

South Campus Greenway

DRAFT Design Principles

Background: In response to concern from the UBC community that the greenway improvements adjacent to the UBC farm would undermine the ecological value of the existing landscape, an environmental report was commissioned. The report was shared with participants in a workshop to develop design principles for a greenway design. The following considerations were introduced to help guide the workshop:

1. **Policy context, User groups and Adjacencies**
2. **Transportation and Connectivity**
3. **Place Making and Amenities**
4. **Safety, Accessibility and Wellness**
5. **Ecology and Environmental Sustainability**
6. **Construction and Maintenance**

C+CP Staff summarized the thoughts and ideas which, along with input from the Pacific Spirit Park Society and the UBC Farm Land Use Committee, informed the following Design Principles:

1. **Canopy cover and understory generally be maintained in a natural state, or rehabilitated with appropriate native planting. No invasive species should be included.**

The proposed greenway treatment allows for the retention of the native canopy and understory plantings in a natural state and proposes new plantings of native canopy and understory vegetation to reinstate a naturalized greenway corridor. Trees that are removed that are hazards or due to trail alignment will be replaced. The plans identify a zone adjacent to the trail where the existing and new plantings will be maintained to allow for pedestrian and cyclist visibility. Existing non native species will be removed. Refer to plans;

Plans L1.0 – 1.2 for trail alignment
Plans L2.0 – 2.2 for tree removals
Plans L4.0 – 4.3 for schematic planting design
Arborist report

2. **Any pathways should be oriented to the east side of the corridor to maximize preservation of natural greenspace adjacent to the farm edge**

The pathway has been located to seek the least disruptive routing through the existing treed and understory areas and where appropriate has been shifted towards the east. The previous trail alignment is indicated on the plan where the trail routing has been changed. Refer to;

Plans L1.0 – 1.2 for trail alignment

- 3. Pathways should be universally accessible and provide for the community to appreciate the value to the natural space. However, they do not need to support high speed travel such as cycling or running. A greenway not a transportation corridor**

The pathway design will include for a universally accessible surfacing treatment and graded to maintain slopes of less than 5%. To optimize tree retention, the pathway meanders through the forest and the width of the finished trail will vary to some degree depending on the site constraints. Refer to;

Plans L5.0 – 6.2 for proposed trail details and sections.

- 4. Safety and accessibility must be maintained for adjacent residential units (townhouses). Lighting should be limited to achieve safety and visibility while not disturbing the ecological value of the greenway.**

The proposed trail has been aligned to optimize connectivity between the adjacent residential units. As these residential units are placed along the east edge of the Greenway corridor, the trail alignment is shifted to the east optimizing the amount of area left undisturbed between the trail and the west boundary of the Greenway. The proximity of the trail to overlook from the adjacent residential units also provides an ‘eyes on the street’ approach to the design to enhance the sense of security.

The trail is proposed to be illuminated with a post top luminaire. Additional ambient line for the trail will be from the residential unit entries that connect to the trail. Refer to;

L1.0 – L1.2 Layout plans

L50.0 – L6.0 Proposed trail/lighting details and sections.

- 5. Surface treatments should minimize impact on the root systems**

The proposed trail will be designed in collaboration with the Project arborist. Refer to;

L5.0 – 5.1 for trail details

Arborist report

- 6. Educational opportunities should be incorporated.**

A signage system is proposed to provide for both directional and educational opportunities. Refer to;

L5.0 for proposed signage elements

- 7. The greenway should be considered as a portion of system of natural areas which act as a wildlife corridor connecting to Pacific Spirit Park.**

The greenway corridor is an existing natural corridor of native canopy trees and understory that extends from 16th Avenue south along the south edge of Nobel park, across Wesbrook extending to Pacific Spirit Park. Enhancement to the proposed greenway will include rehabilitation of the existing canopy and understory, removal of invasive species and retention of existing wildlife trees. Refer to;

L0.1 for larger context of the proposed trail in the Wesbrook neighbourhood.

- 8. Any pathways should be routed to avoid existing valuable native vegetation, and utilize disturbed areas such as former access roads.**

Where opportunities allow the trail has been routed to utilize previously disturbed areas for trail alignment. Refer to;

L3.1 Demolition plan for location of trail on existing road base

- 9. Mature tree root systems, forest soils, understory and mid-canopy vegetation should be retained whenever possible.**

Disturbance to the existing naturalized area of the Greenway corridor will be limited to the trail corridor. Existing root systems, soils and vegetation will be retained and augmented with new native plantings. Refer to;

Arborist report

LL5.0 – 5.1 for proposed trail details

- 10. The greenway should seek to provide a visual and acoustic screen between the residential properties and the farm.**

The greenway corridor has been aligned to optimize tree removals and where possible has been aligned along the east edge of the corridor to optimize the visual and acoustical separation from the UBC farm.

L1.0 – 1.2 Layout of trail

- 11. Trail meanders should be placed in well-draining areas to avoid the need for unnecessary ditching and resulting root damage.**

Drainage has been considered in the design of the greenway trail to allow surface water to drain under the trail at low points along the trail. Refer to

L1.0 – 1.2 Layout of trail and location of drain pipes

- 12. Large specimen native trees and understory should be planted to replace any mature trees removed during construction.**

Replacement species plantings are proposed along the Greenway trail to augment the existing native vegetation. Replacement plantings will occur throughout the greenway to

replace trees and understory lost as a result of the trail alignment and removal of hazard trees and in areas that have been previously disrupted. Refer to;

L1.0 – 1.2 trail layout

L4.0 – 4.3 Schematic planting and rehabilitation plan.

DRAWING LEGEND

Cover SheetL 0.0
 Connectivity PlanL 0.1
 Context PlanL 0.2
 Layout Plan 1L 1.0
 Layout Plan 2L 1.1
 Layout Plan 3L 1.2
 Tree Removal Plan 1L 2.0
 Tree Removal Plan 2L 2.1
 Tree Removal Plan 3L 2.2
 Demolition PlanL 3.0
 Demolition PlanL 3.1
 Schematic Planting Plan 1L 4.0
 Schematic Planting Plan 2L 4.1
 Schematic Planting Plan 3L 4.2
 Rehabilitation PlantingL 4.3
 Landscape Details 1L 5.0
 Landscape Details 2L 5.1
 Illustrative Sections 1L 6.1
 Illustrative Sections 2L 6.2



South Campus Greenway
 To Be Completed

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Client:
UBC Properties Trust

Project Title:
UBC South Campus GREENWAY

Drawing Title:
Cover Sheet

Project North: Drawn By: KS
 Checked By: MP
 Scale: NTS Job No.: 12-075

Sheet No.:
L 0.0



- Existing Greenway Corridors
- Existing Pedestrian Connections
- Proposed Greenway

Existing mature forest

Existing mature forest

Detention Pond

Proposed Greenway Trail to be Completed

Continuous Wildlife Corridor

Continuous Wildlife Corridor

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Client:
UBC Properties Trust

Project Title:
UBC South Campus GREENWAY

Drawing Title:
Wesbrook Village Pacific Spirit Park Connectivity Plan

Project North: Drawn By: KS
 Checked By: MP

Scale: NTS Job No.: 12-075

Sheet No.:



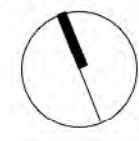
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Client:
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Project Title:
UBC South Campus GREENWAY

Drawing Title:
South Campus Greenway Context Plan

Project North:  Drawn By: KS
 Checked By: MP
 Scale: 1:750 Job No.: 12-075
 Sheet No.:

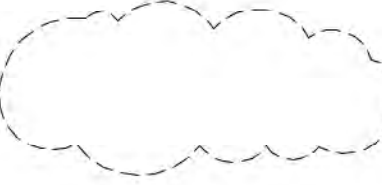



L 0.2



DETAIL KEYS

- | | | | |
|-------------|-------------------------------------|-------------|---|
| 1A
L 5.0 | Asphalt Paving | 6
L 5.0 | Educational Signage/Trail Markers |
| 1B
L 5.0 | Asphalt Paving with perforated pipe | 7
L 5.1 | Path over Rootzone of Existing Trees by CoV |
| 1C
L 5.0 | Asphalt Paving with Boulders | 8
L 5.1 | Community Garden Granite Fines |
| 2
L 5.0 | Entry Signage Wall | 9
L 5.1 | Community Garden Fence |
| 3
L 5.0 | Light Post | 10
L 5.1 | Garden Beds |
| 4
L 5.0 | UBC Bike Rack | 11
L 5.1 | Compost Bins |
| 5
L 5.0 | Garbage Bin | | |

PLAN LEGEND

-  Area to be replanted with Native Plant Materials
-  Area to be maintained to limit understory height and raise canopy height to maintain pedestrian visibility
-  Line of old Path Layout
-  Electrical wire routing path

MATCH LINE L 1.0

MATCH LINE L 1.1

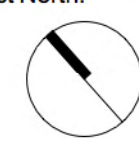
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Client: **UBC Properties Trust**

Project Title: **UBC South Campus GREENWAY**

Drawing Title: **Landscape Layout Plan**

Project North:  Drawn By: KS
Checked By: MP
Scale: Job No.: 12-075
Sheet No.:

L 1.0

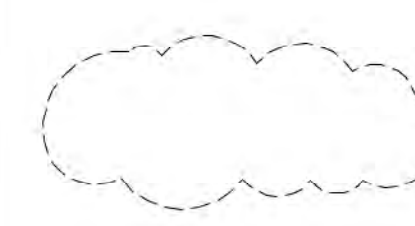


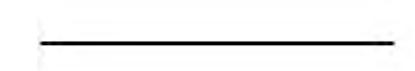
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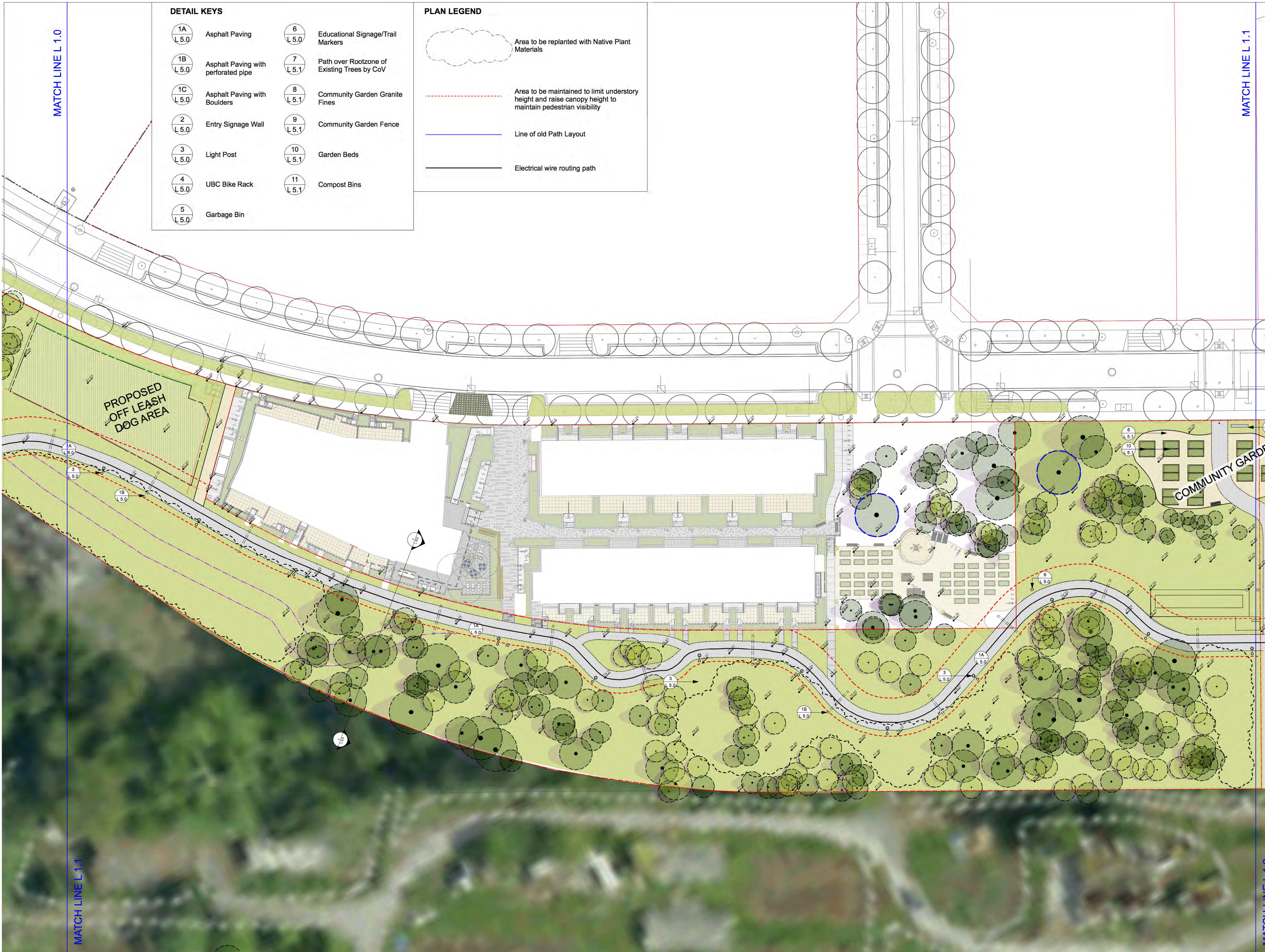
MATCH LINE L 1.1

DETAIL KEYS

- 1A L 5.0 Asphalt Paving
- 1B L 5.0 Asphalt Paving with perforated pipe
- 1C L 5.0 Asphalt Paving with Boulders
- 2 L 5.0 Entry Signage Wall
- 3 L 5.0 Light Post
- 4 L 5.0 UBC Bike Rack
- 5 L 5.0 Garbage Bin
- 6 L 5.0 Educational Signage/Trail Markers
- 7 L 5.1 Path over Rootzone of Existing Trees by CoV
- 8 L 5.1 Community Garden Granite Fines
- 9 L 5.1 Community Garden Fence
- 10 L 5.1 Garden Beds
- 11 L 5.1 Compost Bins

PLAN LEGEND

-  Area to be replanted with Native Plant Materials
-  Area to be maintained to limit understory height and raise canopy height to maintain pedestrian visibility
-  Line of old Path Layout
-  Electrical wire routing path



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Client:
UBC Properties Trust



