PLANT

PLANT ARCHITECT INC.

MULOCK PROPERTY

Special Committee of the Whole

February 9, 2021

Walter Fedy
GBCA
PROCESS
Dew Inc.
MBL
A.W. Hooker
Custom Ice Inc.
Trina Moyan Bell
Eric Beck Rubin

AGENDA

Plan Updates
Material & Outbuildings Concepts
Site Tour

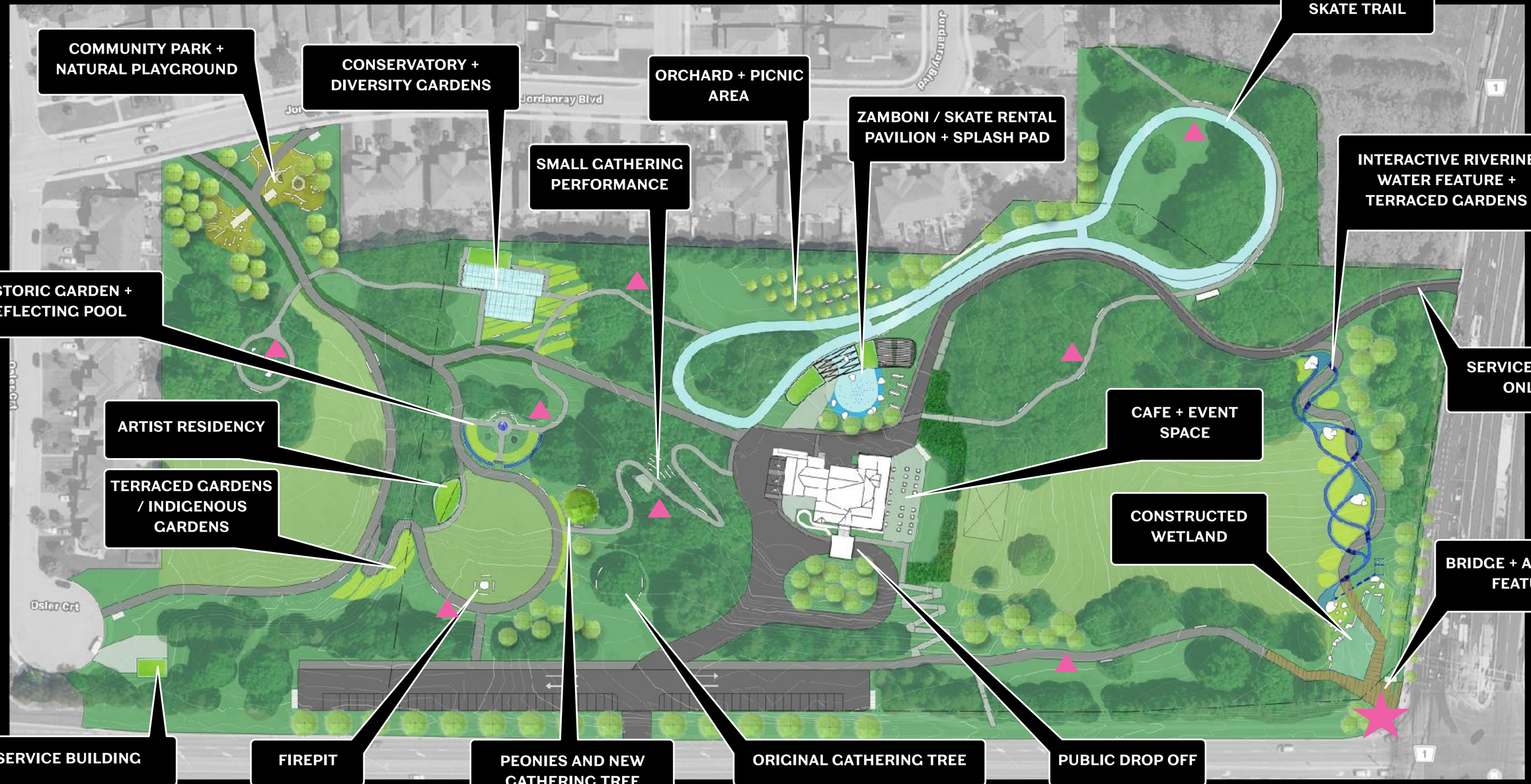
- Young & Mulock Entry
- House & Great Lawn
- Skate Trail, Splash Pad & Pavilion
- Conservatory & Diversity Gardens
- Artist Residency & Historic Garden
- Jim Bond Park & Playground

Sustainability
Lighting -

- Paul Boken, MBL present for Q&A

MULOCK ARBORETUM

MULOCK ARBORETUM



COMMUNITY PARK + NATURAL PLAYGROUND

CONSERVATORY + DIVERSITY GARDENS

ORCHARD + PICNIC AREA

SKATE TRAIL

ZAMBONI / SKATE RENTAL PAVILION + SPLASH PAD

SMALL GATHERING PERFORMANCE

INTERACTIVE RIVERINE WATER FEATURE + TERRACED GARDENS

HISTORIC GARDEN + REFLECTING POOL

SERVICE ROAD ONLY

ARTIST RESIDENCY

CAFE + EVENT SPACE

TERRACED GARDENS / INDIGENOUS GARDENS

CONSTRUCTED WETLAND

BRIDGE + ART ENTRY FEATURE

SERVICE BUILDING

FIREPIT

PEONIES AND NEW GATHERING TREE

ORIGINAL GATHERING TREE

PUBLIC DROP OFF

MULOCK ARBORETUM

WHAT'S CHANGED?

LANDSCAPE:

- Entryway feature
- Riverine water feature terraced gardens/Yonge frontage
- Orchard planting and picnic area adjacent to skate trail, new buffers
- Tent relocation to south of house
- Parkette and natural play area at Jim Bond / Jordanray Blvd entrance

ARCHITECTURE:

- Conservatory
- Artist's Residency studio
- Skate Building/Infrastructure
- Service Buidling

PARK PATH HIERARCHY

Legend:

- Road
- Existing Path
- Bridge
- Primary Path
- Secondary Path
- Access Ramp
- Skate Path (Winter)
  Multi-Use Path (Summer)

PARK PATHS - WINTER

Legend:

- Accessible Path maintained in winter (0-5% slope or ramp)
- Not maintained in winter
- Skate Trail

REVEAL LAYERS OF MATERIAL HISTORY NATURAL AND CULTURAL

–

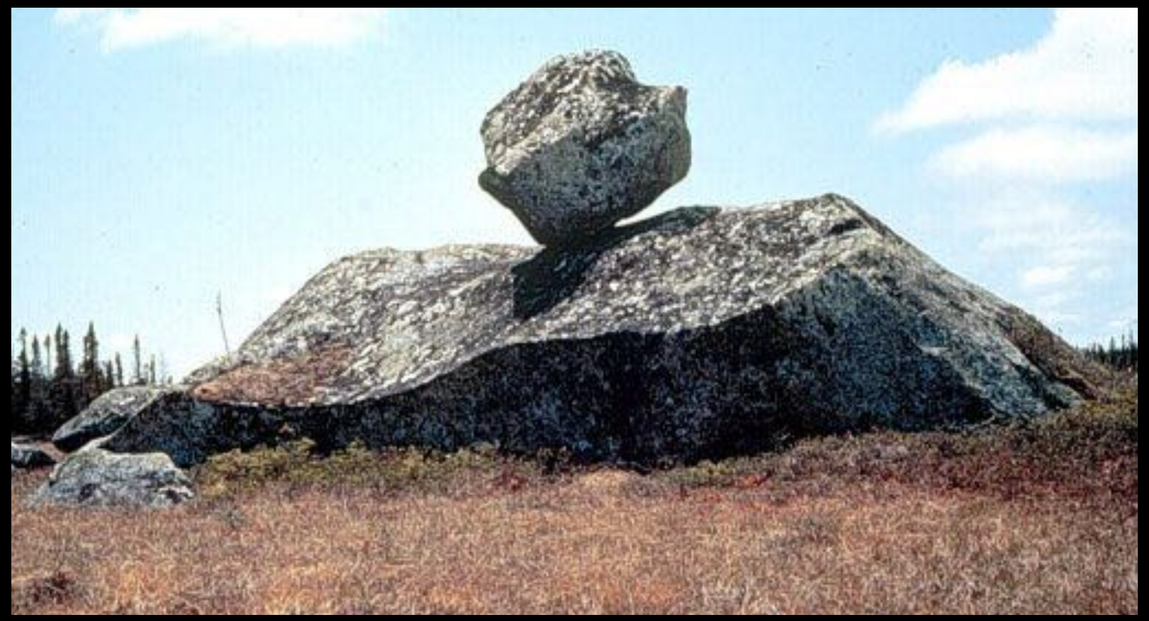
WOOD AND STONE

WOOD

arboretum and forest – wood showing its nature and the hand that shapes it – consciousness of wood

- felled trees (for wildlife habitat)
- repurposed trees for play, furniture and building structure and cladding, cured on site
- revel in tree forms

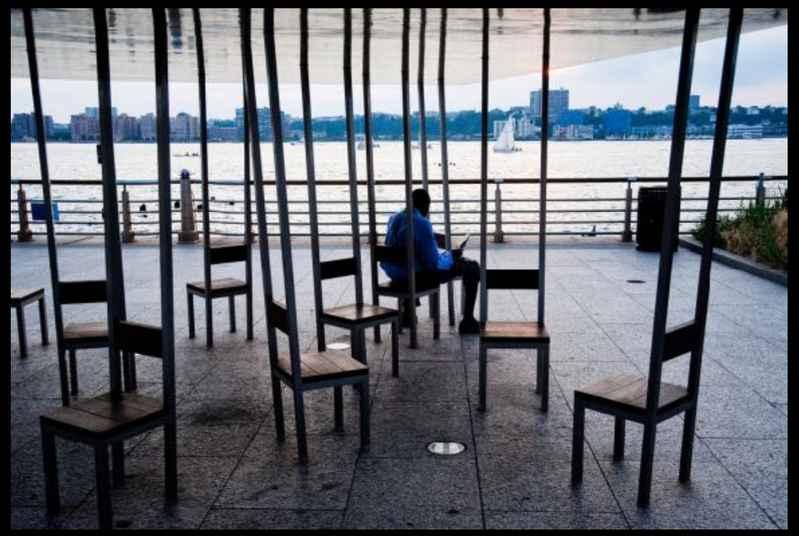
STONE



Recalling the geology of the moraine: glaciation, kettle lakes – scraped surfaces, erratics (randomly placed stone in the landscape)

- stone singular, sculptural, irregular
- partially shaped by hand

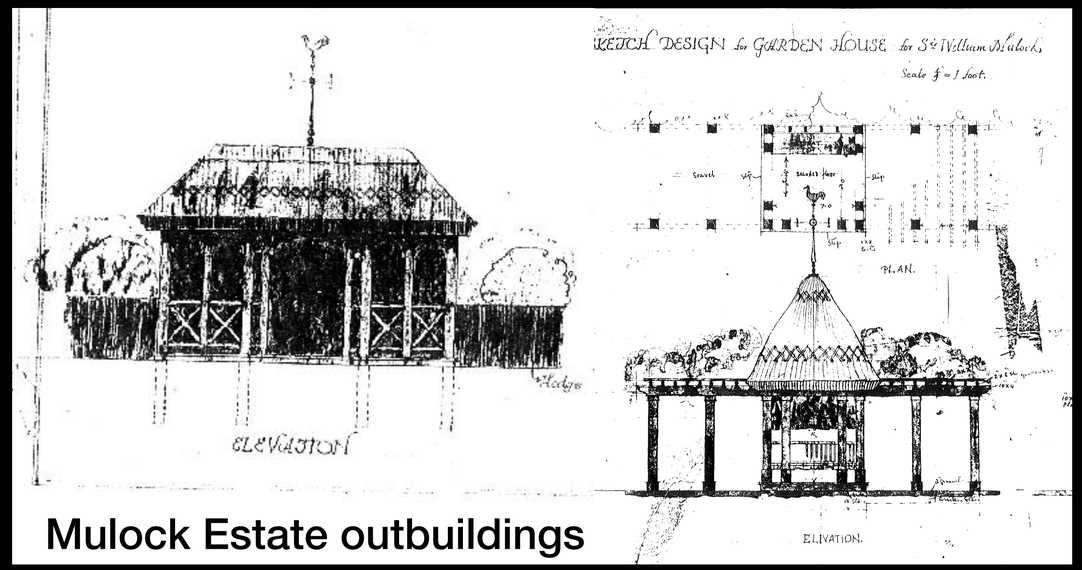
FURNITURE



wood with metal, made from trees, analogous to trees, showing off trees

IN DIALOGUE WITH THE HOUSE

RUSTICNESS – VICTORIAN



Mulock Estate outbuildings

In contrast to the complex assemtry of the house – simpler forms,
highly textured, in the woods –the country leisure as opposed to the city

