and as such, often becomes a respite in their lives. This is what it was designed for: a lush Japanese-style garden guided by the concept of a tiny garden, scaled to be an interactive Bonsai. It was designed in the early 1970s by landscape architect Maso Kinoshita, a partner at Sasaki and Associates, Architects, and is part of his portfolio of "pocket parks" designed using Bonsai and Japanese Garden guiding principles.

Kinoshita's background is prescient to his work. He was born in California in 1925 but educated in Japan, returning to the U.S. at the age of 15. After World War II, he studied architecture, design, and history at Cornell University, Kyoto University, and Harvard. His life and education left him deeply rooted in aesthetics, particularly the simplicity of Zen and the composition of Bonsai, which impacted his garden designs throughout the states. Kinoshita's design approach is exemplified in the Waterfall Garden Park with its compact composition of water, stone, and plants.

Kinoshita's time in Japan provided a background that would translate into highly detailed garden compositions, arising from small urban lots. Designs such as Waterfall Garden Park and Greenacre Park are examples of his mastery of water, stone, and plants used in the Bonsai Tradition.

An example of a compact Bonsai Garden creating a Zen sanctuary space using water, stone, and plants as representations of greater nature.

Overview

Kinoshita strongly believed in the societal benefits of compact yet impactful parks in urban environments. Key to this was using small sites with carefully controlled elements, maintaining a shape and size. These spaces demonstrated that even small-scale parks could effectively provide respite from the noise and rigidity of urban cores.

Waterfall Garden Park, a 60 x 80-foot sanctuary, injects a high-contrast, tailored garden setting into the heart of Seattle's first central business district. As part of the Bonsai aesthetic, Kinoshita used moving water and its continuous sounds to screen out the urban noise and form a mental transition zone between urban and arboreal environments, thus the waterfall becomes a physical and psychological focus, rendering the park a contemplation space that was further enhanced by plantings intended to be maintained at a controlled level that enhanced the impact of the waterfall and its profound uniqueness, and did not grow into distractions that would take over the atmosphere. The emphasis here was on everything in its place and in balance, each element quietly performing a function masked by the noise of water as transformational.

Concept History

Kinoshita's design approach is exemplified in the Waterfall Garden Park with its compact composition of water, stone, and plants. There are contrasting elements of urban edge and wildness – the rigid arbor and maintained plantings in contrast to the uninhibited wildness of splashing water and the potentially overgrown street trees at the edge of the park. It is intended as an occupied Zen contemplation space, with Bonsai-like controlled plantings, pushed up against the natural appearance of the waterfall, similar to those found in the nearby Cascade and Olympic mountains. The highly stylized 70s arbor and rigid, confining fence strongly represent the built environment. It can also be viewed as a modern interpretation of a traditional Japanese garden with the addition of the contrast between highly maintained space and the torn edge of natural intervention; this became a dominant theme in 20th-century landscape architectural design.

Kinoshita's influences were deeply tied to his experience and education in Japanese garden design, or Nihon teien. This landscape art form emphasizes the minimalism of Bonsai, its rigid aesthetic harmony, and the seamless integration of natural and built elements. It is governed entirely by the triad of *underlying principles, compositional rules,* and *philosophical foundations*, rather than by aesthetic features alone, features that change over time and stray from the founding triad.

Core Principles

1. **Shakkei (Borrowed Scenery)**
    - Incorporates surrounding landscapes (mountains, forests, water bodies) into the garden design to create the illusion of a larger space.
    - Requires careful vantage point optimization so that external scenery aligns with internal design.

2. **Miniaturization (Microcosm)**
    - Gardens as a Bonsai model of larger natural landscapes in a reduced scale.
    - Rocks represent mountains; ponds mimic seas; trimmed vegetation represents forests.
    - Trees and shrubs are contained to maintain size, scale, and balance with stationary elements.
3. **Asymmetry and Imperfection (Wabi-Sabi)**
    - Non-uniform arrangements evoke natural imperfection and spontaneity.
    - Avoids artificial symmetry – uses uneven spacing or irregular modular patterns to retain naturalness.
4. **Seasonal and Temporal Dynamics (Shiki)**
    - Plant choices reflect seasonal changes, incorporating falling leaves, flowering, or moss development, creating a temporally evolving landscape.
    - This introduces a dynamic optimization challenge: design for multiple aesthetic states simultaneously.

Conclusion

Waterfall Garden Park was designed by a master of Japanese garden design philosophy, symbolism, geometry, and temporal dynamics. As such, Kinoshita fully embraced the principles of creating miniaturized urban gardens that rely heavily on Bonsai tactics of small representing large, kept under control to maintain appropriate size and scale, so as not to detract or overpower other elements in the holistic creation. Subtlety with elemental emphasis is the guiding principle, and the challenge is to balance this quality with the urban philosophical need to make the space visible, available, and attractive to a 21st-century public, because without the public, the space is nothing more than an attractive but maintained urban void. The idea is to let the waterfall work its magic while other parts invite and add subtle interest that whispers rather than screams; all very Zen, and Kinoshita would be proud.

SOURCES:

Annie E. Casey Foundation archives and interviews.

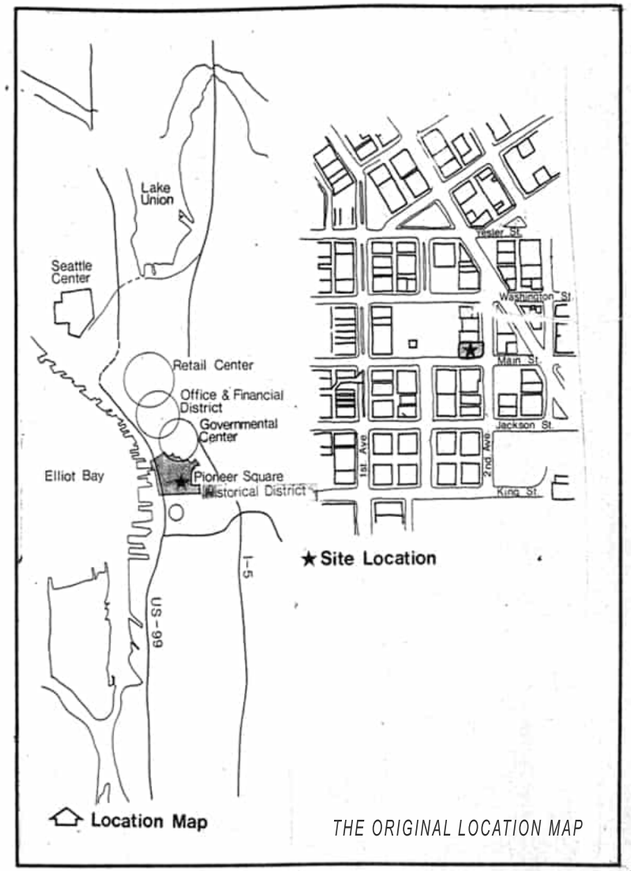
Japanese Garden Design, Takashi Sawano

Creating Japanese Gardens, Yoko Kawaguchi

THE ANNIE E. CASEY FOUNDATION

WATERFALL GARDEN

SOUTH MAIN ST. & SECOND AVE. SOUTH
SEATTLE, WASHINGTON



THE ORIGINAL LOCATION MAP

A HALF-CENTURY HAS PASSED:
REPAIRS AND UPGRADES FOR THE NEXT HALF-CENTURY

PROJECT TEAM

OWNER AND CARETAKER
THE ANNIE E. CASEY FOUNDATION
GEORGIANA SKARLATOS
GSKARLATOS@AECF.ORG

FACILITIES MANAGER
NORDIC PARTNERS
KEVIN FALK
KEVIN@NORDICINV.COM

GENERAL CONTRACTOR
PACIFIC BUILDING GROUP
BLAZE PATTISON
BPATTISON@PACIFICBUILD.COM

ARCHITECT
JED
PROJECT MAIN POINT OF CONTACT
CHARLES FRITZEMEIER
206.434.1100
HCFRITZEMEIER_1@OUTLOOK.COM

LANDSCAPE ARCHITECT
RICH LANDSCAPING
DAVID RILEY
DAVIDR@RICHLANDSCAPING.COM

RESTORATION, REPAIRS, UPGRADES

REVISIONS

Waterfall Garden Park
2749 43rd Ave S Seattle, WA 98144

PRELIMINARY

PROJECT NO
1348.11
DATE
11/09/05
DRAWING NO
CS -001

ALL PAVER AREAS TO BE BE DEEP CLEANED AND TREATED TO RESTORE ORIGINAL SURFACE & COLOR

DAMAGED PAVERS TO BE REPLACED

DUE TO THEFT AND CONTINUING DAMAGE TO SURROUNDING PAVERS DRAINS TO BE REPLACED WITH NEW BLACK ABS DRAIN ASSEMBLIES

TUCK POINTING TO BE EXECUTED AT ALL UNDER FILLED AND UNSTABLE JOINTS

1 L-111 **HARDSCAPE PLAN**
3/16" = 1'-0"

JED
JADE ENRICK DESIGN

REVISIONS

Waterfall Garden Park
2719 2nd Ave S Seattle, WA 98134
HARDSCAPE PLAN
PRELIMINARY

PROJECT NO
000
DATE
11/06/01
DRAWING NO
L - 111

(FULL SIZE: 22 X 34 - HALF SIZE: 11 X 17)

EXISTING BLDG
(LUCKNOW)

EXISTING BLDG

ALLEY

GLASS RAILING SYSTEM TO BE RESTORED TO ORIGINAL CONDITION. ALL GLASS CLEANED AND SEALED TO HIGH LEVEL TRANSPARENCY.. METAL SURFACES TO BE PREPARED, PRIMED AND PAINTED TO MATCH COLOR SELECTED FOR ALL METAL SURFACES

SEE SHEET A-113 FOR DETAIL

2ND AVE S

EXISTING SIDEWALK

ALL FINISHED GRANITE AREAS INCLUDING BUT NOT LIMITED TO BENCHES, EDGING, PLANTERS, STAIRS, CONTAINERS, CURBS, TROUGHS AND EXPOSED FOUNTAIN AREAS, TO BE BE DEEP CLEANED AND TREATED TO RESTORE ORIGINAL SURFACE & COLOR

ROUGH STACKED ROCK BOULDERS ARE TO REMAIN AS THEY ARE

TUCK POINTING AND CAULKING IS REQUIRED TO RESTORE/REPLACE DAMAGED AND MISSING MATERIAL AS DEEMED NECESSARY I TO PROPERLY SEAL AND STABILIZE STONE WORK AREAS

EXISTING SIDEWALK

S MAIN STREET

N

HARDSCAPE PLAN

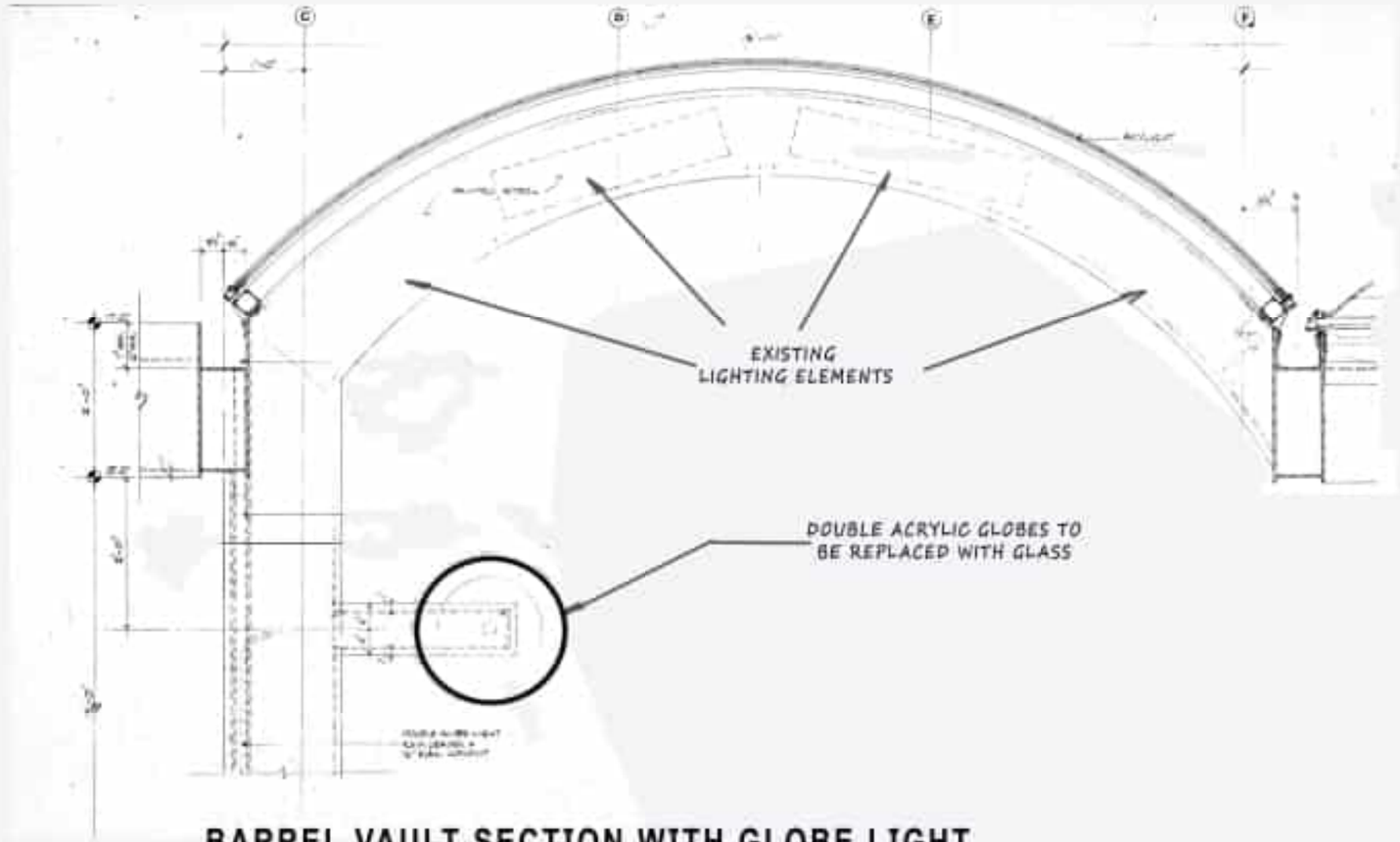
JED
JACK ENOCK DESIGN

REVISIONS

Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104
GRANITE AND RAILING RESTORATION
PRELIMINARY

PROJECT NO
1348.01
DATE
11/06/15
DRAWING NO
A - 112

(FULL SIZE: 22 X 34 - HALF SIZE: 11 X 17)



BARREL VAULT SECTION WITH GLOBE LIGHT

NOTE:

BARREL VAULT CURVED ACRYLIC PANELS ARE TO BE CLEANED, POLISHED, AND CONDITIONED TO BEST POSSIBLE ORIGINAL CONDITION.

ALL GASKETS AND SEALS THAT ARE IN POUR CONDITION ARE TO BE REPLACED.

ALL JOINTS ARE TO BE PROPERLY SEALED TO A WATERTIGHT CONDITION.

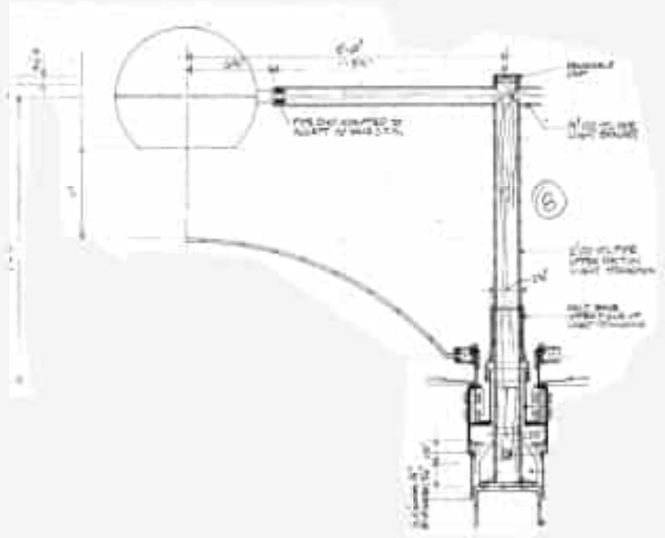
FAILING COMPONENTS ARE TO BE REPLACE WITH NEW PIECES AS CLOSE TO THE ORIGINAL AS POSSIBLE.

DOUBLE ACRYLIC FIXTURES ARE TO BE REPLACED WITH NEW GLASS FIXTURES.

LIGHTING IN ACRYLIC FIXTURES IS TO BE CONSISTANT LED WATTAGE AND COLOR.

LIGHTING IN ARCHED STEEL MEMBERS IS TO BE REPLACED WITH LED FIXTURES.

ELECTRICAL TO BE CHECKED FOR SAFETY AND UPGRADED AS NECESSARY.



TWO PIECE LIGHT STANCHION OVER WAFFLE SLAB PLEXI-DOME CEILING

NOTE:

EXISTING ACRYLIC DOMES TO BE CLEANED AND RECONDITIONED AS NECESSARY.

BROKEN AND DAMAGED ACRYLIC DOMES ARE TO BE REPLACED WITH SIMILAR APPROVED BY ARCHITECT.

JOINTS TO BE RECONDITIONED AS NECESSARY TO WATERTIGHT CONDITION.

LIGHT FIXTURES ARE TO BE CLEANED AND RECONDITIONED AS NEEDED.

LIGHTING IS TO MATCHING LED COLOR AND WATTAGE BULBS.

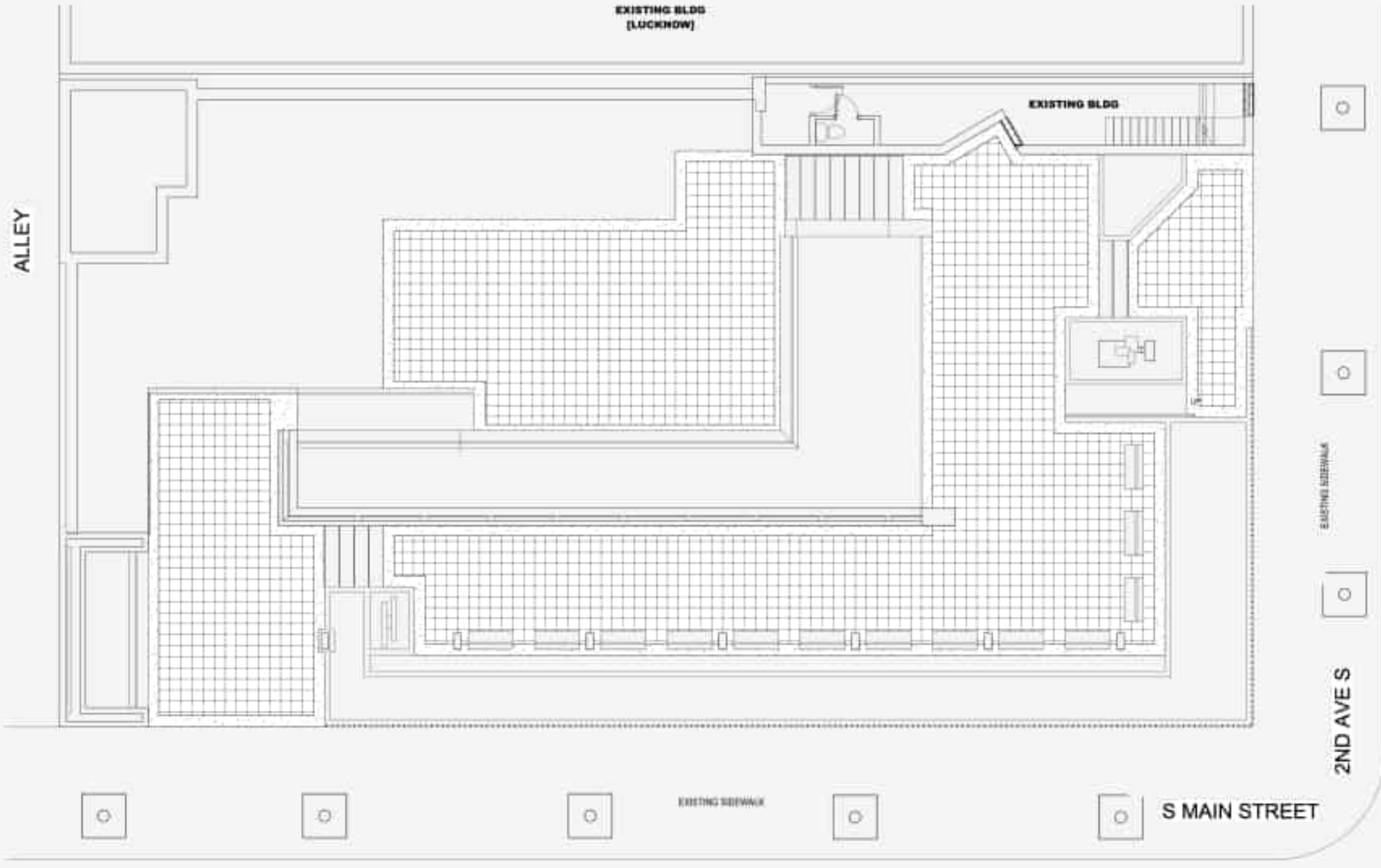
ELECTRICAL TO BE CHECKED FOR SAFETY AND REPLACED AS NECESSARY.

JED
JACK ENRICK DESIGN

REVISIONS

Waterfall Garden Park
2759 2nd Ave S Seattle, WA 98134
LIGHTING & BARREL VAULT REPAIRS
PRELIMINARY

PROJECT NO.
1360.31
DATE
11/09/21
DRAWING NO.
A-021



NOTE

ALL METAL SURFACES, INCLUDING BUT NOT LIMITED TO EXISTING FENCE PANELS, POSTS, LIGHT STATIONS, BARREL VAULT COMPONENTS, OVERHEAD FRAMING, AND COLUMNS, ARE TO BE PREPPED, PRIMED AS NEEDED, AND PAINTED COLOR BELOW.

A PREPAINTING WALK WITH THE ARCHITECT IS REQUIRED TO CLARIFY ANY QUESTIONS REGARDING WHAT SURFACES ARE TO BE PAINTED.

IF ADDITIONAL QUESTIONS ARISE REGARDING SURFACES TO PAINT, CONTACT THE ARCHITECT.

ALL SURROUNDING AREAS INCLUDING BUT NOT LIMITED TO WALKWAYS, BENCHES, RAILINGS, GLASS, TRIM, PLANTINGS OIL SURFACES, WALLS, WATERWAYS, AND SIDEWALKS, ARE TO BE PROTECTED FROM SPLATTER, ETC. IF SPLATTER OCCURS, IT MUST BE CLEANED UP IMMEDIATELY. IF THE ITEM IS MARRED OR DISCOLORED AS THE RESULT OF EITHER INADEQUIT CLEANING OR THE CLEANING ITSELF, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE THE AFFECTED ITEM OR ITEMS TO THE SATISFACTION OF THE OWNER. IF FOR ANY REASON THE ITEM OR ITEM CANNOT BE SATISFACTORIALLY RESTORED, FINANCIAL RESTITUTION SHALL BE MADE BY THE CONTRACTOR.

COLOR: SHERWIN-WILLIAMS
GRINDEL

N

JED
JACK ERICK DESIGN

REVISIONS

Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104

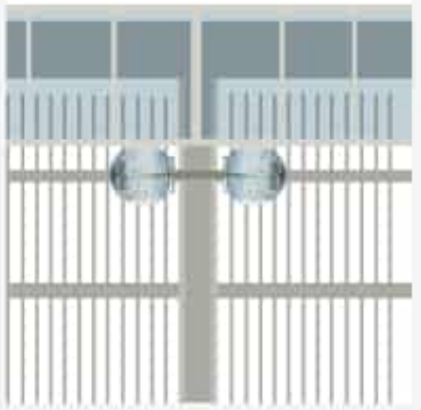
PAINTING PLAN

PRELIMINARY

PROJECT NO.
000
DATE
11/29/25
DRAWING NO
A - 301

The existing lighting globes are old and tired, stained and etched. The plastic has started to deteriorate. We would like to take advantage of this situation and turn it into an art opportunity. Western Washington is known for art glass, and we have been fortunate to establish a relationship with the Museum of Glass. This renowned institution will be supplying replacement light globes, expressing the diversity of this dynamic medium, changing over time, season, and inspiration.

