

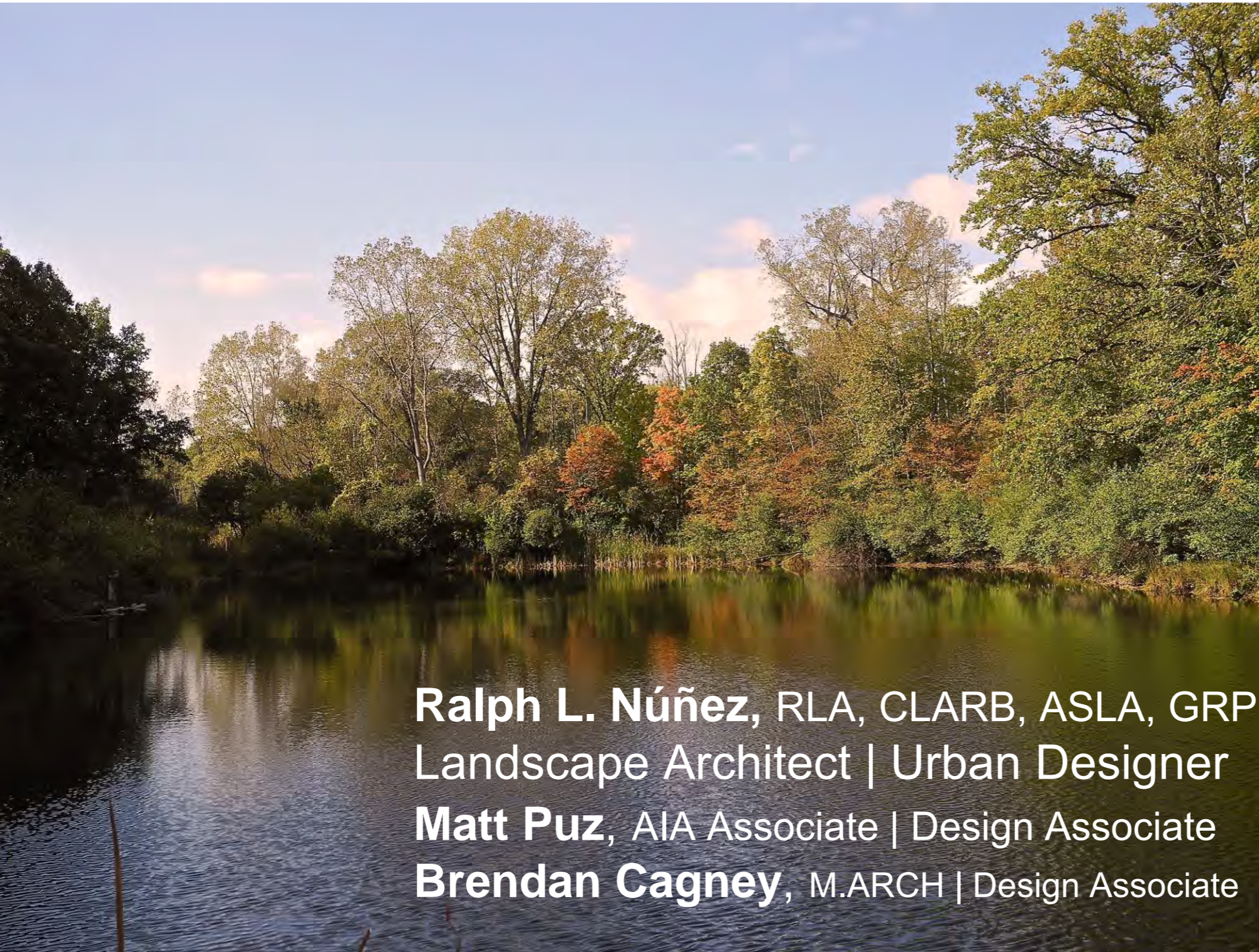


APPENDIX D
RIVERBEND PARK
STRATEGIC FRAMEWORK PLAN

PUBLIC REVIEW DRAFT

RIVERBEND PARK

STRATEGIC FRAMEWORK PLAN



Ralph L. Núñez, RLA, CLARB, ASLA, GRP
Landscape Architect | Urban Designer
Matt Puz, AIA Associate | Design Associate
Brendan Cagney, M.ARCH | Design Associate

1/25/2016



Architecture Landscape Architecture
Interior Design Urban Design

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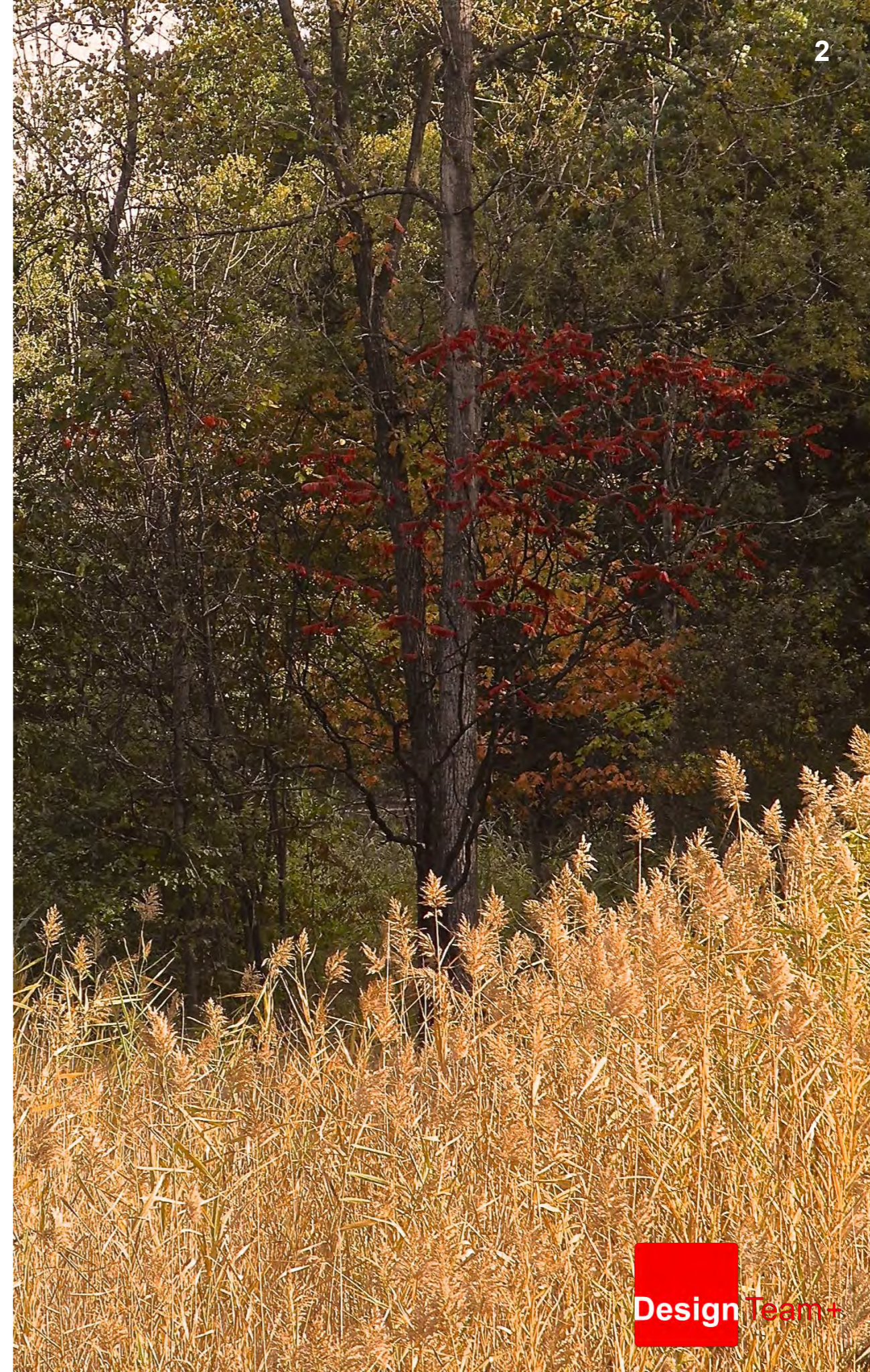
FRAMEWORK PLAN - PARK ELEMENTS

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- SUMMARY

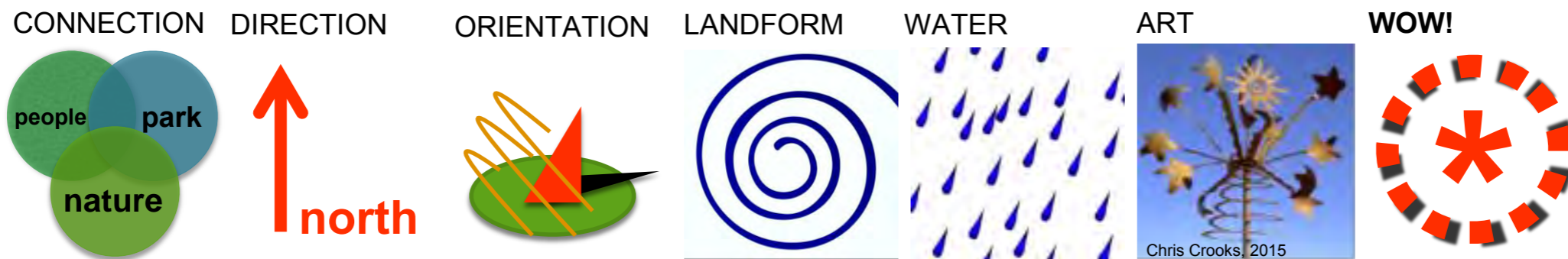
SHARING THE VISION



DESIGN INTENT RIVERBEND PARK

Strategic Framework Plan

The design intent for RIVERBEND PARK is to create a unique recreational park by utilizing the site's natural assets, promoting sustainability through the preservation of open space and the continued stewardship of land and river. Interactive art and amenities change depending upon when they are viewed, making the park different during each visit. RIVERBEND PARK is designed to provide an exceptional recreational experience for park users to, **E**xplore, **E**ngage, **E**ducate and **E**njoy nature as the park continues to **E**volve.



EXERCISE | **E**XPLORE | **E**NGAGE | **E**XPERIENCE | **E**DUCCATE | **E**VOLVE
ENJOY!

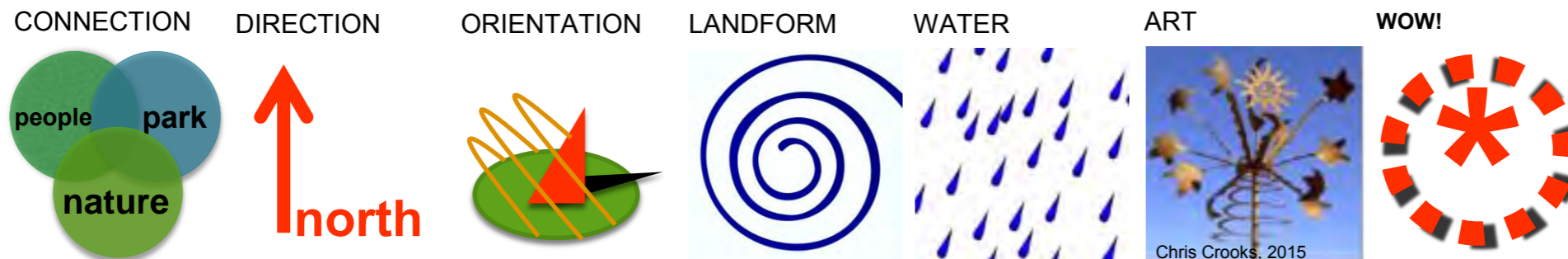
RIVERBEND PARK

STRATEGIC FRAMEWORK PLAN



DESIGN PRINCIPLES RIVERBEND PARK

- CREATE UNIQUE RECREATIONAL OPPORTUNITIES “Make a Mark”
- CONNECT - PEOPLE TO THE PARK, PEOPLE TO NATURE
- STEWARDSHIP OF THE LAND & CLINTON RIVER
- IMPROVE THE HEALTH OF THE COMMUNITY
- DESIGN FOR ALL AGES & ABILITIES
- USE KINETIC ART TO INTERACT WITH VISITORS MAKING THEM PART OF THE ART.
- DESIGN PHASED AMENITIES
- PLACE-MAKING - CREATE A PLACE FOR PEOPLE TO HAVE FUN



EXERCISE | **E**XPLORE | **E**NGAGE | **E**XPERIENCE | **E**DUCCATE | **E**VOLVE
ENJOY!