IN DIALOGUE WITH THE HOUSE

RUSTICNESS MODERN – TEXTURE

highly textured, woodsy, shows off texture of wood

IN DIALOGUE WITH THE HOUSE

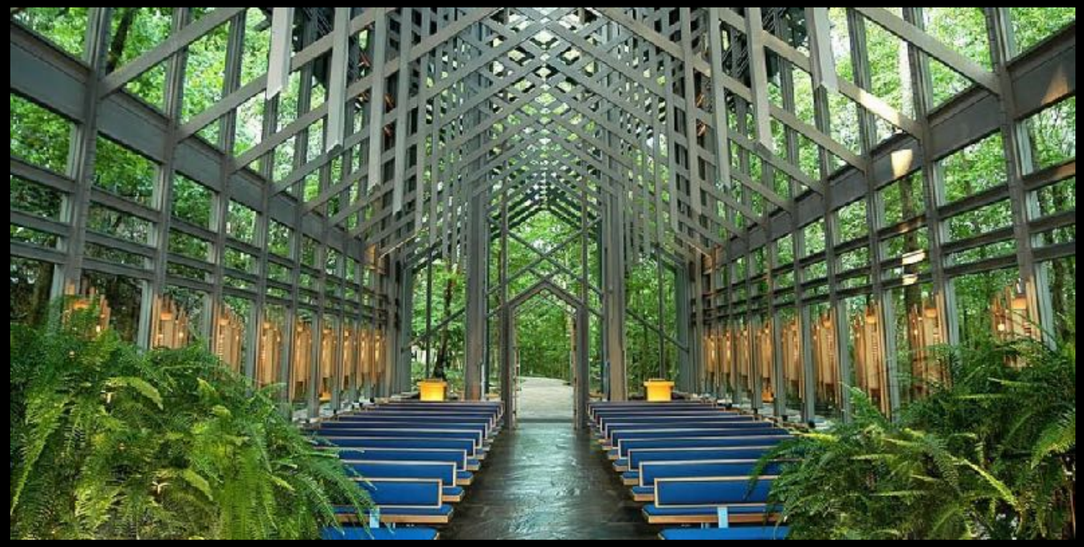
RUSTICNESS MODERN – FORM

simple forms with high texture and shadow

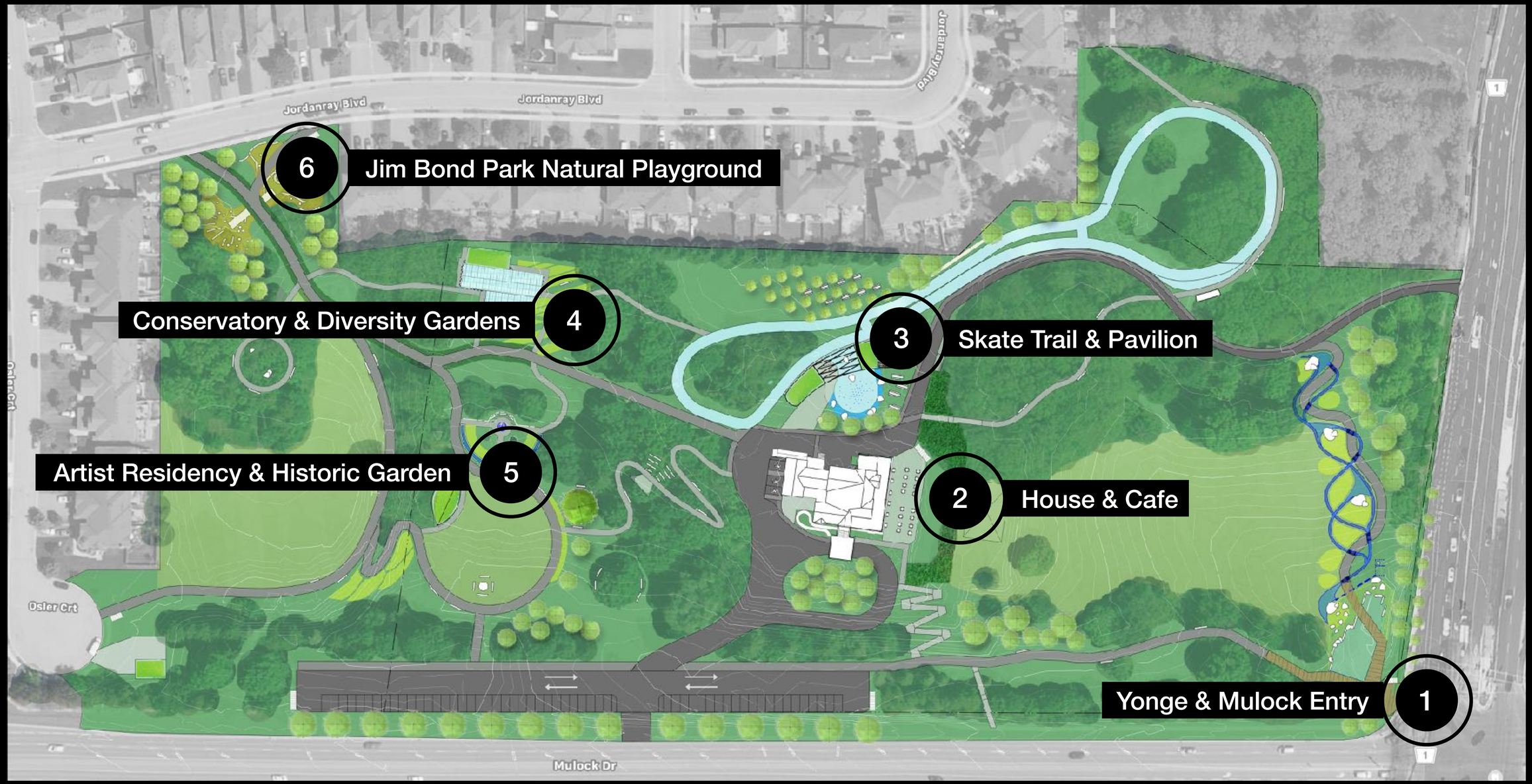
IN DIALOGUE WITH THE HOUSE

INSIDE/OUTSIDE SPACES

Porches, overhangs, inside outside spaces and many front doors mark them as garden buildings always engaged with the landscape



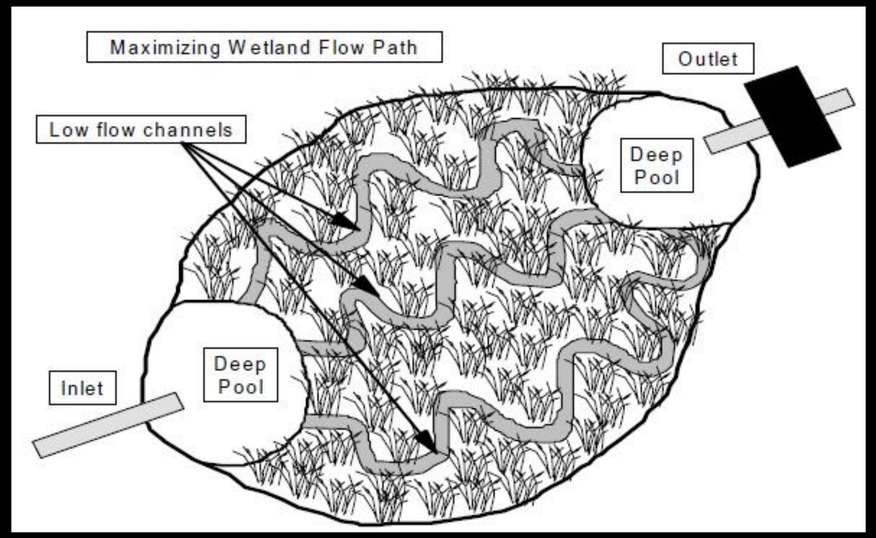
MULOCK ARBORETUM: SITE TOUR



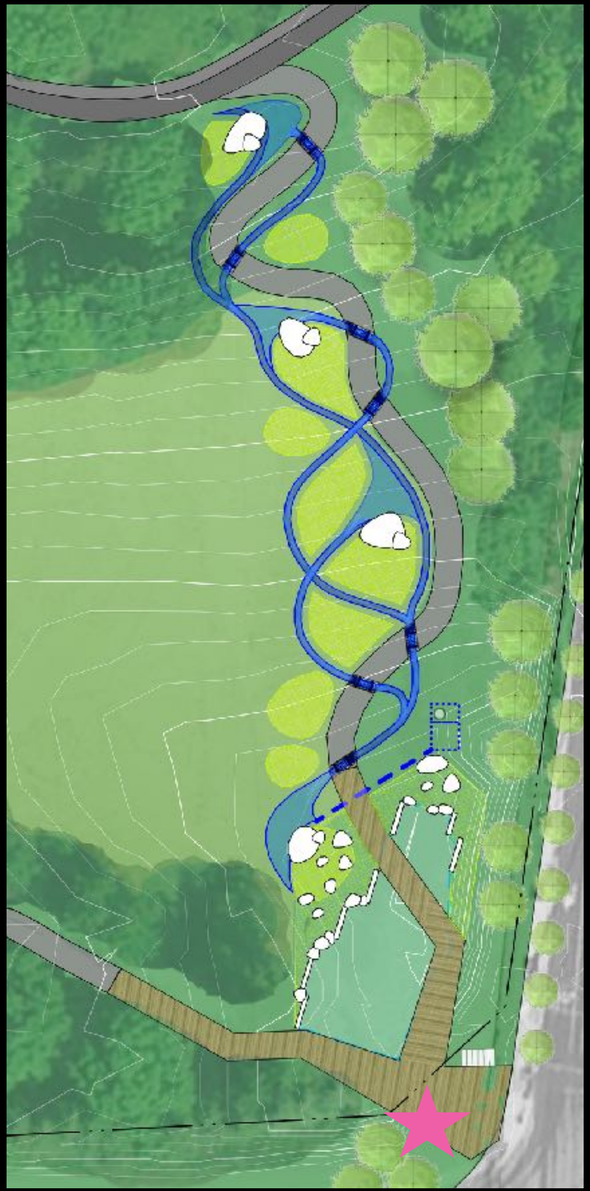
1 YONGE & MULOCK ENTRY

ENTRY AT YONGE & MULOCK

ENTRY PRECEDENTS

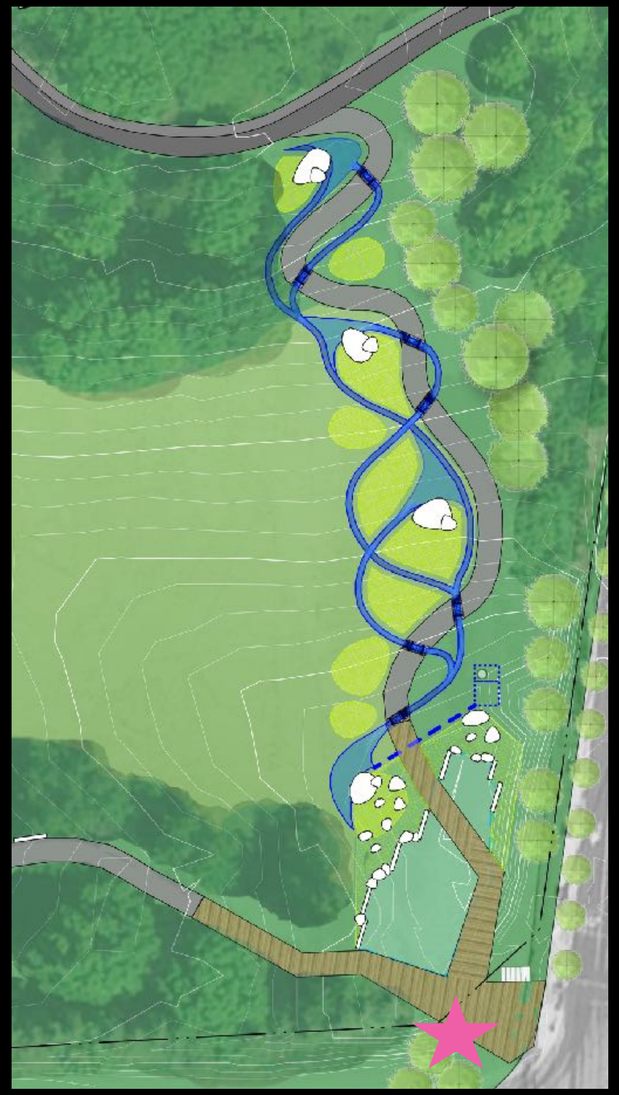


ENTRY



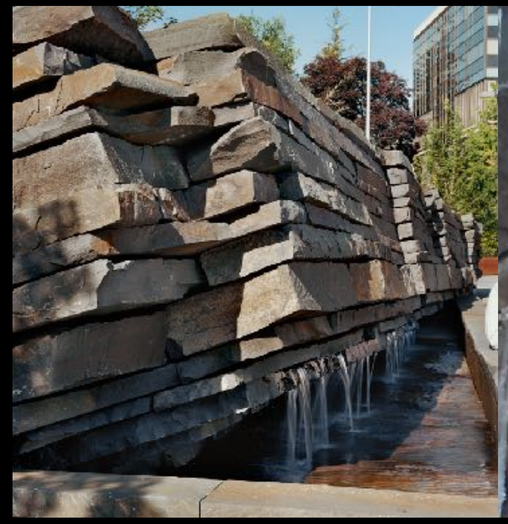
RIVERINE WATER SITE

RIVERINE WATER CONCEPT



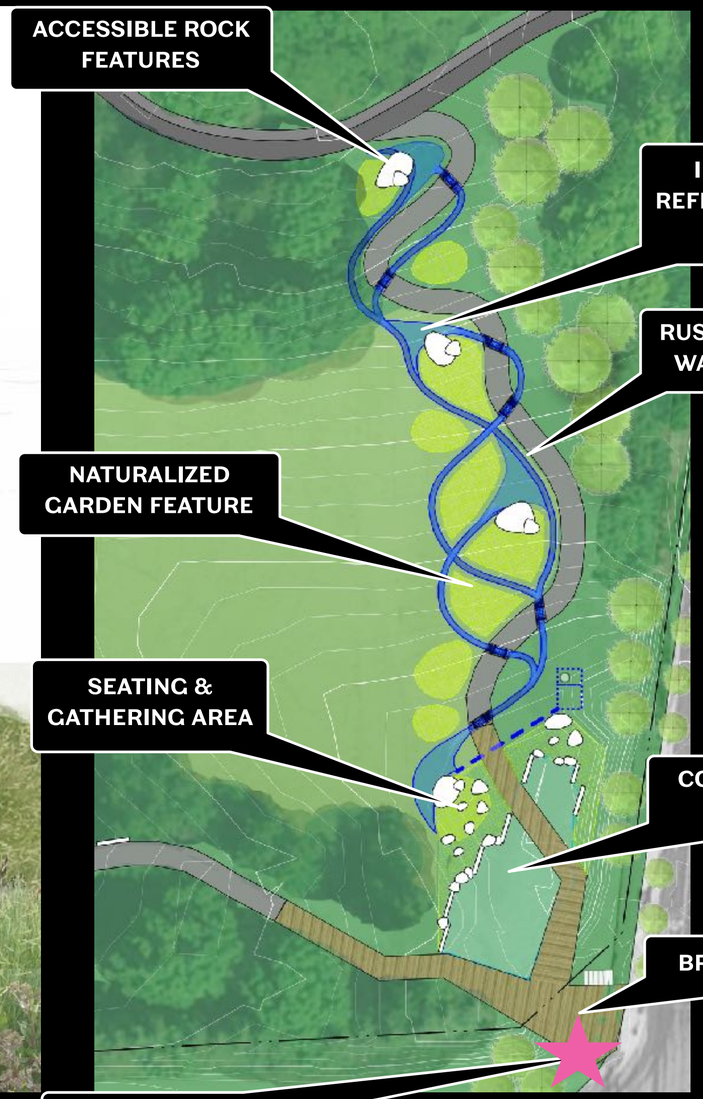
Braided stream, glacial river, call back to geological moraine

RIVERINE WATER PRECEDENTS



Sound, cascades, rugged/elegance, interactive.