Some of the options are shown below



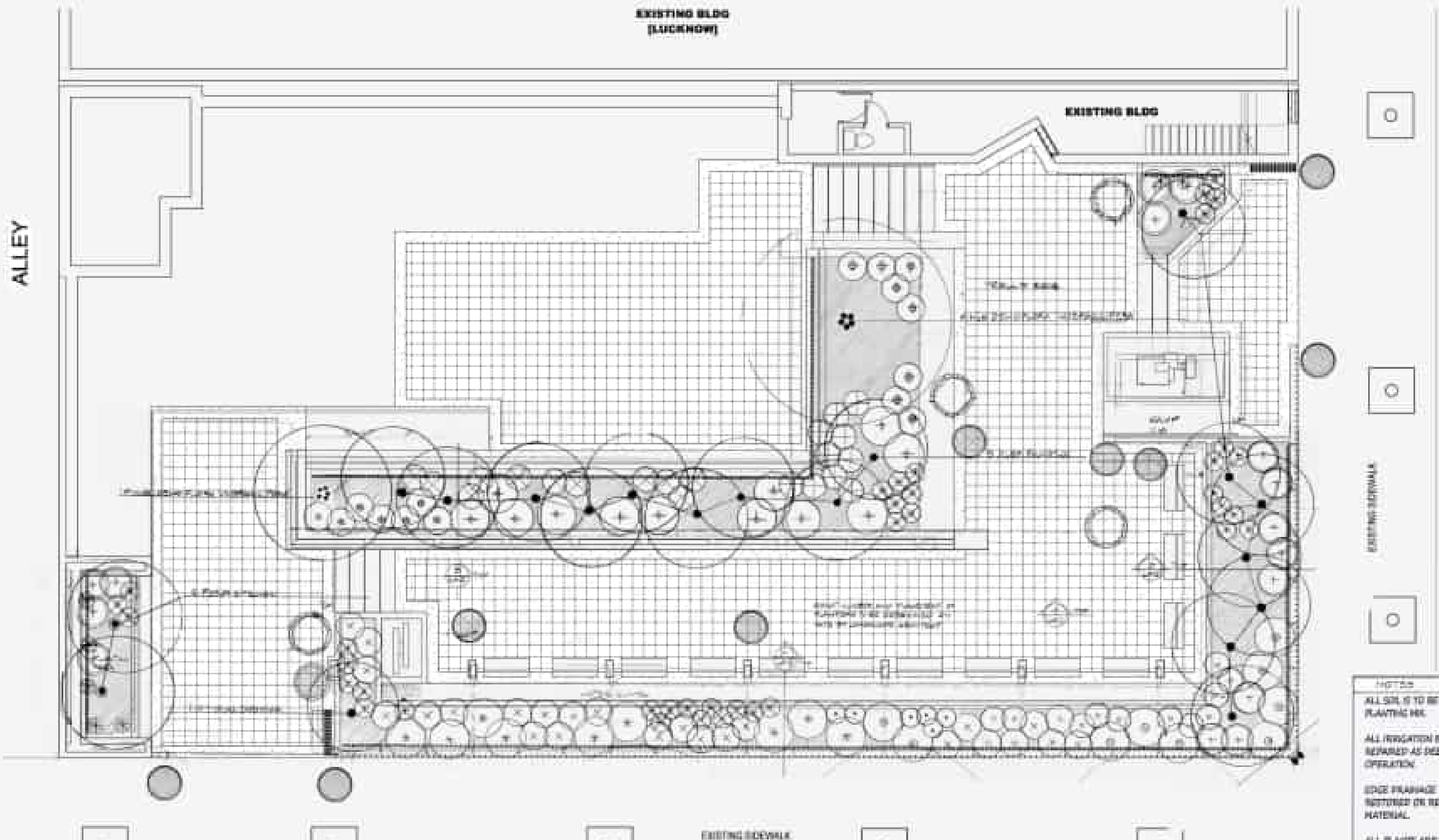
4

JED
JACK EMDE DESIGN

REVISIONS

Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104
LIGHTING REPAIRS
PRELIMINARY

PROJECT NO.
1360.31
DATE
11/29/25
DRAWING NO
A-022



LEGEND	QUANT	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	REMARKS
	[illegible]	Acer palmatum variety	Japanese Maple	[illegible]	B&B	Already tagged [illegible]
	1	[illegible]	[illegible]	[illegible]	B&B	Already tagged
	2	Pinus [illegible]	Pine	[illegible]	B&B	Already tagged
	5	[illegible]	[illegible]	[illegible]	B&B	Already tagged
	1	Styrax japonica	Japanese Snowbell Tree	[illegible]	B&B	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	B&B	
	36	Ilex crenata [illegible]	[illegible] Japanese Holly	[illegible]	B&B	Other variety may be approved
	23	[illegible]	[illegible]	[illegible]	B&B	
	[illegible]	Pieris [illegible]	[illegible] Pieris	[illegible]	B&B	[illegible]
	5	Pieris japonica	Japanese Pieris	[illegible]	B&B	[illegible]

LEGEND	QUANT	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	REMARKS
	13	Rhododendron sp. var. TBA	Rhododendron	[illegible]	B&B	[illegible]
	[illegible]	Rhododendron sp. var. TBA	Rhododendron	[illegible]	B&B	[illegible]
	11	Rhododendron [illegible]	[illegible] Rhododendron	[illegible]	B&B	
	5	Rhododendron sp. Azalea var. TBA	Azalea	[illegible]	B&B	[illegible]
	10	Rhododendron sp. Azalea var. TBA	Azalea	[illegible]	B&B	[illegible]
	8	Sarcococca hookeriana humilis	Fragrant Sarcococca	[illegible]	B&B	
	7	Viburnum davidii	David Viburnum	[illegible]	B&B	
	[illegible]	Parthenocissus tricuspidata [illegible]	[illegible] Creeper	[illegible]	B&B	[illegible]
	[illegible]	Liriope spicata	Lily Turf	[illegible]		

NOTES

ALL SOIL IS TO BE REMOVED AND REPLACED WITH NEW PLANTING MIX.

ALL IRRIGATION IS TO BE EXTENDED, REPLACED, REPAIRED AS DEEMED NECESSARY FOR PROPER OPERATION.

EDGE DRAINAGE: ORIGINAL GRAVEL STRIP IS TO BE RESTORED OR REPLACED WITH OTHER DRAINAGE MATERIAL.

ALL PLANTS ARE TO BE SELECT QUALITY EXTRA HEAVY SPECIMENS TO BE TAGGED BY LANDSCAPE AND APPROVED BY ARCHITECT. ARCHITECT WILL APPROVE ALL FINAL SELECTIONS.

CONTRACTOR MAY MAKE SUGGESTIONS REGARDING SELECTIONS BASED ON VIABILITY OF SPECIES ORIGINALLY SELECTED.

GRANITE PLANTER WITH EVERGREEN GROUNDCOVER [illegible]

[illegible]

ABBREVIATIONS AND KEY

TBA TO BE SELECTED [illegible] BY LANDSCAPE ARCHITECT

SP. SPECIES

[illegible]

CAL. CALIPER

B&B BALL AND BURLAP

[illegible]

PLANTING PLAN

JED
JACK EMICK DESIGN

REVISIONS

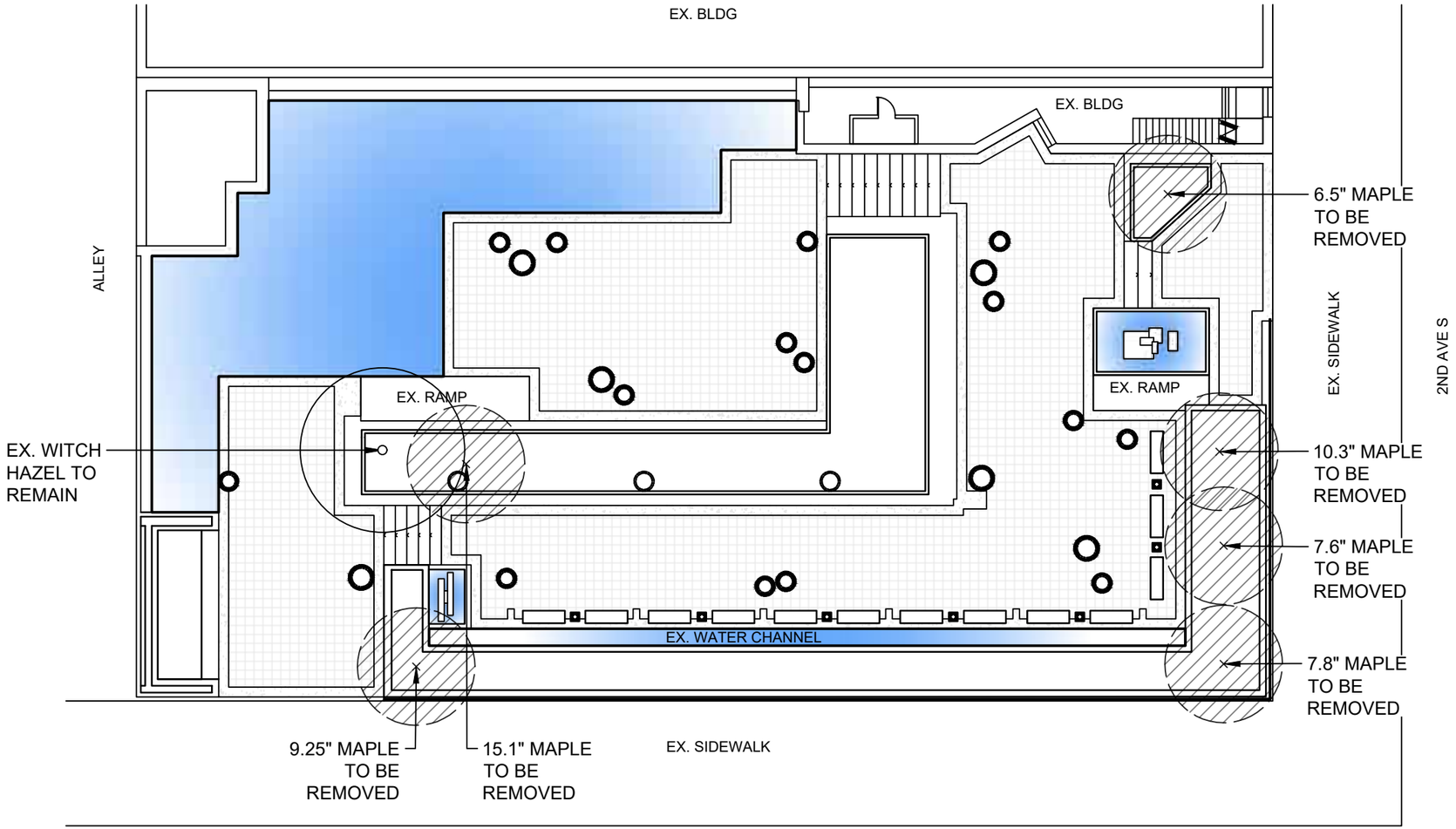
Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104

PLANTING PLAN
PRELIMINARY

PROJECT NO
1360.31

DATE
[illegible]

DRAWING NO
L-102



NOTE: AN ON-SITE MEETING SHALL BE CONDUCTED W/ THE CONTRACTOR AND ARCHITECT PRIOR TO ANY PREPARATION OR REMOVALS OCCURS

THIS DOCUMENT IS NON-CONTRACTABLE.
FOR SCHEMATIC DESIGN ONLY

0 20 40 60 feet

SCALE: 1" = 20'

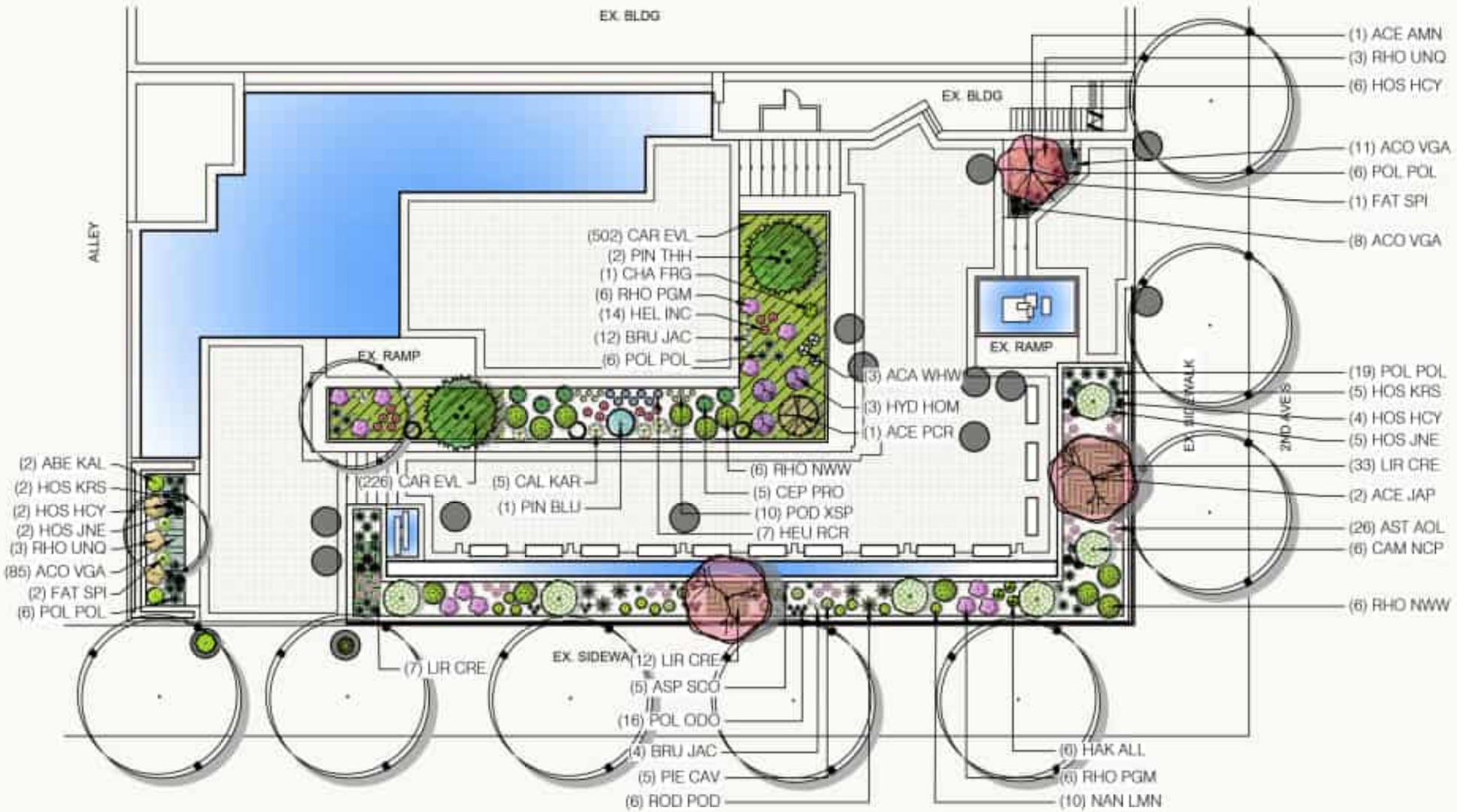
RICH LANDSCAPING
27901 Redmond-Fall City Rd NE
Redmond, WA 98053
(425) 222-9544
www.richlandscaping.com

PROJECT
Waterfall Garden Park
219 2nd Ave S, Seattle, WA 98104
Pacific Build Group
14450 NE 29th Pl. Ste. 116
Bellevue WA 98007

NORTH

DESIGNED BY MW
SCALE 1" = 20'-0"
DATE 04/22/2025
SHEET DEMO PLAN

L0.00



THIS DOCUMENT IS NON-CONTRACTABLE.
FOR SCHEMATIC DESIGN ONLY

0 20 40 60 feet

SCALE: 1" = 20'

RICH LANDSCAPING

PROJECT

NORTH

DESIGN

SCALE 1" = 20'-0"

DATE

SHEET
SCHEMATIC
Planting Plan

L2.00

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	QTY
DECIDUOUS TREES			
	ACE JAP	Acer japonicum 'Aconitifolium' / Fernleaf Fullmoon Maple	2
	ACE PCR	Acer palmatum 'Peaches & Cream' / Peaches & Cream Japanese Maple	1
	ACE AMN	Acer shirasawanum 'Autumn Moon' / Autumn Moon Fullmoon Maple	1
EVERGREEN TREES			
	CHA FRG	Chamaecyparis obtusa 'Fernspray Gold' / Fernspray Gold Hinoki False Cypress	1
	PIN LA2	Pinus contorta latifolia 'Chief Joseph' / Chief Joseph Lodgepole Pine	1
	PIN BLU	Pinus strobus 'Blue Shag' / Blue Shag White Pine	1
	PIN THH	Pinus thunbergii 'Thunderhead' / Thunderhead Japanese Black Pine	2
SHRUBS			
	ABE KAL	Abelia x grandiflora 'Kaleidoscope' / Kaleidoscope Glossy Abelia	2
	CAM NCP	Camellia japonica 'Nuccio's Pearl' / Nuccio's Pearl Camellia	6
	CEP PRO	Cephalotaxus harringtonia 'Prostrata' / Prostrate Plum Yew	5
	DAP ODO	Daphne odora / Winter Daphne	1
	FAT SPI	Fatsia japonica 'Spider's Web' / Spider' s Web Japanese Fatsia	3
	HYD HOM	Hydrangea macrophylla 'Balmacleaver' / Eclipse® Bigleaf Hydrangea	3
	NAN LMN	Nandina domestica 'Lemon-Lime' / Lemon-Lime Heavenly Bamboo	10
	PIE CAV	Pieris japonica 'Cavatine' / Cavatine Japanese Pieris	5
	RHO NWW	Rhododendron x 'Percy Wiseman' / Percy Wiseman Rhododendron	12
	RHO PGM	Rhododendron x 'Purple Gem' / Purple Gem Rhododendron	12
	RHO UNQ	Rhododendron x 'Unique' / Unique Rhododendron	6
FERNS			
	ASP SCO	Asplenium scolopendrium / Hart's Tongue Fern	5
	POL POL	Polystichum polyblepharum / Japanese Tassel Fern	37
GRASSES			
	CAL KAR	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass	5
	HAK ALL	Hakonechloa macra 'All Gold' / All Gold Japanese Forest Grass	6
PERENNIALS			
	ACA WHW	Acanthus x 'Whitewater' / Whitewater Bear's Breech	3
	AST AOL	Astilbe x rosea 'Peach Blossom' / Peach Blossom Astilbe	26
	BRU JAC	Brunnera macrophylla 'Jack Frost' / Jack Frost Siberian Bugloss	16
	HEL INC	Helleborus x glandorfensis 'COSEH 4000' / HGC® Ice N' Roses® Early Rose Hellebore	14
	HEU RCR	Heuchera x 'Black Forest Cake' / Black Forest Cake Coral Bells	7
	HOS JNE	Hosta x 'June' / June Hosta	7
	HOS KRS	Hosta x ' Krossa Regal' / Krossa Regal Hosta	7
	HOS HCY	Hosta x 'Halcyon' / Halcyon Hosta	12
	POD XSP	Podophyllum x 'Spotty Dotty' / Spotty Dotty Mayapple	10
	POL ODO	Polygonatum odoratum 'Variegatum' / Variegated Solomon's Seal	16
	ROD POD	Rodgersia podophylla / Rodgersia	6

SYMBOL	CODE	BOTANICAL / COMMON NAME	SPACING	QTY
GROUND COVERS				
	ACO VGA	Acorus calamus 'Variegatus' / Striped Sweet Flag	12" o.c.	104
	CAR EVL	Carex oshimensis 'Everillo' / EverColor® Everillo Japanese Sedge	12" o.c.	728
	LIR CRE	Liriope spicata / Creeping Lilyturf	24" o.c.	52

DOCUMENT IS NON-CONTRACTABLE.
SCHEMATIC DESIGN ONLY

RICH LANDSCAPING
27901 Redmond-Fall City Rd NE
Redmond, WA 98053
(425) 333-0644

PROJECT
Waterfall Garden Park
219 2nd Ave S
Seattle, WA 98104

DESIGNED BY
SCALE
DATE 02/18/
SHEET
SCHEMATIC
PLANT SCHEDULE

L2.2

Acer japonicum `Aconitifolium`
Fernleaf Fullmoon Maple

Acer palmatum 'Peaches & Cream'
Peaches & Cream Japanese Maple

Acer shirasawanum 'Autumn Moon'
Autumn Moon Fullmoon Maple

Chamaecyparis o. 'Fernspray Gold'
Fernspray Gold Hinoki False Cypress

Pinus c. latifolia 'Chief Joseph'
Chief Joseph Lodgepole Pine

Pinus strobus 'Blue Shag'
Blue Shag White Pine

Pinus thunbergii 'Thunderhead'
Thunderhead Japanese Black Pine

Abelia x grandiflora 'Kaleidoscope'
Kaleidoscope Glossy Abelia

Camellia japonica 'Nuccio's Pearl'
Nuccio's Pearl Camellia

Cephalotaxus harringtonia 'Prostrata'
Prostrate Plum Yew

Daphne odora
Winter Daphne

Fatsia japonica 'Spider's Web'
Spider' s Web Japanese Fatsia

Hydrangea m.'Bailmacseven'
Eclipse® Bigleaf Hydrangea

Nandina domestica 'Lemon-Lime'
Lemon-Lime Heavenly Bamboo

Pieris japonica 'Cavatine'
Cavatine Japanese Pieris

Polygonatum odoratum 'Variegatum'
Variegated Solomon's Seal

Rhododendron x 'Percy Wiseman'
Percy Wiseman Rhododendron

Rhododendron x 'Purple Gem'
Purple Gem Rhododendron

Rhododendron x 'Unique'
Unique Rhododendron

Asplenium scolopendrium
Hart's Tongue Fern

Polystichum polyblepharum
Japanese Tassel Fern

Calamagrostis x a.'Karl Foerster'
Karl Foerster Feather Reed Grass

Hakonechloa macra 'All Gold'
All Gold Japanese Forest Grass

Acanthus x 'Whitewater'
Whitewater Bear's Breech

Astilbe x rosea 'Peach Blossom'
Peach Blossom Astilbe

Brunnera macrophylla 'Jack Frost'
Jack Frost Siberian Bugloss

Helleborus x g.'COSEH 4000'
Ice N' Roses® Early Rose Hellebore

Heuchera x 'Black Forest Cake'
Black Forest Cake Coral Bells

Hosta x 'June'
June Hosta

Hosta x 'Krossa Regal'
Krossa Regal Hosta

Hosta x 'Halcyon'
Halcyon Hosta

Podophyllum x 'Spotty Dotty'
Spotty Dotty Mayapple

Rodgersia podophylla
Rodgersia

Acorus calamus 'Variegatus'
Striped Sweet Flag

Carex oshimensis 'Everillo'
EverColor® Everillo Japanese Sedge

Liriope spicata
Creeping Lilyturf

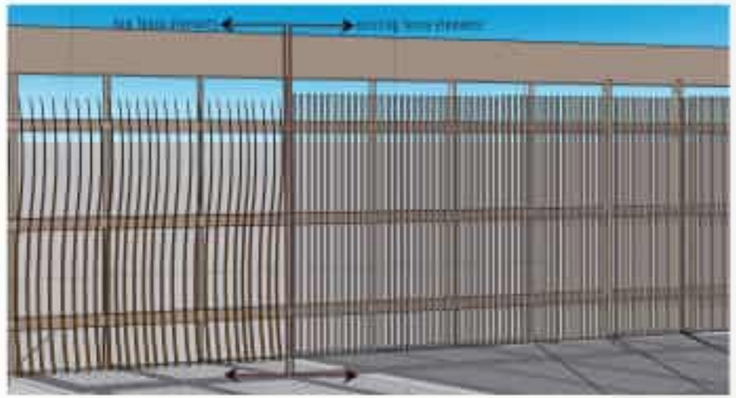
A CHANGE TO SOME OF THE SURROUNDING FENCE PANELS

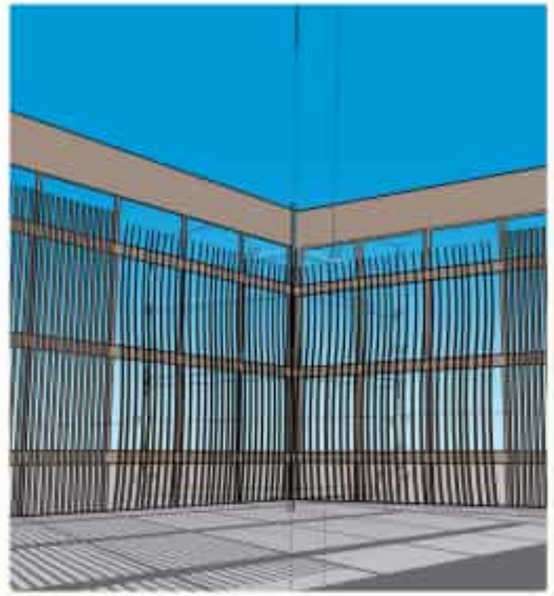
Visitor comments often mention the uninviting “prison-like” nature of the fence - a stylistic throwback to the 60s design notion of “simple straight lines, and repetitive rhythms.” We would like to replace the panels at the street corner and the two entries with something less stringent, something more flowing, Zen, letting in more light, in keeping with the design intent in a contemporary way. Corten steel would be used as an organic, changing material, and the forms would suggest waving grasses while maintaining site security.