RIVERBEND PARK

STRATEGIC FRAMEWORK PLAN



OUTREACH & DESIGN WORKSHOPS RIVERBEND PARK



DESIGN WORKSHOP



DESIGN WORKSHOP



PARK TOUR

MEETINGS AND WORKSHOPS:

- 6/26/15 – RIVERBEND DONOR MEETING - w/ Donor & Engineer
- 6/30/15 – WORKSHOP MEETING – City Steering Committee
- 7/07/15 – WORKSHOP MEETING – City Employees & Public
- 7/07/15 – FOCUS GROUP - EDUCATORS MEETING – Area Educators
- 7/14/15 – RIVERBEND SITE TOUR – Steering Committee & City Employees
- 7/21/15 – PLANNING COMMISSION MEETING - Introduction
- 7/28/15 – OPEN DESIGN WORKSHOP - City Employees & Public
- 8/17/15 – MEETING / CONCEPT PRESENTATION - Mayor & City Department Heads
- 9/04/15 – PROJECT STATUS REVIEW - Planning Director Introduction
- 9/15/15 – CONCEPT PRESENTATION - City and Steering Committee
- 10/05/15 – MEETING / Water Feature Presentation - With Donor
- 10/13/15 – PRESENTATION - Planning Commission & Steering Committee Meeting - Introduction & Voting
- 10/23/15 – CONCEPT PRESENTATION - LT. GOVERNOR @ Park
- 11/18/15 – GRANT APPLICATION MEETING - For Sensory Garden & Natural Play Area
- 1/25/16 – PRESENTATION - City Council and Public

RIVERBEND PARK

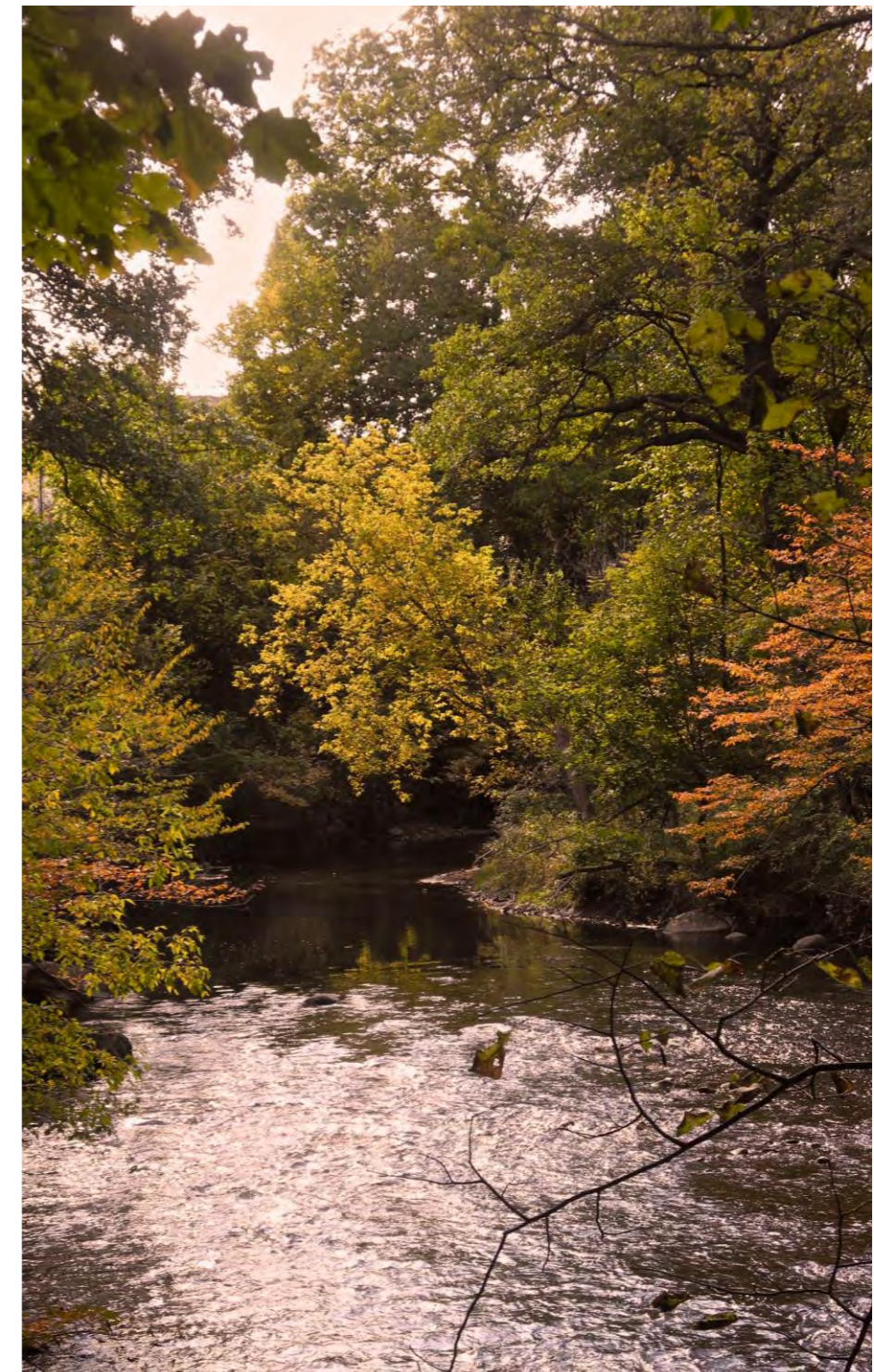
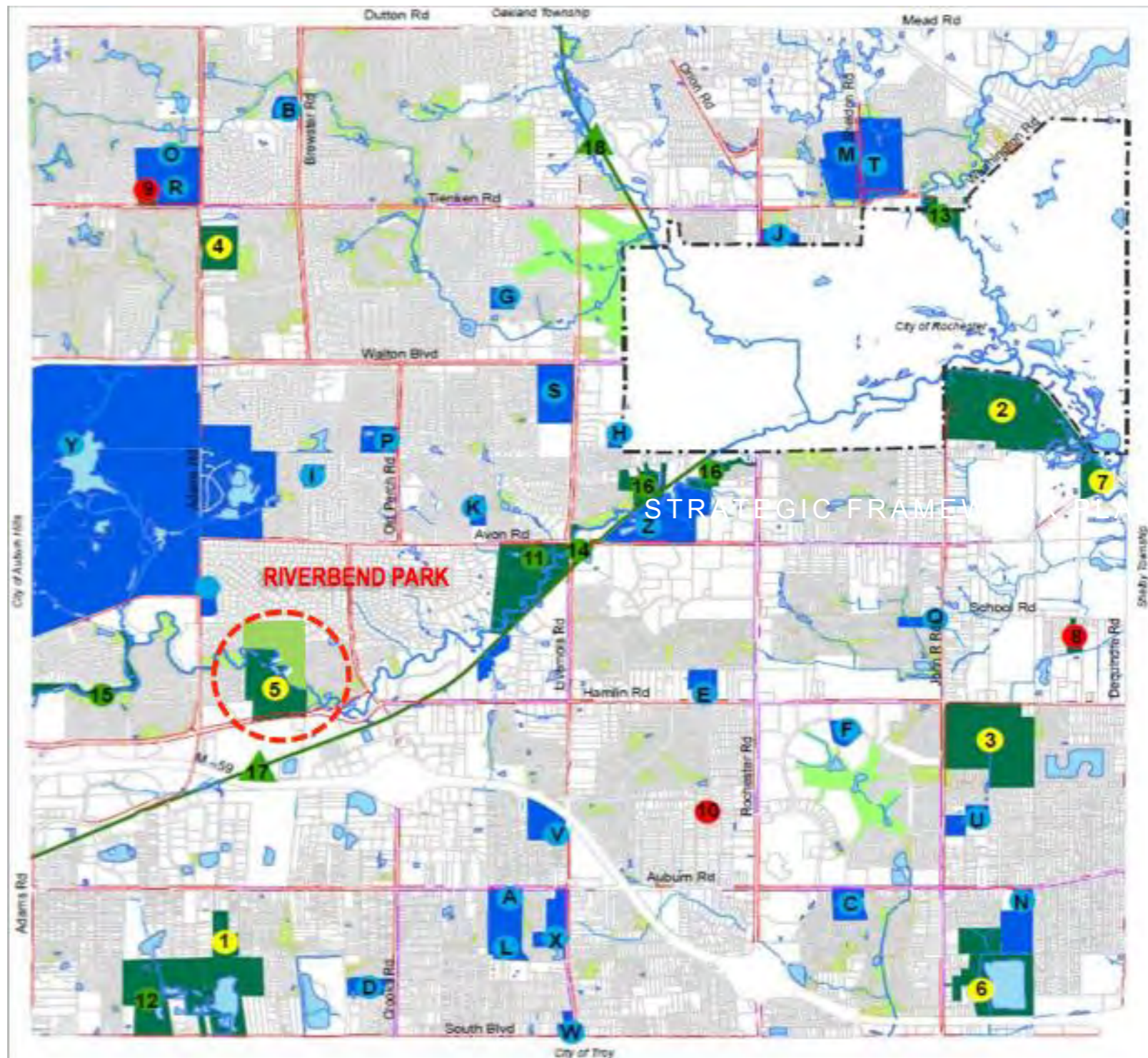
STRATEGIC FRAMEWORK PLAN



ANALYSIS



ROCHESTER HILLS PARK & RECREATION MAP



CLINTON RIVER TRAIL MAP



POINTS OF INTEREST

Point of Interest	Category	Value 1	Value 2	Value 3
Opoyke Road Hamlet	V			
Historic Downtown Pontiac	S	✓		✓
Beaudette Park	S	✓	✓	
Sylvan Manor Park	T	✓	✓	

ROAD TO ROAD MILEAGE



Riverbend Park is Located near the Clinton River Trail

RIVERBEND PARK

STRATEGIC FRAMEWORK PLAN



PARK ADJACENCIES



LEGEND

OPEN SPACE OWNED BY ADJACENT NEIGHBORHOODS

- 1 PHEASANT RING
- 2 CLINTON RIVER VALLEY
- 3 HERITAGE OAKS

100' BUFFER STRIP

4 CITY OF ROCHESTER HILLS

UNDEVELOPED LOTS

5 + 6 PRIVATE OWNERSHIP

UTILITY LINE

MARKING OF SEASONS & TIME

SOLAR SOLSTICE | EQUINOX



photo: Adam Woolfit/Wooffin Camp & Assoc.