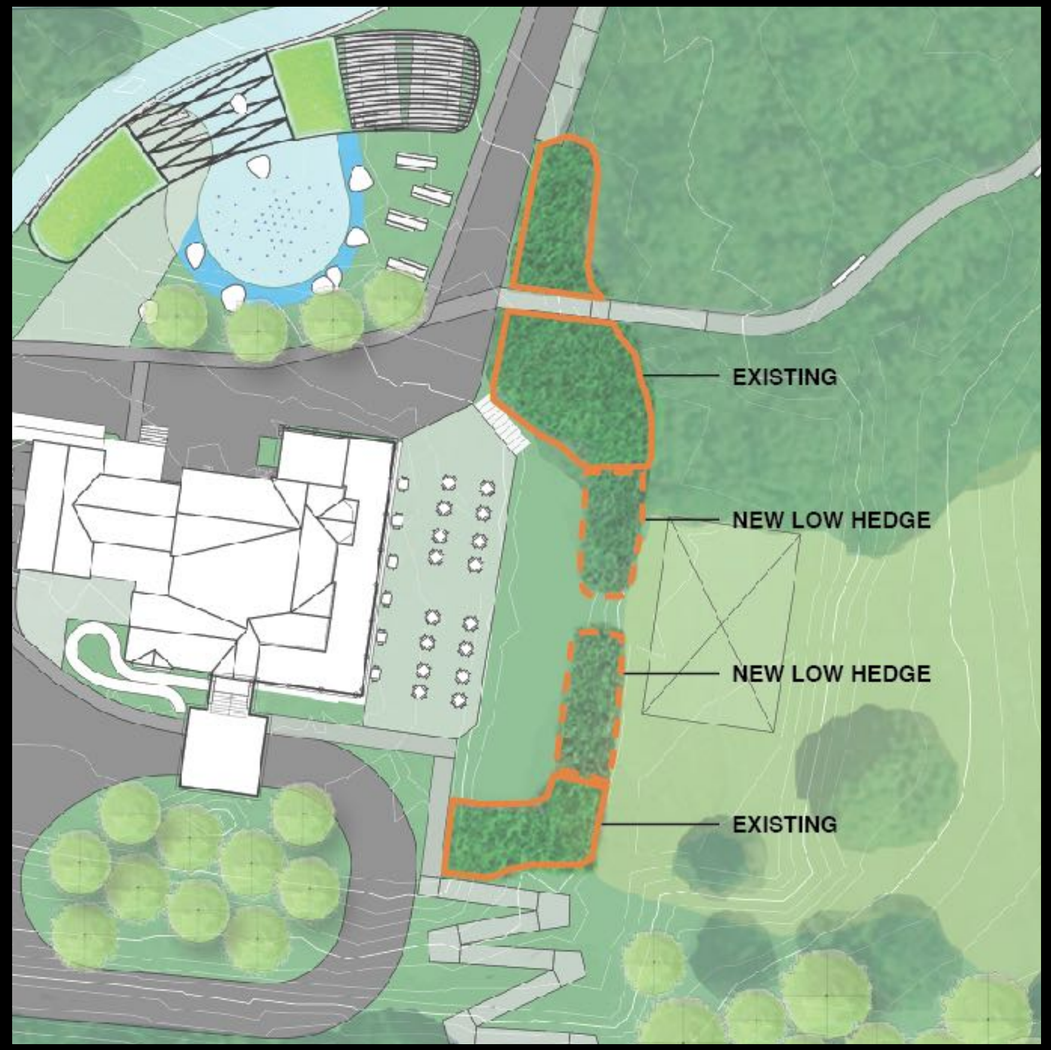
RIVER BOULDER GARDEN CONCEPT



2 HOUSE & GREAT LAWN

CONNECTING HOUSE AND LAWN

CONNECTING HOUSE AND LAWN



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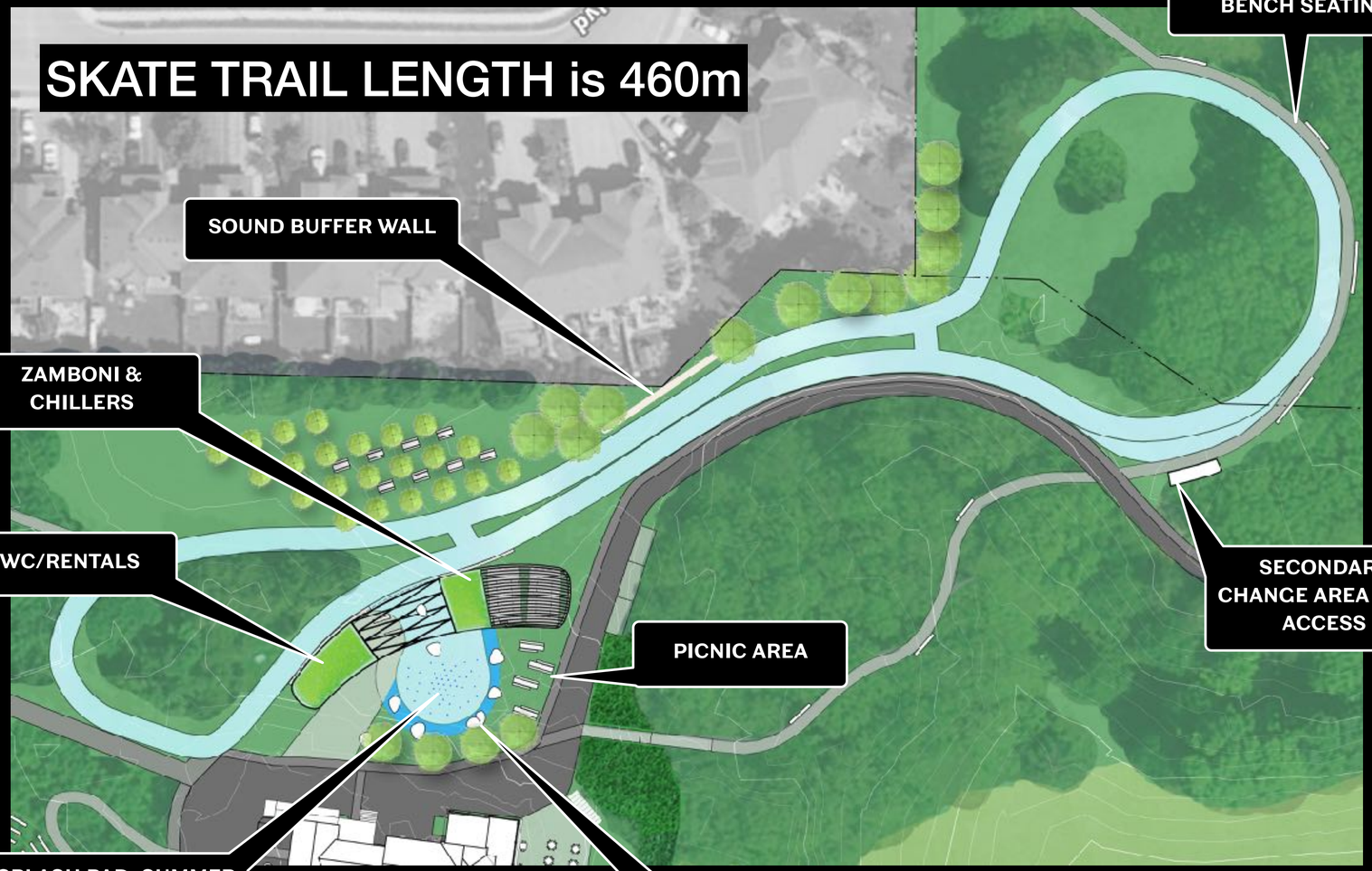
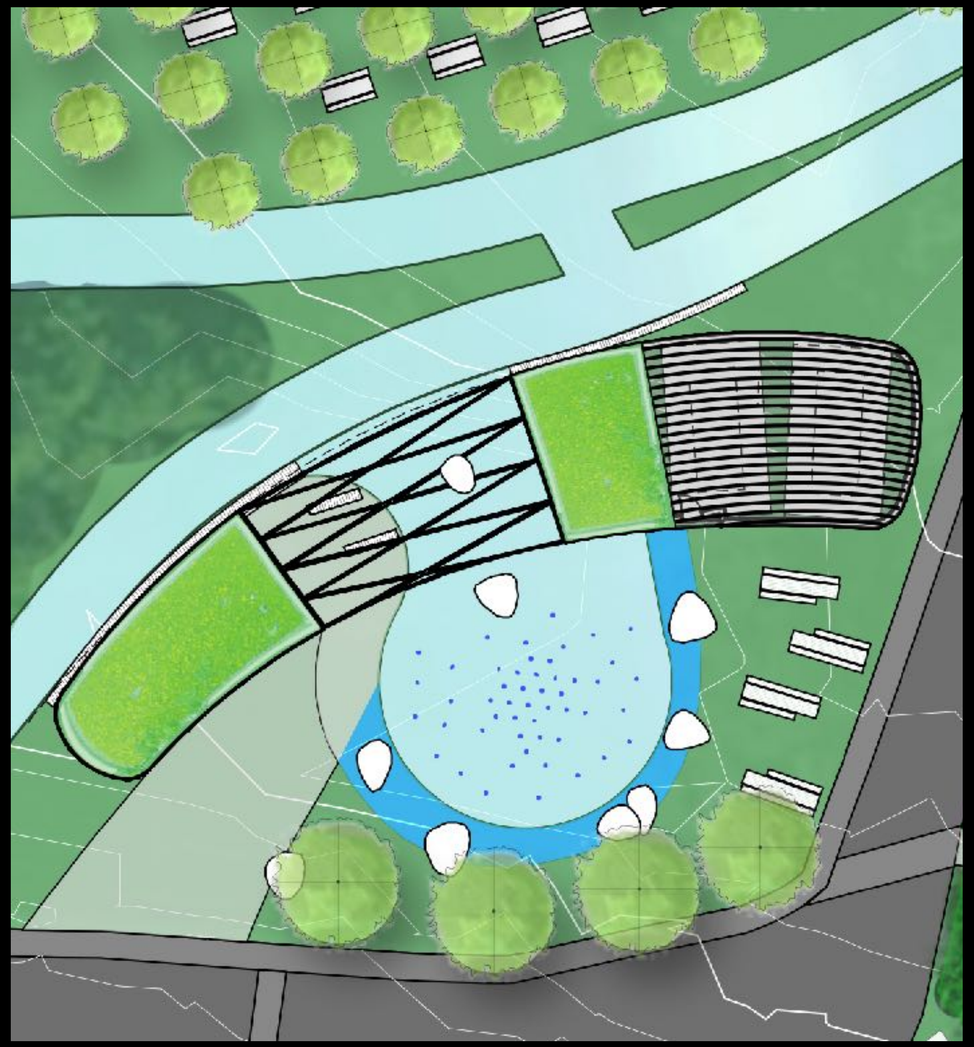
SKATE TRAIL, SPLASH PAD & PAVILION

