Legacy Art Project

Detailed Design

September 28th, 2022

Project Description & Background

Legacy Art Project

Proponent: Legacy Art Project Toronto
Design Team: Jon Sasaki, DTAH, Trophic Design, Art + Public
Review Stage: Detailed Design

Project Background

- The Legacy Art Project is a citizen-funded public space initiative dedicated to the spirit of courage, determination, and action that Terry Fox embodied.
- This project entitled, "We are Shaped by the Obstacles We Face," is a permanent, integrated, public art, and landscape architecture installation that strives to convey Terry Fox's optimism in the face of challenge in throughout the Marathon of Hope in an experiential way.
- Art piece selected through an open call competition and a jury selection process. Art piece is not here for Panel review.
- Surrounding landscape was designed in concert with the art piece and part of what was selected by the jury. The landscape concept is not for Panel review.
- Panel review should focus on ensuring the landscape design supports and reinforces the artistic conception of the project and create a great public space.

Design Team

- Lead Artist: Jon Sasaki
- Landscape Architect: DTAH
- Public Art Consultant: Art + Public
- Landscape design planting consultant: Trophic Design

Project Update

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Waterfront Toronto Role

- Delivery Agent
  - Permitting / Surveying
  - Consturction Procurement
  - Construction Delivery
  - Project Handover to EDC / PF&R

Project Timeline

- July 2018 – City Council (Motion of Authorization)
- July 2021 – DRP (Issued ID)
- September 2021 – DRP (Schematic Design)
- September 2022 – DRP (Detailed Design)
- Winter 2022- Tendering
- Spring 2023 - Kickoff Construction
- Fall 2023 – Opening

Site Context

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Project Approval Stage

DRP Stream 2: Public land

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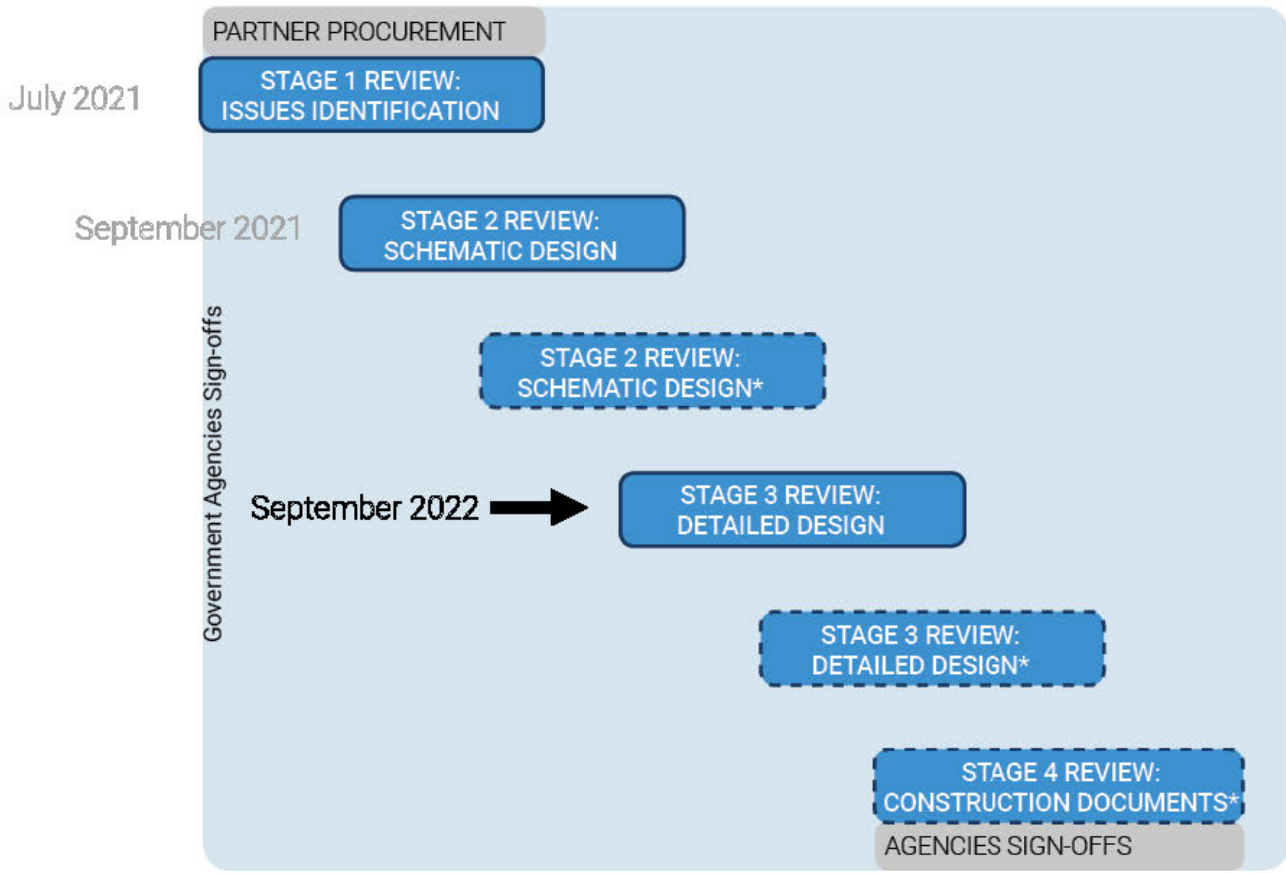

Recap from September 2021

Schematic Design Consensus Comments

Legacy Art Project

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General

- Strong support for the experiential quality of moving through the path – a unique experience celebrating Terry Fox.
- Supportive of the design's ability to connect Queens Quay with the water.

Landscape

- Continue to refine the northeast entrance to the path and create a welcoming entry.
- Consider shifting the entry northward and avoid having to remove the existing tree.
- Refine the position of the benches in relation to the sculptures, consider not having benches on the south side of the path.
- Select robust planting species and consider seasonality.
- Further develop the lighting strategy as a great way to activate the park in winter months.
- Consider how the sculptures will meet the ground and provide base details at the next review.
- Work with local community groups and recruit volunteers to help monitor, maintain, and care for the conditions of the landscape, like the Music Garden.

Areas for Panel Consideration
Waterfront Toronto

Legacy Art Project

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Do the landscape details interface well with the site edges and adjacent public realm?

- Bench and retaining wall detail in relation to existing concrete retailing wall
- Paving material and ground marking strategy
- Design of the bench: wood selection, lighting integration

Does the lighting strategy support the landscape experience?

Do the planting and grading plans ensure a successful year-round experience?

Areas for Panel Consideration
Parks, Forestry & Recreation

- Assess the pathway width and confirm that AODA requirements at the pinch points adjacent to the art pieces are addressed
- The grading and drainage for the pathway will have to be carefully resolved through the detailed design to make sure that any surface drainage from the abutting landforms is conveyed off the pathway;
- Planting Strategy may impact the views of the artwork so consideration of this is important, i.e. is the design intent to have unobstructed views from Queens Quay?
- Consider durability of materials (i.e. lighting, site furnishings, markings on pavement)
- The landscape design is subject to review and approval process with the City.

We Are Shaped by the Obstacles We Face
by Jon Sasaki and DTAH

A Public Art + Landscape Project Inspired by Terry Fox on Toronto's Waterfront,
Presented by The Legacy Art Project

