

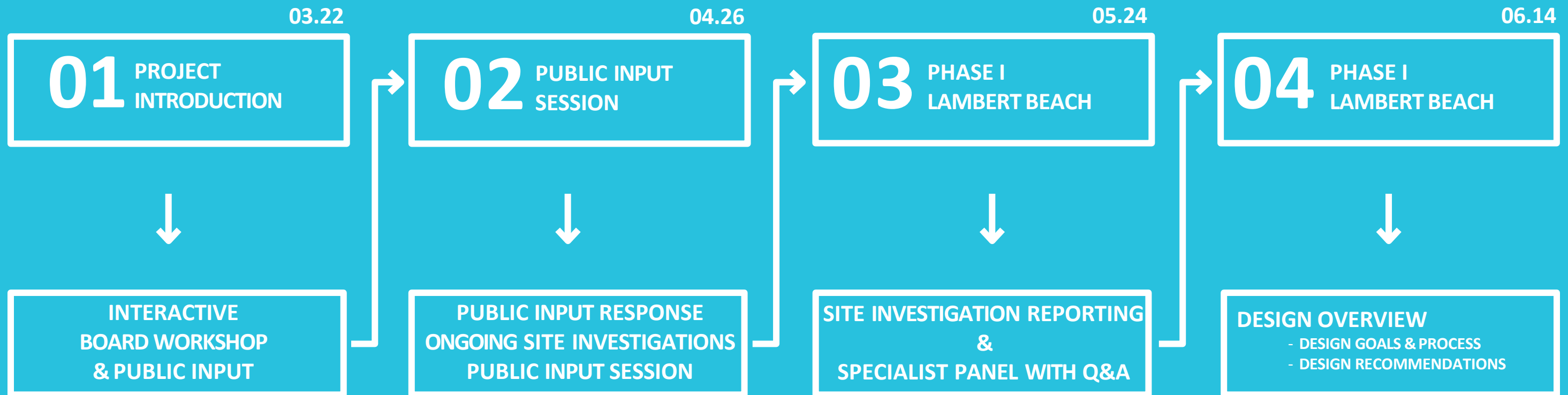
# brackenridge park

A POSTCARD PLACE LOST IN TIME  
PUBLIC STAKEHOLDER FINAL MEETING #07

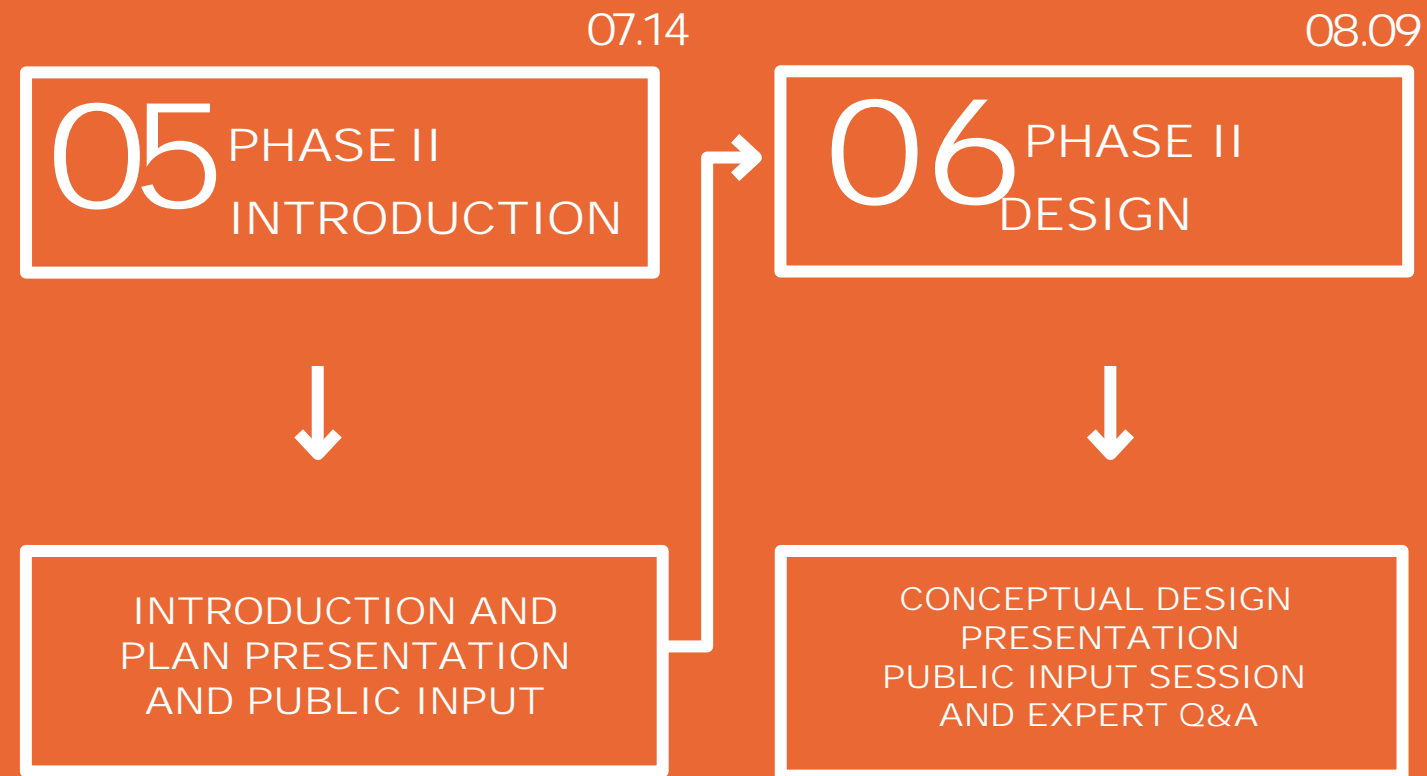


# BRACKENRIDGE PARK MEETING SERIES STRUCTURE

## PHASE I



# PHASE II



# CONCLUSION

08.31

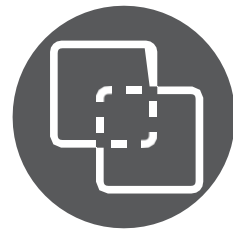
07 PHASE I & II  
RECOMMENDATION



PRESENTATION AND  
INTERACTIVE  
BOARD WORKSHOP

# PROJECT GOALS

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## ESTABLISH + UNIFY

PARK IDENTITY THROUGH IMPLEMENTATION OF HISTORICALLY RELEVANT PROGRAMMING AND CONNECTIONS TO ADJACENT PARK EDGES



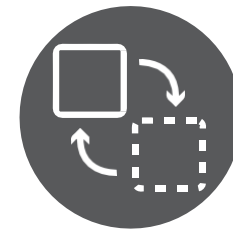
## EMPHASIZE + PROMOTE

CULTURE THROUGH THE ADDITION OF NEW EDUCATIONAL ACTIVITIES, INTERPRETATION, AND CELEBRATION OF THE SA WATER SYSTEM



## PRESERVE + REHABILITATE

HISTORIC INFRASTRUCTURE TO INTERPRET HISTORICAL, FUNCTIONAL, AND CULTURAL USES



## REHABILITATE + RESTORE

RESTORE PARK HEALTH TO IMPROVE THE ENVIRONMENT, ECOSYSTEMS AND OVERALL FUNCTION OF THE PARK

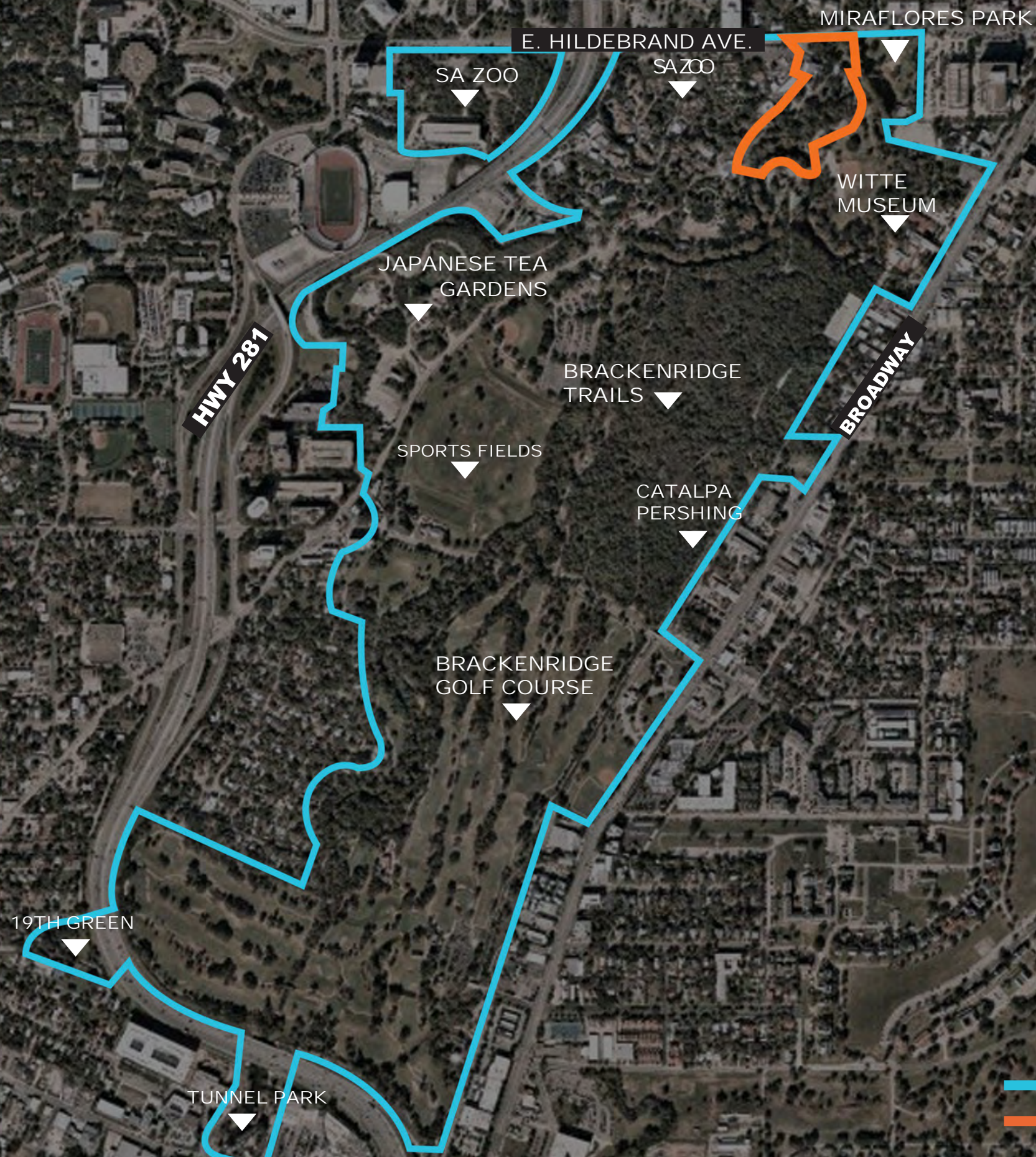
# 2017 BRACKENRIDGE PARK MASTER PLAN



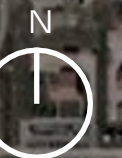
## OVERVIEW

- Integrate Brackenridge Park into its surroundings and clarify the Park perimeter.
- Ensure the Park edge should look like a park wherever it is publicly visible; treat the dominant Park boundaries of US 281, Broadway Street, and Hildebrand Avenue as park-related public ways, not hard edges containing the Park.
- Work with the Park's institutional neighbors to create a Park District.
- Enlarge the Park.
- Set hard boundaries to prevent any future encroachment of current publicly owned and/ or accessible land and establish the current free area of the Park as the minimum free area of the future.
- Strengthen the historic organization of the Park along the San Antonio River and the Catalpa-Pershing Channel.
- Balance active, passive, and cultural uses of the Park.
- Create community support for the well-being of the Park.

