

UNIVERSITY OF NEW ORLEANS MASTER PLAN

APPENDIX E : COMPREHENSIVE WATER (ECOLOGY / RESILIENCE) ASSESSMENT
CIVIC STUDIO

Water (Ecology/Resilience)

Civic Studio Final Outputs



Summary of Key Findings

1. **The coastline of New Orleans is always changing.** A resilient campus plan and design strategies will accommodate change, e.g., in sea level, salinity, waterfront development.
2. **UNO occupies a ridge** and slopes down towards the low-lying St. Anthony neighborhood. This means reducing stormwater runoff from UNO will benefit not just UNO, but the rest of Gentilly as well by alleviating the load on Drainage Pump Station 4.
3. **See UNO as part of a broader ecology.** Understand it as part of a changing coastline, as part of the intercontinental Mississippi Flyway, as a landscape of oaks and cypresses and other trees that will outlive most of us. We can develop urban design strategies that relate to these longer timeframes, and UNO's community as stewards of a particular lakefront ecosystem.
4. **Parking is/is not the problem.** Massive parking lots result in large volumes of runoff. A decisive shift towards a multi-modal campus where parking occupies far less space will radically reduce UNO's stormwater impact on the city. (Water management cannot be addressed as a standalone issue.)
 - a. **Direction 1: Keep parking as is**, but retrofit with large amounts of green infrastructure. This may be effective in reducing runoff and improving water quality, but will likely be cost prohibitive in terms of both initial investment and long-term maintenance costs.
 - b. **Direction 2: Invest in a multi-modal campus** that substantially reduces parking needs. Depave unnecessary parking areas and planting low-maintenance landscapes will be high impact and have lower maintenance costs.

Restoration is imperative for healing the earth, but reciprocity is imperative for long-lasting, successful restoration. Like other mindful practices, ecological restoration can be viewed as an act of reciprocity in which humans exercise their caregiving responsibility for the ecosystems that sustain them. We restore the land, and the land restores us.

-Robin Wall Kimmerer

Pre-colonial

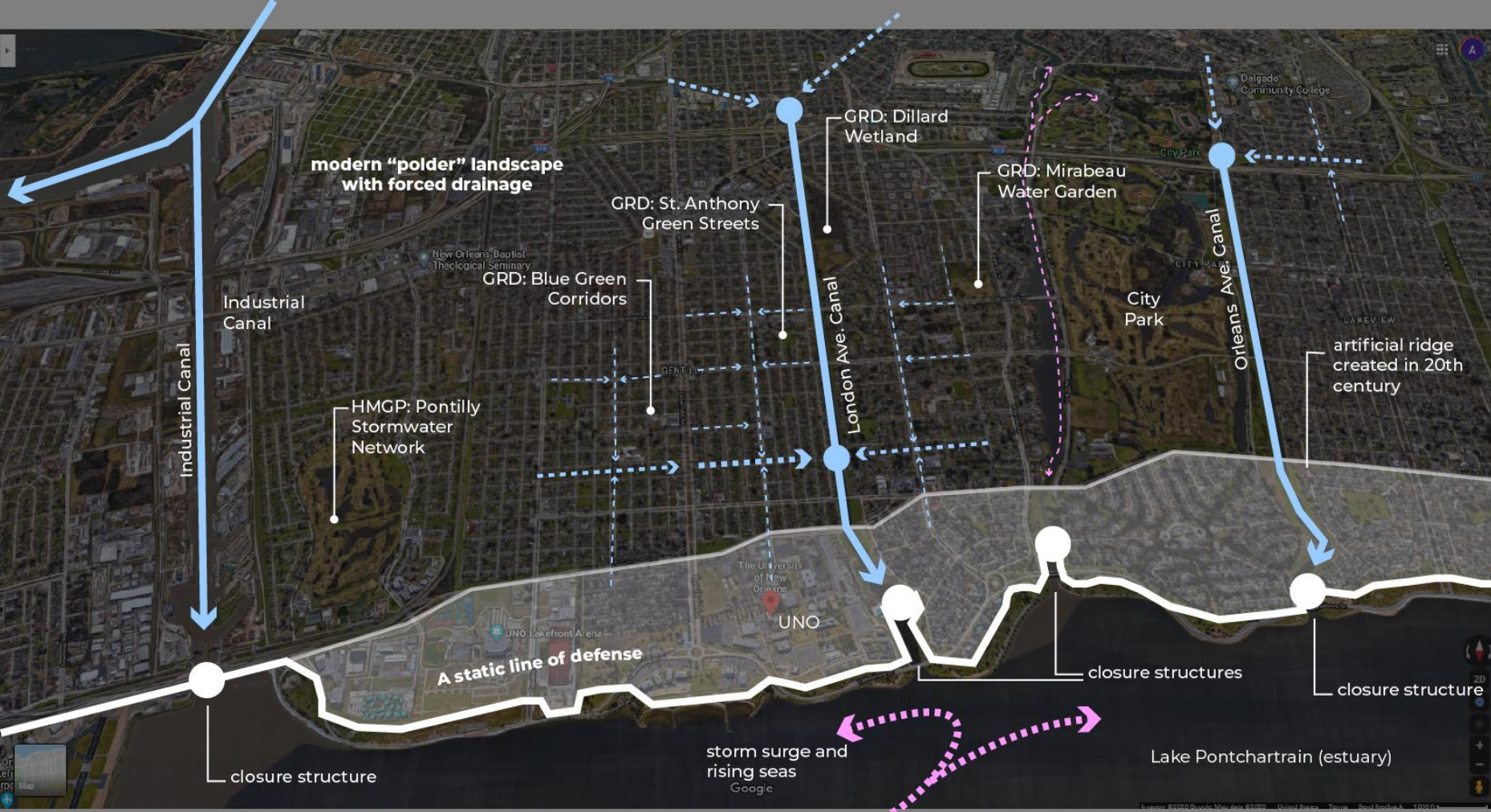
The Mississippi River, its distributaries, and myriad bayous once flowed across the delta, overflowing or breaking through their banks and depositing fresh sediment across present-day Gentilly. The coastline shifted with each spring flood, tropical storm, and the changing tide.



-  Freshwater
-  Brackish Water

Present-day

In the present-day, modern forced drainage and flood protection measures have resulted in a radically different landscape. Artificial fill, upon which UNO is situated, forms a ridge separating the lake from the rest of Gentilly and the rest of the city. Levees, floodwalls, and massive closure structures repel storm surge, while pump stations within the levees drain stormwater and groundwater from neighborhoods that are now below sea level.



GRD: Gentilly Resilience District

— Freshwater

— Brackish Water

Hardened Edge

Even into the 20th century, the lakefront was a gentle slope into the waters of Lake Pontchartrain, as seen in the image on the left. The introduction of the concrete seawall at the water's edge, seen in the image on the right, hardened and straightened the coastline.

Next two slides

USGS maps and historic photos over a century show how much the coastline has changed, with the city expanding out into the lake (red cross marks the same location on each map), and hardening its edge with the concrete seawall that is especially prominent in the 1936 map.

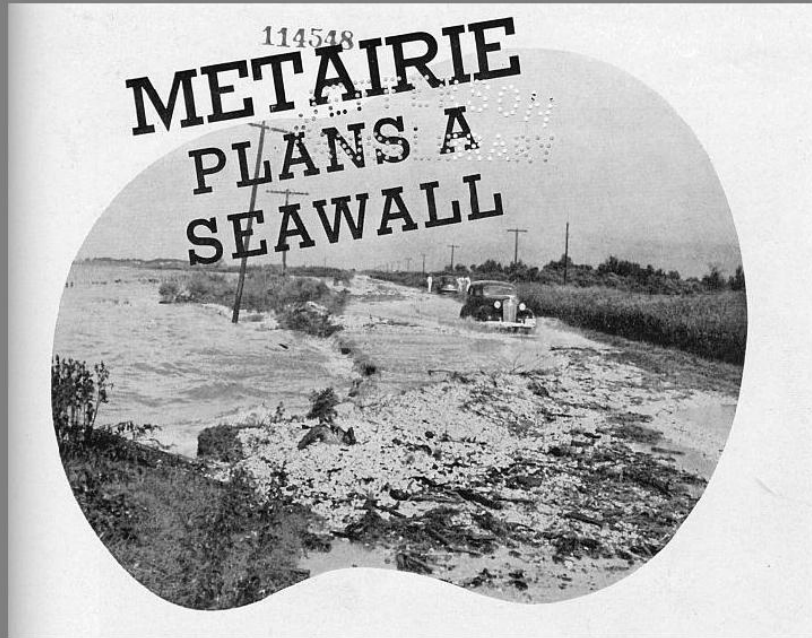
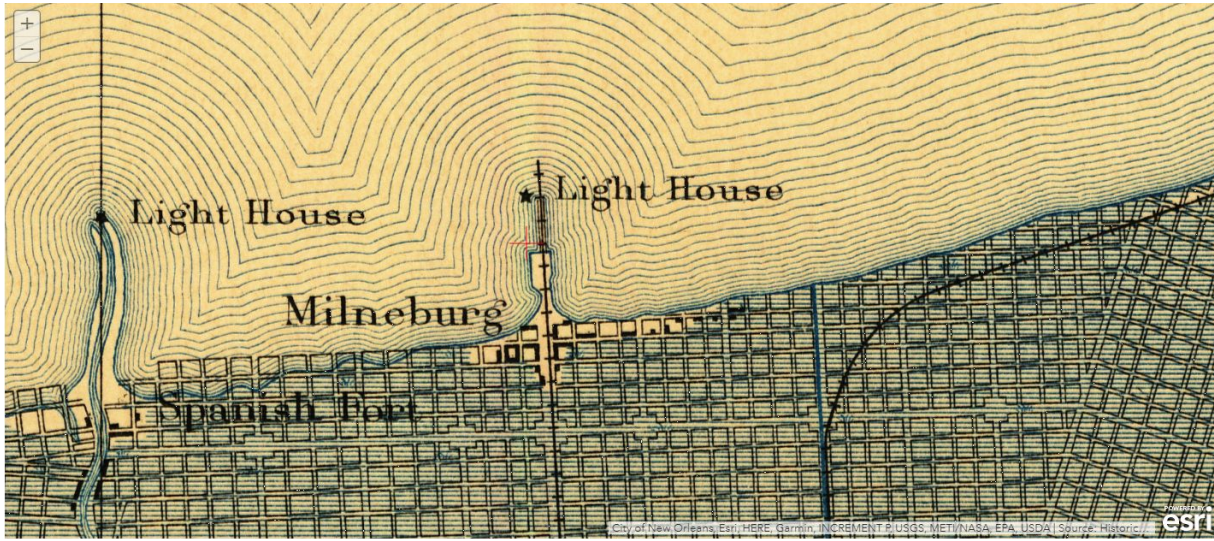


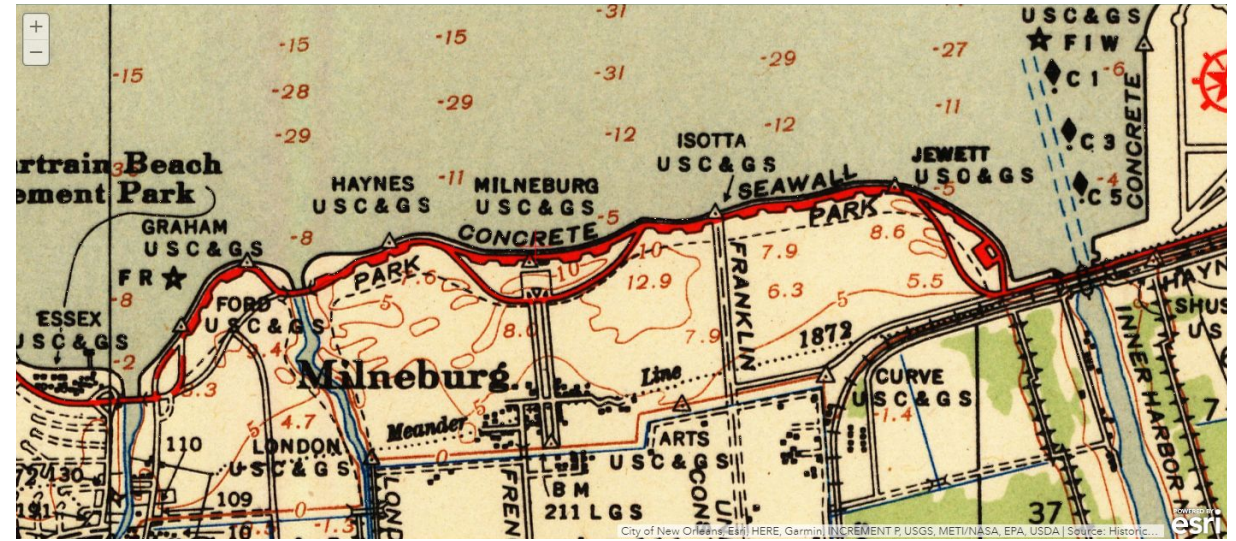
Image: Jefferson Parish Yearly Review



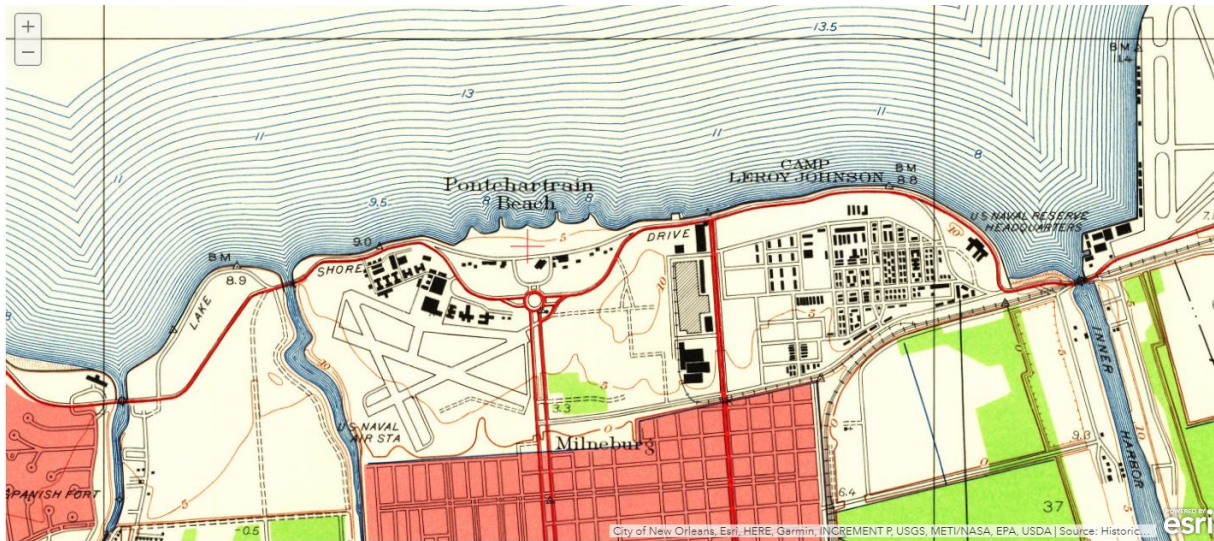
Photo: Charles L. Franck
Franck-Bertacci Photographers Collection / The Historic New Orleans Collection