Project Title:
UBC South Campus GREENWAY

Drawing Title:
Landscape Layout Plan

Project North:  Drawn By: KS
 Checked By: MP
 Scale: Job No.: 12-075

Sheet No.: **L 1.1**

MATCH LINE L 1.1

MATCH LINE L 1.2

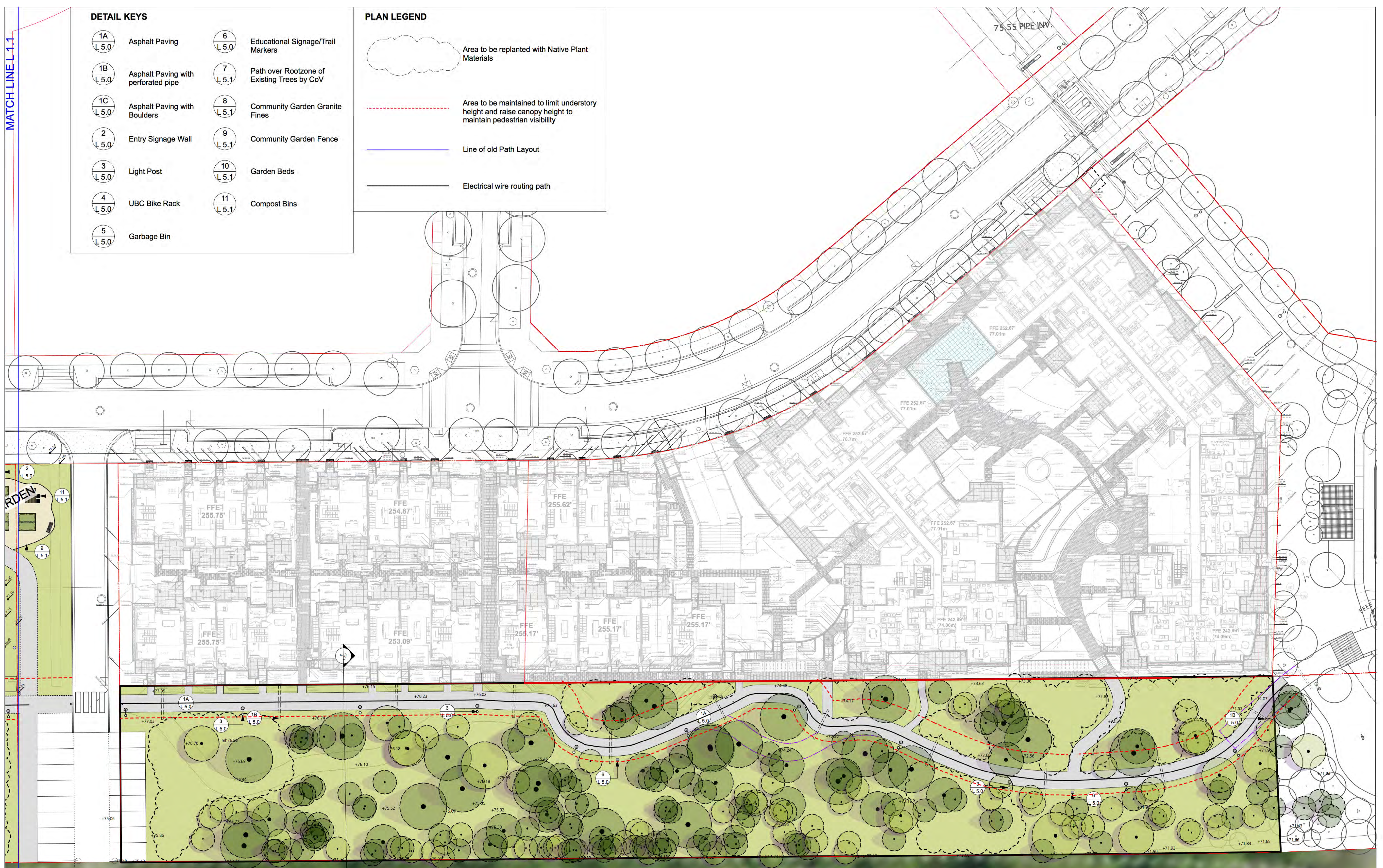
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DETAIL KEYS

1A L 5.0	Asphalt Paving	6 L 5.0	Educational Signage/Trail Markers
1B L 5.0	Asphalt Paving with perforated pipe	7 L 5.1	Path over Rootzone of Existing Trees by CoV
1C L 5.0	Asphalt Paving with Boulders	8 L 5.1	Community Garden Granite Fines
2 L 5.0	Entry Signage Wall	9 L 5.1	Community Garden Fence
3 L 5.0	Light Post	10 L 5.1	Garden Beds
4 L 5.0	UBC Bike Rack	11 L 5.1	Compost Bins
5 L 5.0	Garbage Bin		

PLAN LEGEND

- Area to be replanted with Native Plant Materials
- Area to be maintained to limit understory height and raise canopy height to maintain pedestrian visibility
- Line of old Path Layout
- Electrical wire routing path



MATCH LINE L 1.2

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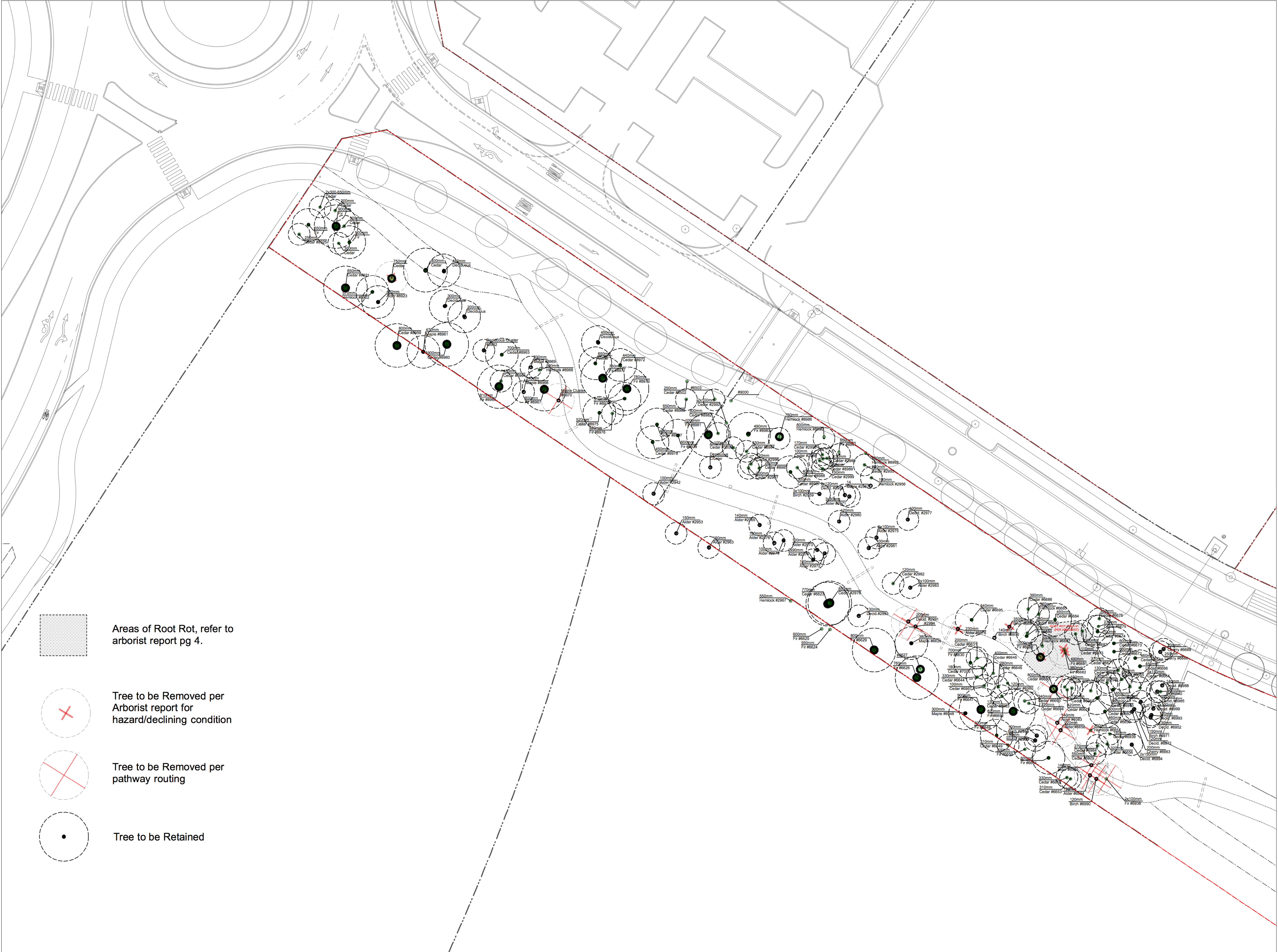
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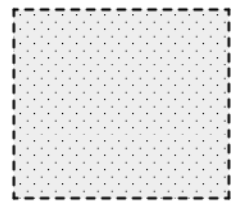
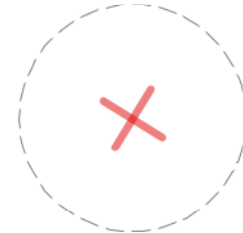
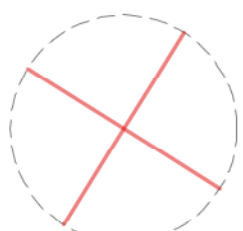
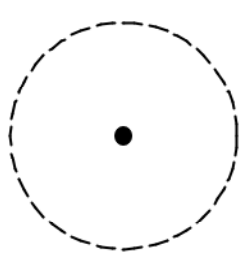
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Project Title:
UBC South Campus GREENWAY

Drawing Title:
Landscape Layout Plan

Project North: Drawn By: KS
Checked By: MP
Scale: Job No.: 12-075
Sheet No.:



-  Areas of Root Rot, refer to arborist report pg 4.
-  Tree to be Removed per Arborist report for hazard/declining condition
-  Tree to be Removed per pathway routing
-  Tree to be Retained

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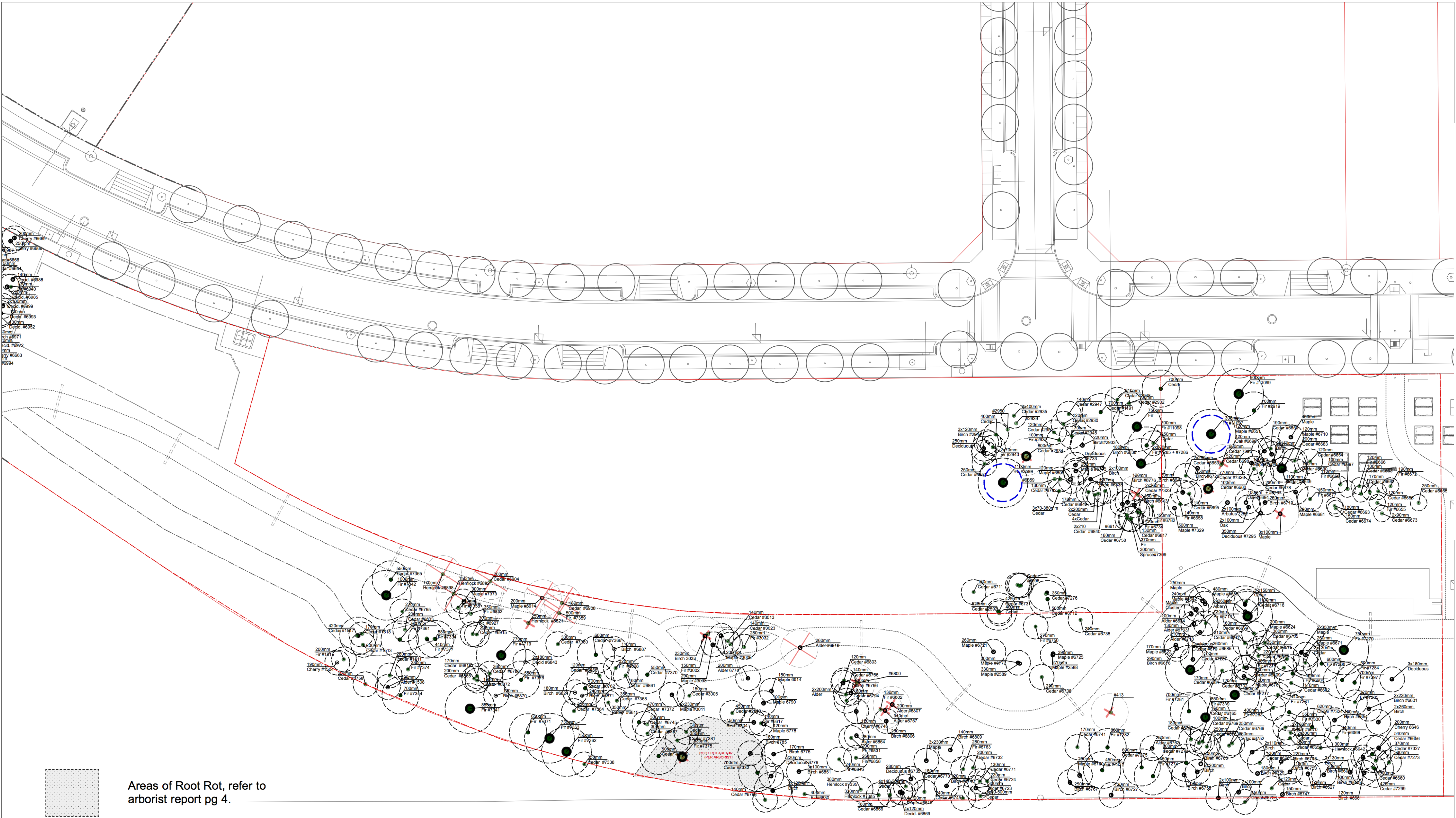
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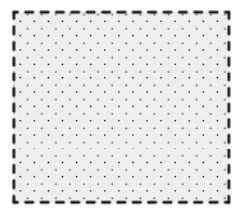

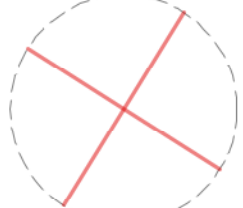
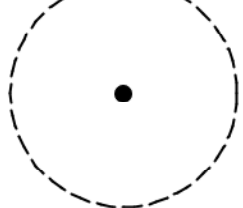
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 Checked By: MP

Scale: 1:300 Job No.: 12-075

Sheet No.:

L 2.0



-  Areas of Root Rot, refer to arborist report pg 4.
-  Tree to be Removed per Arborist report for hazard/declining condition
-  Tree to be Removed per pathway routing
-  Tree to be Retained