The original panels would be stored, if deemed appropriatein the future, a change back to the original panels could be made.

CORTEN STEEL

Typical installation

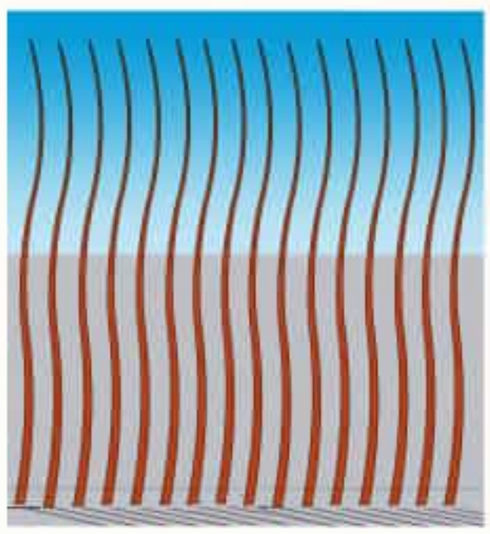




Existing major horizontal and vertical framework

Subtle and organic change from the inside, but, for those that look and see, a noticable change from the outside.

View to southeast corner from the north entry



Corten vertical waves

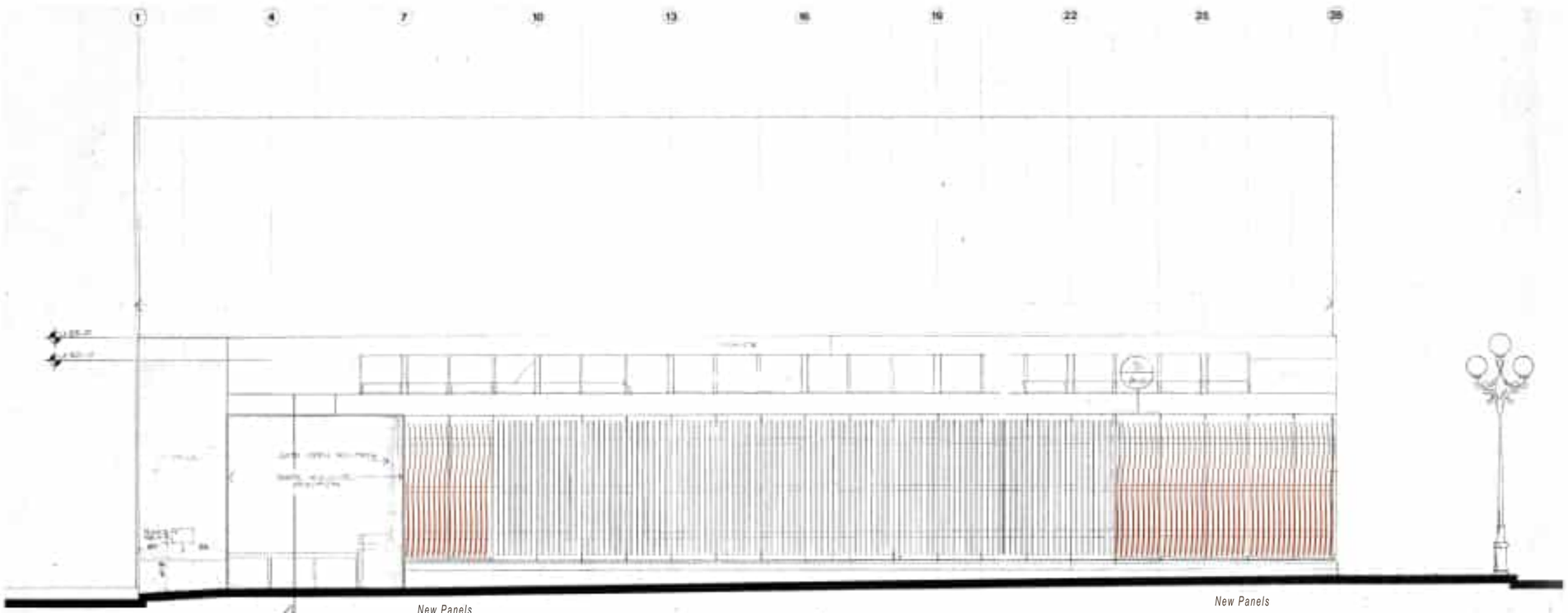
View to the southeast corner with more light.

JED
JACK EMICK DESIGN

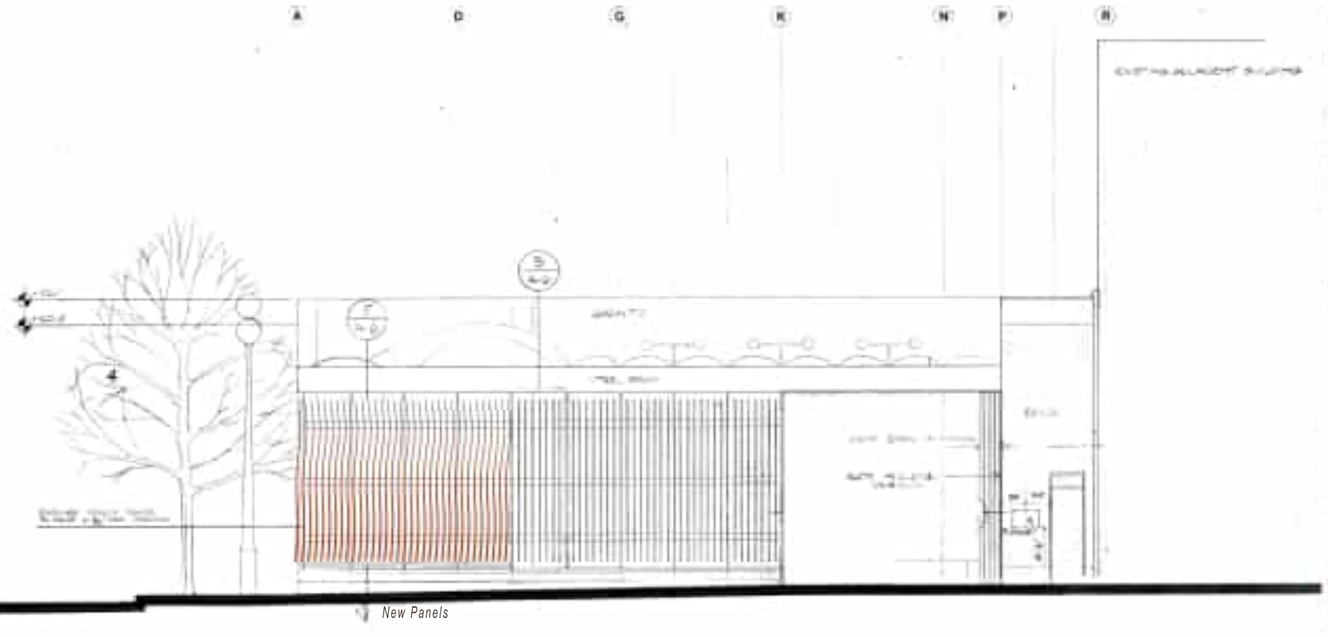
REVISIONS

Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104
FENCE PANELS
PRELIMINARY

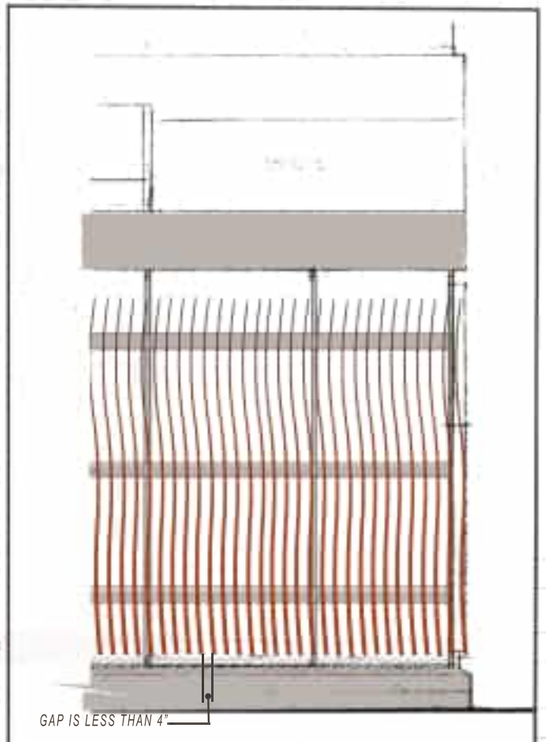
PROJECT NO.
60.31
DATE
11/29/25
DRAWING NO
A-500



South Elevation



East Elevation



Panel Concept
Corten wavy grass

JED
JACK ENRICK DESIGN

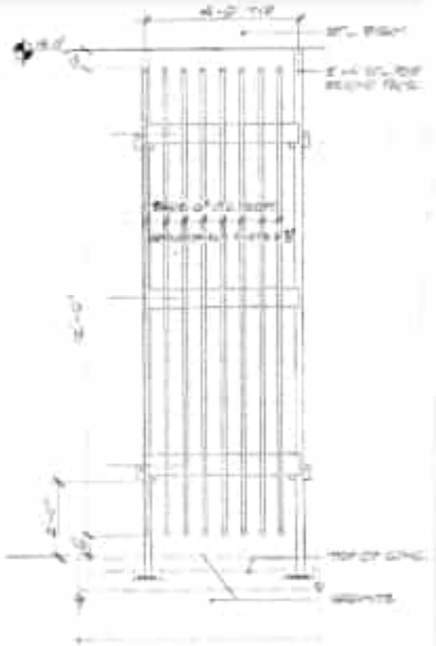
REVISIONS

NO.	DATE	DESCRIPTION

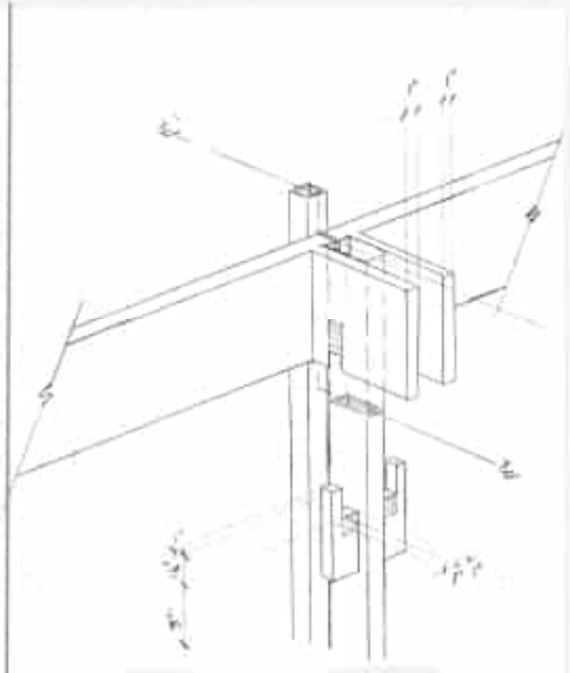
Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104

FENCE ELEVATIONS
PRELIMINARY

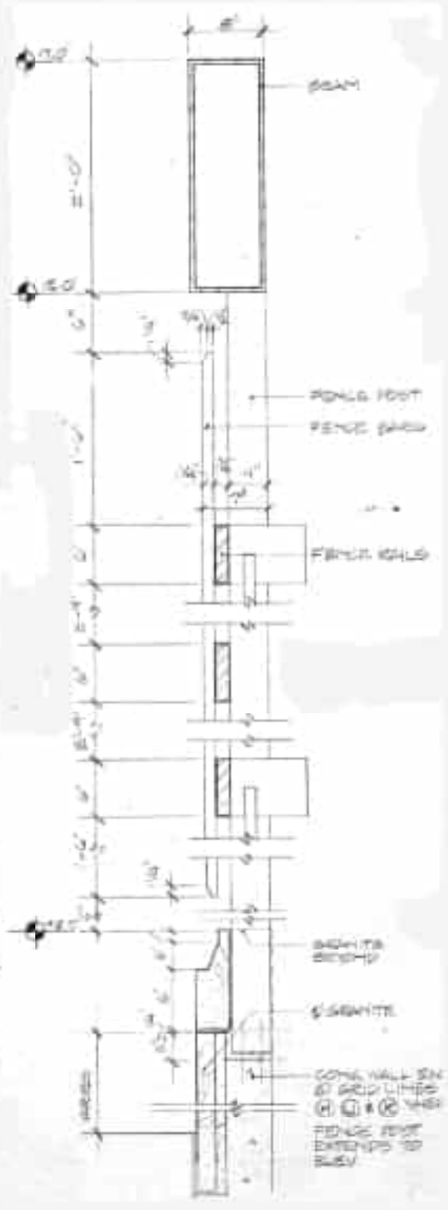
PROJECT NO.
1360.31
DATE
11/29/25
DRAWING NO
A-011



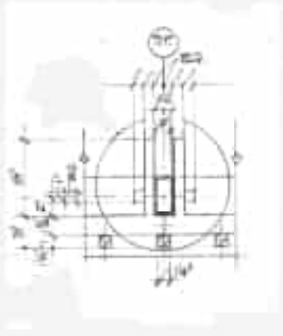
EXISTING FENCE PANEL ELEVATION



TYP PANEL POST CONNECTION



FENCE SECTION



TYP POST

JED
JACK ENGE DESIGN

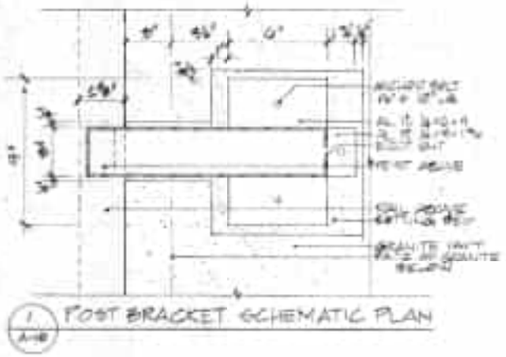
REVISIONS

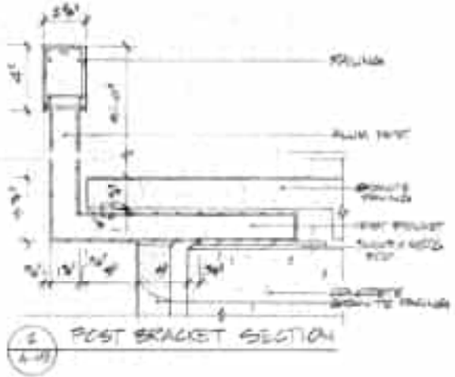
Waterfall Garden Park
2759 23rd Ave S Seattle, WA 98144

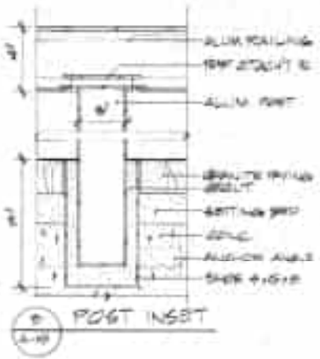
FENCE DETAILS EXISTING CONDITION

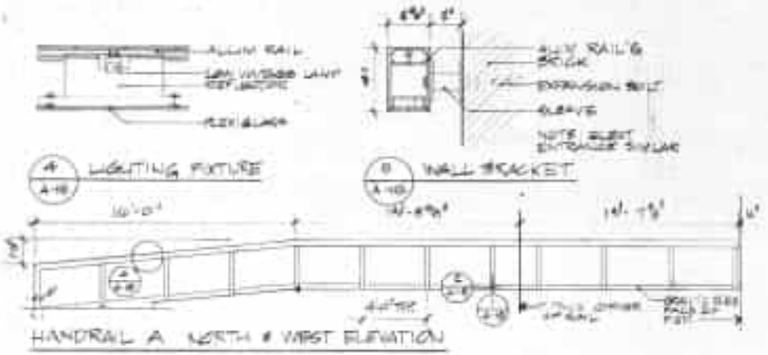
PRELIMINARY

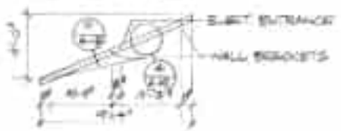
PROJECT NO
1360.31
DATE
11/09/05
DRAWING NO
A-011

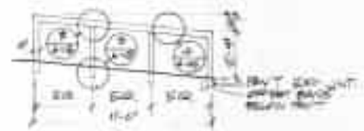


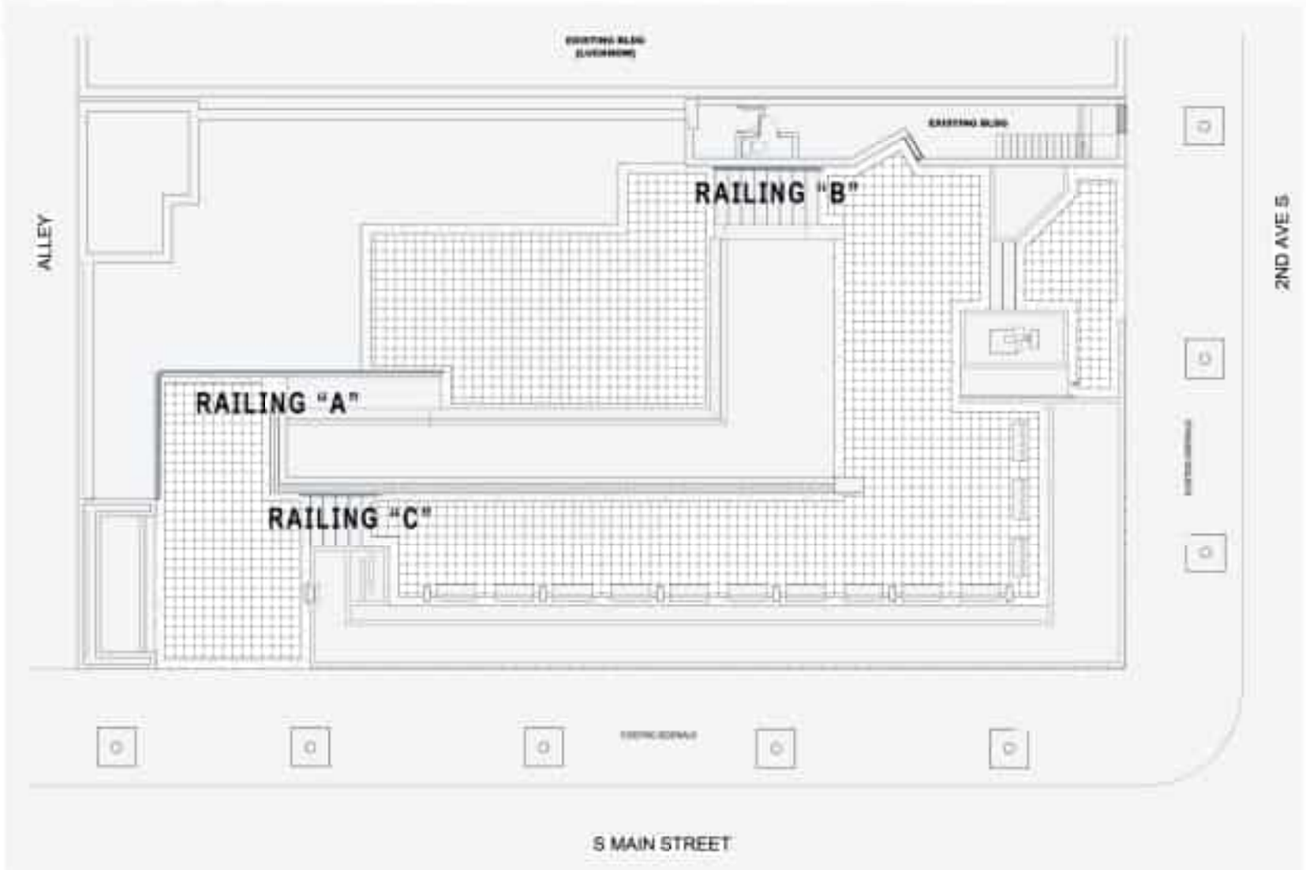












NOTE: HANDRAILS OCCUR IN THREE AREAS - AT THE WATER FALL, AT THE NORTHEAST STAIRWAY AND AT THE SOUTHWEST ENTRY STAIRS.

HANDRAIL ASSEMBLY TO BE REPAINTED PER PAINT SELECTION THIS INCLUDES STRIPPING, PREPING, PRIMING, AND TOP COATING.

IN THOSE SYSTEMS THAT HAVE GLASS RAILING PANELS. THEY ARE TO BE THOROUGHLY CLEANED ANDCOATED, RESTORING ORIGINAL FINISH AND CLARITY.

ANY DEFECTIVE COMPONENTS ARE TO BE REPAIRED OR REPLACED.

LIGHTING IN THE TOP HANDRAIL IS TO BE RESTORED AND NEW LED BULBS ARE TO REPLACE EXISTING.

JED
JACK ENGE DESIGN

REVISIONS

Waterfall Garden Park
2719 2nd Ave S Seattle, WA 98134
HANDRAIL DETAILS
PRELIMINARY

PROJECT NO
1348.31
DATE
11/09/01
DRAWING NO
A - 113

NEW SITE FURNITURE

NOTE: THE ORIGINAL HEAVY CAST SHORT TABLES WILL REMAIN; THE CURRENT REPLACEMENT ALUMINUM CHAIRS WILL BE REPLACED WITH THE NEW FRENCH BISTRO FURNITURE.

COLOR CHOICES

JED
JACK EMICK DESIGN

REVISIONS

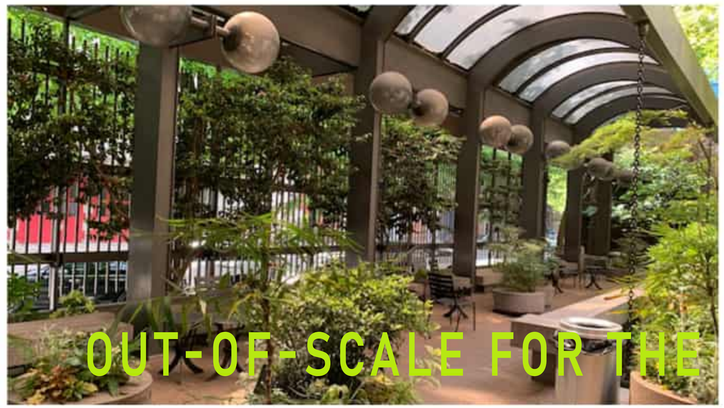
NO.	DATE	DESCRIPTION

Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104
SITE FURNITURE
PRELIMINARY

PROJECT NO.
1360.31
DATE
11/29/25
DRAWING NO
A - 401

CONRNER CLUTTER OVERSCALE POT PLANTINGS LEGGY TOP-HEAVY PLANTINGS

SCRAGGLY OVERGROWN

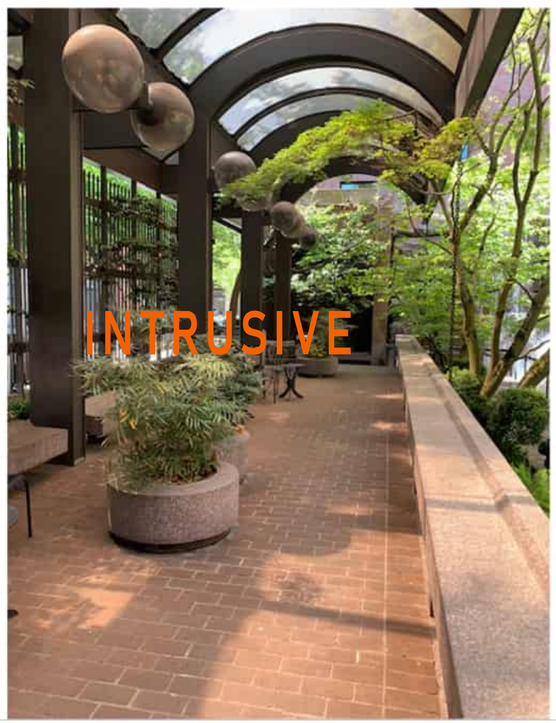


OUT-OF-SCALE FOR THE SPACE PLANTINGS

DEAD ZONES

OVERGROWN

SICKLY



INTRUSIVE

OVERGROWN, UNCONTROLLED PLANTINGS

During the 60's and 70's SASAKI's firm completed a series of gardens and parks treated as Bonsais - that was the intent for this project - a small park treated as a Bonsai.