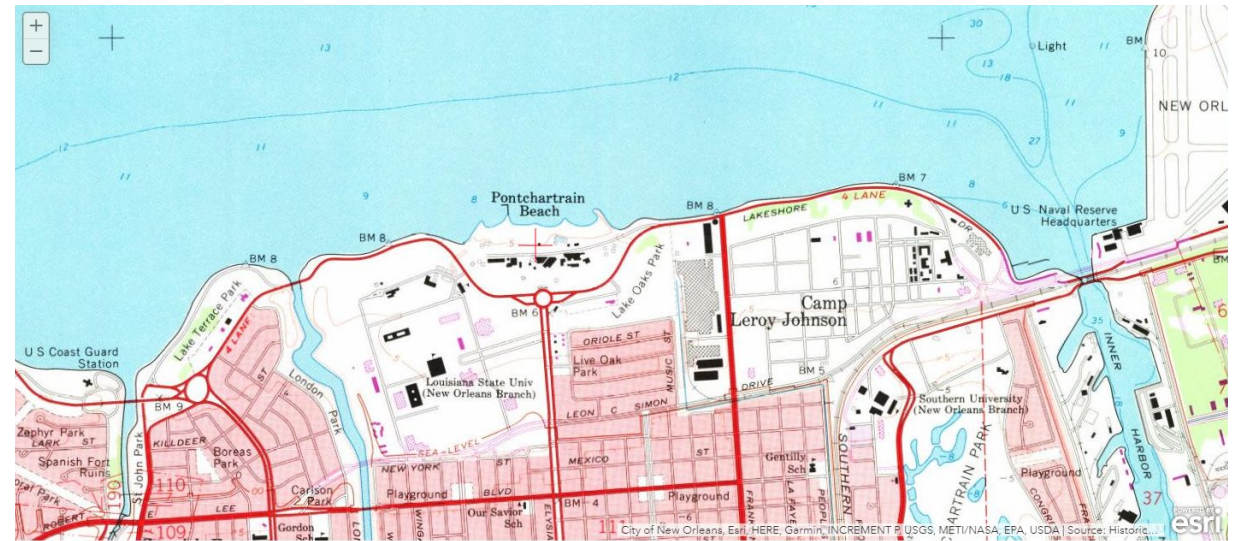
1890



1936



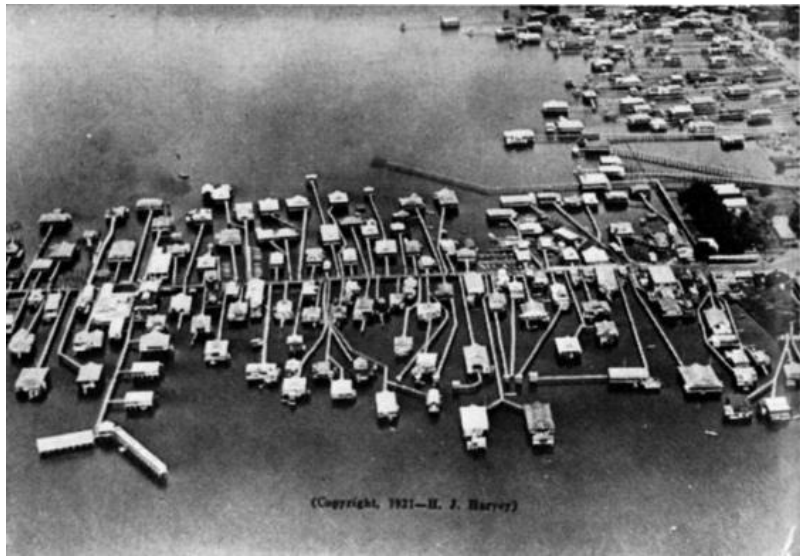
1951



1972



1992



UNO Special Collections (<http://library.uno.edu>)



1930s



1940s to 1960s



Pontchartrain Beach, a segregated amusement park

Images: New Orleans Public Library City Archives & Special Collections

Water Issues

1. Localized flooding due to rainfall negatively impacts quality of life -- e.g., ponding along pathways and at entries makes it more difficult to move around campus
2. UNO runoff contributes to the city's drainage pumping load and flood risk for lower-lying areas
3. Long-term risk from tropical storms and sea level rise



Katrina, 2005



Hardwood Dr.



University Center



Liberal Arts Building



St. Anthony



Engineering Parking Lot

Water & Soils Issues

1. The city's drainage system relies on pumping to remove stormwater from the city's neighborhoods. The dewatering of soils causes the ground to sink, particularly in former swampland, such as Gentilly.
2. Subsidence, the sinking of the ground, compromises infrastructure such as sidewalks, roadways, and utilities, as well as building foundations.



Images show evidence of significant subsidence along UNO's southern edge, including exposed manhole vaults (above) and collapsing sidewalks (left).

Water & Soils Issues

1. The city's drainage system relies on pumping to remove stormwater from the city's neighborhoods. The dewatering of soils causes the ground to sink, particularly in former swampland, such as Gentilly.
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Images show evidence of significant subsidence on the east campus (above) and also at NET Charter, at the intersection of Leon C. Simon and Franklin.

Design

3. Break Out Room: PARKING

Design Question

How might we manage water in a way that reduces flooding (dry feet! easy to transit through campus) and re-use water (capture for landscaping, educational tool, etc)?
Connecting parking lots to nice places to stay, be in place?

3. Break Out Room: GATEWAYS / ENTRIES

Design Question

How might we integrate water features in a way that supports better bike and pedestrian access and creates real front doors and connections into campus?

3. Break Out Room: QUAD/COURTYARD

Design Question

How might we slow/store (e.g. detention, retention, & infiltration) water in a way that attract people (e.g. for the awareness of green infrastructure/biodiversity/campus/NOLA history, walkability, reduce heat island effect, & the quality of campus life for students and local residents)?

4. Break Out Room: OUTDOOR GATHERING

Design Question

How might we MANAGE water in a way that ENHANCES CAMPUS LIFE and ATTRACTS WILDLIFE?

Design questions from Fall 2021 Water and Urban Design Workshop



Design Principles

1. Slow & store stormwater through changes in land use patterns, vegetation, and detention/retention features.
2. Improve wayfinding, identity, & placemaking through landscape interventions
3. Strengthen regional and local ecology through landscape interventions

1) How water storage is critical to preserving the type of soil necessary made of.

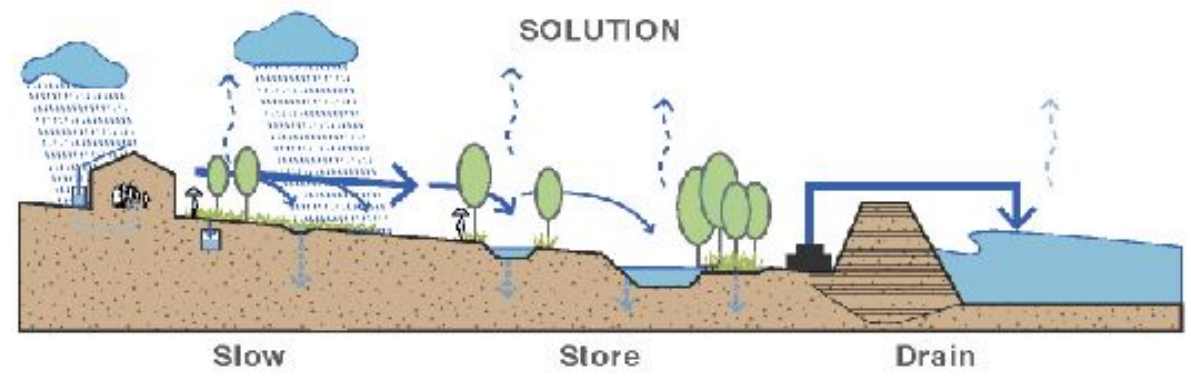
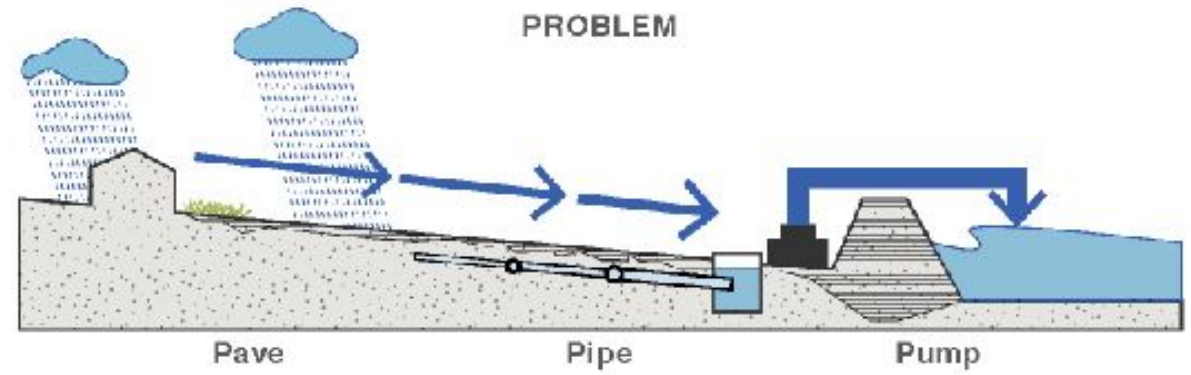
2) Beautiful campus that can be enhanced + more welcoming to community

Where can rain water be stored?

How CAN WE GET MORE STUDENTS, FACULTY, AND COMMUNITIES MORE ENGAGED AND MINDFUL OF CREATING A MORE SUSTAINABLE ENVIRONMENT.

Are there more sustainable campus landscapes than traditional grass lawns?

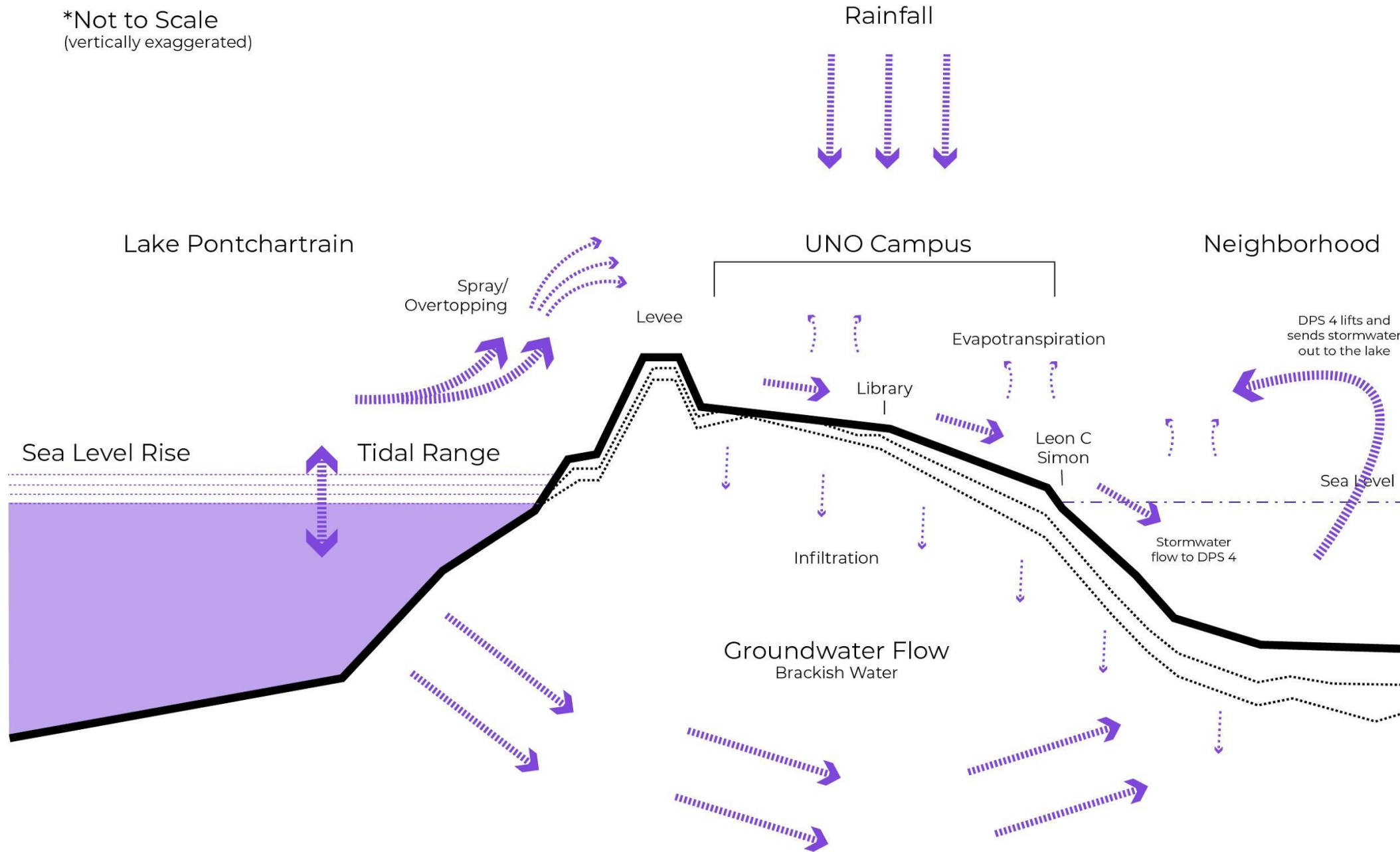
How can we build a connection between all 3 campuses?



Interactive Walk Cards

Greater New Orleans Urban Water Plan Principles

*Not to Scale
(vertically exaggerated)



Water Flow / Subsidence

UNO is a ridge of (artificially created) land between an estuary (the lake) and the rest of the city. Pumping is causing the city to sink.