Design Development DRP- September 2022

LEGACY ART PROJECT TORONTO
Inspired by Terry Fox

ART + PUBLIC UnLtd

Jon Sasaki

dtah

TROPHIC DESIGN

irc GROUP
A Rimkus Company

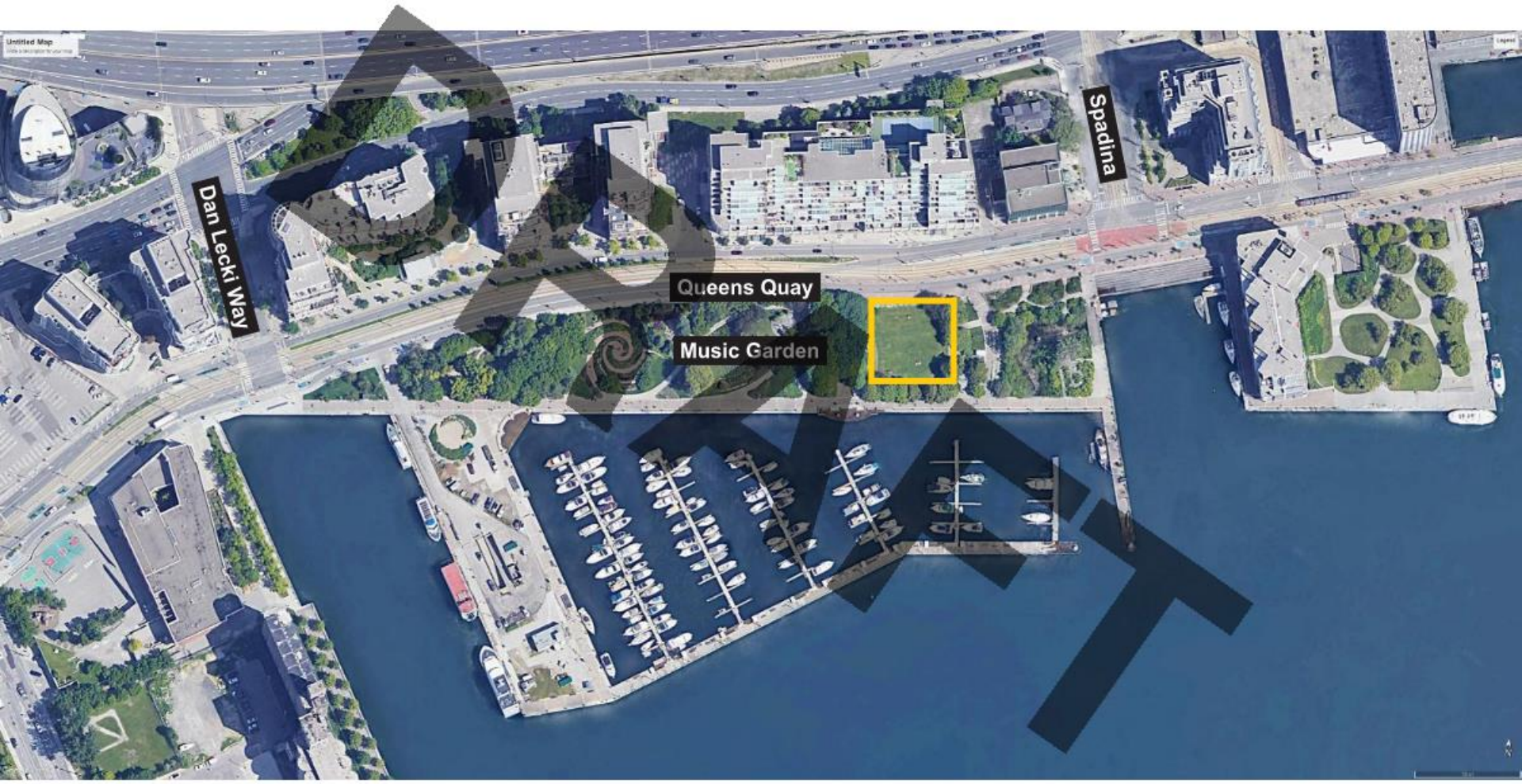
DPM Energy

What we heard...

City Meeting- June 2022

- Increase 1.5m clearance on pathway to **2.1m**
- Specifications for light fixtures to be reviewed and confirmed
- Consider **maintenance** in proposed planting scheme
- Bench at western pathway to be removed to allow access to viewing platform
- Location of electrical power source confirmed by City staff post meeting

