

Food and Beverage Innovation Centre Landscape Drawings

Issued For Development Permit - March 01, 2022

DRAWING LIST

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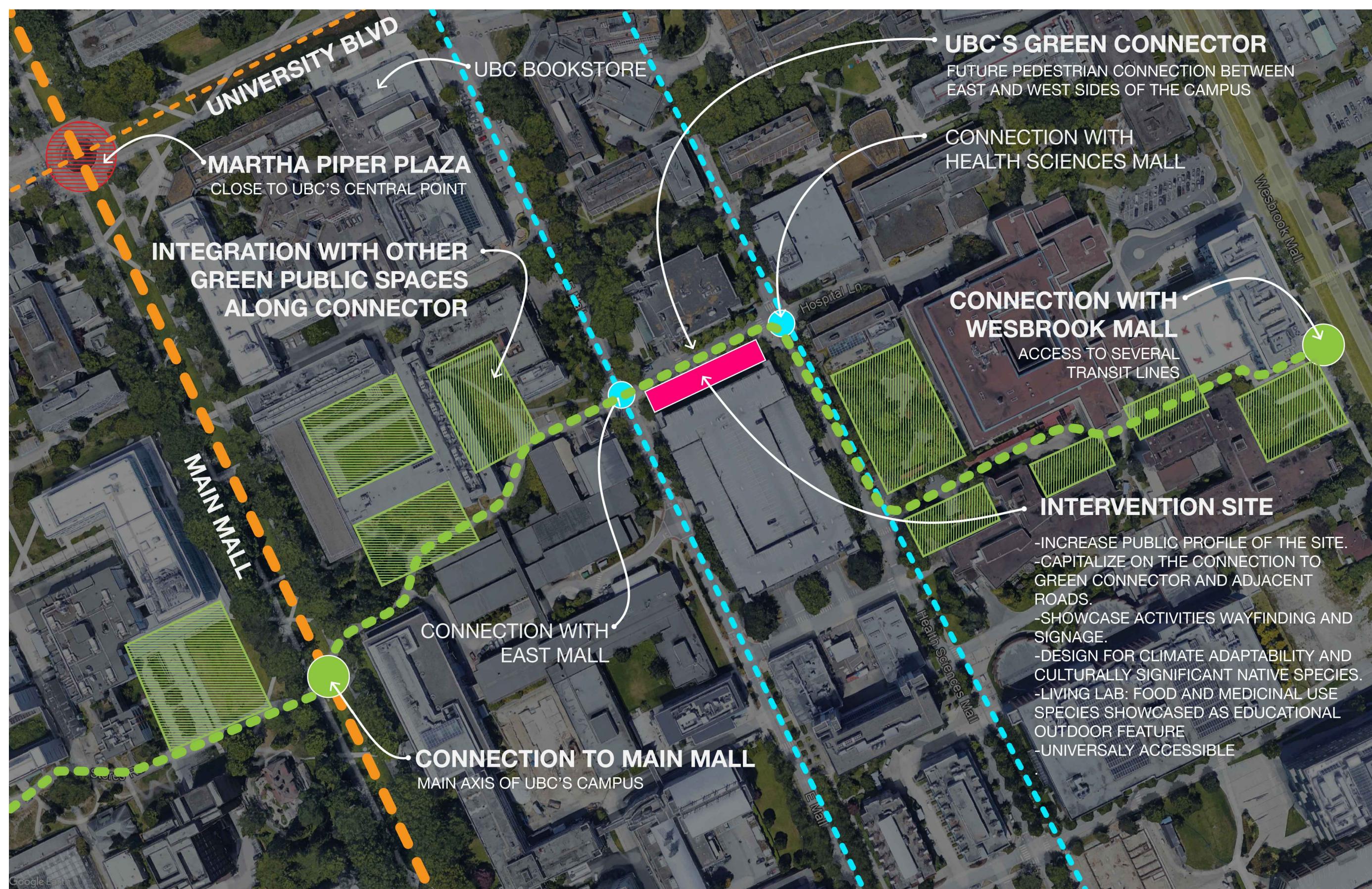
L3.20 - Site Furnishing Details

L3.21 - Site Furnishing Details

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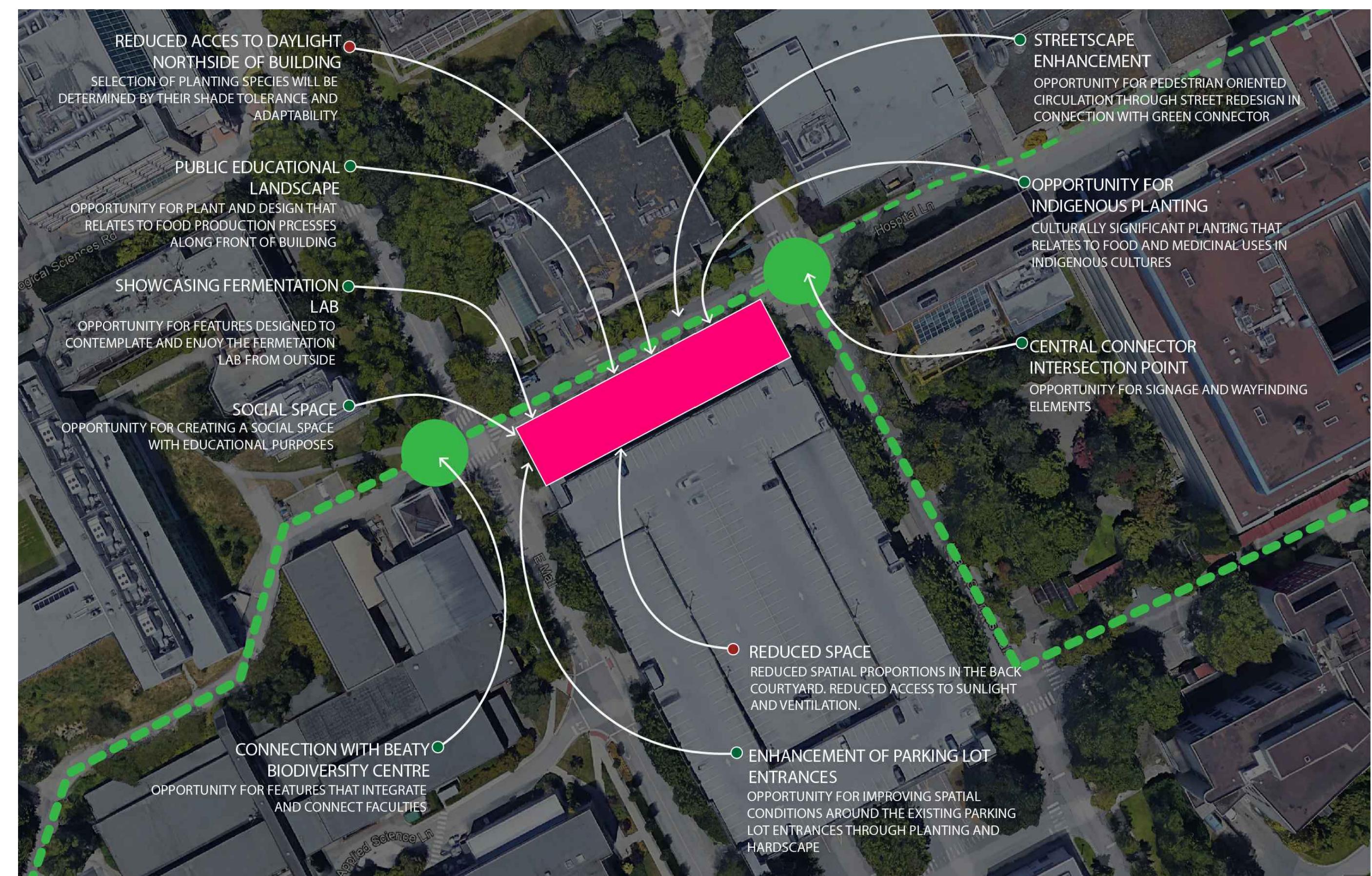
L3.40 - Planting Details

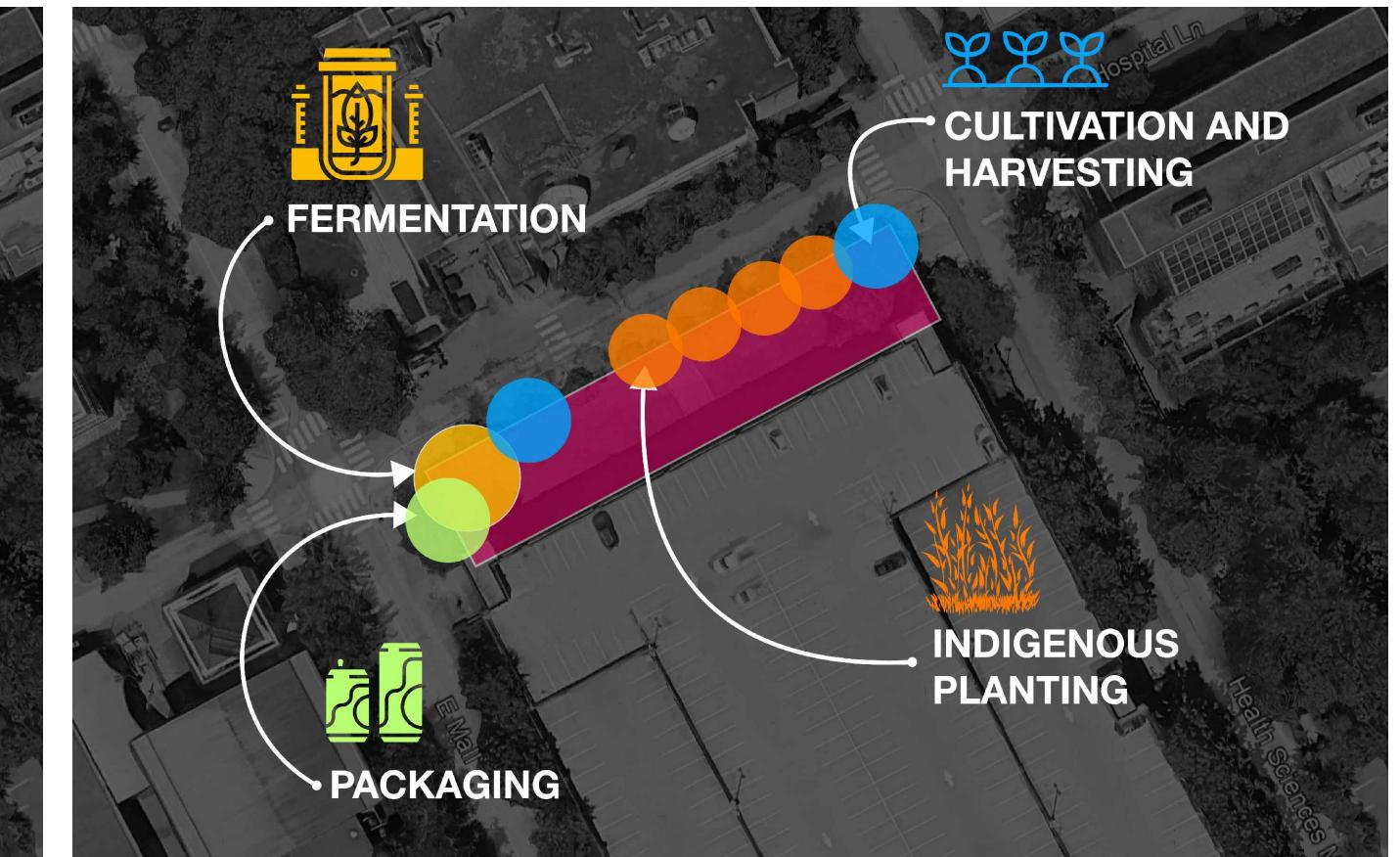
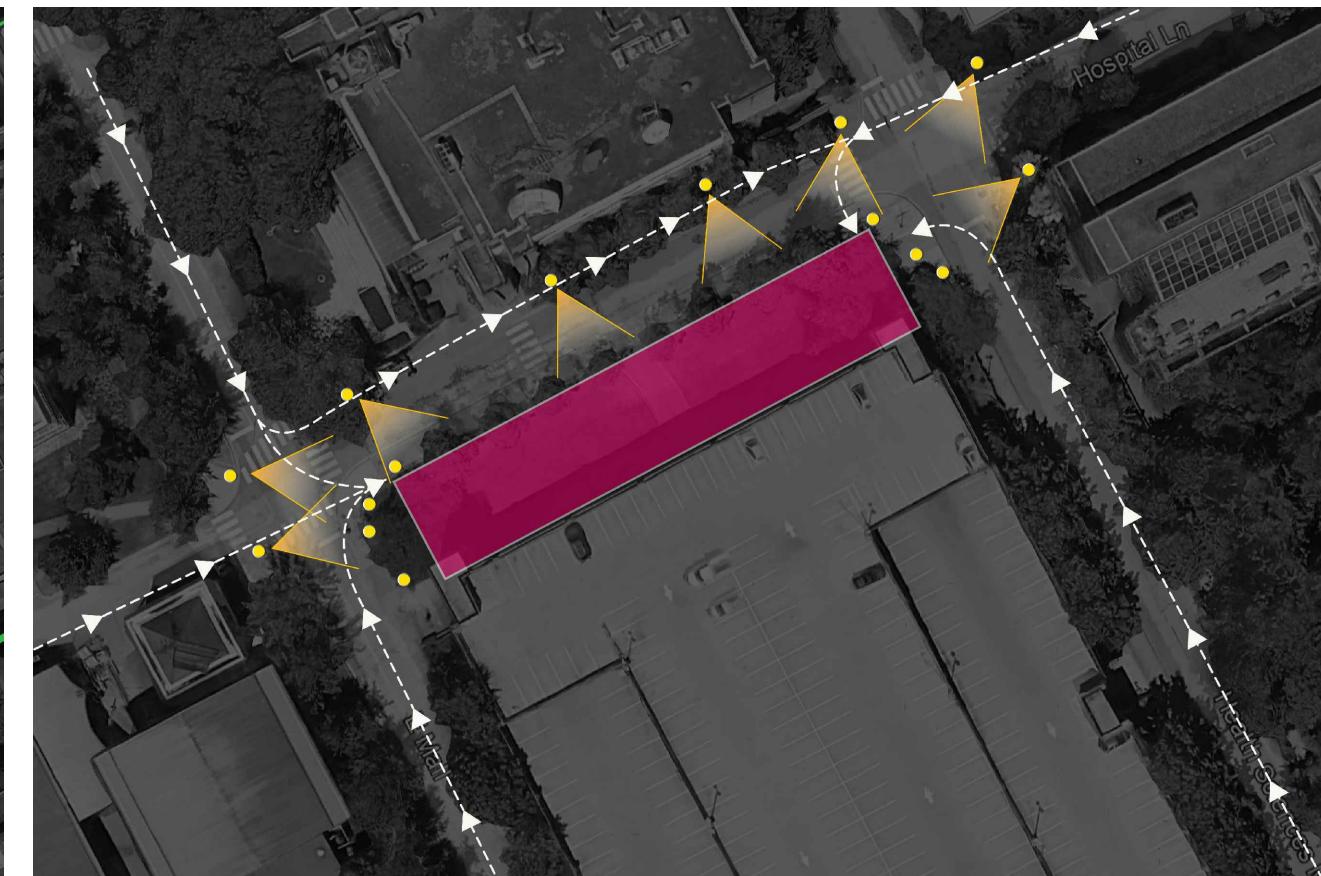
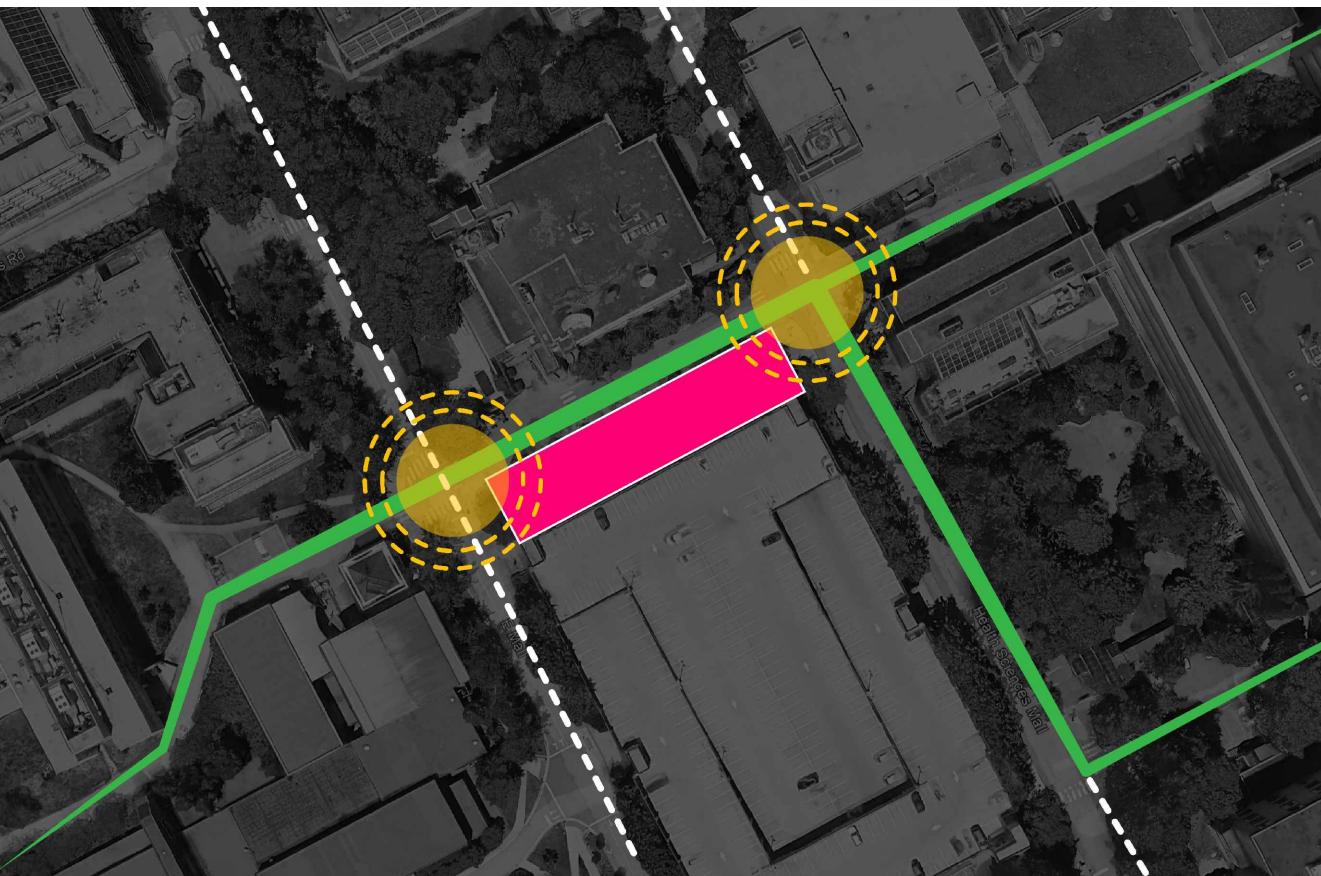
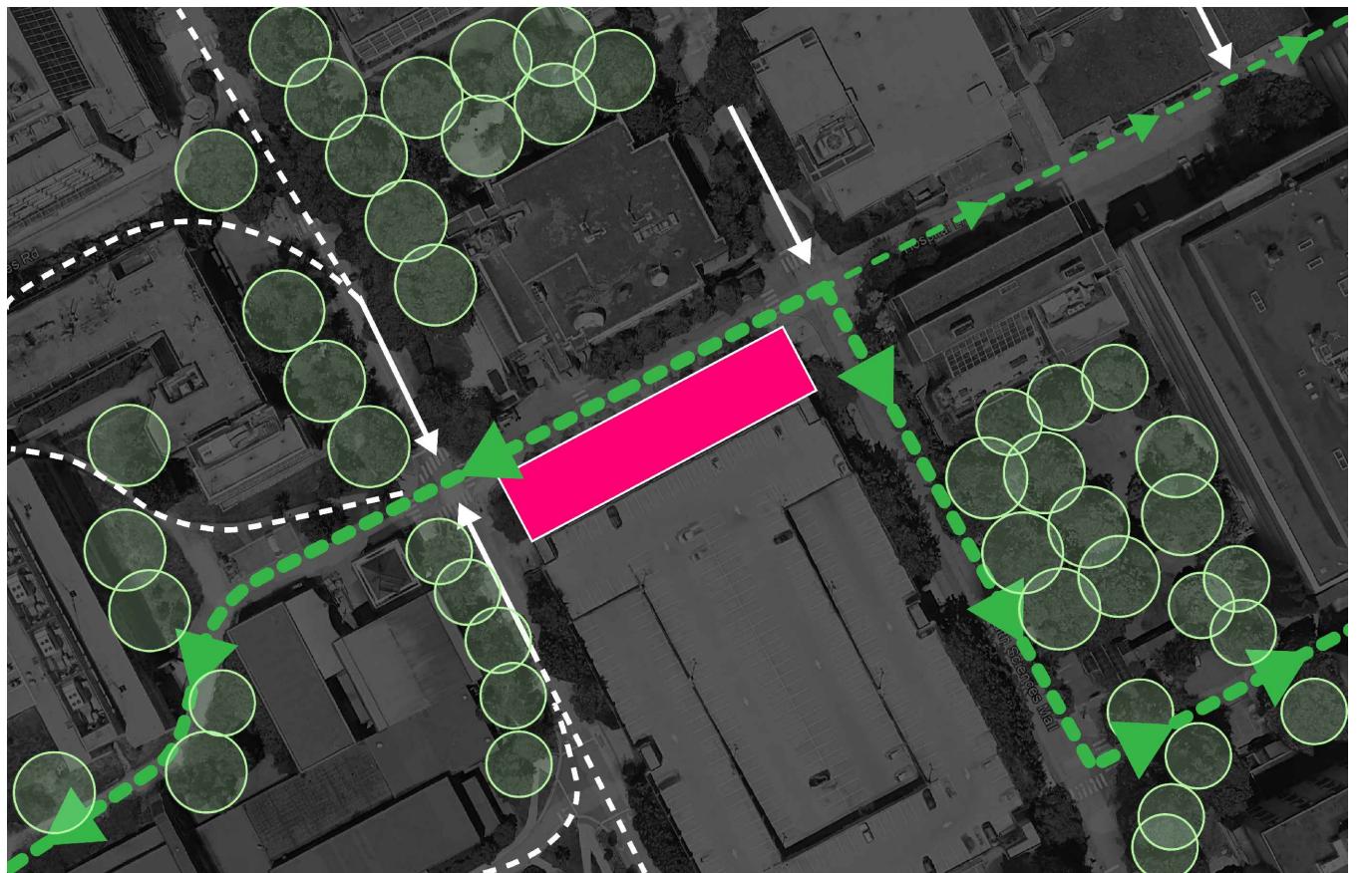
Public Realm Observations