*Not to Scale
(vertically exaggerated)

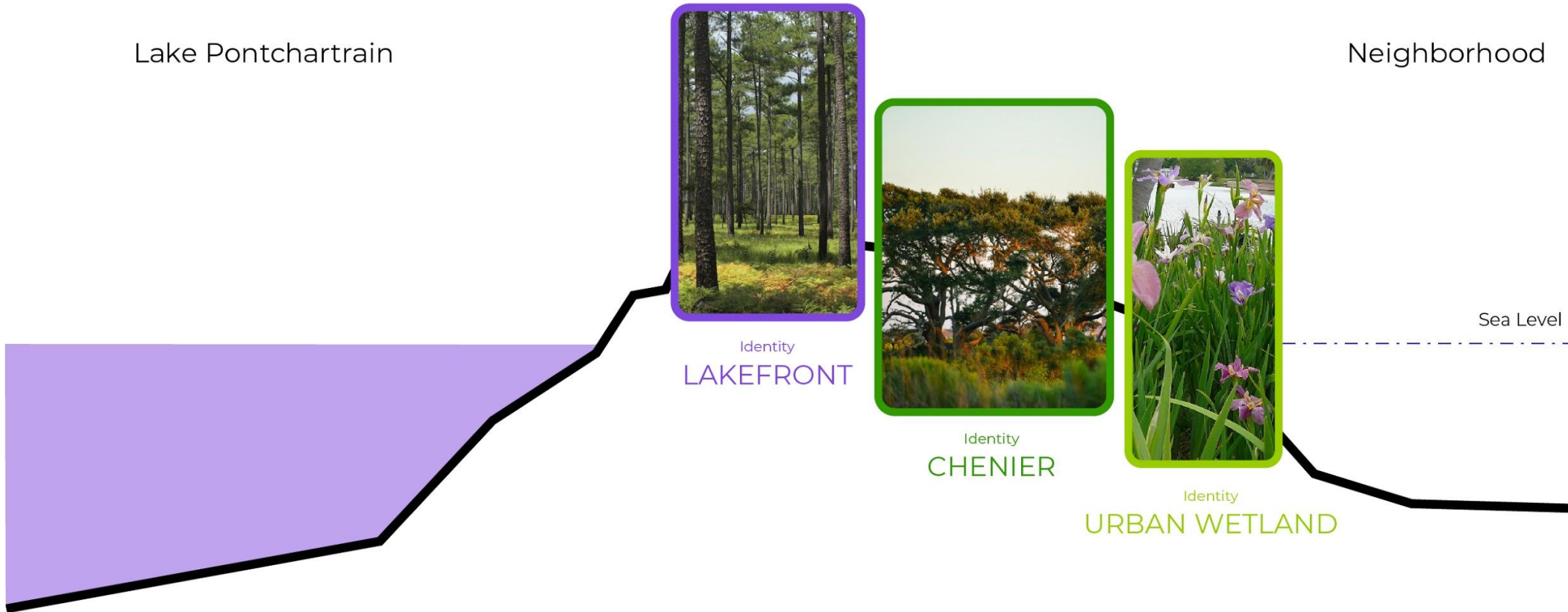
Lake Pontchartrain

UNO Campus

Neighborhood

Identities

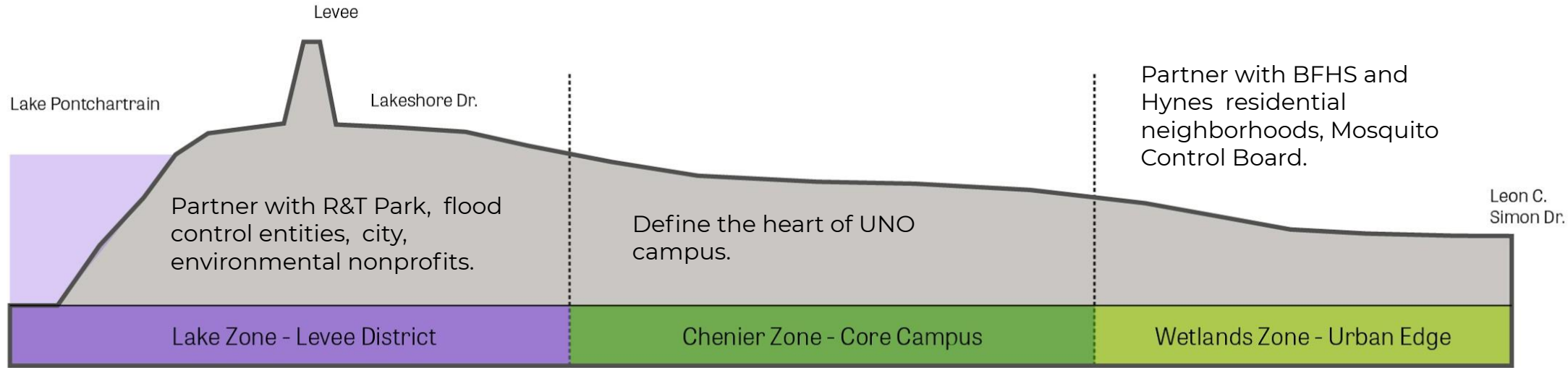
Draw inspiration and ecological knowledge from delta ecosystems to guide plant selection and urban design across campus.



Sea Level

Identities

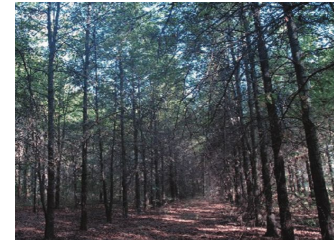
Use native plants and ecological knowledge from delta ecosystems as well as stormwater management principles to inform identities.



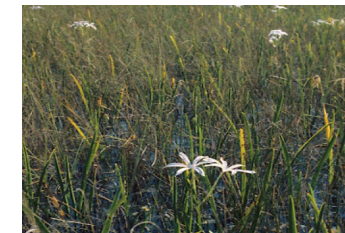
- Wind tolerant
- Tolerate erosion from wave action and potential salinity from lake spray and potential overtopping
- Tolerate pollution from streets and buildings in stormwater runoff
- Tolerate urban soils - compactions and pollution
- Foster wildlife habitat: provide nesting, cover, fruit and seeds for food; additionally grasses attract butterflies
- Bring the "lake feel" to campus








- Increase shade when walking across campus
- Tolerate compacted urban soil
- Tolerate pollution from street and buildings in stormwater runoff
- Reduce runoff from campus
- Foster wildlife habitat: trees nesting, cover & food source + flowering plants attract bees & butterflies
- Identifies the core of campus



- Tolerate standing water
- Closer to water table - ability to handle potential salinity from groundwater intrusion
- Retain and filter runoff from higher parts of campus
- Foster wildlife habitat - fruit and nectar for birds and insects
- Create a wetlands feel - identifies the south/ lower end of campus



Decision Matrix

| CONDITIONS | ACTION | RECIPROCITY |
|---|---|---|
|  <p>Ponding water and damaged infrastructure decrease water quality</p> | Strategically implement green infrastructure, depaving and plantings | Net gain of toxin and ecosystem repair while benefitting Gentilly neighbors through reducing heat island, stormwater runoff |
|  <p>Lacking habitat (refuge and feeding) for wildlife</p> | Plant diverse native species with year-round visual interest | Increased species range reduces risk of biodiversity loss (even a small forest in a small space can be beneficial) |
|  <p>Gaps in campus canopy - discourage walking across campus and gathering in certain areas</p> | Strategically plan for canopy cover, visual interest and safety | |
|  <p>UNO doesn't have a strong cohesive campus Identity</p> | Planting palette builds upon existing vegetation and creates cohesion throughout zone to create wayfinding and a lively UNO identity | Build ecological identity with proud alumni base as long-term stewards of UNO and broader environment |
|  <p>Limited funds for installation and maintenance costs</p> | Select locally available native materials whenever possible. Planting palette and GI interventions should take into account long term costs | Maintenance plans provides value to the underappreciated labor that is required to maintain the built environment |



Existing Conditions

Botanical Strategy



Pinus elliottii
Slash Pine
60-100ft



Sabal palmetto
Cabbage Palm
30-70ft



Sabal minor
Dwarf Palmetto
5-10ft



Andropogon gerardi
Big Bluestem
4-8ft



Panicum virgatum
Switchgrass
3-6ft



Tripsacum dactyloides
Eastern Gamagrass
3-6ft



Muhlenbergia capillaris
Gulf Muley Grass
1-3ft



Pinus taeda
Loblolly Pine
70-100ft



Persea borbonia
Redbay
30-70ft



Quercus texana
Nuttall Oak
40-60ft



Magnolia virginiana var. australis
Sweetbay Magnolia
10-20ft



Solidago ludoviciana
Goldenrod
3-5ft



Echinacea purpurea
Coneflower
2-4ft



Ruellia humilis
Prairie Petunia
1-3ft



Taxodium distichum
Bald Cypress
50-70ft



Cephalanthus occidentalis
Button Brush
6-12ft



Amorpha canescens
Leadplant
3-6ft



Pteridaria cordata
Pickerelweed
1-3ft



Crinum americanum
Swamp Lily
1-3ft



Sagittaria lancifolia
Bulltongue Arrowhead
1-3ft



Iris spp
Louisiana Iris
1-3ft



It is vital during site analysis to assess soils, hydrology, microclimate, typography, appropriate setbacks, the safety of pedestrians and various modes of transit, and species and aesthetic diversity to develop planting platte and patterns.



Birds - specimens provide habitat and nesting material, while other bird friendly plants are a source of food



Bees- pollen sources provide bees with food. Inc in bees = potential inc in pollination of other plants. Ones noted here have special value to native bees



Butterflies - nectar point sources where butterflies are attracted to feed



Salt- mature specimens thrive despite harsh saline conditions that can harm other plants



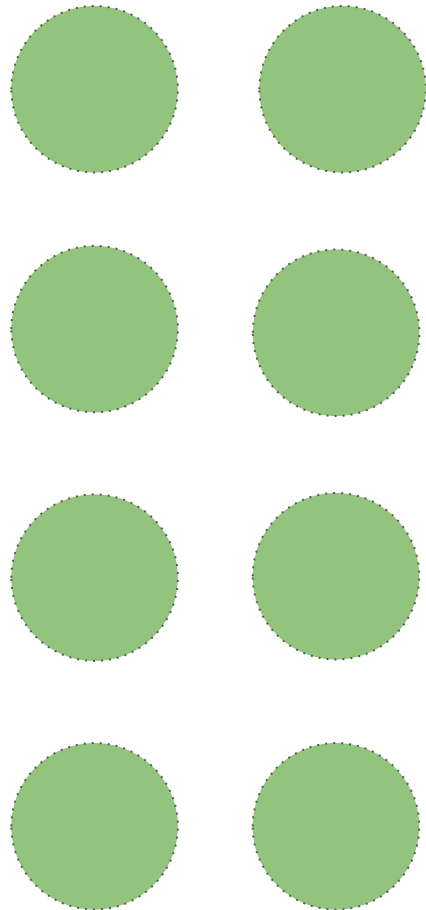
Wet tolerant- ability to withstand long standing wet conditions

flowering strategies

Planting Patterns

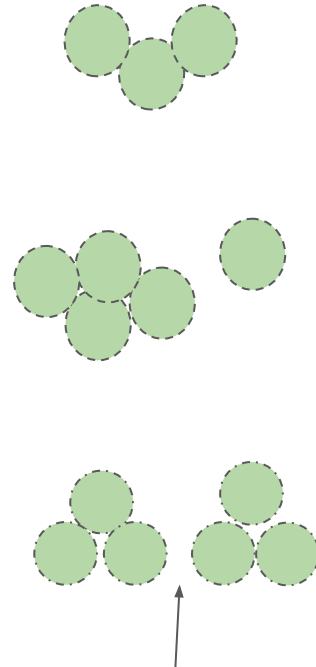
Corridors

Strategy for curating corridors and allees of street trees -creates shade, manages water, wind and views.



Clusters

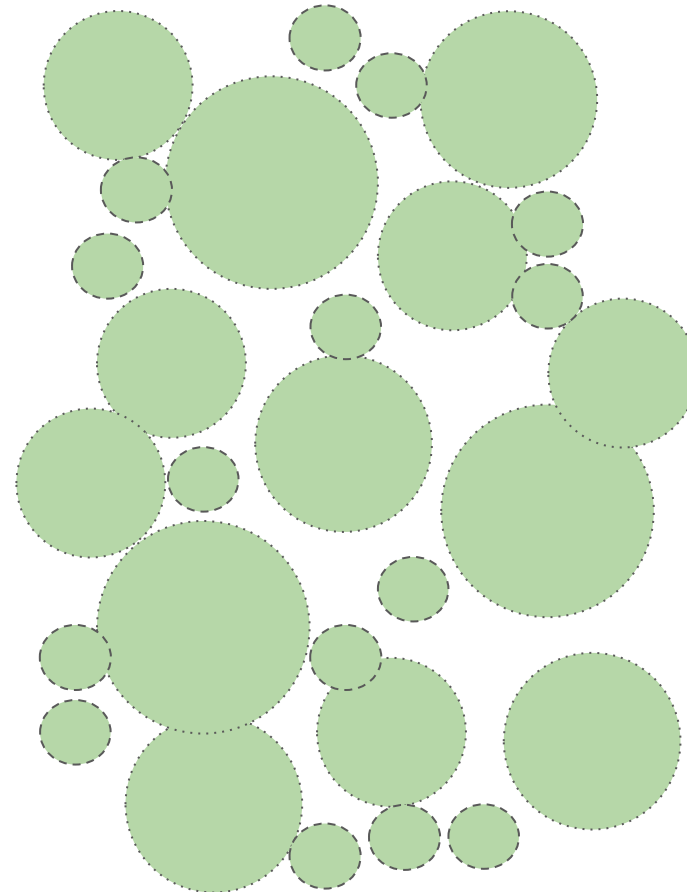
Strategy for creating habitat, managing water, and developing structures and forms for visual framing and interest.



cluster can create focal points, or frame picturesque views and belvederes

Forest (large scale)

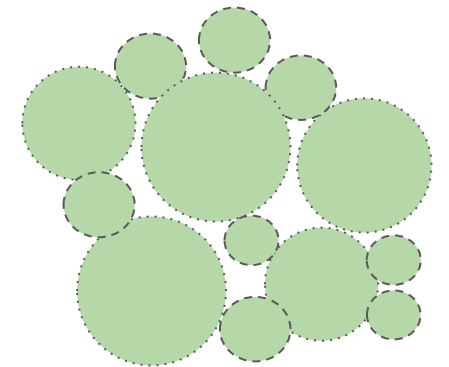
Strategy for creating more diverse habitats with greater density of vegetation, at multiple levels, from canopy to understory to ground cover.



Forest (small scale)

Investments in small areas can still yield results and provide different rhythms such as a dense planting of trees behaving in a unique manner.