Site Context



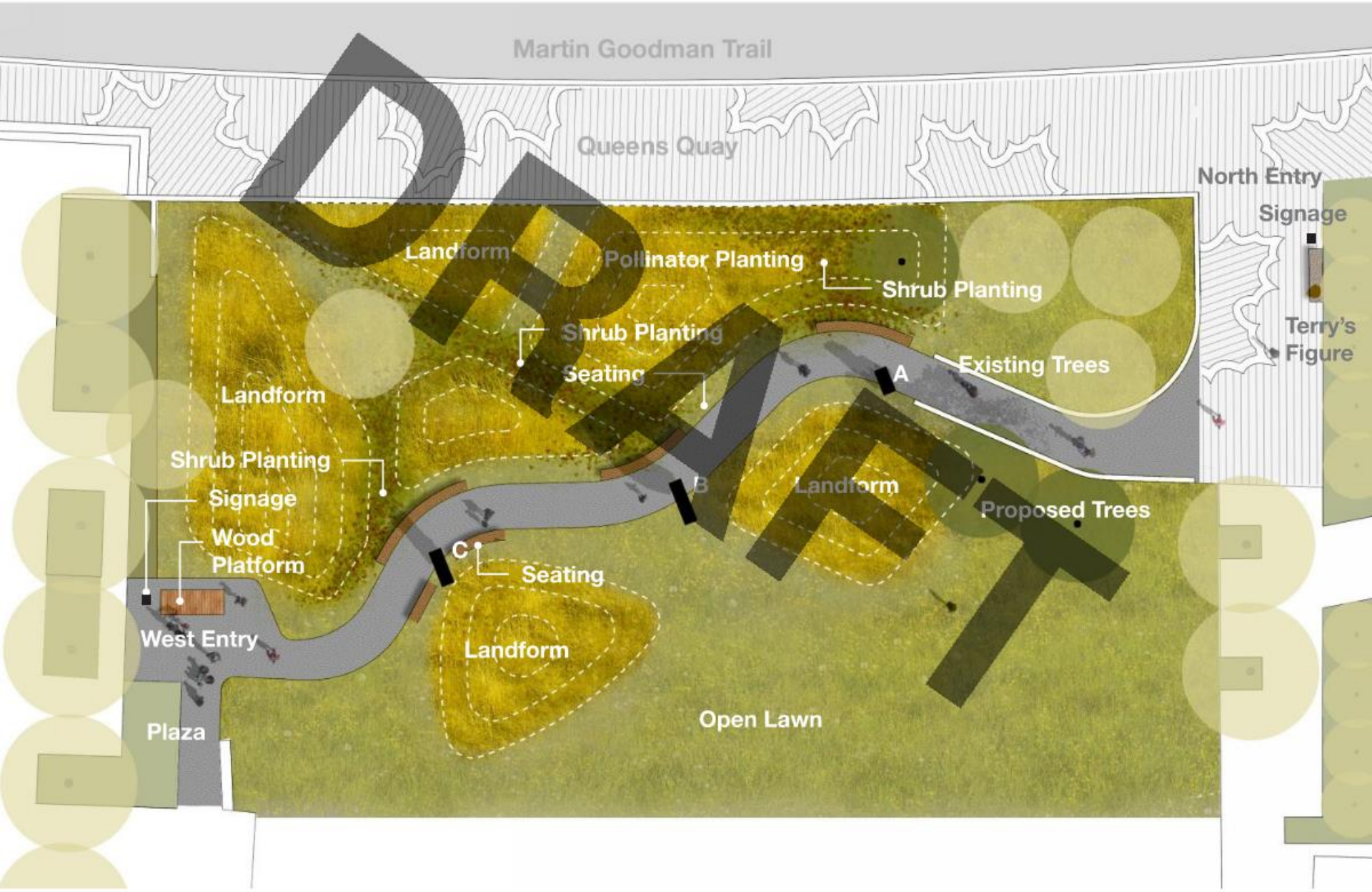
Existing Site

View looking south-west from QQ

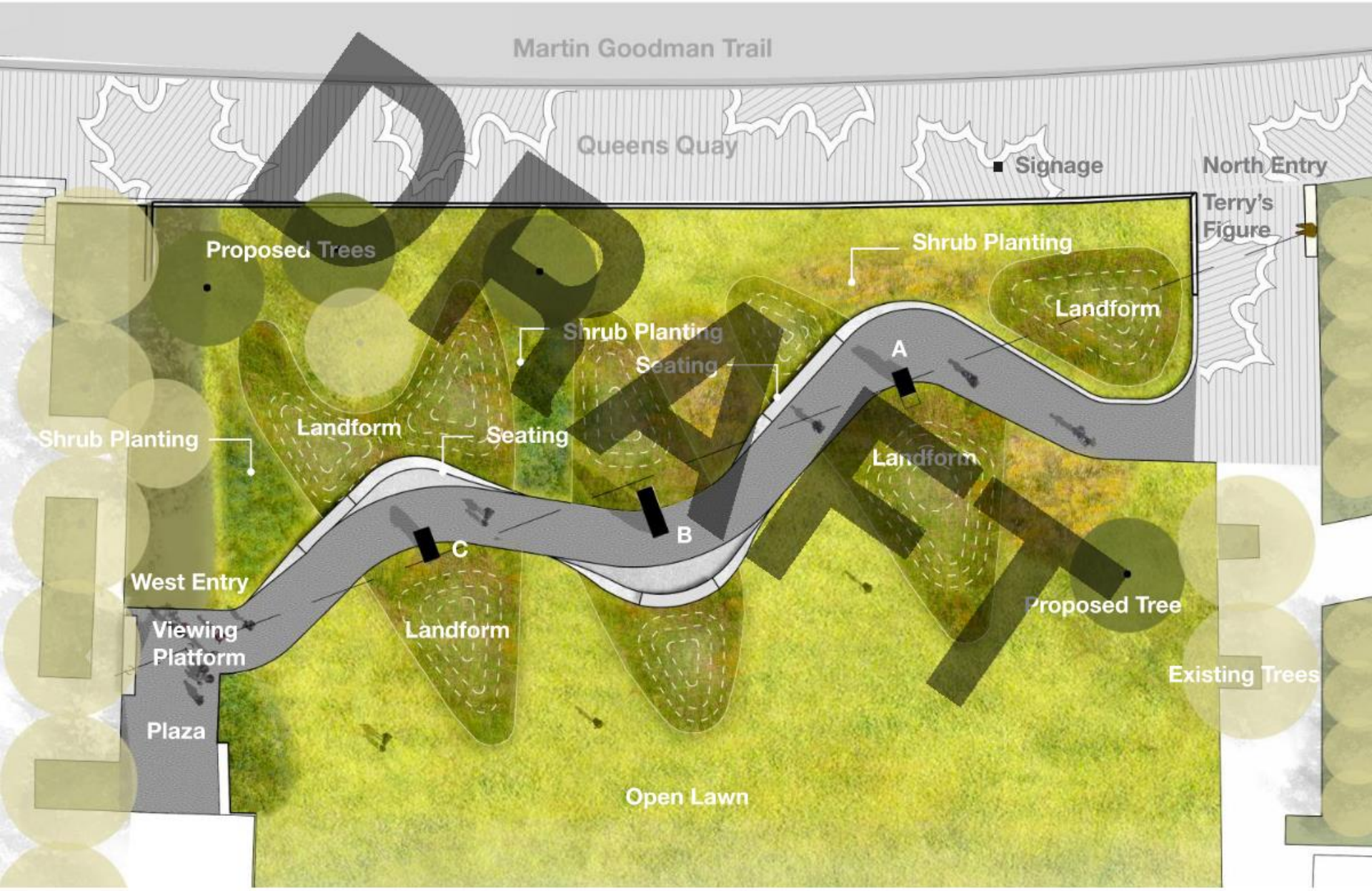
View looking East from the site

View looking north-east from the site

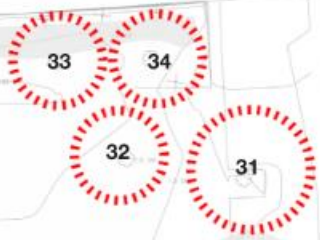
Previous Site Plan



Proposed Site Plan



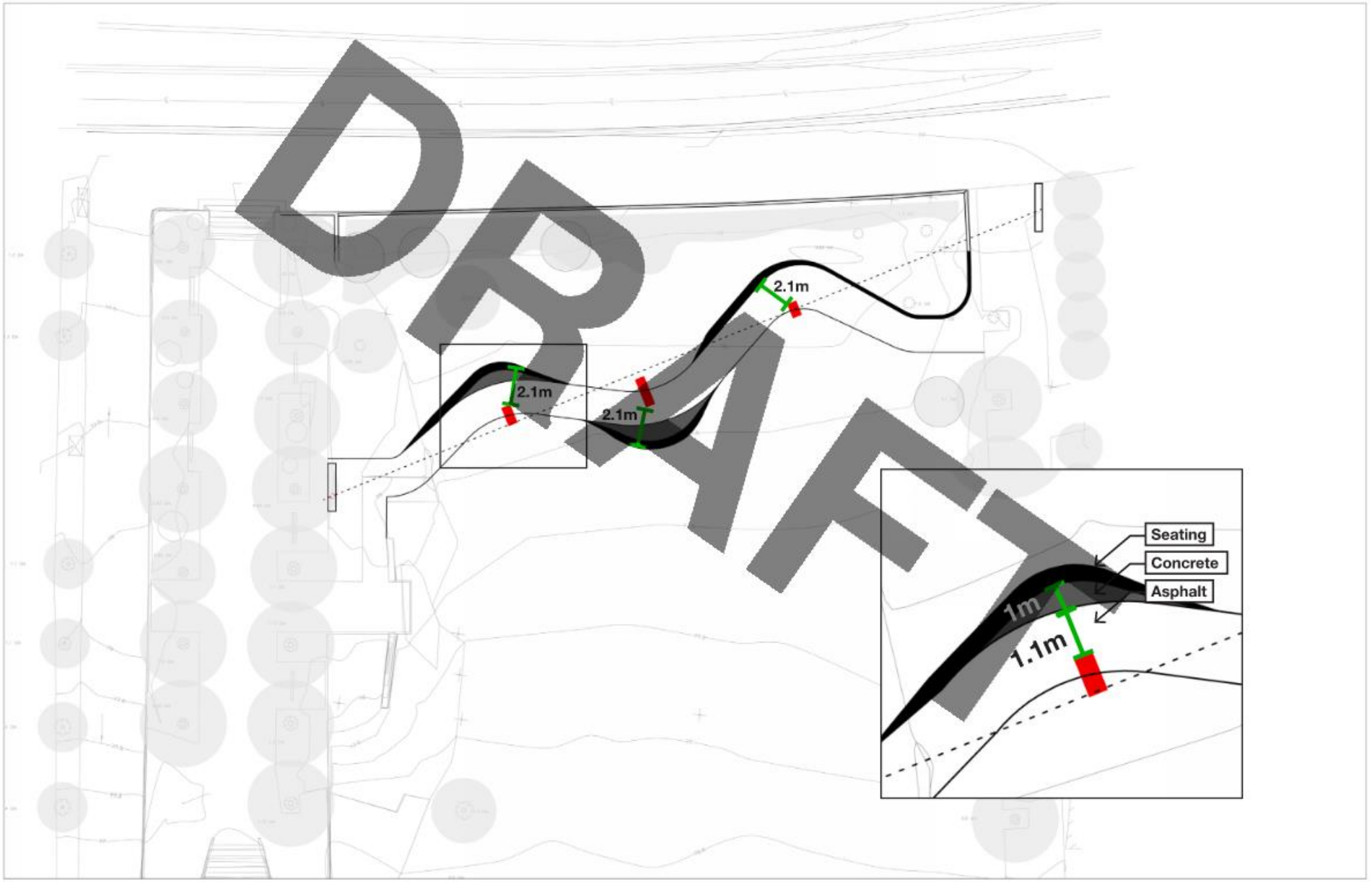
Design Strategies | Removals



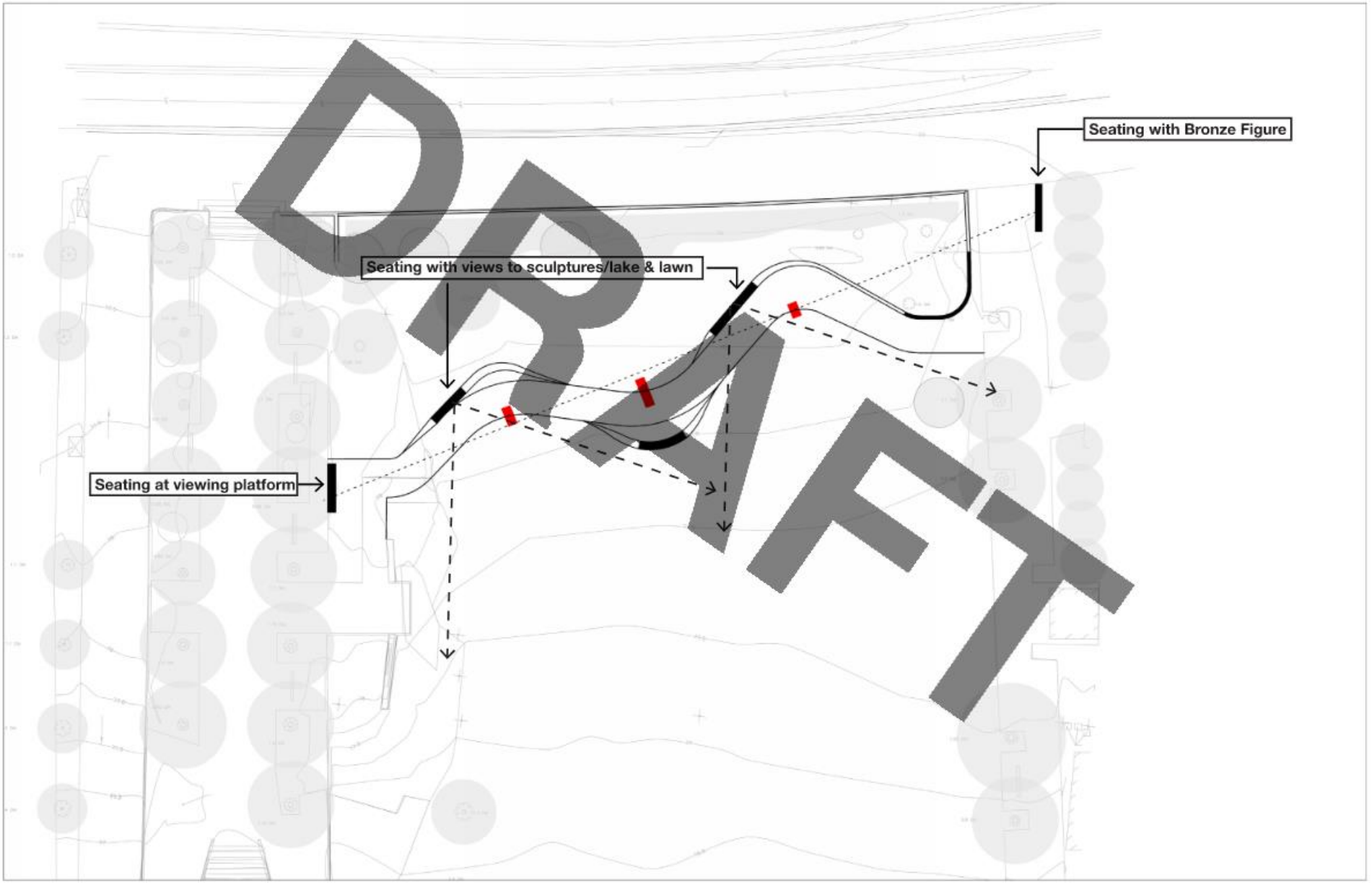
Bench to be Removed

31	Little-leaf Linden	*Tilia cordata*	32	FG	G	F	10	4	2.4	3	Union at 1.8m with included bark (M), sparse crown (L)	Remove	1
32	Apple	*Malus spp.*	7-13 (avg. 11)	FG	G	FG		3	1.8	3	Union at 0.5m-0.8m with 5 stems, epicormic branches (H)	Remove	1
33	Apple	*Malus spp.*	12-20 (avg. 16)	FG	G	F		3.5	1.8	3	Union at 0.5m-0.6m with 5 stems, crook (M), epicormic branches (H)	Remove	1
34	Apple	*Malus spp.*	19, 18, 16	FG	G	F	15	3	1.8	3	Co-dominance at 0.6m, epicormic branches	Remove	1