# SITE CONTEXT



— BRACKENRIDGE PARK BOUNDARY (OBSERVED)  
— 2017 BOND PROJECT SITE BOUNDARY



# SCOPE PHASING

E. HILDEBRAND AVE.

BRACKENRIDGE RD.

SAN ANTONIO ZOO

PARK

## PHASE I

### LAMBERT BEACH ZONE

- REPAIR & STABILIZE RIVER SIDE OF PUMPHOUSE
- REPAIR & REBUILD LAMBERT BEACH WALLS/STAIRS
- REBUILD HISTORIC STAIRCASE ON NE SIDE OF LAMBERT BEACH
- GRADING & EARTHWORK IMPROVEMENTS
- ADDRESS TREES IMPACTING CULTURAL RESOURCES

SAN ANTONIO ZOO

BRACKENRIDGE WAY

## PHASE II

### ACEQUIA AND UPPER LABOR ZONE

- RESTORE UPPER LABOR LILY POND
- UNCOVER & STABILIZE UPPER LABOR DAM
- DREDGE & REPAIR HISTORIC ACEQUIA
- REHABILITATE HISTORIC PUMPHOUSE
- IMPROVE PEDESTRIAN CIRCULATION
- REVEAL HISTORIC PUMPHOUSE ARCHES
- REDUCE UNPRODUCTIVE HARDSCAPE
- RE-WATER THE HISTORIC RACEWAY
- PROVIDE NATIVE TREES & PLANTING
- GRADING & EARTHWORK STABILIZATION
- UTILITIES CONSOLIDATION
- INTERPRET HISTORIC FEATURES
- PROVIDE CONNECTION TO FUTURE SPIRIT REACH TRAIL







# CODES, PERMITS AND REGULATORY APPROVALS



SAN ANTONIO  
OFFICE OF HISTORIC  
PRESERVATION



SECTION 106  
US ARMY CORPS OF  
ENGINEERS



TEXAS  
DEPARTMENT OF  
LICENSING &  
REGULATIONS



SAN ANTONIO  
BUILDING CODE AND TREE  
ORDINANCE



TEXAS HISTORICAL  
COMMISSION



AMERICAN DISABILITIES  
ACT(ADA) COMPLIANCE

# 2017 LADYBIRD JOHNSON ECOLOGICAL SITE STUDY

## ECOLOGICAL SITE ASSESSMENT

BRACKENRIDGE PARK

Brackenridge Park Conservancy  
San Antonio, Texas

August, 2019



PLANTING DESIGN FOLLOW THE RECOMMENDATIONS OF THE LADY BIRD JOHNSON WILDFLOWER CENTER'S 2017 ECOLOGICAL ASSESSMENT:

- Increase vegetative buffers in riparian areas / slopes to prevent erosion and soil compaction (low organic material)
- Increase biodiversity to make species more resilient to changing ecology and climactic conditions; species are not regenerating
- Establish / maintain mowing set-backs and defined river access and viewing points
- Utilize LID features such as rain gardens and filter strips adjacent to hardscape circulation
- Enhance pollinator habitat, provide more interest and help direct foot traffic to allow soil recovery
- Manage invasives
- CLR Advocates for Eco-Restoration: "repairing the function, or health, of damaged ecosystems but not necessarily on re-creating a historic ecological community. This is because the mix of human uses and environmental or climatic changes today would not support a purely historic expression of the ecology—in this case, a tallgrass savannah community"
- Incorporate only non-invasive species that are adapted to the wider variations in rainfall and temperature found in current conditions, or plan to include irrigation