ICE INFRASTRUCTURE



ICE/SPLASH PAD SITE

SPLASH PAD CONCEPT

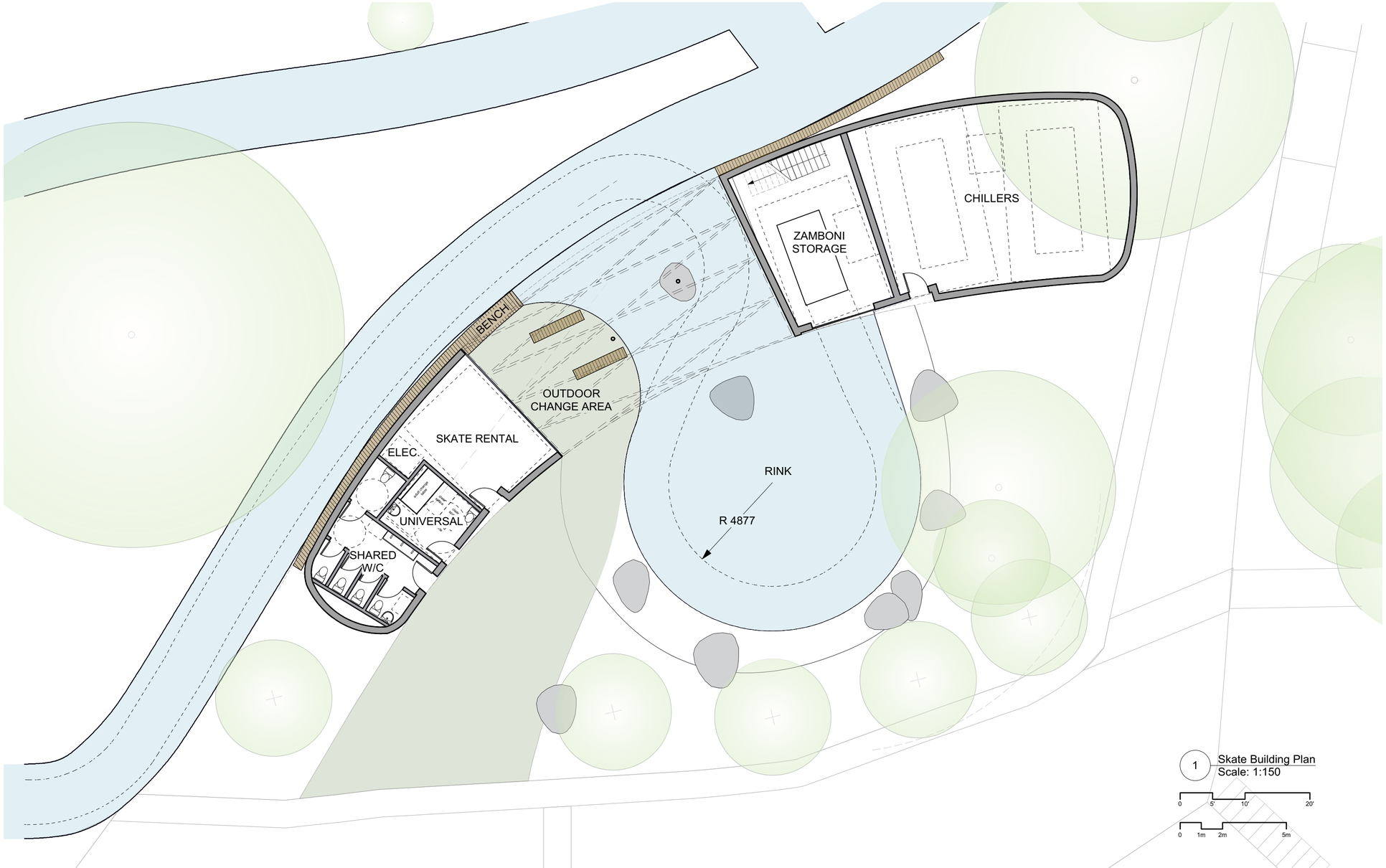


Wet plaza with seating and overlooks

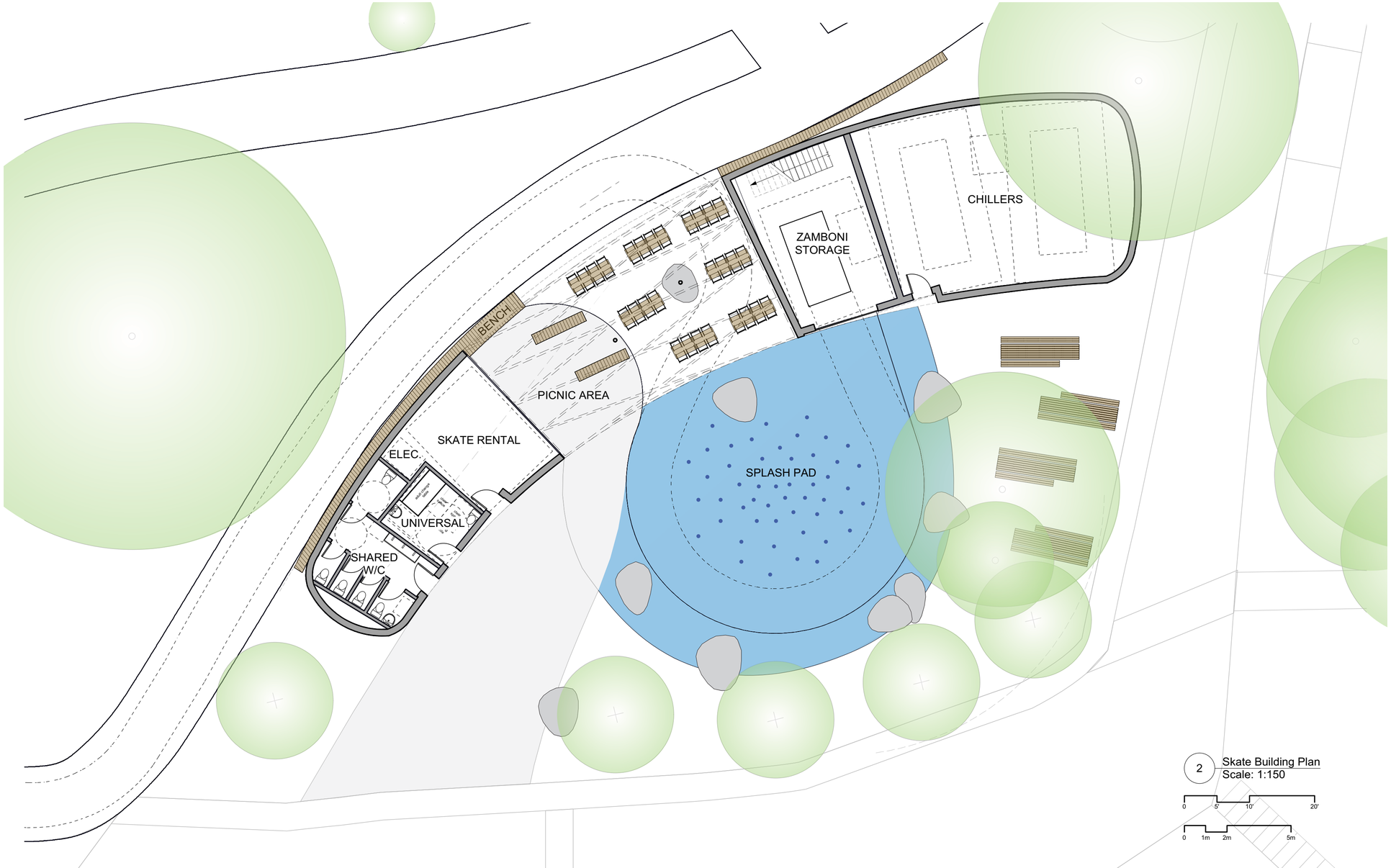
SPLASH PAD PRECEDENTS

Plaza surface as an art piece, stones with some shape and can be play things when no water

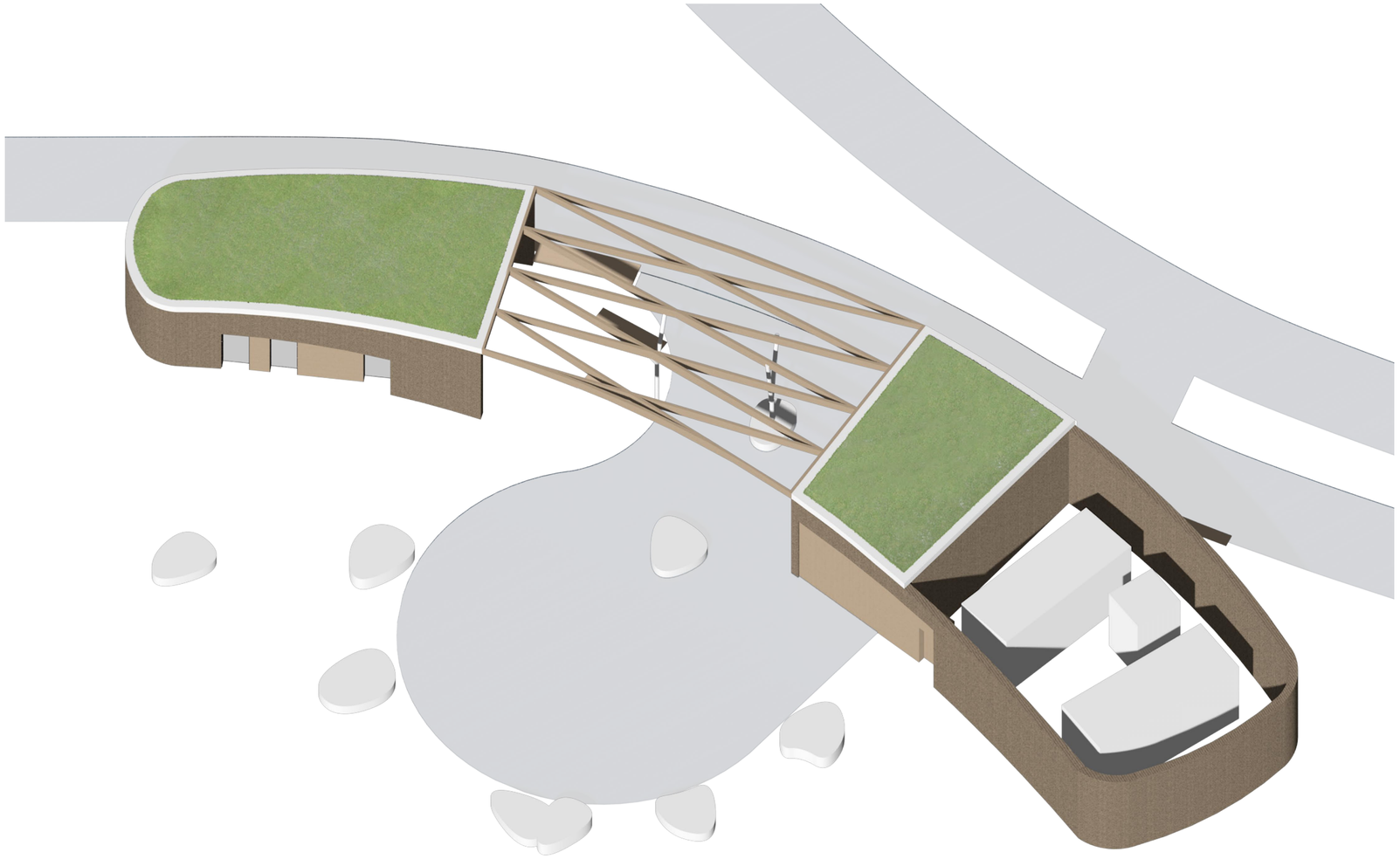
SKATE PAVILION WINTER



SKATE PAVILION SUMMER



SKATE PAVILION



SKATE PAVILION

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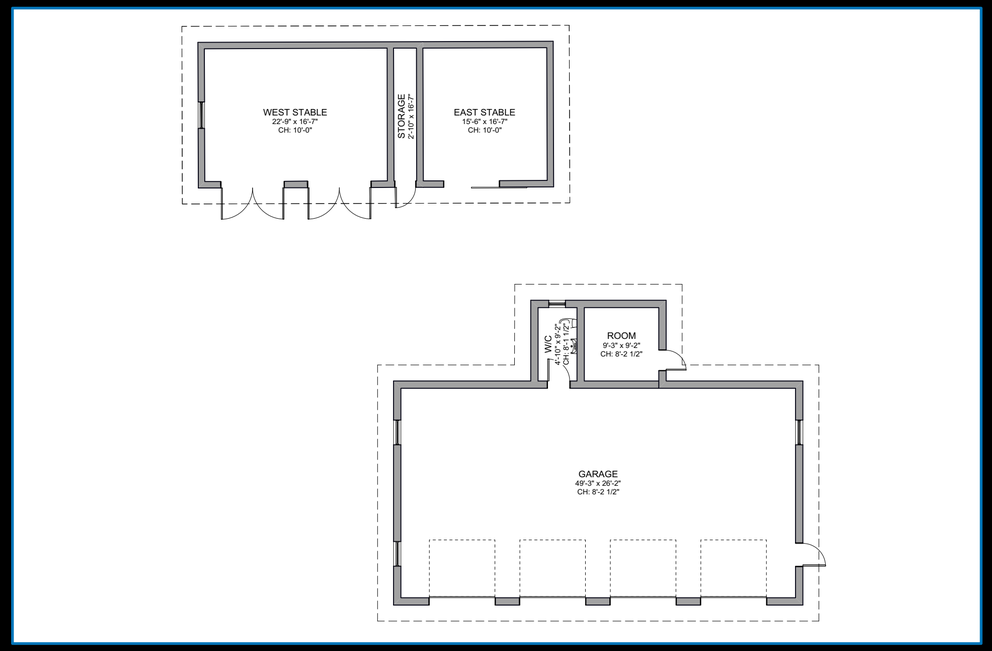
CONSERVATORY & DIVERSITY GARDENS

