Food and Beverage Innovation Centre Landscape Drawings

Issued For Development Permit - March 01, 2022

DRAWING LIST

L0.00 - Cover Page
L0.01 - Urban Landscape Rationale
L0.02 - Design Principles
L0.03 - Tree Management Plan
L1.01 - Concept Plan
L1.11 - Materials Plan
L1.21 - Layout Plan
L1.31 - Grading Plan
L1.41 - Planting Schedule
L1.42 - Planting Plan
L1.51 - Lighting Plan
L2.01 - Landscape Sections
L3.10 - Paving Details
L3.20 - Site Furnishing Details
L3.31 - Site Furnishing Details
L3.30 - Walls and Stairs Details
L3.40 - Planting Details
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.
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.

**INTEGRATED WITH WIDER CONTEXT**

This project is a clear landmark within the context of the Central Connector thanks 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.

**HINGE**

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.

**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**

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.

**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 bestows 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 PLAN NOTES

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

TREE MANAGEMENT LEGEND

EXISTING TREE TO BE REMOVED
EXISTING TREE TO BE RETAINED

TOTAL TREES TO BE REMOVED
TOTAL TREES TO BE RETAINED

17
0

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Food + Beverage Innovation Centre
UBC properties Trust
HS0077

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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 furnishings locations to be confirmed with landscape architect on site prior to installation.
4. Confirm sawcut patterns with landscape architect.
5. Refer to civil drawings for roadway and curb alignments and details.

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DATE
2022/03/01

REV
1

DESCRIPTION
Issued for DP
1. ALL ELEVATIONS AND SURVEYS ARE BASED ON SURVEY AND ELEVATIONS PROVIDED BY ARCHITECT AND CIVIL CONTRACTOR TO VERIFY ALL MEASUREMENTS.
2. ALL PROPOSED ELEVATIONS ARE TO TOP OF FINISHED GRADE UNLESS NOTED OTHERWISE.
3. ALL UTILITY COVERS INSIDE LANDSCAPE AREA TO BE ADJUSTED TO FINAL GRADE.
4. CONDUCT GRADING START UP MEETING WITH LANDSCAPE ARCHITECT IN FIELD TO CONFIRM GRADING DESIGNS.

**Proposed Elevation**

<table>
<thead>
<tr>
<th>DIRECTION OF SLOPE</th>
<th>BOTTOM OF WALL</th>
<th>TOP OF WALL</th>
<th>TOP OF FINISHED FLOOR</th>
<th>TOP OF STAIRS</th>
<th>BOTTOM OF STAIRS</th>
<th>TOP OF BENCH</th>
<th>BOTTOM OF BENCH</th>
<th>TOP OF CURB</th>
<th>BOTTOM OF CURB</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0%</td>
<td>TW</td>
<td>FFE</td>
<td>TB</td>
<td>TS</td>
<td>BS</td>
<td>TC</td>
<td>BC</td>
<td>TG</td>
<td></td>
</tr>
</tbody>
</table>

**Existing Site Elevation**

- Scaling Plan Notes

- Food + Beverage Innovation Centre
- UBC properties Trust
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Date: 2022/03/01
Rev: 01
Issued for DP
## TREES

<table>
<thead>
<tr>
<th>CODE</th>
<th>QTY</th>
<th>BOTANICAL / COMMON NAME</th>
<th>SIZE</th>
<th>SPACING</th>
<th>COMMENTS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG</td>
<td>5</td>
<td>Acer griseum / Paperbark Maple</td>
<td>3.0m ht.</td>
<td>B&amp;B, Straight Trunk, Uniform Branching, 1.5m std.</td>
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<tr>
<td>BB</td>
<td>8</td>
<td>Betula jacquemontii / Whitebarked Himalayan Birch</td>
<td>2m ht.</td>
<td>B&amp;B, Multi-Stemmed, Dense Tree</td>
<td></td>
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<tr>
<td>BR</td>
<td>10</td>
<td>Betula nigra / River Birch</td>
<td>3.0m ht.</td>
<td>B&amp;B, Straight Trunk, Uniform Branching, 1.5m std.</td>
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<td>BC</td>
<td>5</td>
<td>Betula nigra 'Quy' TM / Heritage River Birch</td>
<td>2m ht.</td>
<td>B&amp;B, Dense, Uniform Tree</td>
<td></td>
<td></td>
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<tr>
<td>CE</td>
<td>5</td>
<td>Cornus x 'Eddie's White Wonder' / Eddie's White Wonder Dogwood</td>
<td>2m ht.</td>
<td>B&amp;B, Straight Trunk, Uniform Branching, 1.5m std.</td>
<td></td>
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<tr>
<td>Fr</td>
<td>2</td>
<td>Prunus yeomianim / 'Selkirk' / Daybreak Flowering Cherry</td>
<td></td>
<td>B&amp;B, Specimen, Densely Branched</td>
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## SHRUBS