The maintenance fell short and now the plantings are over-grown.

JED

JACK EMICK DESIGN

Architecture+Interiors+planning

REVISIONS

NO	DATE	DESCRIPTION

Waterfall Garden Park

219 2nd Ave S Seattle, WA 98104

PROJECT NO.

DATE

APRIL 8, 2026

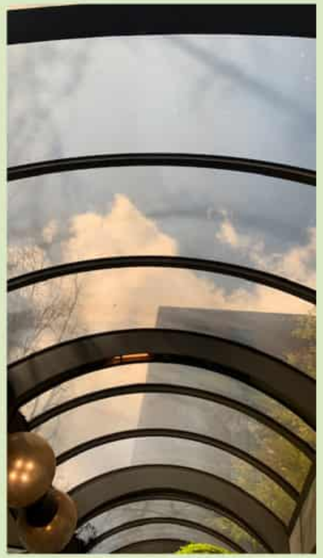
DRAWING NO

P-001

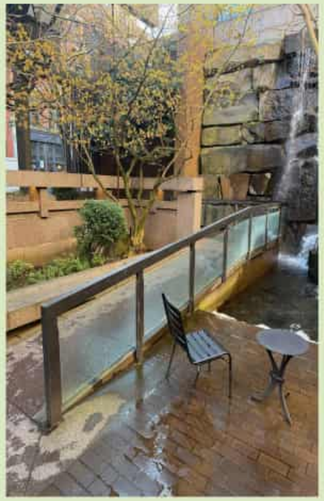
(FULL SIZE: 22 x 34 - HALF SIZE: 11 x 17)

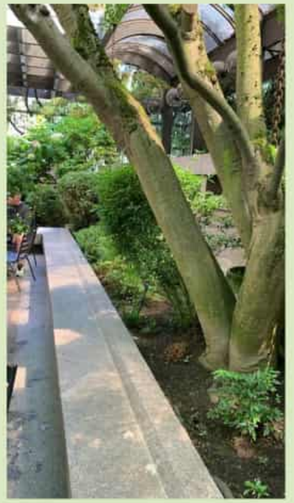
REPLACE THE CHAIRS BROUGHT IN DURING THE 2010s WITH SOMETHING OF HIGHER QUALITY THAT ADD A BIT OF MOVEABLE COLOR

DEEP CLEAN &POLISH THE GLASS RAILINGS REMOVING THE LIME DEPOSITS, THEN APPLY A RAIN-X COATING & MAINTAIN IT



DEEP CLEAN, REPAIR OR REPLACE DAMAGED OVERHEAD PANELS





DEEP CLEANING OF ALL STONE AND PAVER SURFACES, RESTORING ORIGINAL COLOR.

TUCK POINTING PAVERS

RESEALING GRANITE JOINTS

JED
JACK EMICK DESIGN
Architecture+Interiors+planning

REVISIONS

NO	DATE	DESCRIPTION

Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104

PHOTOS OF EXISTING CONDITIONS

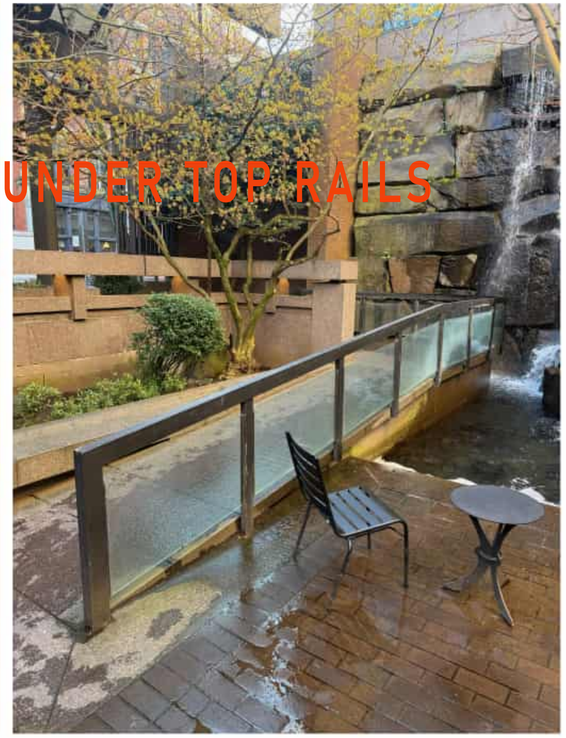
PROJECT NO.

DATE
APRIL 8, 2026

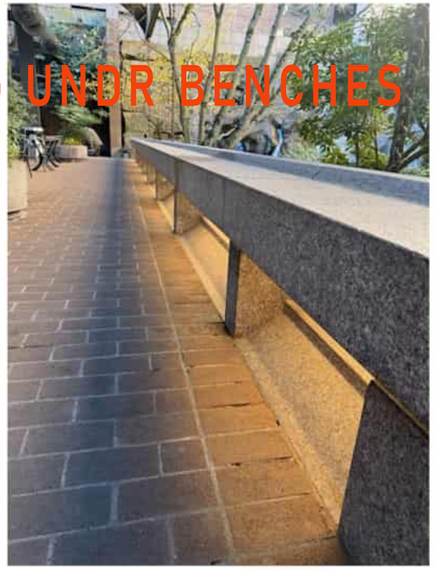
DRAWING NO
P-002

LIGHTING REPAIRS

REPAIR LIGHTING UNDER TOP RAILS



REPAIR LIGHTING UNDR BENCHES



REPLACE/REPAIR
LIGHTING IN VAULT MEMBERS.

REPLACE DAMAGED/
DETERIORATED SPHERE LIGHTS

REPLACE NON-FUNCTIONAL
GROUND LIGHTS

REPLACE NON-FUNCTIONAL
WATER LIGHTS

NORELCO EP8900

- 100% Full Cast Brass Body
- SAFE 110V LED Power
- Adjustable Direction
- Black Brass Finishes
- Heat Resistant Clear Lens

Pentair IntelliBrite 601302
White LED 120V, 55W, 100'
with Stainless Steel Face Ring
Pool Light EC-601302 5G

JED
JACK EMICK DESIGN
Architecture • Interiors • planning

REVISIONS

NO	DATE	DESCRIPTION

Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104

PHOTOS OF EXISTING CONDITIONS

PROJECT NO.

DATE
APRIL 8, 2026

DRAWING NO
P-003

The existing dark exterior corner - Main and Second







We would like to enliven the fence from inside and out;
not lose the Zen quality, but enhance it.
Street trees have contributed to the darkness and disquise,
well beyond anything anticipated by the original designers,
creating a “substation” effect. WHAT IS REALLY IN THERE?


SOLUTIONS: lighter paint and shape/color/texture change at corner and west entry.

JED
JACK EMICK DESIGN
Architecture • Interiors • planning

REVISIONS

NO	DATE	DESCRIPTION

Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104

PHOTOS OF EXISTING CONDITIONS

PROJECT NO.

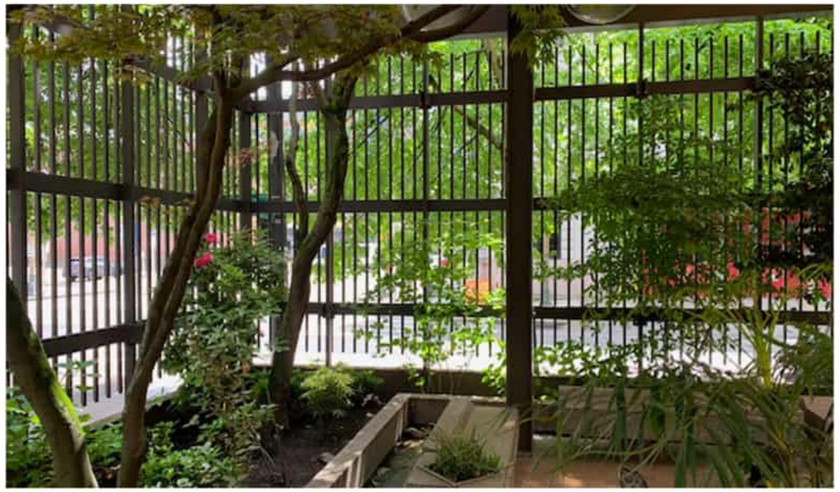
DATE
APRIL 8, 2026

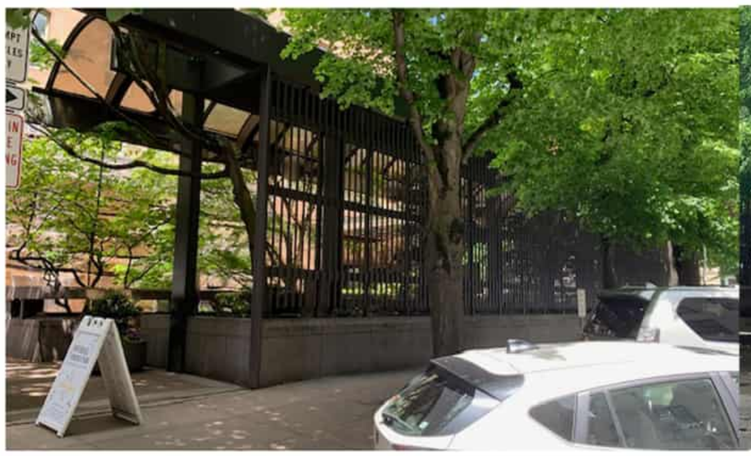
DRAWING NO
P-004

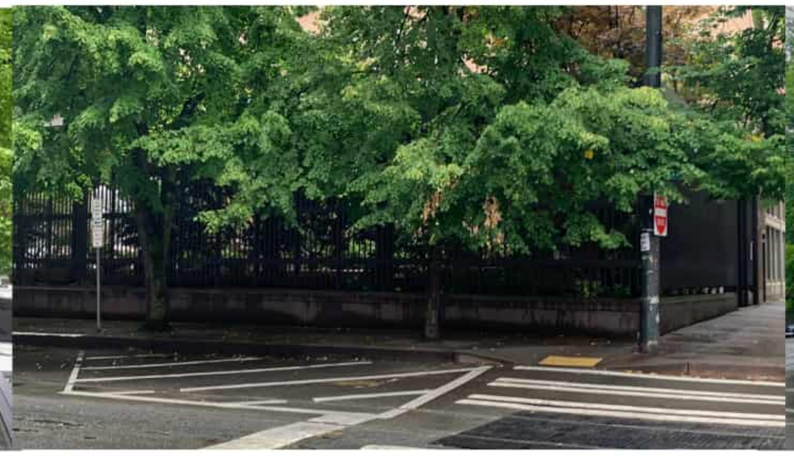
Stockade affect

Sasaki and Kenoshita were both children of their times and education, and the original design emphasized 70's modernist repetative simple, geometric elements combined with a Zen austere aesthetic.

In today's context the dark paint and prison-bar-like verticals suggest a stockade rather than security and sharpness.







JED
JACK EMICK DESIGN
Architecture+Interiors+planning

REVISIONS

NO	DATE	DESCRIPTION

Waterfall Garden Park
219 2nd Ave S Seattle, WA 98104

PHOTOS OF EXISTING CONDITIONS

PROJECT NO.

DATE
APRIL 8, 2026

DRAWING NO
P-005

LSMW-30

3W OUTDOOR FLEXIBLE LED STRIP

UPDATED: 07.08.25

Project _____

Location _____

Quote/ Ref # _____

LSMW-30 is an outdoor flexible LED strip that delivers 250 lumens at 3.0 Watts per ft. This LED strip is rated to last 50,000 hours making it an excellent replacement for halogen lighting. This product is suitable for use in most residential and commercial applications, it is easy to install. Offered in different CCT options with superior CRI.

SPECIFICATIONS

INPUT VOLTAGE	12V | 24V DC
POWER CONSUMPTION	3W per Ft.
NO. OF LEDS	36 LEDs per Ft.
LUMEN OUTPUT	223 Lm/Ft. (3000K)
CRI	95+
COLOR TEMPERATURE	22K / 24K / 27K / 30K / 35K / 40K / 50K 60K / RD / BL / GR / PK / PR / AM / OR
DIMMING	MLV, ELV, 0-10 and TRIAC
MAXIMUM RUN LENGTH	16.4 Ft. (12V) | 24 FT. (24V)
CUTTABLE	Every 1 in (25.4mm) (12V) Every 1.96 in (49.9mm) (24V)
BINNING	1.5 Step Macadam Elipse
OPERATING TEMPERATURE	-40°F (-40°C) ~ +140°F (+60°C)
BEAM ANGLE	120°
IP RATING	IP65 wet location (outdoor)
CERTIFICATIONS	UL Listed, TITLE 24 JA8
LUMEN MAINTENANCE	50,000 Hrs.

*Approved for closet / storage space installation per NEC 410. 16(A)(3) and 410.16(C)(5)

LUMENS

CCT	LM/ FT	CRI	R9	R13
2200K	217	87	46	91
2400K	227	94	78	97
2700K	234	96	86	98
3000K	223	95	87	98
3500K	233	93	83	96
4000K	241	95	99	99
5000K	252	94	95	98
6000K	265	87	68	92

OUTDOOR 95+ CRI DIMMABLE CUTTABLE LISTED

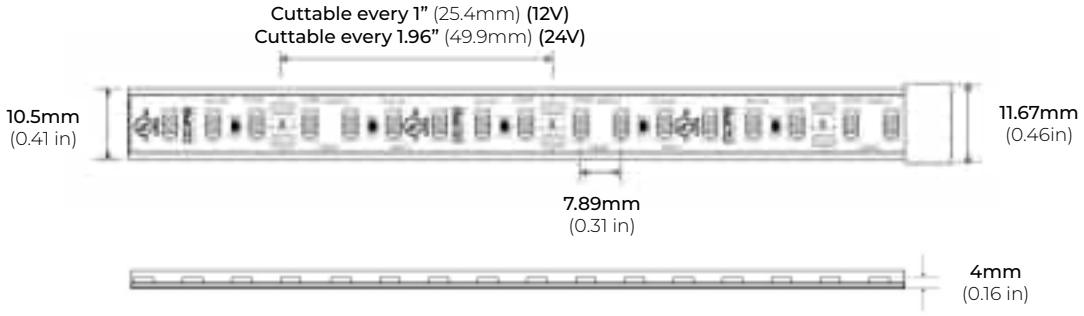
MODEL	COLOR TEMP		LENGTH	VOLTAGE	PROFILE
LSMW30	**22K** 2200K	**RD** Red	**16** 16 Ft.	**12** 12V	*See Page 2 for compatible profiles.*
	24K 2400K	**BL** Blue	**25** 25 Ft.	**24** 24V DC	
	27K 2700K	**GR** Green	**32** 32 Ft.		
	30K 3000K	**PK** Pink	[1] **XX** per Ft.		
	35K 3500K	**PR** Purple			
	40K 4000K	**AM** Amber			
	50K 5000K	**OR** Orange	*1 = Custom length per FT. (12V Strip cuttable every 1") (24V Strip cuttable every 1.96")		* Custom color finishes require powder coating. Allow 7 days leads time.
	60K 6000K				

LSMW-30

3W OUTDOOR FLEXIBLE LED STRIP

UPDATED: 07.08.25

DIMENSIONS

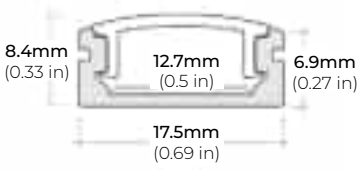


COMPATIBLE ALUMINUM PROFILES

SURFACE PROFILES

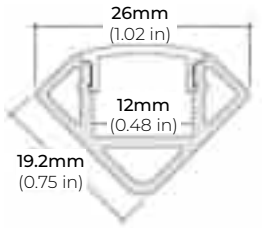
ALU-SF

LENGTHS 39" | 78" | 84" | 98"
LENS Clear, Frosted
FINISH Black | Silver



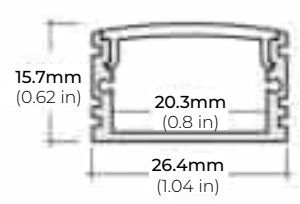
ALU-CN (CORNER)

LENGTHS 39" | 78" | 84" | 96"
LENS Clear, Frosted
FINISH Black | Silver



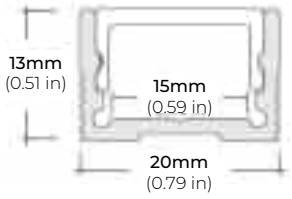
ALU-DS100

LENGTHS 39" | 78" | 84"
LENS Clear, Frosted
FINISH Silver



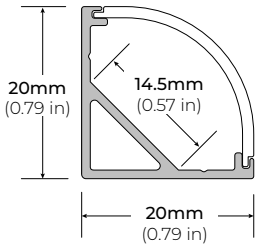
ALP-70

LENGTHS 49" | 84" | 98"
LENS Frosted
FINISH White | Black | Silver



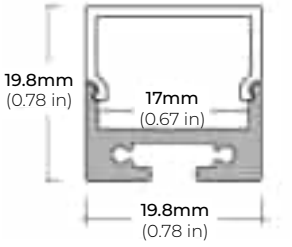
ALP-75C (CORNER)

LENGTHS 49" | 84" | 98"
LENS Frosted
FINISH Black | Silver



ALP-80

LENGTHS 49.25" | 98"
LENS Frosted
FINISH White | Black | Silver

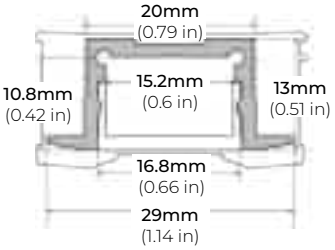


** For more compatible profiles, visit corelightingusa.com*

RECESSED PROFILES

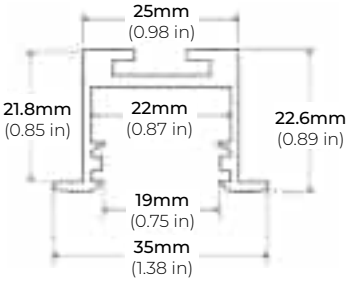
ALP-70R

LENGTHS 48" | 98"
LENS Frosted
FINISH Black | Silver



ALP-102R

LENGTHS 49" | 98"
LENS Frosted, Black, Asymmetric, Double Asymmetric
FINISH White | Black | Silver



** For more compatible profiles, visit corelightingusa.com*

LSMW-30

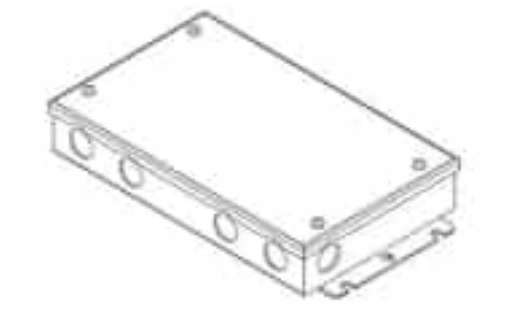
3W OUTDOOR FLEXIBLE LED STRIP

UPDATED: 07.08.25

COMPATIBLE TRANSFORMERS

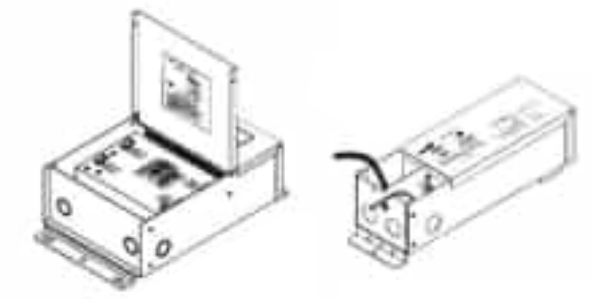
PSDL SERIES
TRIAC DIMMABLE

PSDL-30W-12V	CLASS 2	6.5" X 3.63" X 1.58"
PSDL-60W-12V	CLASS 2	7.4" X 3.63" X 1.58"
PSDL-100W-12V	CLASS 2	8.67" X 3.67 X 1.62"
PSDL-150W-12V		10.25" X 4.06" X 1.82"
PSDL-200W-12V		10.25" X 4.06" X 1.82"
PSDL-300W-12V		10.25" X 4.06" X 1.82"
PSDL-30W-24V	CLASS 2	6.5" X 3.63" X 1.58"
PSDL-60W-24V	CLASS 2	7.4" X 3.63" X 1.58"
PSDL-96W-24V	CLASS 2	8.67" X 3.67 X 1.62"
PSDL-150W-24V		10.25" X 4.06" X 1.82"
PSDL-192W-24V	CLASS 2	11" X 4" X 1.82"
PSDL-200W-24V		10.25" X 4.06" X 1.82"
PSDL-288W-24V	CLASS 2	11.85" X 4.25" X 1.82"
PSDL-300W-24V		10.25" X 4.06" X 1.82"



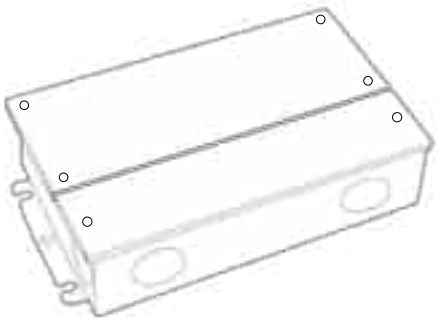
PSDH SERIES
HIGH PERMORMANCE MAGNETIC LOW VOLTAGE (MLV)

PSDH-48W-24V	CLASS 2	11.25" X 3.38" X 3.38"
PSDH-96W-24V	CLASS 2	11.25" X 3.38" X 3.37"
PSDH-288W-24V	CLASS 2	14.25" X 8.43" X 4.43"



PSRX SERIES
4-IN-1 DIMMING DRIVER W/ JUNCTION BOX

PSRX-30W-12V-UNV	CLASS 2	6.5" X 3.72" X 1.57"
PSRX-60W-12V-UNV	CLASS 2	7.4" X 3.72" X 1.57"
PSRX-150W-12V-UNV		10.24" X 4.13" X 1.77"
PSRX-30W-24V-UNV	CLASS 2	6.5" X 3.7" X 1.57"
PSRX-60W-24V-UNV	CLASS 2	7.4" X 3.72" X 1.57"
PSRX-96W-24V-UNV	CLASS 2	8.66" X 3.72" X 1.57"
PSRX-150W-24V-UNV		10.24" X 4.13" X 1.77"
PSRX-200W-24V-UNV		10.24" X 4.13" X 1.77"
PSRX-300W-24V-UNV		10.94" X 4.33" X 1.77"



LSMW-30

UPDATED: 07.08.25

3W OUTDOOR FLEXIBLE LED STRIP

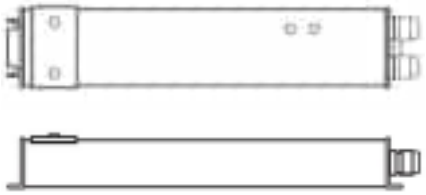
COMPATIBLE TRANSFORMERS

PSVT SERIES
0-10V DIMMING WITH JUNCTION BOX

PSVT-60W-24V-UNV-010	CLASS 2	7.4" X 3.72" X 1.57"
PSVT-96W-24V-UNV-010	CLASS 2	8.66" X 3.72" X 1.57"
PSVT-200W-24V-UNV-010		10.24" X 4.13" X 1.77"
PSVT-288W-24V-UNV-010	CLASS 2	11.85" X 4.25" X 1.81"
PSVT-300W-24V-UNV-010		10.94" X 4.33" X 1.77"

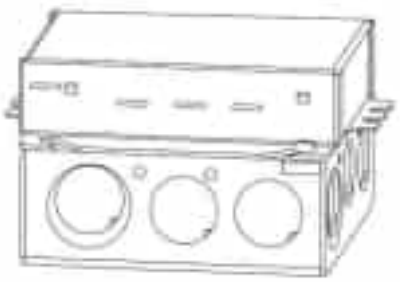
PSDE SERIES
0-10V DIMMING W/ JUNCTION BOX

PSDE-60W-24V-010-JB	CLASS 2	12.1" X 2.36" X 1.4"
PSDE-96W-24V-010-JB	CLASS 2	12.1" X 2.36" X 1.4"



LUTRON 1%
3-WIRE DIMMING

L3DA4U1UKL-CV240	CLASS 2	4.89" X 4" X 2.62"



LUTRON 1%

PSDE-96W-24V-ECO	CLASS 2	10.5" X 3.0" X 2.0"

LSMW-30

UPDATED: 07.08.25

3W OUTDOOR FLEXIBLE LED STRIP

COMPATIBLE NON-DIMMING DRIVERS

PSHK SERIES
NON-DIMMING CONSTANT VOLTAGE WITH JUNCTION BOX

PSHK-30W-24V	CLASS 2	6.5" X 3.6" X 1.02"
PSHK-60W-24V	CLASS 2	7.4" X 3.62" X 1.02"
PSHK-96W-24V	CLASS 2	8.66" X 3.66" X 1.61"
PSHK-150W-24V		10.24" X 4.06" X 1.81"
PSHK-200W-24V		10.24" X 4.06" X 1.81"
PSHK-288W-24V	CLASS 2	11.85" X 4.25" X 1.82"
PSHK-300W-24V		10.94" X 4.25" X 1.81"

FXLuminaire

LC LED Up Light **DESIGNER** PREMIUM

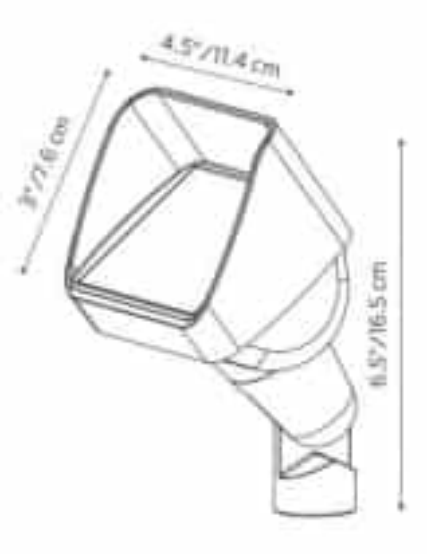
PROJECT

CATALOG #

TYPE

NOTES

High-performance wall wash light in 3, 6, or 9 LED. Available in aluminum or brass construction. RGBW capable with Luxor® systems.