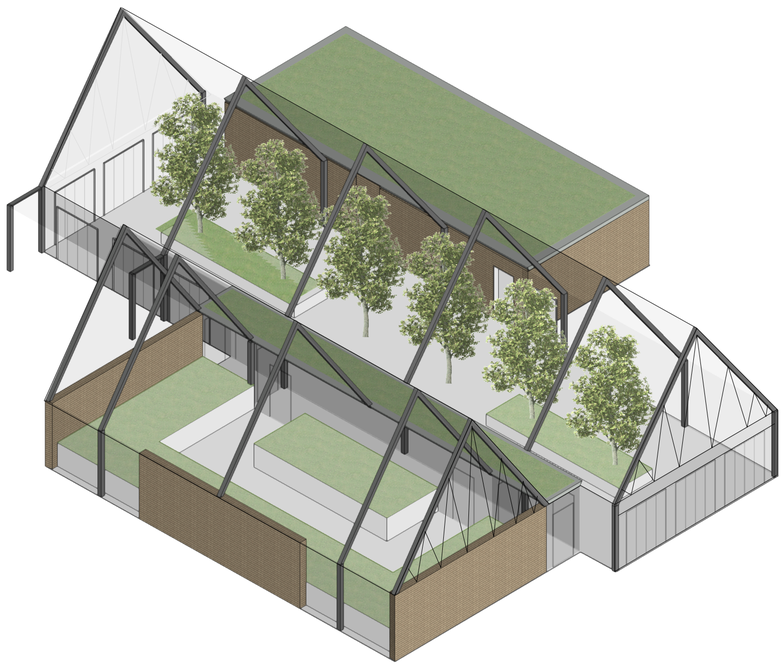
CONSERVATORY SITE

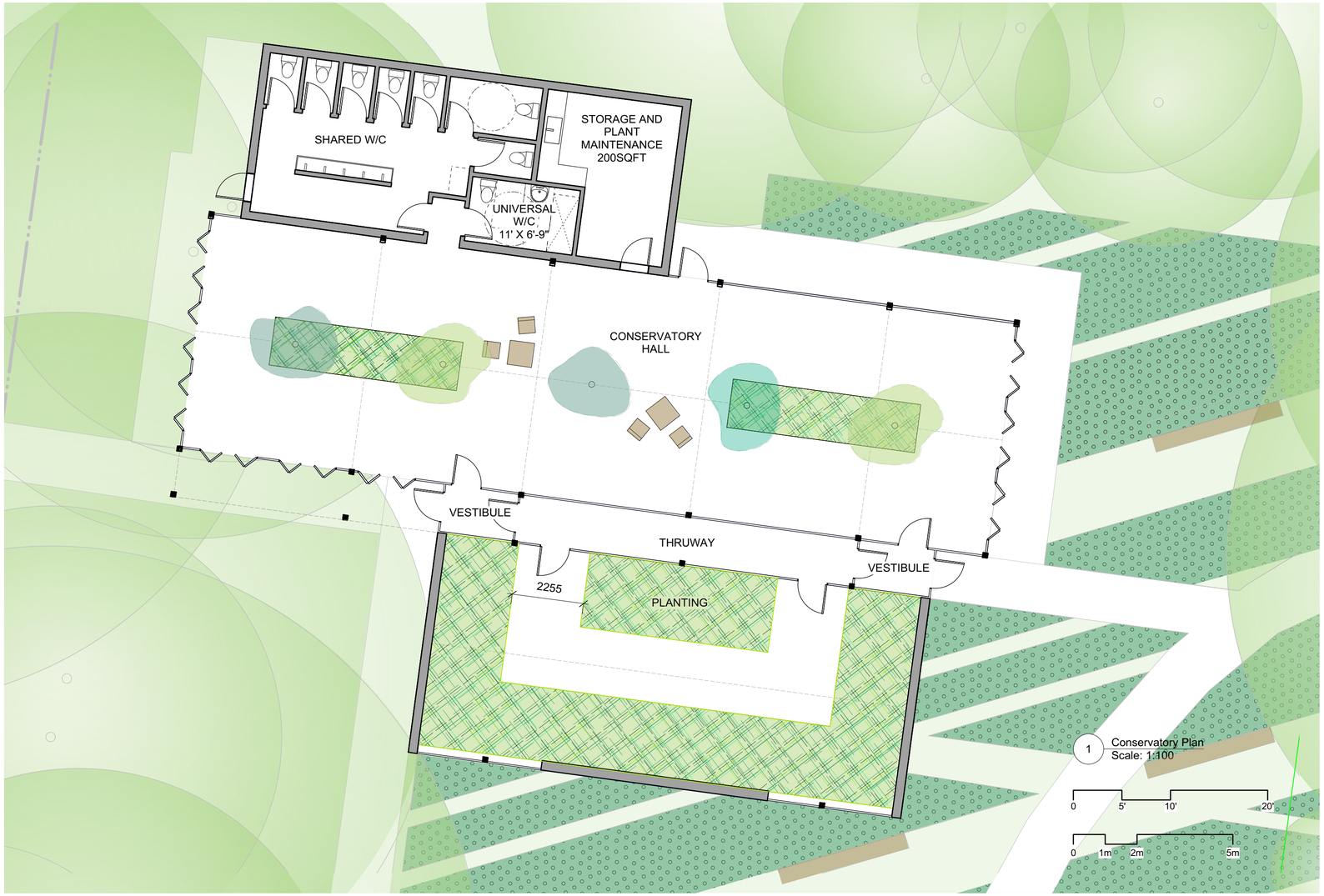


CONSERVATORY CONCEPTS

Indoor/outdoor experience, views of the sky and tree canopy, wood and metal structure tree like

CONSERVATORY





CONSERVATORY

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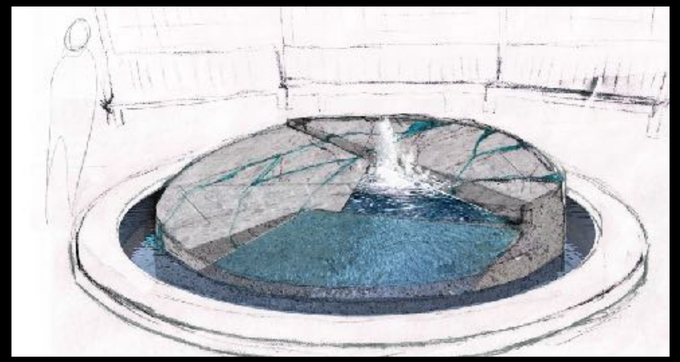
ARTIST RESIDENCY & HISTORIC GARDEN