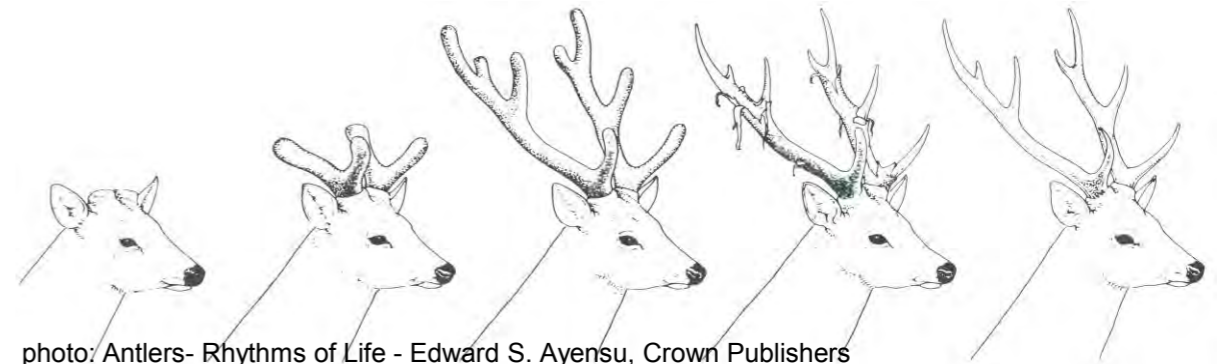


photo: Antlers- Rhythms of Life - Edward S. Ayensu, Crown Publishers

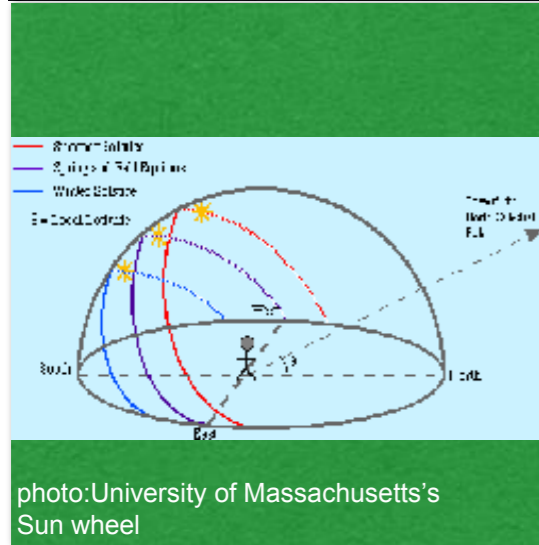


photo: University of Massachusetts's Sun wheel



photo: Tree Section - American Museum of Natural History

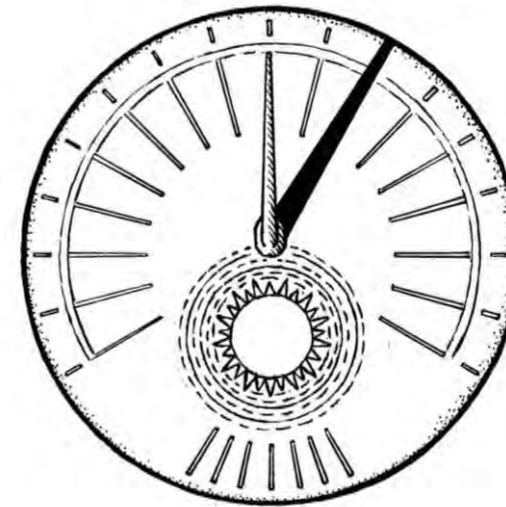


photo: Tree Seasons Bill Blizen



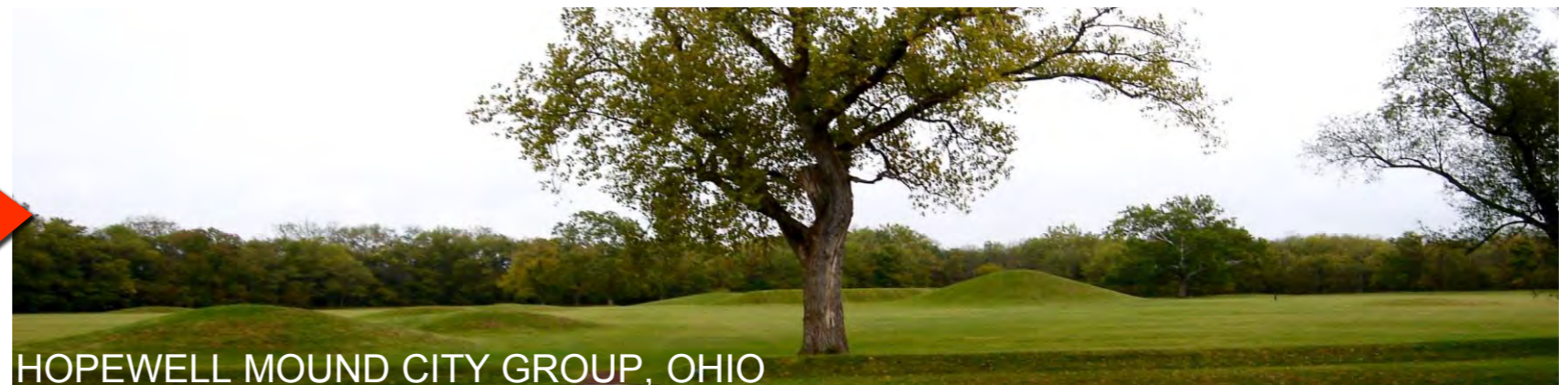
HISTORIC PRECEDENT

Ancient builders illustrated human efforts to modify the land. These mounds were burial sites and places where people gathered. The mounds were aligned with the sun's movement. Artifacts left behind provide us a hint on how they lived.

Mounds in Eastern United States, USA



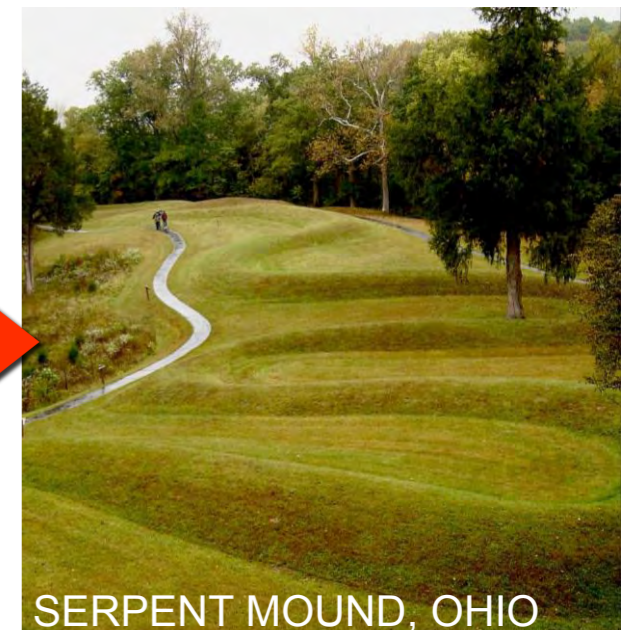
NEWGRANGE, IRELAND



HOPEWELL MOUND CITY GROUP, OHIO



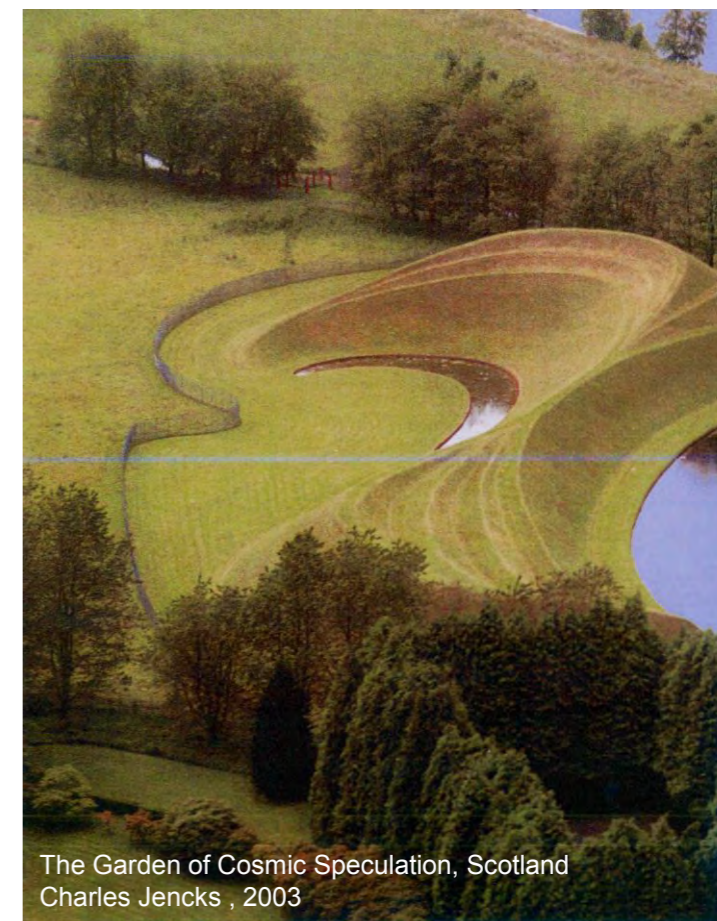
MOUND CITY, OHIO



SERPENT MOUND, OHIO

The mounds attract thousands of visitors per year.

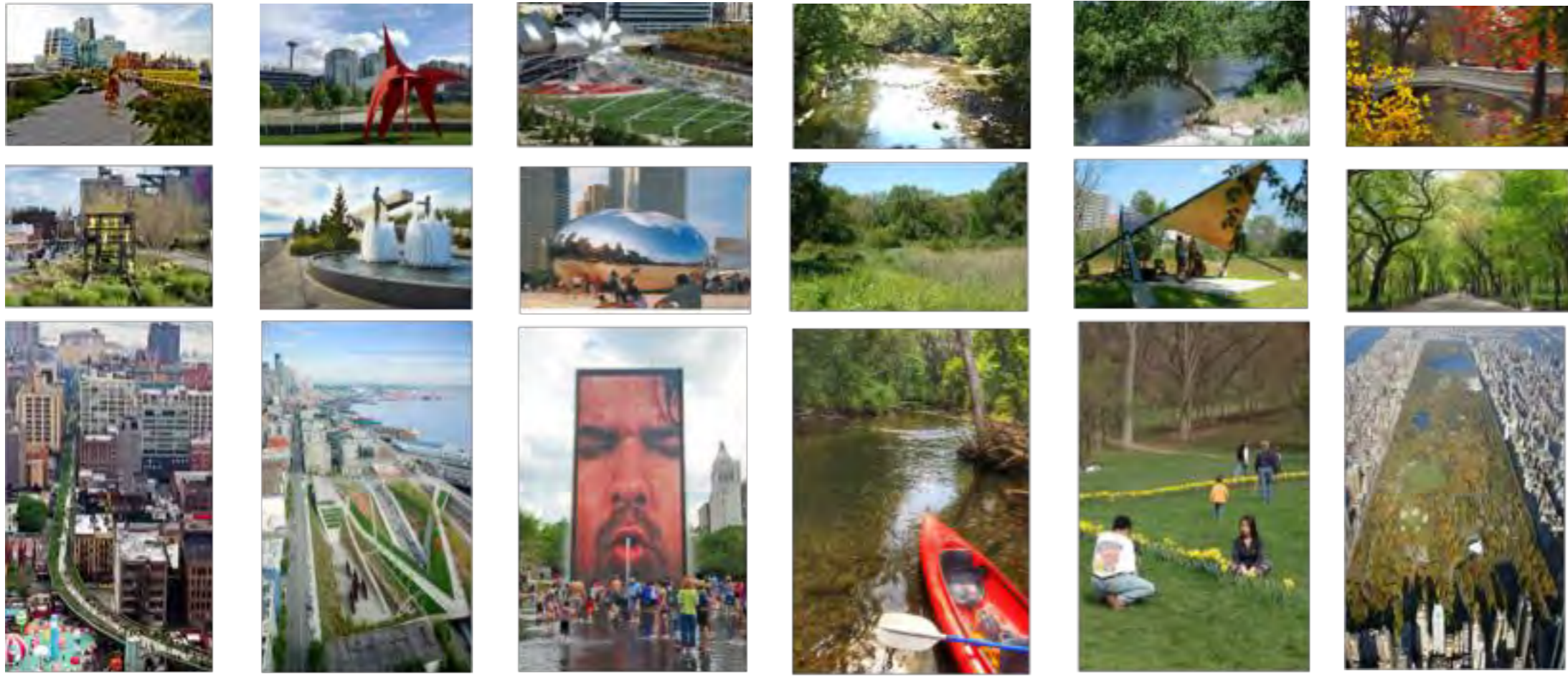
CURRENT LANDFORMS



The Garden of Cosmic Speculation, Scotland
Charles Jencks Landscape Architect

EARTH FORMS AND MOUNDS INSPIRED BY
ANCIENT WORKS, MATH AND SCIENCE.