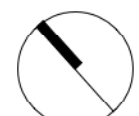
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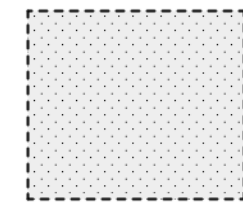
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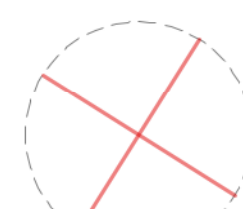
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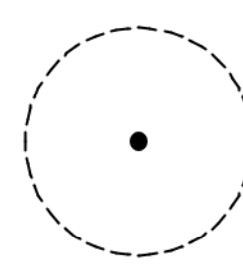
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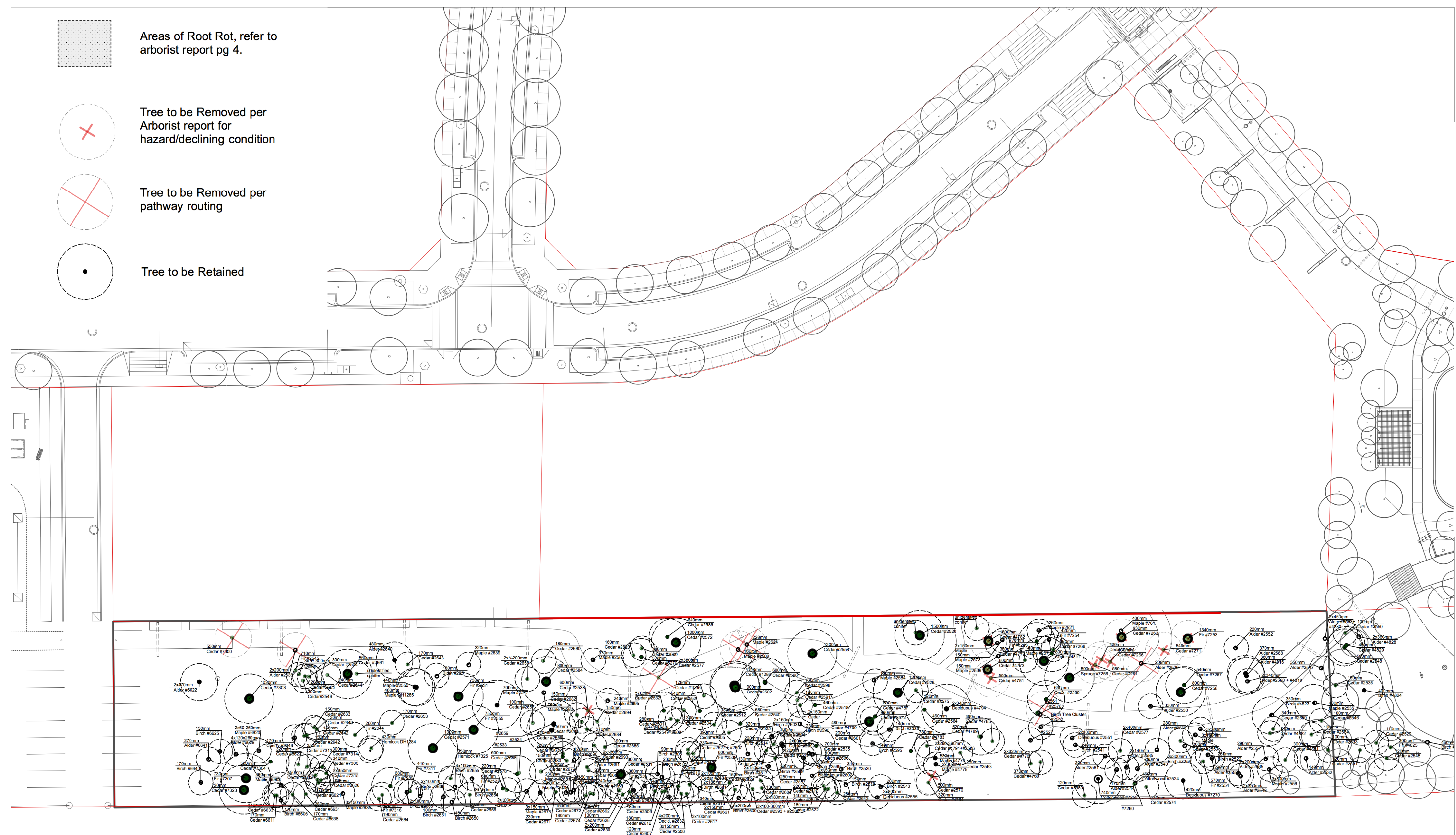
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 Checked By: MP
 Scale: 1:300 Job No.: 12-075
 Sheet No.:

 Areas of Root Rot, refer to arborist report pg 4.

 Tree to be Removed per Arborist report for hazard/declining condition

 Tree to be Removed per pathway routing

 Tree to be Retained



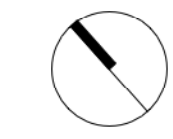
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Client:
UBC Properties Trust

Project Title:
UBC South Campus GREENWAY

Drawing Title:
Tree Removal Plan

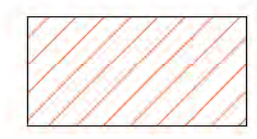
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EXISTING CHAIN LINK FENCE
 TO BE REMOVED

 Hardscape to be removed

 Chain Link Fence to be removed


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Client:
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Project Title:
UBC South Campus GREENWAY

Drawing Title:
Demolition Plan

Project North:  Drawn By: KS
 Checked By: MP

Scale: 1:300 Job No.: 12-075

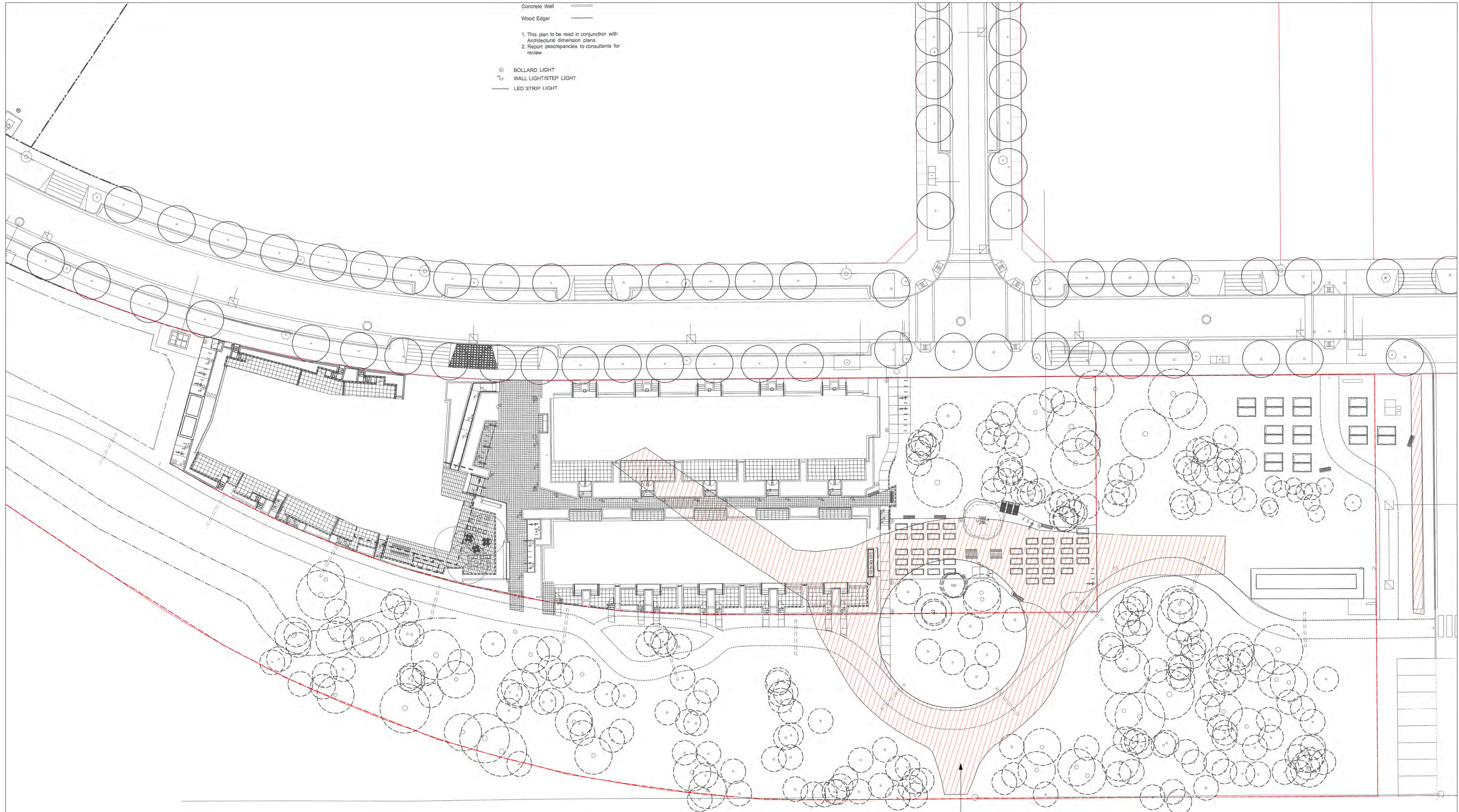
Sheet No.:

L 3.0

Concrete Wall
 Wood Edger

1. This plan to be read in conjunction with
 Architectural dimension plans.
 2. Report discrepancies to consultants for
 review.

○ BOLLARD LIGHT
 □ WALL LIGHT/STEP LIGHT
 — LED STRIP LIGHT



PATHWAY ROUTING TO TAKE ADVANTAGE OF
 EXISTING OLD ROAD STRUCTURE

Hardscape to be removed

Chain Link Fence to be removed

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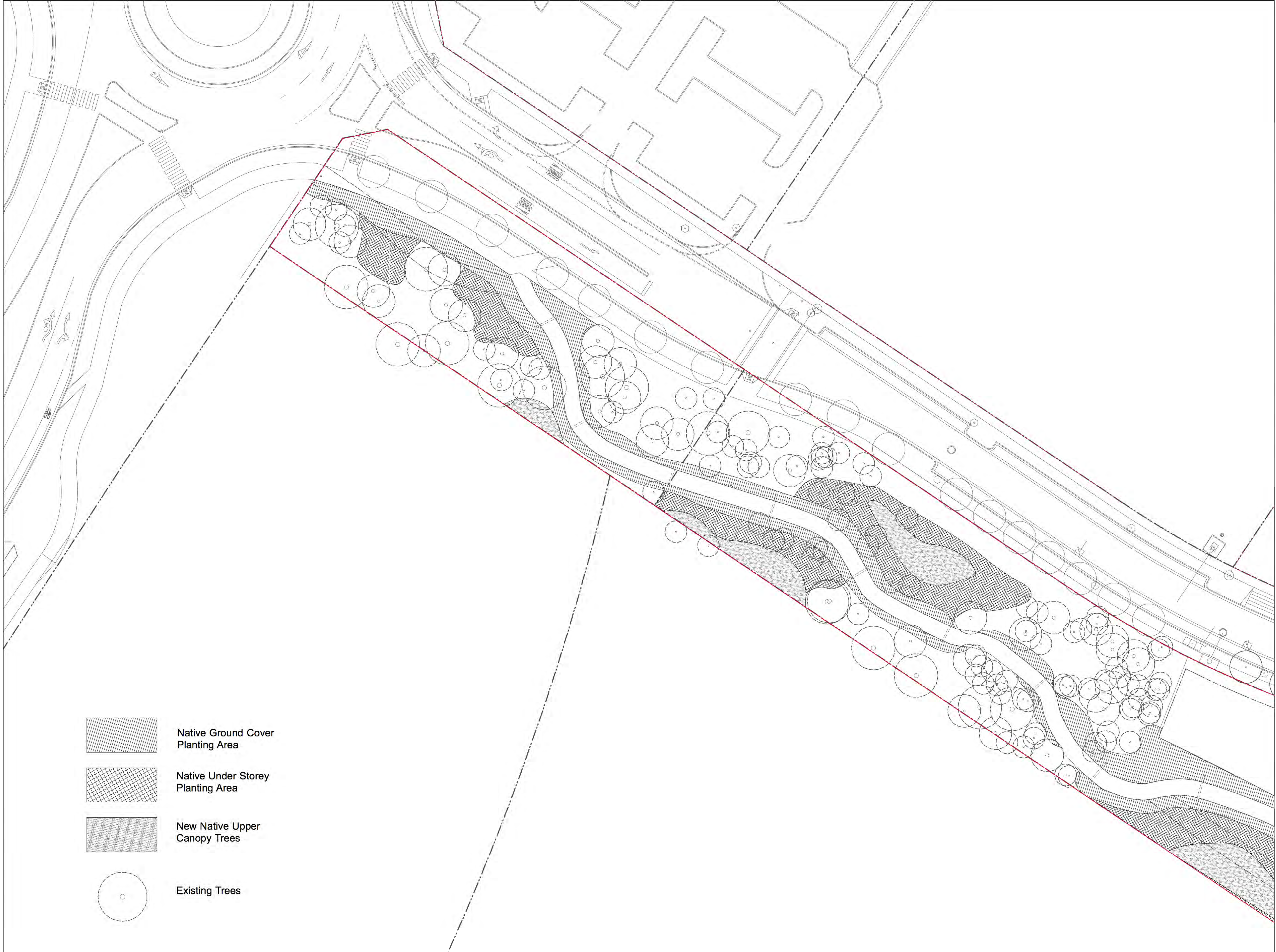
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UBC South Campus GREENWAY

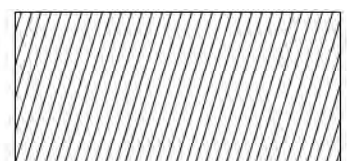
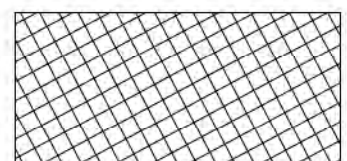
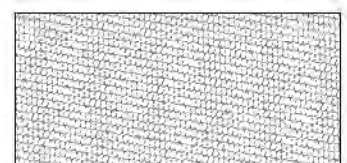

Drawing Title:
Demolition Plan

Project North: Drawn By: KS
 Checked By: MP

Scale: 1:300 Job No.: 12-075

Sheet No.:



-  Native Ground Cover Planting Area
-  Native Under Storey Planting Area
-  New Native Upper Canopy Trees
-  Existing Trees