This project introduces itself in the context between Main Mall and the UBC Central Connector project presenting many advantages and opportunities in terms of connectivity to the bigger context, highlighting the importance of creating an inviting, public and inclusive space.

Opportunities and Constraints





INTEGRATED WITH WIDER CONTEXT

The project site works as a central node between the Beaty Biodiversity Museum courtyard and the Biomedical Research Centre, presenting opportunities to connect these spaces as part of the larger Sciences complex through the Central Connector. The design intends to be part of a series of green spaces, articulated by the Central connector, that promotes natural and wild landscapes on campus.

HINGE

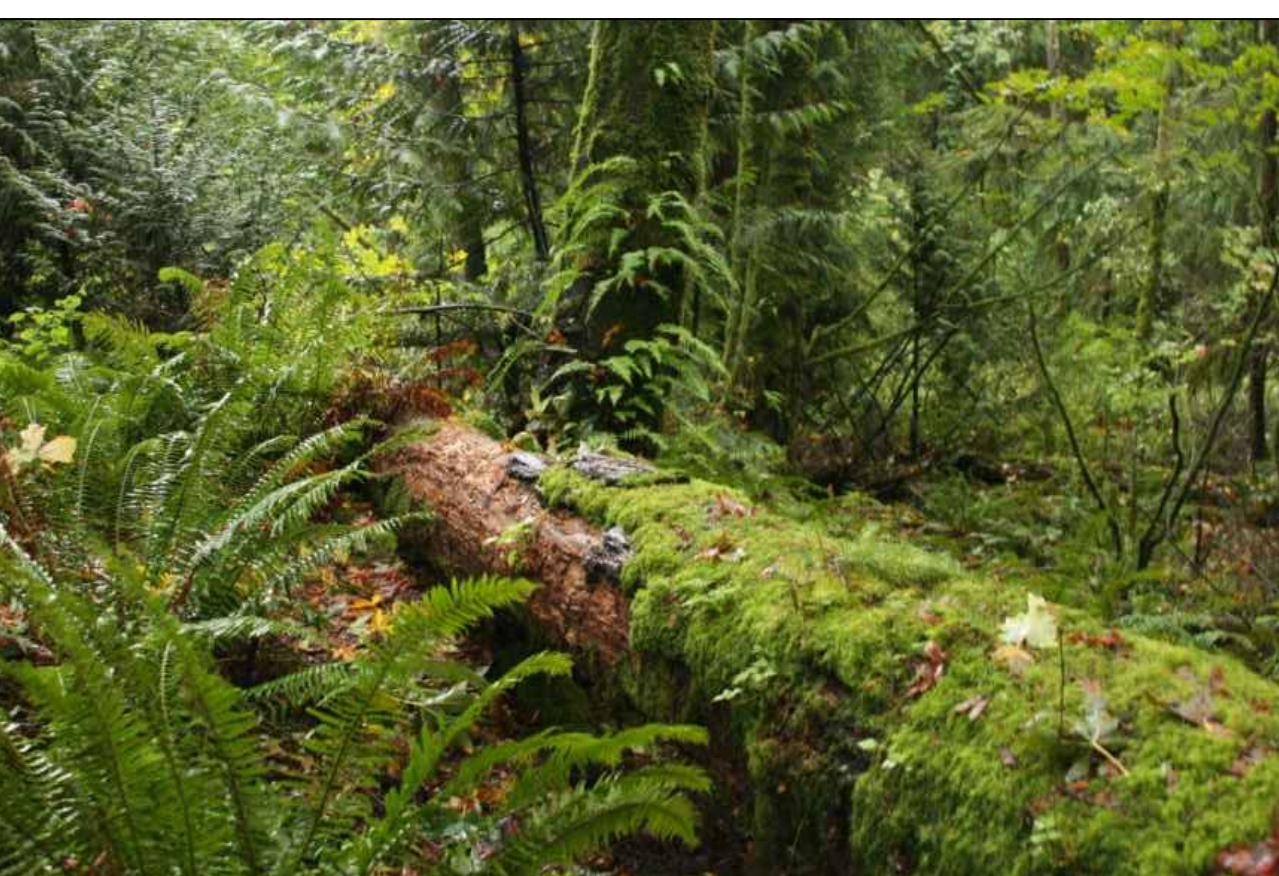
This project is a clear landmark within the context of the Central Connector thank to the two corners in the west and east parts of the site. These corners work as hinges to articulate the central connector with different pedestrian routes that can be taken from the Health Sciences Mall, East mall, and Hospital Lane, working as a distributor of pedestrian traffic.

PUBLIC AND ACCESSIBLE

The building and the landscape are designed to exhibit and portray different processes related to food production, from the obtention of the raw materials to its packaging and presentation. The landscape encourages curiosity and the approximation to the building as a way to create informal learning and, also, support one of the main principles of the central connector: thematic walks.

DEMONSTRATION OF PROCESSES - FOOD PRODUCTION

The building and the landscape are designed to exhibit and portray different processes related to food production, from the obtention of the raw materials to its packaging and presentation. The landscape encourages curiosity and the approximation to the building as a way to create informal learning and, also, support one of the main principles of the central connector: thematic walks.



DESCRIPTIVE POP-ART

Inclusion of artistic elements in the public realm that help wayfinding and the positioning of the project as a landmark within the context of the central connector. These elements can reference any of the processes related to food, from the production to the packaging, with the intention of sparking curiosity in the users. These elements will not only improve the aesthetic of the connector, but also encourage the approximation to the building and the contemplation of the exhibited processes.

A NEW AESTHETIC

This project departs from the typical manicured landscape to specialize and promote the natural ecosystem aesthetic of the Pacific Northwest. The north facing section of the project will be populated with plant species typical from the understory ecosystem of the region, including edible and medicinal planting material that represents indigenous cultural values.

INDIGENOUS VALUES

The design inserts itself in the context of a larger campus initiative, responding to the need of including indigenous knowledge and culture in the campus context. The project proposes a contrast between the high technology production developed in the lab versus the indigenous traditional visions of the wild landscape as a source of raw material, food and medicinal species.

TRANSPARENCY

The landscape responds and supports the exhibited processes in the Food and Beverage Innovation Centre architecture, creating spaces in the public realm for contemplation from the outside. The intention behind this move is to provide a platform for informal learning in which pedestrian can appreciate these processes in their daily commute.

TREE MANAGEMENT LEGEND



EXISTING TREE TO BE REMOVED



EXISTING TREE TO BE RETAINED

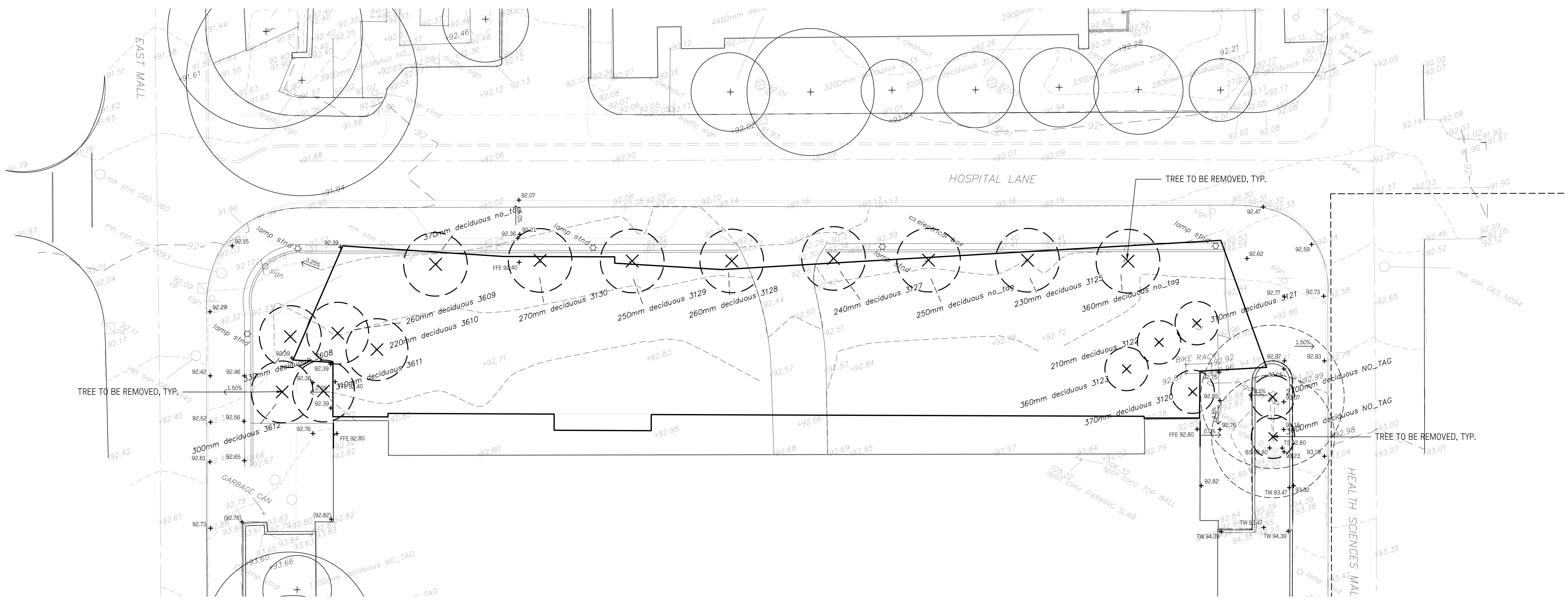
TREE MANAGEMENT PLAN NOTES

- REFER TO ARBORIST'S INVENTORY/ASSESSMENT REPORT PREPARED BY PROJECT ARBORIST FOR TREE SPECIES AND GENERAL CONDITIONS;
- ROOT PROTECTION ZONES ARE AS NOTED BY PROJECT ARBORIST;
- TRENCHING FOR UTILITY CONNECTIONS TO BE COORDINATED WITH ENGINEERING TO ENSURE SAFE ROOT ZONES OF RETAINED TREES.
- LIMIT OF WORK IS AN ESTIMATE ONLY, FINAL LIMIT OF WORK TO BE CONFIRMED BY THE UNIVERSITY OF BRITISH COLUMBIA.
- REFER TO TREE PROTECTION SPECIFICATION FOR DEMOLITION WITHIN THE TPZ.