OPEN SPACE PARK COMPARISON



THE HIGHLINE
NEW YORK, NY

6.73 ACRES

OLYMPIC
SCULPTURE PARK,
SEATTLE, WA

9 ACRES

MILLENNIUM PARK,
CHICAGO, IL

24.5 ACRES

RIVERBEND PARK,
ROCHESTER
HILLS, MI

114 ACRES

NICHOLS
ARBORETUM,
ANN ARBOR, MI

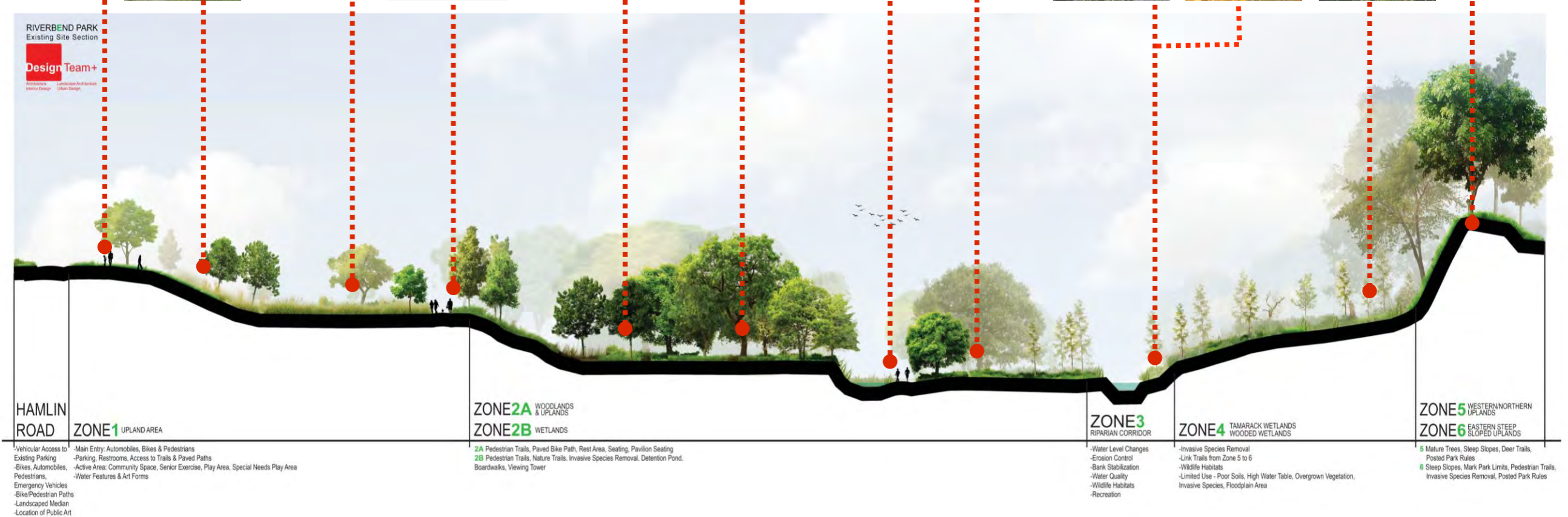
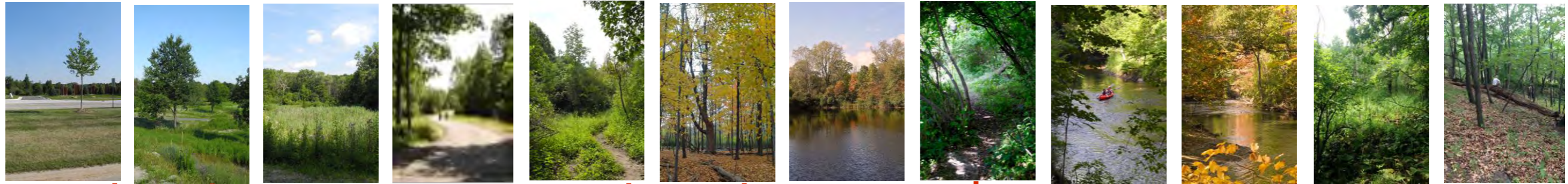
123 ACRES

CENTRAL PARK
NEW YORK, NY

843 ACRES

SITE ANALYSIS CROSS SECTION

SITE IMAGES



THE CROSS SECTION ILLUSTRATES THE TOPOGRAPHIC CHANGES THROUGH THE SITE. ZONES HIGHLIGHT THE VARIOUS VEGETATION TYPES AND HYDROLOGY, WHICH CREATES THE PARK'S NATURAL SYSTEMS.