# ECOLOGICAL RESTORATION

# LOW IMPACT DEVELOPMENT : EXISTING CONDITIONS

LACK OF UNDERSTORY  
TREES AND HABITAT

ST AUGUSTINE TURF IS  
NON NATIVE SPECIES

LACK OF  
VEGETATIVE BUFFER

CONCRETE CULVERT CONVEY  
WATER FROM PARKING LOT  
DIRECTLY INTO LILY POND

LILY POND IS SHALLOW AND STAGNANT:  
• NOT CONDUCTIVE TO PLANT AND FISH LIFE  
• MOSQUITO AND ALGAE PRONE



# LOW IMPACT DEVELOPMENT : PROPOSED DESIGN

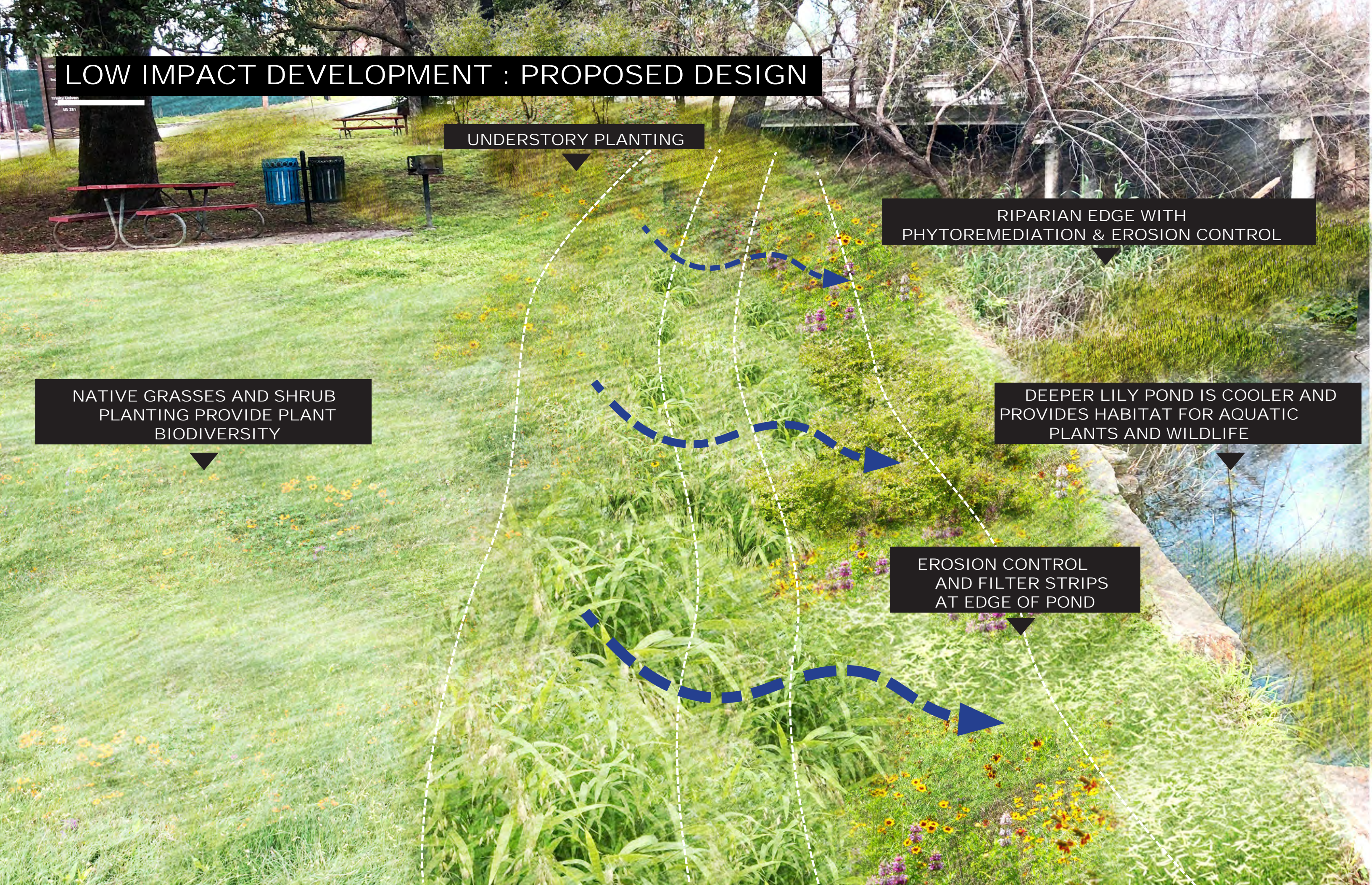
UNDERSTORY PLANTING

RIPARIAN EDGE WITH PHYTOREMEDIATION & EROSION CONTROL

NATIVE GRASSES AND SHRUB PLANTING PROVIDE PLANT BIODIVERSITY

DEEPER LILY POND IS COOLER AND PROVIDES HABITAT FOR AQUATIC PLANTS AND WILDLIFE

EROSION CONTROL AND FILTER STRIPS AT EDGE OF POND



# LOW IMPACT DEVELOPMENT : EXISTING ACEQUIA PLANTING

RUNOFF FROM PARKING LOT  
FLOWS DIRECTLY INTO  
ACEQUIA

COMPACTED SOIL AND SURFACE  
EROSION ALONG BANKS OF ACEQUIA

LACK OF UNDERSTORY  
TREES AND HABITAT

LACK OF VEGETATIVE BUFFER

VOLUNTEER SPECIES IN  
HISTORIC ACEQUIA  
RESTRICT FLOW AND  
REDUCE WATER QUALITY

ST AUGUSTINE TURF IS  
NON-NATIVE SPECIES

# LOW IMPACT DEVELOPMENT : PROPOSED ACEQUIA PLANTING

FILTER STRIPS ALONG BANKS RUNOFF BEFORE FLOWING INTO ACEQUIA

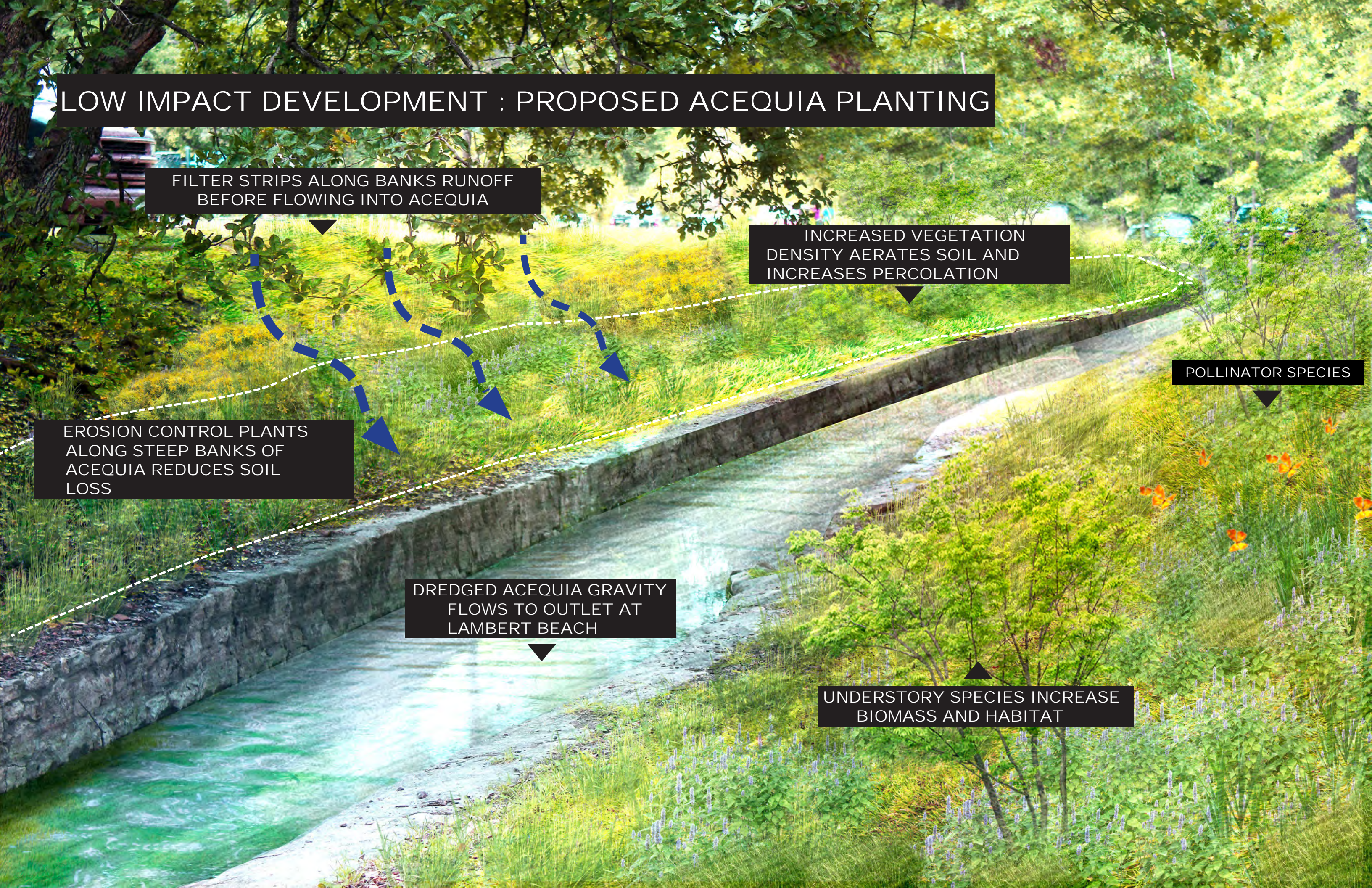
INCREASED VEGETATION DENSITY AERATES SOIL AND INCREASES PERCOLATION

POLLINATOR SPECIES

EROSION CONTROL PLANTS ALONG STEEP BANKS OF ACEQUIA REDUCES SOIL LOSS

DREDGED ACEQUIA GRAVITY FLOWS TO OUTLET AT LAMBERT BEACH

UNDERSTORY SPECIES INCREASE BIOMASS AND HABITAT





# LOW IMPACT DEVELOPMENT : EXISTING CONDITIONS

NON-NATIVE PALM SPECIES NOT CONDUCTIVE TO SOIL STABILIZATION

LACK OF VEGETATIVE BUFFER

SEVERE BANK EROSION

LACK OF PLANT DIVERSITY

SEVERELY COMPACTED SOILS ACT AS IMPERVIOUS COVER, NOT CONDUCTIVE TO ROOT HEALTH AND CAUSES SURFACE EROSION

COMPACTED SOIL AND SURFACE EROSION AT BASE OF RACEWAY



# LOW IMPACT DEVELOPMENT : PROPOSED RACEWAY DESIGN

STANDS OF TREES WITH UNDERSTORY PROVIDE WILDLIFE HABITAT AND INCREASE BIOMASS

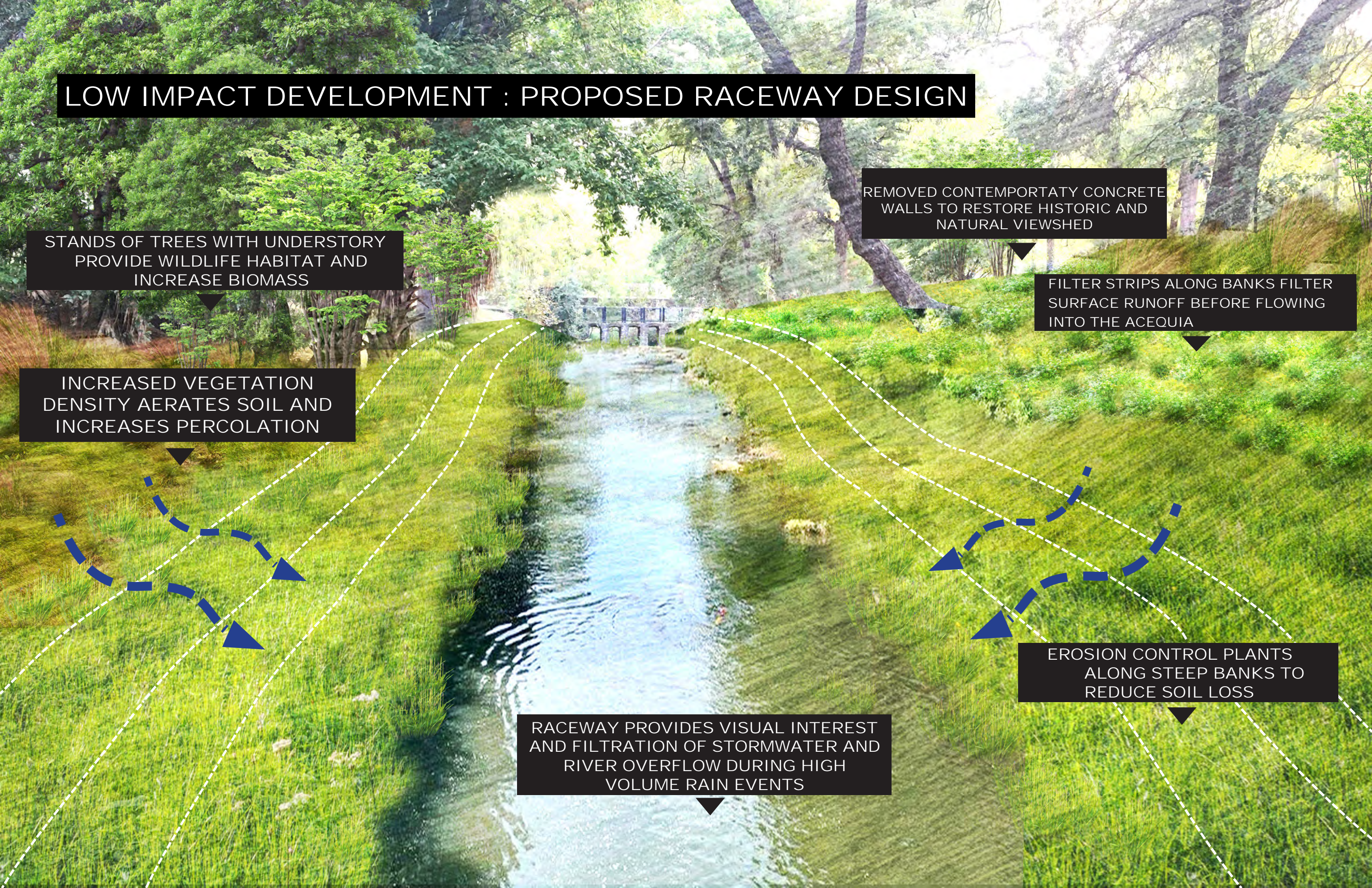
REMOVED CONTEMPORATY CONCRETE WALLS TO RESTORE HISTORIC AND NATURAL VIEWSHED

FILTER STRIPS ALONG BANKS FILTER SURFACE RUNOFF BEFORE FLOWING INTO THE ACEQUIA


INCREASED VEGETATION DENSITY AERATES SOIL AND INCREASES PERCOLATION

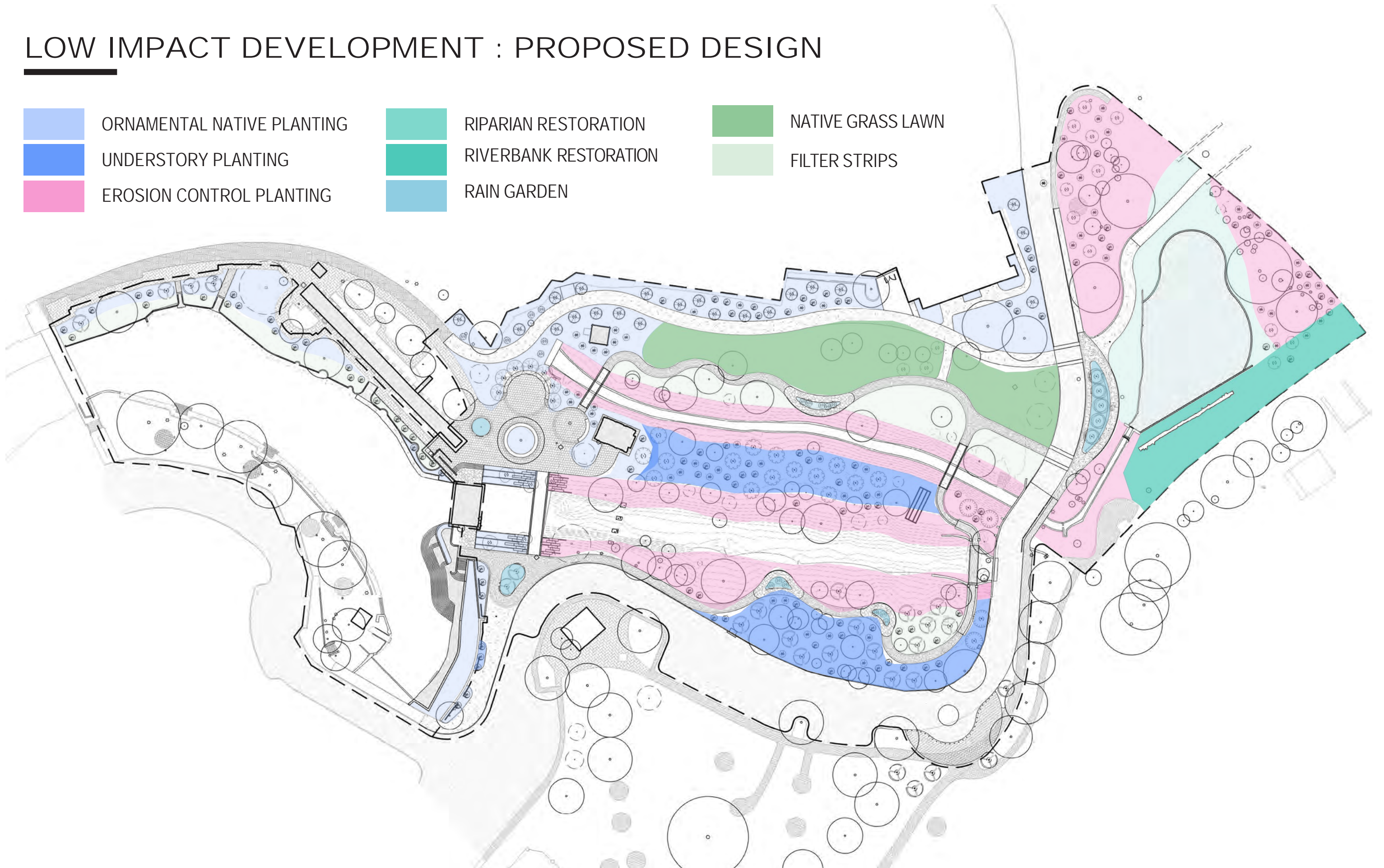
EROSION CONTROL PLANTS ALONG STEEP BANKS TO REDUCE SOIL LOSS