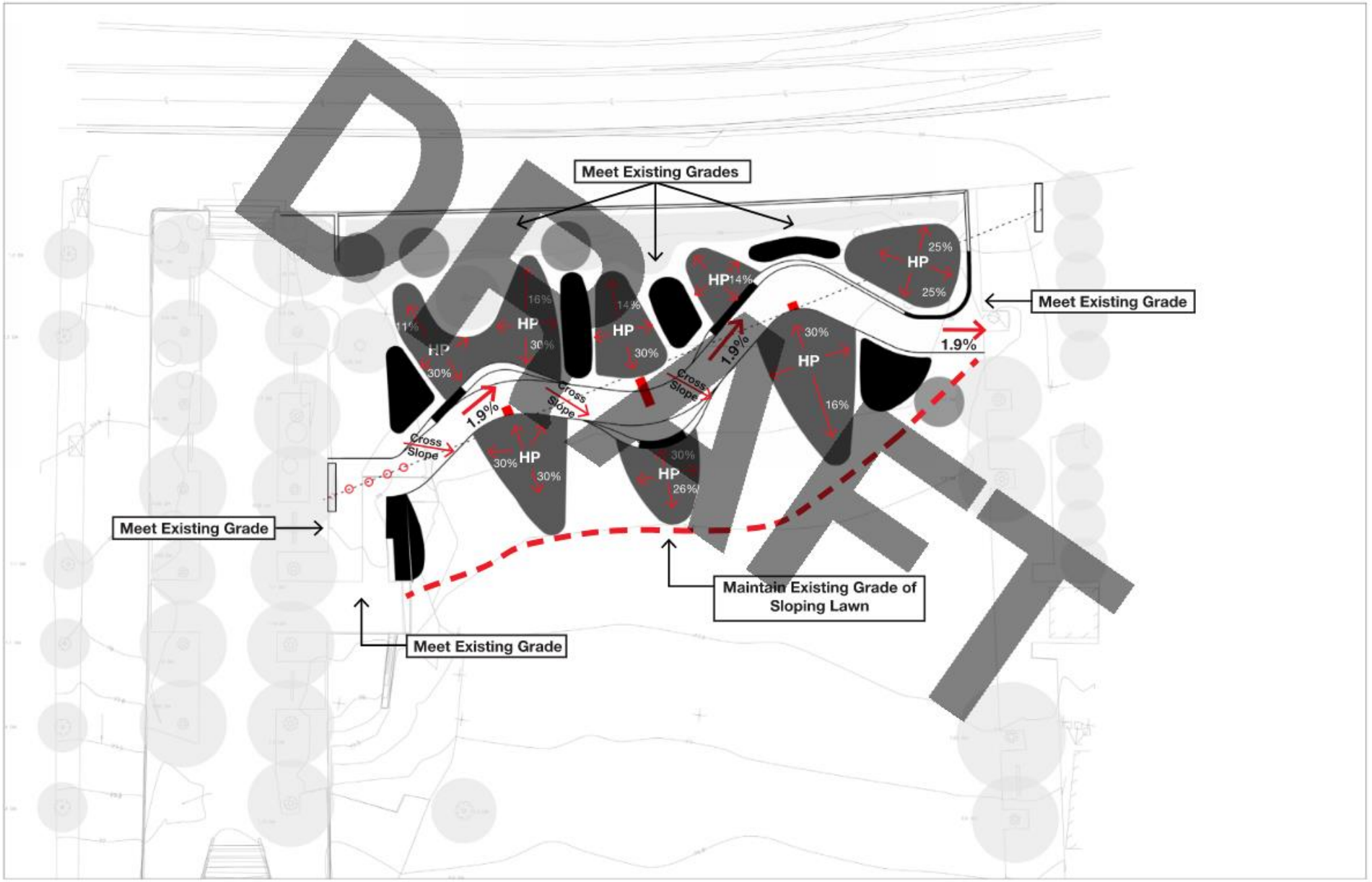
Design Strategies | Path Layout



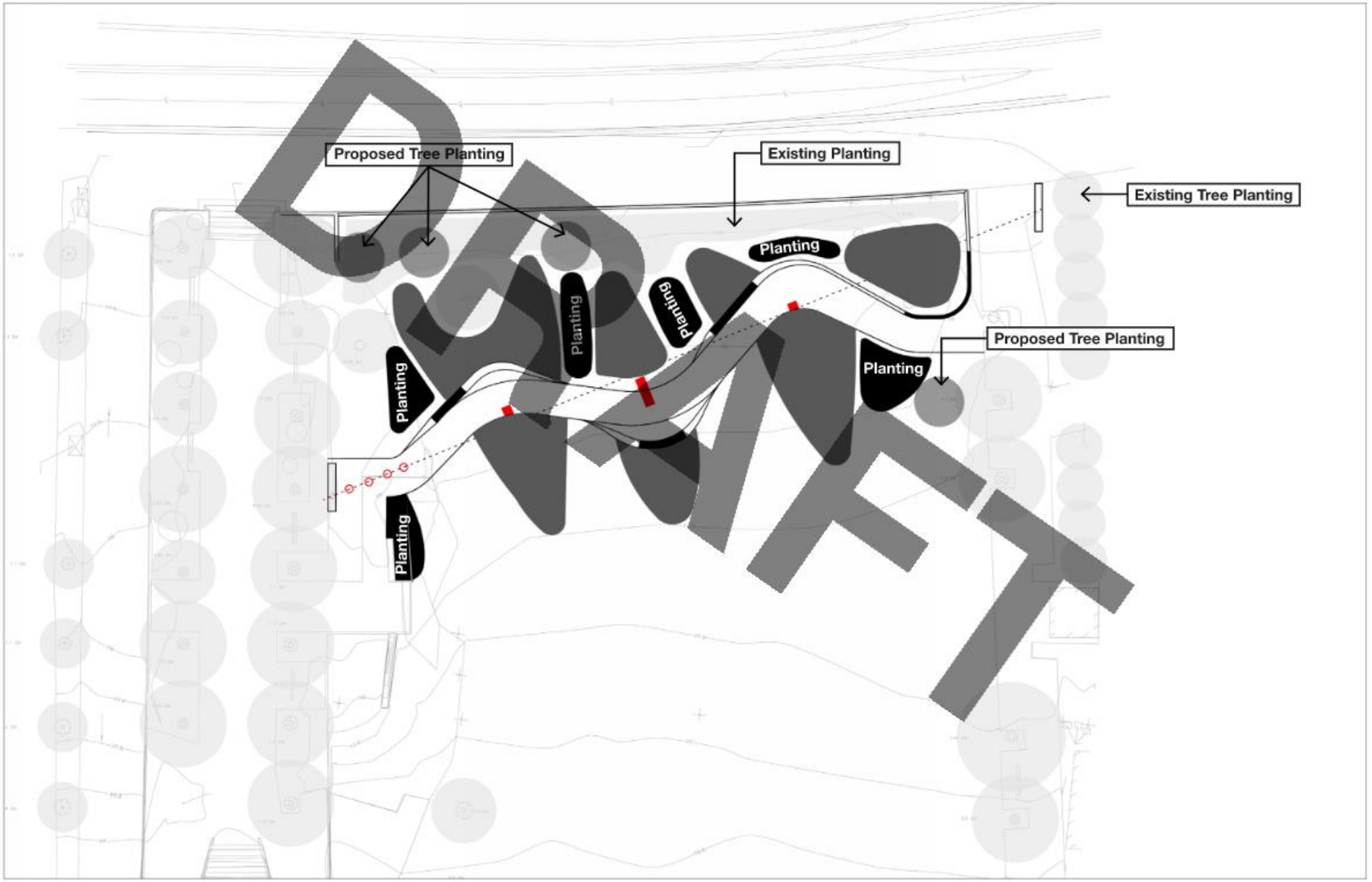
Design Strategies | Seating



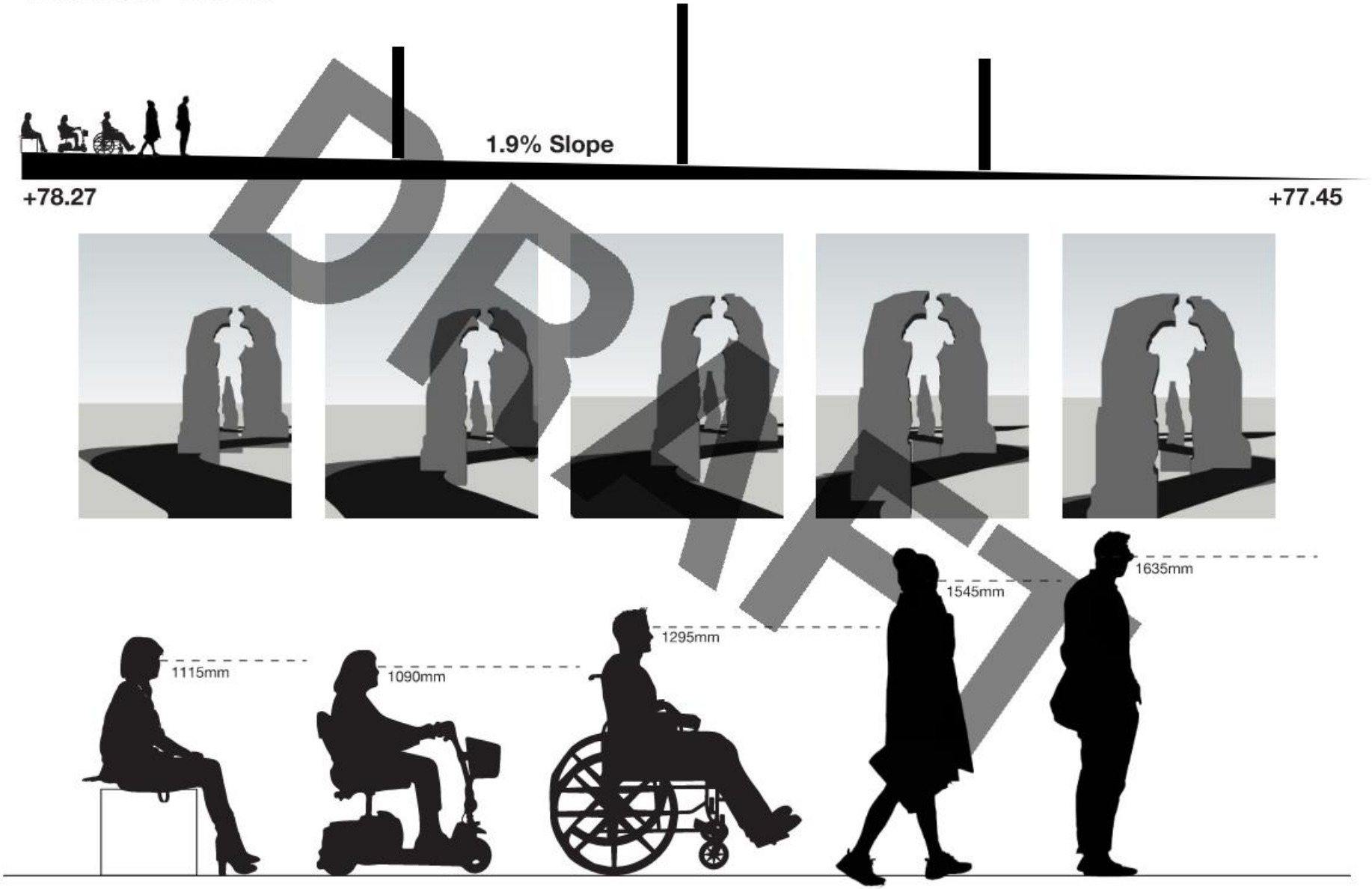
Design Strategies | Site Grading



Design Strategies | Planting



Framed Views



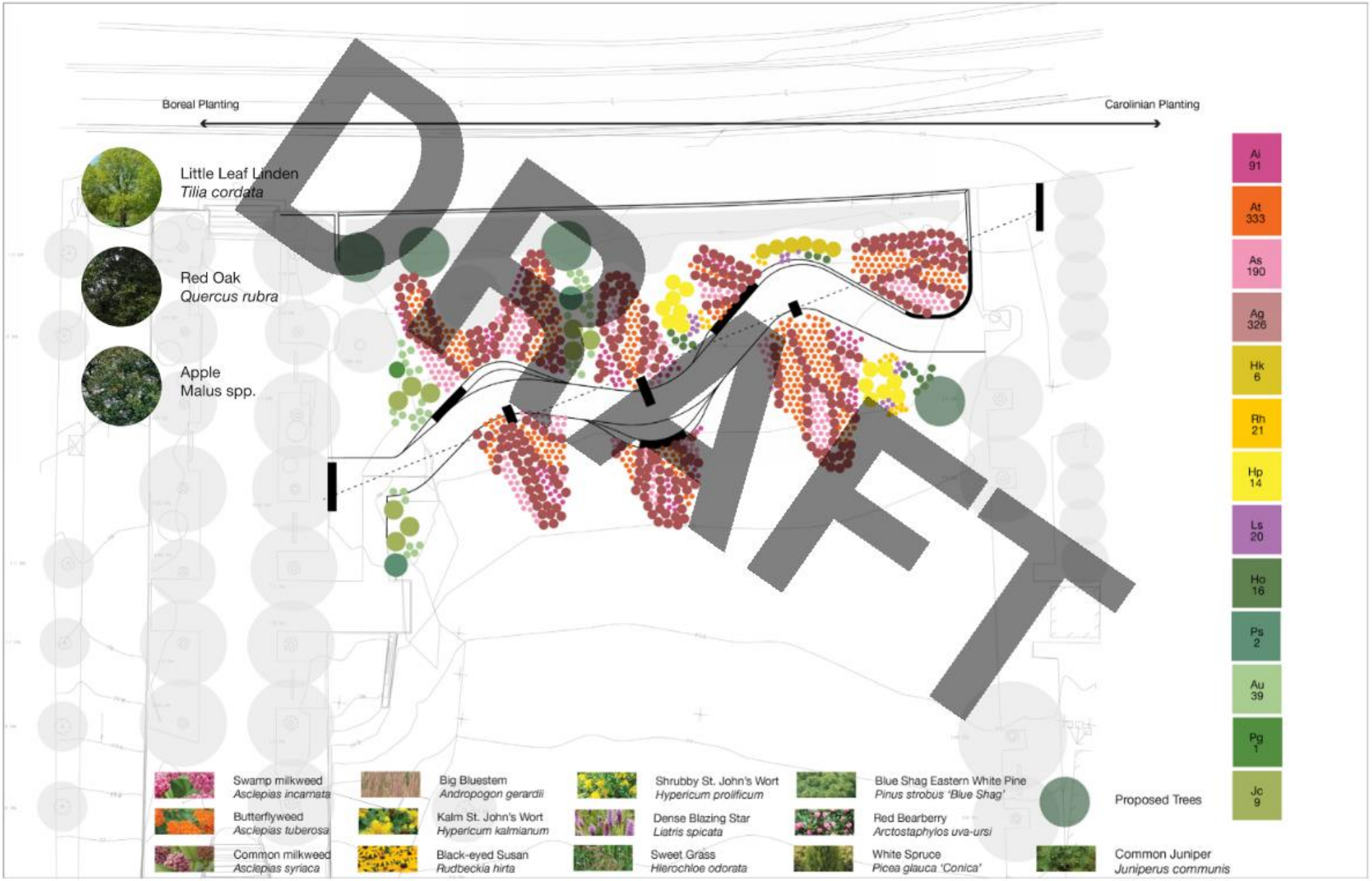
Planting Design

• The Journey - Develop a planting design that reflects Terry's journey. A design that can reflect Northern Boreal and Southern Carolinian planting.

• Medicinal Planting - Incorporate medicinal plantings, particularly St Johns Wort that has anti-cancer agents and sweet grass braid which represents strength through cooperation for the Métis.