ANALYSIS CONCEPT

AREA MORPHOLOGY



FEMA FLOODPLAIN



NISWANDER ENVIRONMENTAL REPORT



SITE ANALYSIS



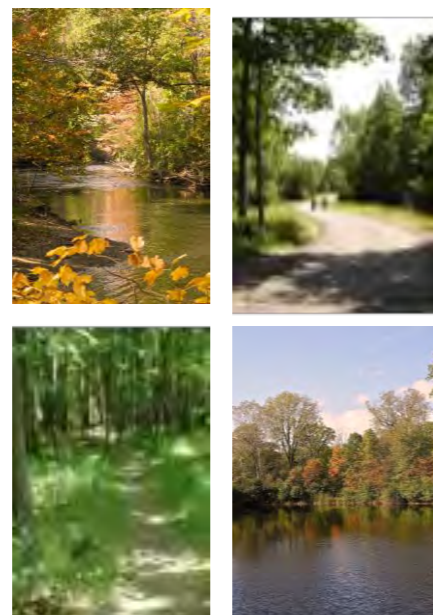
SOLSTICE STUDIES



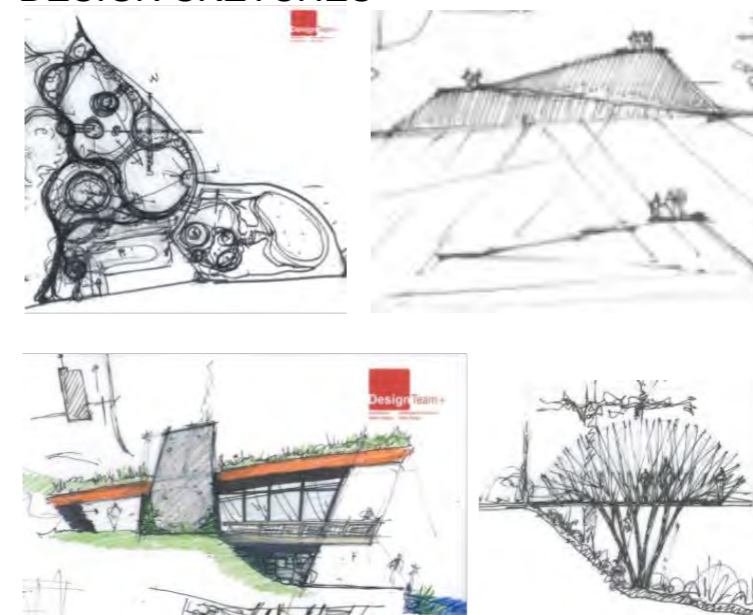
SOILS



SITE INVESTIGATION



CONCEPTUAL DIAGRAM - DESIGN SKETCHES

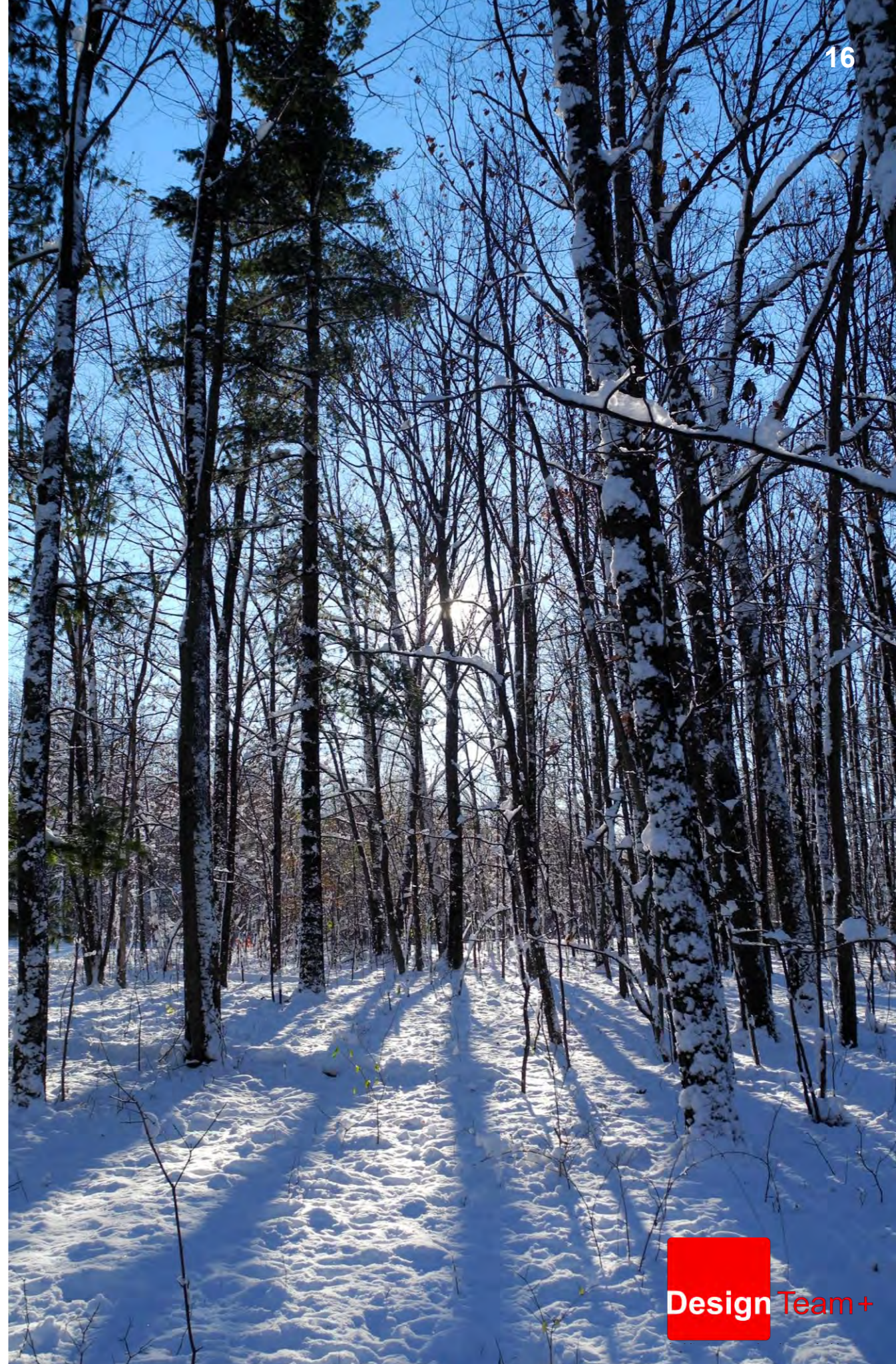


DESIGN CONCEPT

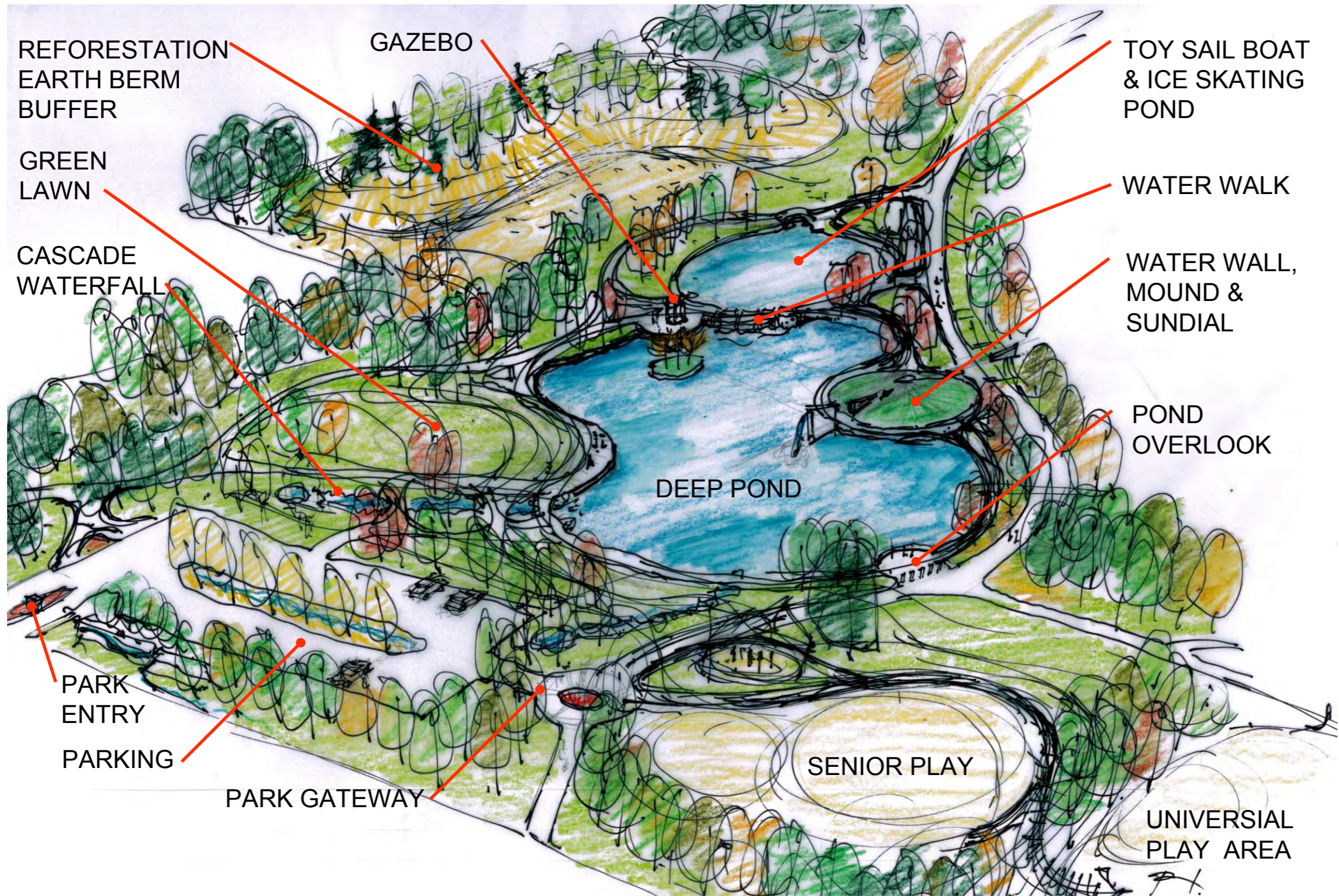


AN ANALYSIS WAS CONDUCTED OF THE NATURAL SYSTEMS AND MANMADE ELEMENTS WHICH ARE THE ASSETS OF THE PARK. NUMEROUS SITE VISITS WERE CONDUCTED DURING THE ENTIRE PROJECT TO EXPLORE AND DISCOVER THE PARK'S UNIQUE FEATURES.