RACEWAY PROVIDES VISUAL INTEREST AND FILTRATION OF STORMWATER AND RIVER OVERFLOW DURING HIGH VOLUME RAIN EVENTS



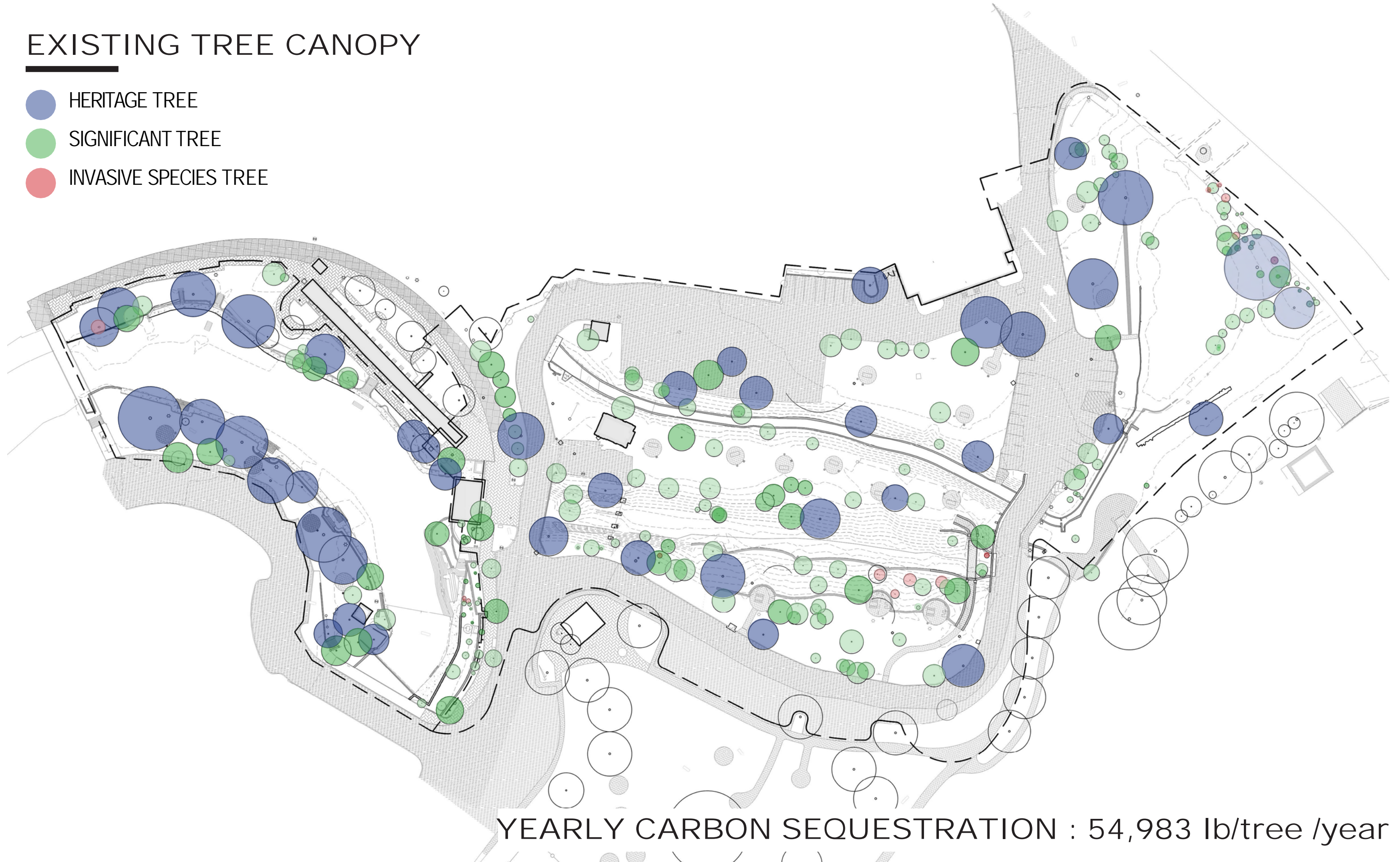
# LOW IMPACT DEVELOPMENT : PROPOSED DESIGN

- |   |                            |  |                       |   |                   |
|---|----------------------------|--|-----------------------|---|-------------------|
|  | ORNAMENTAL NATIVE PLANTING |  | RIPARIAN RESTORATION  |  | NATIVE GRASS LAWN |
|  | UNDERSTORY PLANTING        |  | RIVERBANK RESTORATION |  | FILTER STRIPS     |
|  | EROSION CONTROL PLANTING   |  | RAIN GARDEN           |   |                   |



# EXISTING TREE CANOPY

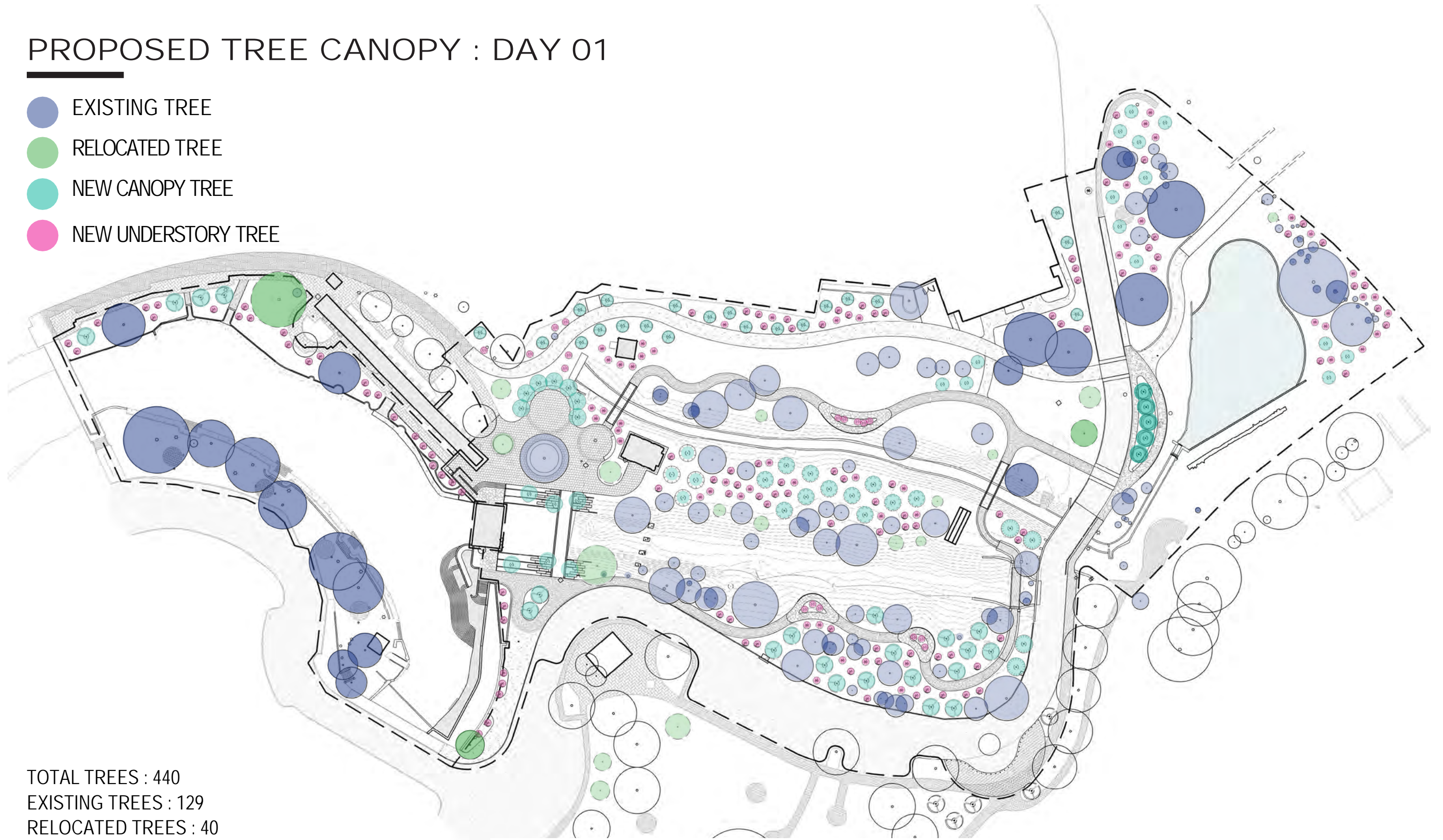
- HERITAGE TREE
- SIGNIFICANT TREE
- INVASIVE SPECIES TREE