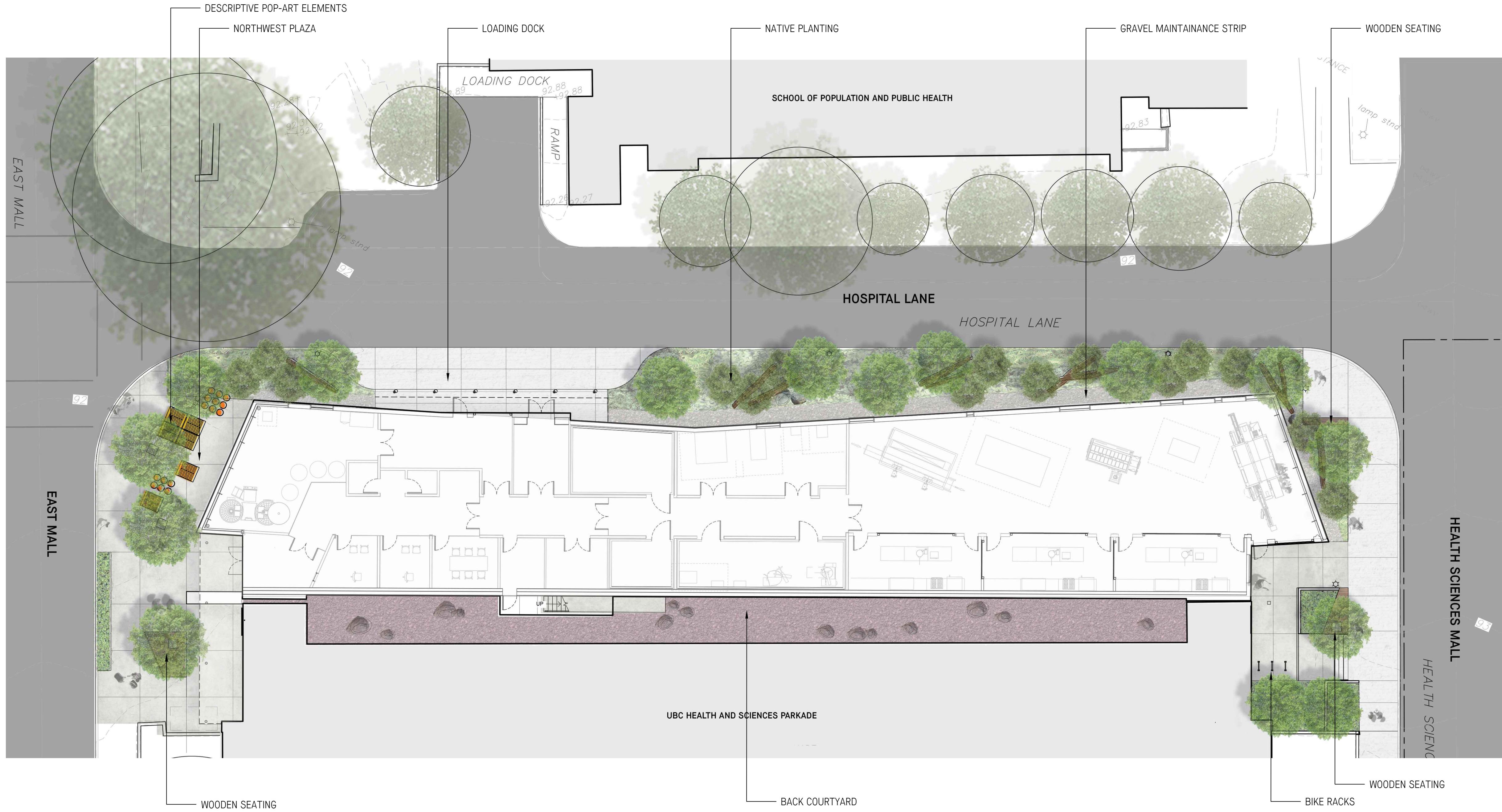
TREE MANAGEMENT	
TOTAL TREES TO BE REMOVED	17
TOTAL TREES TO BE RETAINED	0

Tree #	Location	Botanical Name	DBH (cm)	Ht (m)	Health and Condition Rating	Comments	Retention Value Rating	Retain/ Remove	Tree Retention Comments
3120	On site	Cherry (P. serrulata)	43	6	Good	Large swell at union of branches. Roots on surface with good crown spread.	High	Remove	Within the building footprint.
3121	On site	Cherry (P. serrulata)	45	6	Good	Larger cherry in group with large spread to east.	High	Remove	Within the building footprint.
3122	On site	Cherry (P. serrulata)	28	6	Moderate	Smaller tree in group. Likely from lack of light as it is surrounded by the others. Roots at surface.	Medium	Remove	Within the building footprint.
3123	On site	Cherry (P. serrulata)	46	6	Good	Appears that the southern stem on this tree was removed at one time. No limbs to the south. Good health otherwise.	High	Remove	Within the building footprint.
3124	On site - no tag	Tulip tree (L. tulipifera)	46	12	Good	Good vigour and evenly spaced crown. Good pruning wound closure.	High	Remove	Within the building footprint.
3125	On site	Tulip tree (L. tulipifera)	26	10	Moderate	Thinning crown, smaller size than the other in row. Likely impacts from sidewalk. Requires fertilization, mulching.	Medium	Remove	Within the building footprint.
3126	On site	Tulip tree (L. tulipifera)	35	11	Good	Large leaves and appears to have good vigour. Good wound closure with pruning cuts for lift pruning.	High	Remove	Within the building footprint.

Tree #	Location	Botanical Name	DBH (cm)	Ht (m)	Health and Condition Rating	Comments	Retention Value Rating	Retain/ Remove	Tree Retention Comments
3127	On site	Tulip tree (L. tulipifera)	24	9	Moderate	Thinning crown. The curb for the parking lot cut into root zone - or limited soil supply.	Low	Remove	Within the building footprint.
3128	On site	Tulip tree (L. tulipifera)	34	11	Good	Good vigour and crown spread. Good wound closure on pruning cuts.	High	Remove	Within the building footprint.
3129	On site	Tulip tree (L. tulipifera)	32	11	Good	Good vigour and crown spread. Good wound closure on pruning cuts.	High	Remove	Within the building footprint.
3130	On site	Tulip tree (L. tulipifera)	33	11	Good	Good vigour and crown spread. Good wound closure on pruning cuts.	High	Remove	Within the building footprint.
3608	On site	Cherry (P. serrulata)	44	13	Good	Larger tree, on corner with access to additional light, soil volume. Mulch path likely has helped with root growth. Good wound closure.	High	Remove	Within the building footprint.
3609	On site	Cherry (P. serrulata)	43	6	Good	Good crown spread and vigour. Roots to surface.	High	Remove	Within the building footprint.
3610	On site	Cherry (P. serrulata)	28	6	Moderate	Crown is shaded by adjacent trees. Good wound closure.	Medium	Remove	Within the building footprint.
3611	On site	Cherry (P. serrulata)	48	6	Good	Good crown spread and vigour. Roots to surface.	High	Remove	Within the proposed walkway.
3612	On site	Cherry (P. serrulata)	45	6	Good	Good crown spread and vigour. Roots to surface.	High	Remove	Within the proposed walkway.



Scale: 1:150 m.



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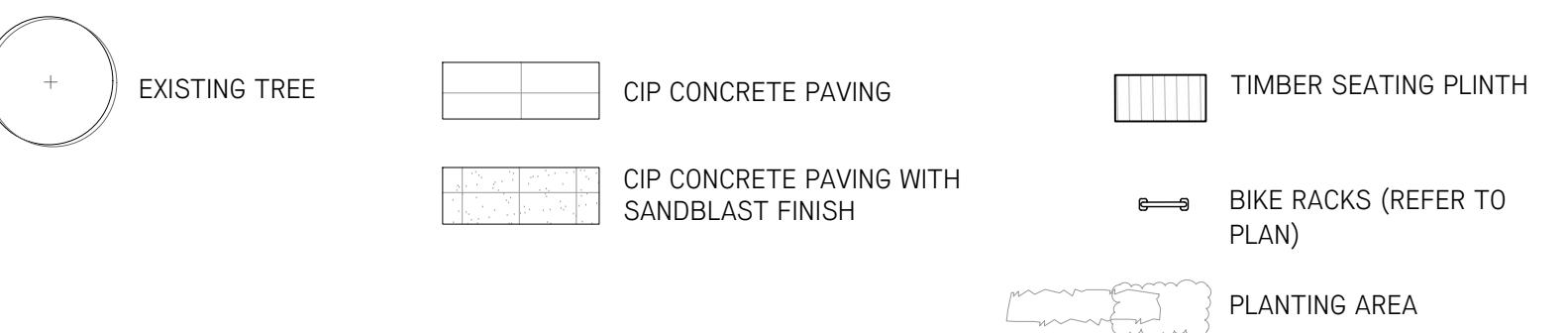
2022.03.01 1 Issued for DP
DATE REV DESCRIPTION

L1.01
Concept plan

GENERAL NOTES

- EXISTING SURVEY INFORMATION IS BASED ON THE FOLLOWING DRAWINGS: 8613JZ-01 2022 02 11 ACAD2007.dwg;
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR MUST MAKE CAREFUL EXAMINATION OF EXISTING SITE SURFACE CONDITIONS AND TOPOGRAPHY AND ADVISE LANDSCAPE ARCHITECT OF ANY UNSATISFACTORY SITE SURFACE CONDITIONS AND TOPOGRAPHY. NO ALLOWANCES WILL BE MADE LATER FOR ANY EXPENSES INCURRED THROUGH FAILURE TO NOTE UNSATISFACTORY SITE SURFACE CONDITIONS AND TOPOGRAPHY;
- DO NOT SCALE DRAWINGS. USE DIMENSIONAL INFO AS NOTED IN DRAWINGS. CONTACT THE LANDSCAPE ARCHITECT IF THERE IS ANY AMBIGUITY, LACK OF INFORMATION, OR INCONSISTENCY;
- THE CONTRACTOR WILL CLEAN AND REINSTATE ALL AREAS DAMAGED OR AFFECTED BY WORKS OUTSIDE THE LIMIT OF WORK TO THE CONDITIONS THAT EXISTED PRIOR TO CONSTRUCTION OR BETTER AND TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT;
- THE CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON DRAWINGS AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO CONSTRUCTION;
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE LIMIT OF WORK LINE;
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL UNDERGROUND UTILITIES AND TAKING THE NECESSARY PRECAUTIONS PRIOR TO AND DURING CONSTRUCTION. REFER TO CIVIL;
- CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF EXCESS FILL OFF-SITE;
- ARCHITECTURAL AND CIVIL DESIGN SHOWN FOR INFORMATION ONLY;
- REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR DISCIPLINE SPECIFIC REMOVALS.

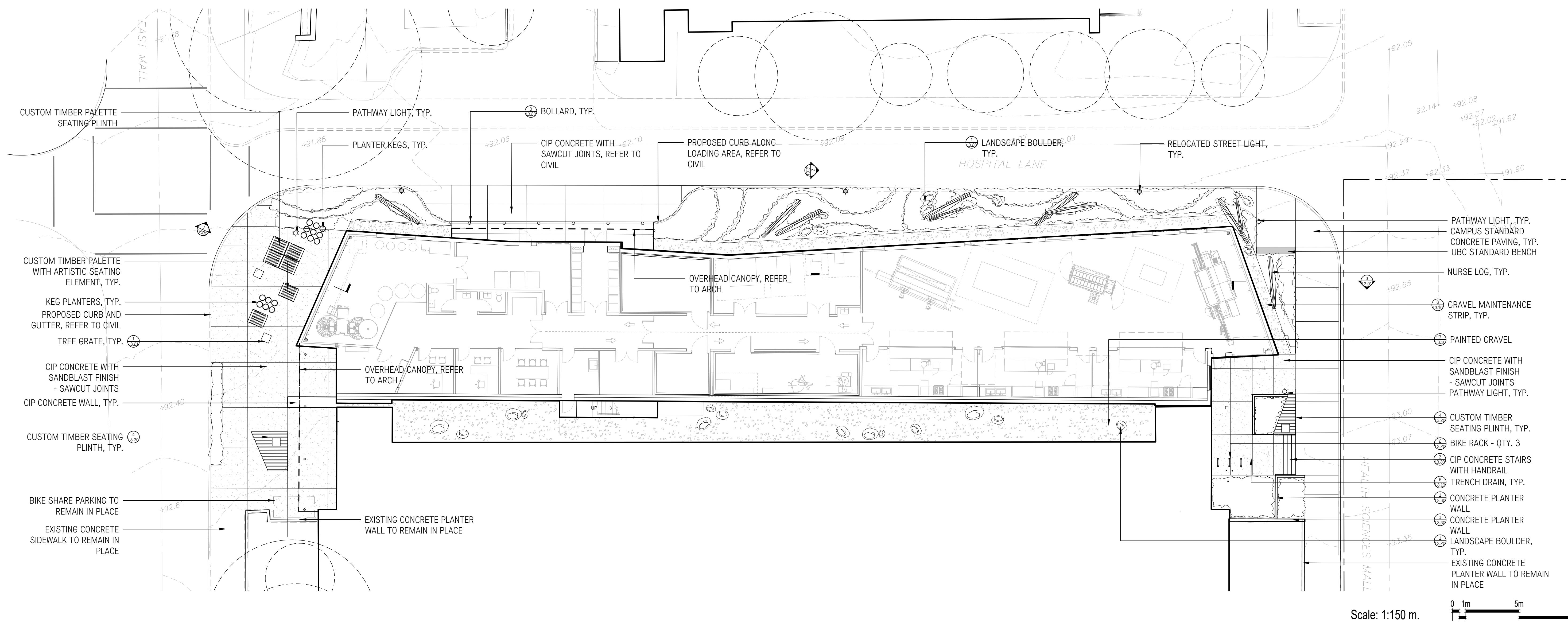
MATERIALS LEGEND



BIKE PARKING	
TOTAL BIKE RACKS	3

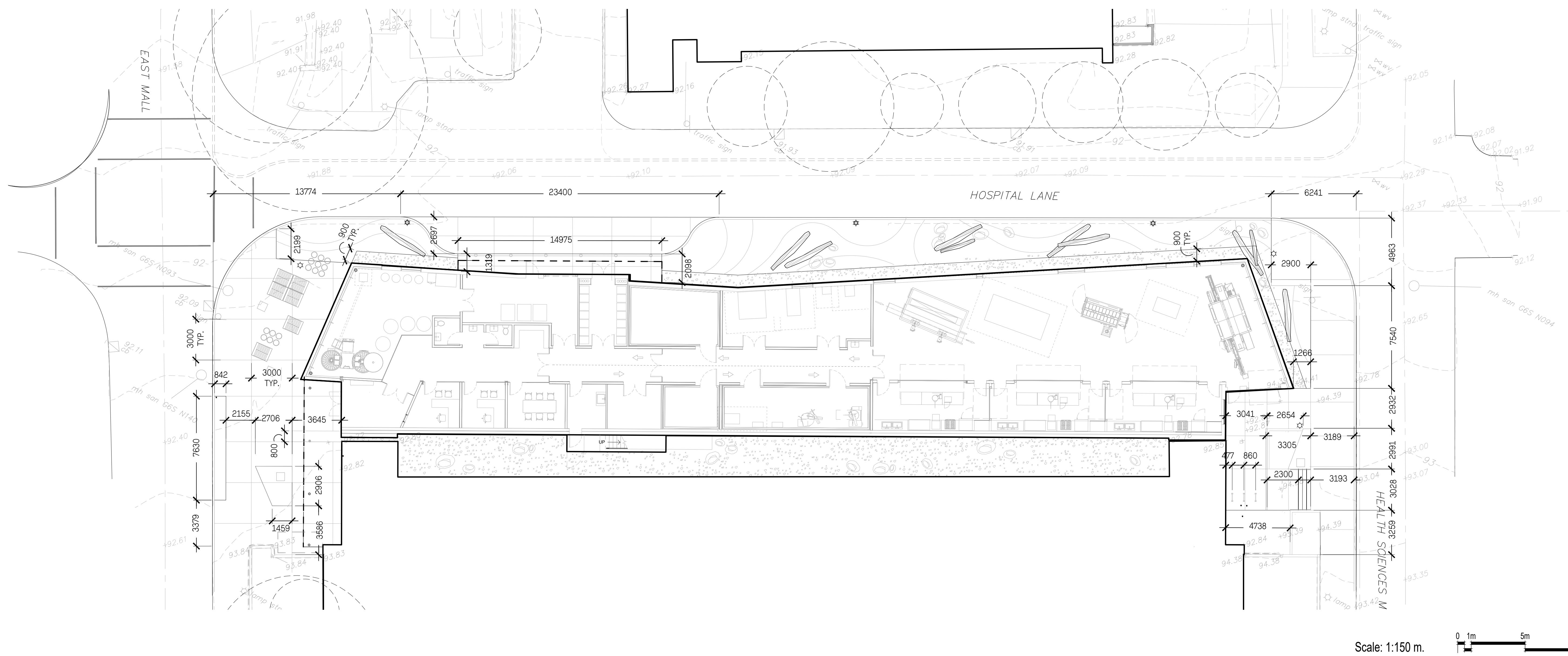
MATERIALS PLAN NOTES

- REFER TO DETAILS AND SECTIONS FOR ALL LANDSCAPE IMPROVEMENTS;
- REFER TO LIGHTING DRAWINGS FOR LIGHTING INFORMATION;
- REFER TO UNIVERSITY OF BRITISH COLUMBIA STANDARDS FOR WORK ON TYPICAL SIDEWALKS;
- TRENCHING FOR UTILITY CONNECTIONS TO BE COORDINATED WITH UNIVERSITY OF BRITISH COLUMBIA TO ENSURE SAFE ROOT ZONES OF RETAINED TREES. METHODS OF TREE PROTECTION FOR STREET TREES TO BE APPROVED BY UNIVERSITY OF BRITISH COLUMBIA;
- BOULDER PLACEMENT: COORDINATE REVIEW, SELECTION, AND PLACEMENT WITH LANDSCAPE ARCHITECT.