• Meadow Masses - Propose species to specifically target Monarchs and the idea of transformation and the journey associated with them.

Design Strategy | Planting Layout/Species



Planting Palette

Pollinator Planting


Swamp milkweed
Asclepias incarnata


Butterflyweed
Asclepias tuberosa


Common milkweed
Asclepias syriaca


Big Bluestem
Andropogon gerardii

Carolinian Planting


Kalm St. John's Wort
Hypericum kalmianum


Black-eyed Susan
Rudbeckia hirta


Shrubby St. John's Wort
Hypericum prolificum


Dense Blazing Star
Liatris spicata


Sweet Grass
Hierochloe odorata

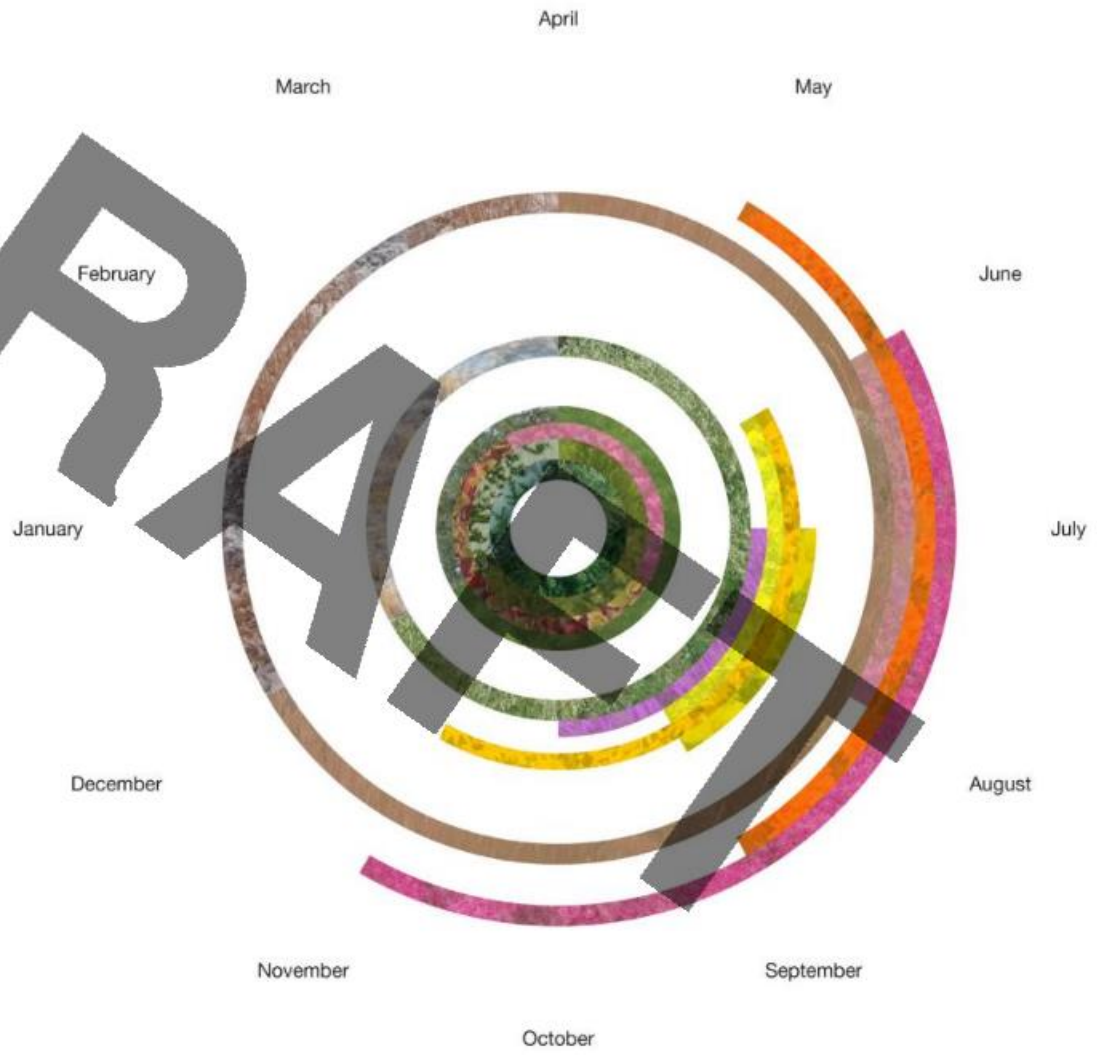
Boreal Planting


Blue Shag Eastern White Pine
Pinus strobus 'Blue Shag'