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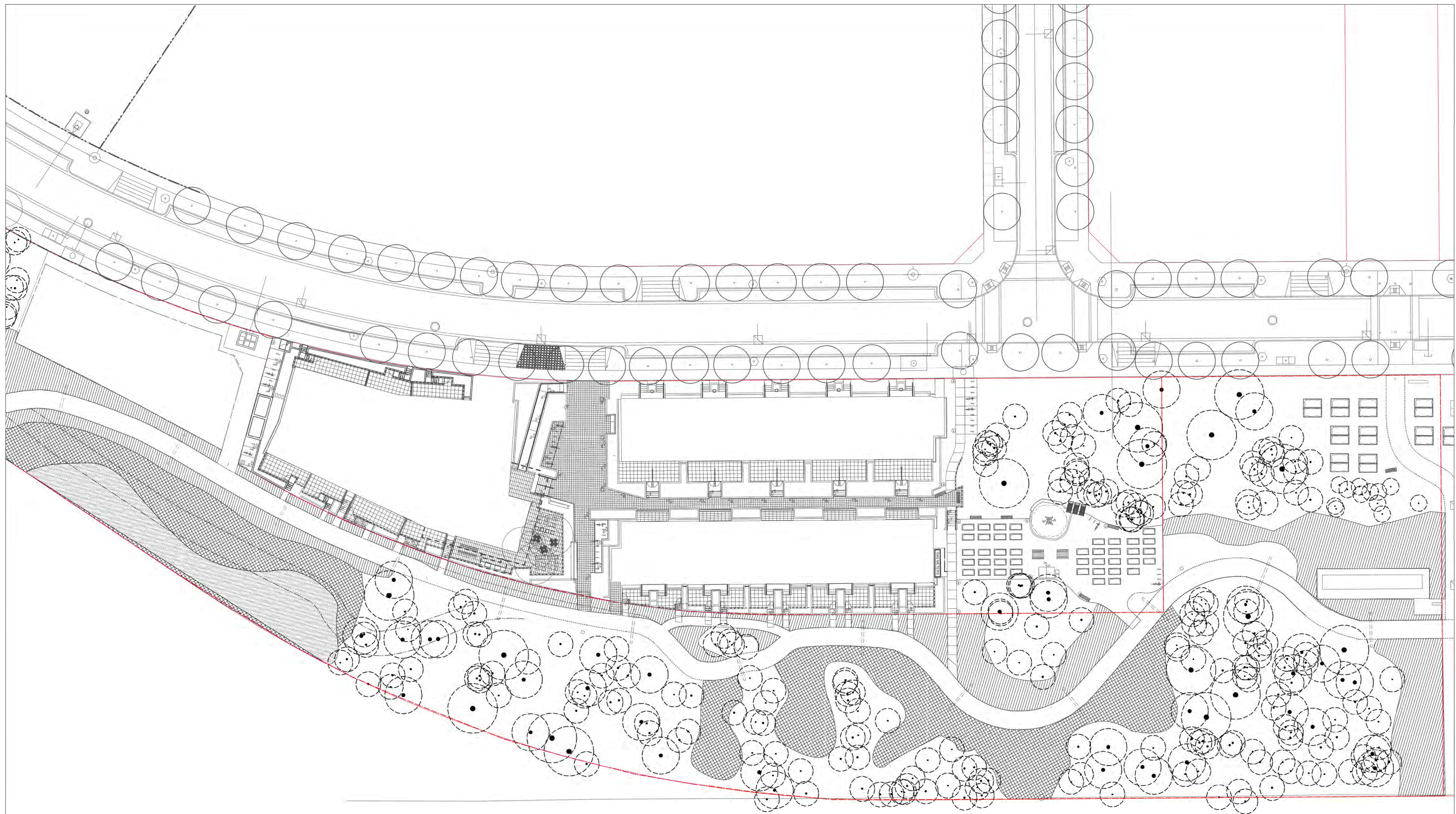
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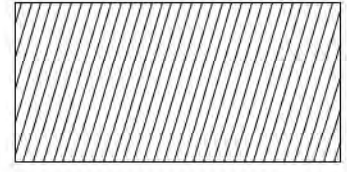
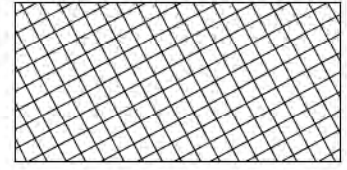
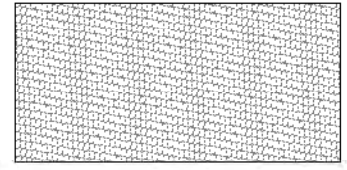
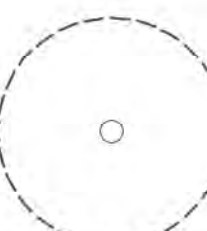
Project Title:
UBC South Campus GREENWAY

Drawing Title:
Schematic Planting Plan

Project North:  Drawn By: KS
 Checked By: MP
 Scale: 1:300 Job No.: 12-075
 Sheet No.:

L 4.0



-  Native Ground Cover Planting Area
-  Native Under Storey Planting Area
-  New Native Upper Canopy Trees
-  Existing Trees


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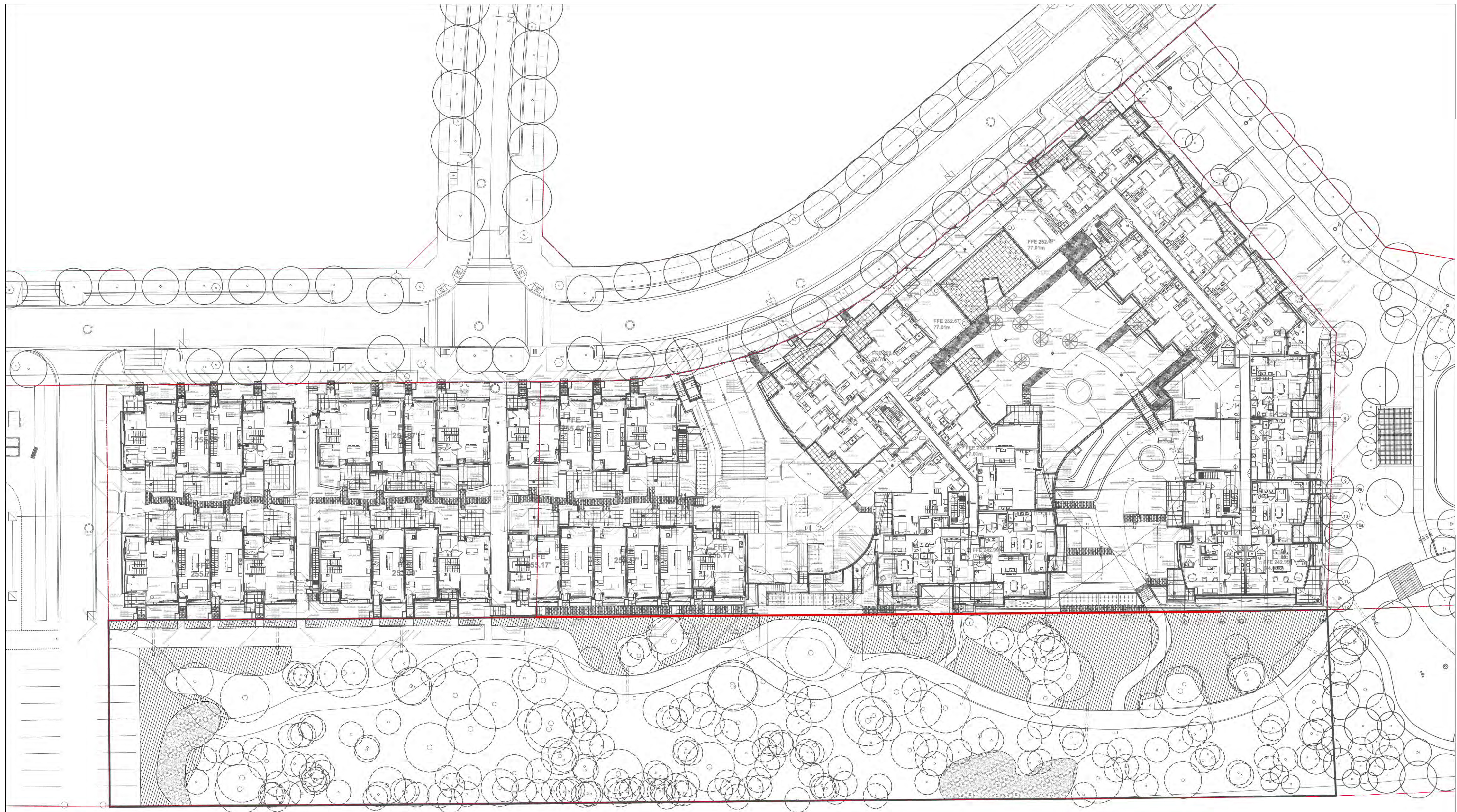
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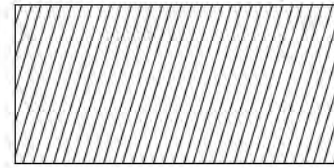
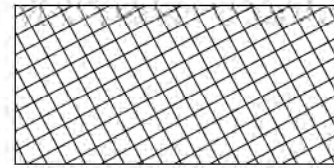
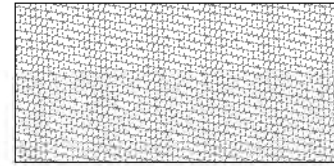
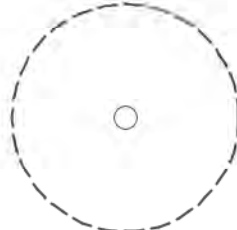
Client:
UBC Properties Trust

Project Title:
UBC South Campus GREENWAY

Drawing Title:
Schematic Planting Plan

Project North:  Drawn By: KS
 Checked By: MP
 Scale: 1:300 Job No.: 12-075
 Sheet No.:



-  Native Ground Cover Planting Area
-  Native Under Storey Planting Area
-  New Native Upper Canopy Trees
-  Existing Trees


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Client:
UBC Properties Trust

Project Title:
UBC South Campus GREENWAY

Drawing Title:
Schematic Planting Plan

Project North:  Drawn By: KS
 Checked By: MP
 Scale: 1:300 Job No.: 12-075
 Sheet No.:



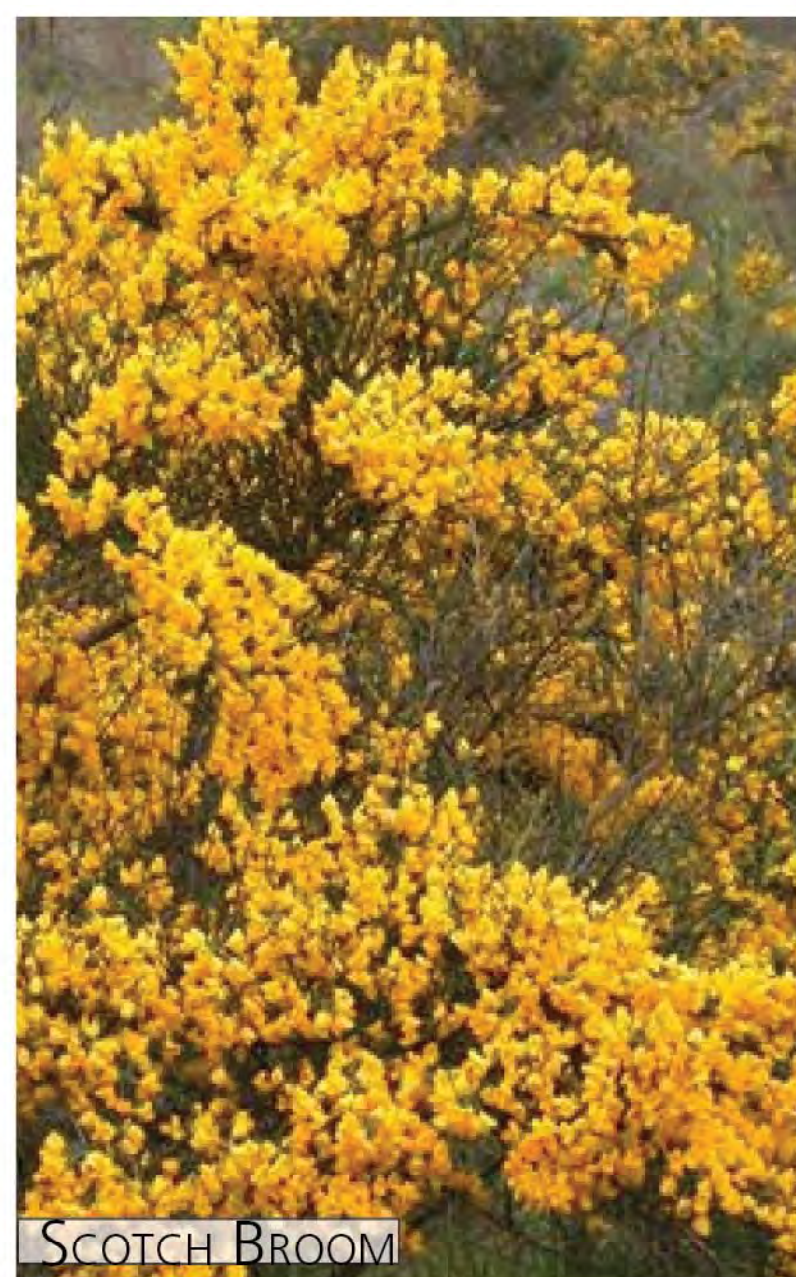
BLACKBERRY



HOLLY SPECIES



LAUREL SPECIES



SCOTCH BROOM

INVASIVE SPECIES TO BE REMOVED



FALSE LILY OF THE VALLEY



DWARF OREGON GRAPE



SALAL



DEER FERN



SWORD FERN

REHABILITATION PLANTING - GROUNDCOVER



DOGWOOD



FLOWERING CURRANT



EVERGREEN HUCKLEBERRY



OCEANSPRAY



OREGON GRAPE



GARRY OAK - LIMITED EDGE CONDITION



ARBUTUS MENZIESII - LIMITED EDGE CONDITION



SHORE PINE



VINE MAPLE



DOGWOOD

REHABILITATION PLANTING - UNDER STOREY

LOOK FOR OPPORTUNITIES TO PLANT LIMITED NUMBERS OF ARBUTUS, GARRY OAK AND SHORE PINE

PROPOSED TREE INTRODUCTIONS



BIG LEAF MAPLE



GRAND FIR - SHADE TOLERANT, REPLANT IN EDGE CONDITIONS AND IN UNDER STOREY CONDITIONS



DOUGLAS FIR - REPLANT IN EDGE CONDITIONS

REHABILITATION PLANTING - UPPER STOREY

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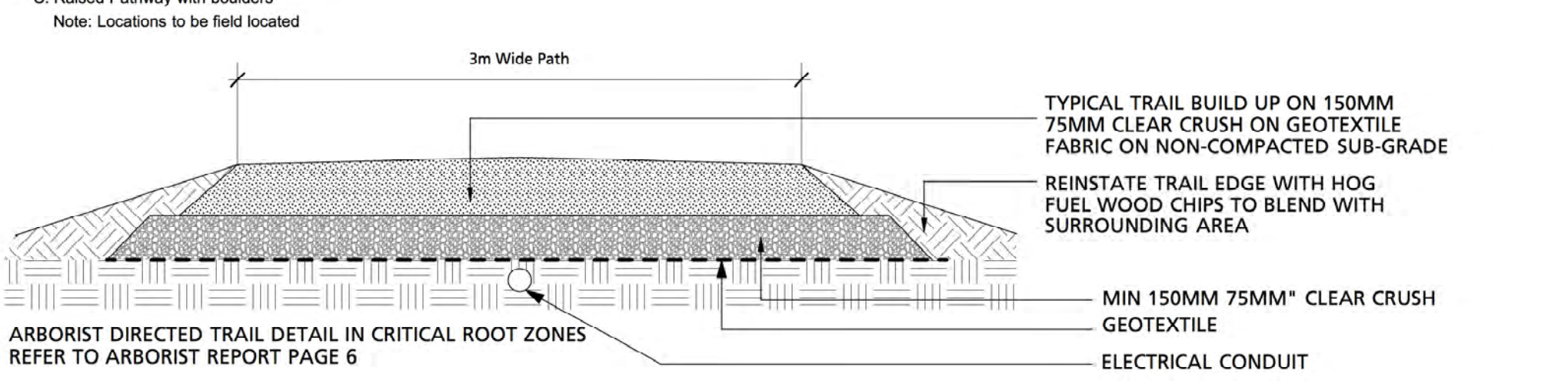
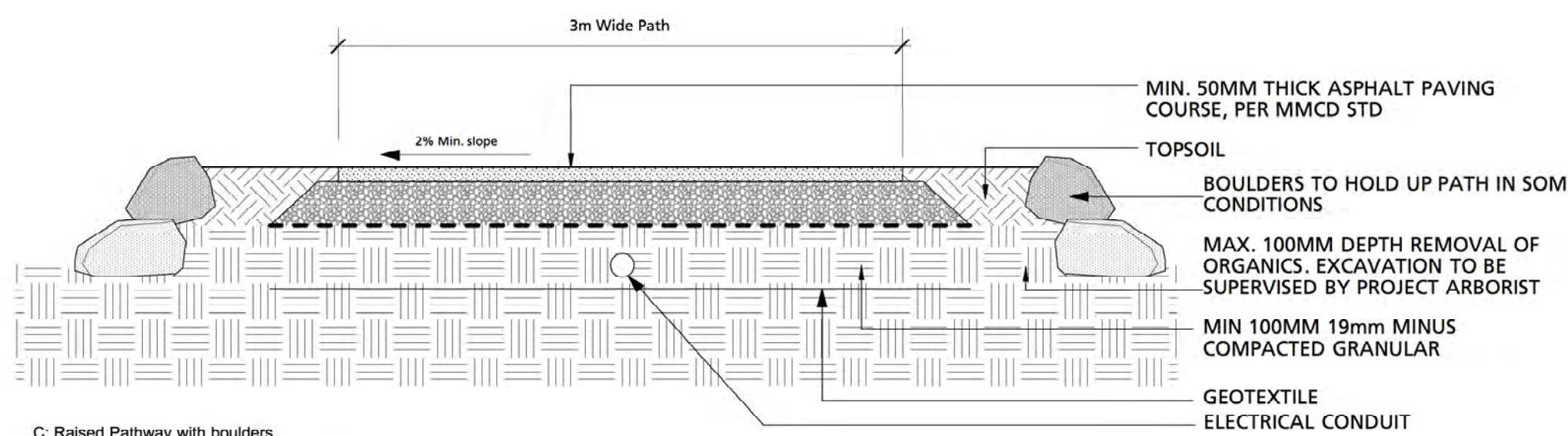
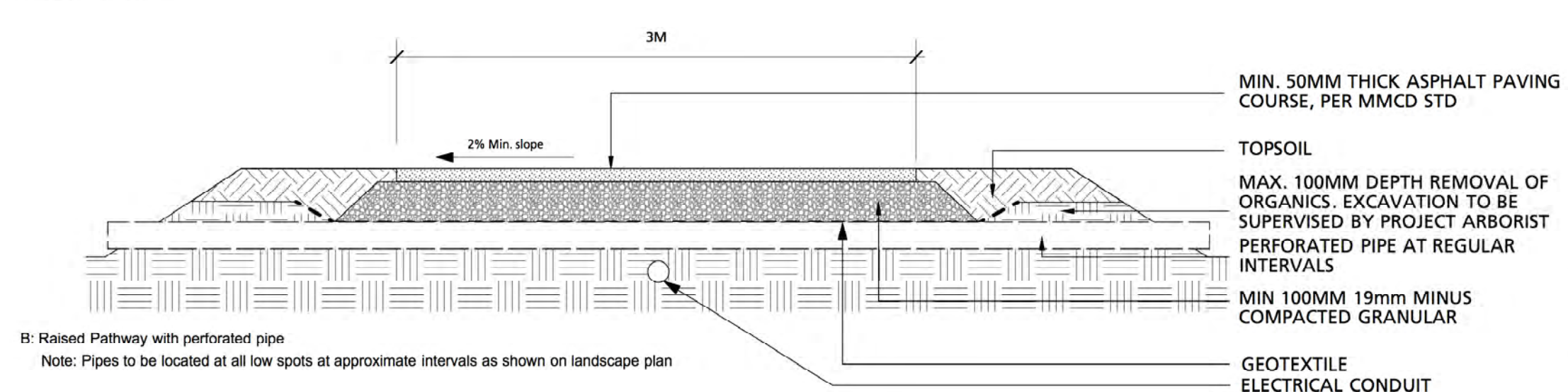
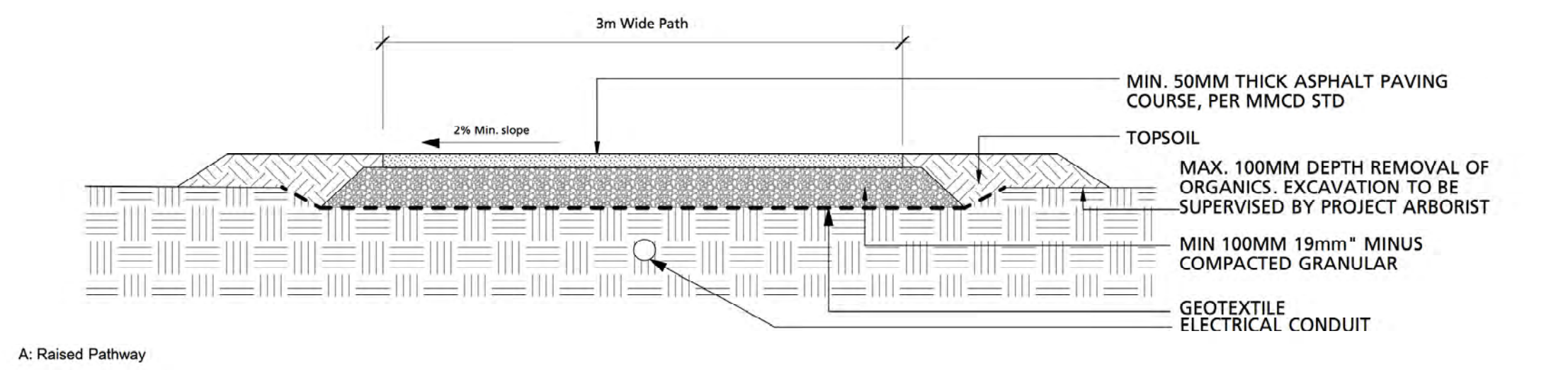
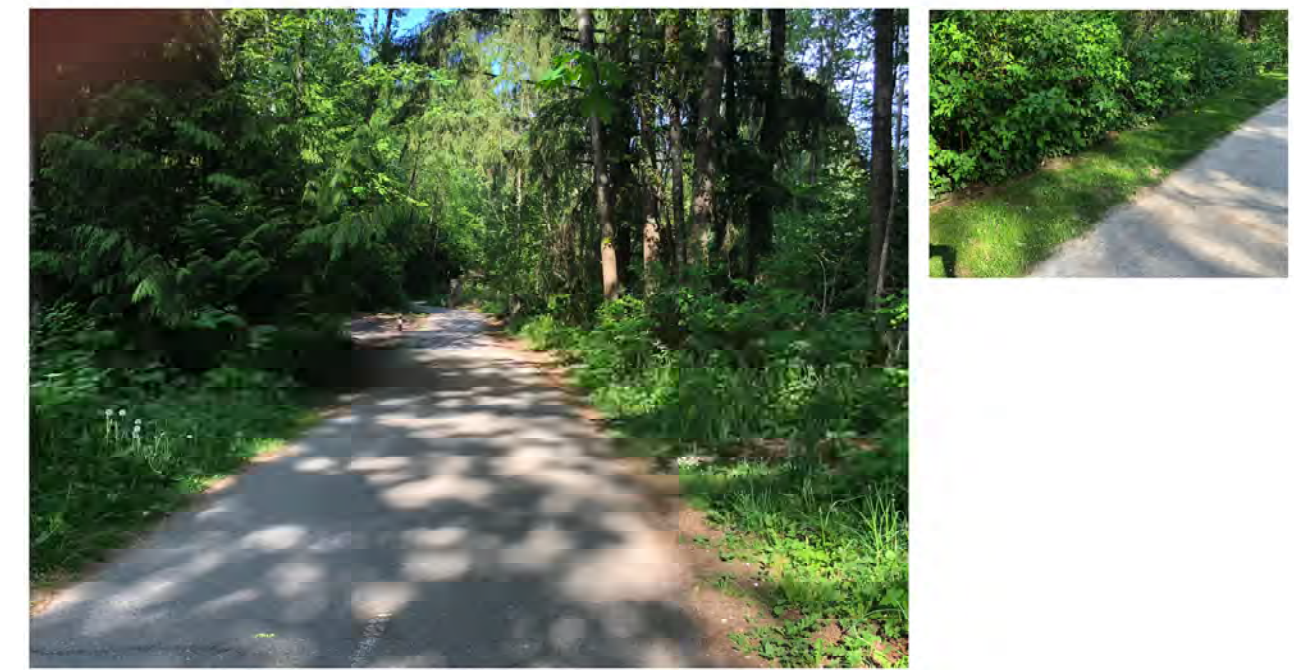
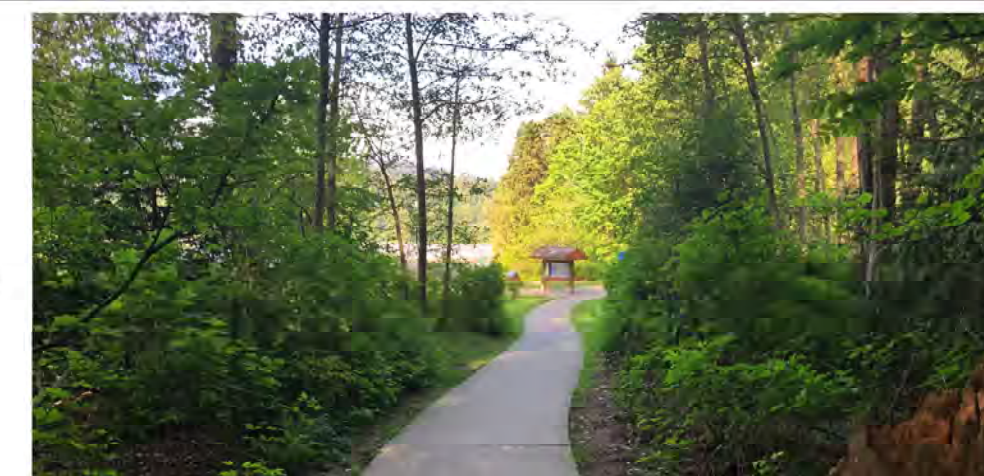
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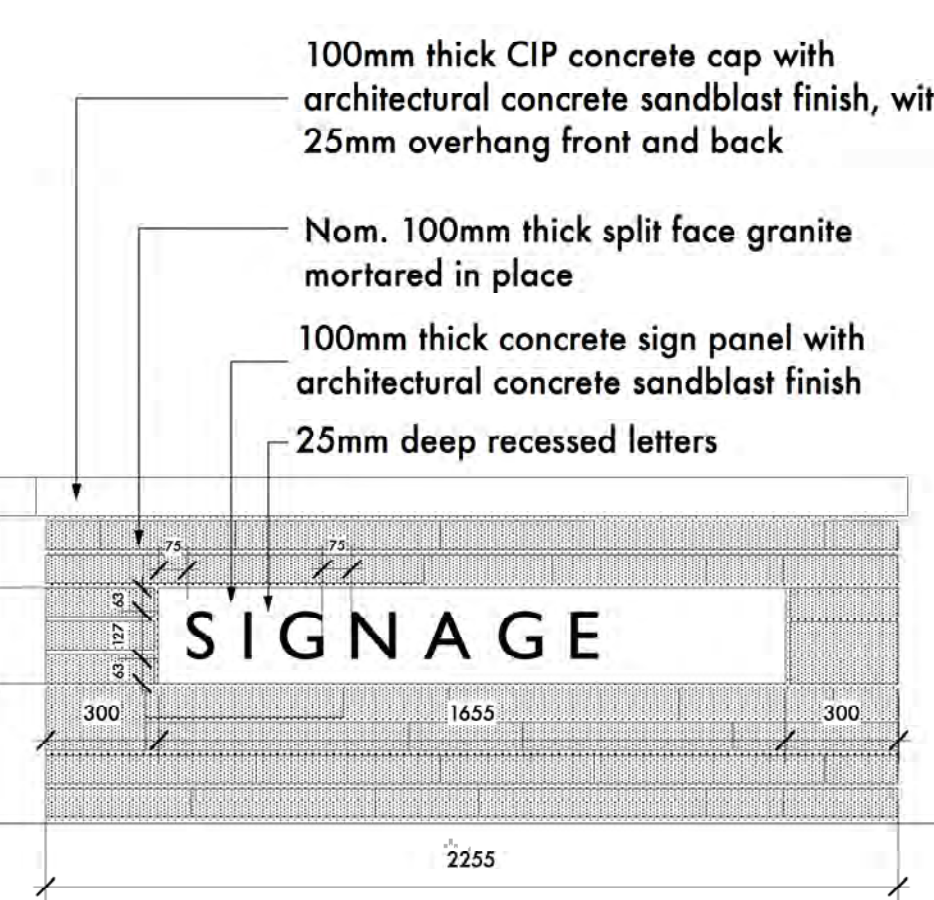
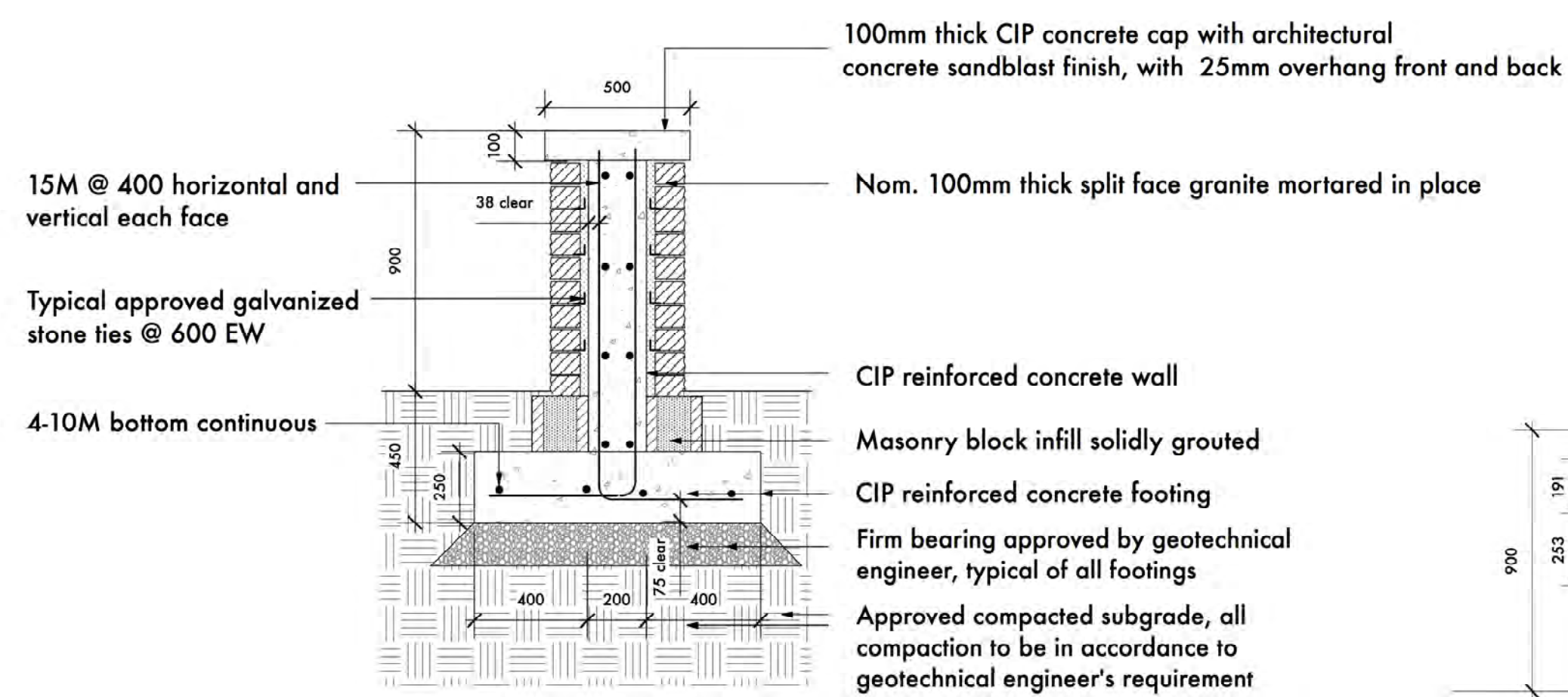
Project Title: UBC South Campus GREENWAY