LAYOUT PLAN NOTES

1. ALL DIMENSIONS ARE NOMINAL; DIMENSIONS ARE BASED ON STATIONING POINTS PROVIDED BY CIVIL;
2. REFER TO GRADING PLAN FOR HORIZONTAL CONTROL OF PAVING/LANDSCAPE AREAS;
3. ALL SITE FURNISHING LOCATIONS TO BE CONFIRMED WITH LANDSCAPE ARCHITECT ON SITE PRIOR IN INSTALLATION;
4. CONFIRM SAWCUT PATTERN ONSITE WITH LANDSCAPE ARCHITECT;
5. REFER TO CIVIL DRAWINGS FOR ROADWAY AND CURB ALIGNMENTS AND DETAILS.



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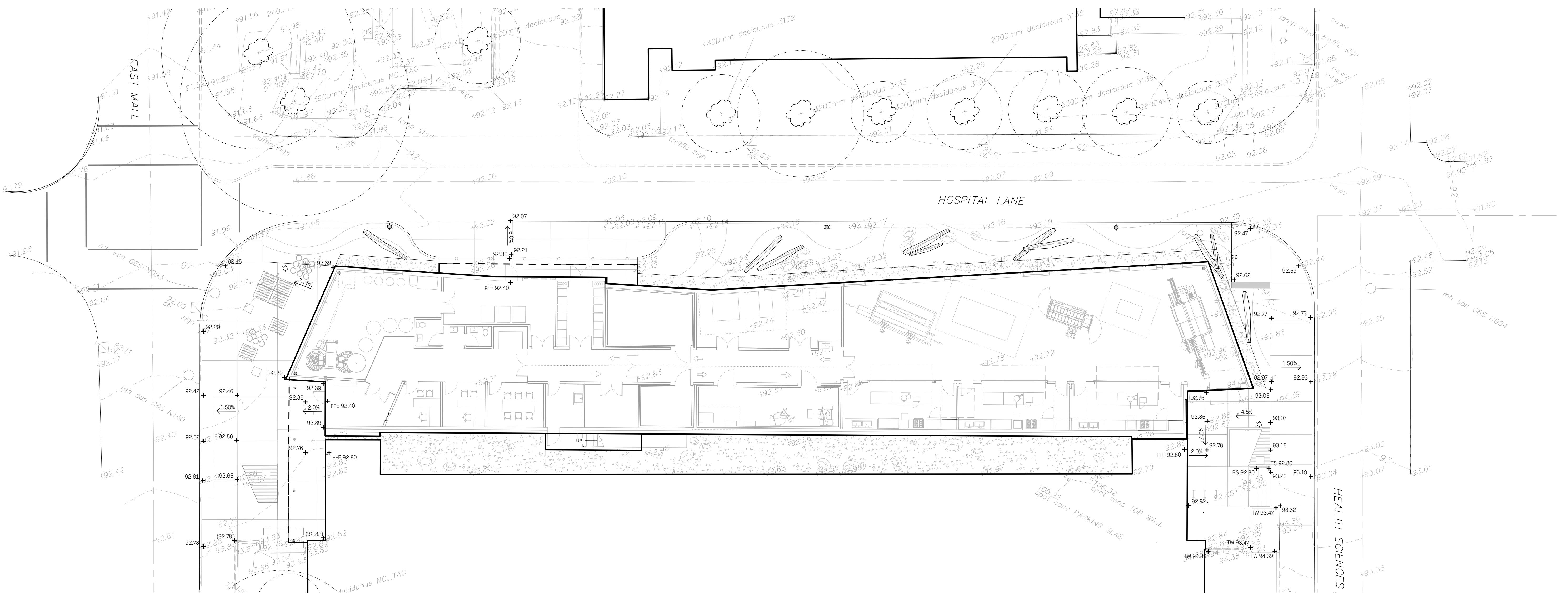
L1.21
Layout Plan

GRADING LEGEND

+00.00	PROPOSED ELEVATION	+FFE	FINISH FLOOR ELEVATION	+TC	TOP OF CURB
+TW	TOP OF WALL	+TB	TOP OF BENCH	+BC	BOTTOM OF CURB
+BW	BOTTOM OF WALL	+TS	TOP OF STAIRS	← 0.0 %	DIRECTION OF SLOPE
+TG	TOP OF FINISHED GRADE	+BS	BOTTOM OF STAIRS	+00.00	EXISTING SPOT ELEVATION AS PER SURVEY
	PERFORATED DRAIN PIPE	—	DRAIN PIPE	—	TRENCH DRAIN

GRADING PLAN NOTES

- ALL ELEVATIONS ARE NOMINAL AND ARE BASED ON SURVEY AND ELEVATIONS PROVIDED BY ARCH. AND CIVIL CONTRACTOR TO VERIFY ALL MEASUREMENTS;
- ALL PROPOSED ELEVATIONS ARE TO TOP OF FINISHED GRADE UNLESS NOTED OTHERWISE;
- ALL UTILITY COVERS INSIDE LANDSCAPE AREA TO BE ADJUSTED TO FINAL GRADE;
- CONDUCT GRADING START UP MEETING WITH LANDSCAPE ARCHITECT IN FIELD TO CONFIRM GRADING DESIGN.

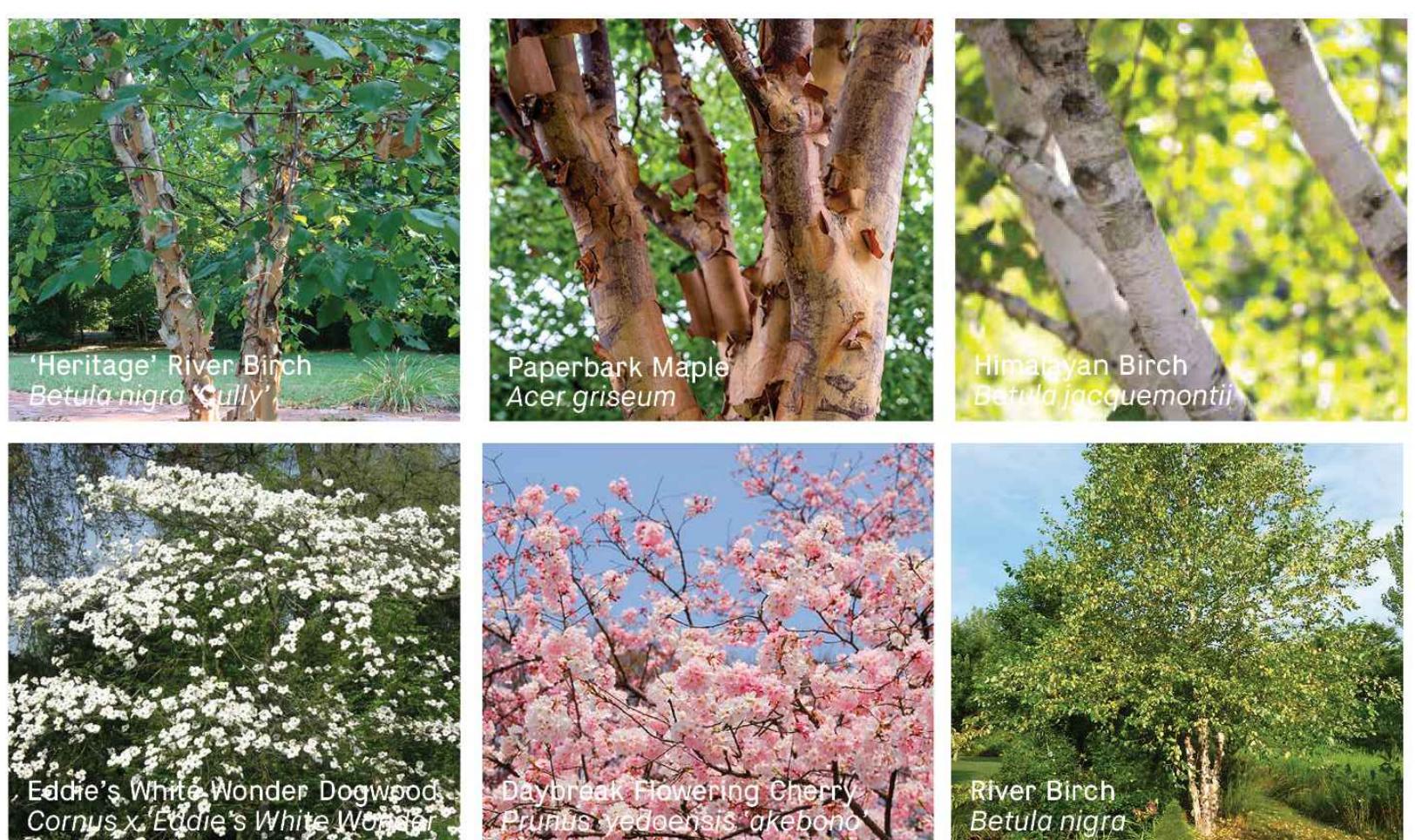


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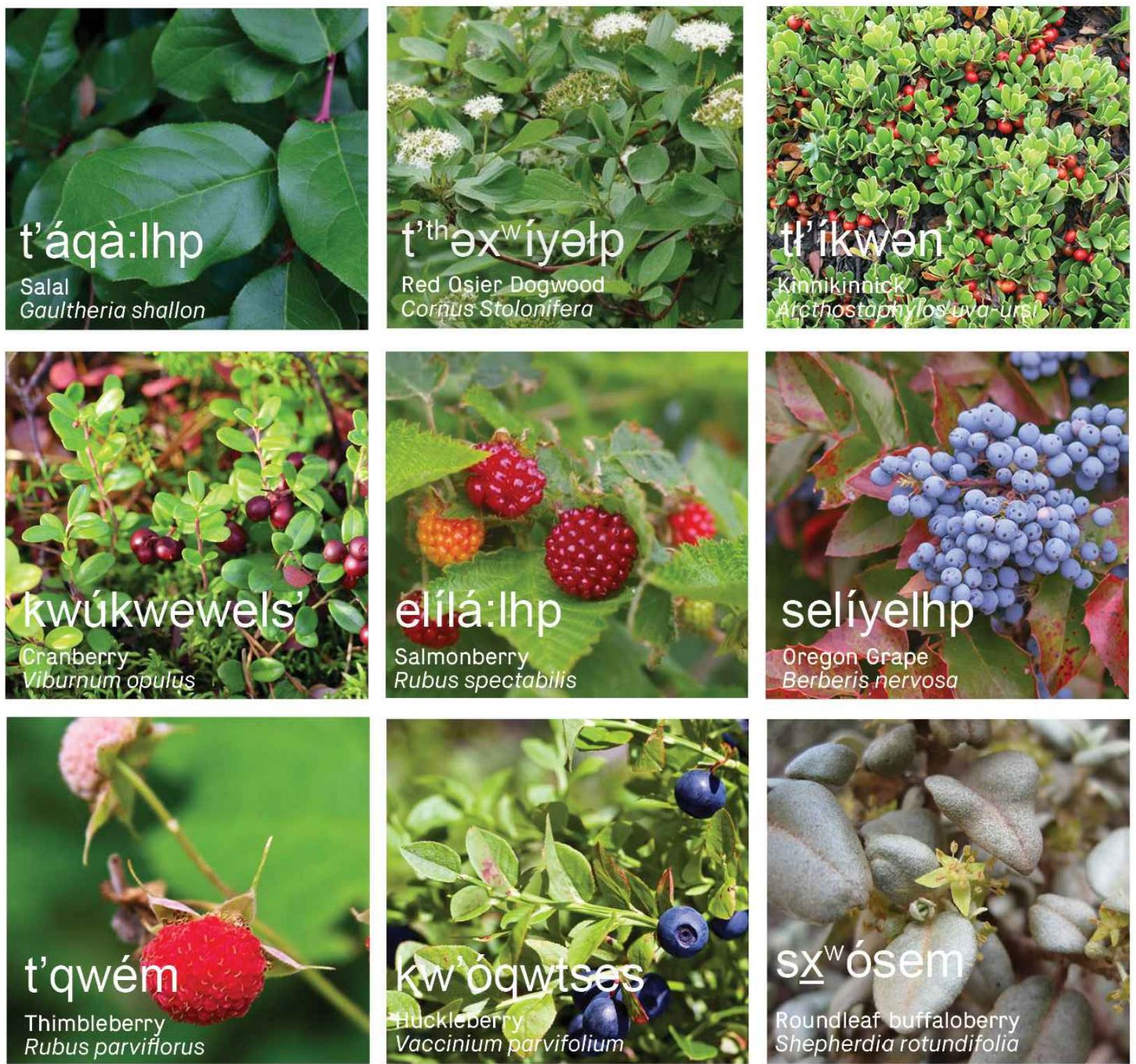
PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	COMMENTS	REMARKS
	AG	5	Acer griseum / Paperbark Maple	3.0m ht.		B&B, Straight Trunk, Uniform Branching, 1.5m std.	
	BB	8	Betula jacquemontii / Whitebarked Himalayan Birch	2m ht.		B&B, Multi-Stemmed, Dense Tree	
	BR	10	Betula nigra / River Birch	3.0m ht.		B&B, Straight Trunk, Uniform Branching, 1.5m std.	
	BC	5	Betula nigra 'Cully' TM / Heritage River Birch	2m ht.		B&B, Dense, Uniform Tree	
	CE	5	Cornus x 'Eddie's White Wonder' / Eddie's White Wonder Dogwood	2m ht.		B&B, Straight Trunk, Uniform Branching, 1.5m std.	
	PY	2	Prunus yedoensis 'Akebono' / Daybreak Flowering Cherry	7cm cal.		B&B, Specimen, Densly Branched	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	COMMENTS	REMARKS
	Au	101	Arctostaphylos uva-ursi / Kinnikinnick	#2 Pot			
	Cs	13	Cornus stolonifera / Red Twig Dogwood	#2 Pot			
	Gs	4	Gaultheria shallon / Salal	#2 Pot	45cm	Well Established	
	Mc	27	Mahonia aquifolium 'Compacta' / Compact Oregon Grape	#2 Pot			
	Rt	22	Rubus parviflorus / Thimbleberry	#2 Pot			
	Rs	53	Rubus spectabilis / Salmonberry	#3 Pot			
	Sr	14	Shepherdia rotundifolia / Roundleaf Buffaloberry	#2 Pot			
	Sa2	7	Symphoricarpos albus / Common White Snowberry	#2 Pot	75cm	Well Established	
	Vo	13	Vaccinium ovalifolium / Oval-leaf Blueberry	#3 Pot	120cm	Well Established	
	Vp	4	Vaccinium parvifolium / Red Huckleberry	#3 Pot	75cm	Well Established	
	Vo2	10	Viburnum opulus 'SMNVDOR' TM / Oh Canada Cranberrybush	#5 Pot			
FERNS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	COMMENTS	REMARKS
	Aa	46	Adiantum aleuticum / Western Maidenhair Fern	#2 Pot			
	Bs	10	Blechnum spicant / Deer Fern	#2 Pot			
	De	6	Dryopteris erythrosora / Autumn Fern	#2 Pot			