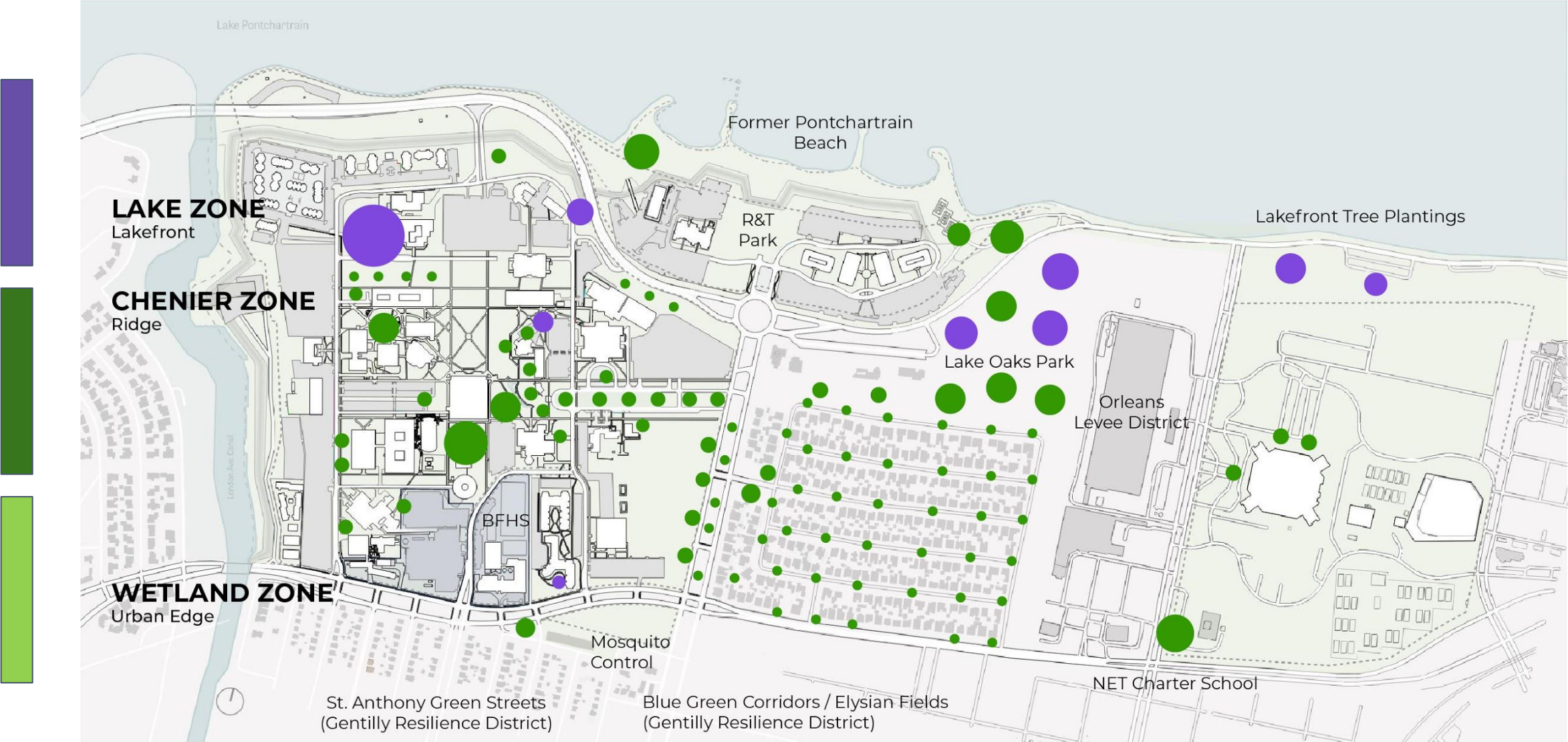
Consider [Miyawaki Forest techniques](#)



All pattern interventions are scalable to meet site needs

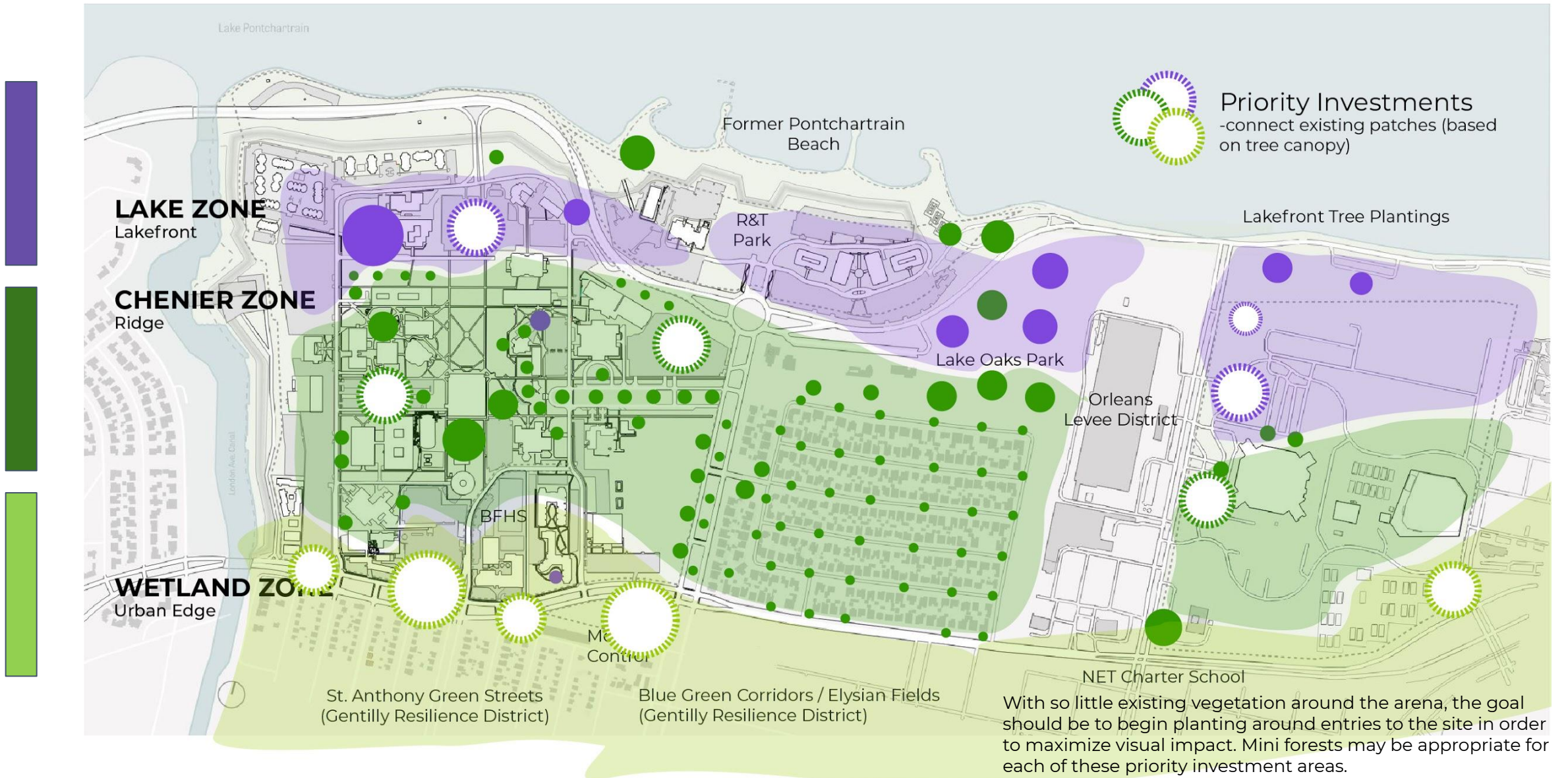
Connectivity: Bird's Eye View

Each dot represents an area of tree cover (and not individual trees). Here, we use what a bird sees from above as a stand-in for delineating patches, using the language of landscape ecology. The goal is to grow and connect existing patches.



Connectivity: Bird's Eye View

This diagram overlays the identities from previous slides, and identifies locations where investing in depaving and vegetation will have the greatest ecological impact because of how those investments will connect existing patches and build towards a cohesive identity for each zone.



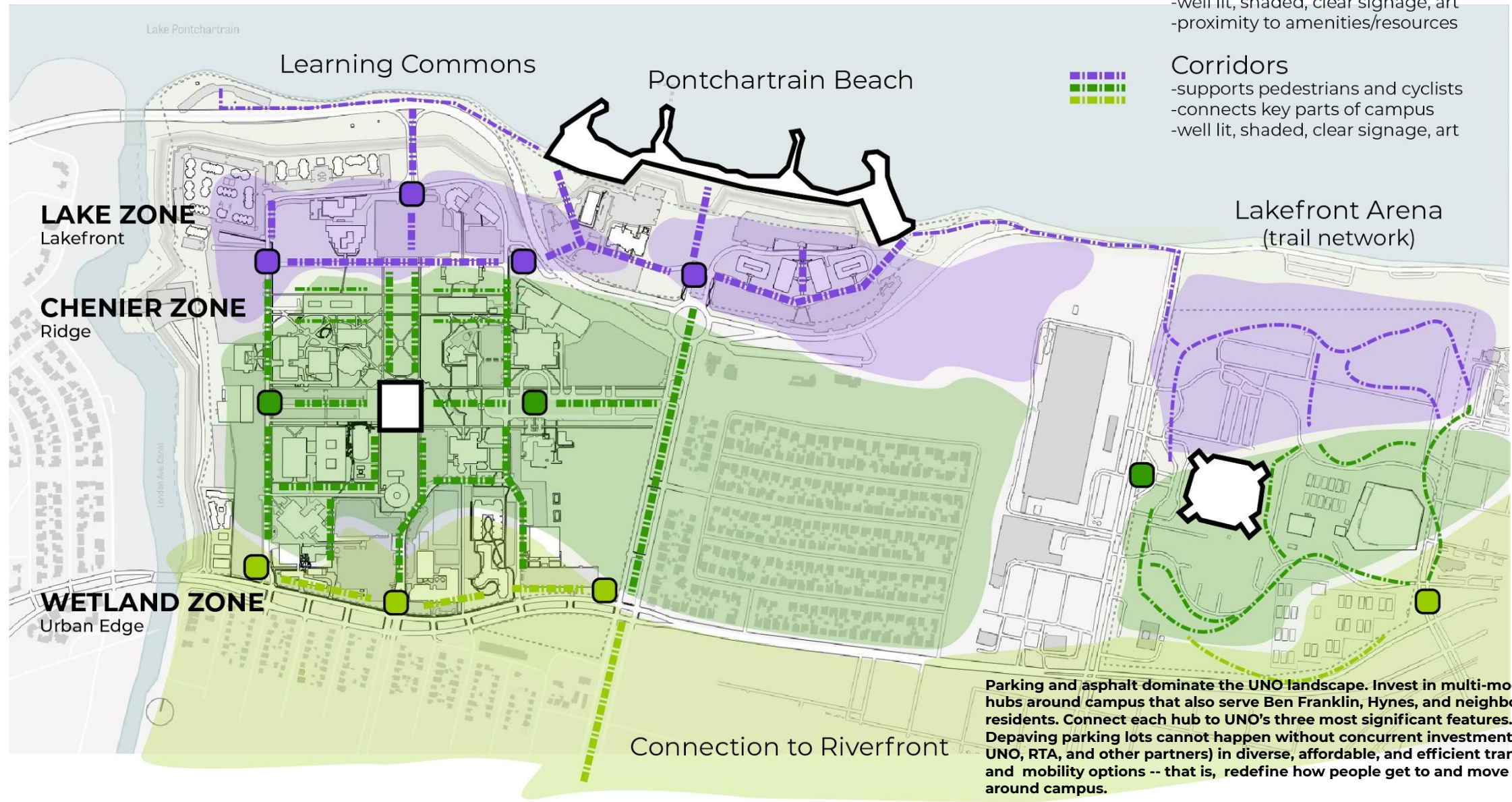
Connectivity: Hubs and Corridors



- Multi-modal hubs**
- access to public transit
 - serves diverse communities
 - bike racks and sharing
 - well lit, shaded, clear signage, art
 - proximity to amenities/resources



- Corridors**
- supports pedestrians and cyclists
 - connects key parts of campus
 - well lit, shaded, clear signage, art



Parking and asphalt dominate the UNO landscape. Invest in multi-modal hubs around campus that also serve Ben Franklin, Hynes, and neighborhood residents. Connect each hub to UNO's three most significant features. Departing parking lots cannot happen without concurrent investments (by UNO, RTA, and other partners) in diverse, affordable, and efficient transit and mobility options -- that is, redefine how people get to and move around campus.

Existing Conditions: Lakefront

The levee separates campus and city from the lakefront -- the wind, temperatures, sounds, and light quality are different on either side. But even behind the levee, one hears and sees the shorebirds. Storm surges accompanying hurricanes flood lakeside gathering spaces and vegetation with the brackish water of Lake Pontchartrain.



Existing Conditions: R&T Park and Former Pontchartrain Beach



The most advantageous real estate, fronting Pontchartrain Beach and at the end of Elysian Fields, is dominated by a floodwall and two-story parking garage. R&T Park functions as a suburban office park, but the large number of occupants suggest a critical role for R & T in initiating (along with UNO and other lakefront stakeholders) improving public transit along the historic Elysian Fields corridor (formerly the connection from Milneburg to the French Quarter by rail).

Existing Conditions: Arena

Large expanses of grass and asphalt in a landscape designed for automobiles. Some trees adjacent to arena to reinforce fence line, but otherwise no tree canopy. A lone pine tree, shipping container structure (top left), and mound adjacent to baseball field suggest low-cost opportunities that would be available for transforming this area using variations in topography, tree plantings, and public art.



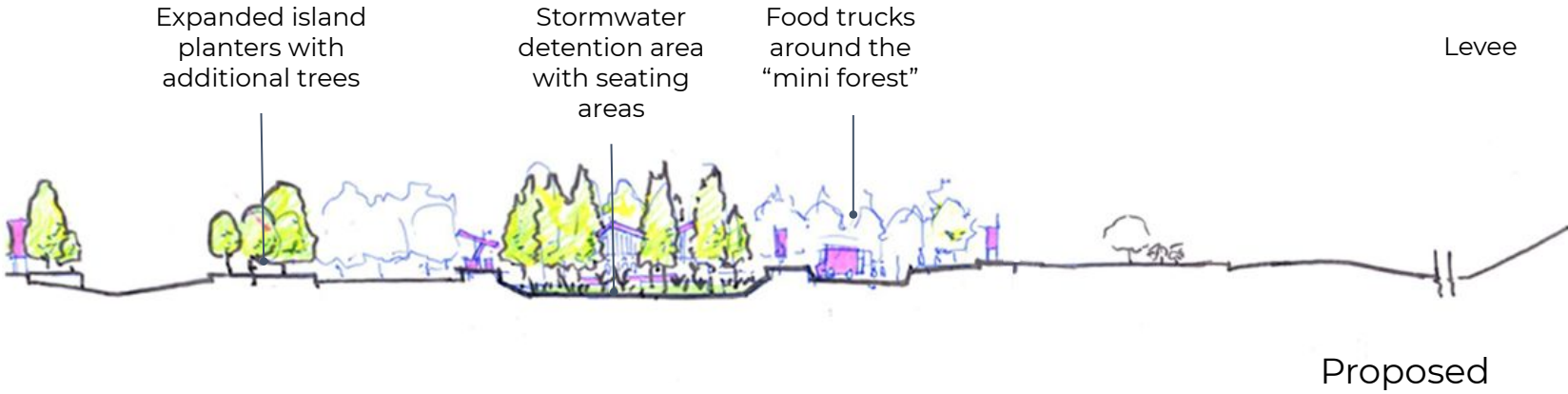
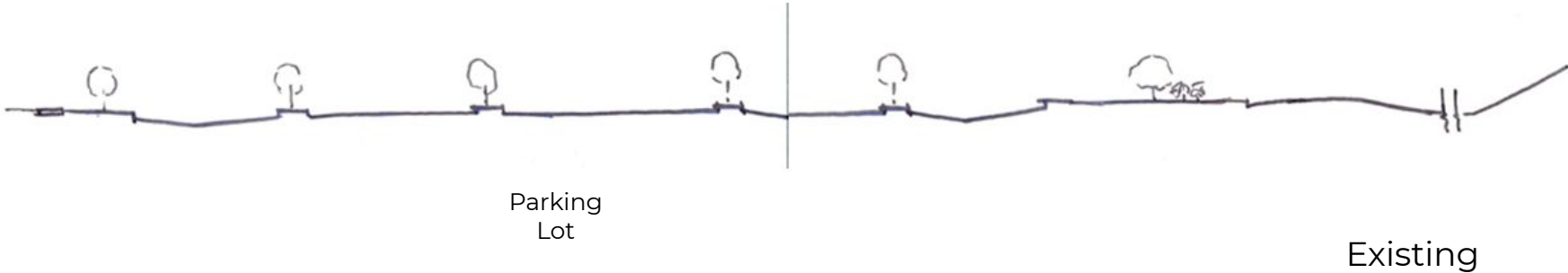
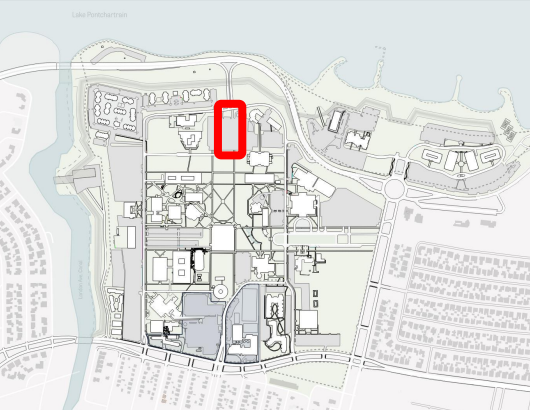
Existing Conditions: Urban Edge and NET Charter

NET Charter's campus includes an impressive cluster of oak trees at the intersection of Leon C. Simon and Franklin. Continuing these rows of trees down Franklin would transform the Franklin Corridor and the main approach to the Lakefront Arena. NET Charter also features a Groundwork water/solar bench (bottom right) and a construction training area (top right), which suggest opportunities for partnership in both programs and campus connections.