YEARLY CARBON SEQUESTRATION : 54,983 lb/tree /year

# PROPOSED TREE CANOPY : DAY 01

- EXISTING TREE
- RELOCATED TREE
- NEW CANOPY TREE
- NEW UNDERSTORY TREE

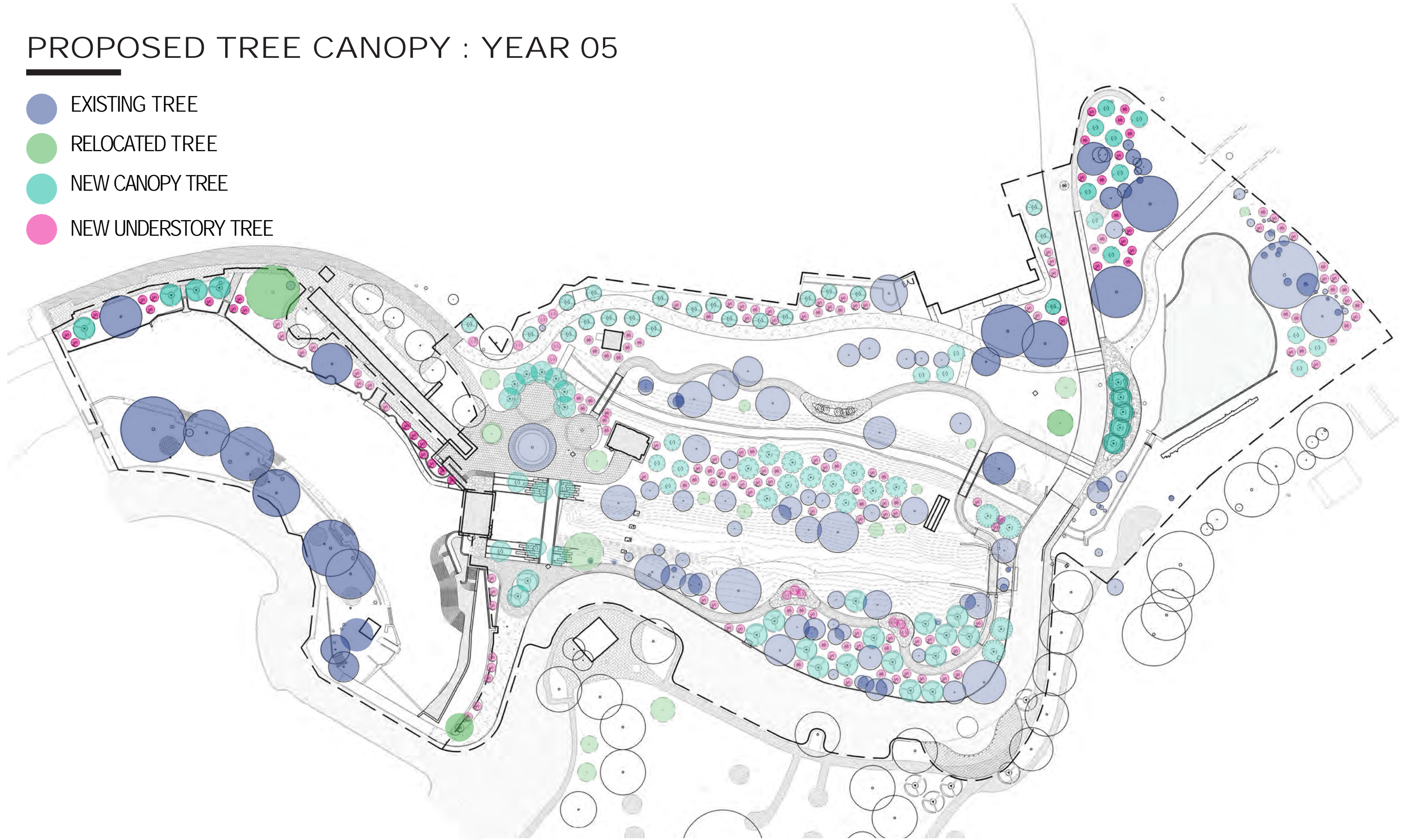


TOTAL TREES : 440  
EXISTING TREES : 129  
RELOCATED TREES : 40  
NEW CANOPY TREES : 85  
NEW UNDERSTORY TREES : 186

YEARLY CARBON SEQUESTRATION : 46,521 lb/tree /year

# PROPOSED TREE CANOPY : YEAR 05

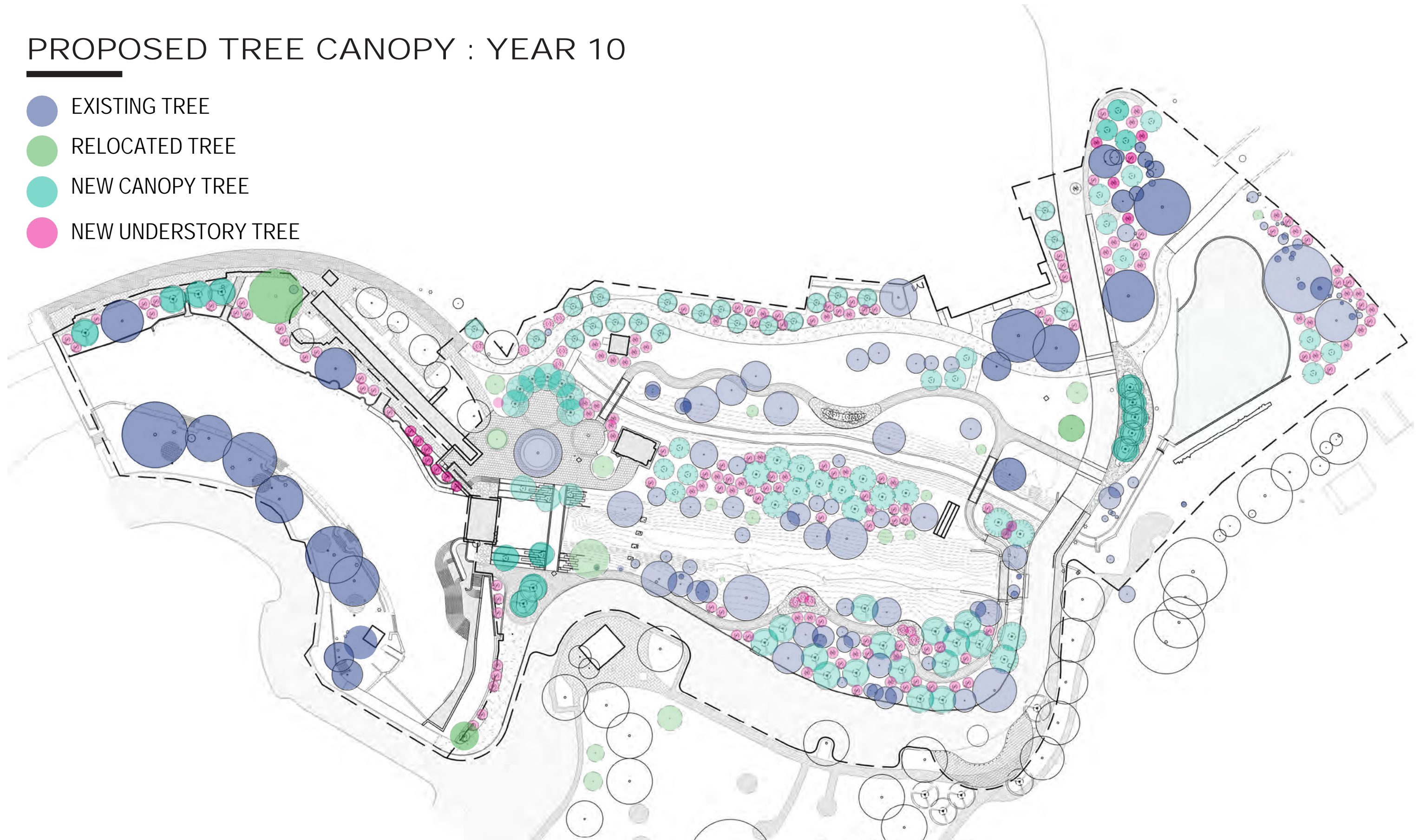
- EXISTING TREE
- RELOCATED TREE
- NEW CANOPY TREE
- NEW UNDERSTORY TREE



YEARLY CARBON SEQUESTRATION : 53,716 lb/tree /year

# PROPOSED TREE CANOPY : YEAR 10

- EXISTING TREE
- RELOCATED TREE
- NEW CANOPY TREE
- NEW UNDERSTORY TREE

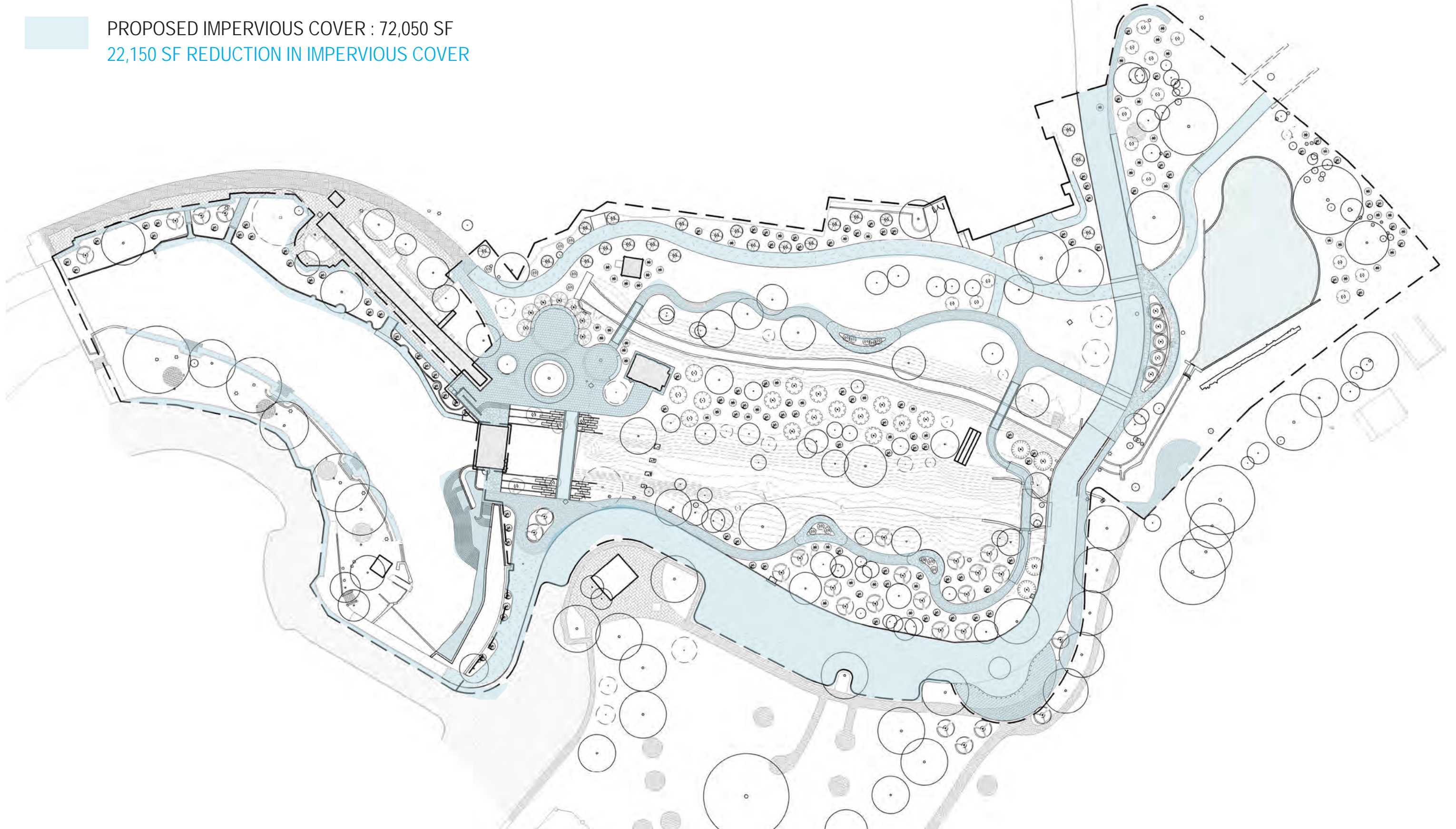