Red Bearberry
Arctostaphylos uva-ursi


White Spruce
Picea glauca 'Conica'


Common Juniper
Juniperus communis



Materials


Sustainable Wood


Pollinator Planting

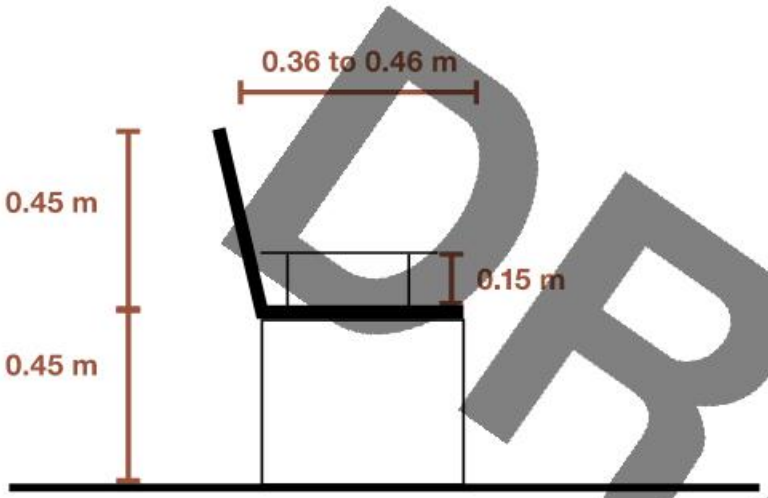

Integrated Seating/Wall

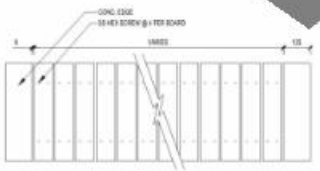

Hight Albedo Asphalt Coating to reduce UHI

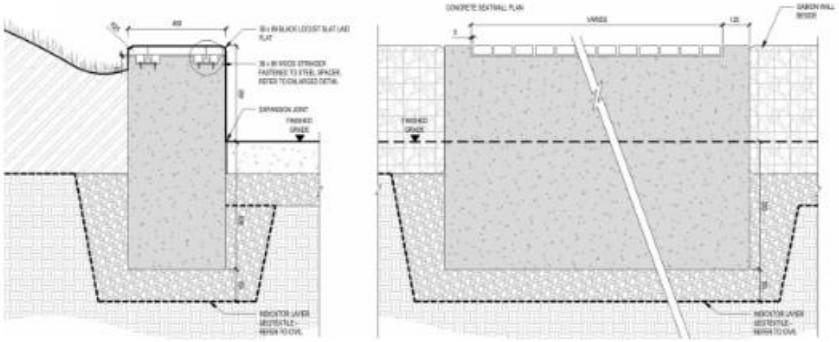

Pavement Marking


Granite Off Cuts from Quebec

Seating







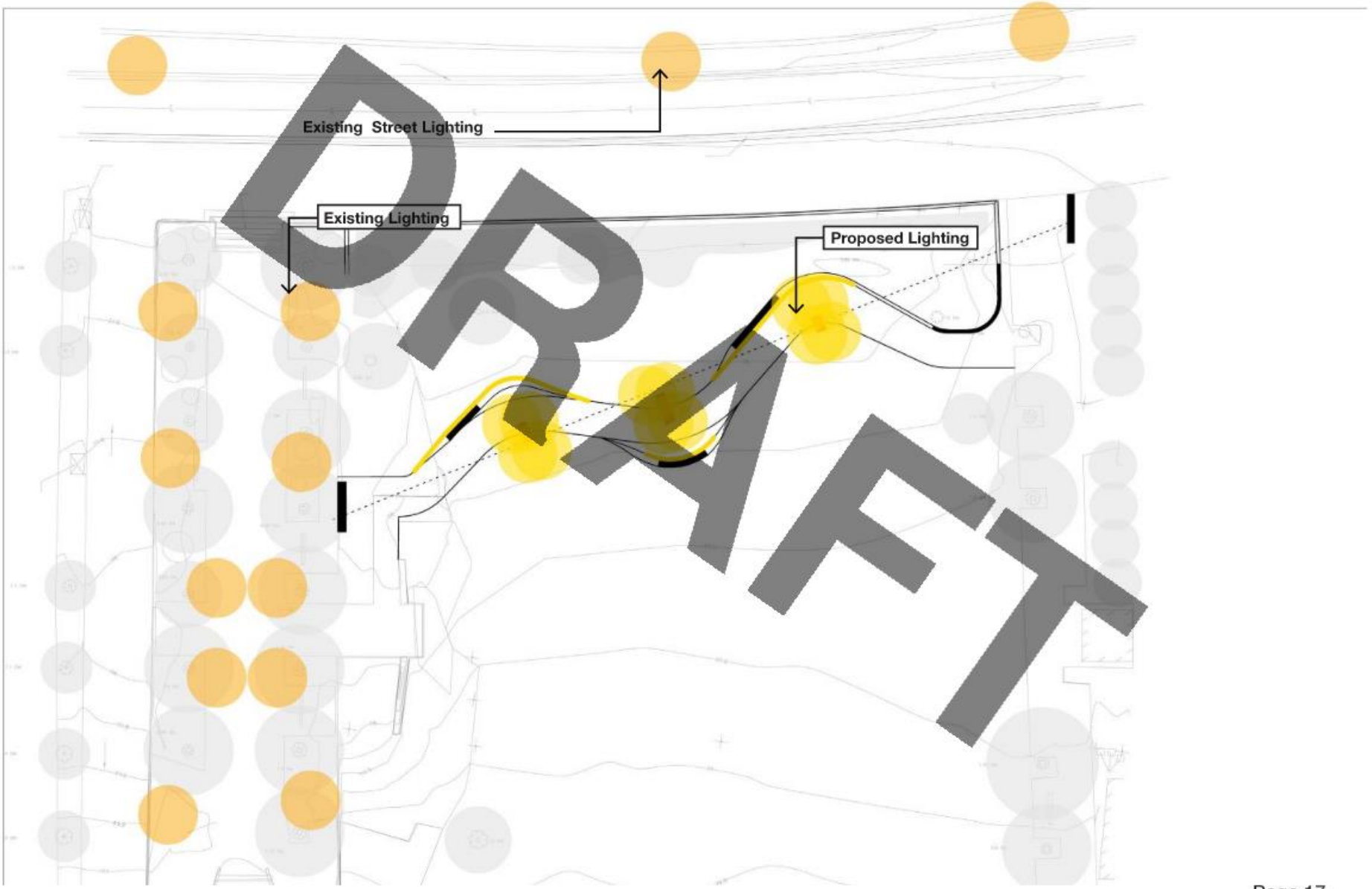
Waterfront Toronto Signage

Graphics to be finalized in consultation with WT and Design Team

Front Elevation
Panel

Potential Material Palettes for base.

Lighting Strategy



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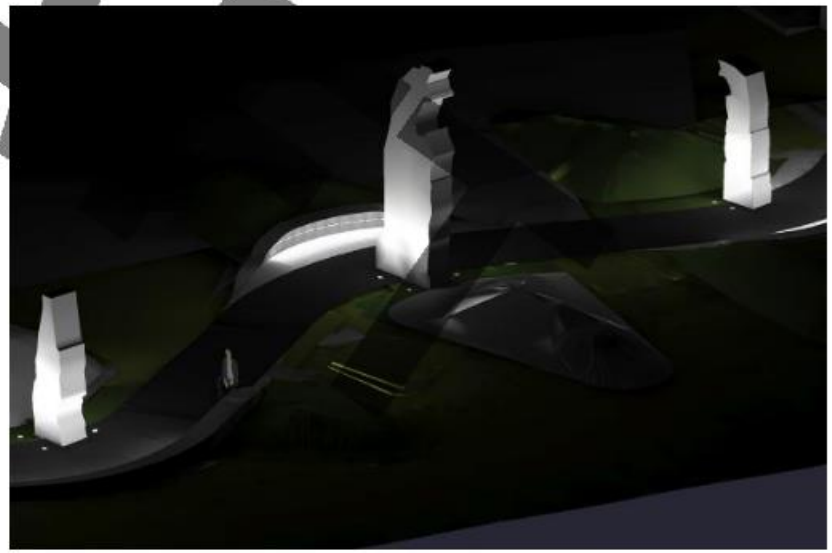


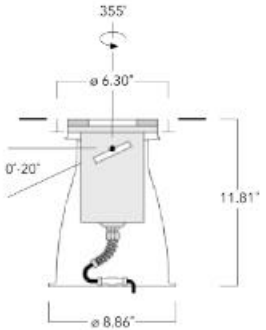
Lighting Details

Inground Up-Lighting

- Lighting is selected around creating a dramatic effect, more so than general illumination.
- Fixtures are selected based on being subtle, from an installation standpoint, but effective from a lighting distribution standpoint.
- Durability and ease of install are also considered. Factory sealed, wanting this to be a lasting, timeless project.