Drawing Title: Proposed Rehabilitation Planting

Project North: Drawn By: KS Checked By: MP Scale: NTS Job No.: 12-075 Sheet No.:



1 Asphalt Paving
1:20



Sign Panel: Nom. 100mm thick concrete sandblast finish w/ 25mm deep recessed letters.

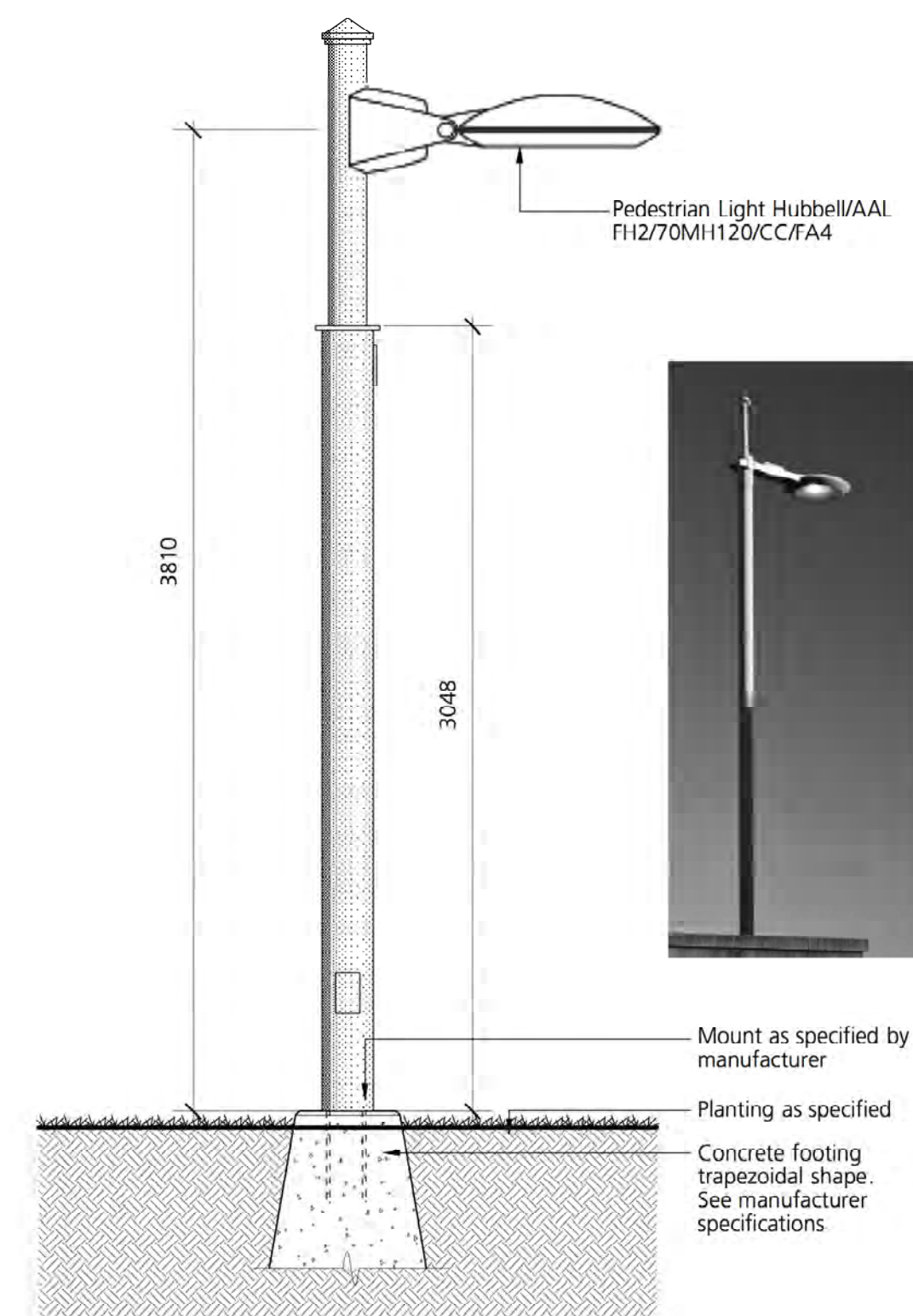
Letters to have a light sandblast finish highlighted with UBC Std grey (RAL 7043).

Typeface to be Gill Sans Regular. Panel to be flush with wall.

Contractor to provide shop drawings for lettering, joint locations, anchors and attachment to wall for approval by Landscape Architect

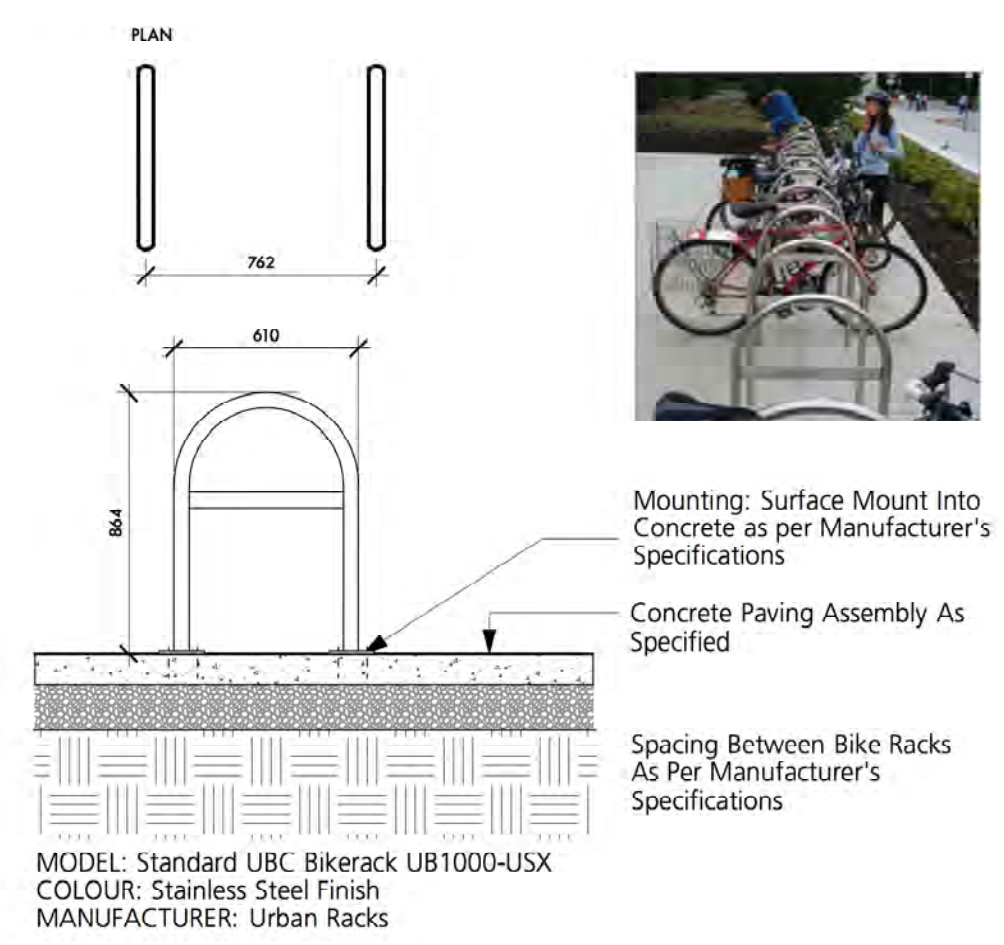
Granite: Hardy Island Salt and Pepper
Available from Bedrock Granite Sales (604)941-7783
Dimensions: 75mm high x 100mm deep x 200-900mm wide, dimension cut on 4 sides typical with random 165mm high pieces as shown
Finish: Split face

Contractor to provide a mock-up for approval by Landscape Architect prior to proceeding with stone masonry work. Mock-up to be a minimum 1.5m wide x 1.0m ht.