Quick Facts

- Die-cast aluminum
- Two-layer marine-grade anodization and powder coat finish
- Lumileds® integrated LEDs
- ProAim™ adjustability
- Tamper-resistant features
- Compatible with Luxor technology
- Phase dimmable
- Input voltage: 10-15V

Output	3LED	6LED	9LED	ZDC
Total Lumens†	305	540	810	195-460
Input Voltage	10 to 15V	10 to 15V	10 to 15V	11 to 15V
Input Power (Watt)	4.0	7.7	11.1	9.1
Power Consumption (VA)	4.4	9.3	12.2	11.0
Efficacy (Lumens/Watt)	77	70.0	73.0	37.0
Color Rendering Index (CRI)	84	84	84	80+
Center Beam Candlepower*				
Very Wide Flood (90)	147	262	400	193
Dimming				
Primary Dimming (Transformer)	Consult tranformer specifications			
Secondary Dimming (Fixture)	Phase-cut**	Phase-cut**	Phase-cut**	Luxor
RGBW Available	No	No	No	Yes
Luxor Compatibility				
Default	Zoning	Zoning	Zoning	--
ZD Option	Zoning/Dimming	Zoning/Dimming	Zoning/Dimming	--
ZDC Option	--	--	--	Zoning/Dimming/Color
Minimum Rated Life (L70)	72,000 Hrs	72,000 Hrs	72,000 Hrs	55,000 Hrs

* Information not available for Flood or Wide Flood.
** For optimal performance, use a trailing-edge, phase-cut dimmer.
† Measured using the 2,700K CCT option.

About FX Luminaire

As a leading manufacturer of landscape and architectural lighting, FX Luminaire provides innovative products, resources, and support to help customers bring their visions to life. The company offers a range of specification-driven solutions, including fixtures, controls, and accessories, to enhance residential and commercial landscapes.

Materials

Die-cast C360 brass housing, shroud, and knuckle/base assembly with brass hardware or die-cast aluminum A380 housing, shroud, and knuckle with stainless steel hardware.

Knuckle

Die-cast brass or die-cast aluminum knuckle with ½"-14 NPSM threads. Compress and lock features prevent slip after installation. 9° increments adjustability over 220° of vertical adjustment.

LED

Integrated module with Lumileds LEDs. Gold-plated connectors and conformal coated for maximum reliability and corrosion resistance. Proprietary on-board intelligent driver uses firmware-controlled temperature regulation, maximizing LED life. Field upgradeable and replaceable, the LEDs are rated to 72,000 hrs. Maximum drive current: 1 A.

Optics

Color temperature defined by part number. Beam angle is calculated using LM-79 method for SSL luminaires.

Finish

Options of powder coat, natural brass finish, or antiqued finish with brushed (Antique Bronze) or tumbled (Antique Tumbled) effect. Powder coat finishes sealed with two-layer protection of sulfuric acid anodization and polyester TGIC powder coat, providing superior outdoor weathering in all conditions. Tested to ASTM standards. Antique finishes sealed with a clear TGIC powder coat layer.

Hardware

Brass or stainless steel angle lock screw. Includes 12" (305 mm) ABS slotted installation spike.

Wiring

18 AWG (1 mm); SPT-1W; 220°F (105°C); 300V; 10' (3 m) length.

Sockets

Socket contains MoistureBlock™ technology, preventing moisture from wicking up into sealed areas of the fixture.

Power

Input 10-15VAC/VDC 50/60Hz. Remote transformer required (specify separately).

Housing

Die-cast brass or aluminum housing with capacity for 1LED, 3LED, 6LED, 9LED, or ZDC integrated LEDs.

Glare Control

Die-cast brass or aluminum shroud with 30° cutoff.

Weight

3.8 lbs. (1.7 kg)

Lens

Tempered frosted glass lens with shock resistance and high tolerance for thermal expansion and stress.

International Compliance

Compliant per IEC 60598-1 and IEC 60598-2-4 when used with International Spike Kit ("EKITSPIKE") or alternate mount greater than or equal to IP65, or by selecting the "e" version.

Ambient Operating Temperature

0°F to 140°F (-18°C to 60°C)

Sustainability

Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high quality light at optimal energy efficiency, lifespan, and durability.

Installation Requirements

Designed for installation in the upward direction only.

Control

ZD or ZDC options utilize Luxor technology to zone light fixtures in up to 250 groups, dim each group in 1% increments between 0 and 100%, or change to one of 30,000 colors with RGBW LEDs. Select the ZD option for zoning/dimming or ZDC for zoning/dimming/color. Standard fixture is zoneable with Luxor.

Manufacturing

ISO 9001:2015 certified facility

Warranty

10-year limited warranty.

Listings

LC LED Up Light ORDERING INFORMATION

Fixture	Control	Power	Color Temp	Compliance	Finish
LC	**[Default]** Zone with Luxor, On/Off, Phase Dimmable	**3 LED** 4.5 VA	**[Default]** Warm (2700K)	**[default]** North America (UL Listed)	**BZ** Bronze Metallic
	ZD Zone/Dim with Luxor	**6 LED** 9.3 VA	**S** Soft (3000K)	**E** International (CE Certified)	**FB** Black
	ZDC Zone/Dim/Color with Luxor	**9 LED** 12.2 VA	**C** Cool (4000K)		**DG** Desert Granite
		[default ZDC option] 11.0 VA	**[Default]** RGBW, ZDC Option Required		**WI** Weathered Iron
					SB Sedona Brown
					FW Flat White
					SV Silver
					AB Antique Bronze
					BS Natural Brass

[ ] – [ ] – [ ] – [ ] – [ ] – [ ]

EXAMPLE FIXTURE CONFIGURATION: *LC*-XX-XXXX-XX

LC 3LED - Illuminance at a Distance

Distance	Center Beam fc	Beam Width	
Feet (Meters)	**Foot-Candles (Lux)**	**Vertical : 95.4 °**	**Horizontal : 84.5 °**
4' (1.2 m)	4.9 fc (53 lx)	8.8' (2.7 m)	7.3' (2.7 m)
8' (2.4 m)	1.2 fc (13 lx)	17.6' (5.4 m)	14.5' (4.4 m)
12' (3.7 m)	0.6 fc (7 lx)	26.4' (8.1 m)	21.8' (6.7 m)
16' (4.9 m)	0.3 fc (3.2 lx)	32.2' (9.8 m)	29.0' (8.8 m)
20' (6.1m)	0.2 fc (2.2 lx)	44.0' (13.4 m)	36.3' (11.1 m)
24' (7.3 m)	0.1 fc (1.1 lx)	52.8' (16.1 m)	43.6' (13.3 m)

LC 6LED - Illuminance at a Distance

Distance	Center Beam fc	Beam Width	
Feet (Meters)	**Foot-Candles (Lux)**	**Vertical : 94 °**	**Horizontal : 81.5 °**
4' (1.2 m)	10.7 fc (115 lx)	8.6' (2.6 m)	6.9' (2.1 m)
8' (2.4 m)	2.7 fc (29 lx)	17.2' (5.2 m)	13.8' (4.2 m)
12' (3.7 m)	1.2 fc (13 lx)	25.7' (7.8 m)	20.7' (6.3 m)
16' (4.9 m)	0.7 fc (8 lx)	34.3' (10.5 m)	27.7' (8.4 m)
20' (6.1m)	0.4 fc (4.3 lx)	42.9' (13.1 m)	34.6' (10.6 m)
24' (7.3 m)	0.3 fc (3.2 lx)	51.5' (15.7 m)	41.5' (12.7 m)

LC 9LED - Illuminance at a Distance

Distance	Center Beam fc	Beam Width	
Feet (Meters)	**Foot-Candles (Lux)**	**Vertical : 90 °**	**Horizontal : 81.7 °**
4' (1.2 m)	14.4 fc (155 lx)	8.1' (2.5 m)	6.9' (2.1 m)
8' (2.4 m)	3.6 fc (39 lx)	16.3' (5.0 m)	13.8' (4.2 m)
12' (3.7 m)	1.6 fc (17 lx)	24.4' (7.4 m)	20.7' (6.3 m)
16' (4.9 m)	0.9 fc (10 lx)	32.5' (9.9 m)	27.7' (8.4 m)
20' (6.1m)	0.6 fc (7 lx)	40.7' (12.4 m)	34.6' (10.6 m)
24' (7.3 m)	0.4 fc (4.3 lx)	48.8' (14.9 m)	41.5' (12.7 m)

LC ZDC - Illuminance at a Distance

Distance	Center Beam fc	Beam Width	
Feet (Meters)	**Foot-Candles (Lux)**	**Vertical : 40.2 °**	**Horizontal : 38.1 °**
4' (1.2 m)	10.8 fc (116 lx)	2.9' (0.9 m)	2.8' (0.9 m)
8' (2.4 m)	2.7 fc (29 lx)	5.9' (1.8 m)	5.5' (1.7 m)
12' (3.7 m)	1.2 fc (13 lx)	8.8' (2.7 m)	8.3' (2.5 m)
16' (4.9 m)	0.7 fc (8 lx)	11.7' (3.6 m)	11.0' (3.4 m)
20' (6.1m)	0.4 fc (4.3 lx)	14.6' (4.5 m)	13.8' (4.2 m)
24' (7.3 m)	0.32 fc (3.4 lx)	17.6' (5.4 m)	16.6' (5.1 m)

MOUNTING OPTIONS: Specify Separately

Mounts	Catalog No.	
Long Slot Spike	250015840000	
Lock Ring	250030410000SP	
Straight Coupling	COUP-XX*	
90° Coupling	ELBW-050-XX*	
Ground Mount for 2.0" Schedule 40 Post Mounting with ½" Thread	GM-XX*	
Mini J-Box for ½" Thread	MJB-050-XX*	
ProAim® Ratcheting Spike	PARS	
Super J-Box Spike	SJ-XX*	
T-Mount Coupling with ½" Thread	TMNT-050-XX*	
VersaBox® Mount with ½" Thread	VB-050-XX*	
Wall Mount Knuckle	WM-XX*	
Round Wall Plate with ½" Thread	WP-RD-050-XX*	
Sign Light Riser, Aluminum	YY*-R-SL-XX*	

Mounts	Catalog No.	
Three-Prong Spike	250020020000	
Super Slot Spike	753900	
CE Certified Spike	eKitSpike	
Gutter Mount	GM-SS	
2.5" Post Mount with Stabilizer	LS6054	
Mini Mount	MM-050-XX*	
Post Mount for 1.5" Schedule 40 Post Mounting with ½" Thread	PM-XX*	
TreeBox® Mount with ½" Thread	TB-XX*	
Tree Ring	TR-YY*-8P-XX*	
Variable Height Riser for Up Lights	VHR-UL	
Single-Gang Wall Plate with ½" Thread	WP-1G-050-XX*	
1.0" (25 mm) Copper Riser for GT Path Light	YY*-R-GT-XX*	
Aluminum Riser, ¾" Diameter	YY*-R-XX*	

POWER OPTIONS: Specify Separately

Power	Catalog No.	
Plug-In Transformer, 6 W	MT-6W	
	SURGE-MOD	

Power	Catalog No.	
Step-Down Transformer, UV (120/277 V to 12 V)	ST-UV	

Rich Landscaping Inc.

"Landscaping the world one yard at a time!"

27901 NE Redmond Fall City Rd., Redmond, WA 98053
Phone (425) 222-9544 Fax (425) 222-6600
www.richlandscaping.com
Site Planning - Landscape Construction - Landscape Maintenance

LANDSCAPE MAINTENANCE CONTRACT

This Agreement is entered into on **__May 1, 2026___**by Rich Landscaping, Inc., hereinafter referred to as the Contractor and the following client:

Name	Waterfall Garden Park
Address	219 2nd Ave S,
City	Seattle, WA 98104
Contact	Blaze Pattison; Charles Fritzemeier
Email	bpattison@pacificbuild.com; hcfritzemeier_1@outlook.com

1. Terms

This contract shall commence on **___January 1, 2026___** and shall continue to renew upon the anniversary date of this contract.

2. BILLING AND PAYMENT: The Owner agrees to pay the maintenance contractor **the monthly amount of $1,290.00___ plus WA state sales tax**.

A. The annual contract amount is calculated based on a twelve-month period.
B. Invoices will be sent each month and payment thereon shall be due within 30 days. All payments not received when and as due shall be charged a 1.5% service charge per month from the date due until paid.
C. In the event that the contractor must undertake collection proceedings, client will be liable for actual attorney's fees and costs of suit. In the event of non-payment contractor may terminate all contractual obligations with five (5) days notice to the client.
D. Please be aware that the payment system of twelve (12) equal monthly installments is designed to keep the clients payables and the contractors receivables equal throughout the year for landscape maintenance services. It does not reflect the actual hours per month provided to the site.
E. All proposals assume cash payment. Any credit card fees will incur an automatic additional 3% charge.

3. BED CARE

Weed Control

A. Planter beds will be weeded by hand or through the use of a post-emergent herbicide as needed to maintain a neat and clean appearance. Pre-emergent herbicides may be applied two times per year in all open bed areas to assist in bed weed control.
B. Bark is recommended for all beds to control weeds.

Pruning

A. Prune trees up to 12 feet in height during winter dormancy.
B. Trim shrubs and hedges up to 10 feet in height during winter dormancy to maintain desired shape and to provide a neat trim appearance on a rotational basis.

Raking

A. Raking will be performed in sections of the property at every service to help with the removal of debris from the areas being worked in. During each service a portion of the open bed space will be maintained.
B. It is not intended to rake the entire property at every service.

Leaf Collection

A. Removal of leaves from lawns, planter beds and walkways will be completed throughout the year as needed to maintain a clean appearance. Within the boundaries of developed landscape areas, major fall leaf removal will be provided on an ongoing basis until leaf drop is complete. It is not intended that all leaves will be removed from the entire site each visit during the fall leaf pick up season.
B. Undeveloped areas will be left natural unless the Owner/Manager requests a specific clean-up of the area. Leaf removal is not provided for in parking areas.

Encroachment control

A. The perimeter of the property will be inspected and encroaching plant material will be knocked back as time allows during service

Hard Surfaces

A. All walks, patios, driveways and entries will be mechanically cleaned of gardening debris resulting from contractors landscaping activities. During each visit, power blow hard surface areas affected by landscape operations.
B. Hard surfaces will be inspected for crack weeds, chemically sprayed, then resulting debris will be removed manually.

Replacement of plants

A. Dead plants and those in a state of decline will be brought to the client's attention. Replacements must be accepted by and paid for by the client unless mortality is caused by Contractors negligent or a prior agreement is binding.

4. Trees, Shrubs and Ground Cover

Fertilization

A. Trees, shrubs, and ground covers (3" caliper or less) will be fertilized in a uniform manner as needed to ensure a healthy appearance. A slow release type mixture that contains a balanced formula will be used. Fertilizer will be applied to all trees, shrubs, and ground covers in a proper proportion to size and density.

Pruning

A. Trees and shrubs no taller than 12' tall and within reach from the ground will be pruned to maintain a natural shape and balance. Diseased and damaged growth will be removed.
B. Deciduous trees no taller than 12' tall will be pruned as needed during winter dormancy to provide natural shape and habit. Evergreen trees no taller than 12' will be pruned in summer or as needed.
C. Ground cover and shrubs will be trimmed or sheared from March through September to maintain a natural shape and function as needed to provide the desired appearance. Ground Covers will be trimmed to maintain a clear edge along the boundaries of desired growth.
D. All shrubs will be maintained in the shape and appearance that existed when the contractor acquired the site unless otherwise agreed upon by addendum.
E. Resulting debris will be removed from the site.

5. IRRIGATION CARE/ WATER MANAGEMENT

A. All Controllers with adequate power source will be replaced with Weathermatic Smart Link Controllers. Rich Landscaping Inc., installs and utilizes an internet-based irrigation control system (smart controller, on-site weather station, remote monitoring device "Aircard", and online software). This is included in this agreement and will be installed at no additional cost as part of this agreement. This enables our team to deliver an even higher level of service by improving efficient management of your irrigation system, gaining greater visibility to your site and lowering operating costs. By having site specific visibility your landscape will be healthier, have improved vigor, and better adaptability to the stresses of our climate. Our capabilities to perform thorough system evaluations is also enhanced by the power of the inspection tool including pictures that allows us to accurately track issues, identify problems and prepare estimates for the repair while on-site, saving you money on wasted water, additional costly repairs, and extra trip charges.

B. In the event of contract termination, the Client will retain the controller and weather station (if installed), while Rich Landscaping Inc., will remove and retain the remote monitoring device (Aircard) leaving the client with a FULLY operational irrigation system.
C. Irrigation system will be monitored and adjusted (frequency, spray times, patterns.). System will receive a spring fire-up to determine any problems and a winterization to ensure system will not operate and to minimize any possible damage by cold weather. Winterization consists of draining backflow valves. Removal of backflow valves is not included in this contract, and is available at an additional cost. Client hereby approves necessary repairs up to a cost not to exceed $1,000. Contractor will notify Owner prior to initiating any repairs whose cost will exceed the above approved limits.
D. Client must identify all clocks and backflows and allow access to Contractor. Contractor is not responsible for damage done to clock by other operators. Mapping of irrigation system or sequential wiring of existing clocks by Contractor is a separate billable service.
E. Smart Weather-Based Technology: To provide the most efficient water management services, Contractor installs and utilizes a cloud-based irrigation control system (smart controller, on-site weather station, Aircard, and online software). This is included in this agreement and will be installed at no upfront cost to the Client.
F. Daily Auto-Adjust Scheduling: The Contractor will automatically adjust watering schedules equal to the needs of the landscape and will apply water at a rate the soil can accept based on evapotranspiration rates driven by on-site weather and the type of sprinkler, plant, soil and slope by zone of the property.
G. Remote Access: Two-way communication to the system is included for monitoring alerts, remote programming capabilities and emergency shut off.
H. Warranty: A total equipment protection warranty for controller, weather station, and aircard is included and covers replacement equipment for defects and any damage caused by lightning, theft, or vandalism. Labor will be an additional charge. This total protection warranty will remain in place for as long as Contractor retains the landscape maintenance agreement. This unlimited warranty term provides the Client with a fixed cost of ownership.
I. Inspections: Contractor utilizes a mobile inspection app with photo documentation of repairs needed and reports available online for easy reference and approval process.
In addition, in the event of termination; the Client retains the hardware (smart controller

6. GENERAL INSPECTION

General

J. During each visit inspect the shrub beds and turf areas.
K. Report any improprieties to the Client's representative during each visit.
L. Regularly scheduled visits by the Contractor's Management are scheduled to assure adherence to contract stipulations.
M. Provide Crew Leader on the site at all times.

7. SCHEDULE OF VISITS

A. 45 Services

B. Exceptions: If a service visit is missed due to an extreme weather event because it is to dangerous to travel to and from work or the conditions are too dangerous to work then the service will not be required to be made up or credited. An extreme weather event qualifies as snow, ice, flood, fire, smoke, earthquake and wind.

8. Exclusions

The following items shall not be included within the scope of work:

1. Maintenance of trees above twelve (12) feet in height. Any pruning or major structural work required on large specimen trees will be inspected and a recommendation will be made for services of a certified arborist. Cost of arborist inspection is not included and will need to be paid by client each time. Any supervision provided by the contractor shall bear additional charges.
2. New plantings and other enhancements, except with clients prior approval and agreement.
3. Replacement of any losses, repairs or liability for damages which have resulted directly or indirectly from factors beyond contractors control, including but limited to freeze, drought, flood and/or windstorm.

4. Cleanup from severe storms that cause significant damage to the landscape. The contractor will charge an agreed upon additional fee for restoring the grounds back to its normal maintained condition. This may include removal of tree and shrubs, large quantities of branches and other fallen vegetation.
5. Watering except in cases where underground irrigation systems are operating under contractors control.
6. Disease, insect or rodent infestations, as well as removal of feces.
7. Removal of sharps including but limited to broken glass, pieces of metal, and syringes.
8. Moss Control on hard surfaces.
9. Mechanical cleaning of parking lots or roads.
10. Any other services performed and/or materials delivered which are not specifically mentioned herein will be deemed additional services.

9. GENERAL TERMS AND CONDITIONS

Extras

A. Only those services, materials, etc., as herein specified are agreed upon.
B. No extras or add-ons, as well as deviations from the scope of work and services as specified will be permitted by or on behalf of either party, unless a written "extra work" or change order has first been prepared, agreed upon, and properly signed by both the Client and Contractor.

Exceptions:

Verbal work authorizations, from Supervisory personnel on site, such as Business Managers, Maintenance Supervisors and Assistant Managers, will be binding and billed accordingly, as if all paper work were already signed. In other words, field work authorized verbally by site personnel is authorization to commence work and collect for work performed.

Insurance & Licenses

A. Contractor agrees to provide insurance for: Workman's Compensation, Unemployment compensation, and any other insurance required by law.
B. Contractor shall carry Public Liability and Vehicle Insurance to limits required by Client. A certificate of insurance shall be provided to Client upon request.
C. Contractor is licensed in the state of Washington as a General Contractor.

10. LIABILITY: It is understood and agreed between both parties that the Contractor is an Independent Contractor and the Owner assumes no liability to the Contractor or Contractor's employees, unless such injury is caused by the Owner's negligence. It is further understood and agreed that the Contractor is not liable for any damage of any kind, whatsoever, including glass breakage that is not caused by the negligence of the Contractor or Contractor's employees.

It is understood and agreed, by all parties, that the Contractor is an Independent Contractor and assumes no Liability for the Owner or their Representatives unless property damage or bodily injury results from the sole negligence of the Contractor or Contractor's employees.

11. TERMINATION: This Agreement may be terminated by either party, giving written notice no less than sixty (60) days in advance, on the first day of the month by **Certified Mail** only. If notice of termination is not given within this limit, it is understood that the owner is still obligated to pay the Contractor for two months of service. It is also agreed that the Contractor need not perform any work, nor give notice to terminate if the Owner refuses to pay as specified per No. 2, Billing and Payment Requirements.