CONCEPTS



WATER FEATURE CONCEPT



REFORESTATION
EARTH BERM
BUFFER

GAZEBO

TOY SAIL BOAT
& ICE SKATING
POND

GREEN
LAWN

WATER WALK

CASCADE
WATERFALL

WATER WALL,
MOUND &
SUNDIAL

DEEP POND

POND
OVERLOOK

PARK
ENTRY

PARKING

SENIOR PLAY

PARK GATEWAY

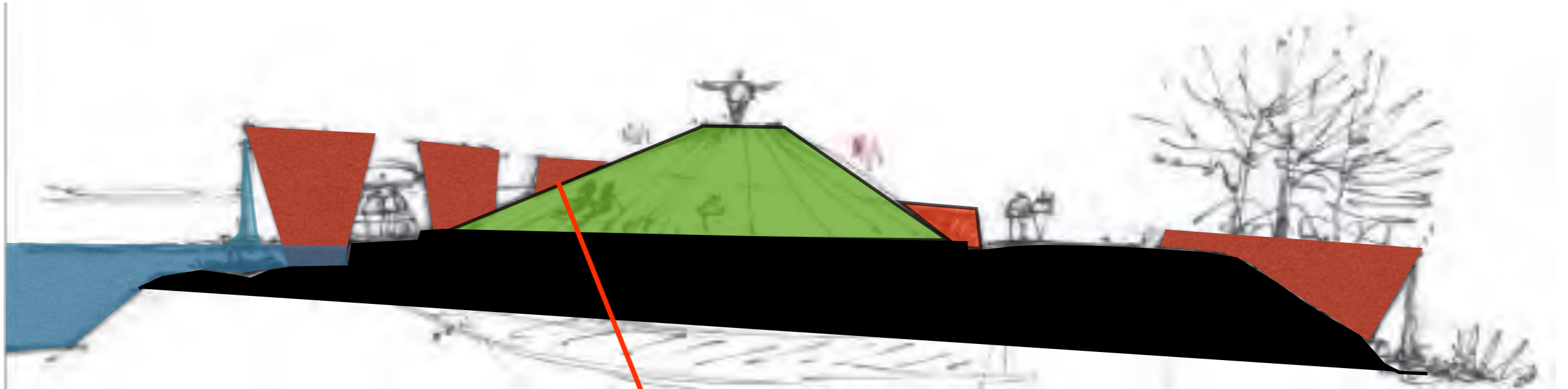
UNIVERSIAL
PLAY AREA

RIVERBEND PARK

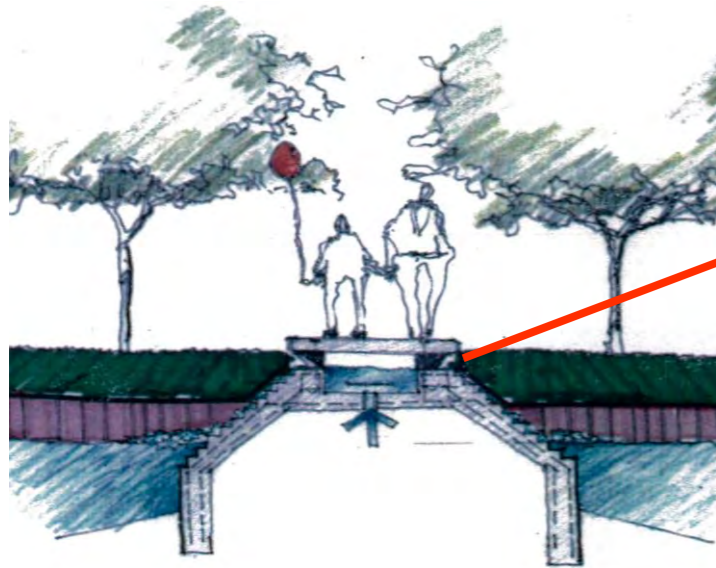
STRATEGIC FRAMEWORK PLAN



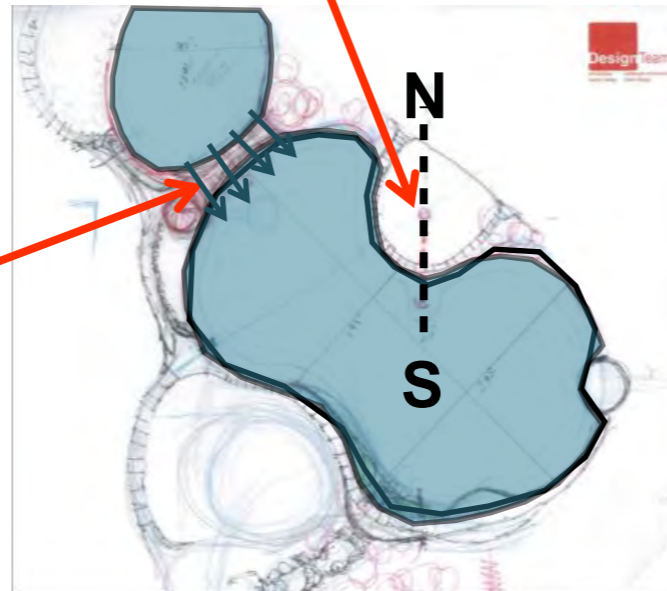
WATER WALL & WATER WALK CONCEPTS



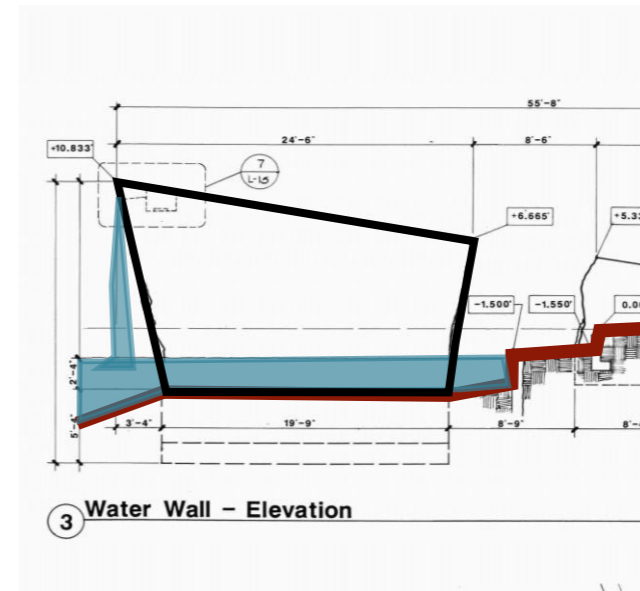
WATER WALL



WATER WALK

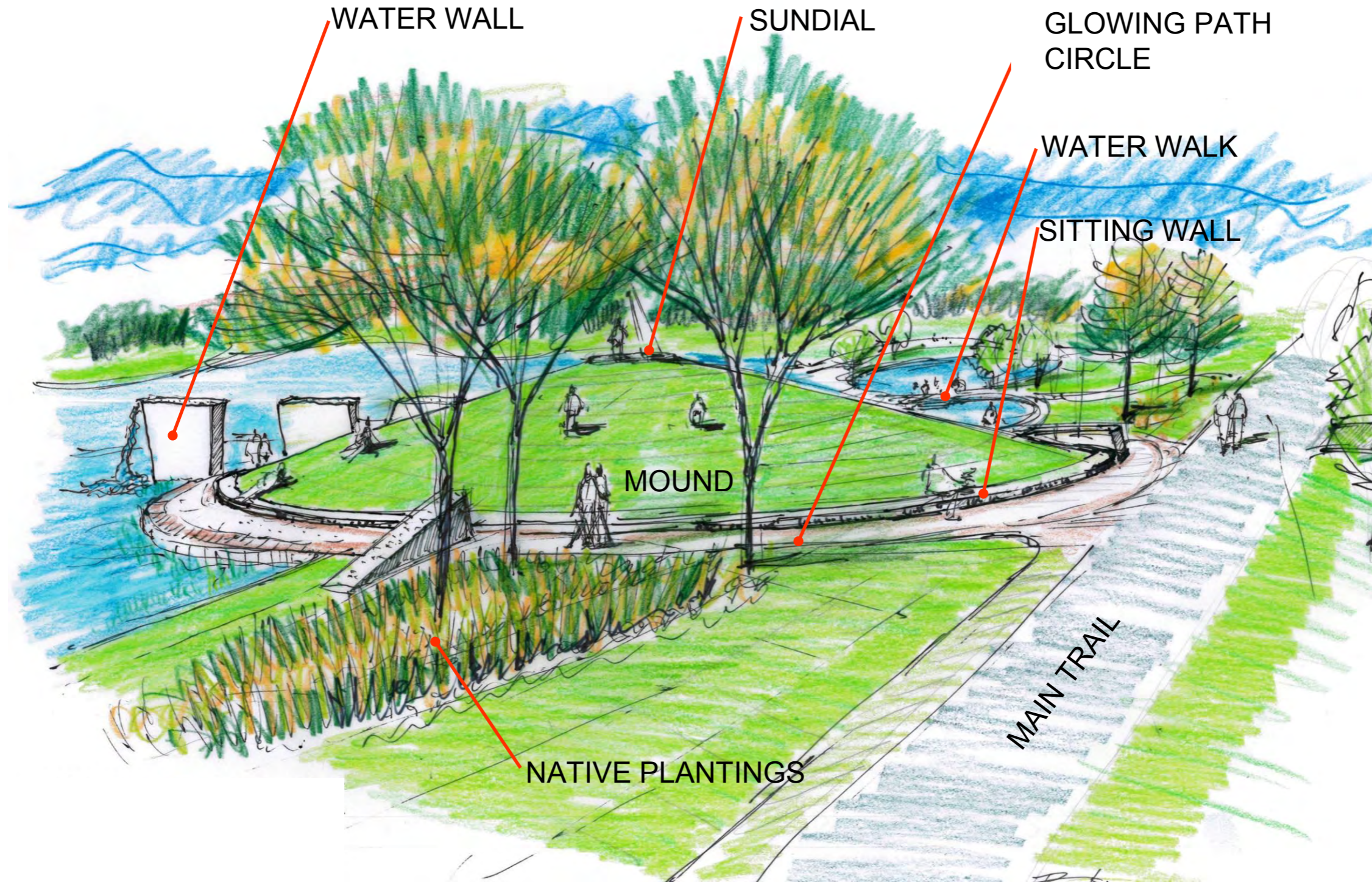


WATER FEATURE

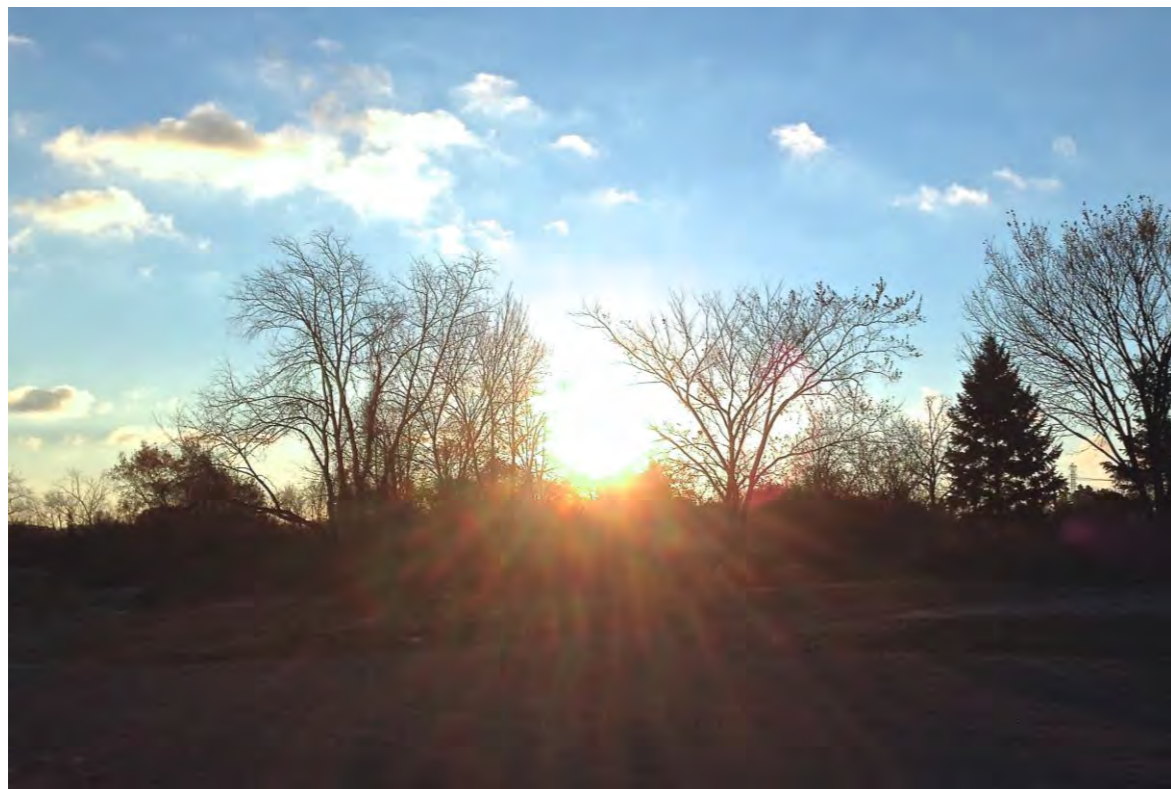


WATERWALL DETAIL

WATER WALL | MOUND | SUNDIAL CONCEPT



MOUND - MARKING TIME & SEASONS CONCEPT



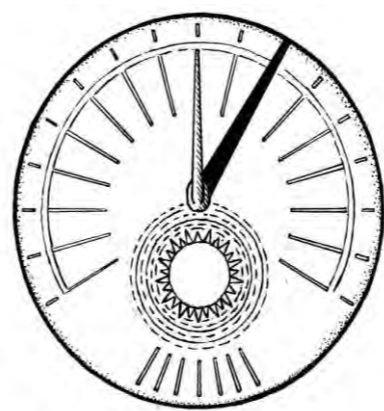
SUNRISE at RIVERBEND PARK



EARLY CONCEPT OF MOUND AND WATER WALL



THE SUNDIAL TRACKS THE HOURS, THE SPRING AND WINTER SOLSTICE ARE MARKED ALONG THE SEAT WALL AND PAVEMENT TO INDICATE THE SUN'S POSITION AND ALIGNMENT.



SUNDIAL

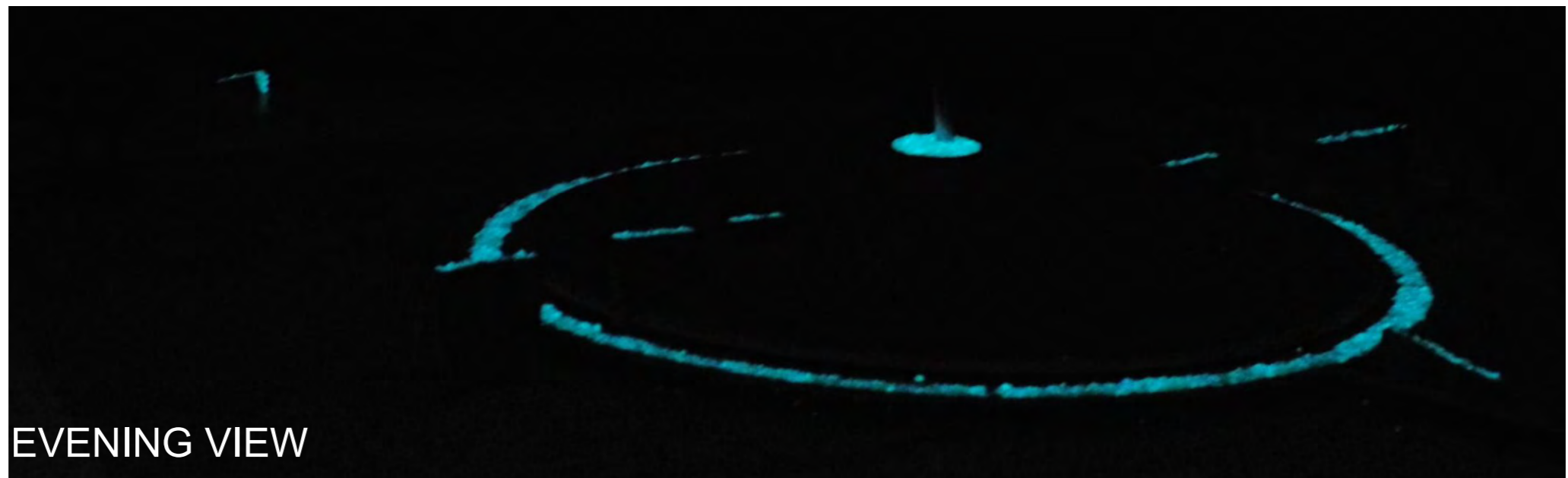
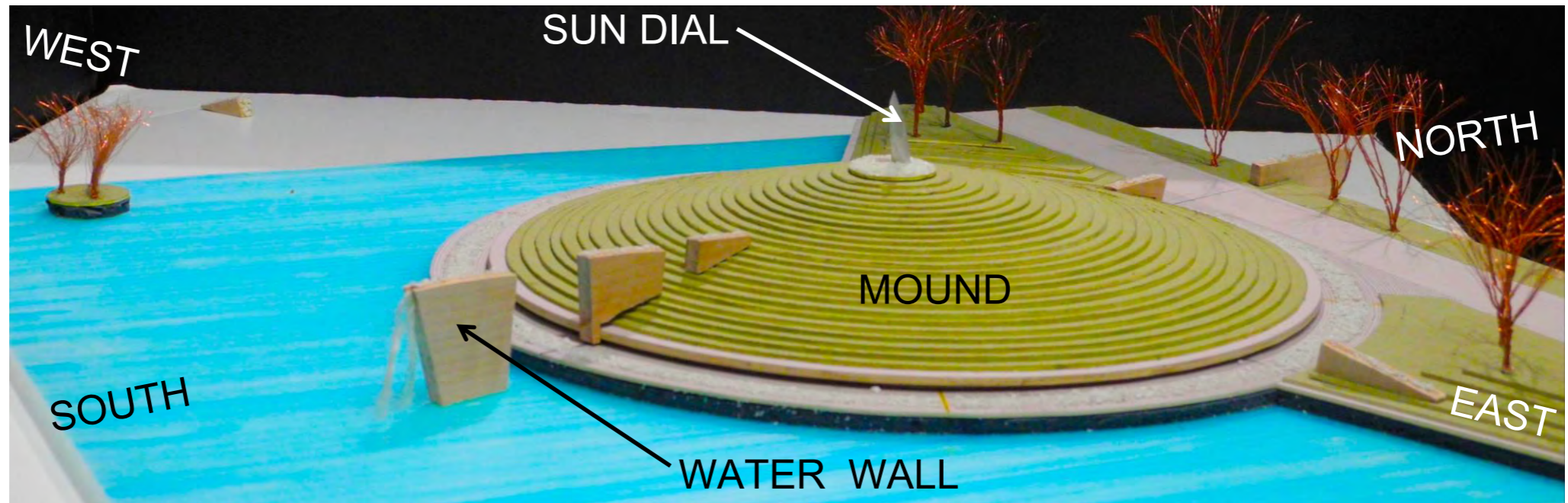