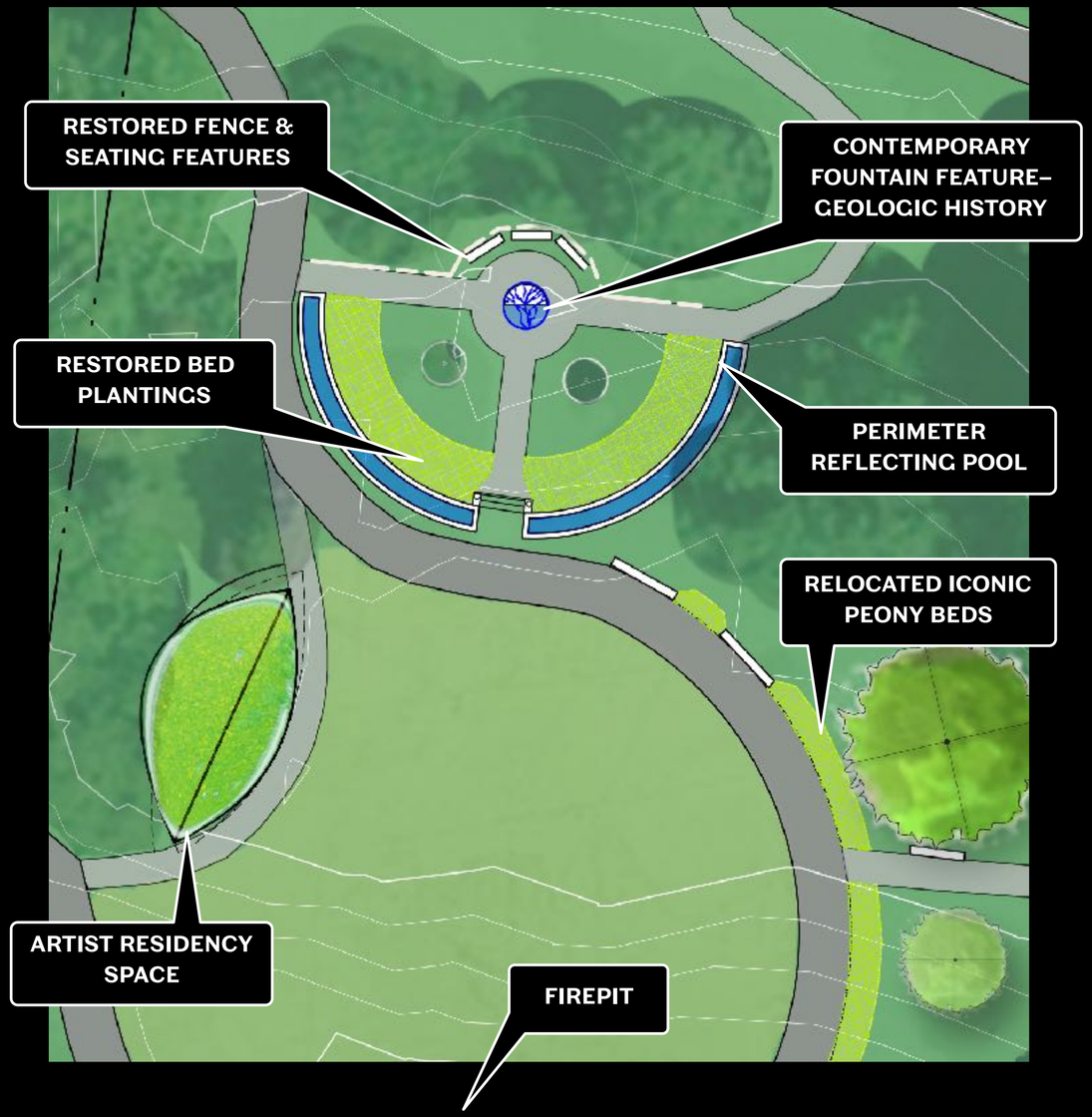
HISTORIC FOUNTAIN SITE

REFLECTING POOL SITE

ARTIST RESIDENCY SITE

HISTORIC GARDEN WATERWORKS

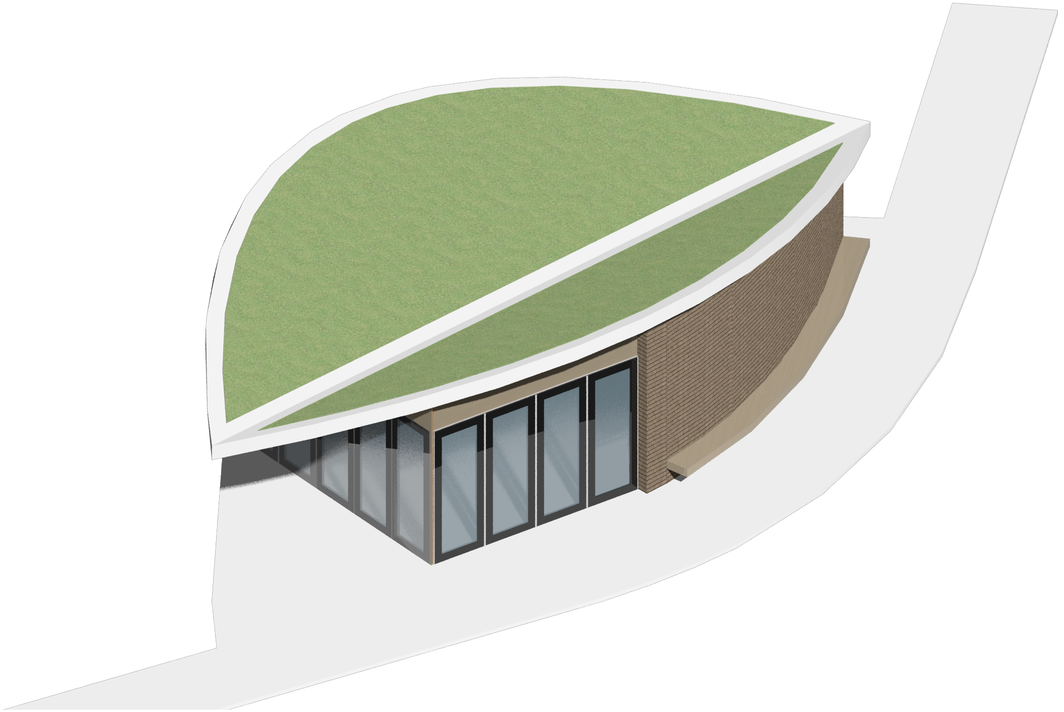


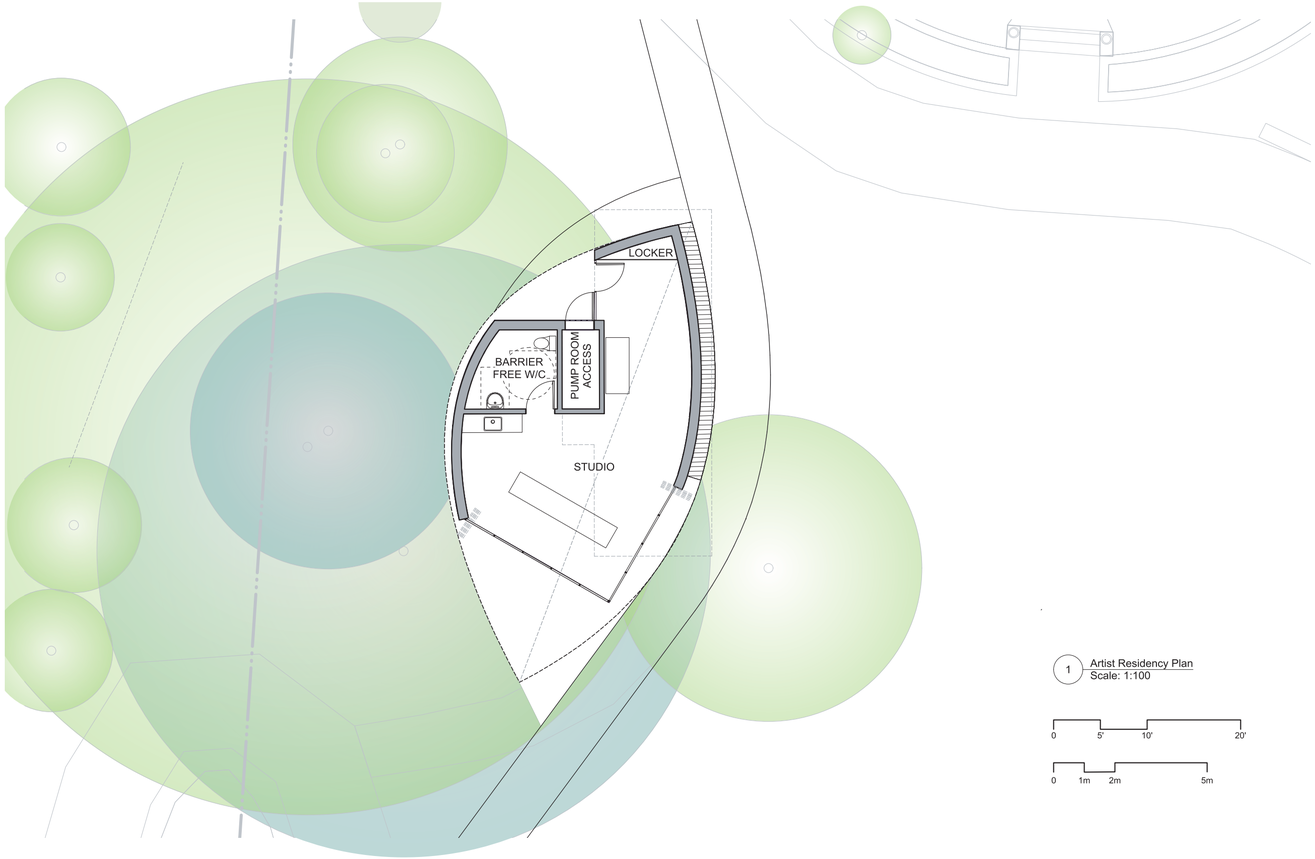


Calm, elegant, reflecting, rippling with glacial stone sculpture

ARTIST RESIDENCY PRECEDENTS

ARTIST RESIDENCY





ARTIST RESIDENCY

ARTIST RESIDENCY

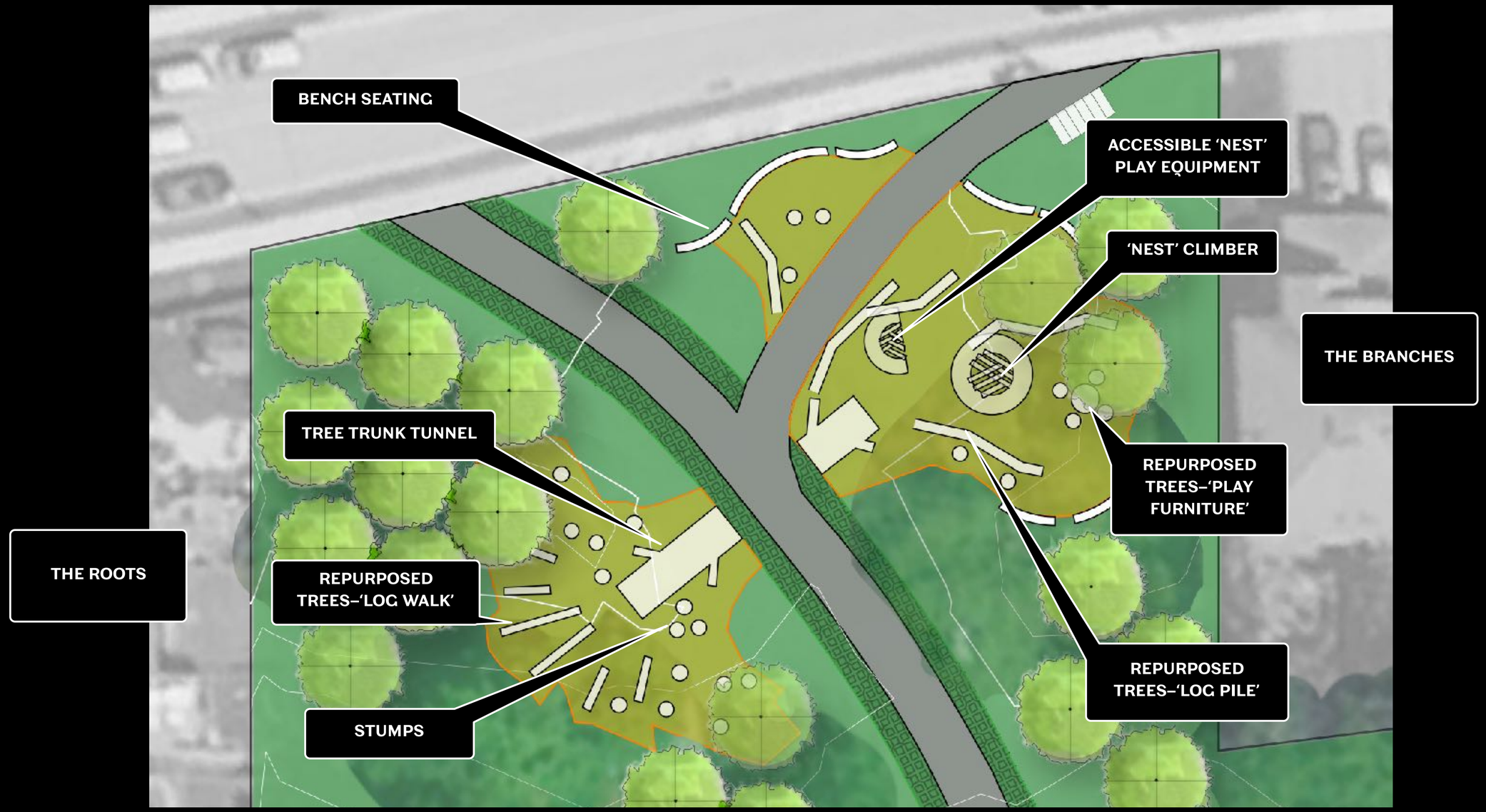
ARTIST RESIDENCY

6

JIM BOND & NATURAL PLAYGROUND

NATURAL PLAY CONCEPTS

THE TREE PLAYGROUND



SUSTAINABILITY

SUSTAINABILITY

Energy

- Targeting - worth town's emerging energy targets
- Commit to partnership with green energy, evaluate possible on site generation – ground source heat pump, parking lot solar panels
- Mimimzie energy uses for light/fountain with programming and controls

Material Strategy

- Local, reuse from the site - wood appropriate uses (walnut interior, cedar exterior.etc)
- Minimize non permeable paving

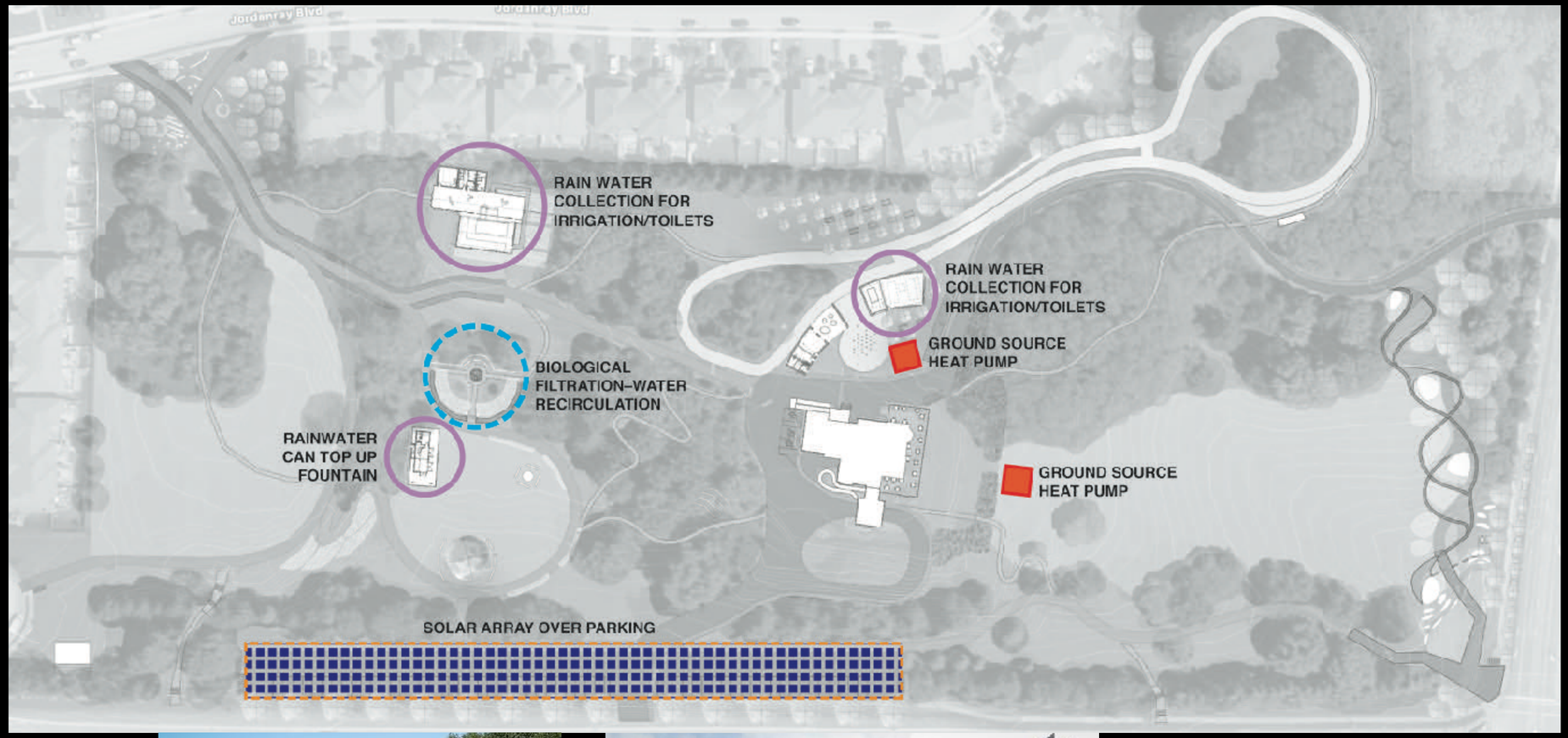
Saving water

- Rainwater collection and reuse – irrigation or top up for biologically treated fountains
- Reuse of grey water has costs – explore in implementation
- All fountains recirculating
- Slow storm water impacts - green roofs, rainwater collection

Integrated Design Process/Construction Process

- In implementation

SUSTAINABILITY



Rain gardens or infiltration basins

- Depending on local soil conditions
- At stormwater runoff source points throughout the site esp – roof drainage at artists' residence + main house – reduces overall peak flows and time to peak over the entire site.