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<tr>
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<tbody>
<tr>
<td>Au</td>
<td>101</td>
<td>Arctostaphylos uva-ursi / Kinnikinnick</td>
<td>#2 Pot</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cs</td>
<td>13</td>
<td>Cornus stolonifera / Red Twig Dogwood</td>
<td>#2 Pot</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gi</td>
<td>4</td>
<td>Gaultheria shallon / Salal</td>
<td>#2 Pot</td>
<td>45cm</td>
<td>Well Established</td>
<td></td>
</tr>
<tr>
<td>Mc</td>
<td>27</td>
<td>Mahonia aquifolium / Compacta / Compact Oregon Grape</td>
<td>#2 Pot</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>R1</td>
<td>22</td>
<td>Rubus parviflorus / Thimbleberry</td>
<td>#2 Pot</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Rs</td>
<td>53</td>
<td>Rubus spectabilis / Salmonberry</td>
<td>#3 Pot</td>
<td></td>
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<tr>
<td>Sr</td>
<td>14</td>
<td>Shepherdia rotundifolia / Roundleaf Buffaloberry</td>
<td>#2 Pot</td>
<td></td>
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<tr>
<td>SaE</td>
<td>7</td>
<td>Symphoricarpos albus / Common White Snowberry</td>
<td>#2 Pot</td>
<td>75cm</td>
<td>Well Established</td>
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<tr>
<td>Vo</td>
<td>13</td>
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<td>#3 Pot</td>
<td>120cm</td>
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<tr>
<td>Vo3</td>
<td>10</td>
<td>Viburnum opulus / SHRUBX90 TM / Oh Canada Cranberrybush</td>
<td>#3 Pot</td>
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<td>Bs</td>
<td>10</td>
<td>Blechnum spicant / Deer Fern</td>
<td>#2 Pot</td>
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<tr>
<td>De</td>
<td>6</td>
<td>Dryopteris erythropora / Autumn Fern</td>
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PLANTING PLAN NOTES

1. All plant materials to be supplied in compliance with the BCSLA (British Columbia Society of Landscapers) Standards. Refer to the latest edition of the BCSLA Landscape Standard.
2. All street trees to meet the City of Vancouver Street Tree Guidelines. Must be approved by UBC.
3. Area of search for plant materials: 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 materials will be approved without submission and approval by the client/language 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 a minimum of 600mm (24") soil depth and twice the diameter of the rootball around each tree. Shrubs in 450mm (18") soil depth. Groundcovers in 300mm (12") soil depth. Lawns in 150mm (6") soil depth. Root barriers to be installed at the appropriate depth to prevent root intrusion.
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 caliper, and installed with approved root barriers, tree guards, and appropriate soil.
9. Root barriers shall be 2400mm long and 450mm deep. Planting depth of rootball must be below sidewalk grade. Call UBC for inspection after tree planting completion.
10. Refer to Civil for drains.

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Scale: 1:150 m.

Date: 2022/03/01
Revision: 1
Description: Issued for DP
1. LIGHTING PLAN IS SCHEMATIC AND WILL BE COORDINATED WITH ELECTRICAL;
2. PROPOSED LIGHT FIXTURES MAY BE NEW OR REUSED FROM THE SITE;
3. ALL DIMENSIONS ARE TO CENTER OF LIGHT;
4. CONFIRM ALL LIGHT LOCATIONS ONSITE WITH LANDSCAPE ARCHITECT;
5. ALL LIGHT FIXTURES AND LIGHT LEVELS TO MEET UBC DESIGN GUIDELINES AND UBC TECHNICAL GUIDELINES;
6. SEE ARCH. DRAWINGS FOR SOFFIT LIGHTS ON BUILDING CANOPY.
EXISTING SUBGRADE TO BE COMPACTED TO MIN. 95% MOD. PROCTOR.
BASE MATERIALS (19mm MINUS WELL GRADED CRUSHED ROCK) COMPACTED TO MIN. 95% MOD. PROCTOR.
CIP CONCRETE NATURAL COLOUR, MEDIUM BROOM FINISH
PREPARED SUBGRADE TO BE REVIEWED BY GEOTECH
10M @ 300mm HOR. IN BOTH DIRECTIONS AT CL.
ON GRADE - VEHICULAR USE