BIDDER'S QUALIFICATION
State of Washington Registration No.: 600 642 009
Industrial Insurance Account No.: 460 276 009
Federal IRS Identification No.: 91 1341416

CLIENT'S AGENT:

Print Clients' Name

Rich Landscaping Agent
Rich Landscaping, Inc.
27901 Redmond-Fall City Hwy.
Redmond, WA 98053

Client's Signature

Client's Title

Date

Date

SmartLink® Commercial Wireless

Affordable, Web-Based Irrigation Management

Professional Features

- LTE CAT M1 Cellular communication
- Unlimited accounts
- Assignable account privileges
- Unlimited sites
- Unlimited controllers
- Web browser accessible
- Map integration
- Search Filters
- Single page controller overview
- Manual zone/program operation
- Recent event list (export to .xlsx)
- Valve locator
- Basic programming (mirror SmartLine/ProLine features)
- Advanced “Smart” programming (mirror SmartLine features)
- Historical water use reports
- Historical temperature overlays
- Total gallons used per site/controller/zone
- Daily or monthly summary

Alerts

- Turn ON email alerts
- Set alerts to arrive instantly or daily
- Manage alerts globally
- Setup over 20 different notification types

Inspection Reporting

- Run zones remotely
- Track issues and quantities
- Upload photos for issues
- Include comments and descriptions
- Review program settings
- Set programming adjustments
- Save inspection reports to clients
- Export reports to PDF, XLSX, or XLS

Asset Tagging

- Create site layouts with satellite mapping
- Draw zone outlines
- Pin locations for items such as meters, valves, sensors, controllers, and more
- Include detailed notes
- Upload photos
- Save meter and product serial numbers
- Drag-in-drop any related files

Global Commands

- Turn ON or OFF all controllers
- Set a Rain Delay
- Clear Faults
- Pull a receive for real-time updates
- Reset a controller
- Take a Snapshot of all program settings

Requirements

- SmartLine controller (Firmware 3.10) with SmartLink Aircard installed.
- Service plan fee

Reports

- Run Times
- Water use (with flow data)
- Local high and low temperatures
- System or programming related changes
- Daily, Weekly or Monthly changes

Proposals

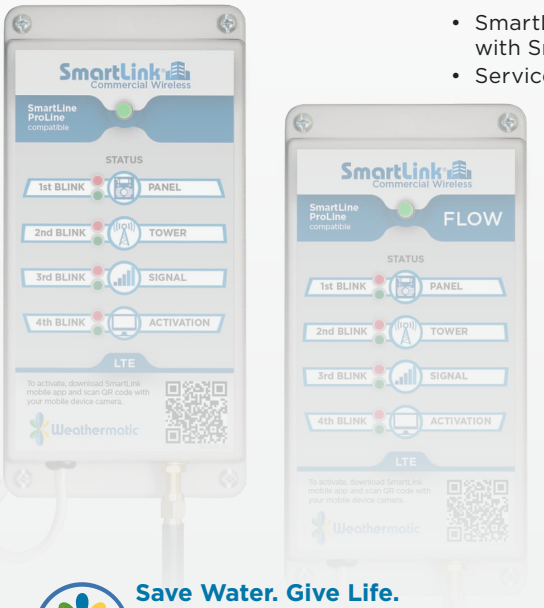
- Track repair issues
- Maintain a repair parts catalog
- Update price lists
- Create proposals
- Send proposal approval emails to clients

Flow Sensing

- Self-defined high and low flow limits
- Automatic master and zone valve shutdowns
- Email alert notifications
- Running and Current Averages
- (Flow aircard/sensor required)

Snapshots

- Track minor program adjustments
- Store settings for historical reasons
- Reapply settings at a later time
- Compare differences between two programs



Save Water. Give Life.
Learn more
weathermatic.com/our-cause

SmartLink® Commercial Wireless

SL-AIRCARD

SmartLink® Aircard

FEATURES

- Connects the SmartLine® controller to the SmartLink®™ web application
- Provides Web-Based control from a computer, tablet, or smartphone
- Simple to install
- Set-up in minutes
- Automatic firmware updates
- Status LED
- Gold plated antenna connection
- Cellular-Based communication
- Indoor/Outdoor use

FLOW AIRCARD FEATURES

- Adds Flow capabilities
- Flow Sensor connects directly to unit and not the SmartLine® controller

SMARTLINK AIRCARD SPECIFICATIONS

MODEL	DESCRIPTION
SL-AIRCARD-M1NA	SmartLink Aircard for LTE CAT M1 Cellular Network (No Plan)
SL-AIRCARD-M1NA-EXT	SmartLink Aircard for LTE CAT M1 Cellular Network with 50ft Extension (No Plan)
SL-AIRCARDFLOW-M1NA	SmartLink Aircard with flow for LTE CAT M1 Cellular Network (No Plan)
SL-AIRCARDFLOW-M1NA-EXT	SmartLink Aircard with flow for LTE CAT M1 Cellular Network with 50ft Extension (No Plan)

Aircard Mount Antenna

SL-ANT-LTE

SmartLink® Aircard Standard Antenna

FEATURES

- Standard no gain antenna included with SmartLink® Aircard
- Omni directional
- Mounts directly on SmartLink® Aircard
- Suitable for most SmartLink® Aircard locations

STANDARD ANTENNA SPECIFICATIONS

MODEL	DESCRIPTION
SL-ANT-LTE	SmartLink® Aircard M1NA Antenna LTE

Pedestal Mount Antenna

SL-HG-ANT-LTE

High Gain Antenna, LTE

DIMENSIONS

1.7" diameter x 3" WH
(43 mm x 76 mm)

FEATURES

- Heavy duty screw mount
- L-shaped bracket
- UV and vandal resistant
- ABS housing and thread
- IP67 compliant
- Includes 3 ft cable
- Peak Gain: 1.2 dBi @ 700-960 MHz

SL-HG-ANT-LTE ANTENNA SPECIFICATIONS

MODEL	DESCRIPTION
SL-HG-ANT-LTE-3FT	High Gain Antenna with 3 ft. cable, LTE

TRIMTECT®

SHRUB GROWTH REGULATOR

Active Ingredient:	By Wt
Paclobutrazol: (R*, R*)-(±)-ß-[(4-chlorophenyl) Methyl]-ą-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol	8.0%
Other Ingredients:	92.0%
Total:	**100.0%**

Contains 0.72 lbs. active ingredient per gallon

Product Code: 3107

NET CONTENTS 2.5 GAL.

320 fl oz (9.46 L)

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See Side/Back Panel for Additional Precautionary Statements, First Aid and Directions for Use

STOP - Read the label before use.

EPA Reg. No. 74779-7 **EPA Est. No.** 065387-AR-002

Distributed for:

Rainbow™ ECOSCIENCE

Rainbow Treecare Scientific Advancements DBA:
Rainbow Ecoscience
11571 K-Tel Dr. Minnetonka, MN 55343
1-877-272-6747
www.rainbowecoscience.com

FIRST AID	
IF SWALLOWED:	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal), or Chemical Emergency Assistance (Spill, Leak, or Accident). Call CHEMTREC at **1-800-424-9300.**	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin, or clothing.

Personal Protective Equipment (PPE)
Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber, Nitrile rubber or Viton.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards
Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

Physical or Chemical Hazards
Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval.
The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

Exception: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

1. Long sleeved shirt and long pants
2. Chemical-resistant gloves such as barrier laminate, butyl rubber, Nitrile rubber or Viton.
3. Shoes plus socks

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR PRODUCT PERFORMANCE.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Trimtect is a growth regulator that provides vegetative growth suppression of plants such as shrubs, small trees, vines, perennials, and ground covers growing in outdoor non-crop areas, including residential areas, nurseries, national and private wooded and forested areas, parks, industrial manufacturing and storage sites, commercial buildings, street medians, rights-of-way areas, such as electrical power lines, highway and transit medians, communication lines, pipe lines, roadsides, rail roads, fence rows, non-irrigation ditch banks, forests and in the establishment and maintenance of wild life openings.

Product Information

Trimtect is absorbed through leaves, buds, new shoot growth and roots. Trimtect inhibits the production of gibberellin and subsequent cell elongation in terminal shoots. Treated plants require less pruning and will exhibit a more compact growth habit. Plants may have smaller, darker looking foliage and can be less susceptible to stress such as drought, temperature, and diseases including leaf spots and powdery mildew.

Timing of initial shoot growth reduction varies by species, season and growing conditions, but a response typically is noticed within 30 days for foliar applications and in as little as 2 months for soil applications. Duration of growth reduction can last 3 – 6 months for foliar treatments and up to 1-2 growing seasons for soil applications. Length of control is influenced by the application timing, amount of pruning performed, soil type, growing conditions and species of plant. Additional cultural practices, such as fertilizing and irrigation may influence the response time and level of growth reduction.

Avoid pruning following application, as this will remove the product from the terminal shoots of the treated plant. However, certain species may require light pruning during the treatment period to remove plant material that does not appear to be regulated (escapes) to maintain the desired shape and form.

Trimtect is also absorbed by the root system when applied to the soil. Soil applied treatments will inhibit the growth of ornamentals such as shrubs, vines and small trees. Applications may be applied using soil injection or basal drench.

Trimtect has also been found to reduce the incidence and severity of fire blight of shoots (Shoot blight). Trimtect does not have direct antibiotic activity against the fire blight pathogen (*Erwinia amylovora*), but can reduce the host susceptibility. A treatment in the spring temporarily suppresses rapid shoot elongation during the peak infection period by the fireblight pathogen reducing the susceptibility of the host to shoot tip infections.

RESTRICTIONS

All Uses:

- Do not apply this product through any type of irrigation equipment
- Do not treat sugar maple trees or any other trees that are or could be tapped for sugar within one year of application.
- Do not treat nut or fruit trees that will be harvested within one year of application.
- Do not use on areas to be cultivated for food or food crops within two years of treatment.
- Do not apply more than 11 qts per acre per application (2 lbs. ai/A)
- Do not apply more than 11 qts per acre per year (2 lbs. ai/A)
- Do not treat plants more than 4 times per year.
- Do not apply by air or with a ground boom sprayer.
- Do not treat flowering dogwood.
- Do not use spray equipment that has been previously used for herbicide applications.

Precautions:

- Will not suppress the blossom blight stage of fire blight.
- Use caution when treating maples, lindens, red bud, sweet gum, and elms less than 10 inches in diameter with soil applications as these species are more prone to over-regulation.
- Foliar spray applications at higher dosage rates may leave a white residue on the plant foliage. Take precaution when treating around sidewalks, driveways, buildings, decks, fences, vehicles, or other structural surfaces as staining may occur. Wash immediately with water if product comes into contact with these surfaces.
- Take extra precaution to minimize application to non-target plants, including turfgrass, as growth regulation may occur on non-target plants that come into contact with Trimtect.
- Avoid sowing grass seed within two years of treatment. Sowing with grass seed within this time period may result in poor or reduced seedling establishment.

Tank Mix: When tank mixing with other materials, conduct a compatibility test (jar test) using relative proportions of tank mix ingredients prior to mixing ingredients in application equipment.

APPLICATION INSTRUCTIONS

PRUNING REDUCTION AND TO MAINTAIN COMPACT GROWTH

Foliar Treatment

Applications can be made throughout the growing season. To minimize regrowth after pruning, make applications no more than 2 weeks following pruning. NOTE: Pruning after applications have been made will remove the product from the plant and can decrease the amount of growth reduction.

See Tables 1 and 2 for foliar spray rates. Shake container thoroughly before use. Mix spray solutions as follows: Begin filling the mixing tank or spray tank with the required amount of water. When the tank is about half full, add the labeled amount of Trimtect. Add the remaining amount of water to achieve desired spray solution volume then add a non-ionic surfactant. Maintain agitation in spray tank to ensure uniform distribution within spray solution.

IMPORTANT: Always read and follow the manufacturer's surfactant label recommendations for best results. Carefully observe all cautionary statements and other information appearing on the surfactant label.

Spray solution until material begins to drip from all plant surfaces. Ensure that the foliage, canopy and all inner stems are thoroughly covered.

In outdoor commercial ornamental and nursery uses, follow foliar applications of Trimtect by irrigation within 24 hours to remove product from foliage and limit surface movement. If overhead irrigation is not

available, time applications to allow Trimtect to dry on the treated surface prior to rainfall.

To limit unwanted surface runoff in outdoor ornamental uses, do not apply when growth media is saturated.

Certain species respond more or less to Trimtect. In addition, efficacy may vary depending on weather conditions, geographic conditions, and other biological factors, applicators should treat a small-scale number of plants prior to determining specific application rates for different species under actual use conditions. Use the higher rates in listed in table 1 when treating subtropical plants and plants growing in locations with longer growing seasons. Wait at least 8 weeks before retreating.

Table 1: Foliar Spray: Shrub Species and Rates for Vegetative Growth Control

Plant	Scientific Name	Rate (fl. oz.) per gallon of spray solution
Abelia	*Abelia x grandiflora*	3.0 - 9.5
Alpine current	*Ribes alpinum*	3.0 - 6.5
Amur maple	*Acer ginnala*	6.5
Arboricola	*Shefflera arboricola*	6.5 – 13.0
Arborvitae	*Thuja spp.*	6.5 – 13.0
Azalea	*Rhododendron spp.*	3.0 - 6.5
Barberry	*Berberis spp.*	3.0 – 6.5
Bottlebrush	*Callistemon spp.*	3.0 - 6.5
Boston Ivy	*Parthenocissus tricuspidata*	1.5 – 6.5
Bougainvillea	*Bougainvillea spp.*	6.5 - 13.0
Boxwood	*Buxus spp.*	3.0 – 9.5
Butterfly Bush	*Buddleia spp.*	1.5 - 6.5
Buttonwood	*Conocarpus erectus*	6.5 – 13.0
Camelia	*Camellia spp.*	6.5 – 9.5
Cherry Laurel, English Laurel and Skip Laurel	*Prunus spp.*	6.5 – 9.5
Chokeberry	*Aronia melanocarpa*	6.5 – 9.5
Cleyera	*Cleyera spp.*	4.5 - 6.5
Clusia/Pitch apple	*Clusia rosea*	6.5 – 13.0
Cocoplum	*Chrysobalanus icaco*	3.0 – 13.0
Copperleaf	*Acalypha wilkesiana*	1.5 – 3.0
Cotoneaster	*Cotoneaster spp.*	3.0 – 6.5
Cotoneaster – Willowleaf	*Cotoneaster salicifolius*	3.0 – 9.5
Creeping Fig	*Ficus pumila, Ficus repens*	4.5 – 9.0
Dogwood – Red twig	*Cornus sericia*	4.5 – 6.5
Duranta – Gold Mound	*Duranta repens*	6.5 – 13.0
Elaeagnus	*Elaeagnus pungens*	6.5 – 13.0
English Ivy	*Hedera spp.*	1.5 – 6.5
Escallonia	*Escallonia spp.*	6.5 – 13.0
Eugenia (Surinam Cherry)	*Eugenia myrtifolia*	3.0 – 6.5
Euonymus – Manhattan	*Euonymus kiautschovicus 'Manhattan'*	6.5 – 13.0
Euonymus – Winged	*Euonymus alatus*	6.5 – 9.5
Euonymus – Wintercreeper	*Euonymus fortunei*	9.5
Ficus	*Ficus spp.*	6.5 – 13.0
Firebush	*Hamelia patens*	6.5 – 13.0
Firecracker plant	*Russelia equisetiformis*	6.5 – 13.0
Forsythia	*Forsythia spp.*	3.0 – 9.5
Hibiscus	*Hibiscus spp.*	1.5 – 6.5
Holly – Burford	*Ilex cornuta "burfordi"*	6.5 – 13.0
Holly – Fosters	*Ilex x attenuata*	6.5 – 13.0
Holly – Japanese/Helleri	*Ilex crenata*	6.5 – 13.0
Holly – Nellie Stevens	*Ilex x 'Nellie R. Stevens'*	6.5 – 13.0
Holly – Yaupon	*Ilex vomitoria*	6.5 – 13.0
Honeysuckle	*Lonicera spp.*	1.5 – 6.5
Honeysuckle – vine	*Lonicera japonia*	4.5 – 6.5
Hydrangea	*Hydrangea spp.*	6.5 – 9.5
Ice Plant	*Delosperma spp.*	6.5 – 9.5
Indian Hawthorne	*Raphiolepsis indica*	6.5 – 13.0
Itea	*Itea virginica*	1.5 – 6.5
Ixora	*Ixora coccinea*	6.5 – 13.0
Japanese Blueberry	*Elaeocarpus decipiens*	6.5 – 9.5
Jasmine – Asiatic (ground cover)	*Trachelospermum asiaticum*	3.0 – 9.5
Jasmine – Confederate/Star (vine)	*Trachelospermum jasminoides*	3.0 – 6.5
Jasmine – Downy	*Jasminum multiflorum*	4.5 – 9.5
Jasmine – Winter	*Jasminum nudiflorum*	6.5 – 9.5
Juniper	*Juniperus*	6.5 – 13.0
Kinnikinnick/Bearberry	*Arctostaphylos uva-ursi*	4.5 – 9.5
Lantana	*Lantana camara*	3.0 – 6.5
Lilac	*Syringa spp.*	4.5 – 9.5
Lilac – Korean	*Syringa meyeri*	1.5 – 6.5
Loropetalum	*Loropetalum chinensis*	1.5 – 6.5
Mock orange	*Philadelphus spp.*	6.5 – 10
Nandina	*Nandina domestica*	4.5 – 6.5
Ninebark	*Physocarpus spp.*	1.5 – 4.5
Oleander	*Nerium spp.*	3.0 – 9.5
Orange Jasmine	*Murraya paniculata*	1.5 – 9.5
Photinia	*Photinia fraseri*	6.5 – 13.0
Pittosporum	*Pittosporum spp.*	6.5 – 13.0
Plumbago	*Plumbago auriculata*	3.0 – 13.0
Podocarpus Potentilla	*Podocarpus spp.* *Potentilla spp.*	3.0 – 13.0 1.5 – 3.0
Privet – California	*Ligustrum ovalifolium*	6.5 – 13.0
Privet – Japanese	*Ligustrum japonicum*	6.5 – 13.0
Pyracantha	*Pyracantha spp.*	6.5 – 9.5
Rhododendron	*Rhododendron spp.*	3.2 – 6.5
Rose	*Rosa spp.*	3.0 – 9.5
Rose of Sharon	*Hibiscus syriacus*	1.5 – 6.5
Rosemary	*Rosemarinus officinalis*	3.0 – 6.5
Schefflera	*Shefflera arboricola*	6.5 – 13.0
Sea Grape	*Coccoloba uvifera*	9.5 – 13
Serviceberry	*Amelanchier spp.*	1.5 – 3.0
Spirea – Japanese	*Spiraea japonica*	1.5 – 3.0
Spirea – Vanhouttei (bridal wreath)	*Spiraea x vanhouttei*	3.0 – 6.5
Strawberry Tree	*Arbutus unedo*	6.5 – 13.0
Sumac – Fragrant	*Rhus Aromatica*	6.0 – 9.5
Texas Sage (TX Ranger)	*Leucophyllum frutescens*	3.0 – 10.0
Trifoliate Orange	*Poncirus trifoliata*	6.5 – 13.0
Viburnum – Awabuki	*Viburnum awabuki*	9.5 – 13.0
Viburnum – Cranberry	*Viburnum trilobum*	3.0 – 13.0
Viburnum – Arrowwood	*Viburnum dentatum*	3.0 – 13.0
Viburnum - Leatherleaf	*Viburnum rhytidophyllum*	9.5 – 13.0
Viburnum – Wayfarer	*Viburnum lantana*	3.0 – 13.0
Viburnum – Sandankwa	*Viburnum suspensum*	6.5 – 9.5
Viburnum – Sweet	*Viburnum odoratissumum*	6.5 – 13.0

Plant	Scientific Name	Rate (fl. oz.) per gallon of spray solution
Viburnum – Walters	*Viburnum obovatum*	6.5 – 13.0
Vinca	*Vinca minor*	1.5
Wax Myrtle	*Marella cerifera*	3.0 – 6.5
Weigela	*Weigela florida*	1.5 - 6.5
Xylosma	*Xylosma congestum*	6.5 – 13.0
Yew	*Taxus spp.*	6.5 – 13.0

Table 2: Foliar Spray: Annual and Perennial Species and Rates For Vegetative Growth Control

Plant	Scientific Name	Rate (fl. oz.) per gallon of spray solution
Aster	*Aster spp.*	1.5 – 3.0
Astilbe	*Astilbe spp.*	
Bee Balm	*Monarda spp*	
Black-eyed susan	*Rudbeckia hirta*	
Cone flower	*Echinacea spp*	
Chrysanthemum	*Chrysanthemum spp.*	
Foxglove	*Digitalis spp.*	
Garden phlox	*Phlox paniculata*	
Gaura	*Gaura lindheimeri*	
Globe thistle	*Echinops ritro*	
Hosta	*Hosta spp.*	
Hydrangea	*Hydrangea spp.*	
Ligularia	*Ligularia spp.*	
Peony	*Peonia spp.*	
Russian Sage	*Perovskia atriplicifolia*	
Salvia	*Salvia spp*	
Sedum 'Autumn Joy'	*Sedum x Autumn joy*	
Yellow Loosestrife	*Lysimachia punctata*	

Soil Application
Soil applications can be made throughout the year, except when the soil is frozen or saturated with water. Note: When applied to the soil, Trimtect is absorbed by plant roots and translocated to the growing points (sub-apical meristems) in response to evaporative water loss (transpiration). If soil applications are made after leaf drop, uptake of Trimtect will not occur until development of new leaves and resumption of transpiration.

Remove mulch and/or landscape fabric and apply to mineral soil
Mix 1 part Trimtect with 11 parts water to create a Ready-To-Use (RTU) solution. See Table 3 below to determine how much RTU solution to apply per inch of trunk diameter at breast height (DBH) or foot of shrub height.

Basal Drench
Prior to application, dig a shallow furrow 2 – 6 inches deep around the base of the tree near the point of contact between the soil and the tree trunk (figure 1). Carefully pour the diluted mixture of Trimtect evenly around the tree into the furrow with a graduated container/jug or with a handheld hose connected to a trunk-mounted tank/hydraulic sprayer. To avoid possible product runoff after applying, refill the furrow with untreated soil.

Restriction
- Do not apply product to soil when soil is already saturated. Heavy rainfall or irrigation in treated areas may cause active ingredient to move laterally on slopes and collect in low areas. These areas may undergo more severe growth control for a longer period of time.

Soil Injection
Inject the Ready to Use solution approximately 2-6 inches deep at 50-200 psi using the volumes in Table 3. Orient injection orifices to release the diluted product horizontally at the point of injection. Divide the required dose evenly among injection sites spaced as uniformly as possible around the base of the tree.

Position the injection sites to release the diluted Trimtect as close as possible to the point of contact between the soil and the plant beneath the soil so that the solution is readily absorbed by the roots (Figure 2). Use at least 4 injection sites evenly spaced around the plant.

Table 3: Soil Application: Tree and shrub Species and Rates For Vegetative Growth Control

Plant	Scientific Name	Amount (Fl. oz.) of Diluted solution per DBH inch	Amount (ml of diluted solution per DBH inch
Arborvitae	*Thuja spp.*	15.0	450
Ash	*Fraxinus spp.*	15.0	450
Bur Oak	*Quercus spp.*	5.0	150
Cedar	All species	15.0	450
Crabapple	*Malus spp.*	2.5	75
Holly	*Ilex spp*	15.0	450
Honeylocust	*Gleditsia*	10.0	300
Japanese Maple	*Acer spp.*	2.5	75
Live Oak	*Quercus spp.*	5.0	150
Norway Maple	*Acer spp.*	2.5	75
Ornamental Pear	*Pyrus spp.*	15.0	450
Palm	All species	15.0	450
Pine	*Pinus spp.*	15.0	450
Privet	*Ligustrum spp.*	15.0	450
Red Maple	*Acer spp.*	2.5	75
Red Oak	*Quercus spp.*	10.0	300
Sweet Gum	*Liquidambar spp.*	2.5	75
Upright Yew	*Taxus spp.*	15.0	450
White Oak	*Quercus spp.*	5.0	150

Soil treatments for vines: Trimtect can also be used as a basal drench or soil injection to reduce the growth of vines. Refer to sections above for application instructions. Mix 1 part Trimtect with 11 parts water to create a Ready-To-Use (RTU) solution. The amount of RTU solution is based upon the accumulated surface area of the vines to be regulated.

Table 4: Soil Treatment: Vine Species and Rates for Vegetative Growth Control

Plant	Scientific Name	Rate
Boston ivy	*Parthenocissis tricuspidata*	1 gallon of RTU solution per 100 ft^2 of vine
Creeping Fig	*Ficus pumila*	
English Ivy	*Hedera spp.*	
Japanese honeysuckle	*Lonicera japonica*	
Trumpet Creeper	*Campsis radicans*	
Wisteria	*Wisteria spp.*	

Figure 1. Placement of Trimtect Ready-To-Use solution as a basal drench

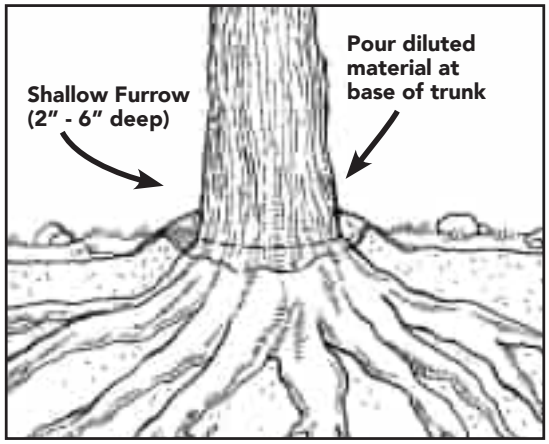
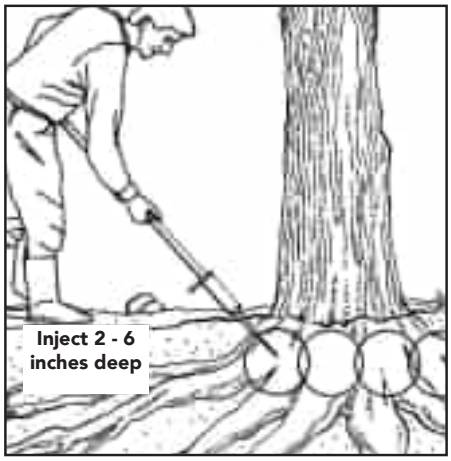


Figure 2. Placement of Trimtect Ready to Use solution as a soil injection application.