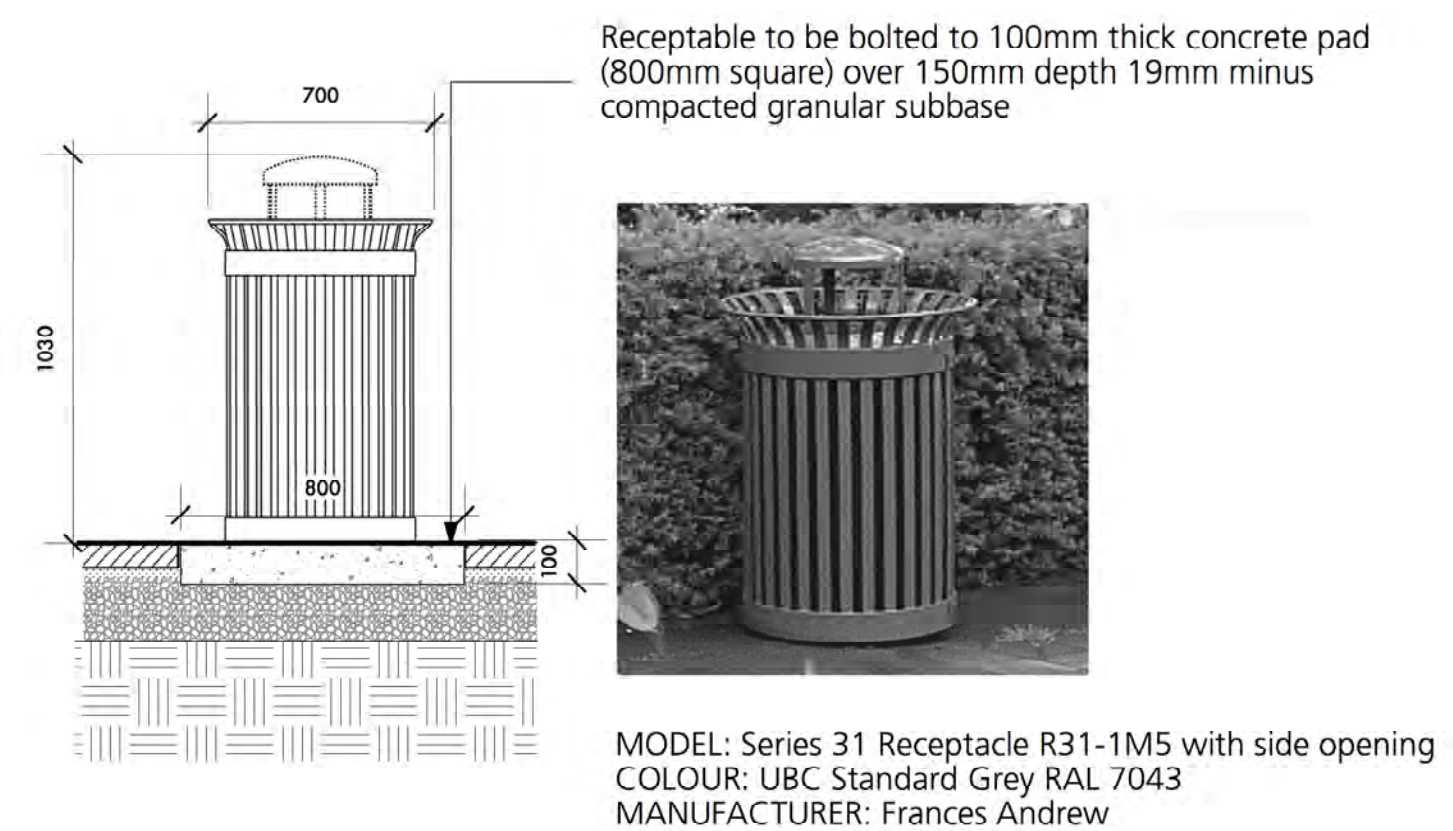


3 Light Post
NTS

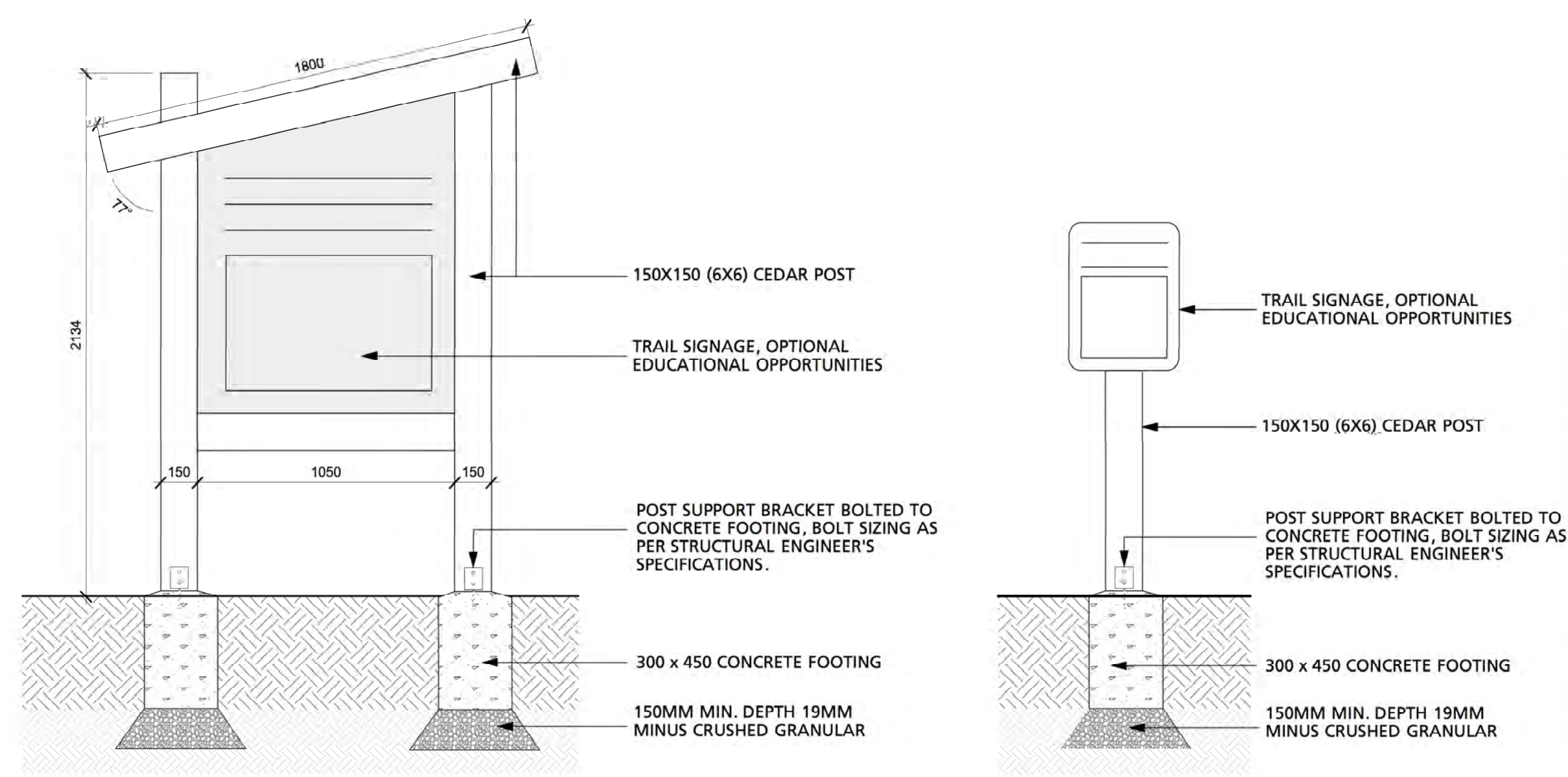
2 Entry Signage Wall
1:20



4 UBC Bike Racks



5 Garbage Bin



6 Educational Signage/Trail Marker
1:20

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Client: **UBC Properties Trust**



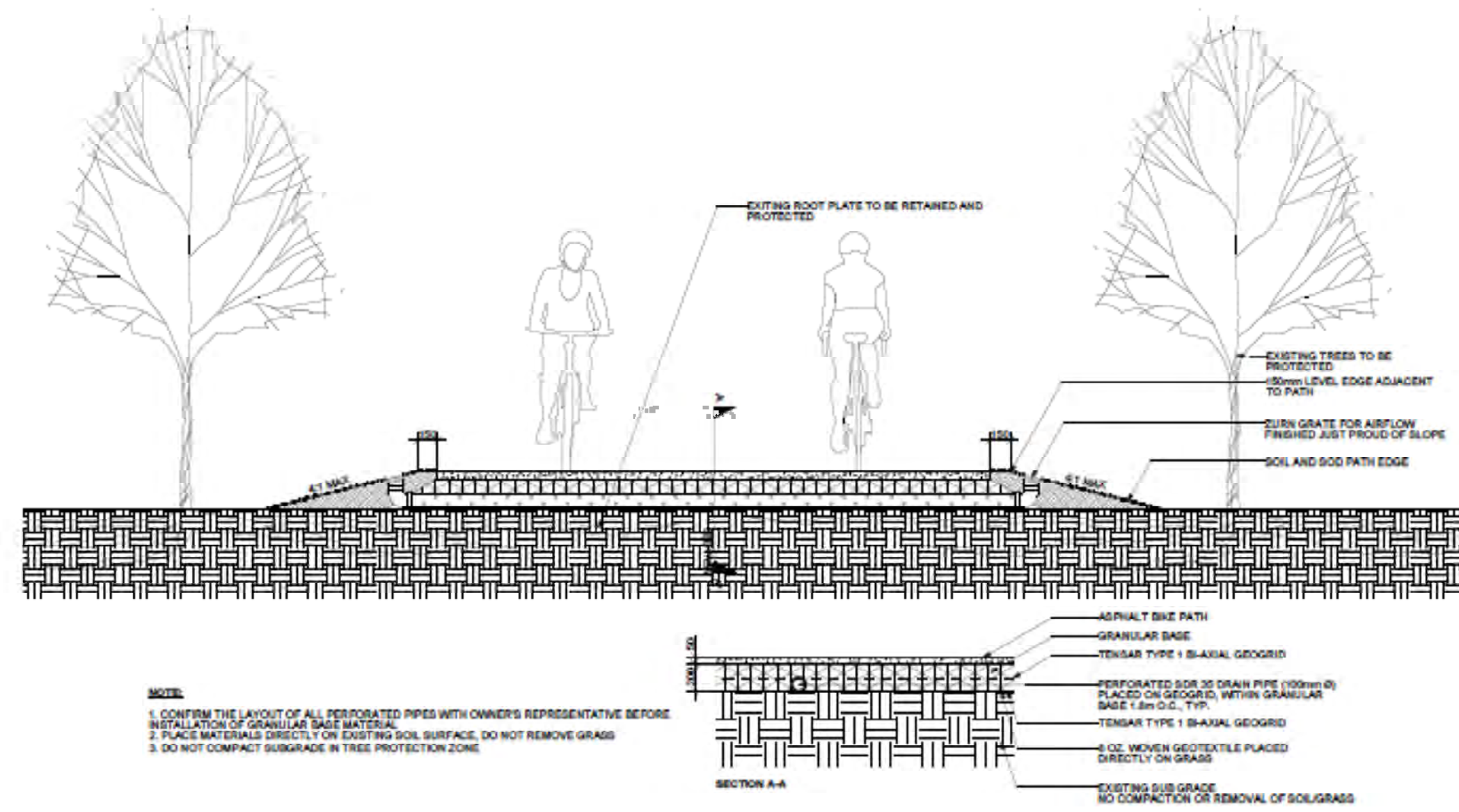
Project Title: **UBC South Campus GREENWAY**

Drawing Title: **Landscape Details**

Project North: Drawn By: KS
Checked By: MP

Scale: As Shown Job No.: 12-075

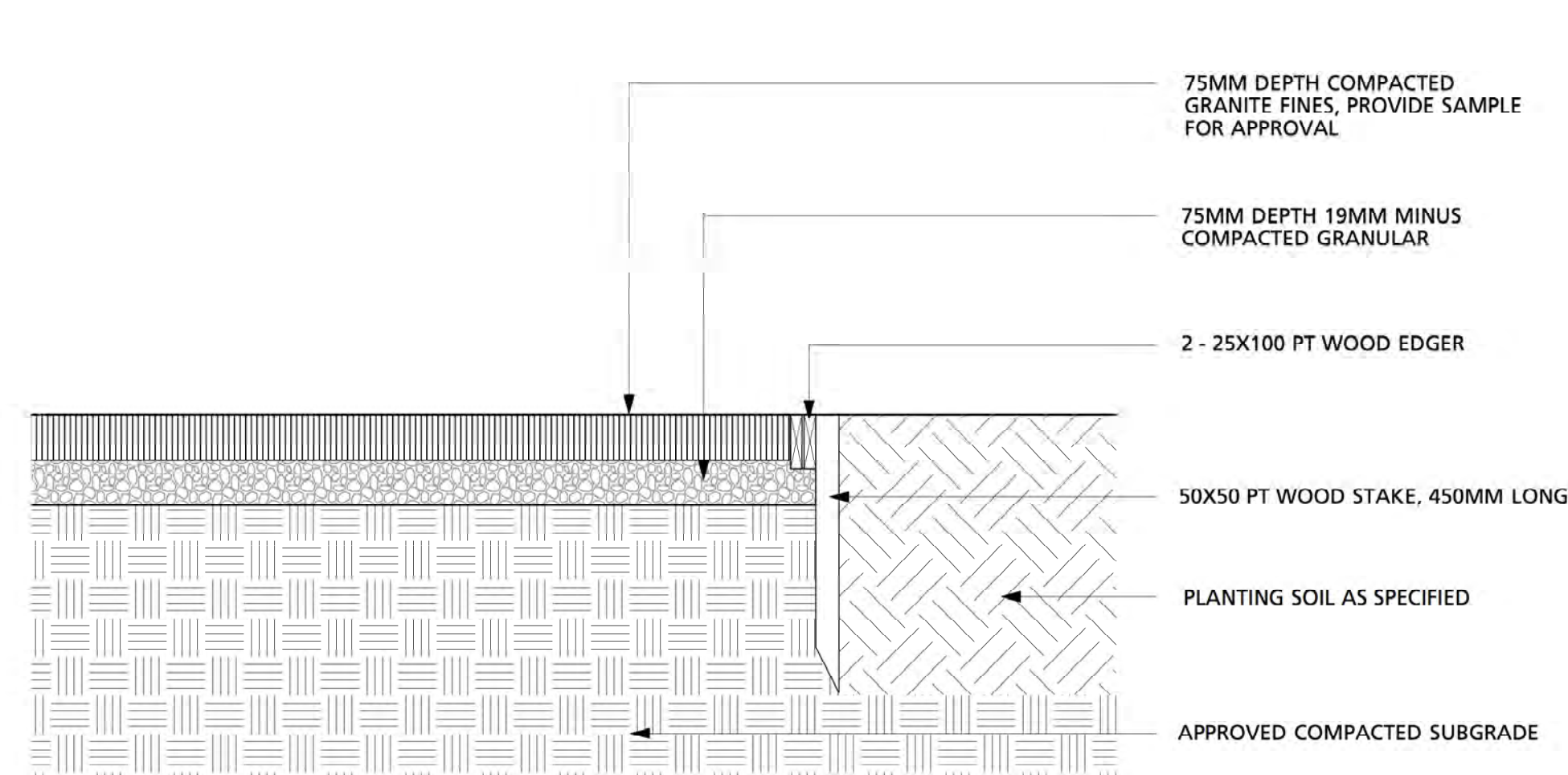
Sheet No.:



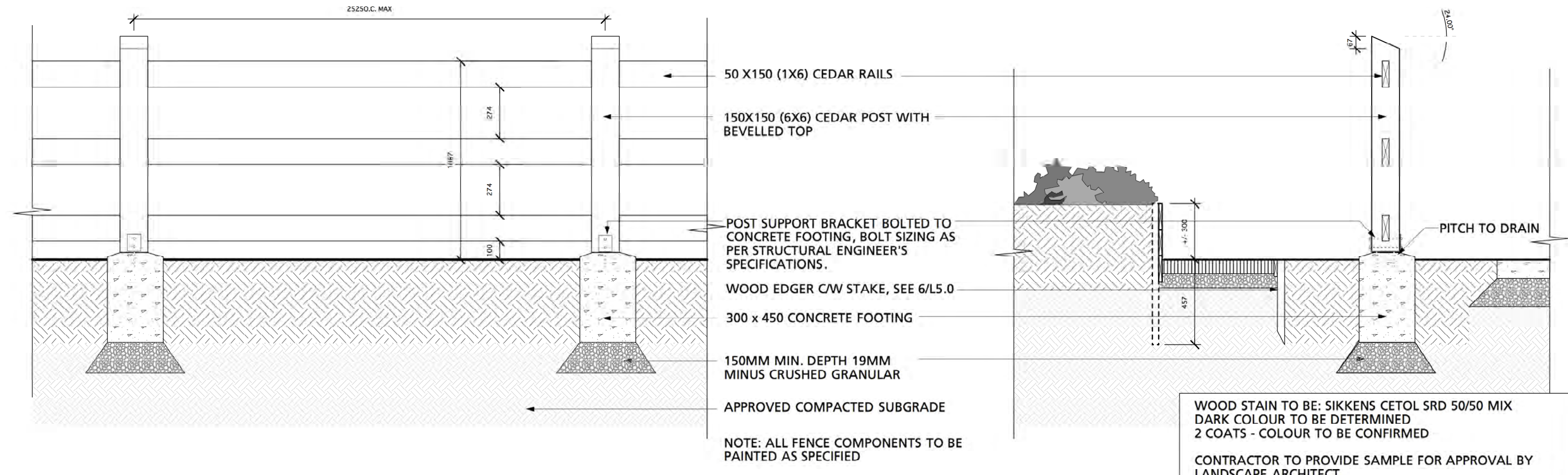
NOTES:
 1. CONFIRM THE LAYOUT OF ALL PERFORATED PIPES WITH OWNER'S REPRESENTATIVE BEFORE INSTALLATION OF GRANULAR BASE MATERIAL
 2. PLACE MATERIAL DIRECTLY ON EXISTING SOIL SURFACE. DO NOT REMOVE GRASS
 3. DO NOT COMPACT SUBGRADE IN TREE PROTECTION ZONE