Lake Zone + Parking

Where UNO meets the lakefront, reimagine the parking lot as a vital public space for both the UNO community and lakefront visitors.



Lake Zone + Parking

Mini Forest planting strategy with first pioneer planting.



Slash Pine
15-30x



Gulf Muhly
20-30x



Sabal Palmetto
10-20x



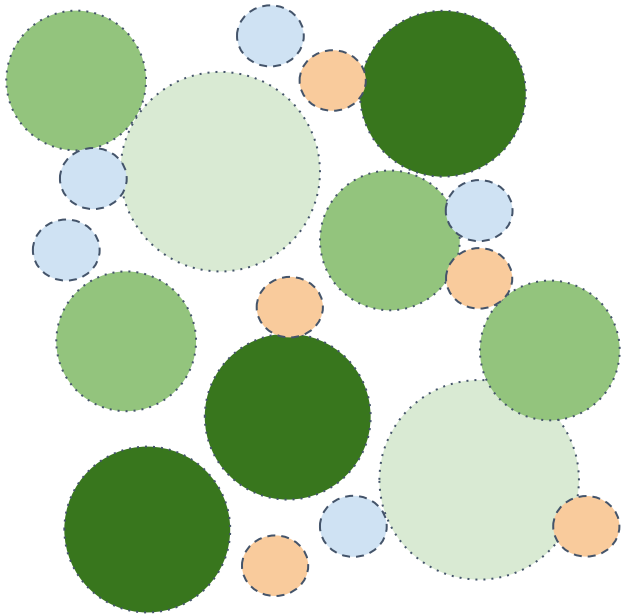
Eastern Gamagrass
20-30x



Switch grass
20-30x



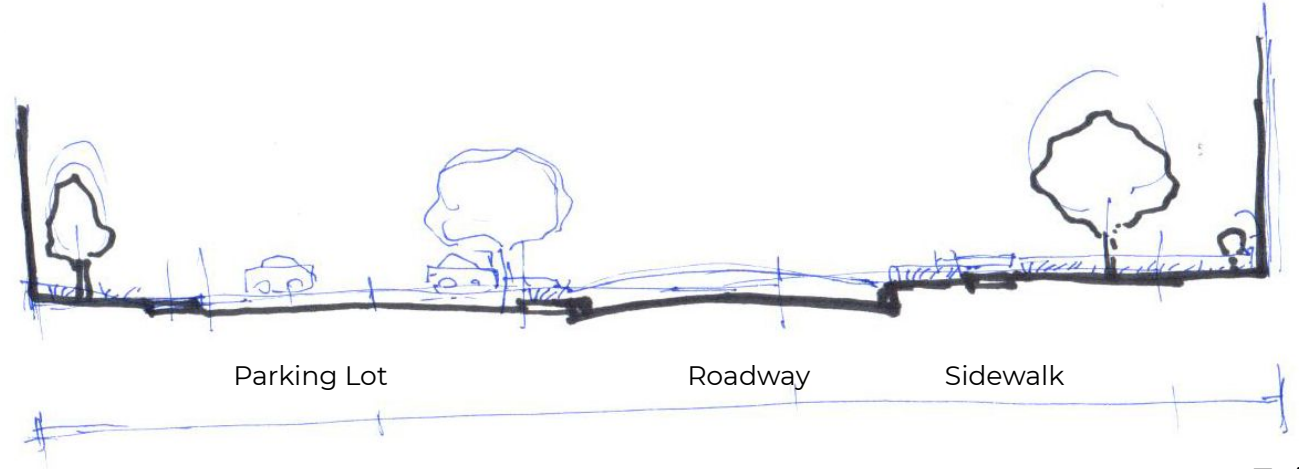
Big Bluestem
20-30x



Proposed

Multi-modal Corridors

Inside campus, like along this stretch of Milneburg, reimagine the spaces between buildings as beautiful, shaded corridors that support every form of travel.

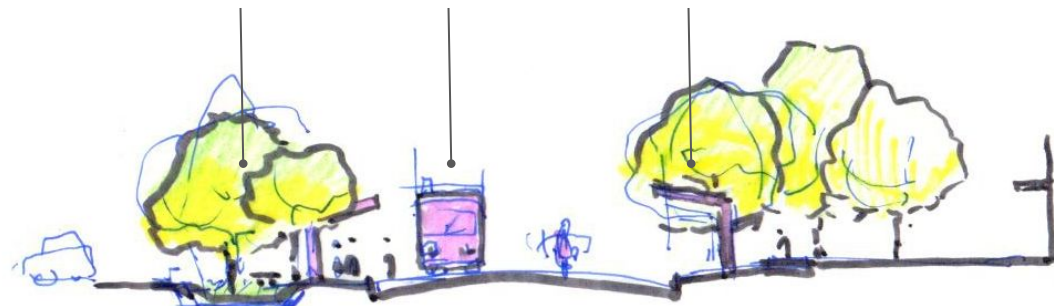


Existing

Depave and plant 50% of parking

Improve public transit

Signage, bike racks, bike sharing



Proposed



Multi-Modal Corridors

Proposed multi-modal planting strategy within Core Campus Chenier Zone. Each multi-modal site is planted with the palette in its corresponding zone.



Nuttall Oak
5-10x



Compass plant
20-30x



Goldenrod
10-20x



Coneflower
20-30x



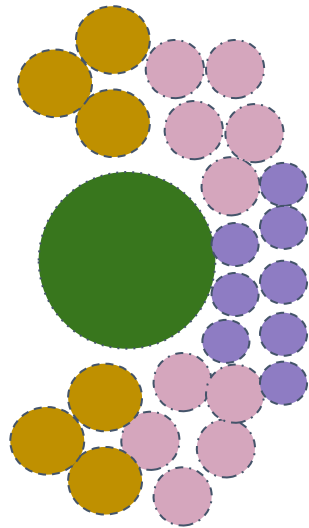
Prairie Petunia
10-20x



Sweetbay Magnolia
4-16x



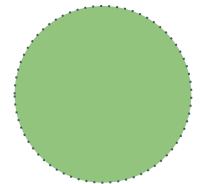
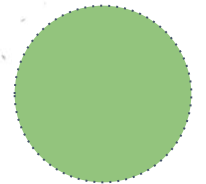
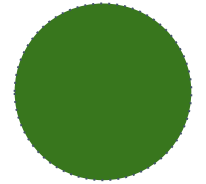
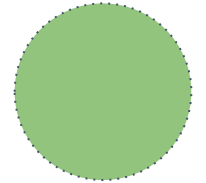
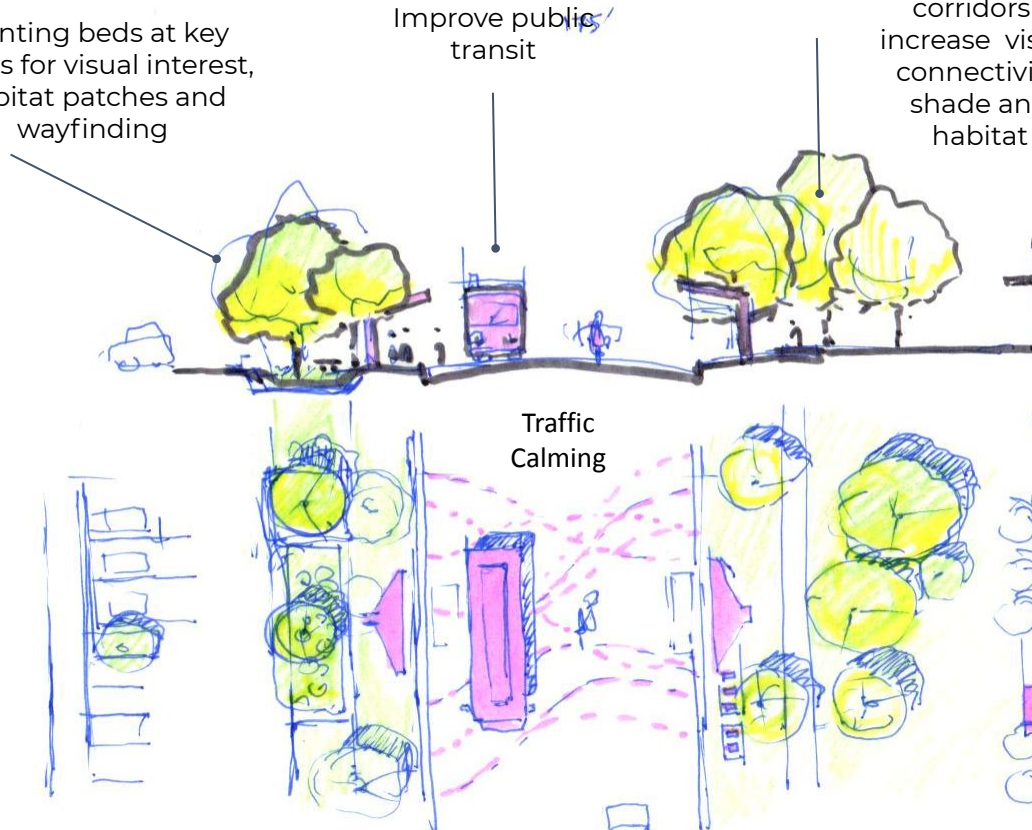
Nuttall Oak
1-4x



Planting beds at key nodes for visual interest, habitat patches and wayfinding

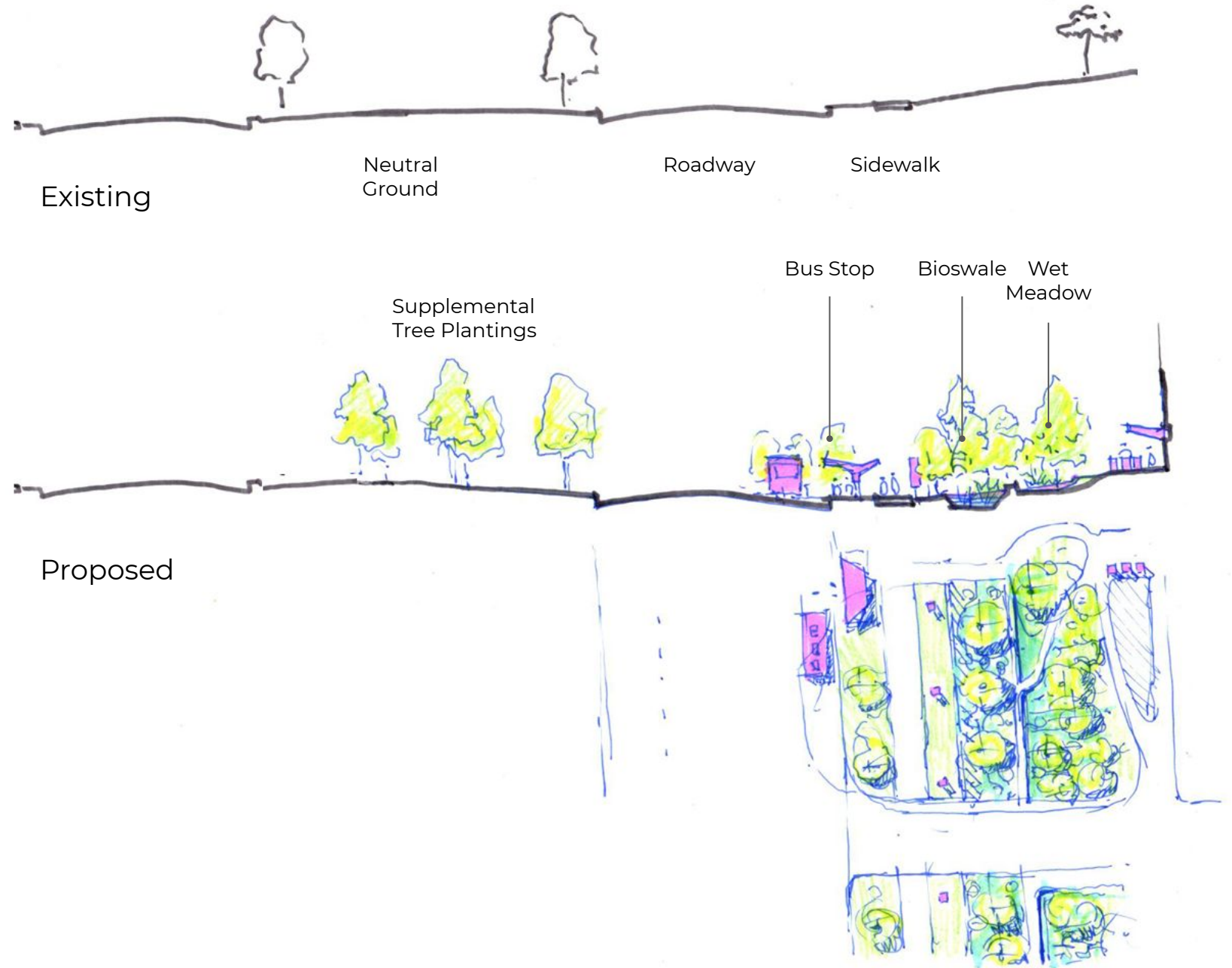
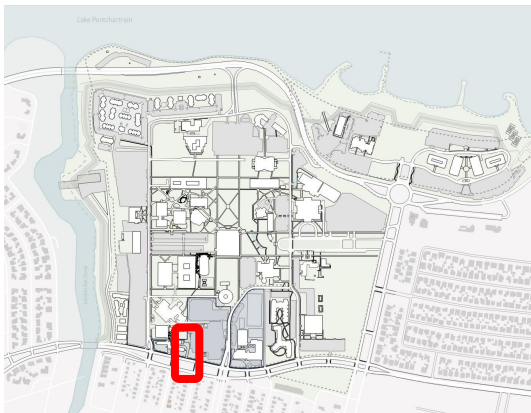
Improve public transit

Street trees line corridors - increase visual connectivity, shade and habitat



Wetland Edge

Along Leon C. Simon, establish the southern edge of the main campus as an urban wetland that catches and cleans runoff flowing away from campus.