YEARLY CARBON SEQUESTRATION : 61,219 lb/tree /year

# PROPOSED IMPROVEMENTS : IMPERVIOUS COVER REDUCTION



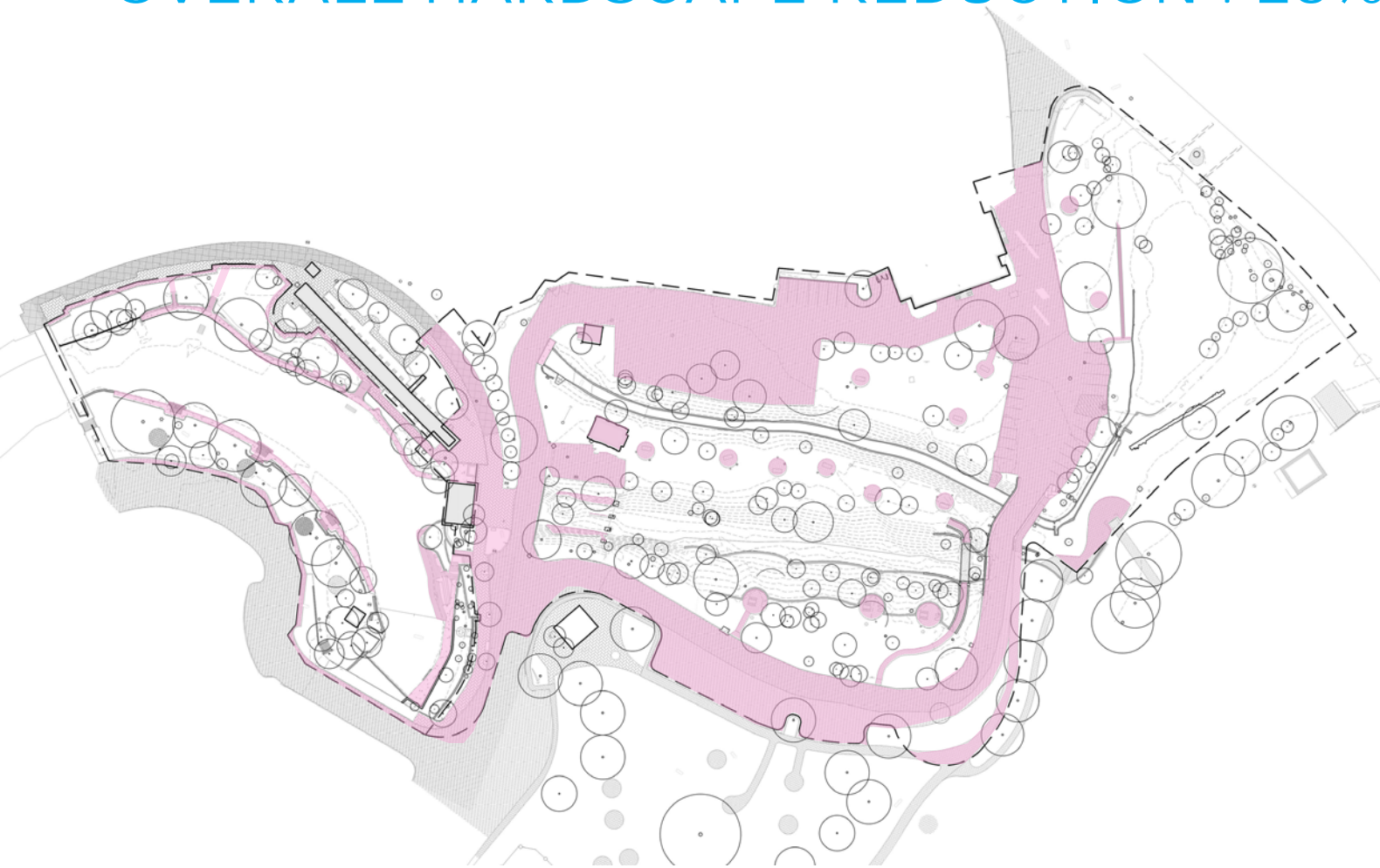
PROPOSED IMPERVIOUS COVER : 72,050 SF  
22,150 SF REDUCTION IN IMPERVIOUS COVER





# HEAT ISLAND REDUCTION

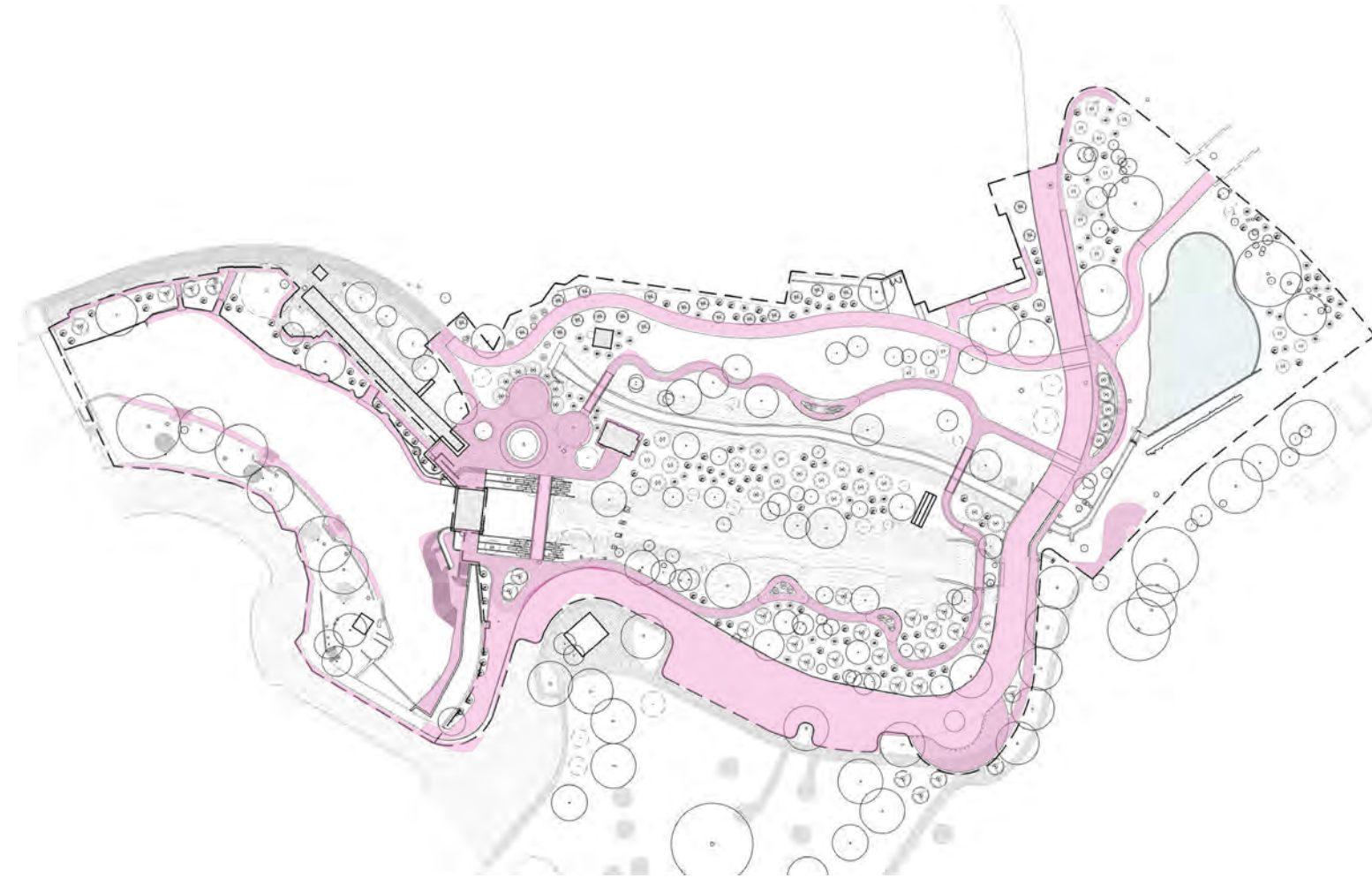
REDUCTION IN HIGH HEAT ABSORBING MATERIAL : 42%  
INCREASE IN HEAT REFLECTING MATERIAL : 38%  
OVERALL HARDSCAPE REDUCTION : 23%



## EXISTING

LOW SR VALUE MATERIALS :  
72,000 SF  
(AGED CONCRETE AND ASPHALT)

HIGH SR VALUE MATERIALS :  
22,000 SF  
(PAVERS AND LIMESTONE)



## PROPOSED

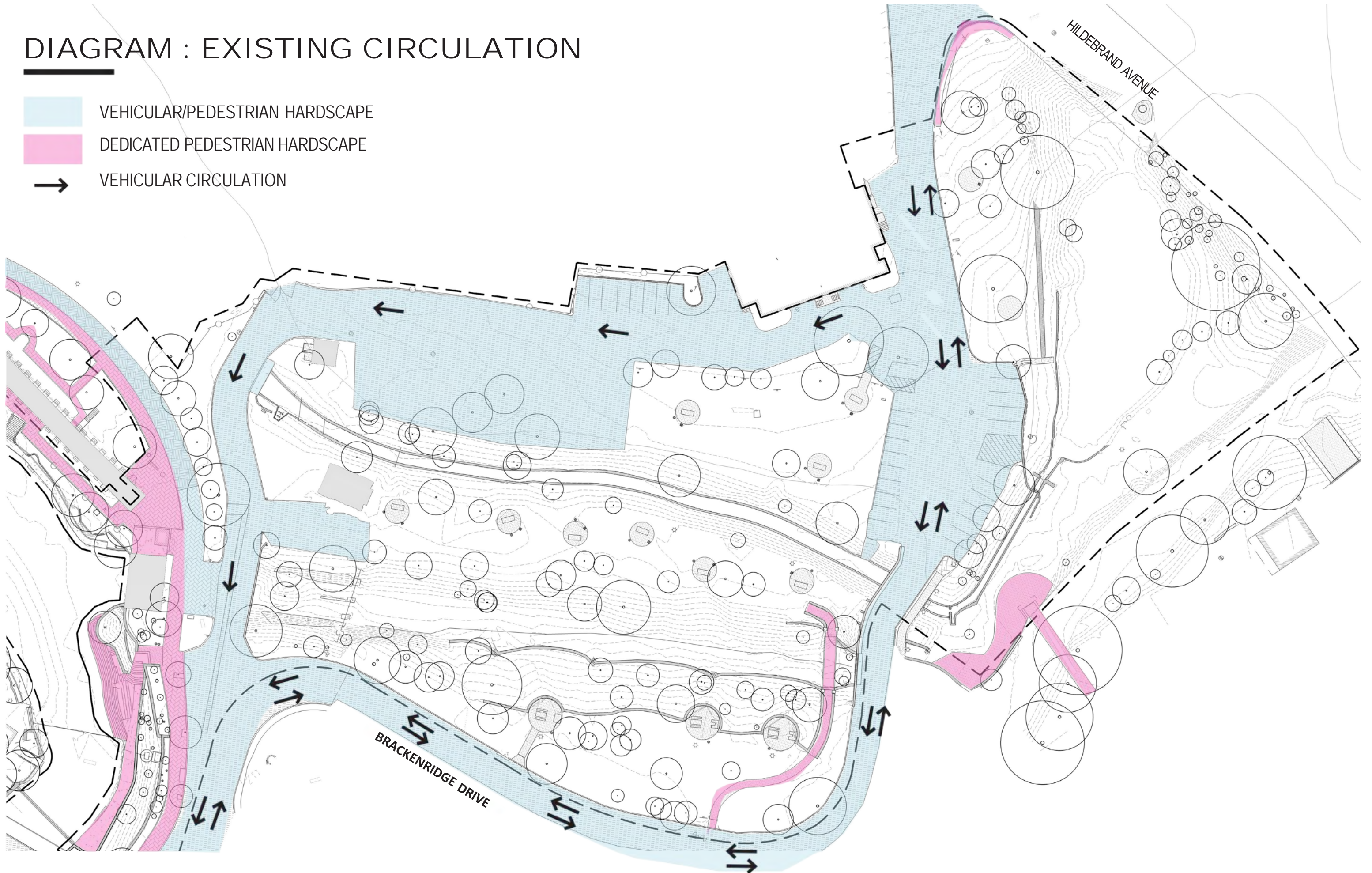
LOW SR VALUE MATERIALS :  
41,250 SF  
(CONCRETE AND ASPHALT)