ETC120-GB LED
Inground Luminaires
2/7

we-ef



Description
IP69K. Class I. IK10+. Stainless steel construction. PCS hardware. Silicone CCG® Controlled Compression Gasket. Safety glass lens; max load 5.5 tons (11,000 lbs). Luminaire can be driven over at low speed. Cable gland with spiral cable bending protection. Factory-sealed termination chamber complete with cable gland and 3 ft of flexible PVC-free, gel-impregnated anti-wicking cable. CAD-optimized optics for superior illumination and glare control. Integral driver in thermally separated compartment. OLC® One LED Concept. Factory-installed LED circuit board. Gimbal mounted, 355° rotatable and 20° tiltable. 'No tool' removable gear/lens tray. Suitable for flush installation in concrete or earth. The concrete-pour installation blockout is supplied as standard with luminaire. Specify product with 7 Digit product code – Finish Color. Accessories, such as mounting, optical, and electrical, must be specified separately. Example: XXX-XXXX-9004 (Black) + XXX-XXXX (Accessory 1)

ETC120-GB LED
Inground Luminaires
3/7

we-ef

Specifications

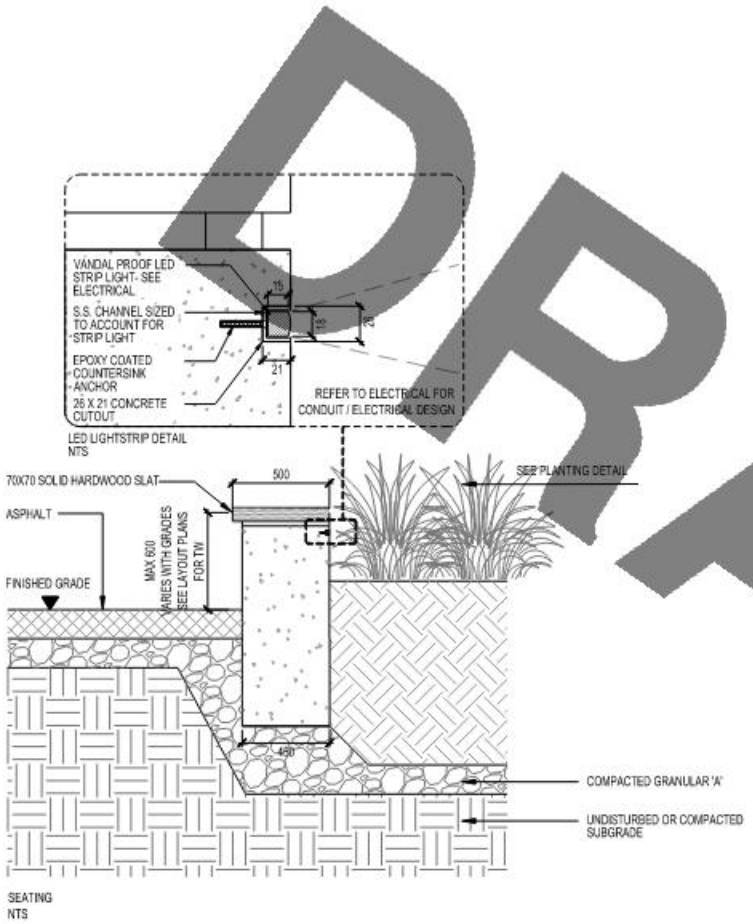
Material Specification	
Body:	Luminaire body constructed of deep drawn stainless steel. Outer housing composite material.
Lens:	5/8" thick clear tempered glass lens. Max. load 5 tonnes.
Colours:	Stainless Steel
IP69K	The Highest Ingress Protection Rating Available!
ETL/ETL	ETL, UL-1598 equivalent, CSA-C22.2#250.0. Suitable for Wet Locations.
Quick Ship	Quickship features a one week ship time for Steplights and two week ship time for the rest of our Core products. All applicable information must be included for orders to be processed and colors must be in one of our 4 standard finishes. A maximum order quantity of 30 pieces applies.
Gasket:	Silicone rubber gasket
Fasteners:	PCS polymer coated stainless steel
Ingress protection:	IP69K - HIGHEST PROTECTION RATING AVAILABLE
Impact protection:	IK10+
Corrosion protection:	5CE
Mounting:	Suitable for installation in concrete or earth. Suitable for walk-over and drive-over applications. Proper drainage and foundation support must be provided.
Listings:	ETL, UL-1598, CSA-C22.2#250.0. Suitable for Wet Locations.

Electrical Specification	
Power supply:	Integral [ECG] electronic driver 120V-277V
Power factor:	> 0.9
Driver / Ballast:	Integral EC electronic converter
Termination:	Factory sealed termination chamber
Cable:	3 feet of flexible 18/3 cable

Lifetime
Ta=25°/40° L90B10 > 90000h

Dimming
Consult factory for dimming availability.

Lighting Strategy

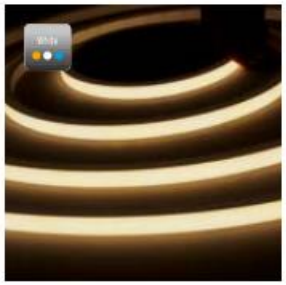


Lighting Details

Bench Lighting

- Lighting is selected around creating a dramatic effect, more so than general illumination.
- Fixtures are selected based on being subtle, from an installation standpoint, but effective from a lighting distribution standpoint.
- Durability and ease of install are also considered. Wanting this to be a lasting, timeless project.

VarioLED™ Flex VENUS family White TV IP67



IP67 flexible dot free linear LED light line with a 16 mm x 15 mm / 0.63" x 0.59" (W x H) cross section. Opal polyurethane encapsulation offering a premium water proof sealing, UV resistance, chemical stability against unsafe gazes and protection against abrasion. Vertical bending only, with radius of 150 mm (5.9") excellent solution for indoor/outdoor organic facade accent lighting or decorative applications requiring IP67 ingress. Freely configurable in length and delivered with 3M self adhesive tape on rear side and 110 mm (4.33") long cable at both end of the luminaire with IP67 male/female connectors. Light source assembled using state of the art automated Reel to Reel (R2R) production process supporting LED Linear™ Tj Away® thin flexible circuit board technology. In combination with ceramic LED packages an optimal heat dissipation (junction to installation surface) is achieved which guarantees an outstanding lifetime of > 60.000 hrs L80/B10. Embeds high quality Japanese LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only) with an extended photometric code of Wxxx/939 ensuring an exceptional color consistency over the rated lifetime. Premium color rendition with a CRI of 85 ensuring a good light quality. Consistent light intensity all along the strip length is obtained thanks to active current regulation operated by dedicated integrated circuits (ICs) on each step. Protected against electrostatic discharge ± 2.000 V and polarity miswiring. Fully PWM dimmable for frequency > 0 Hz up to 2 kHz (flicker free for frequency higher than 1.2 kHz according to IEEE P1789 standard). Engineered and produced in Germany.

Electrical & output data

Voltage	24 Volt (23 V_{min}, 25 V_{max})
Temperature[2]	Tc_{min} = -25°C / -13°F, Tc_{max} = 60°C / 140°F
Storage temperature	Ts_{min} = -30°C / -22°F, Ts_{max} = 85°C / 185°F
Ambient temperature	Ta_{min} = -25°C / -13°F, Ta_{max} = specific, see Table below
CRI / R9	up to 95 / up to 65

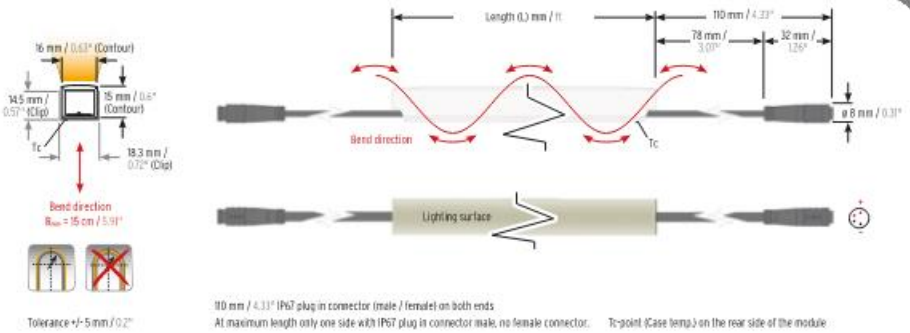
VarioLED™ Flex	VENUS	PHOBOS	SKYLLA
Power[1] (W/m / W/ft)[1]	6 / 1.8	10 / 3.1	15 / 4.6
Efficacy (lm/W)[1] @ W850	83	83	89
max. serial run length (m / ft)	5 / 16.4	5 / 16.4	4 / 13.1
max. Ambient temperature (Ta_{max})	40°C / 104°F	40°C / 104°F	35°C / 95°F

[1] The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

[2] The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

Dimensions & available lengths

Measurements VarioClip and VarioContour (W x H) 18.3 mm x 14.5 mm / 0.72" x 0.57"



Tolerance +/- 5 mm / 0.2"

110 mm / 4.33" IP67 plug in connector (male / female) on both ends

At maximum length only one side with IP67 plug in connector male, no female connector.