Wetland Edge

Proposed planting plan for a wetland edge zone. The bioswales and rain gardens will need regular trash cleaning and maintenance



Iris
50-100x



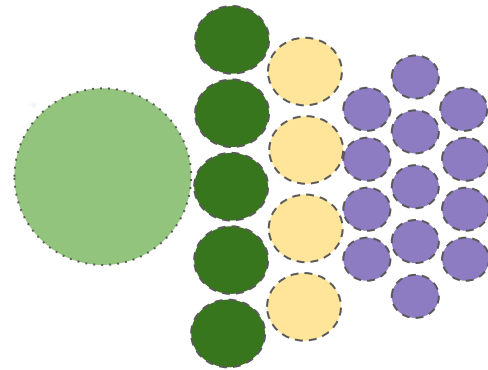
Button
Brush
20-30x



Bulltongue
Arrowhead
20-30x



Bald Cypress
7-10x



Lowest

Highest wet tolerance

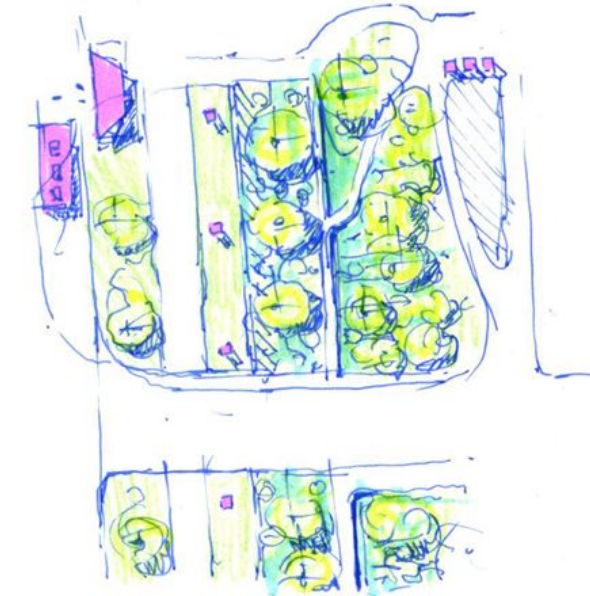


Bus Stop

Bioswale

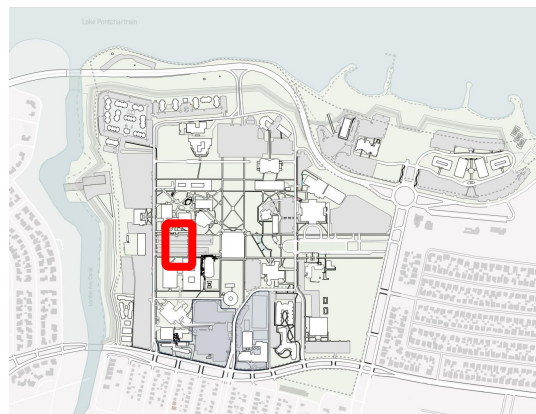
Wet
Meadow

Supplemental
Tree Plantings

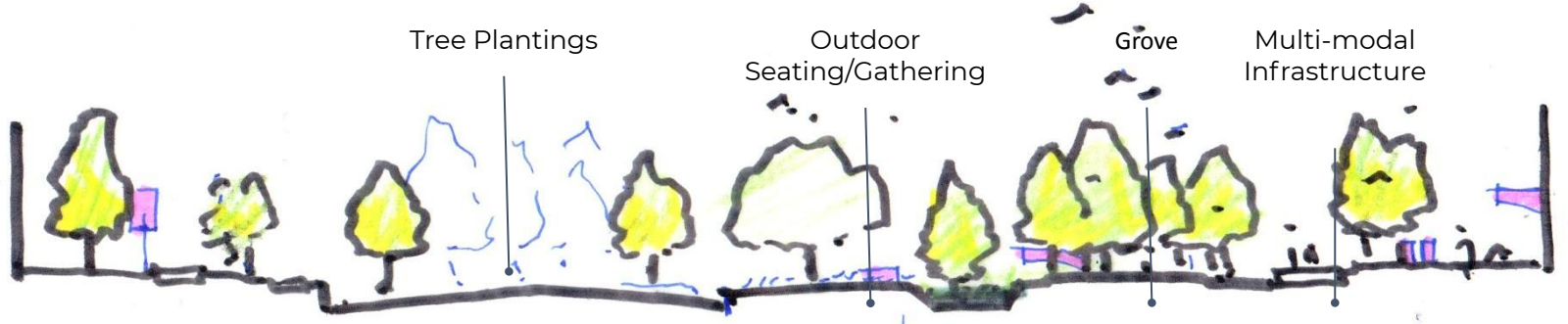


Live Oak Axis

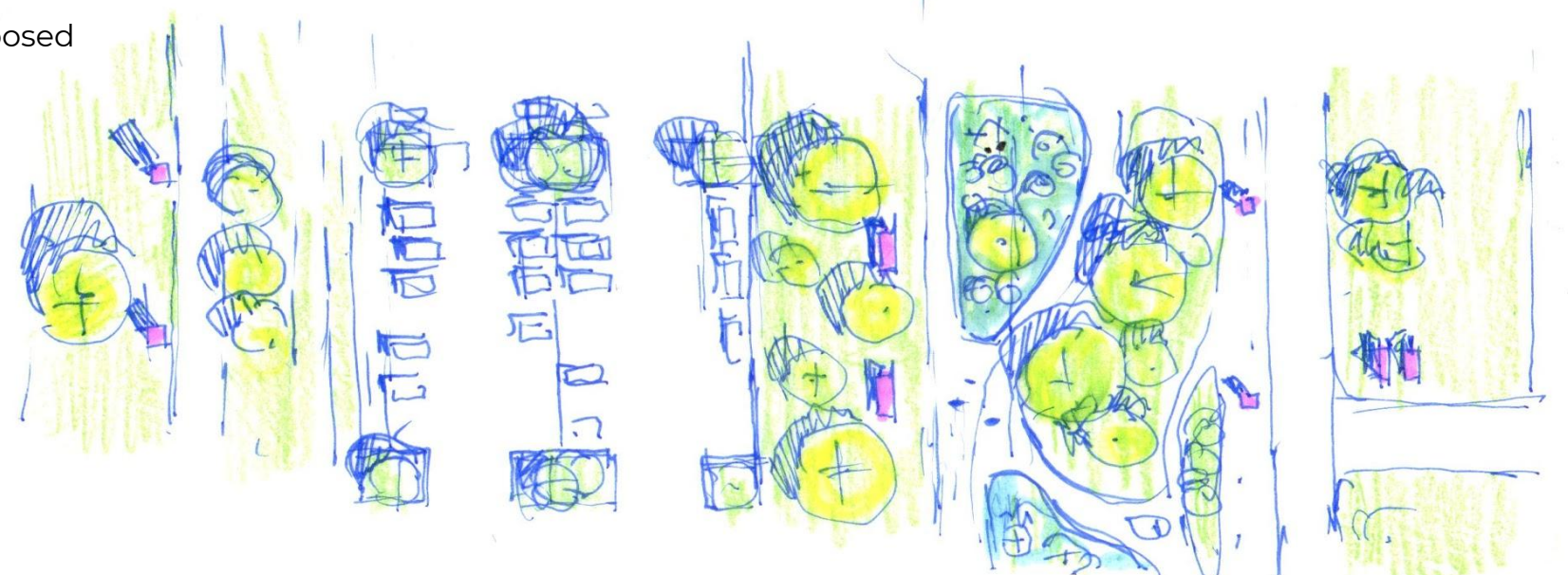
Between Founders Road and the Library, depave and plant a swath of asphalt to create a strong axis for movement, learning, and outdoor activities into and through the heart of campus.



Existing

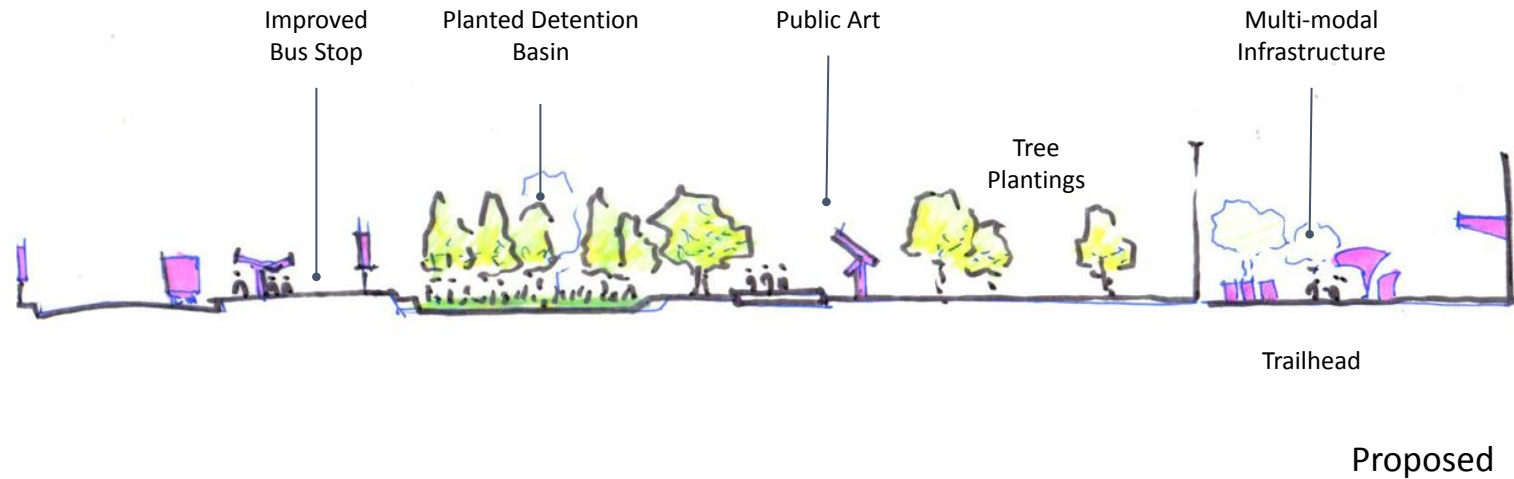
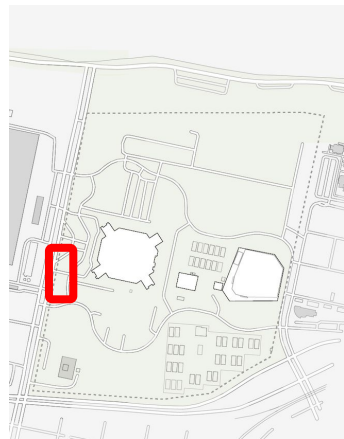
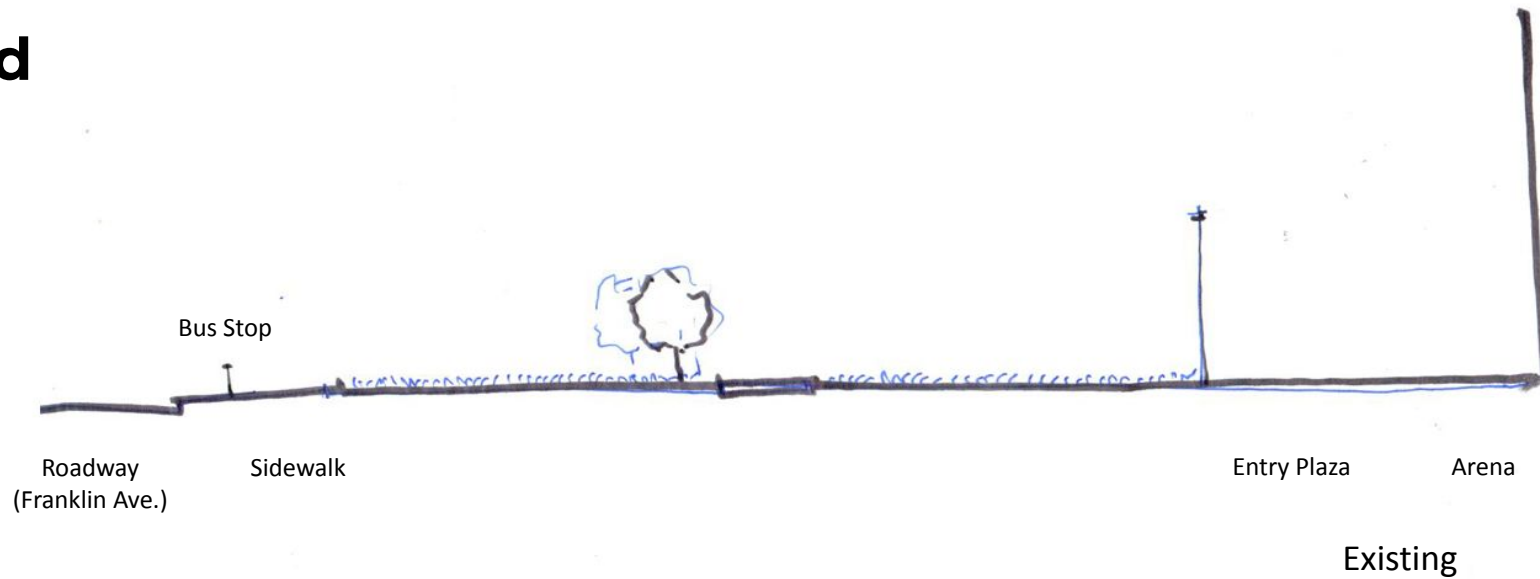


Proposed



Arena Entrance and Trailhead

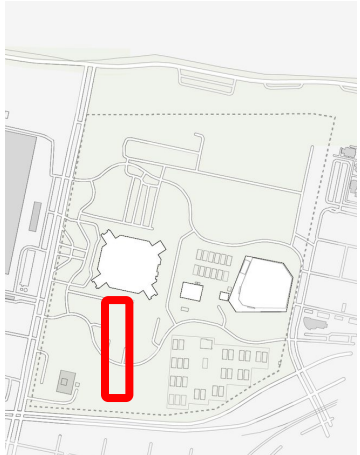
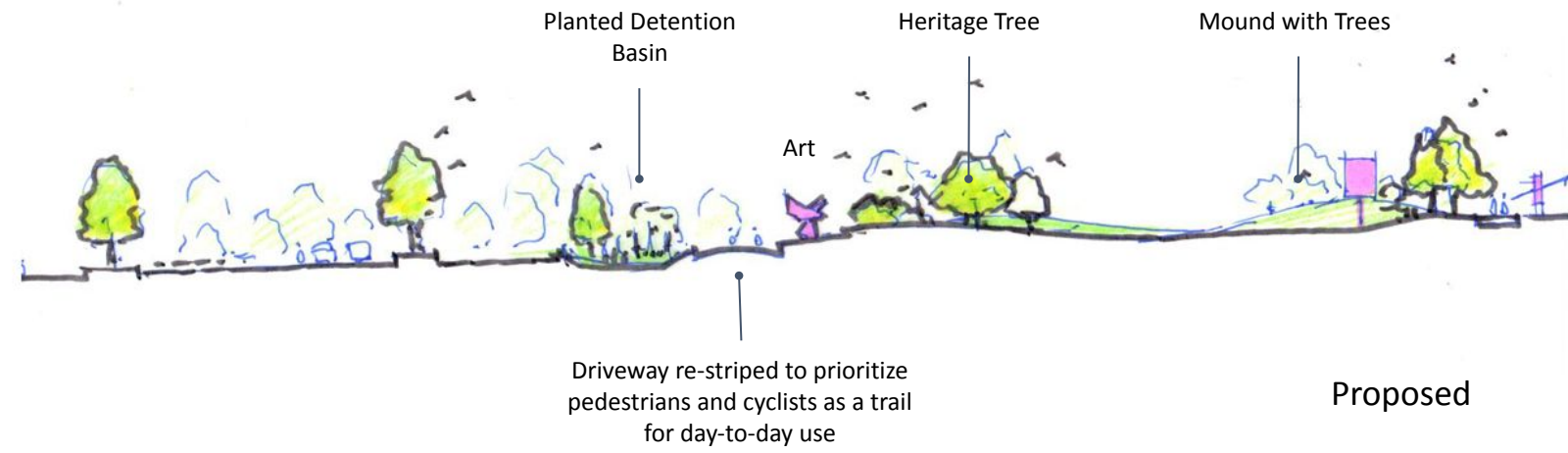
Along Franklin Ave. create an eye catching and welcoming entrance to the Lakefront Arena that matches its destination status. Opportunity to create multi-modal hub for events and connection to main campus and the rest of the city. Entry plaza also serves as trailhead for the rest of the site (next slide).