SPRING SOLSTICE



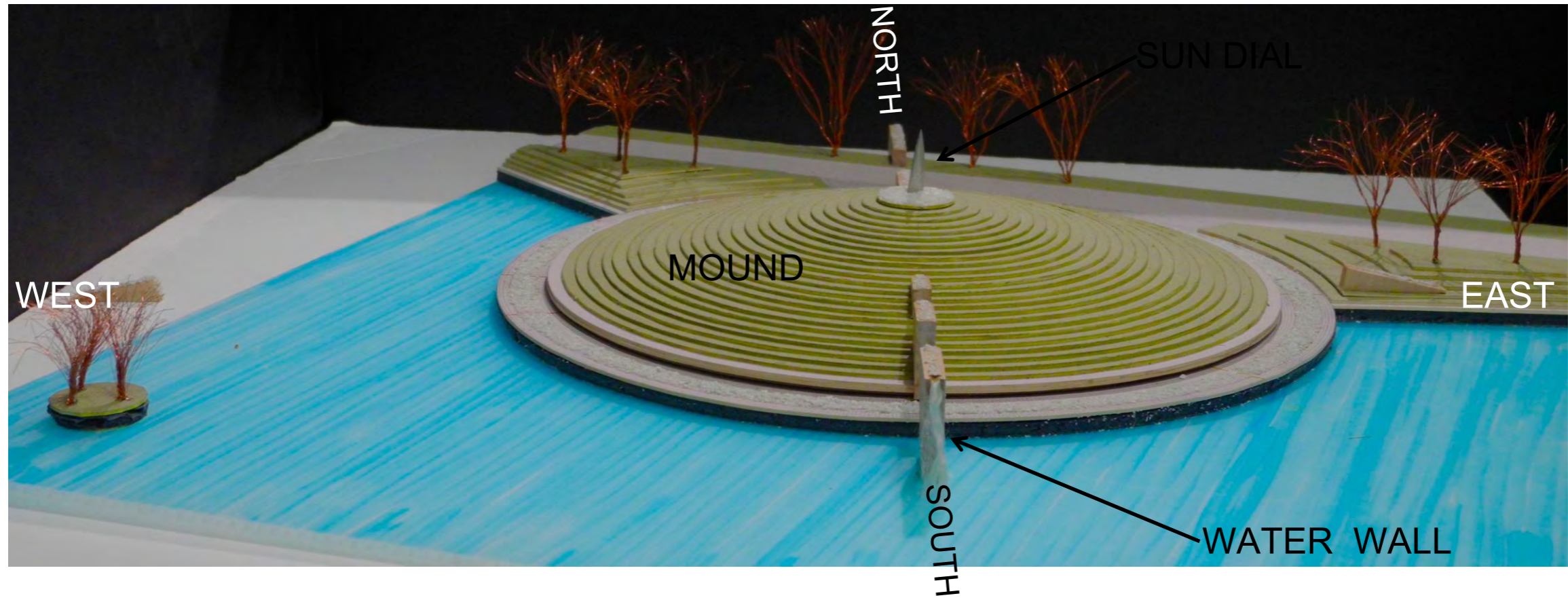
WINTER SOLSTICE

LAKE & PARK FEATURE CONCEPT



VIEW FROM TRAIL OVERLOOK

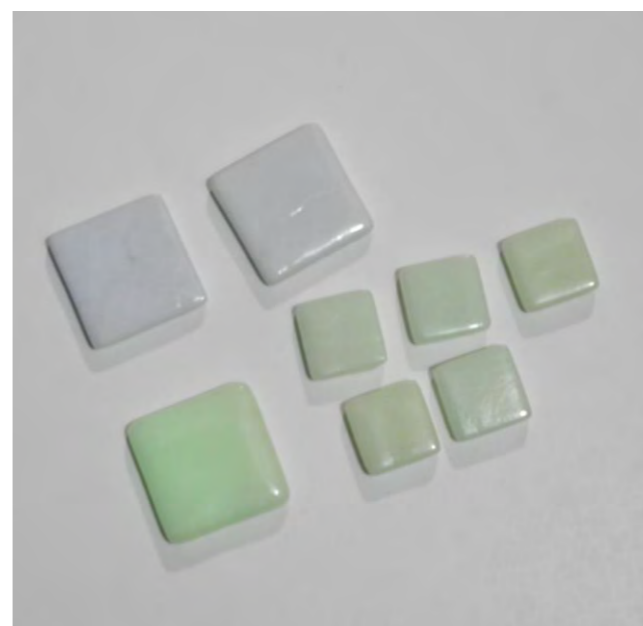
LAKE & PARK FEATURE CONCEPT



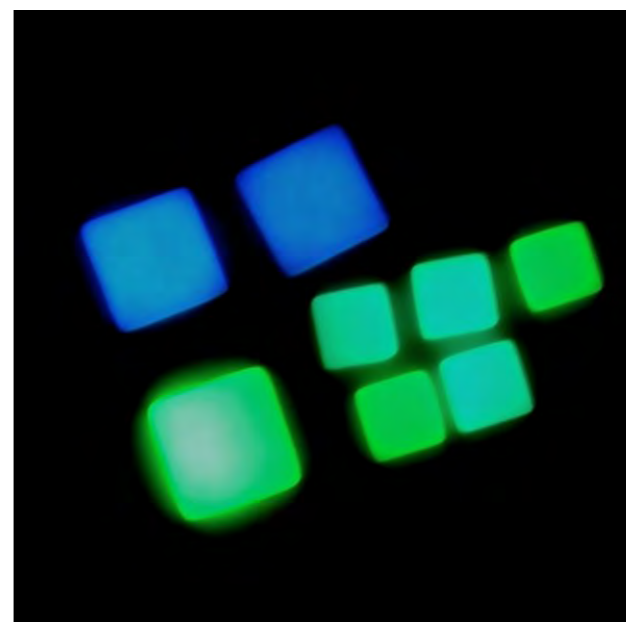
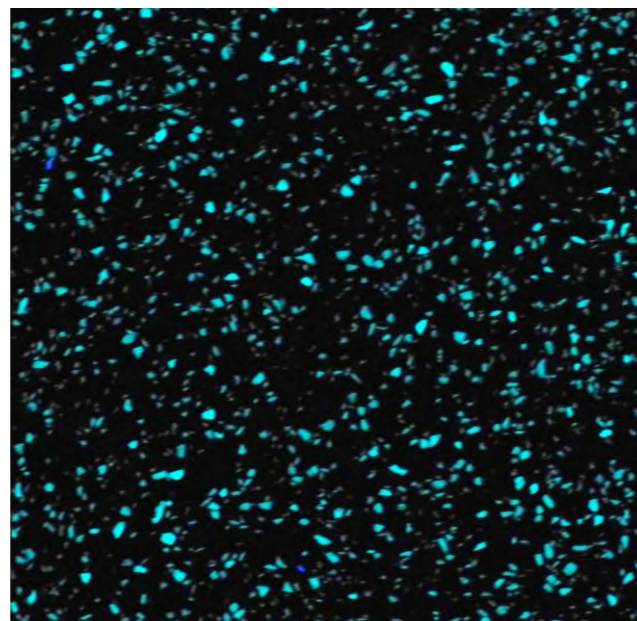
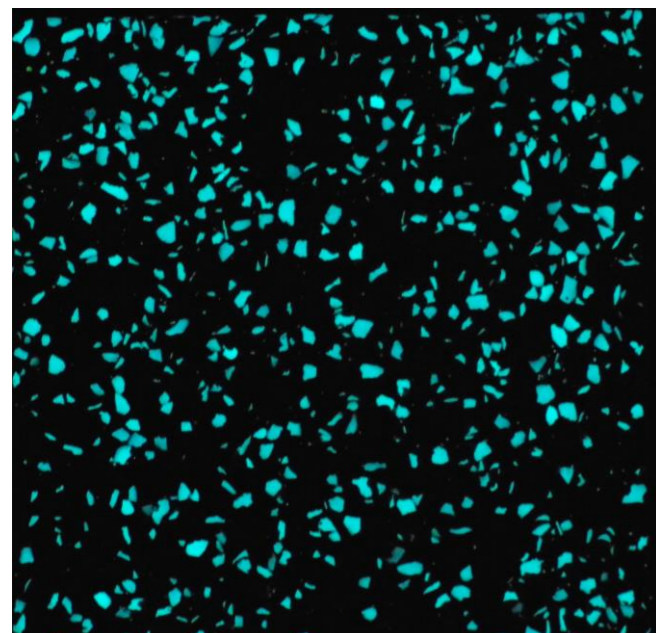
EVENING VIEW

VIEW FROM PARKING LOT

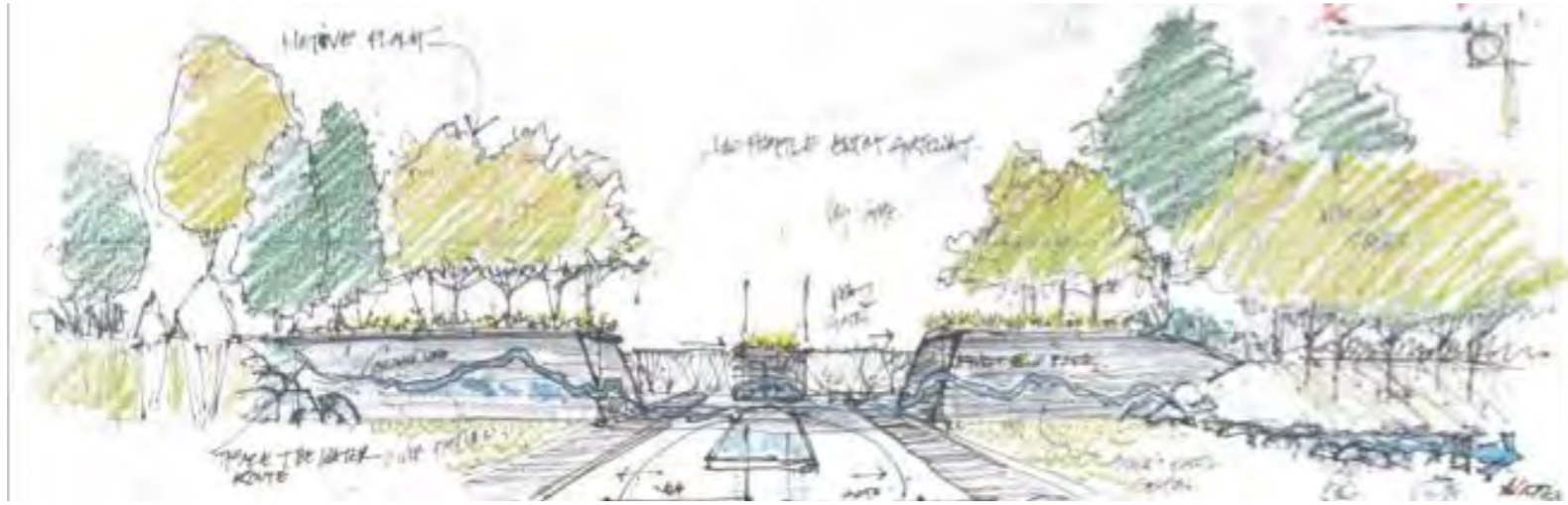
SOLAR POWERED ILLUMINATED *GLOWPATH*™ PAVERS



GLOWPATH™ PAVERS UTILIZE THE ENERGY OF THE SUN, LIGHTING UP AT NIGHT WITH A NATURAL GLOW.