TREES



SHRUBS

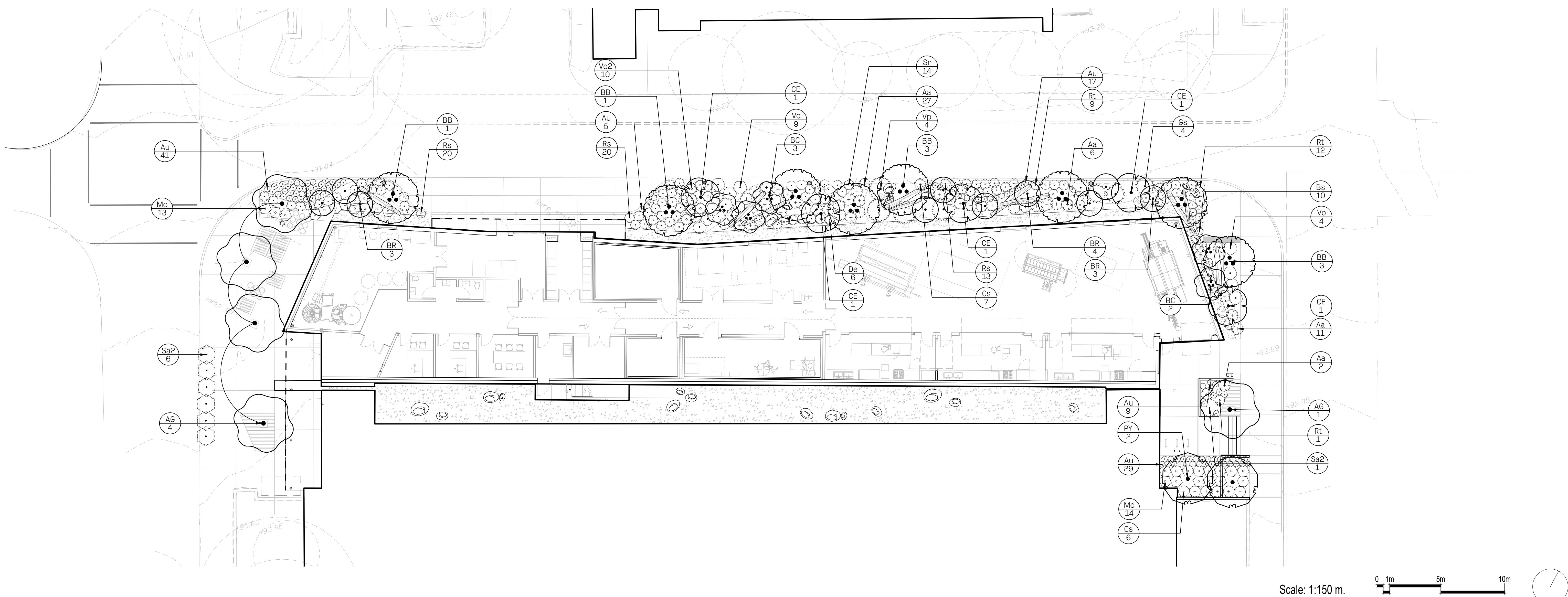


FERNS



PLANTING PLAN NOTES

1. ALL PLANT MATERIAL TO BCNTA AND BCSLA STANDARDS. REFER TO THE BCSLA LANDSCAPE STANDARD, LATEST EDITION;
2. ALL STREET TREES TO MEET CITY OF VANCOUVER STREET TREE GUIDELINES, LATEST VERSION, AND APPROVED BY UBC;
3. AREA OF SEARCH FOR PLANT MATERIAL: PACIFIC NORTHWEST, INCLUDING BRITISH COLUMBIA, WASHINGTON AND OREGON. FURTHER SEARCH TO BE TAKEN IF NECESSARY;
4. CONFIRM TREE PLANTING LOCATIONS AND PLANTING LAYOUT WITH LANDSCAPE ARCHITECT ON SITE;
5. NO SUBSTITUTIONS OF ANY PLANT MATERIAL WILL BE APPROVED WITHOUT SUBMITTAL REVIEW AND APPROVAL BY THE CLIENT/LANDSCAPE ARCHITECT;
6. CONFIRM WITH LANDSCAPE ARCHITECT THE PRE-PURCHASE OF ANY PLANT MATERIALS;
7. ALL TREE SOIL VOLUMES TO MEET UBC STANDARDS; TREES TO BE PLANTED IN MIN. 600MM (24") SOIL DEPTH AND TWICE THE DIAMETER OF THE FOOTBALL AROUND EACH TREE. SHRUBS MIN 450MM (18") SOIL DEPTH. GROUNDCOVER MIN 300MM (12") SOIL DEPTH. LAWNS MIN 150MM (6") SOIL DEPTH.
8. FOR STREET TREES: FINAL SPACING, QUANTITY, AND TREE SPECIES TO THE SATISFACTION OF THE GENERAL MANAGER OF ENGINEERING SERVICES. NEW TREES MUST BE OF GOOD STANDARD, MINIMUM 6cm CALLIPER, AND INSTALLED WITH APPROVED ROOT BARRIERS, TREE GUARDS AND APPROPRIATE SOIL;
9. ROOT BARRIERS SHALL BE 2400mm LONG AND 450mm DEEP. PLANTING DEPTH OF FOOTBALL MUST BE BELOW SIDEWALK GRADE. CALL UBC, FOR INSPECTION AFTER TREE PLANTING COMPLETION;
10. REFER TO CIVIL FOR DRAINS.



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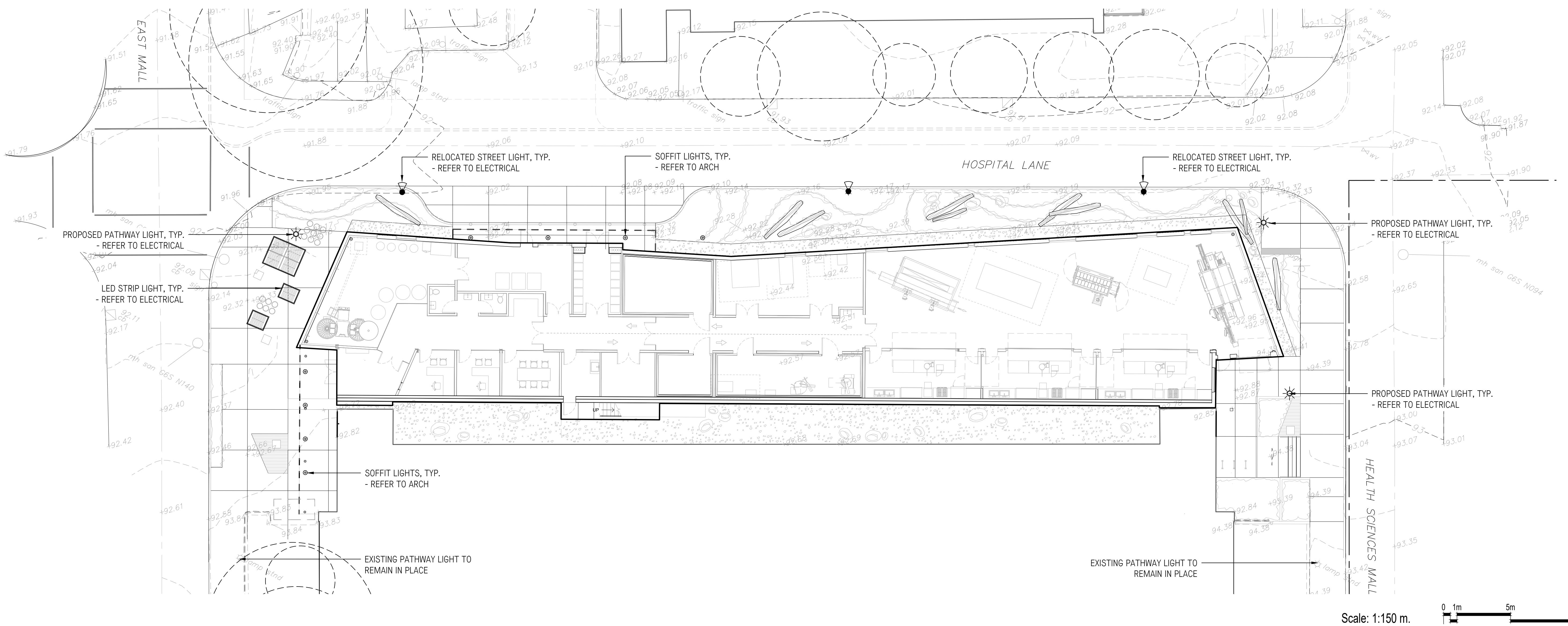
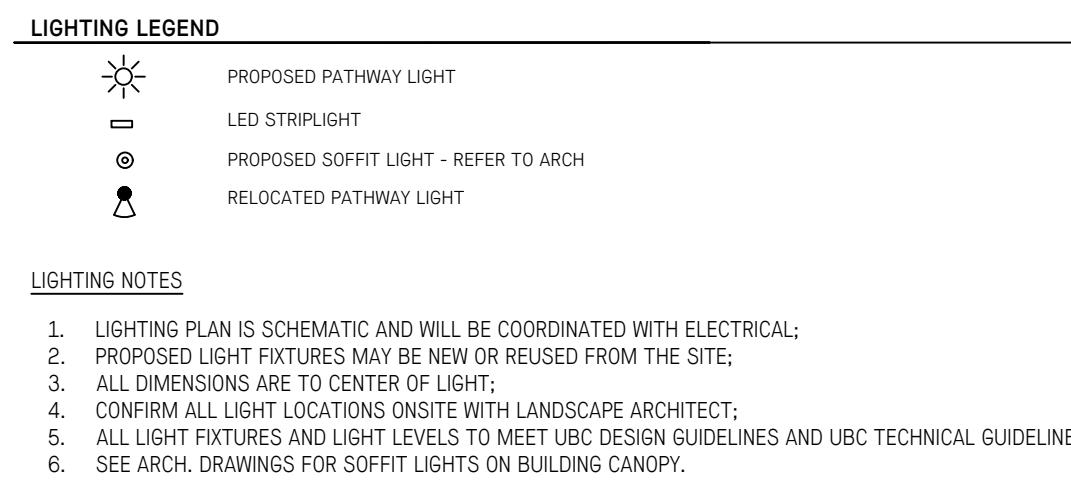
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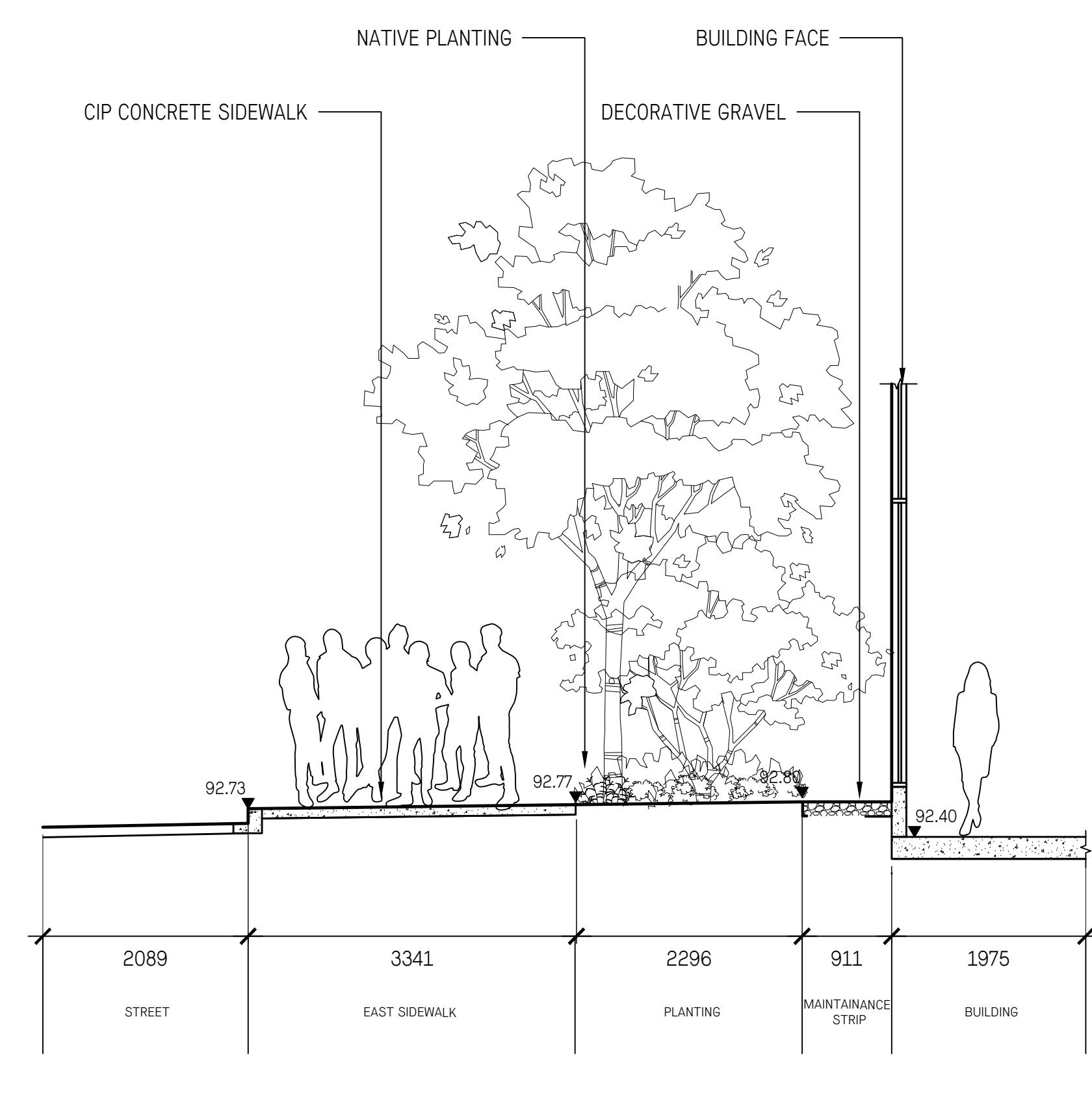
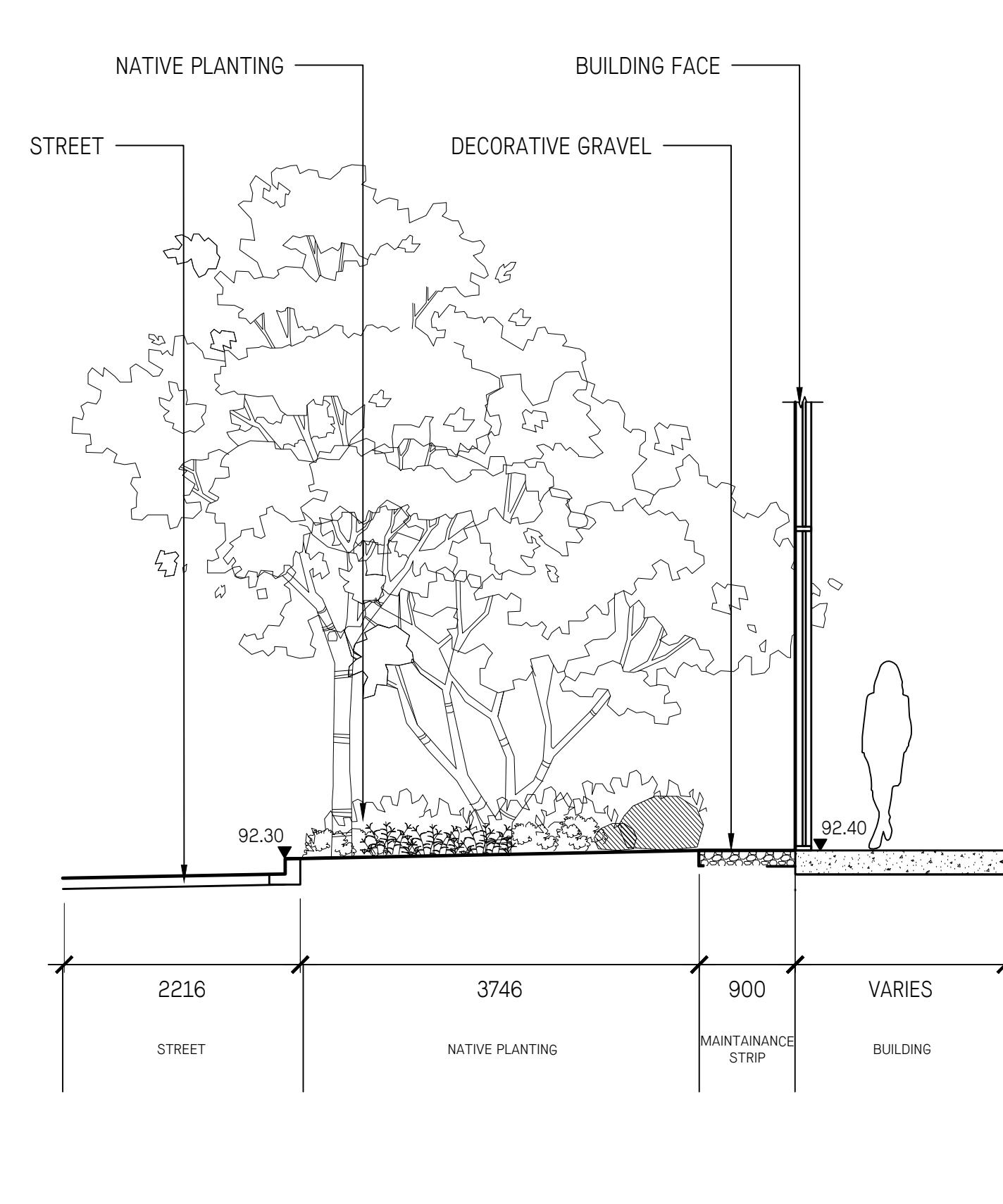
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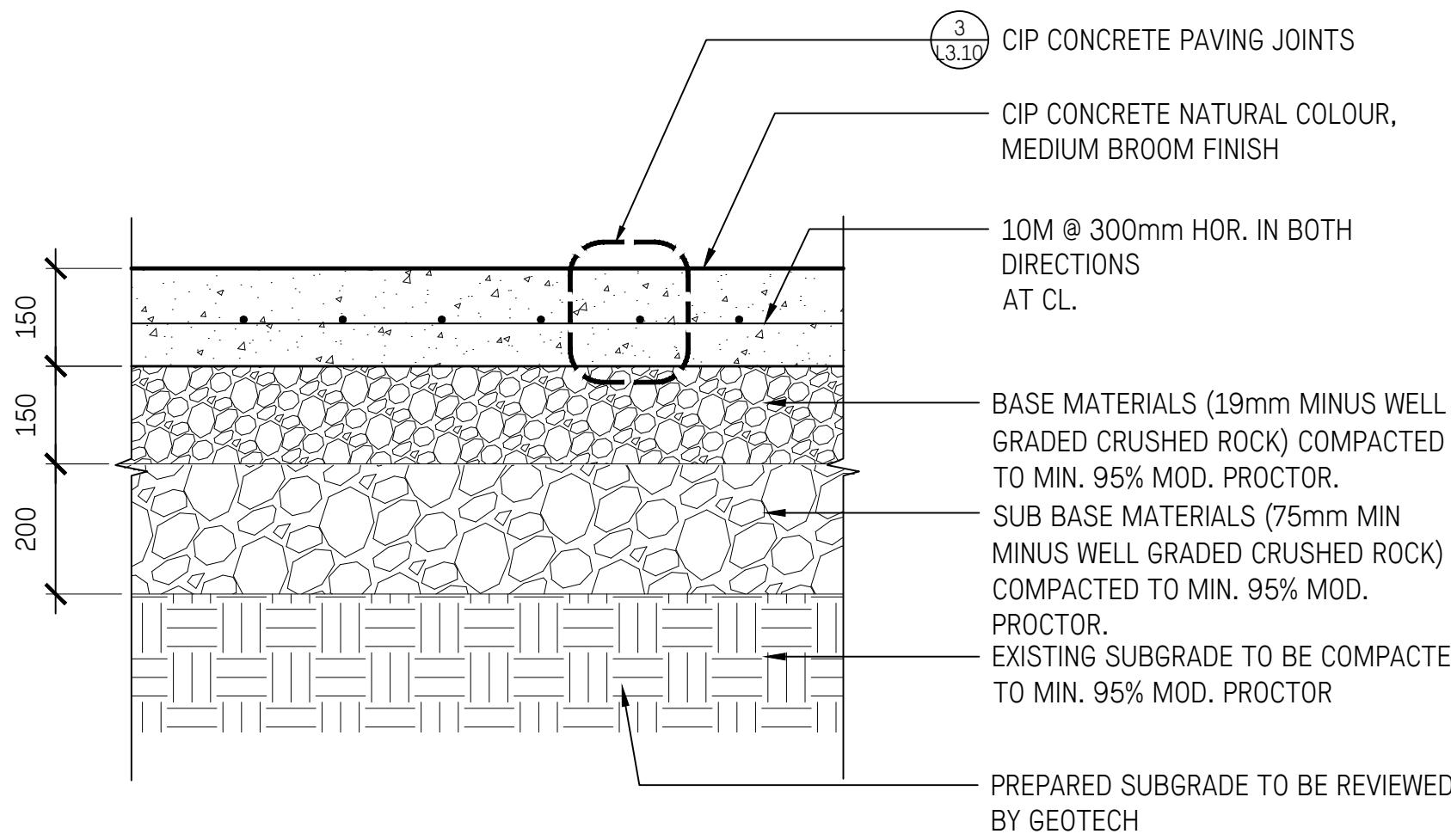
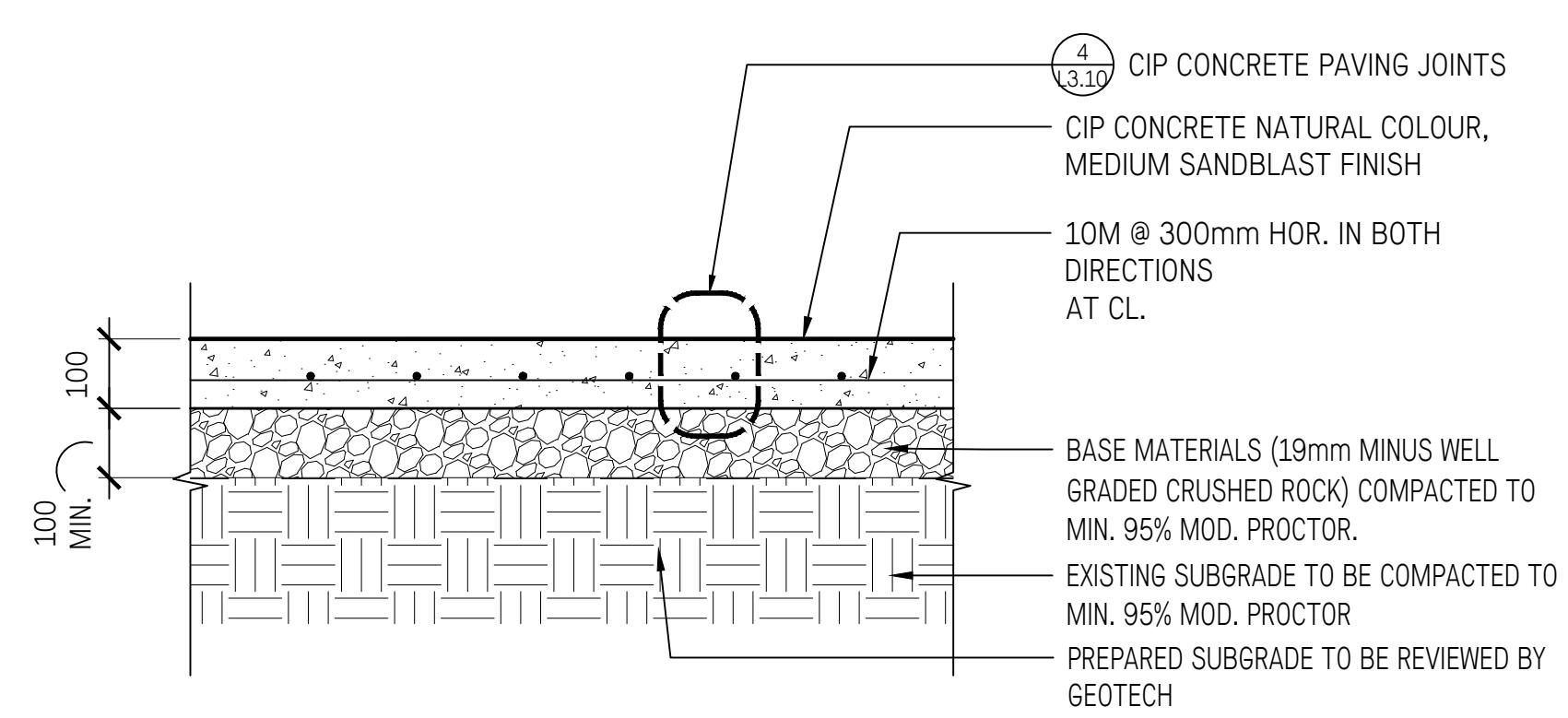
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DATE REV DESCRIPTION