PAVING TYPE 1 - CIP CONCRETE ON GRADE

PAVING TYPE 2 - CIP CONCRETE ON GRADE

CIP CONCRETE PAVING JOINTS

BASE MATERIALS (38mm MINUS WELL GRADED CRUSHED ROCK) COMPACTED TO MIN. 95% MOD. PROCTOR.
SUB-BASE MATERIALS (75mm MINUS WELL GRADED CRUSHED ROCK) COMPACTED TO MIN. 95% MOD. PROCTOR.
EXISTING SUBGRADE TO BE COMPACTED TO MIN. 95% MOD. PROCTOR.
PAVING JOINTS AS SHOWN

TRENCH DRAIN

ACO SYSTEM 2000 SLOTTED POLYMER CONCRETE DRAIN CHANNEL
CONCRETE FOOTING
SIDE GRADING PLANS FOR PAVING SLIPES

CONCRETE HIDDEN EDGE RESTRAINT AT PLANTING EDGE

MMAINTENANCE GRAVEL STRIP

PAVING TYPE 4 - PAINTED GRAVEL

#5 GRAVEL (1/2"-2" DIA) COLOR TBD
BASE MATERIALS (38mm MINUS WELL GRADED CRUSHED ROCK) COMPACTED TO MIN. 95% MOD. PROCTOR.
EXISTING SUBGRADE TO BE COMPACTED TO MIN. 95% MOD. PROCTOR.
SIDE MATERIALS TO BE COMPACTED TO MIN. 95% MOD. PROCTOR.
PAVING JOINTS AS SHOWN

MMAINTENANCE GRAVEL STRIP

TRENCH DRAIN

ACO SYSTEM 2000 SLOTTED POLYMER CONCRETE DRAIN CHANNEL
CONCRETE FOOTING
SIDE GRADING PLANS FOR PAVING SLIPES

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EXISTING SUBGRADE TO BE COMPACTED TO MIN. 95% MOD. PROCTOR.
SIDE MATERIALS TO BE COMPACTED TO MIN. 95% MOD. PROCTOR.
PAVING JOINTS AS SHOWN

MMAINTENANCE GRAVEL STRIP
**Notes:**

- **Model:** UB1000-USX
- **Material:** 2” Schedule 40 Steel Pipe with Flat Horizontal Cross Bar
- **Mount:** EMBEDDED INTO CONCRETE WITH 10” BELOW GRADE.
- **Finish:** HOT-DIPPED GALVANIZED
- **Supplied by:** URBAN RACKS 1-888-717-8881
  WWW.URBANRACKS.COM

**Model:** UB1000-USX

**Description:** DECORATIVE STEEL BOLLARD

**Specifications:**

- **Size:** 2 x 4” IPE WOOD SLATS ON EDGE
- **Material:** ANODIZED ALUM. PLUG MOUNTED FLUSH WITH WOOD SURFACE, BOTH ENDS
- **Spacers:** 1/2" GALV. STEEL THREADED ROD WITH NUT/WASHER ASSEMBLY BOTH ENDS
- **Hinges:** GALV. STEEL PLATE WITH UPSTAND PLATES, AS DETAILED
- **Reinforcement:** (2) 4 x 1/2" DIA. REIN. RODS, WELDED TO PLATE AS DIM.
- **Drainage:** 20 MM WEEP HOLE, 1500 OC SPACING, WRAP WITH GEOTEXTILE CLOTH

**NOTES:**

1. SEE LAYOUT PLAN FOR DIMENSIONS
2. PROVIDE SHOP DRAWINGS FOR BENCH CONSTRUCTION AND ALL METAL COMPONENTS
3. USE GALVANIZED STEEL FOR ALL HARDWARE UNLESS OTHERWISE NOTED
4. REFER TO SPECIFICATIONS FOR CONCRETE FINISHES
5. CONFIRM REINFORCEMENT WITH STRUCTURAL ENGINEER
6. INCLUDE BENCH END FACIA

**Drawing by:** Human Studio  |  Architecture + Urban Design

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**DATE** 2022/03/01  **REV** 01  **Issued for:** DP

**Food + Beverage Innovation Centre**

**UBC Properties Trust**

**HS0077**
1. INSTALL GRATE AND FRAME AS PER MANUFACTURER SPEC.

DOBNEY FOUNDRY LTD. SP-48 CAT TREE GRATE, INSTALL GRATE AND FRAME AS PER MANUFACTURER SPEC.