PARK GATEWAY ENTRY CONCEPT



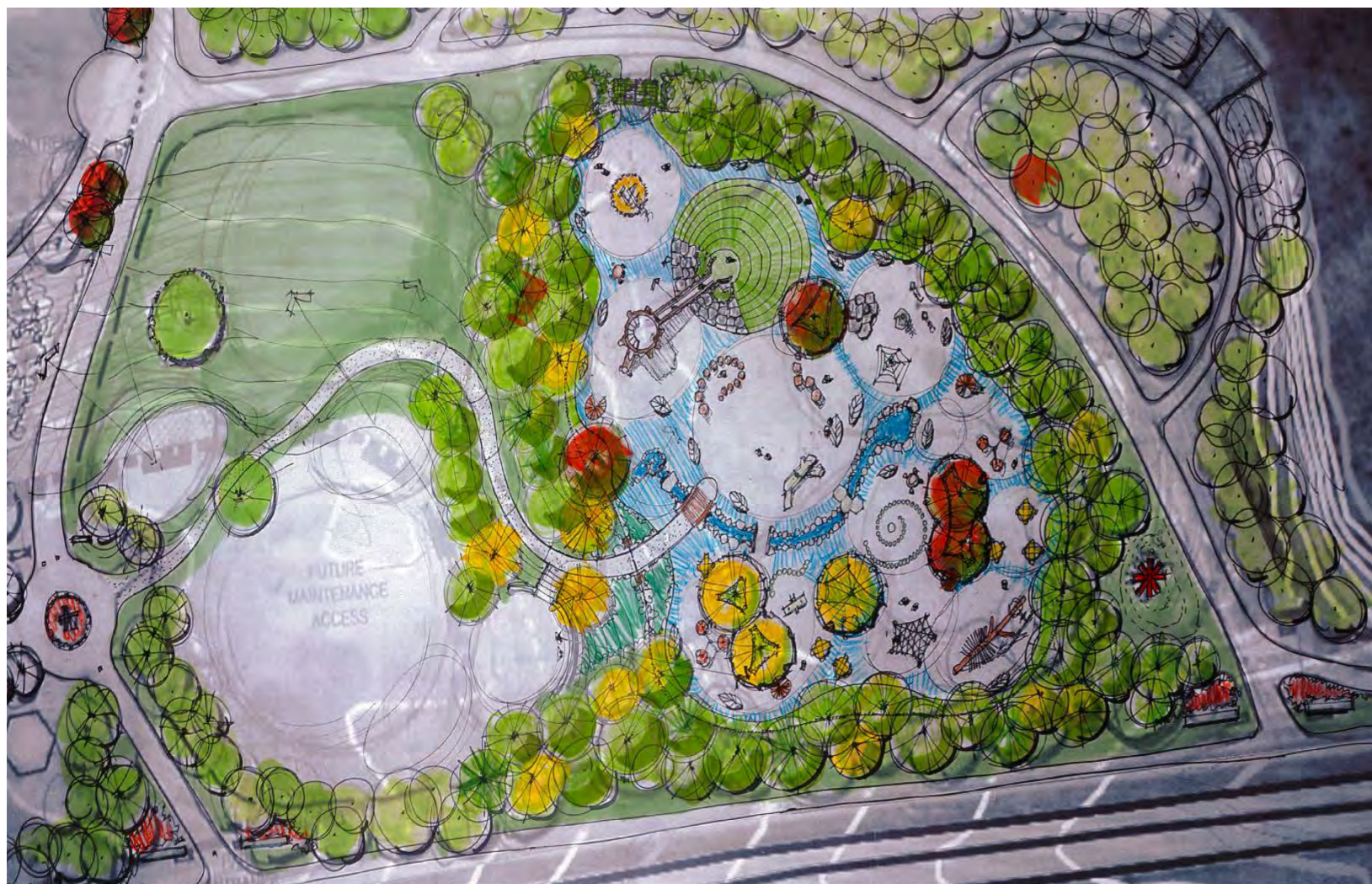
GATEWAY CONCEPT



MAIN PARK GATEWAY

EVENING VIEW

UNIVERSAL PLAY AREA CONCEPT



RIVERBEND PARK | 'UNIVERSAL PLAY' AREA CONCEPT

PLAY AREA AND SENSORY GARDEN DESIGNED FOR CHILDREN WITH SPECIAL NEEDS AND THEIR FAMILIES



NATURAL PLAY SCAPE

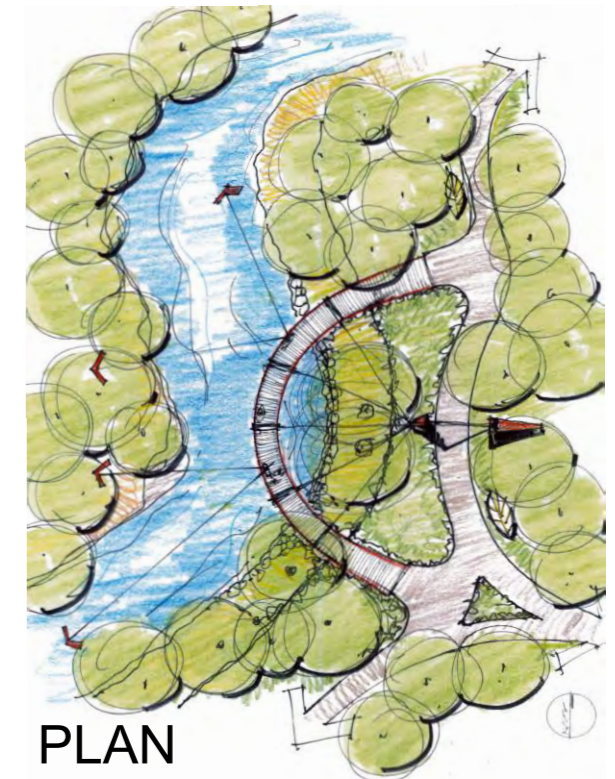
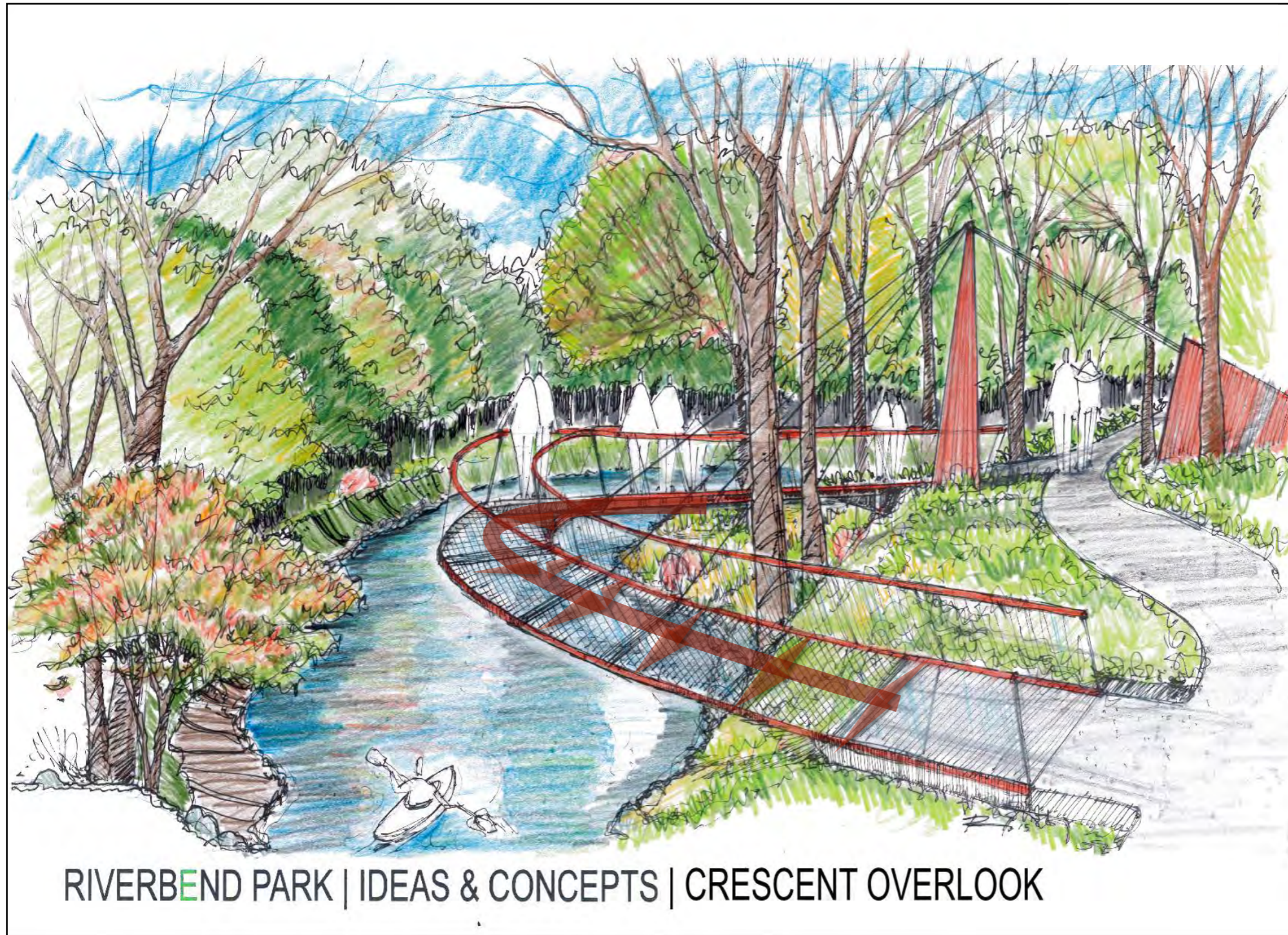
UNIVERSAL PLAY AREA CONCEPT



RIVERBEND PARK | IDEAS & CONCEPTS

CRESCENT OVERLOOK

CONCEPT



PLAN

THE CRESCENT OVERLOOK IS THE FIRST OPPORTUNITY TO VIEW THE CLINTON RIVER AND EXPERIENCE THE PARK'S NATURAL BEAUTY

RIVERBEND PARK | IDEAS & CONCEPTS | CRESCENT OVERLOOK

WETLAND OVERLOOK CONCEPT



RIVERBEND PARK | IDEAS & CONCEPTS | WETLAND OVERLOOK