L1.42
Planting Plan

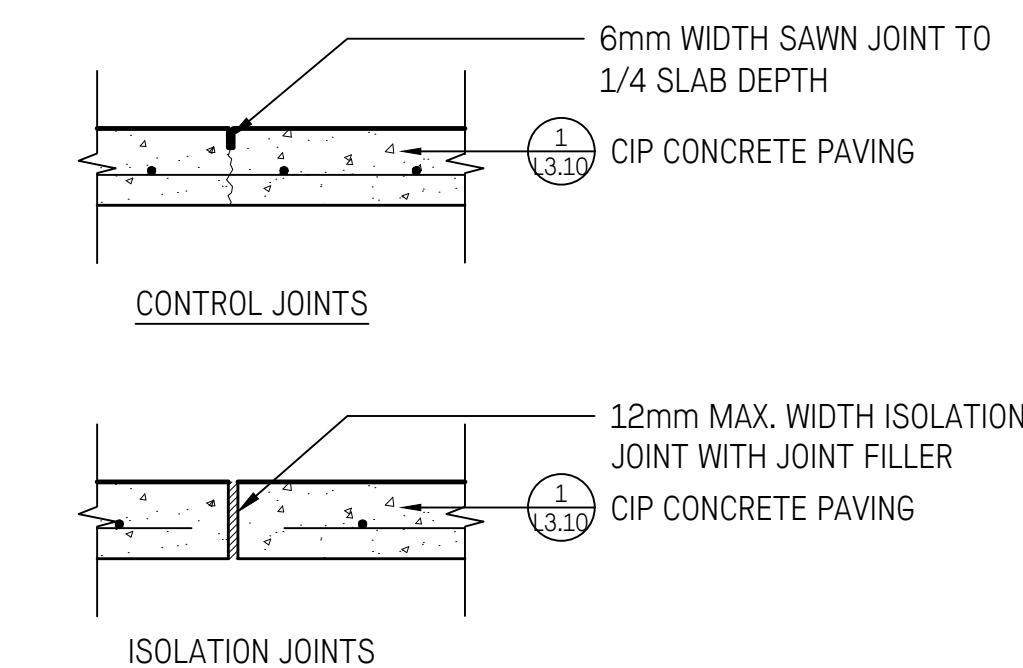






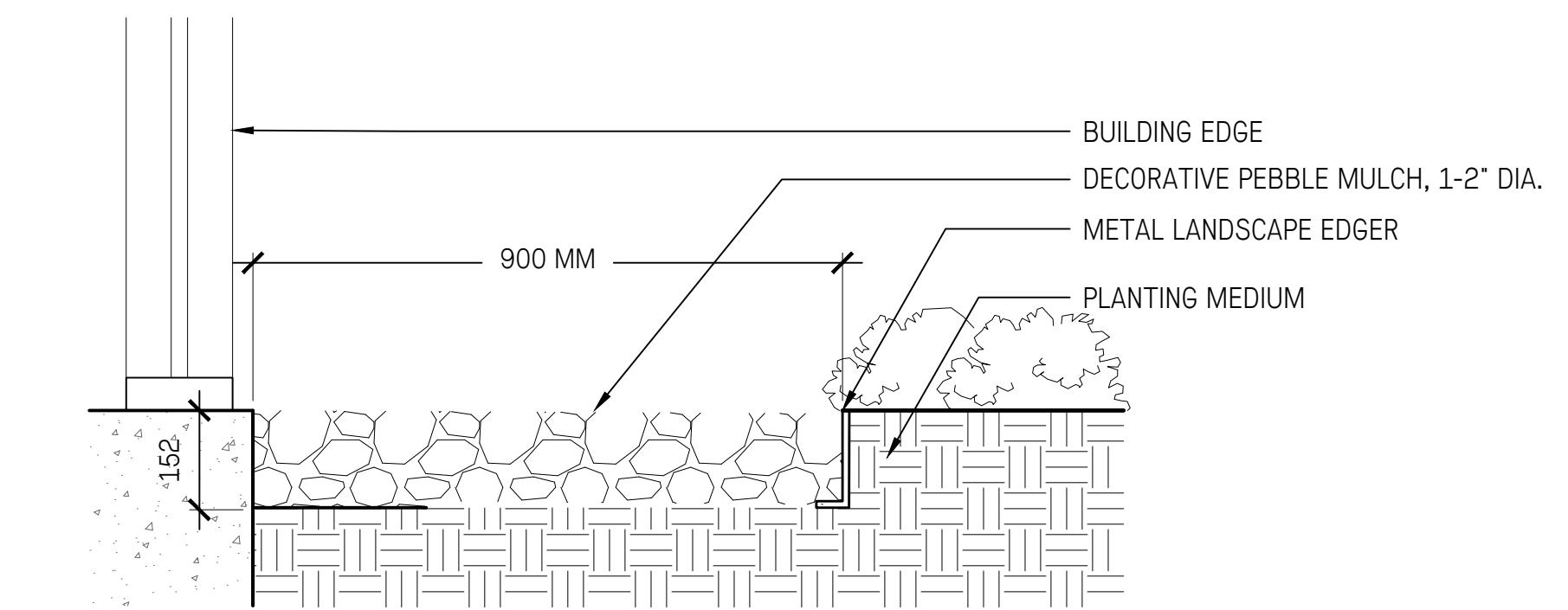
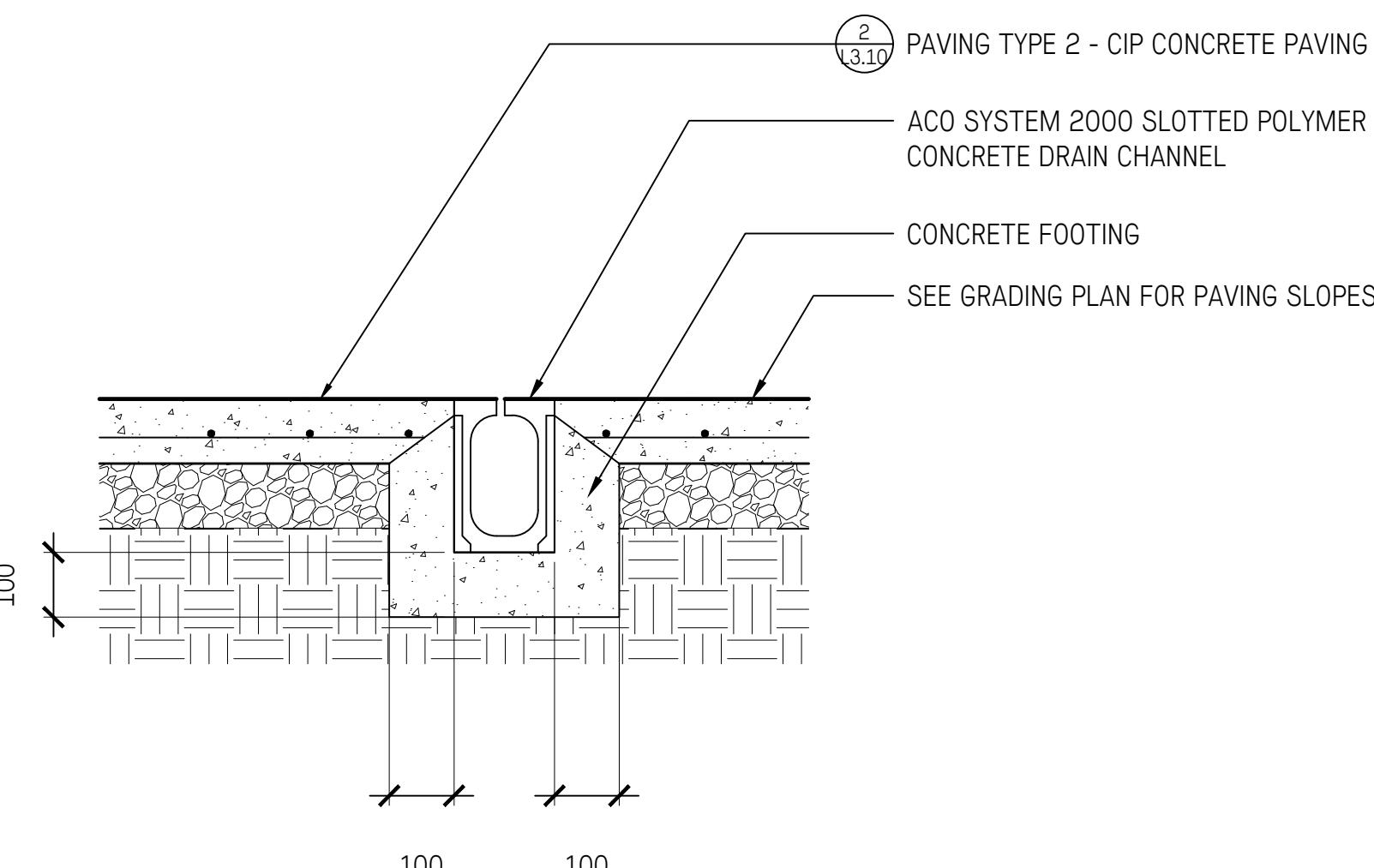
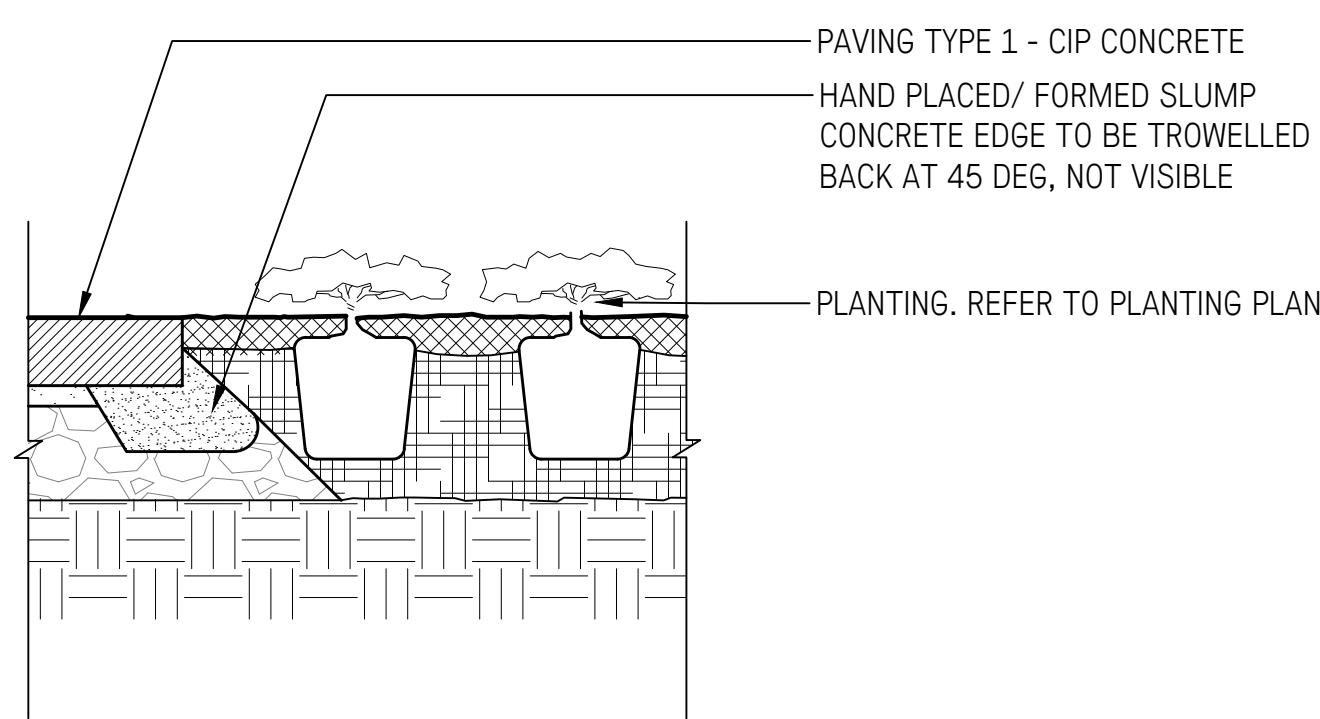
NOTES:

1. CONSTRUCT ALL CONTROL JOINTS AT CONSISTENT WIDTH;
2. CUT JOINTS BEFORE RANDOM CRACKING OCCURS;
3. C-2 SAWCUT CONTROL JOINTS WITHIN 18 HOURS OF FINISHING SLABS REFER TO LAYOUT PLAN.



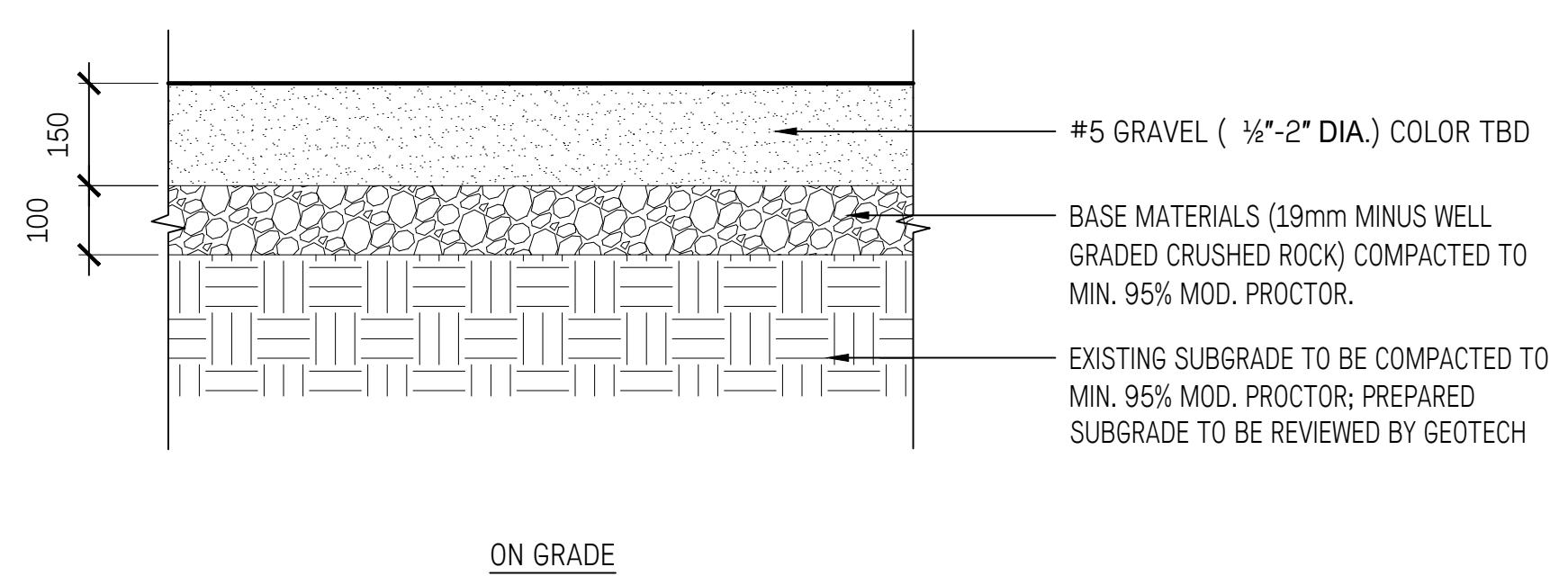
3 CIP CONCRETE PAVING JOINTS

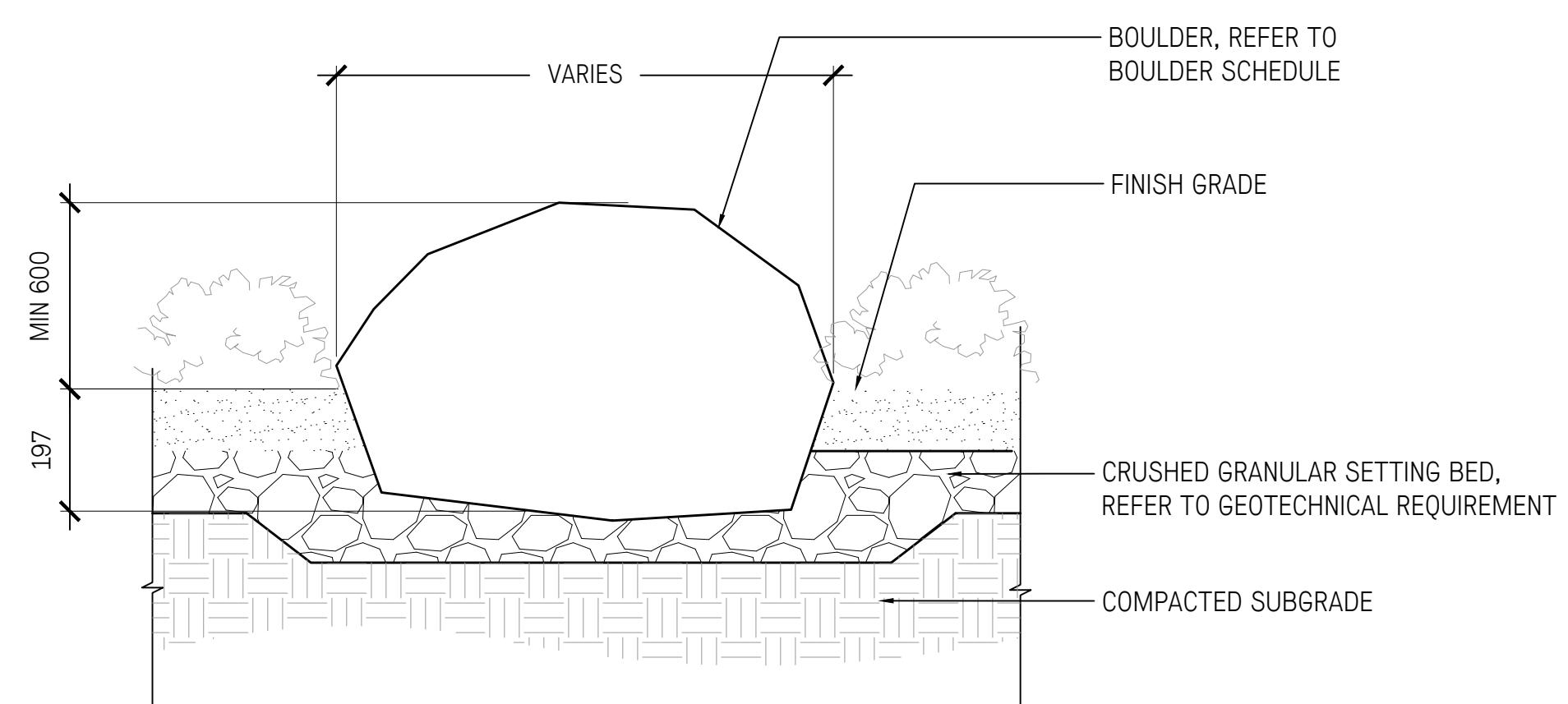
3 (L3.10) 1:10



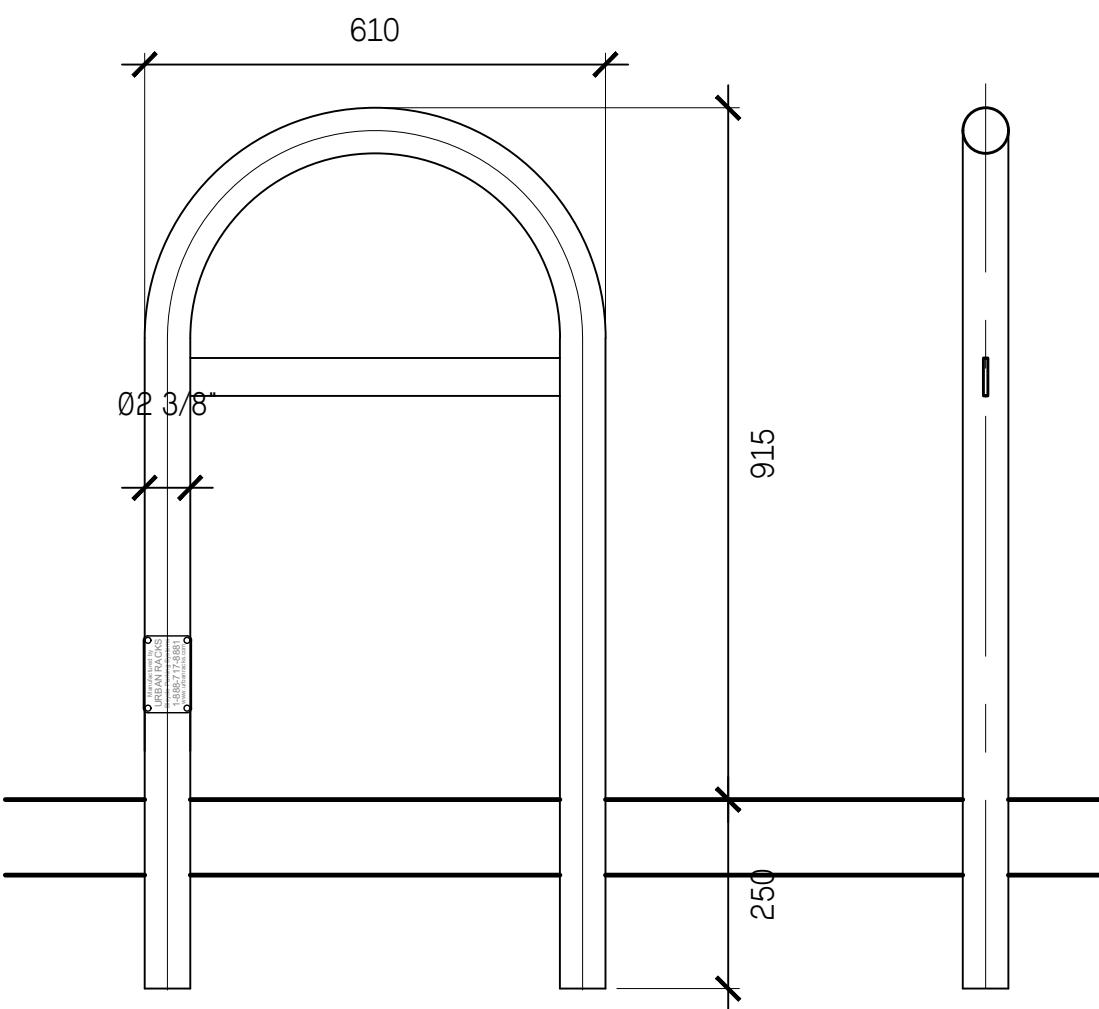
6 MAINTAINANCE GRAVEL STRIP

6 (L3.10) 1:10





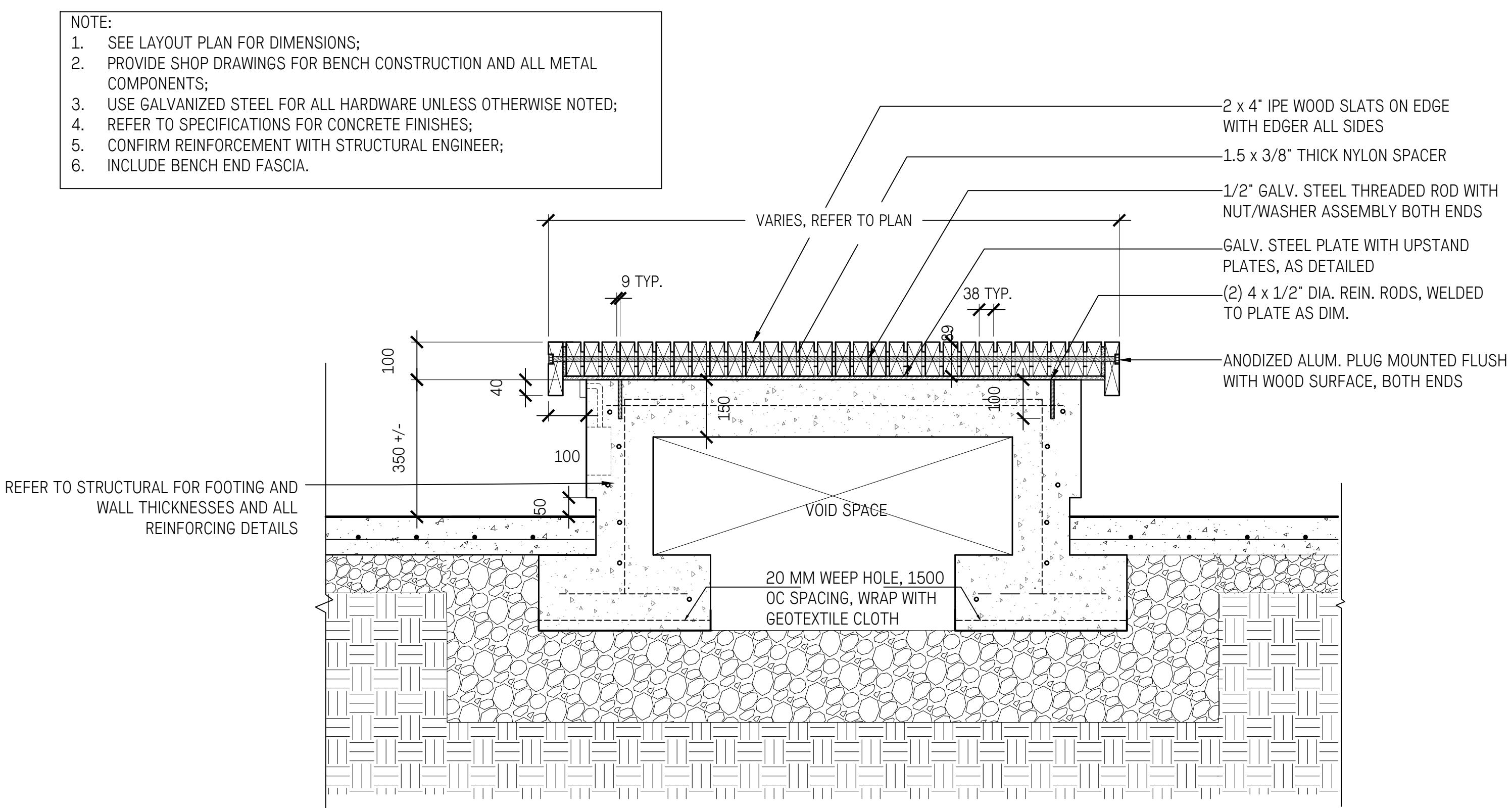
1 BOULDER
1:10
L3.20



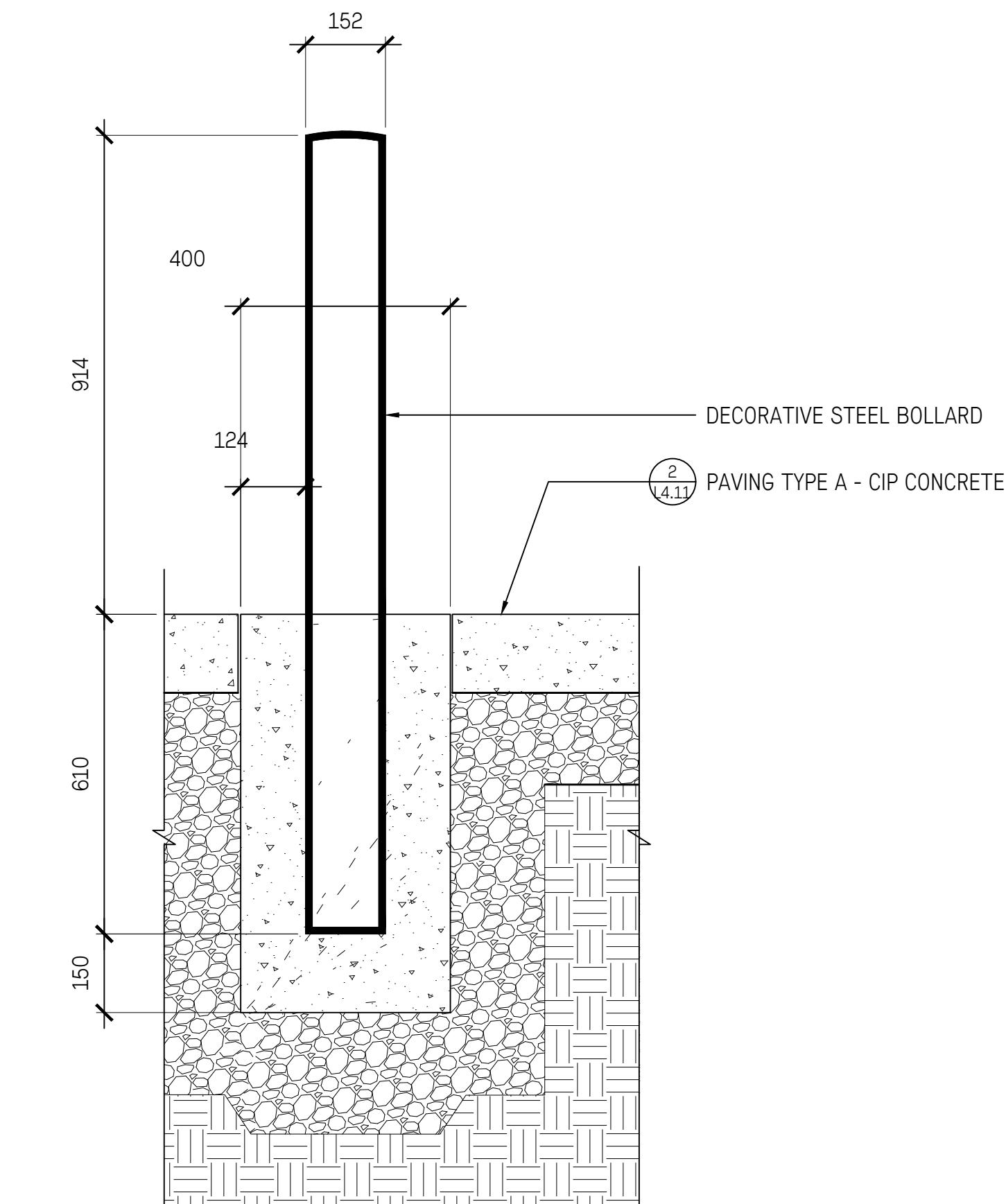
NOTES:
MODEL: UB1000-USX