HIGH SR VALUE MATERIALS : 30,800 SF  
(LIGHT COLORED CONCRETE, LIMESTONE PAVERS)




**PROPOSED DESIGN**

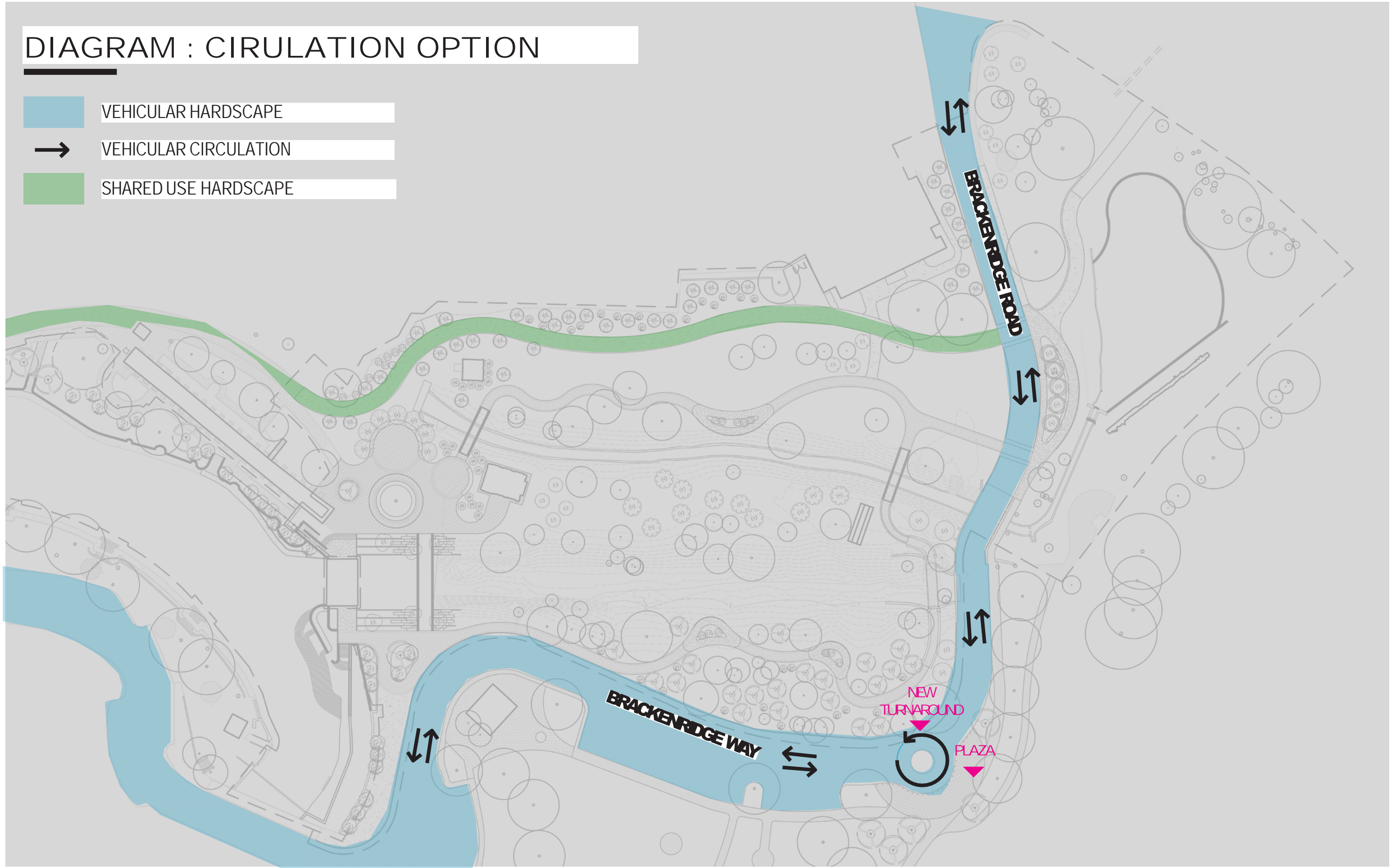
# DIAGRAM : EXISTING CIRCULATION

- VEHICULAR/PEDESTRIAN HARDSCAPE
- DEDICATED PEDESTRIAN HARDSCAPE
- VEHICULAR CIRCULATION



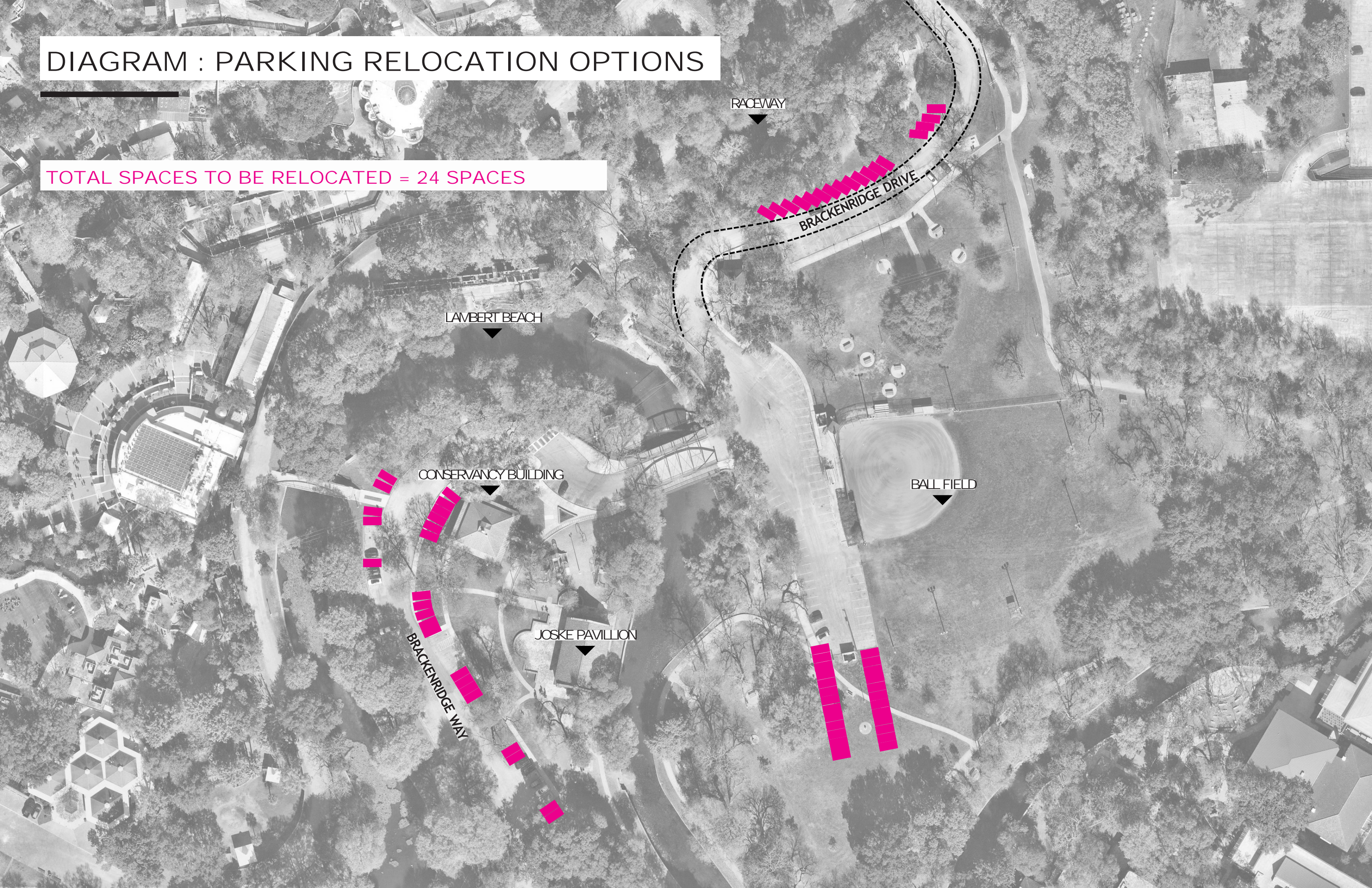
# DIAGRAM : CIRULATION OPTION

-  VEHICULAR HARDSCAPE
-  VEHICULAR CIRCULATION
-  SHARED USE HARDSCAPE



# DIAGRAM : PARKING RELOCATION OPTIONS

TOTAL SPACES TO BE RELOCATED = 24 SPACES



RACEWAY

BRACKENRIDGE DRIVE

LAMBERT BEACH

CONSERVANCY BUILDING

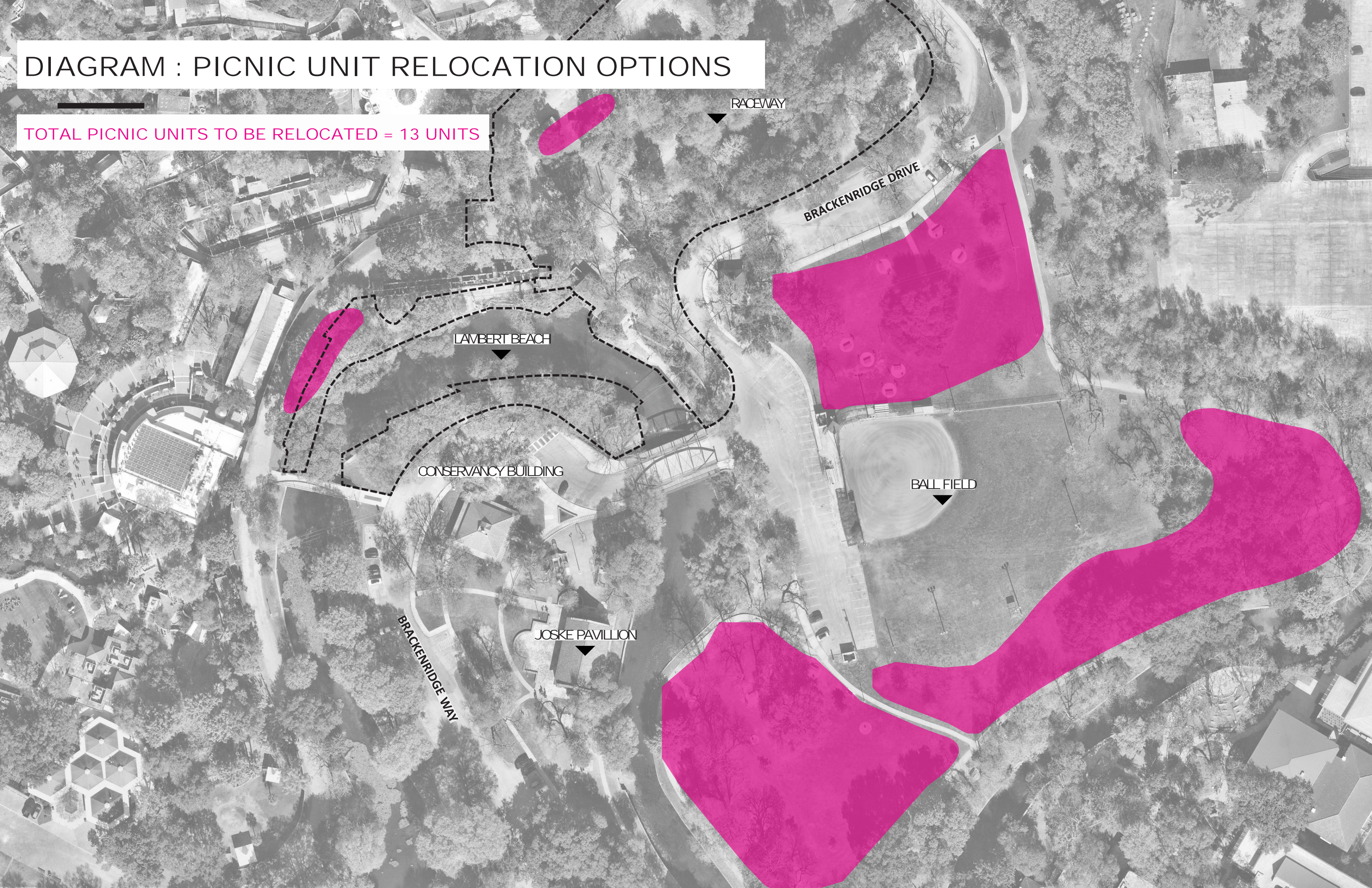
BALL FIELD

JOSKE PAVILLION

BRACKENRIDGE WAY

# DIAGRAM : PICNIC UNIT RELOCATION OPTIONS

TOTAL PICNIC UNITS TO BE RELOCATED = 13 UNITS



RACEWAY

BRACKENRIDGE DRIVE

LAMBERT BEACH

CONSERVANCY BUILDING

BALL FIELD

JOSKE PAVILLION

BRACKENRIDGE WAY

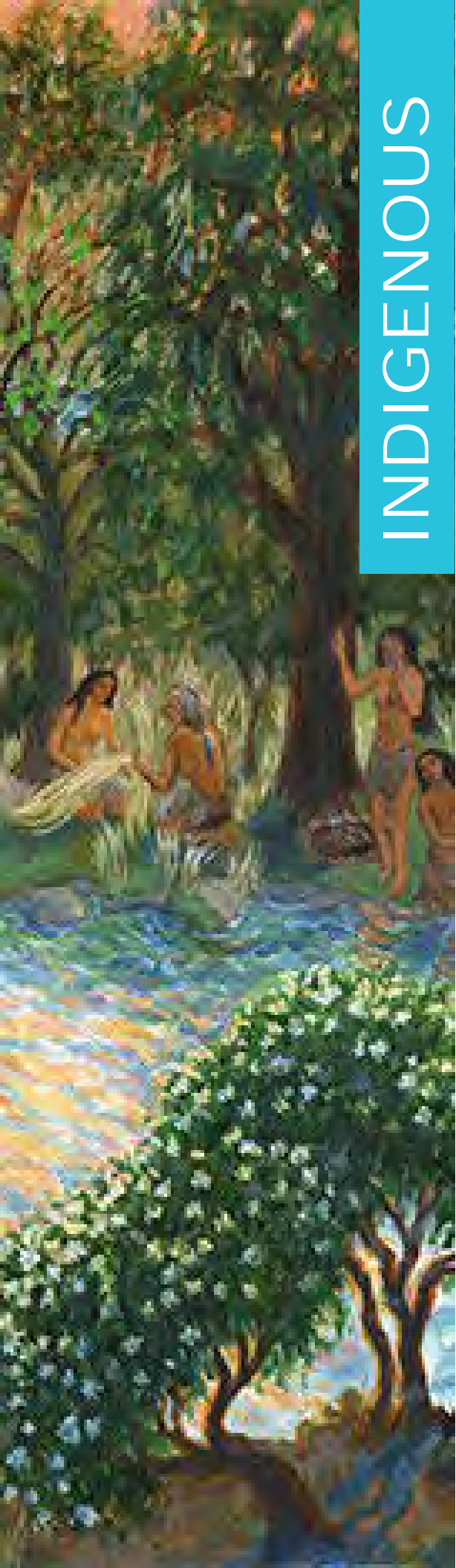
# CONCEPT PLAN

- |  |   |
|--|---|
| 01 IMPROVED LILY POND                  | 13 HISTORIC BATH HOUSE (NOT IN SCOPE)                   |
| 02 EXPOSED HISTORICAL DAM              | 14 IMPROVED ADA ACCESS                                  |
| 03 EDUCATIONAL PLAZA                   | 15 EXISTING UTILITY/MAINTENANCE BUILDING (NOT IN SCOPE) |
| 04 MIRA FLORES PARK CONNECTION         | 16 HISTORIC RACEWAY                                     |