CIP CONCRETE CURB ASSEMBLY, REFER TO CIVIL

CONCRETE BAND AT TREE GRATE AND FRAME TYPE C

DOBNEY FOUNDRY LTD. SP-48 CAT TREE GRATE, INSTALL GRATE AND FRAME AS PER MANUFACTURER SPEC.

CIP CONCRETE CURB ASSEMBLY, REFER TO CIVIL

CONCRETE BAND AT TREE GRATE AND FRAME TYPE C

NOTE:

- INSTALL GRATE AND FRAME AS PER MANUFACTURER SPEC.
CIP CONCRETE PATIO PLANTER

ADJACENT PAVING

CIP CONCRETE RETAINING WALL, REINFORCE AS NEEDED, REFER TO STRUCTURAL

CIP CONCRETE FOOTING, REINFORCE AS NEEDED, REFER TO STRUCTURAL

PLANTING, REFER TO PLANTING PLAN

PLANTING MEDIUM, REFER TO SPEC

PLANTING, REFER TO PLANTING PLAN

PLANTING MEDIUM, REFER TO SPEC

CONCRETE STAIRS

CONCRETE PLANTERS

Food + Beverage Innovation Centre
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Walls and Stairs
Details

2022/03/01    01        Issued for DP

DATE    REV    DESCRIPTION
**PLANTING DETAILS**

**SHRUB/TREE PLANTING**

- **MIN. 450 SHRUBS; MIN. 900 TREES**
- **SHRUB/TREE PLANTING**
- **SCARIFY SURFACE OF SUBGRADE PRIOR TO GROWING MEDIUM INSTALLATION**
- **GROWING MEDIUM**
- **MULCH**
- **COMPACTED SUBGRADE**
- **FINISH GRADE**

**TREE PLANTING - ON GRADE**

- **MULCH**
- **SCARIFY SURFACE OF SUBGRADE PRIOR TO GROWING MEDIUM INSTALLATION**
- **SCARIFY SUBGRADE, COMPACTED SUBGRADE ONLY AT BOTTOM OF ROOTBALL**
- **SET CROWN OF ROOTBALL 25mm ABOVE FINISH GRADE AND REMOVE BURLAP AND TWINE FROM TOP HALG OF ROOTBALL**
- **FINISH GRADE**
- **PLANTING MEDIUM, SEE SPECIFICATIONS**
- **MULCH, SEE SPECIFICATIONS**

**SHRUB PLANTING - ON GRADE**

- **MULCH**
- **SCARIFY SURFACE OF SUBGRADE PRIOR TO GROWING MEDIUM INSTALLATION**
- **SCARIFY SUBGRADE, COMPACTED SURFACE ONLY AT BOTTOM OF ROOTBALL**
- **SET CROWN OF ROOTBALL 1" ABOVE FINISH GRADE AND REMOVE BURLAP AND TWINE FROM TOP HALG OF ROOTBALL**
- **FINISH GRADE**
- **MULCH**
- **FINISH GRADE**

**GROUND COVER PLANTING**

- **GROUNDCOVER PLANTING**
- **SOIL PROFILES ON GRADE**
- **TREE PLANTING - ON GRADE**
- **SHRUB PLANTING - ON GRADE**
- **GROUND COVER PLANTING**

**SPACING PLAN**

- **DISTANCES FROM EDGE IS HALF THE SPECIFIED ON-CENTRE SPACING**
- **TRIANGULAR SPACING AT SPECIFIED ON-CENTRE DISTANCE, REFER TO PLANT SCHEDULE**
- **PLANT CENTRE**
- **ROW DISTANCE FROM EDGE IS HALF THE SPECIFIED ON-CENTRE SPACING**
- **SIDEWALK EDGE**
- **GROUNDCOVER AREA**

- **SOIL PROFILES ON GRADE**
- **TREE PLANTING - ON GRADE**
- **SHRUB PLANTING - ON GRADE**
- **GROUND COVER PLANTING**