MATERIAL: 2" SCHEDULE 40 STEEL PIPE WITH FLAT HORIZONTAL CROSS BAR
MOUNT: EMBEDDED INTO CONCRETE WITH 10° BELOW GRADE.
INSTALL PER MANUFACTURER'S INSTRUCTION.
FINISH: HOT-DIPPED GALVANIZED

SUPPLIER: URBAN RACKS 1-888-717-8881
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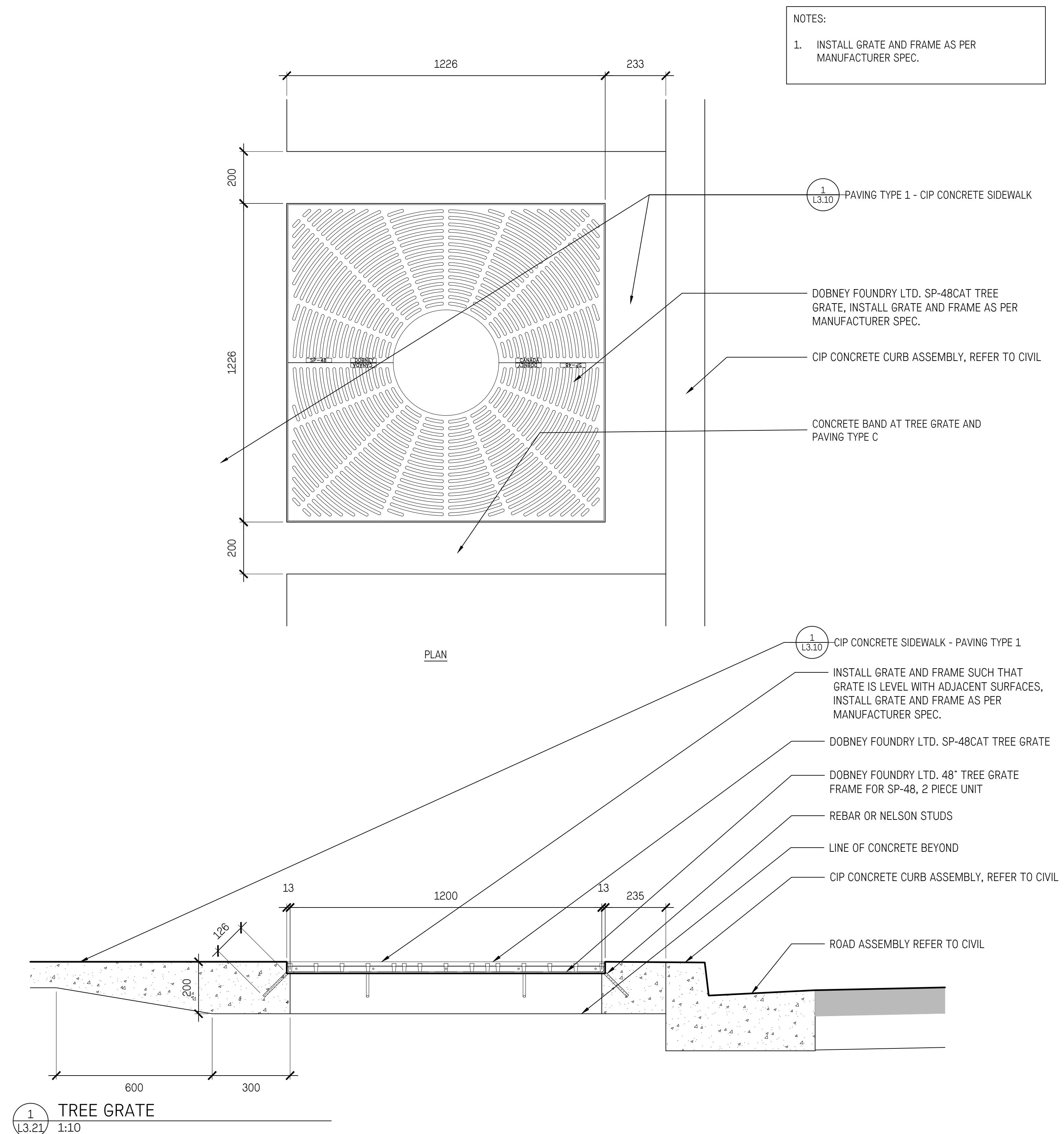
2 BIKE RACK
1:10
L3.20

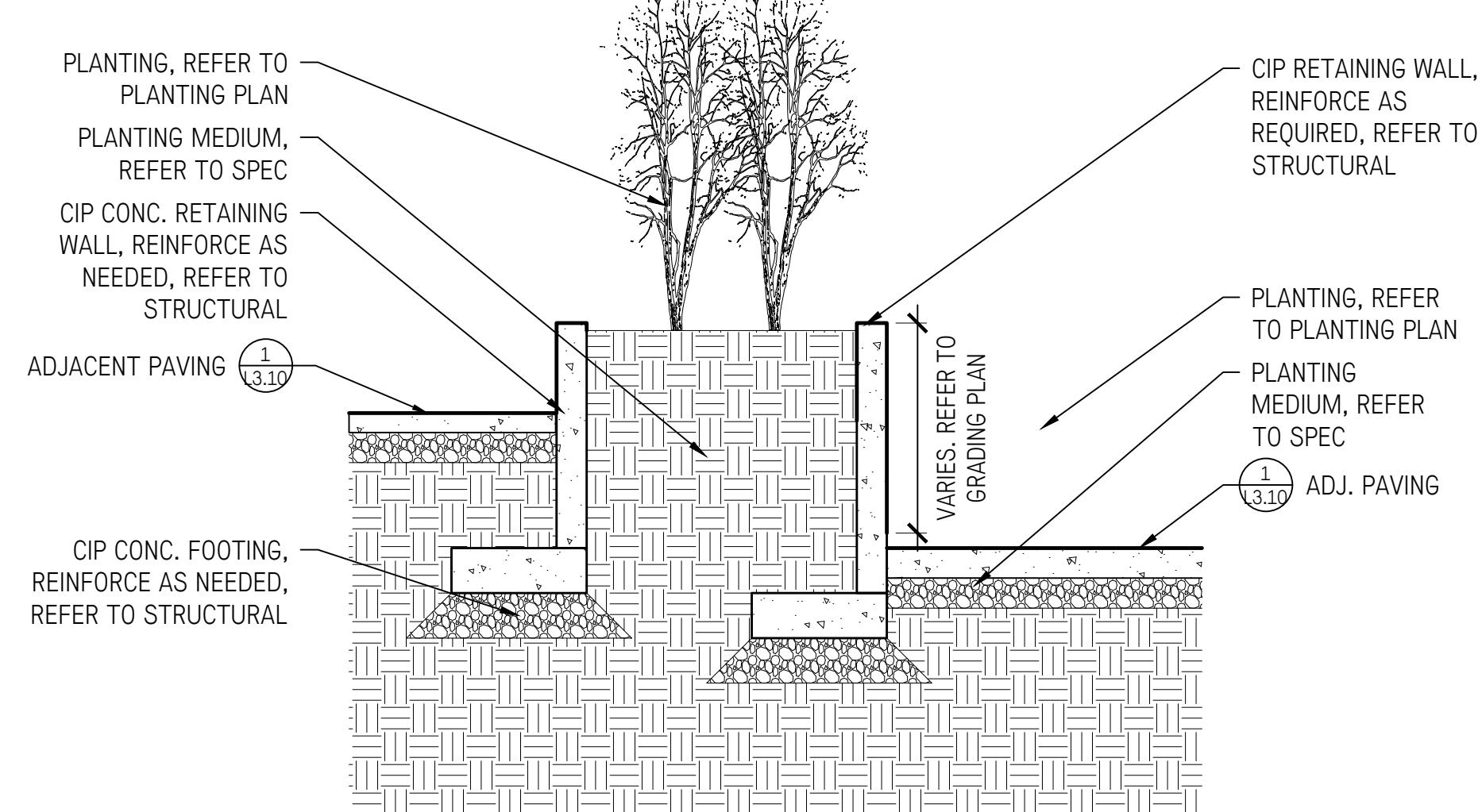


4 TIMBER SEATING PLINTH
1:10
L3.20

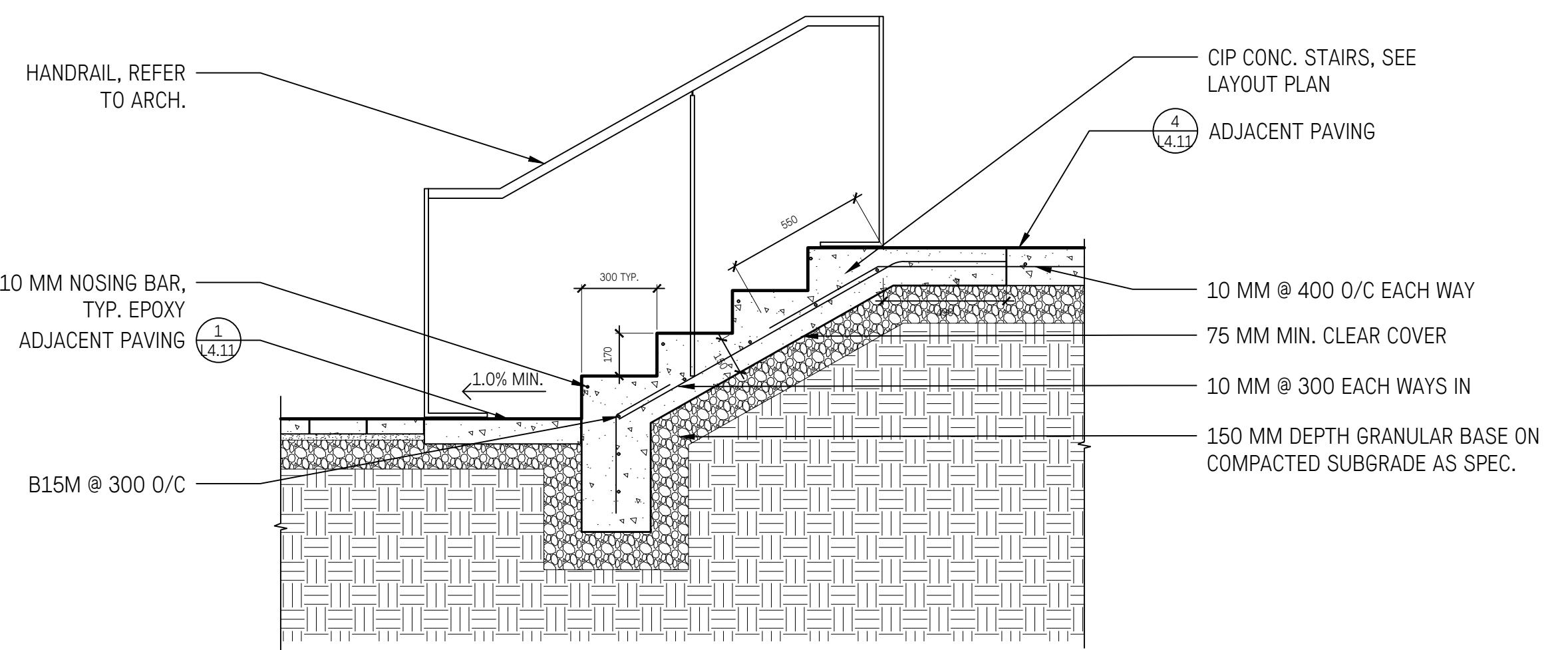


3 BOLLARDS
1:20
L3.20





1 CONCRETE PLANTERS
1.3.30 1:10



2 CONCRETE STAIRS
1.3.30 1:10