Overall site:

- Stormwater quality and quantity control in engineered wetland
- Public education opportunity

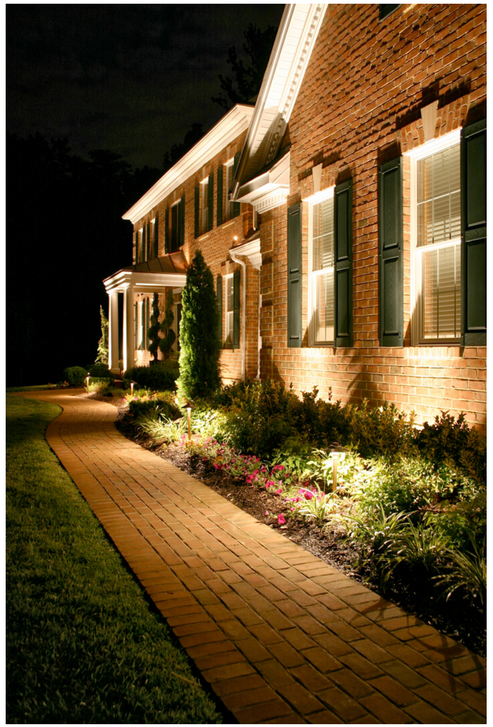
LIGHTING

MBL

MULOCK ESTATE LANDSCAPE LIGHTING STRATEGY

SCHEMATIC DESIGN

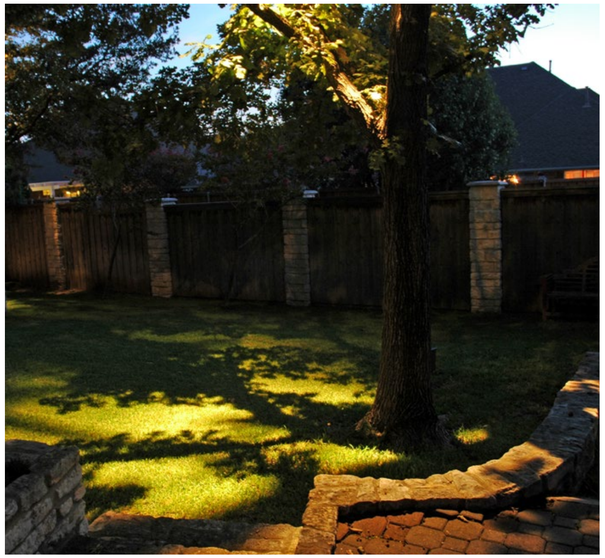
01/20/2020



REFERENCE IMAGES

MULOCK ESTATES LANDSCAPE LIGHTING STRATEGY

MBL



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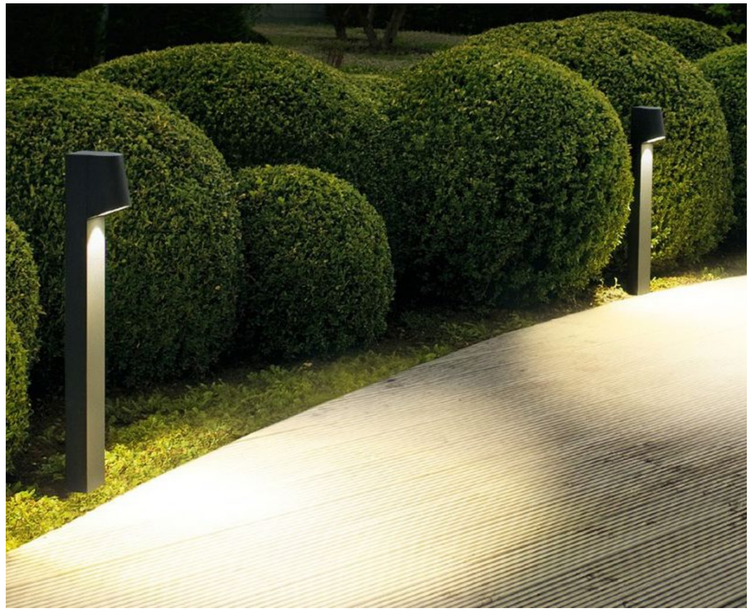
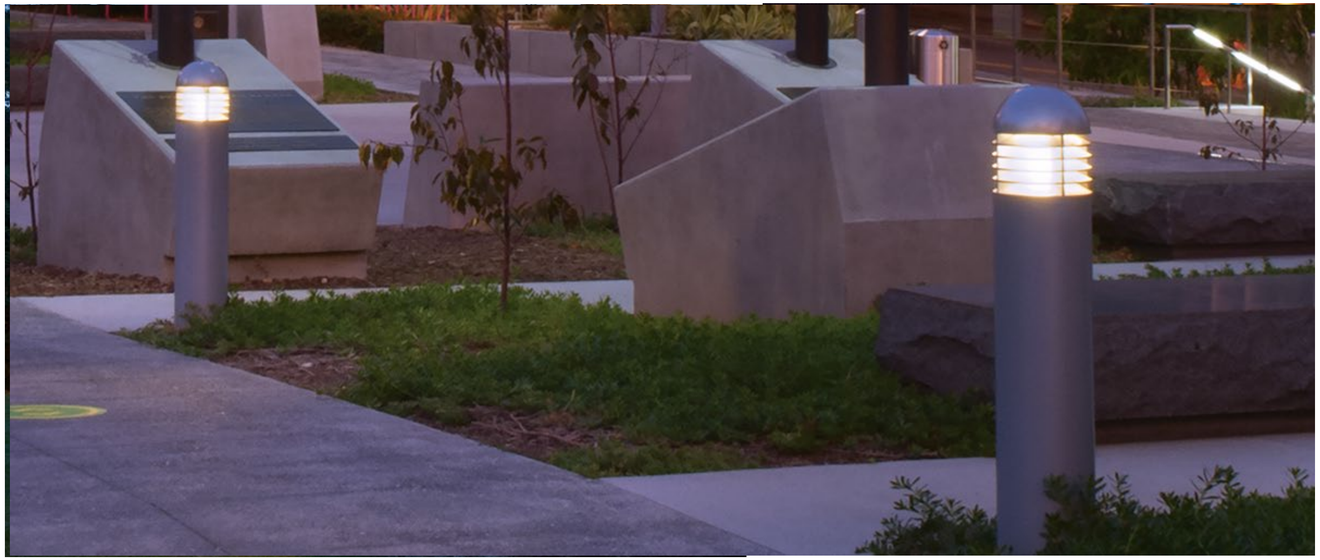




REFERENCE IMAGES

LUMINAIRE – HIERARCHY AND SCALE

AVERAGE TARGETED LIGHT LEVELS

Nature Interpretation / Estate	15-20 Lux
Skate Trail	10-15 Lux
Vehicles Roads	10-15 Lux
Trail – Main	10 Lux
Trail – Secondary	5 Lux
No Light Zone	

LIGHT LEVELS

MULOCK ESTATES LANDSCAPE LIGHTING STRATEGY

MBL

THE 5 PILLARS

- **ROOTED IN HISTORY**
  - Lighting design will reflect the natural setting of Mulock Estate and exhibit various layers of lighting moods
  - Lighting fixtures will be specified with subtle natural looking elements and the materials will blend in with the landscape
  - Highlighting the house façade will centralize the focus and connect all the unique elements of the park together.

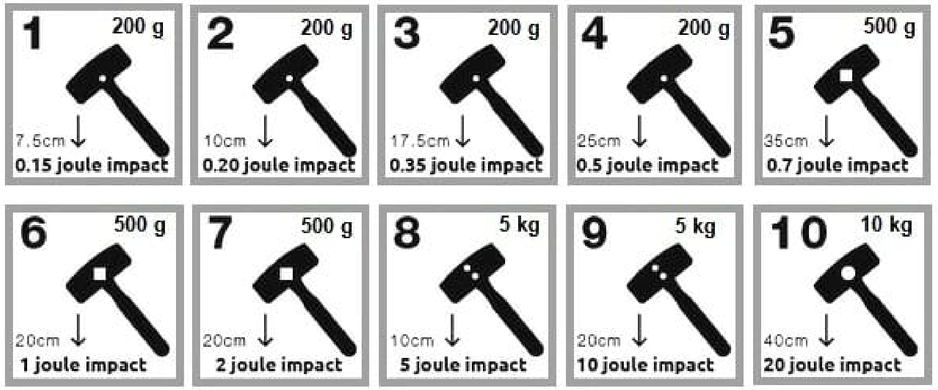
- **A DESTINATION**
  - This specific lighting will showcase and highlight all 4 seasons throughout the year
  - Mulock Drive and Yonge Street will become an attractive and welcoming place to meet family and friends
  - Enhanced opportunities for Art Works, and Light Walks, plus available electrical infrastructure for temporary events

- **INCLUSIVE AND ACCESSIBLE**
  - Lighting will promote a safe, enjoyable and accessible atmosphere
  - Lighting design will create a comfortable atmosphere for public and private events

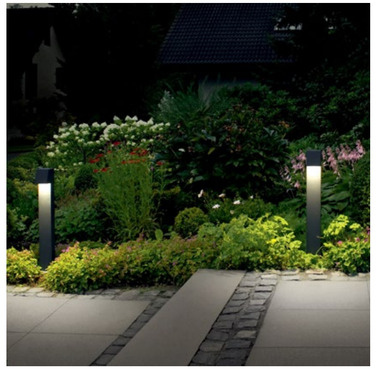
- **NATURAL FEATURES**
  - Paths, and trellises will be highlighted to enhance the natural feel of the park
  - Lighting fixtures will be specified with focused optical distributions to eliminate sky glow
  - Lighting levels kept at a minimum in respect for the circadian rhythms of wildlife

- **CONNECTIONS**
  - A sense of hierarchy will be designed though various layers of light in combination with outbuildings as beacons
  - Smooth lighting transitions will be added to the each area and path of the park
  - Lights will connect the neighboring park -*Jim Bond Park*, and bring together local communities, and people
  - Lighting will highlight the park entries as beacons

IK Rating - Impact Resistance



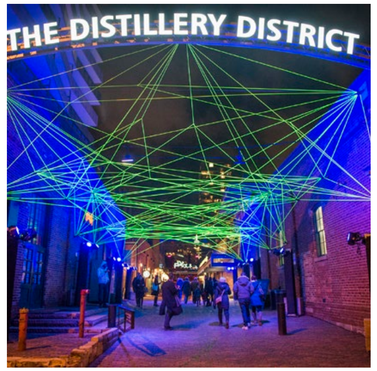
- **VANDAL-RESISTANT BOLLARDS**
  - Low level luminaires can be subject to vandalism in unsecured areas. The Vandal resistant bollards are engineered to provide superior strength through extra thick components and bast-to-grade connections that withstand considerable force.
  - IK10 - Highest rating possible for resistance to damage.



VANDAL RESISTANT BOLLARDS RATINGS

- **TEMPORARY POWER CONSIDERATIONS**
  - Electricity is one of the most important components of any special event or show.
  - Above-ground power boxes with outlets (pedestals)
  - Pedestals for generators and electrical distribution boxes
  - Integrated GFCI receptacles in poles and bollards

- **SPECIAL EVENT EXAMPLES**
  - Concerts
  - Outdoor Weddings
  - Movie Nights
  - Festivals
  - Movie Productions



INFRASTRUCTURE FOR POWER

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FAÇADE LIGHTING

MULOCK ESTATES LANDSCAPE LIGHTING STRATEGY

MBL

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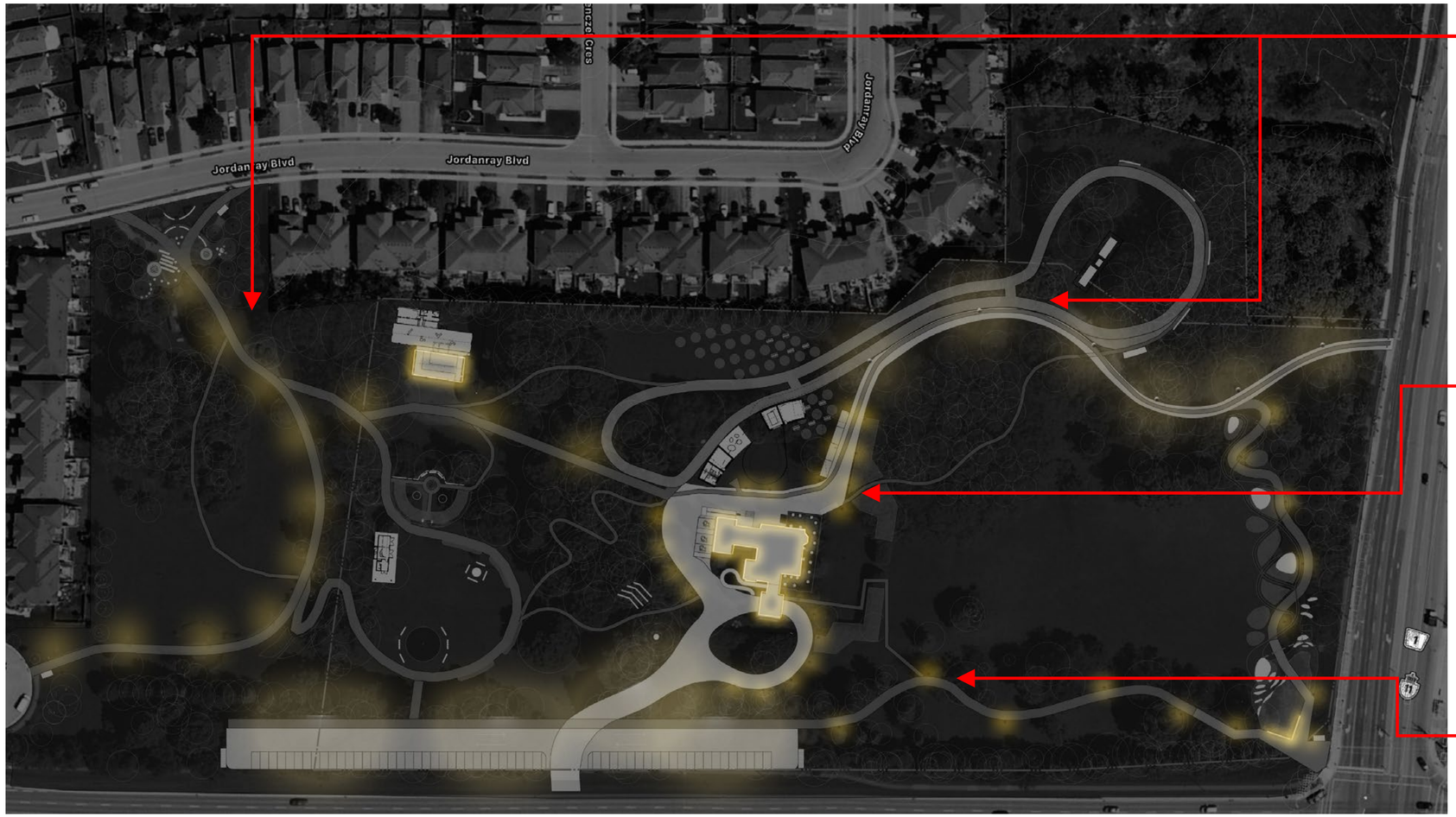