Refer to arborist report for locations rootzone trails

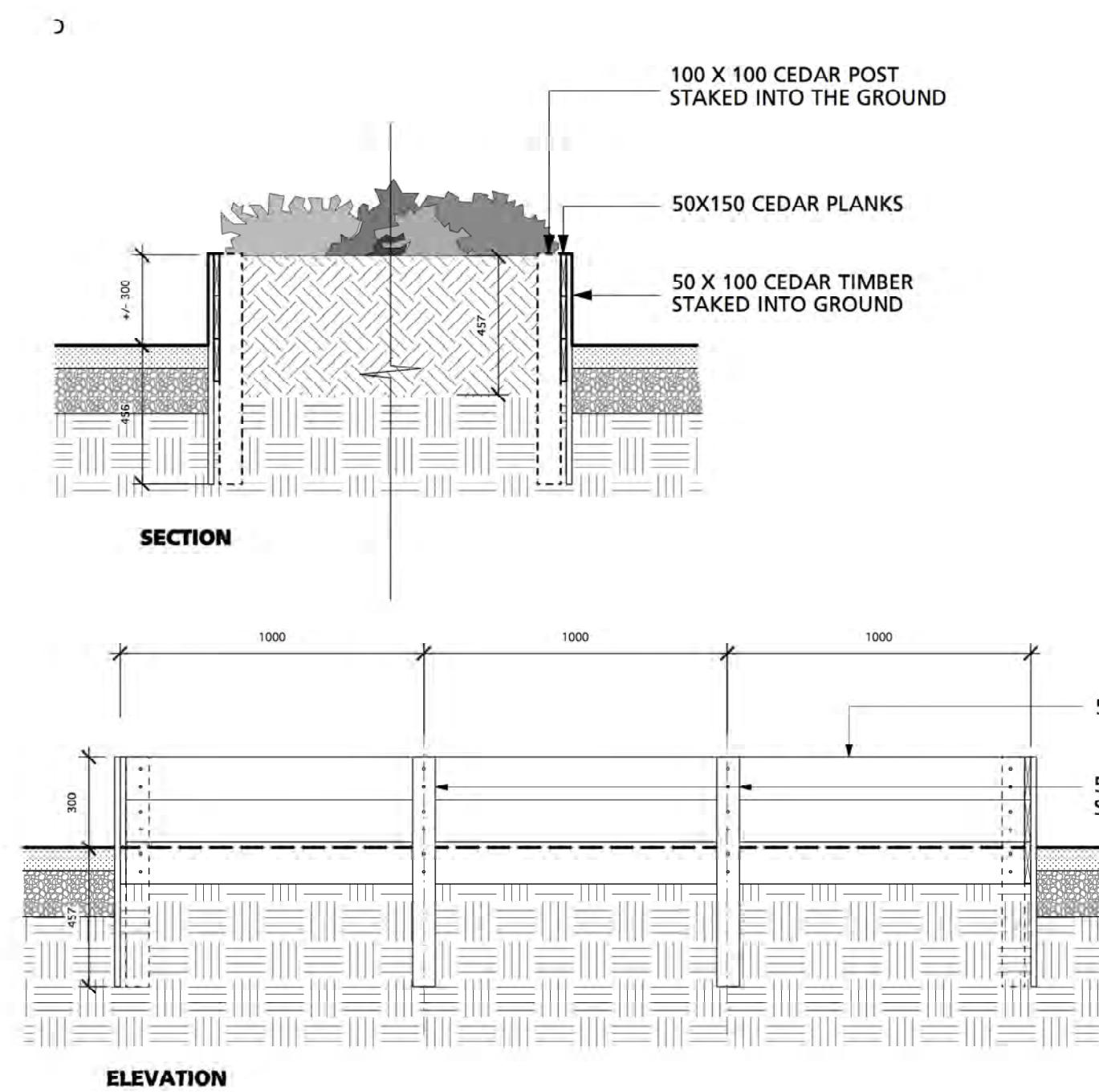
7 Path Over rootzone of existing trees by CoV
 NTS



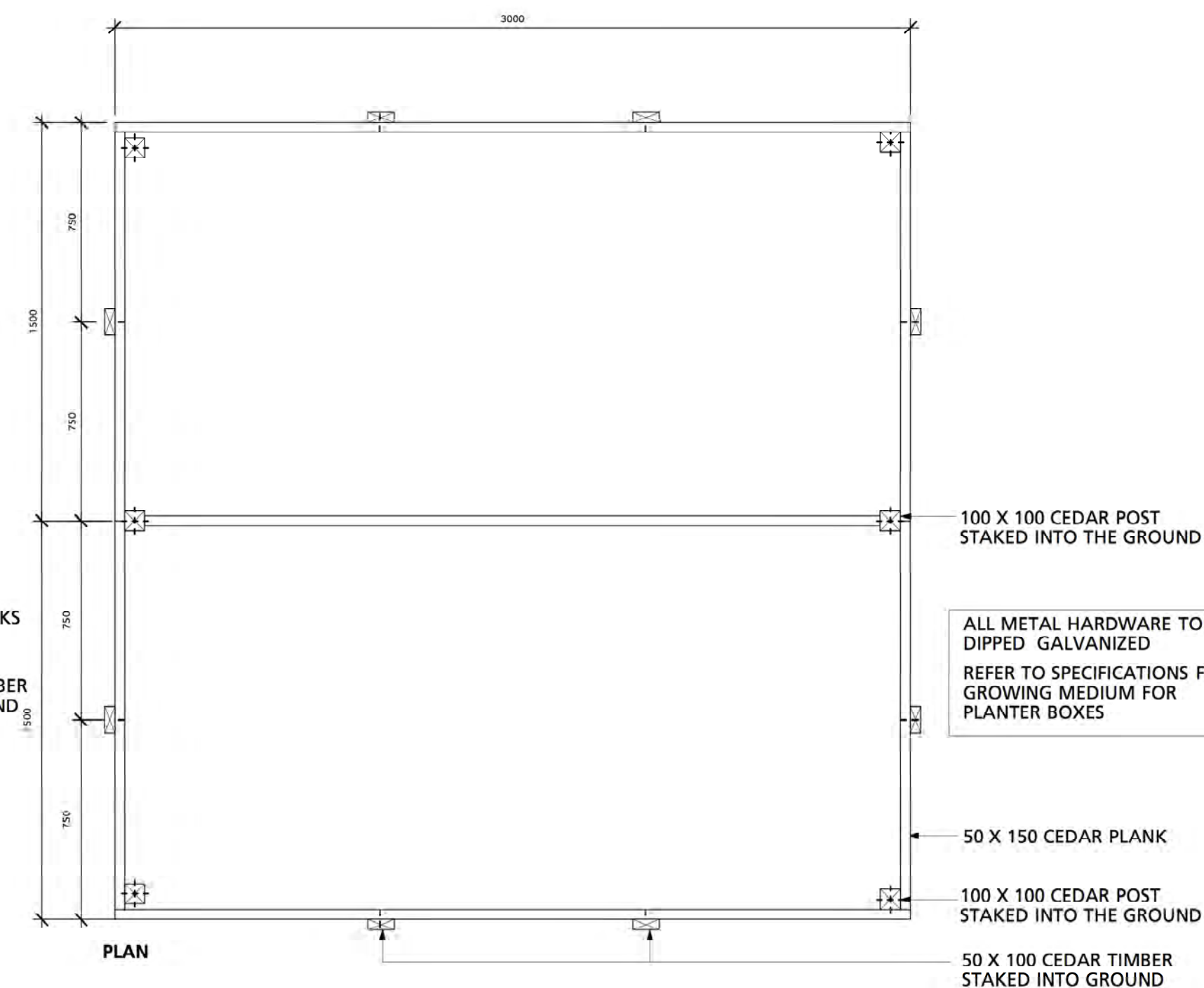
8 Community Garden Granite Fines
 1:10



9 Community Garden Fence
 1:20



10 Planter Beds
 1:20



11 Compost Bin
 NTS



11 CUBIC FEET RECYCLED PLASTIC "GARDEN GOURMET" COMPOST BIN OR APPROVED EQUAL
 AVAILABLE FROM WWW.GARDENGOURMET.COM
 COLOUR: BLACK
 ASSEMBLE AS PER MANUFACTURER'S SPECIFICATIONS

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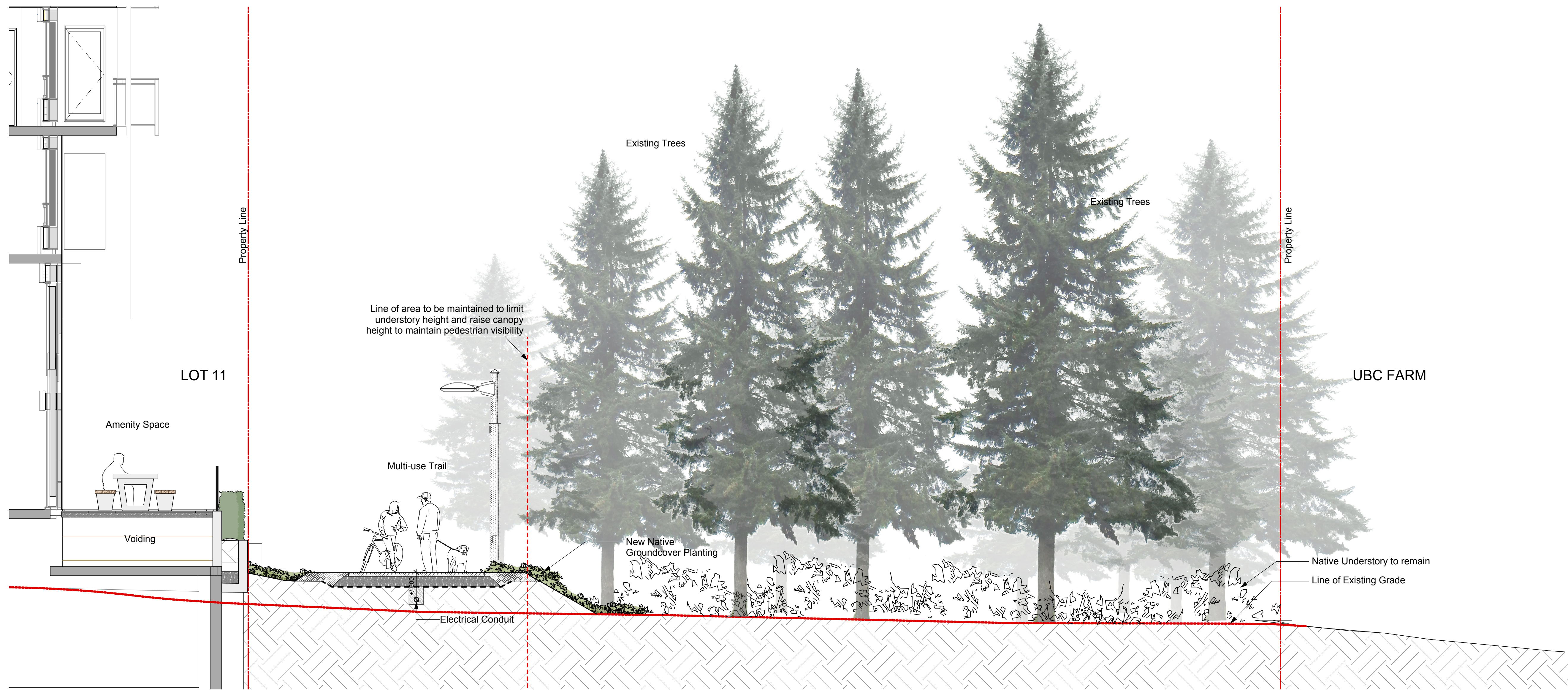
Project Title: **UBC South Campus GREENWAY**

Drawing Title: **Landscape Details**

Project North: Drawn By: KS
 Checked By: MP

Scale: As Shown Job No.: 12-075

Sheet No.:



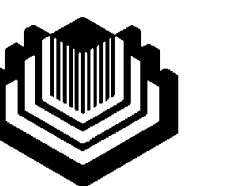
1 Section adjacent to Lot 11
 1:50

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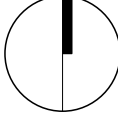
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Client: **UBC Properties Trust**



Project Title: **UBC South Campus GREENWAY**

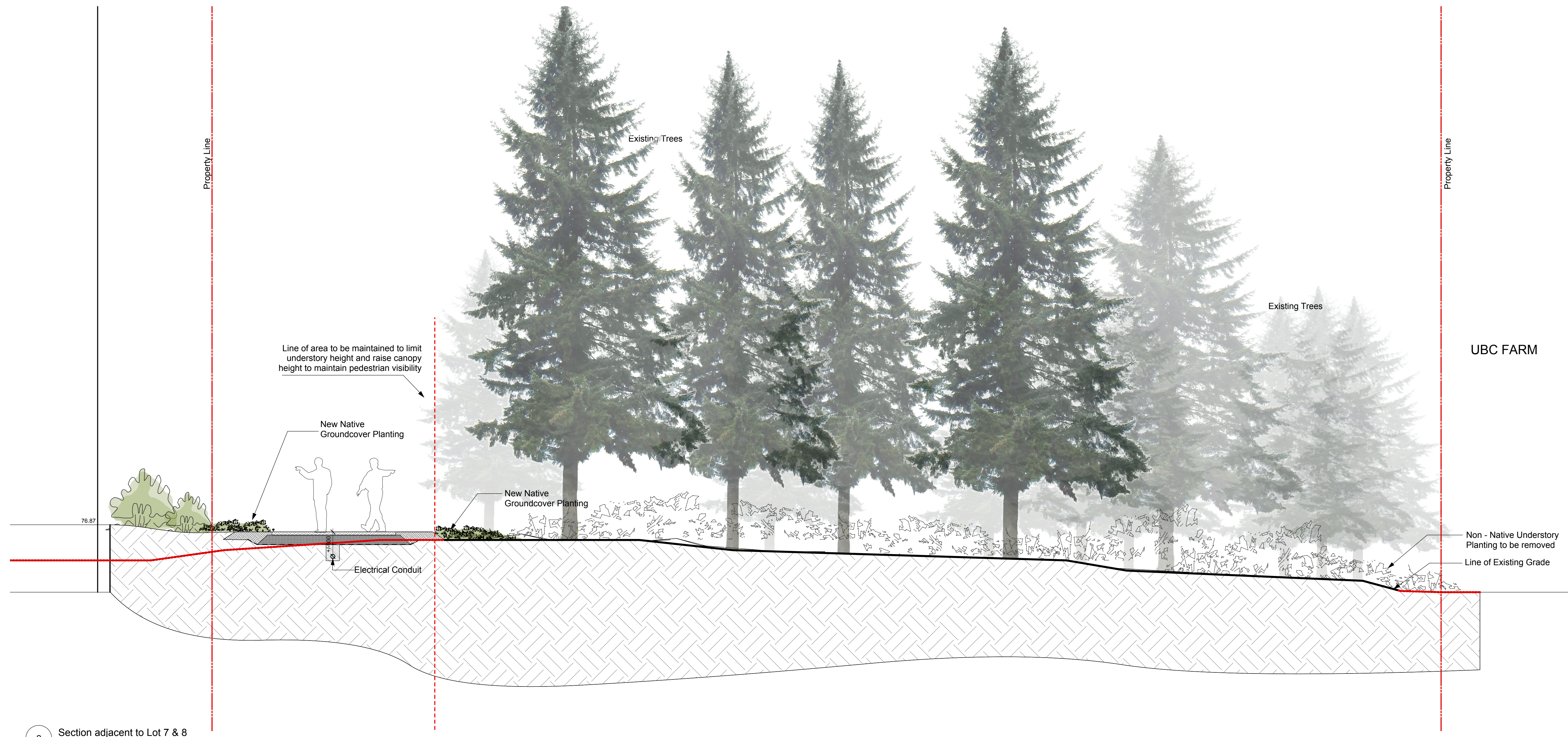
Drawing Title: **Landscape Sections**

Project North:  Drawn By: ks
 Checked By: mp

Scale: 1:50 Job No.: 12-075

Sheet No.:

L6.0

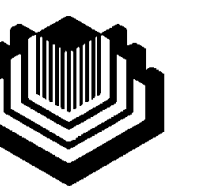


2 Section adjacent to Lot 7 & 8
 1:50

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Client:
UBC Properties Trust



Project Title:
UBC South Campus GREENWAY

Drawing Title:
Landscape Sections

Project North: Drawn By: ks
 Checked By: mp
 Scale: 1:50 Job No.: 12-075

Sheet No.:
L6.1