| 05 HISTORIC ACEQUIA                    | 17 EXISTING UTILITY/MAINTENANCE BUILDING (NOT IN SCOPE) |
| 06 PROPOSED SPIRIT REACH CONNECTION    | 18 EXISTING PEDESTRIAN BRIDGE                           |
| 07 SHARED-USE ROAD                     | 19 NEW PEDESTRIAN BRIDGE                                |
| 08 CULTURAL TRAIL                      | 20 RENOVATED LAMBERT BEACH WALL AND STAIR               |
| 09 PUMP HOUSE PEDESTRIAN BRIDGE        | 21 HISTORIC FAUXBOIS BRIDGE                             |
| 10 HISTORIC PUMP HOUSE AND ARCH REVEAL | 22 HISTORIC DONKEY BARN (NOT IN SCOPE)                  |
| 11 GATHERING PLAZA                     | 23 OPEN LAWN  |
| 12 ARRIVAL PLAZA                       | 24 OUTDOOR CLASSROOM                                    |
|  | 25 NEW VEHICULAR TURNAROUND                             |



**NEXT STEPS**

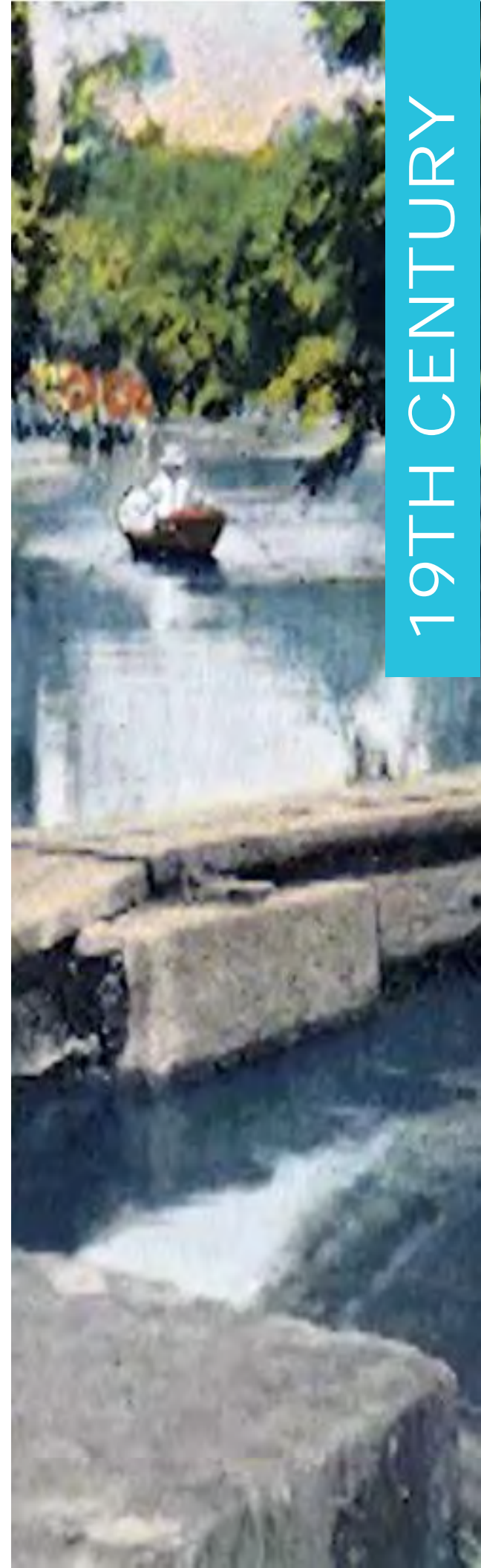




INDIGENOUS



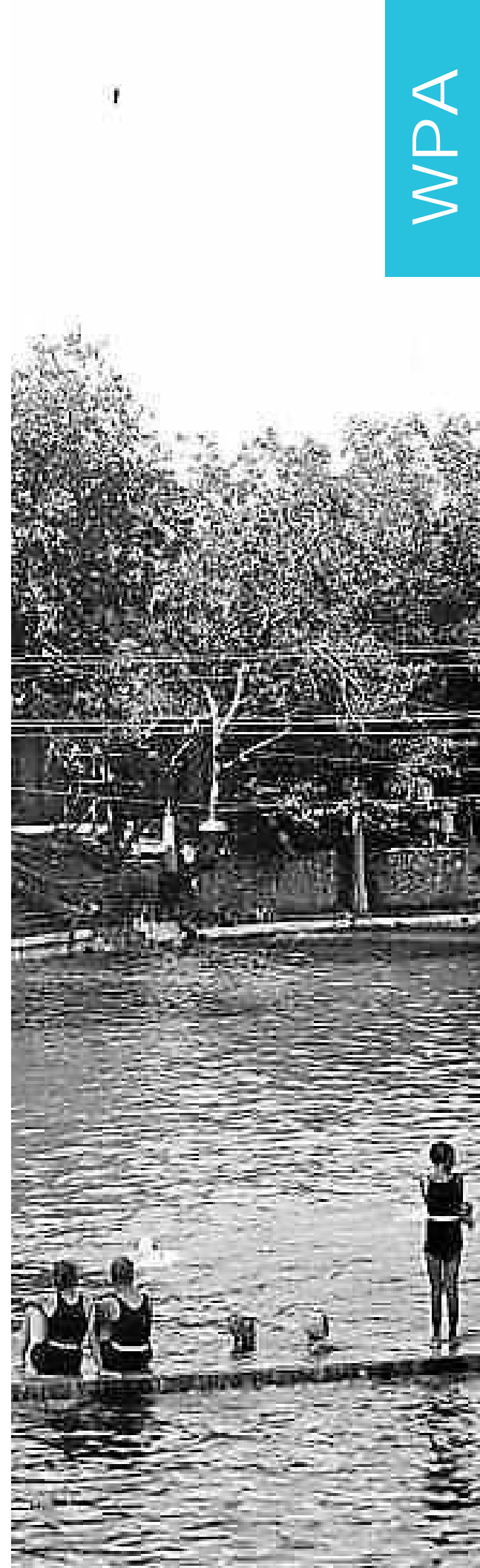
SPANISH COLONIAL



19TH CENTURY



WATERWORKS



WPA

# PHASE I

01 FINALIZE CONSTRUCTION DOCUMENTS FOR PHASE I

02 THC REVIEW

03 USACE PERMITTING

04 HDRC MEETING

05 BEGIN CONSTRUCTION

# PHASE II

01 MEETING WITH INDIGENOUS TRIBES - WAYFINDING & INTERPRETATION

02 PHASE II CONSTRUCTION DOCUMENTS

03 THC REVIEW

04 USACE PERMITTING

05 HDRC MEETING

06 BEGIN CONSTRUCTION

# brackenridge park

A POSTCARD PLACE LOST IN TIME

PUBLIC STAKEHOLDER FINAL MEETING #07

31 August 2022