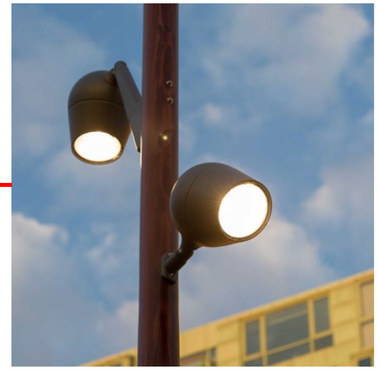

ENTRANCES AND MAIN TRAILS

MULOCK ESTATES LANDSCAPE LIGHTING STRATEGY

MBL

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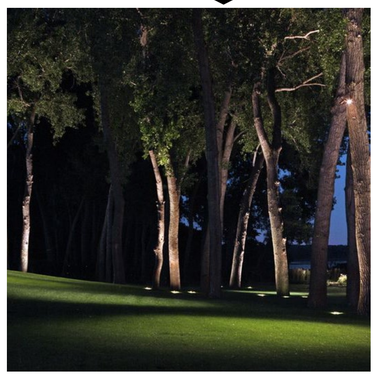

SECONDARY TRAILS

MULOCK ESTATES LANDSCAPE LIGHTING STRATEGY

MBL

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SKATE TRAIL EXPERIENCE

MULOCK ESTATES LANDSCAPE LIGHTING STRATEGY

MBL

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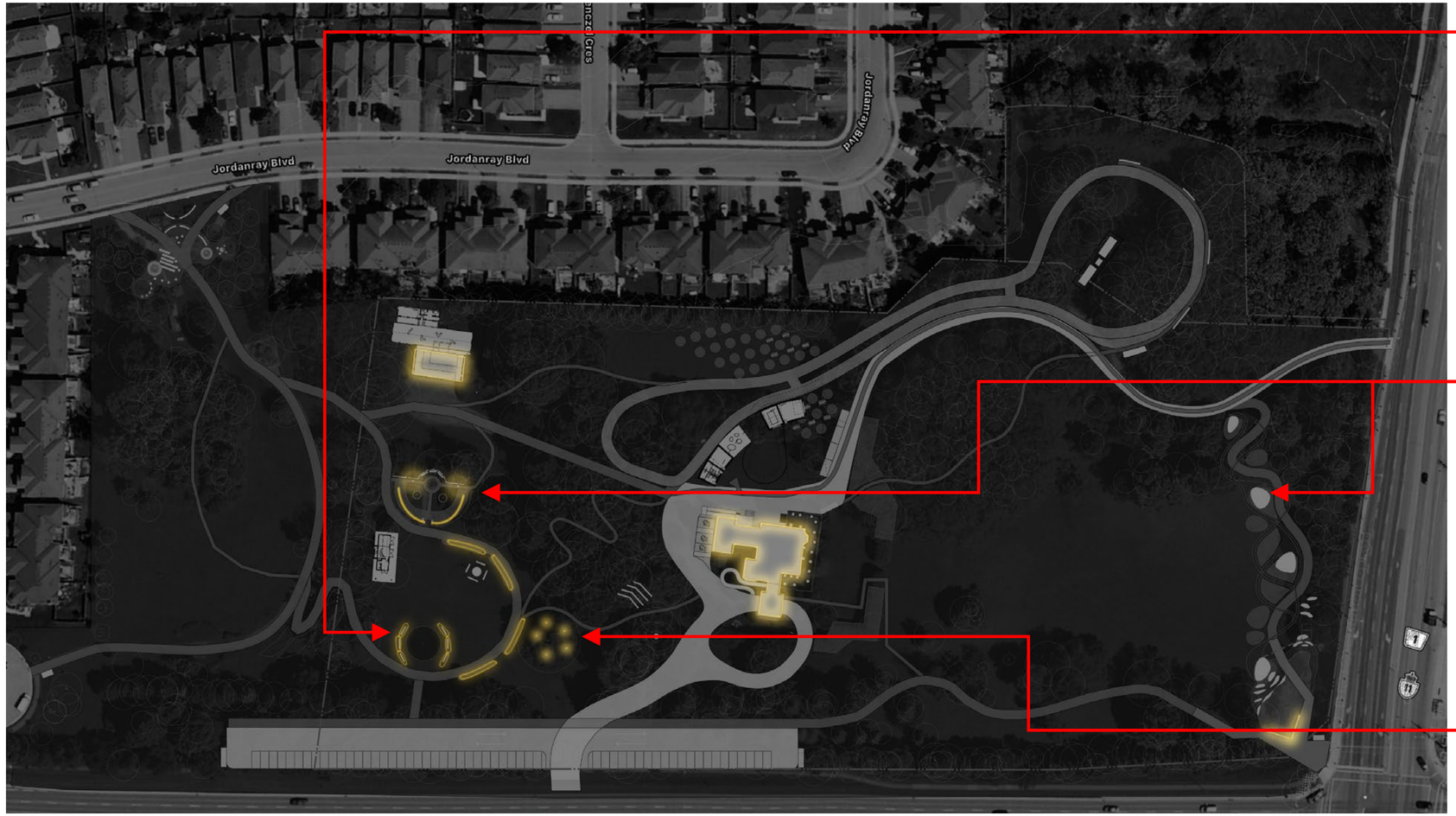
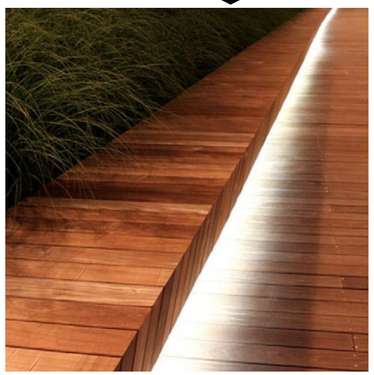




FEATURE LIGHTING

MULOCK ESTATES LANDSCAPE LIGHTING STRATEGY

MBL

ELECTRICAL ROOM

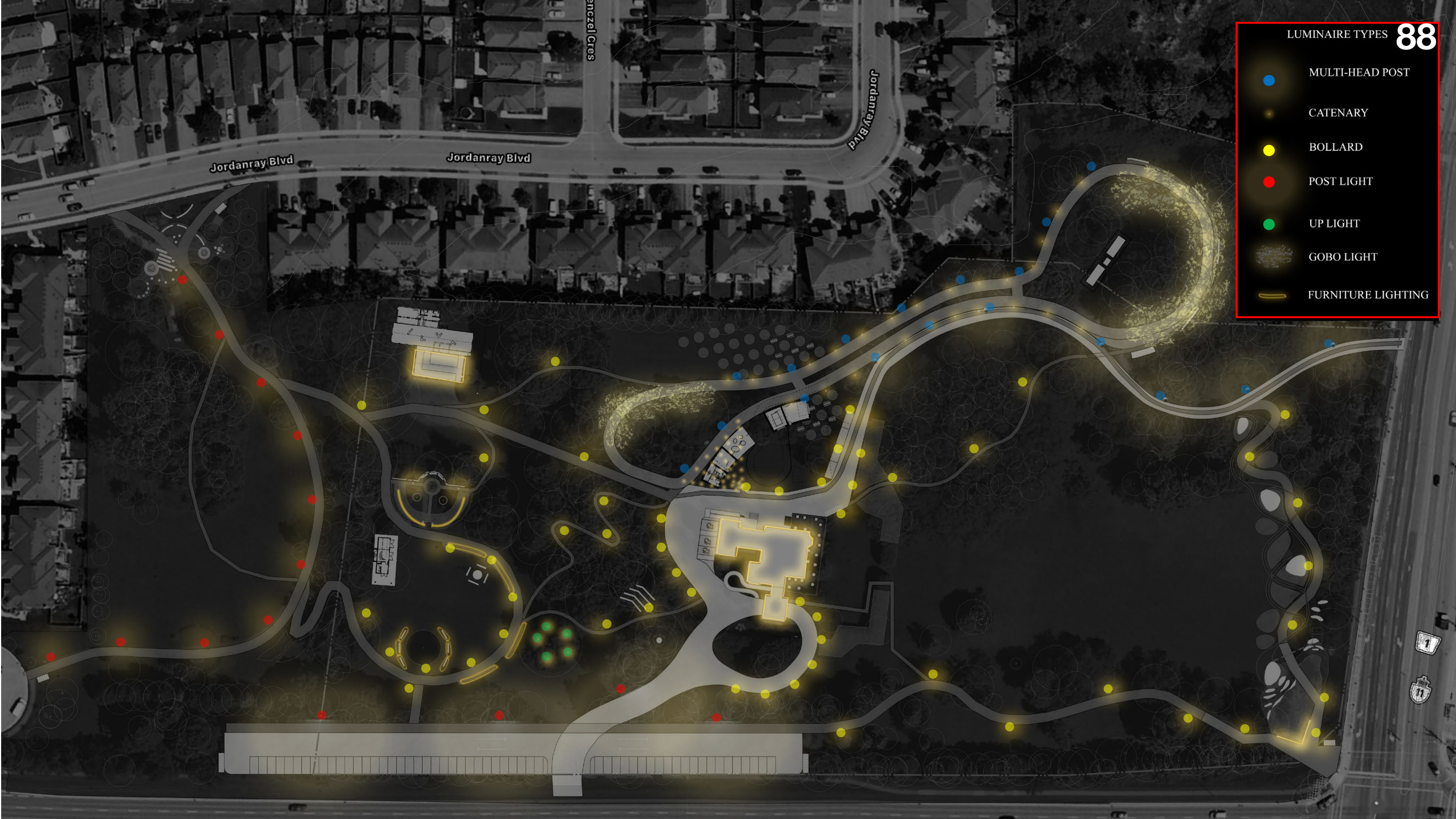
EXISTING POWER

POWER PEDESTALS

ELECTRICAL INFRASTRUCTURE

MULOCK ESTATES LANDSCAPE LIGHTING STRATEGY

MBL


LUMINAIRE TYPES
88
MULTI-HEAD POST
CATENARY
BOLLARD
POST LIGHT
UP LIGHT
GOBO LIGHT
FURNITURE LIGHTING
Jordanray Blvd
Jordanray Blvd
Jordanray Blvd
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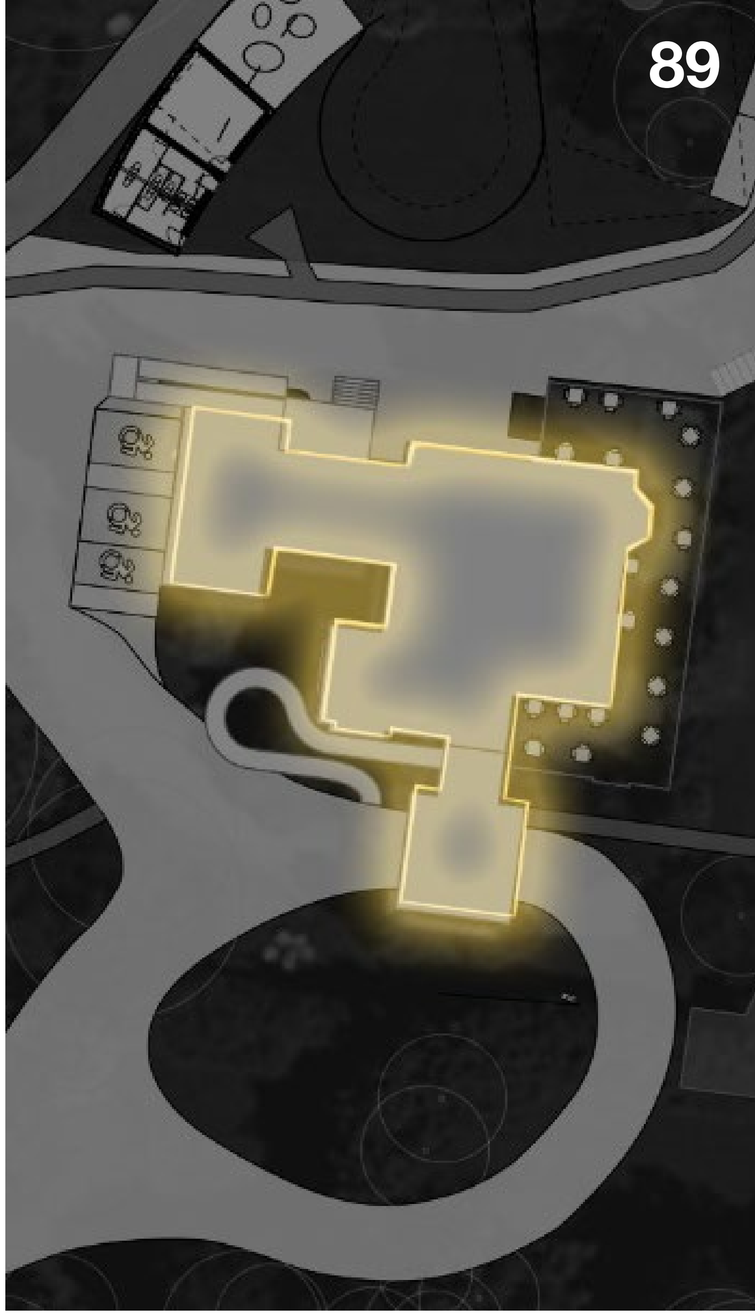

CENTRAL BEACON

MULOCK ESTATES LANDSCAPE LIGHTING STRATEGY

LIGHTING TESTS

LIGHTING TESTS (BEACON SIGHTLINES)

LIGHTING TESTS (HEDGES, TEXTURES, AND BEACON)

NEXT STEPS

- Budget Costing
- Next Task Force Feb 25/2021
- PIC Mar 11/2021
- Master Plan Document Circulation Mar/April
- Council Approval of Master Plan April 19/2021

QUESTIONS

PLANT