Tc-point (Case temp.) on the rear side of the module

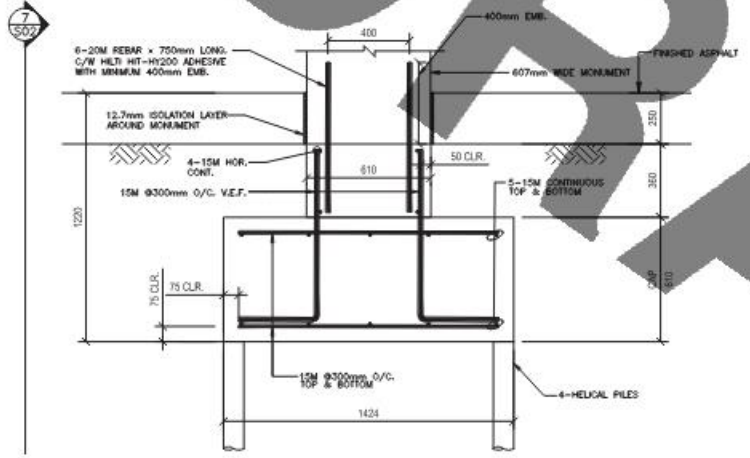
Fixture build to length (not field cuttable):

L_{min}: 213.5 mm; L_{max}: 5.026 mm (SKYLLA: 4.026 mm); in 62.5 mm increments

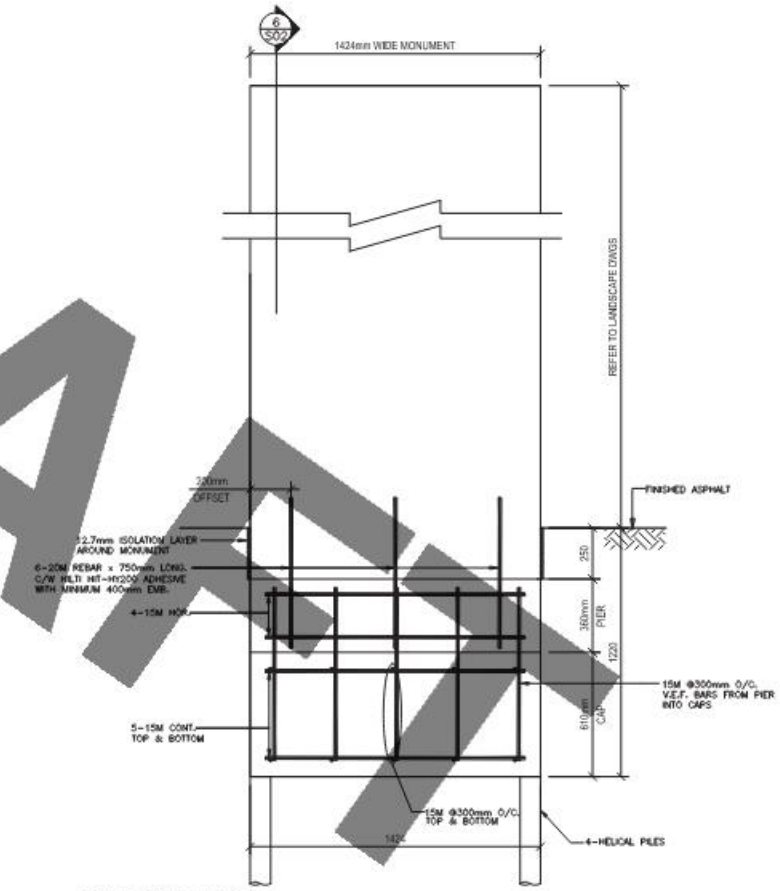
L_{min}: 8.41"; L_{max}: 16.49" (SKYLLA: 13.21"); in 2.46" increments

Footing Details

Typ. Monument Helical Pier & Concrete Cap



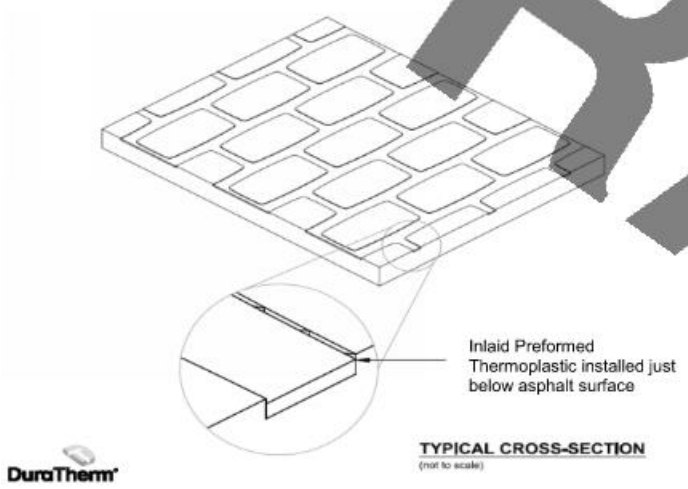
6 S02 MONUMENT HELICAL PILE/CAP/PIER DETAIL LOCATION 1
SCALE 1:20



7 S02 MONUMENT HELICAL PILE/CAP/PIER DETAIL LOCATION 1
SCALE 1:20

Pavement Markings

Duratherm



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Mock up/ Site Investigations

Mock-Up

Mock-Up


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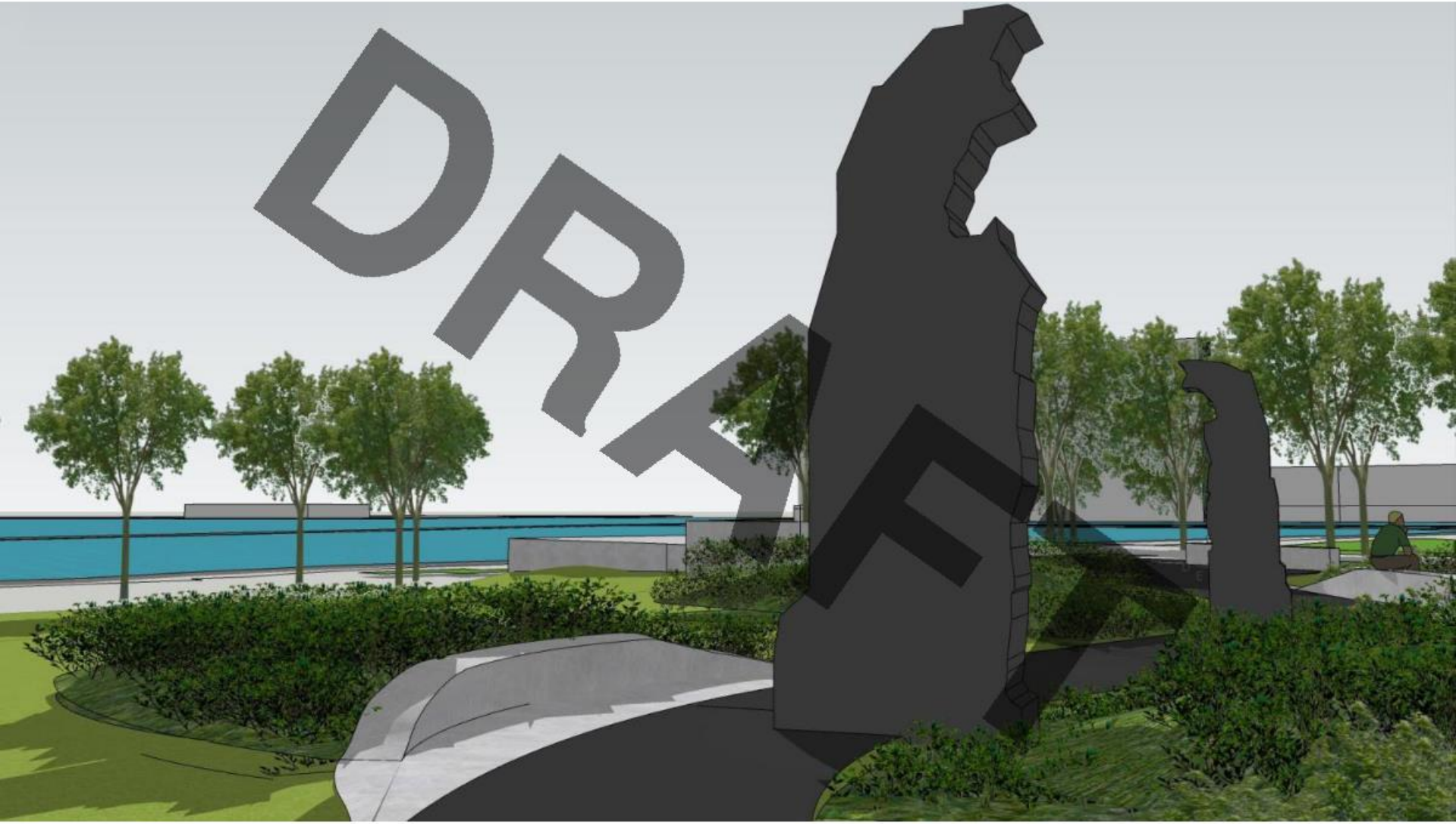
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Thank you.