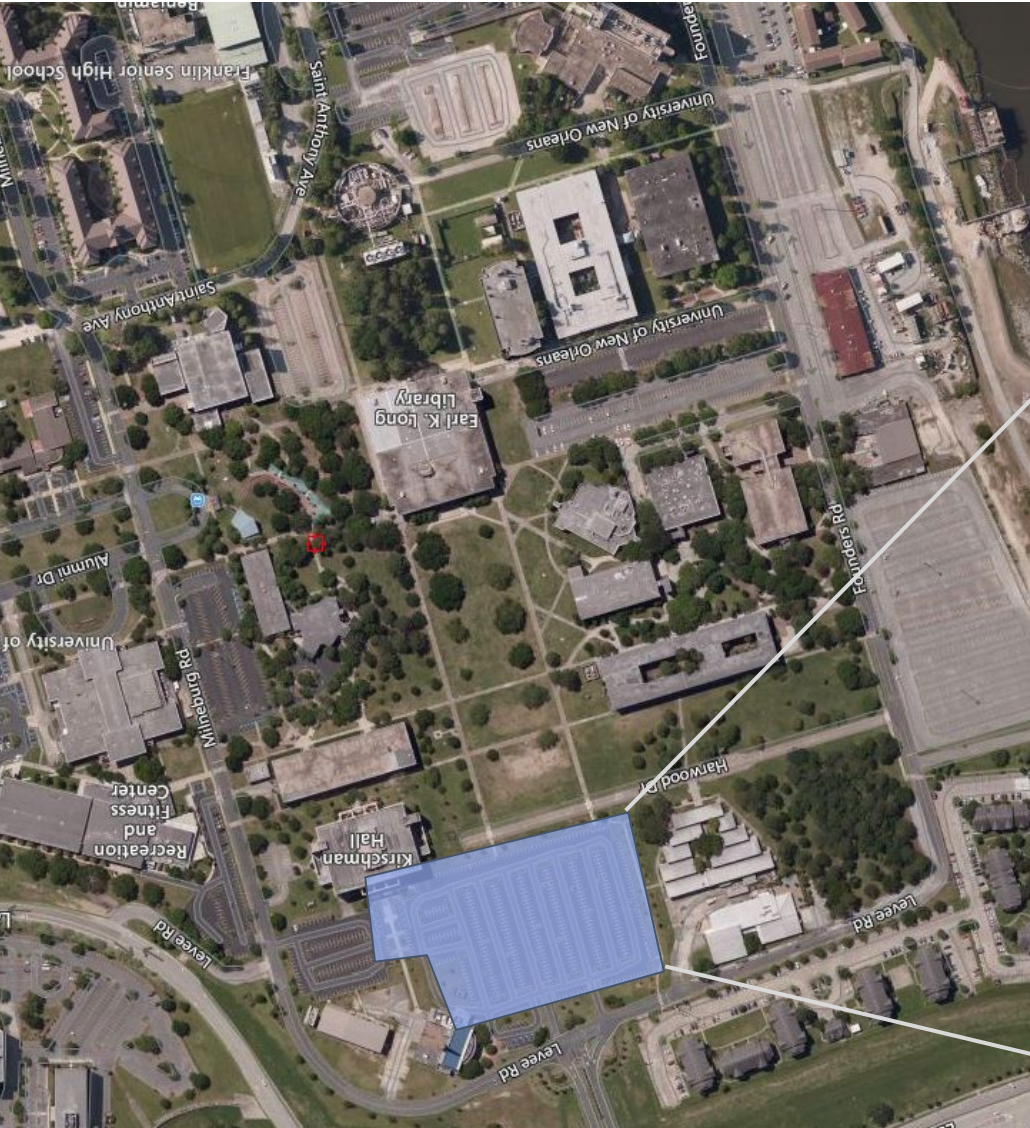
Proposed

Lakefront Arena Trail Network

Turn the expansive area around the arena into a low-maintenance park space with trails and public art. Vary topography to create lower stormwater detention areas as well as higher planted areas to create variety and interest for walkers, joggers, and cyclists exploring different habitats.



From Parking to Planting: A Case Study on Green Parking Lot Options



Lake Exit Parking Lot

475 Parking Spaces

3.81 Acres

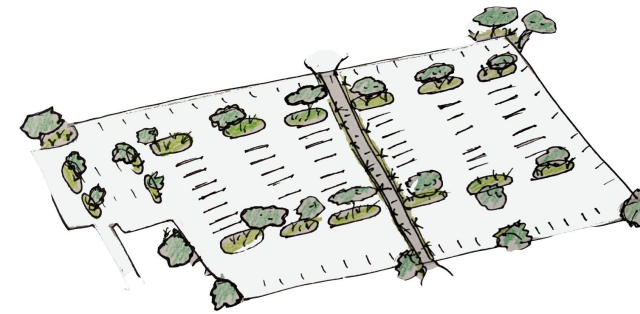
Estimated Annual Runoff: 51.24 in



Re-imagining the Lake Exit Lot

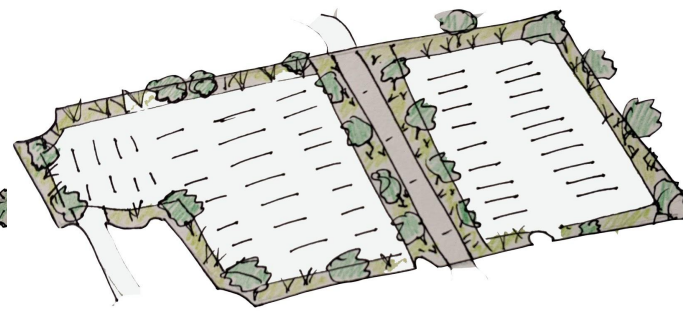
Assume: 33% reduction in parking spaces (approx 24,500 sf of parking lot assuming standard parking stall dimensions (8.5' x 18')

Estimate created using the New Orleans Green Infrastructure Stormwater Calculator, which calculates storage volume needed to meet requirement to detain the first 1.25 inches of rainfall for a specific site



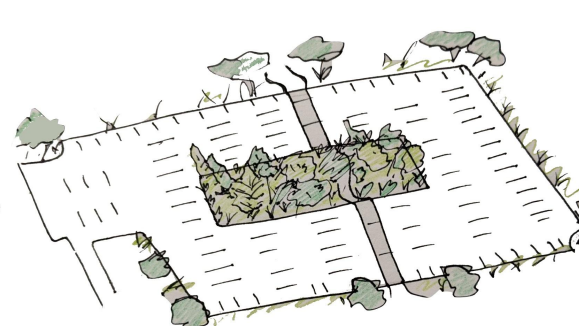
Distributed

- Reduces run-off
- Minimal disturbance to current lot - expands current landscaping



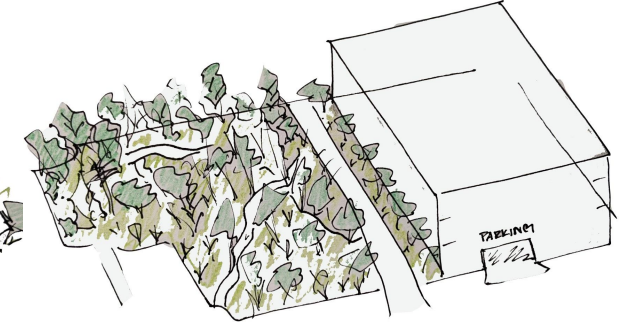
Perimeter

- More contiguous green space supports greater biodiversity
- Improved water quality



Concentrated

- Highly effective at managing and filtering stormwater
- Concentrated planting supports maneuverability for trucks in lot
- Visual amenity in parking lot



Mini-forest + Parking Structure

- Supports most biodiversity
- Amenity for UNO/community
- Possible lakeview roof space on structure

Manages Runoff

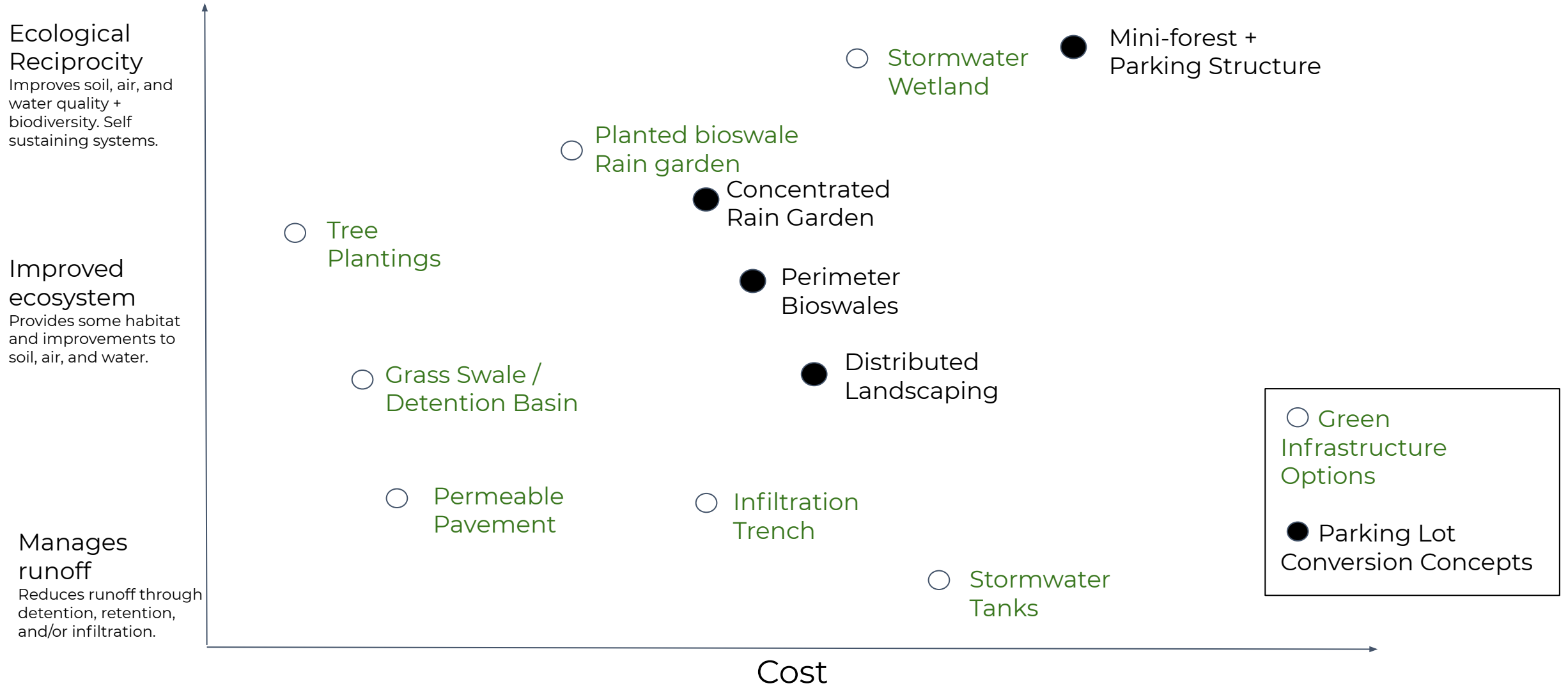
Improved Ecosystem

Ecological Reciprocity

The Comprehensive Zoning Ordinance carries specific parking lot landscaping regulations. Design patterns shown are exaggerated to emphasize differences between these approaches.

Green Parking Lot Options

Some green infrastructure measures reduce runoff by storing water, some reduce and clean runoff, and some reduce and clean runoff while also serving as habitats for other species. Here, we propose evaluating water management strategies along two axes: Cost + Impact on Water/Ecology. Some strategies perform well against stormwater management metrics, but do little to clean water or improve local/regional ecology.