Growth Suppression of Low Maintenance Woody Plants
To minimize regrowth of brush after pruning, make foliar applications no more than 2 weeks following pruning. NOTE: Pruning after applications have been made will remove the Trimtect from the plants and can decrease the amount of growth reduction.

Spray solution until material begins to drip from all plant surfaces. Ensure that the foliage, canopy and all stems are thoroughly covered.

The use of a commercial spreader sticker such as Audible 90 is recommended to provide more thorough coverage on hard to wet plant tissue.

Mix 6.5 fl. oz. (192 ml) in 1 gallon (3.8 L) of water

Control and Suppression of Grasses, Broadleaf Weeds, Woody Plants and Vines
Trimtect can be used alone or tank mixed with commonly used herbicides such as triclopyr, imazapyr, picloram, ammonium salt of imazapic, MCPA, dicamba, and glyphosate to slow the growth or regrowth of grasses, broadleaf weeds, woody plants, vines and woody invasive species such as Kudzu that are growing around commercial and right of way areas.

Trimtect can also be tank mixed with herbicides to provide more persistent control for spot treatments such as around poles, road-way signs, utility boxes, fire hydrants, and when used in combination with herbicides as a chemical edger.

For best results apply when plants are actively growing. Difficult to control plants may require multiple treatments to achieve control. Consult all labels before using any tank mix partner. The most restrictive label requirement must be used for tank mixes. Do not use tank mixes on use sites which are not allowed on each label.

Tank mix up to 4 parts Trimtect with 1 part herbicide. Make applications as a spray to drip, ensuring the foliage, canopy and all woody stems are thoroughly covered.

- Do not exceed the maximum labeled application rates of Trimtect or the herbicide in the course of this application.
- Do not apply Trimtect to turf within rights-of-ways.
- Do not mow treated turf for at least three days following application
- Do not graze treated areas or harvest for forage or hay.
- After application to grasses that are normally watered and maintained, water within 24 hours to limit surface movement, but not to the point of runoff. To prevent product runoff, time applications to allow for watering-in and maximum absorption into treated turf prior to rain event.

If tank mixing a product for the first time, check physical compatibility by using correct proportions of each product in a small jar test.

TO REDUCE FIRE BLIGHT INFECTIONS OF SHOOTS (SHOOT BLIGHT)*

To temporarily suppress rapid shoot growth of fireblight susceptible species and reduce the incidence and severity of fire blight infections, mix 1 ¾ gallons (224 fl. oz.) of Trimtect with 100 gallons of water and apply as a foliar spray to the point of runoff. Make application in the spring when new shoot growth is 1 – 3 inches. For optimum results, use as a part of a comprehensive IPM program for fireblight.

The use of commercial water conditioners, wetting agents and/or spreader stickers may provide more thorough coverage on hard to wet plant tissue.

Note:
- Will not suppress the blossom blight stage of fire blight.

**Not approved for this use in California*

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.
Pesticide Storage: Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse (or equivalent) promptly after emptying. Offer for recycling, if available or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(non-refillable <5 gallons) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

Notice: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

Follow the Directions for Use carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Tree injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or tree conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of RAINBOW ECOSCIENCE or seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold RAINBOW ECOSCIENCE and Seller harmless for any claims relating to such factors.

RAINBOW ECOSCIENCE warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions For Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or RAINBOW ECOSCIENCE, and Buyer and User assume the risk of any such use. RAINBOW ECOSCIENCE MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, RAINBOW ECOSCIENCE or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF RAINBOW ECOSCIENCE AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF RAINBOW ECOSCIENCE OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

RAINBOW ECOSCIENCE and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and of Liability, which may not be modified except by written agreement signed by a duly authorized representative of RAINBOW ECOSCIENCE.

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Rainbow Treecare Scientific Advancements DBA:
Rainbow Ecoscience
11571 K-Tel Dr. Minnetonka, MN 55343
1-877-272-6747
www.rainbowecoscience.com

CAMBISTAT®

TREE GROWTH REGULATOR

Active Ingredient:	By Wt
Paclobutrazol: (R*, R*)-(±)-ß-[(4-chlorophenyl) Methyl]-ą-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol	22.3%
Other Ingredients:	77.7%
Total:	**100.0%**

NET CONTENTS: 1 gallon (3.78 L)

Contains 2 lbs. active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See Side/Back Panel for Additional Precautionary Statements, First Aid and Directions for Use

EPA Reg. No. 74779-3 **EPA Est. No.** 63416-MN-001

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FIRST AID	
IF INHALED	• Move person to fresh air. • If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF SWALLOWED:	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal), or Chemical Emergency Assistance (Spill, Leak, or Accident). Call CHEMTREC at **1-800-424-9300.**	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Harmful if inhaled. Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long sleeved shirt, long pants, socks, shoes and gloves. Remove and wash contaminated clothing before reuse. Avoid breathing spray mist.

Personal Protective Equipment (PPE)
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any water proof material
- Shoes plus socks.

Applicators and other handlers are also recommended to wear protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR LESS THAN OPTIMAL GROWTH REDUCTION.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

General Information

Cambistat™ is a plant growth regulator that slows the vegetative growth of plants by inhibiting gibberellin biosynthesis. Cambistat™ is designed to gently and predictably slow the growth of trees. A single application provides a long lasting reduction of vegetative growth, effectively extending the trimming cycle of trees and reducing the amount of woody growth that must be removed. In addition, use of Cambistat™ may cause other plant growth effects that are beneficial for trees such as increased root density, improved drought and heat resistance, and higher tolerance to insects and diseases. Cambistat will also benefit trees that are too large for their growing site and increase the longevity of trees growing in stressful environments. Cambistat™ may be applied by soil injection or basal soil drench.

Cambistat™ may be used on utility rights-of-way, residential areas, urban areas, and other non-crop areas.

Indications of Tree Response:

Cambistat™ is readily absorbed by plant roots and is translocated to the actively growing points. Initially, an intense greening of the foliage may occur in response to Cambistat™ treatment. Long-term effects include: shortened internodes and smaller, thicker leaves. Visible results may be seen in as little as 2 months but measurable growth reduction may take as long as a year to occur.

General Use Precautions

- Apply at recommended rates and follow safety precautions.
- Non-fruit or nut bearing trees that are not specified on this label may be treated if all other label directions are followed.
- The degree and duration of Cambistat™ applications can be affected by local soil and environmental conditions. Carefully read and follow label instructions to ensure effectiveness.
- Retreat every 3 years or wait until the effects from the previous application subside.
- Heavily compacted soils around trees may need to be vertical mulched, aerated or receive other remedial soil compaction treatments for Cambistat™ to effectively promote root growth.
- Localized stunting or injury of turfgrass or other non-target plants immediately adjacent to the treatment site may occur if Cambistat flows off of the application site.
- Avoid Cambistat™ basal drench applications on inclines and other areas where treated soil is likely to be washed away from the base of the tree by rainfall or irrigation.
- Shrubs and/or herbaceous ornamentals next to treated trees may be affected if their roots extend into the treatment zone.
- Do not treat sugar maple trees that will be tapped for sugar within one year.
- Do not treat fruit or nut trees that will be harvested within one year.
- Do not treat severely stressed trees or trees in rapid decline.
- Do not apply Cambistat™ through any irrigation system.

DOSING

It is important to apply the proper dose to the tree you are treating. Use the following steps to determine the required dose:

1) Correctly identify the tree species.
2) Measure tree diameter at breast height (DBH). (See determining DBH)
3) Locate the correct dosage rate category for your species (See tables 2 and 3).
4) Locate the amount of material to use based on the category and DBH of your species (See tables 4 and 5).
5) Determine if any rate reductions are necessary (See Dosage Reduction Considerations).

DETERMINING DBH

Single Stem: Measure the standard DBH of the tree at 4' 6" above the soil.

Multiple Individual Trees Growing in Close Proximity: For trees that have grown close together, measure the DBH of each stem and treat each tree individually. You may need to make rate reductions due to the overlapping canopies (See Dosage Reduction Considerations). Also, because of close proximity of trees, it may be necessary to apply Cambistat to outer perimeter of clumped trees.

Multi-stem Split Below DBH: For a tree that has multiple stems splitting below DBH, measure the tree at the narrowest point between the root flare and the split.

Stem Clusters: For trees that are grown too close together to be treated as individual trees, measure the DBH of each stem and add the measurements together. You may need to make rate reductions due to overlapping canopies (see Dosage Reduction Considerations). Also, because of close proximity of trees, it may be necessary to apply Cambistat to outer perimeter of clumped trees.

Tree Splits at DBH: For a tree that splits into two or more stems at DBH, measure and add the diameter of the stems and measure the narrowest point below the split. Take the average of these values.

DOSAGE REDUCTION CONSIDERATIONS

Canopy Missing: Look at the canopy of the tree and compare it to a "normal" canopy for that trunk diameter. For example, if a tree is missing large branches from storm damage or utility line clearance pruning it is necessary to estimate the percentage of canopy missing and subtract this percentage from the dosage amount. i.e. subtract 30% from dosage if 30% is missing from the canopy.

Canopy Suppression: Trees growing in close proximity to other trees, multi-stemmed trees, and trees growing in clusters may have overlapping canopies. Your judgment is required to compare the canopies of these trees to the "normal" canopy for trees with similar trunk diameter. It may be necessary to reduce the dosage amount based on the percent of suppression and canopy overlap.

Stressed or Declining Trees: Dosage rates for trees that have lost canopy from construction damage, storm damage, insects, disease, girdling roots and/or other types of stress must be reduced to minimize the risk of over-regulation. A full dose of Cambistat applied to a tree with small, thin, or declining canopy may result in smaller leaves and a sparse canopy.

MIXING PROCEDURE

Dilute 1 part Cambistat with 11 parts water. To make a large Ready to use solution, combine 1 quart of Cambistat with 11 quarts of water to make 3 gallons of solution. See table 1 for additional examples. When mixing large amounts of Cambistat, mix only the amount that will be used within that day. Cambistat is best applied with equipment that has constant agitation.

Table 1: Examples of the volumes of Cambistat and Water needed to make Ready-to-Use solution.

Volume of Cambistat	Volume of Water	Makes
1 qt	11 quarters	3 gallons
1 gallon	11 gallons	12 gallons
4 gallons	44 gallons	48 gallons

If applying mixture to compacted soils, high clay content soils, or other hard-to-wet soils, use a nonionic, organosilicone wetting agent (surfactant) to increase penetration of the soil. Mix approximately ½ ounce surfactant per 3 gallons or 1 pint surfactant per 100 gallons. Follow all label directions and precautions on the surfactant product label.

APPLICATION METHODS

Soil Injection

Inject the Ready to Use solution approximately 2-6 inches deep at 50-200 psi using the volumes in Table 5. Orient injection orifices to release the diluted product horizontally at the point of injection. Divide the required dose evenly among injection sites spaced as uniformly as possible around the base of the tree.

As an example, if you are using the HTI 2000 soil injector, the standard injection volume per site is 250 mls. You will divide the total dose a tree requires by 250 mls to determine the number of injection sites. If the number of injection sites is a fraction, for example, you have a 12 inch tree in the B category. The total dose for the tree is 1200 ml of diluted solution. Dividing 1200 ml by 250 mls/injection site = 4.8 injection sites. In this case, you will inject 4 locations with 250 mls each and a 5th injection sites with 200 mls (see table 6 for partial hole volumes). This will deliver the total dose of 1200 mls for the tree.

Position the injection sites to release the diluted Cambistat™ as close as possible to the point of contact between the soil and the tree beneath the soil so that the solution is readily absorbed by the tree (Figure 1). Locate injection sites next to buttress roots (Figure 1). For trees less than 6 inches DBH, use at least 4 injection sites evenly spaced around the tree.

Soil Basal Drench

Carefully dig a shallow furrow 2 – 6 inches deep around the base of the tree. If treating an individual tree, use the volumes determined in Table 4. If treating multiple trees, a Ready-To-Use solution can be created by using the volumes in Table 5. Carefully pour the Ready-To-Use solution evenly around the tree into the furrow using an applicator that provides a controlled flow. Make the application at the point of contact between the soil and the tree trunk (Figure 2). After the diluted product has been absorbed by the soil, refill the furrow with untreated soil. Note: If making an application on a slope, a soil dam may be created to contain the application within the furrow.

APPLICATION TIMING

For a more manicured look, apply Cambistat™ to trees 30 to 180 days before they are pruned. To allow some regrowth and a more natural look, apply Cambistat™ at the time of pruning.

Soil applications can be made throughout the year, except when the soil is frozen or saturated with water. Note: When applied to the soil, Cambistat™ is absorbed by tree roots and translocated to the growing points (sub-apical meristems) in response to evaporative water loss (transpiration). If applications are made after leaf drop, uptake of Cambistat™ will not occur until development of new leaves and resumption of transpiration.

For questions, contact Rainbow Ecoscience at 877-272-6747

Table 2: LANDSCAPE APPLICATION Tree reference list and dosage rates.

Species	Category	Species	Category	Species	Category
Acacia	F	Hickory	E	Olive - Black	F
Ailanthus	D	Holly - American	E	Olive - European	E
Alder	F	Holly – Nellie Stevens	E	Olive - Russian	E
Anagua	E	Holly - Yaupon	B	Orchid Tree - Hong Kong	C
Arborvitae	F	Horsechestnut	C	Osage Orange	F
Ash	F	Huisache	E	Palms	F
Aspen	F	Ironwood / Hornbeam	D	Paloverde	E
Australian Bottle	C	Jacaranda	F	Paulownia	E
Australian Pine	A	Japanese Tree Lilac	E	Pear - Ornamental	F
Bald Cypress	F	Juniper	F	Pecan	E
Banyan - Ficus	F	Katsura - Japanese	A	Persimmon	C
Basswood, American	A	Larch	F	Photinia	E
Baytree	E	Laurel	F	Pines*	F
Beech	E	Leyland Cypress	F	Plum - Ornamental	E
Birch	F	Linden	A	Poinciana	F
Bischofia	F	Locust - Black	F	Raintree - Golden	F
Black Gum / Tupelo	B	Locust - Honey	E	Redcedar - Eastern	F
Black Olive	F	Lombardy Poplar	F	Redwood	F
Bottlebrush	F	Lysiloma	F	Rosewood / Tipuana	C
Boxelder	A	Magnolia	F	Russian Olive	E
Buckeye	D	Mahogany	F	Saltcedar	F
Buttonwood	F	Maple - Amur	B	Sassafrass	E
California Pepper	C	Maple - Bigleaf	D	Sea Grape	E
Camphor	E	Maple - Japanese (caution)**	A	Soapberry	E
Catalpa	E	Maple - Norway	B	Spruce*	F
Cedar – Deodora	E	Maple - Red	B	Sugarberry /So. Hackberry	F
Cedar - all others	F	Maple - Silver	D	Sumac - African	E
Cherry - Black	F	Maple - Sugar	B	Sycamore	F
Cherry - Ornamental	E	Melaleuca	F	Tabebuia	F
Cherry - Laurel	E	Mesquite	F	Tallow - Chinese	F
Chinaberry	E	Mimosa	E	Tallowwood	F
Chinese Pistache	E	Mountain Ash	B	Tamarisk	F
Cottonwood*	F	Mulberry	F	Tepequaje	E
Crabapple	F	Oak – Black	E	Tulip / Yellow Poplar	F
Crape Myrtle	B	Oak – Blackjack	E	Tupelo / Black Gum	B
Cryptomeria	F	Oak – Bur	D	Walnut	E
Cypress	B	Oak - Laurel	F	Waxmyrtle - Pacific	F
Ebony - Texas	F	Oak - Live - (<10”)	B	Willow	F
Elm - Cedar	B	Oak - Live (>10”)	E	Xylosma	C
Elm - Chinese/Lacebark	A	Oak - Pin	E	Yellow Poplar / Tulip	F
Elm - Siberian	A	Oak - Post	E	Yew	F
Elm - (all others)	B	Oak - Red	E	Zelkova	B
Eucalyptus	F	Oak - Sand Shinnery	E		
Ficus	F	Oak - Scarlet	E		
Fir	F	Oak - Shumard	E		
Ginkgo	F	Oak - Valley	F		
Gumbo Limbo	F	Oak - Water	E		
Hackberry	F	Oak - White	D		
Hawthorn	C	Oak - Willow	E		

Call 877-272-6747 for questions.

*These species typically show less growth reduction compared to other species.
**Japanese Maple can be easily over regulated, field reports suggest ½ A rate may be more appropriate.

Table 3: RIGHTS-OF-WAY APPLICATIONS: Tree reference list and dosage rates.

Species	Category	Species	Category	Species	Category
Acacia	F	Hickory	E	Oak - Willow	E
Ailanthus	D	Holly - American	E	Oleander	C
Alder	F	Holly – Nellie Stevens	E	Olive - Black	F
Anaqua	E	Holly - Yaupon	B	Olive - European	E
Arborvitae	F	Hong Kong Orchid Tree	C	Olive - Russian	E
Ash	F	Horsechestnut	C	Orchid Tree - Hong Kong	C
Aspen	F	Huisache	E	Osage Orange	F
Australian Bottle	C	Ironwood / Hornbeam	D	Palms	F
Australian Pine	B	Jacaranda	F	Paloverde	E
Bald Cypress	F	Juniper	F	Paulownia	E
Banyan - Ficus	F	Katsura - Japanese	B	Pear - Ornamental	F
Basswood Amer. (>10”)	B	Larch	F	Pecan	E
Basswood - Amer. (<10”)	A	Laurel	F	Persimmon	C
Baytree	E	Lilac - Japanese	E	Photinia	E
Beech	E	Linden (>10”)	B	Pines*	F
Birch	F	Linden (<10”)	A	Plum - Ornamental	E
Bischofia	F	Locust - Black	F	Poinciana	F
Black Gum / Tupelo	C	Locust - Honey	E	Poplar - Lombardy	F
Bottlebrush	F	Lombardy Poplar	F	Raintree - Golden	F
Boxelder	B	Lysiloma	F	Redbud	A
Buckeye	D	Magnolia	F	Redcedar - Eastern	F
Buttonwood	F	Mahogany	F	Redwood	F
California Pepper	C	Maple - Amur	B	Rosewood / Tipuana	C
Camphor	E	Maple - Bigleaf	E	Saltcedar	F
Catalpa	F	Maple - Japanese (caution)**	A	Sassafrass	E
Cedar – Deodora	E	Maple - Norway (>10”)	C	Sea Grape	E
Cedar - all others	F	Maple - Norway (<10”)	B	Soapberry	E
Cherry - Black	F	Maple - Red (>10”)	C	Spruce*	F
Cherry - Laurel	E	Maple - Red (<10”)	B	Sugarberry /So. Hackberry	F
Cherry - all others	E	Maple - Silver (>10”)	D	Sumac - African	E
Chinaberry	E	Maple - Silver (<10”)	C	Sweetgum (Eastern US)	A
Chinese Pistache	E	Maple - Sugar (>10”)	C	Sweetgum (Western US)	B
Cottonwood*	F	Maple - Sugar (<10”)	B	Sycamore	F
Crabapple	F	Melaleuca	F	Tabebuia	F
Crape Myrtle	C	Mesquite	E	Tallow - Chinese Tamarisk	F
Cryptomeria	F	Mimosa	E	Tepequaje	F
Cypress - Leyland	F	Mountain Ash	B	Tulip / Yellow Poplar	F
Cypress - all others	B	Mulberry	F	Tupelo / Black Gum	C
Dogwood - CAUTION**	A	Oak – Black	E	Walnut	E
Ebony - Texas	F	Oak – Blackjack	E		
Elm - Cedar	B	Oak – Bur	D	Waxmyrtle - Pacific	F
Elm - Chinese/Lacebark	A	Oak - Laurel	F	Willow	F
Elm - Siberian	A	Oak - Live (>10”)	E	Xylosma	C
Elm -all others (>10”)	C	Oak - Live (<10”)	C	Yellow Poplar / Tulip	F
Elm -all others (<10”)	B	Oak - Pin	E	Yew	F
Eucalyptus	F	Oak - Post	E	Zelkova	B
Ficus	F	Oak - Red	E		
Fir	F	Oak - Sand Shinnery	E		
Ginkgo	F	Oak - Scarlet	E		
Gumbo Limbo	F	Oak - Shumard	E		
Hackberry	F	Oak - Valley	F		
Hawthorn	D	Oak - Water	E		
Hemlock	F	Oak - White	E		

Call 877-272-6747 for questions.
*These species typically show less growth reduction compared to other species.
**Dogwood and Japanese Maples are very sensitive to Cambistat and can be easily over regulated, field reports suggest 1/2 A rate may be more appropriate.

Table 4: Cambistat individual dose rate sheet.
Mix the required volume of Cambistat with the required volume of water.

Dia. of Tree at Breast Height (DBH) (Inches)	Category A		Category B		Category C		Category D		Category E		Category F	
	ml Cambistat	ml water	ml Cambistat	ml water	ml Cambistat	ml water	ml Cambistat	ml water	ml Cambistat	ml water	ml Cambistat	ml water
4	17	185	23	250	42	460	46	510	50	550	67	735
5	21	230	28	310	52	575	57	630	63	690	83	920
6	25	275	33	370	63	690	69	760	75	825	100	1100
7	44	480	58	645	73	805	80	885	88	965	117	1285
8	50	550	67	735	83	920	92	1000	100	1100	133	1470
9	56	620	75	825	94	1030	103	1135	113	1240	150	1650
10	63	690	83	920	104	1145	115	1260	125	1375	167	1835
11	69	755	92	1010	115	1260	126	1390	138	1515	183	2020
12	75	825	100	1100	125	1375	138	1515	150	1650	200	2200
13	81	900	108	1190	135	1490	149	1640	163	1790	217	2385
14	88	965	117	1285	146	1605	160	1765	175	1925	233	2570
15	94	1030	125	1375	156	1720	172	1895	188	2065	250	2750
16	100	1100	133	1470	167	1835	183	2020	200	2200	267	2935
17	106	1170	142	1560	177	1950	195	2145	213	2340	283	3120
18	113	1240	150	1650	188	2065	206	2270	225	2475	300	3300
19	119	1310	158	1745	198	2177	218	2395	238	2615	317	3485
20	125	1375	167	1835	208	2290	229	2520	250	2750	333	3670
21	131	1445	175	1925	219	2410	241	2650	263	2890	350	3850
22	138	1515	183	2020	229	2520	252	2775	275	3025	367	4035
23	144	1580	192	2110	240	2635	264	2900	288	3165	383	4220
24	150	1650	200	2200	250	2750	275	3025	300	3300	400	4400
25	156	1720	208	2295	260	2865	287	3150	313	3440	417	4585
26	162	1787	217	2385	271	2980	298	3277	325	3575	433	4765
27	169	1855	225	2475	281	3095	310	3400	338	3715	450	4950
28	175	1925	233	2570	292	3210	321	3530	350	3850	467	5135
29	181	1995	242	2660	302	3320	332	3660	363	3990	483	5320
30	188	2060	250	2750	313	3440	344	3780	375	4125	500	5500
31	194	2130	258	2840	323	3550	355	3910	388	4265	517	5685
32	200	2200	267	2930	333	3670	367	4035	400	4400	533	5870
33	206	2270	275	3025	345	3780	378	4160	413	4540	550	6050
34	213	2340	283	3120	354	3900	390	4285	425	4675	567	6235
35	219	2405	292	3210	365	4010	401	4410	438	4810	583	6415
36	225	2475	300	3300	375	4125	413	4540	450	4950	600	6600
37	231	2545	308	3390	386	4240	424	4664	463	5090	617	6780
38	238	2610	317	3480	396	4355	435	4790	475	5225	633	6970
39	244	2680	325	3575	406	4470	447	4915	488	5365	650	7150
40	250	2750	333	3670	417	4585	458	5040	500	5500	667	7335
41	256	2820	342	3760	427	4700	470	5168	513	5640	683	7520
42	263	2890	350	3850	438	4815	481	5295	525	5775	700	7700
43	269	2955	358	3940	448	4930	493	5420	538	5915	717	7885
44	275	3025	367	4035	458	5040	504	5545	550	6050	733	8065
45	281	3095	375	4125	469	5155	516	5670	563	6190	750	8250
46	288	3160	383	4220	479	5270	527	5800	575	6325	767	8435
47	294	3230	392	4310	490	5385	539	5924	588	6463	783	8615

Table 5: Ready-To-Use (RTU) rate sheet and the number of soil injection holes needed (based on 250ml delivered per hole). Make a RTU solution by combining 11 parts of water with 1 part of Cambistat.

Dia. of Tree at Breast Height (DBH) (Inches)	Category A		Category B		Category C		Category D		Category E		Category F	
	mL of Ready-To-Use solution	# of injection sites	mL of Ready-To-Use solution	# of injection sites	mL of Ready-To-Use solution	# of injection sites	mL of Ready-To-Use solution	# of injection sites	mL of Ready-To-Use solution	# of injection sites	mL of Ready-To-Use solution	# of injection sites
4	202*	BD**	273*	BD**	500	BD**	550	BD**	600	BD**	800	3.2
5	251*	BD**	338*	BD**	625	BD**	688	BD**	750	3	1000	4
6	300*	BD**	403*	BD**	750	3	825	3.3	900	3.6	1200	4.8
7	525	BD**	700	BD**	875	3.5	963	3.9	1050	4.2	1400	5.6
8	600	BD**	800	3.2	1000	4	1100	4.4	1200	4.8	1600	6.4
9	675	BD**	900	3.6	1125	4.5	1238	5	1350	5.4	1800	7.2
10	750	3	1000	4	1250	5	1375	5.5	1500	6	2000	8
11	825	3.3	1100	4.4	1375	5.5	1513	6.1	1650	6.6	2200	8.8
12	900	3.6	1200	4.8	1500	6	1650	6.6	1800	7.2	2400	9.6
13	975	3.9	1300	5.2	1625	6.5	1788	7.2	1950	7.8	2600	10.4
14	1050	4.2	1400	5.6	1750	7	1925	7.7	2100	8.4	2800	11.2
15	1125	4.5	1500	6	1875	7.5	2063	8.3	2250	9	3000	12
16	1200	4.8	1600	6.4	2000	8	2200	8.8	2400	9.6	3200	12.8
17	1275	5.1	1700	6.8	2125	8.5	2338	9.4	2550	10.2	3400	13.6
18	1350	5.4	1800	7.2	2250	9	2475	9.9	2700	10.8	3600	14.4
19	1425	5.7	1900	7.6	2375	9.5	2613	10.5	2850	11.4	3800	15.2
20	1500	6	2000	8	2500	10	2750	11	3000	12	4000	16
21	1575	6.3	2100	8.4	2625	10.5	2888	11.6	3150	12.6	4200	16.8
22	1650	6.6	2200	8.8	2750	11	3025	12.1	3300	13.2	4400	17.6
23	1725	6.9	2300	9.2	2875	11.5	3163	12.7	3450	13.8	4600	18.4
24	1800	7.2	2400	9.6	3000	12	3300	13.2	3600	14.4	4800	19.2
25	1875	7.5	2500	10	3125	12.5	3438	13.8	3750	15	5000	20
26	1950	7.8	2600	10.4	3250	13	3575	14.3	3900	15.6	5200	20.8
27	2025	8.1	2700	10.8	3375	13.5	3713	14.9	4050	16.2	5400	21.6
28	2100	8.4	2800	11.2	3500	14.0	3850	15.4	4200	16.8	5600	22.4
29	2175	8.7	2900	11.6	3625	14.5	3988	16	4350	17.4	5800	23.2
30	2250	9	3000	12	3750	15	4125	16.5	4500	18	6000	24
31	2325	9.3	3100	12.4	3875	15.5	4263	17.1	4650	18.6	6200	24.8
32	2400	9.6	3200	12.8	4000	16	4400	17.6	4800	19.2	6400	25.6
33	2475	9.9	3300	13.2	4125	16.5	4538	18.2	4950	19.8	6600	26.4
34	2550	10.2	3400	13.6	4250	17	4675	18.7	5100	20.4	6800	27.2
35	2625	10.5	3500	14	4375	17.5	4813	19.3	5250	21	7000	28
36	2700	10.8	3600	14.4	4500	18	4950	19.8	5400	21.6	7200	28.8
37	2775	11.1	3700	14.8	4625	18.5	5088	20.4	5550	22.2	7400	29.6
38	2850	11.4	3800	15.2	4750	19	5225	20.9	5700	22.8	7600	30.4
39	2925	11.7	3900	156	4875	19.5	5363	21.5	5850	23.4	7800	31.2
40	3000	12	4000	16	5000	20	5500	22	6000	24	8000	32
41	3075	12.3	4100	16.4	5125	20.5	5638	22.6	6150	24.6	8200	32.8
42	3150	12.6	4200	16.8	5250	21	5775	23.1	6300	25.2	8400	33.6
43	3225	12.9	4300	17.2	5375	21.5	5913	23.7	6450	25.8	8600	34.4
44	3300	13.2	4400	17.6	5500	22	6050	24.2	6600	26.4	8800	35.2
45	3375	13.5	4500	18	5625	22.5	6188	24.8	6750	27	9000	36
46	3450	13.8	4600	18.4	5750	23	6325	25.3	6900	27.6	9200	36.8
47	3525	14.1	4700	18.8	5875	23.5	6463	25.9	7050	28.2	9400	37.6
48	3600	14.4	4800	19.2	6000	24	6600	26.4	7200	28.8	9600	38.4
49	3675	14.7	4900	19.6	6125	24.5	6738	27	7350	29.4	9800	39.2
50	3750	15	5000	20	6250	25	6875	27.5	7500	30	10000	40

*The dosage rate for this tree has been adjusted down due to sensitivity of small trees in this category.
**Use the basal drench application method to apply Cambistat to trees of this size in this category.

Table 6: Partial hole volumes for soil injection (based on 250 ml delivered per hole)

Partial hole	Volume
.1	25 ml
.2	50 ml
.3	75 ml
.4	100 ml
.5	125 ml
.6	150 ml
.7	175 ml
.8	200 ml
.9	225 ml

Figure 1. Placement of Cambistat™ as a soil injected treatment.

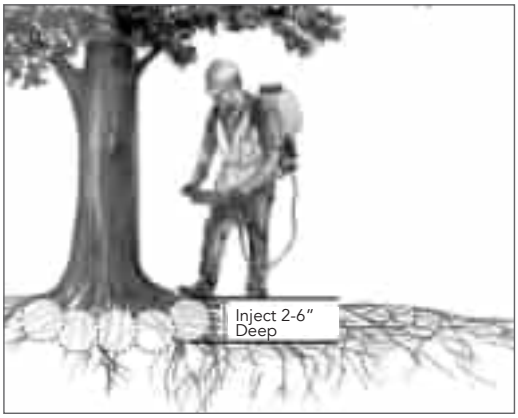
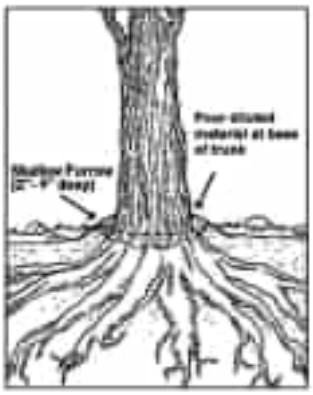


Figure 2. Placement of Cambistat™ as a basal drench.



STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Pesticide Storage: Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

Container Disposal: Non-refillable container: Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Offer for recycling, if available or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(non-refillable <5 gallons) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

(non-refillable >5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use for disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

Notice: Read the entire Directions For Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

Follow the Directions For Use carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Tree injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or tree conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of RAINBOW ECOSCIENCE or seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold RAINBOW ECOSCIENCE and Seller harmless for any claims relating to such factors.

RAINBOW ECOSCIENCE warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions For Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or RAINBOW ECOSCIENCE, and Buyer and User assume the risk of any such use. RAINBOW ECOSCIENCE MAKES NO WARRANTIES OF MERCHANABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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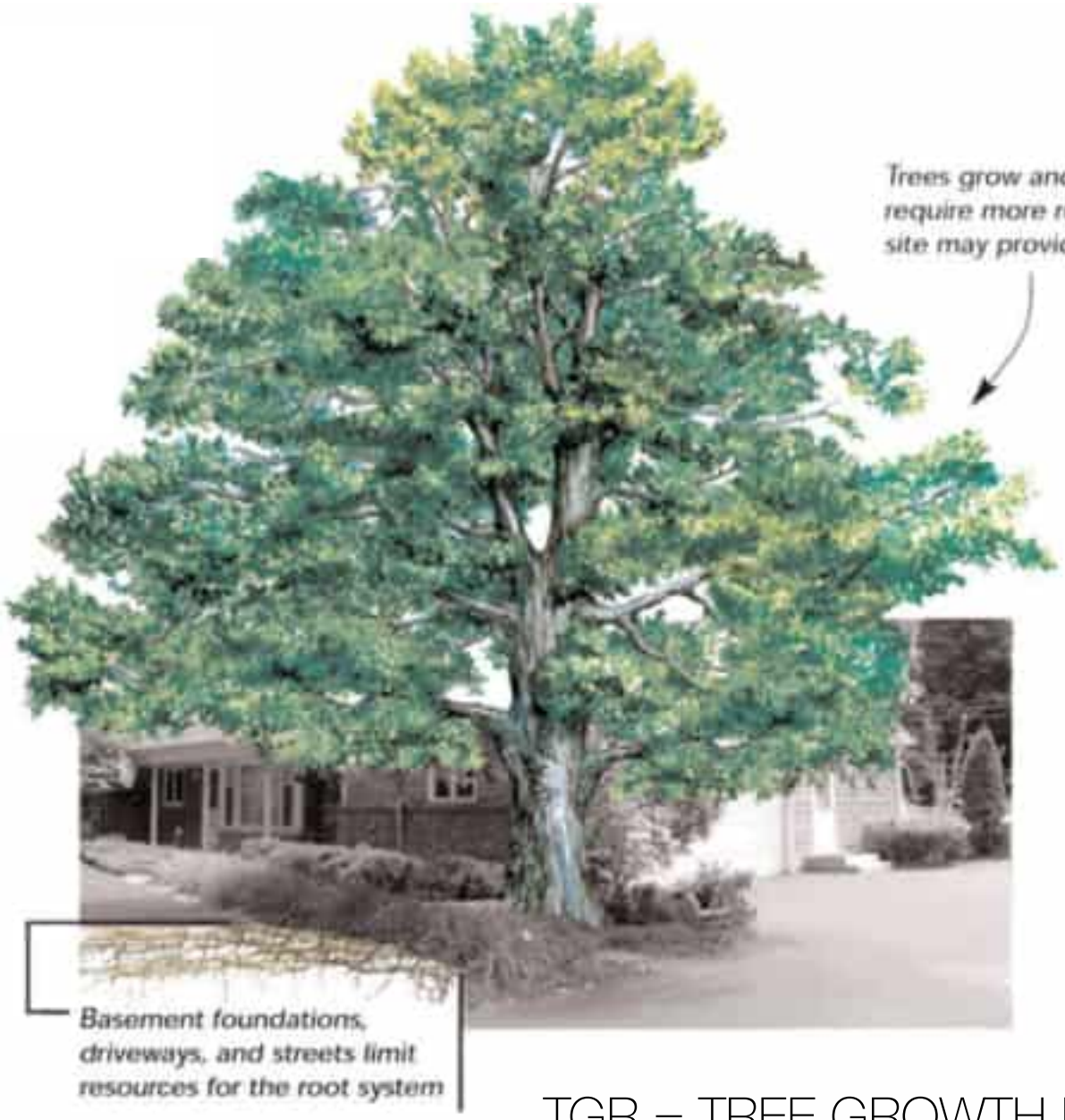
TGR | WHAT IS IT?



Tree Growth Regulators can generally reduce growth by 80-90% over a 3-year period. Reduced growth is favorable for trees growing in a limited space or around infrastructure and can help you:

- Safely maintain the visual appeal of the landscape
- Reduce the amount of live wood pruning required
- Maintain a smaller tree when there is a restricted root zone.
- Extend the time between pruning events
- Reduce root-causing damage to sidewalks and foundations

TGR = TREE GROWTH REGULATOR

Environmentally Safe, Synthetic Hormone Blocker

TGR USAGE

#1 EXTEND PRUNING CYCLE

TGR USAGE

#2 EXTEND LIFE IN LIMITED GROWING SPACE

Small Site Space

Lifting Sidewalks

- TGR redirects growth from the canopy and woody roots to the fine roots system

- Prune less often where clearance is an annual cost

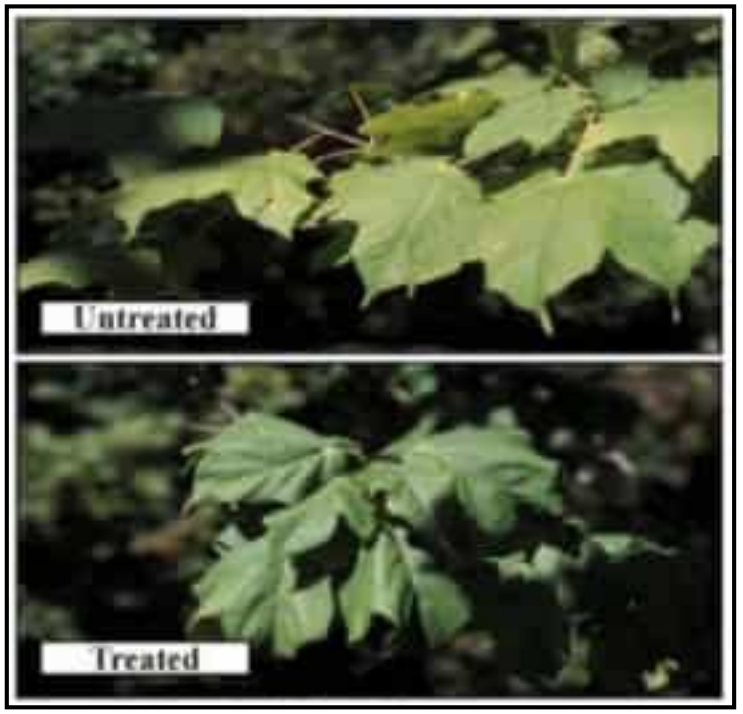
- Extend the life of sidewalks and surrounding infrastructure where trees are in small spaces

TGR USAGE

#3 INCREASE STRESS TOLERANCE

Before Treatment

After



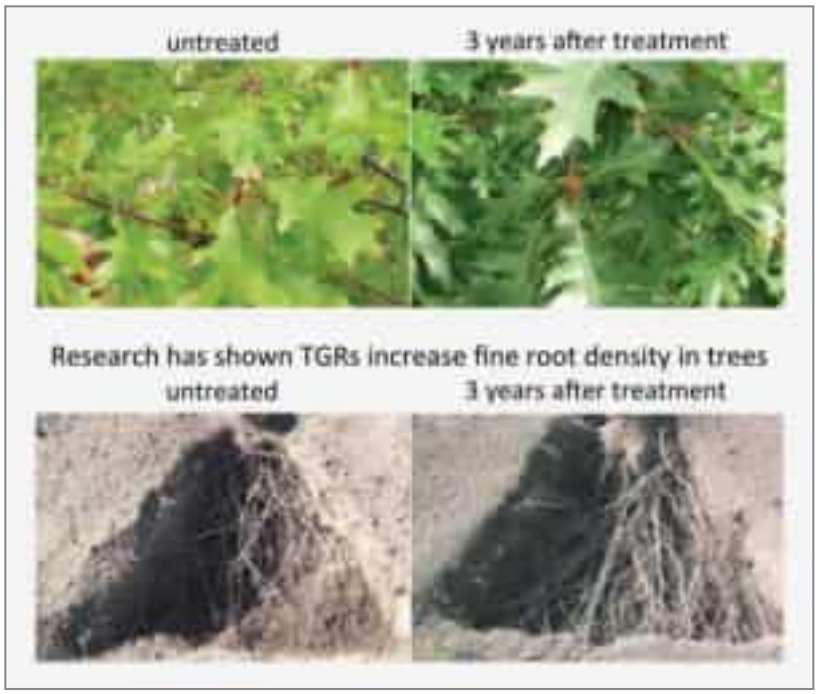
- Increases the fine root density to improve root health and water/nutrient uptake.

- Increases thickness of leaves/needles that reduces water loss and increases pest tolerance.

- Redirects growth from canopy to roots to preserve energy and increase health

TGR USAGE

#4 INCREASE FINE ROOTS AFTER CUTTING



- Best to treat the tree prior to root cutting.

- An increase in the fine roots will help combat adverse health effects when the roots are cut.

- TGR mitigates the health risk, not the risk that may result in removing too much of the anchoring roots that stabilize the tree.

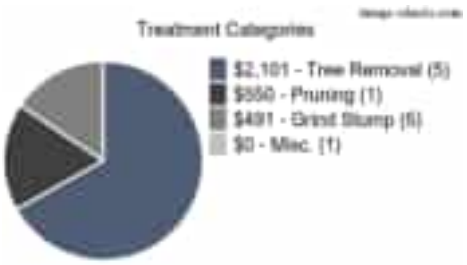
PROPOSAL FOR WATERFALL GARDEN PARK

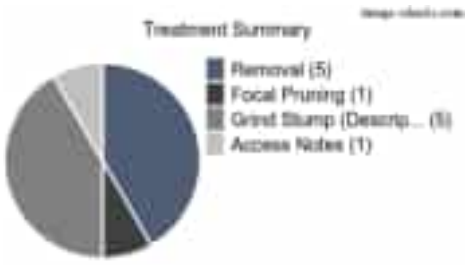
2026 Tree Removal and Associated Documentation Waterfall Garden Park/Rich Landscaping

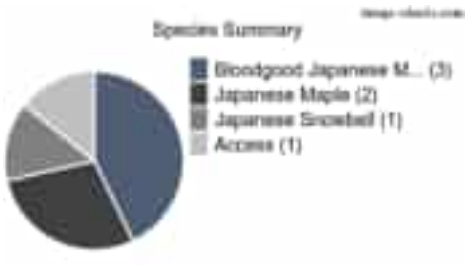
Proposal ID: 423581
Contact: Josh Richards
Info: josh@richlandscaping.com - (206) 396-3713
Address: 219 2nd Ave S, Seattle, WA 98104

SALES REP
Kelly Wheeler
kelly@aplustree.com
415-553-0201

Total: $4,192.06
Created: 2026-04-28 12:04:23

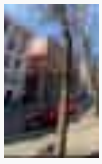






Trees

General Tree Care & Plant Health Care Services

Tree	Line	Name	Treatment	Bid ($)
	1	Japanese Maple (Acer palmatum) [1002574225] **6-12" Very Poor** Obvious stress, response growth, interior of tree was cleared out too much. Some Branch conflict with roof. Guy wire was left on for far too long, is damaging branch. 5.5, 5.5, 4, 1. 8.7 inch dbh: tier 4. Tree has overgrown its space, has not been maintained in a manner consistent to the intent under which the park was created.	Removal Grind Stump (Description at Bottom of Estimate)	$462.00 $113.00
	2	Bloodgood Japanese Maple (Acer palmatum 'Bloodgood') [1002574219] **6-12" Fair** Obvious stress, response growth. Branch conflict with roof. Tree has been over pruned, cleared out way too much in the interior. 9.5, 6.5. 11.5 inch: Tier 4 tree. Has not been maintained, according to the original intent of the park, pruning to achieve. The original intent will result in noncompliant pruning practices that will most likely result in disfigurement, decline, and eventual death.	Removal Grind Stump (Description at Bottom of Estimate)	$462.00 $105.00
	3	Bloodgood Japanese Maple (Acer palmatum 'Bloodgood') [1002574218] **6-12" Fair** Obvious stress, response growth. 7.4, 3, 2. 8.23 inch dbh, tier 4 tree. Has not been maintained, according to the original intent of the park, pruning to achieve. Pruning to conform to The original intent will result in noncompliant pruning practices that will most likely result in disfigurement, decline, and eventual death.	Removal Grind Stump (Description at Bottom of Estimate)	$316.00 $91.00
	4	Bloodgood Japanese Maple (Acer palmatum 'Bloodgood') [1002574102] **6-12" Poor** 8.7 inch dbh. tier 4 tree.	Removal Grind Stump (Description at Bottom of Estimate)	$462.00 $91.00
	5	Japanese Maple (Acer palmatum) [1002574208] **12-18" Fair** 15.4 inch DBH. Tree is outgrown at space, has not been in maintained according to the original intent of the park. City will not approve removal	Focal Pruning	$550.00
	6	Japanese Snowbell (Styrax japonica) [1002574148] **6-12" Poor** Branches growing against girder, damaging trunk. 9.9 inch dbh. Has not been maintained according to the original intent of the park pruning. Pruning to conform to the original intent of the architects will result in noncompliant pruning practices that will most likely result in disfigurement, decline, and eventual death.	Removal Grind Stump (Description at Bottom of Estimate)	$399.00 $91.00
	7	Access () [1002575754] **0-3" Fair** Dump truck, commander access. Needs 5-7 paid spaces.	Access Notes	$0.00
			Subtotal:	$3,142.00
			Taxes:	$400.06

Project Management Services

Description	Quantity	Amount	Subtotal
Environmental Waste Fees (Waived if property chooses to keep onsite)*	1.00	200.00	$200.00
Arborist report and maintenance plan	1.00	450.00	$450.00
		Subtotal:	**$650.00**
	Taxes:	**10.550%**	**$400.06**

Total: $4,192.06

Approval Signature

Signature _____ Date _____

Name _____

Definition of Treatments:

- **Removal** - Complete removal of tree as close to ground level as is reasonable and safe, using safety practices as outlined in ANSI Z133.1 safety standard.

- **Grind Stump (Description at Bottom of Estimate)** - IMPORTANT: 811 will be notified after stumps have been properly marked with white paint and/or flags for mark and locate of subsurface facilities. No stumps shall be ground until all utilities have provided positive responses and/or marked their facilities. The ability and cost to grind stumps may be subject to change pending the results of the location of subsurface facilities. Conditions are to be assessed and determined by the grinding technician upon arrival. 811 Locators are not able to detect irrigation lines; A Plus Tree, Inc. is not held responsible for broken irrigation lines or unseen sprinkler heads. Standard Grind Stump includes 6" to 8" below ground grade and back fill of hole with resulting mulch and debris to a level grade.

- **Focal Pruning** - Focal Pruning – The selective pruning of a particularly significant tree based on its location and visibility from aesthetically appealing or prominent viewpoints. Additional time and attention are devoted to enhancing the visual structure of the tree. This process includes the removal of all deadwood, reduction of excessively extended limbs, and careful thinning of the crown to draw the viewer's eye to the tree's natural form and defining features.

- **Access Notes** - Notes for crew and client regarding jobsite access.

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A 3% processing fee will be assessed when paying by credit card
All pruning and tree care performed is according to the American National Standards Institute (ANSI) A-300 standards and conducted in accordance with the ANSI Z133 Safety Standards.

Download to print "No Parking Sign"

Download "Notice to Residents" Fillable Form

Notes
Assessment and Estimate Prepared By
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ISA Board Certified Master Arborist® (WE-11534BF)
ISA Certified Urban Forest Professional
ISA Tree Risk Assessment Qualified

The scope of work for this estimate is the below services:

1. Tree and stump removal of six (6) trees that are intended for removal in the client-provided demolition plan. All parts of the removed trees except the stump shall be completely removed, chipped, and disposed of offsite.

2. An arborist report that describes the health of the trees and the infeasibility of maintaining them in a state consistent with the original intent of the park's architects, necessitating their removal.

3. A maintenance plan for the trees that will involve a mixture of pruning and Tree Heath Care to maintain them in a size and shape that conforms to original intent while preserving their health and longevity.

For the removals, 5-7 paid parking spaces will need to be blocked off on the southern or northeastern sides of the property. We will need to establish temporary tow away zones to ensure these spaces will be clear of vehicles: The price for establishing these tow away zones have been included in the itemized services section of the estimate.

UNLESS OTHERWISE NOTED, ALL TREE ASSESSMENTS ARE BASED ON LEVEL 1 VISUAL INSPECTION FROM THE GROUND UP. Please see www.aplustree.com/terms for more fine print on our Terms & Conditions.