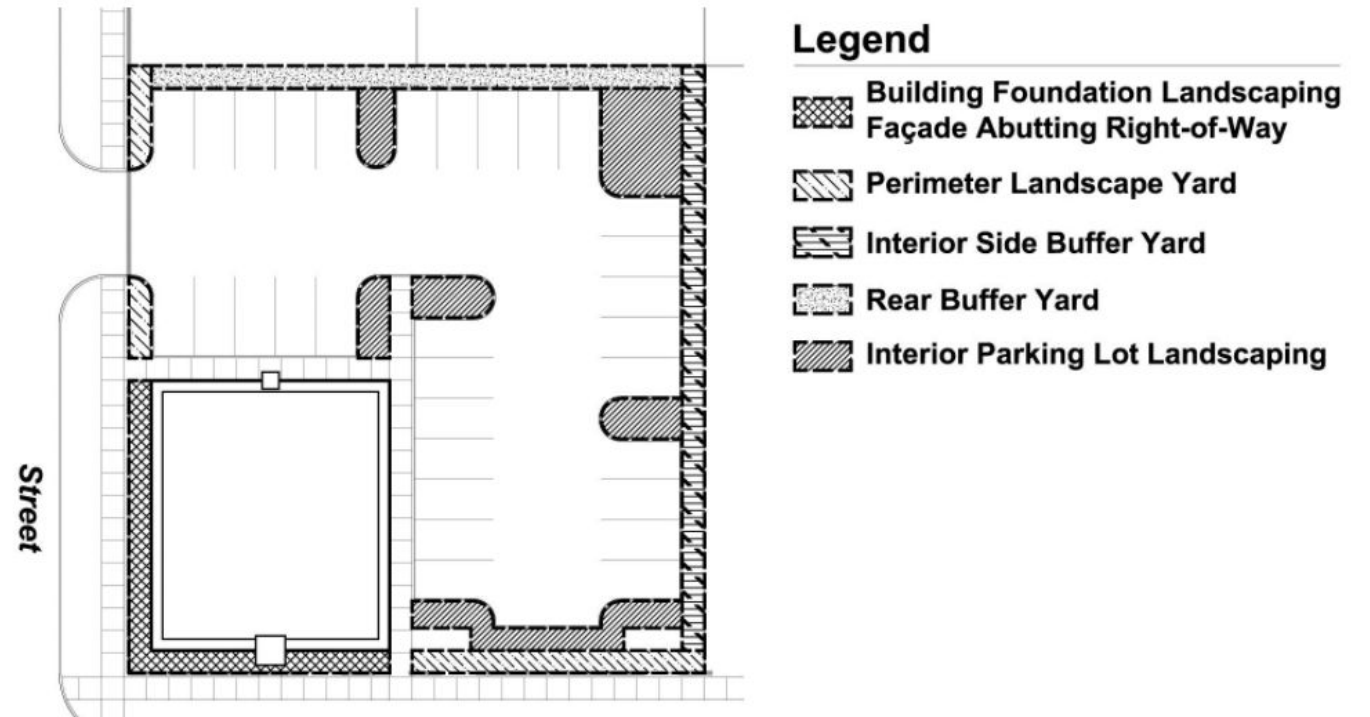


CZO Requirements - Interior Parking Lot Landscaping

for reference

- One (1) parking lot island between every ten (10) contiguous parking space
- 10% minimum total landscaped area, including parking lot islands. All rows of parking spaces must end in a island or landscaped area.
- Parking lot islands must be the same dimension as the parking stall and no less than 160 sf.
- Landscaped areas must be design to allow flow and access of stormwater. Landscaped areas must be depressed below grade, provide an underdrain to ensure drainage within 48 hours of each rain event.
- Trees, preferably with high water retention capacity, must be the primary plant materials used.
 - One shade tree for every parking lot island (two for a double row island), shrubs, minimum 75% live groundcover, perennials or ornamental grasses.

FIGURE 23-4: LANDSCAPE REQUIREMENTS



Precedents

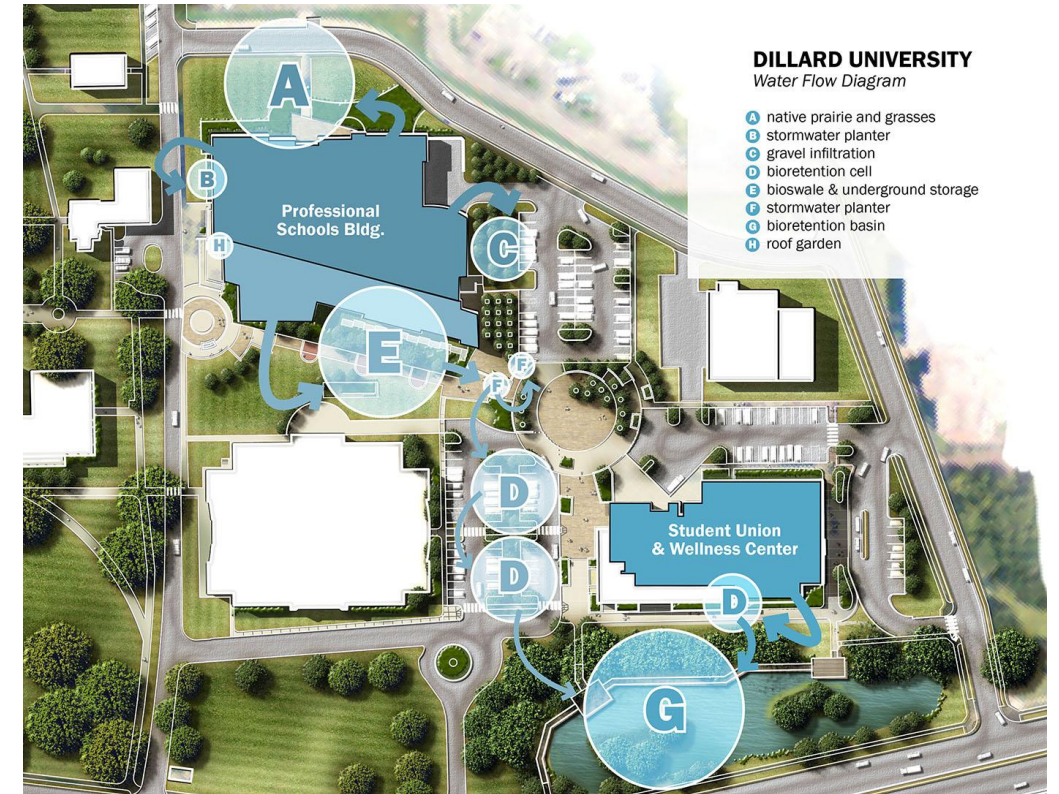
Dillard University East Campus Green Infrastructure

This project integrates bioswales, bioretention cells, native meadows, stormwater planters, a green roof, rainwater harvesting, and pervious paving to reduce runoff and alleviate localized flooding, while also improving water quality.

Learn more here:

<https://www.danabrownassociates.com/dillard-university-east-campus/>

Images: All from Dana Brown & Associates / Bottom right image from Aron Chang



Syracuse Connective Corridor

A project that strengthens the connection between campus and downtown through a combination of coordinated investments and partnerships in transportation, wayfinding, public space, public art, and public programs.

Learn more here:

<https://connectivecorridor.syr.edu/>

and

<https://www.syracuse.edu/stories/connective-corridor/>



Princeton Parking Garage

The projects include: a new parking garage with transit amenities located on a portion of the existing parking Lot 21, new soccer stadium and practice field, an athletics operations building, and a geo-exchange utility facility that will advance the University's goal of achieving net carbon neutrality by 2046.

- Removes 140 ground parking spaces from Lot 21 with new garage
- Net increase of 226 spaces with flexible overflow

Learn more here:

<https://www.dailyprincetonian.com/article/2021/01/university-receives-approval-for-new-stadium-practice-fields>



existing



2021 improvement



existing view



2021 landscape improvement

Additional Design Drawings and Sketches

PHASE ONE CONCEPTS

- strong stories
- test ideas
- make a mark



CORRIDOR CONCEPT...

FRAMEWORK

- establish ecological identities
- pilot sites
- connections and wayfinding
- entries

FACILITIES

- building upgrades
- facades and signage
- academic communities

P-P-P

- Lakefront
- academic programs + student spaces
- city/neighborhood



RIVER TO LAKE CONCEPT...

FRAMEWORK

- redefine edge, connect to city
- connections and wayfinding
- entries
- R&T park connection

FACILITIES

- mixed use

P-P-P

- Pontchartrain Conservancy, SFLPAA-East, Army Corps, etc.
- public transit, bike advocates
- econ. development agencies
- developers

CITY EDGE CONCEPT...

FRAMEWORK

- redefine edge, connect to city and to lakefront
- connections and wayfinding
- entries

FACILITIES

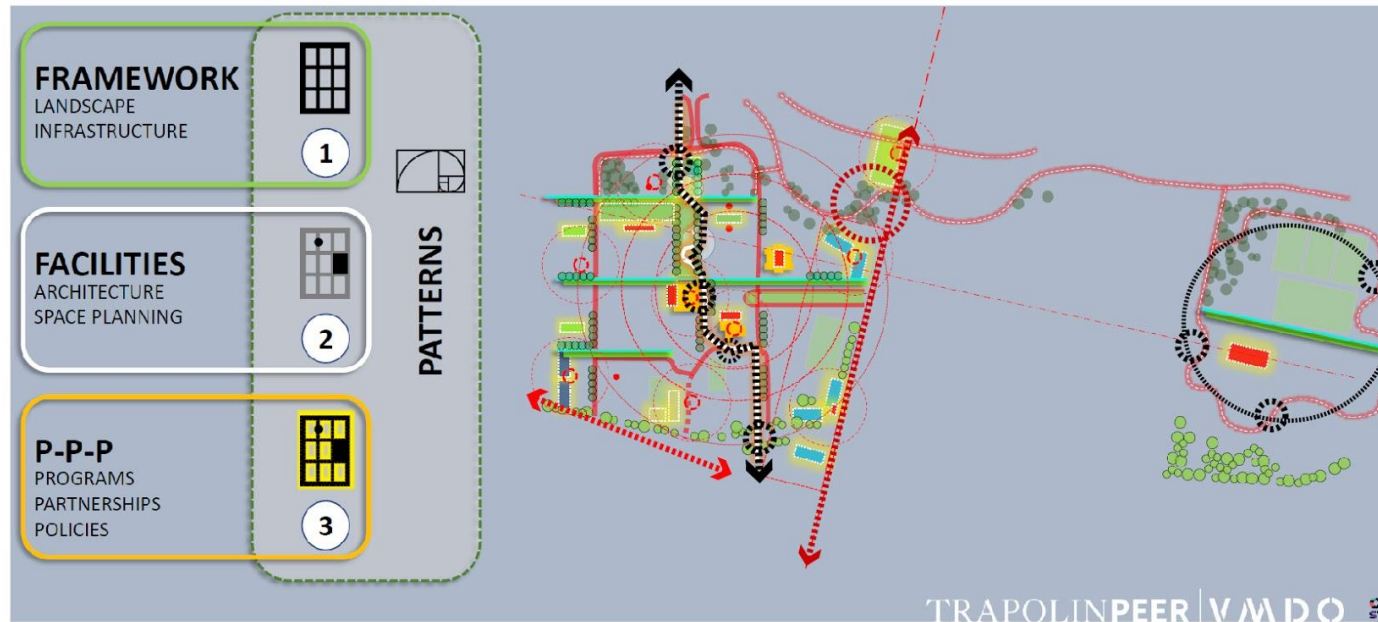
- new school
- mixed use

P-P-P

- Hynes
- BFHS
- Mosquito Control, Rodent, and Termite Control Board
- Gentilly Resilience District

February 24 Diagram of Urban Design Concepts

Big ideas that are about spaces and places, as well as partnerships and programs, and that can be used to organize priorities, investments, and public narratives.



ARENA LOOP CONCEPT...

FRAMEWORK

- redefine Arena site
- pathways and trails for daily use
- forest/meadow zones vs. parking

FACILITIES

- transit stops
- mixed use development

P-P-P

- festival schedule
- recreation stakeholders
- developers



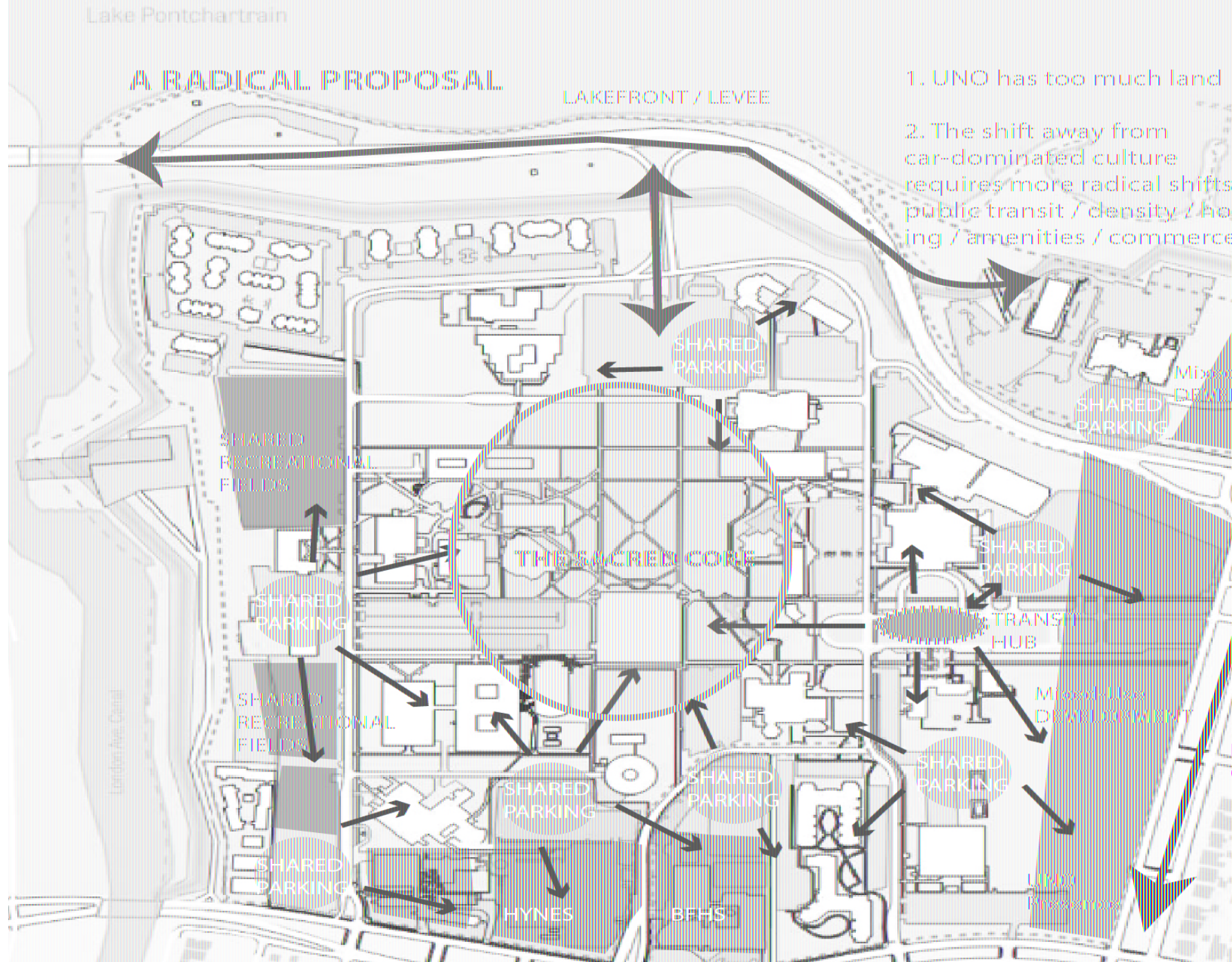
A RADICAL PROPOSAL

LAKEFRONT / LEVEE

- 1. UNO has too much land
- 2. The shift away from car-dominated culture requires more radical shifts: public transit / density / housing / amenities / commerce

January 7, Charrette Diagram focusing on strategies for addressing the need for car parking and integrating transit and mixed-use development investments to reshape what it means to travel to and from campus.

Key idea is to create smaller parking areas that serve each part of campus; building a real transit hub that serves campus, neighborhood residents, and new residents; and orienting development and transit along Elysian Fields, and the connection from the lakefront and beach to the riverfront.



Concept Schematic - "Loops and Bands"

Loop the city into campus

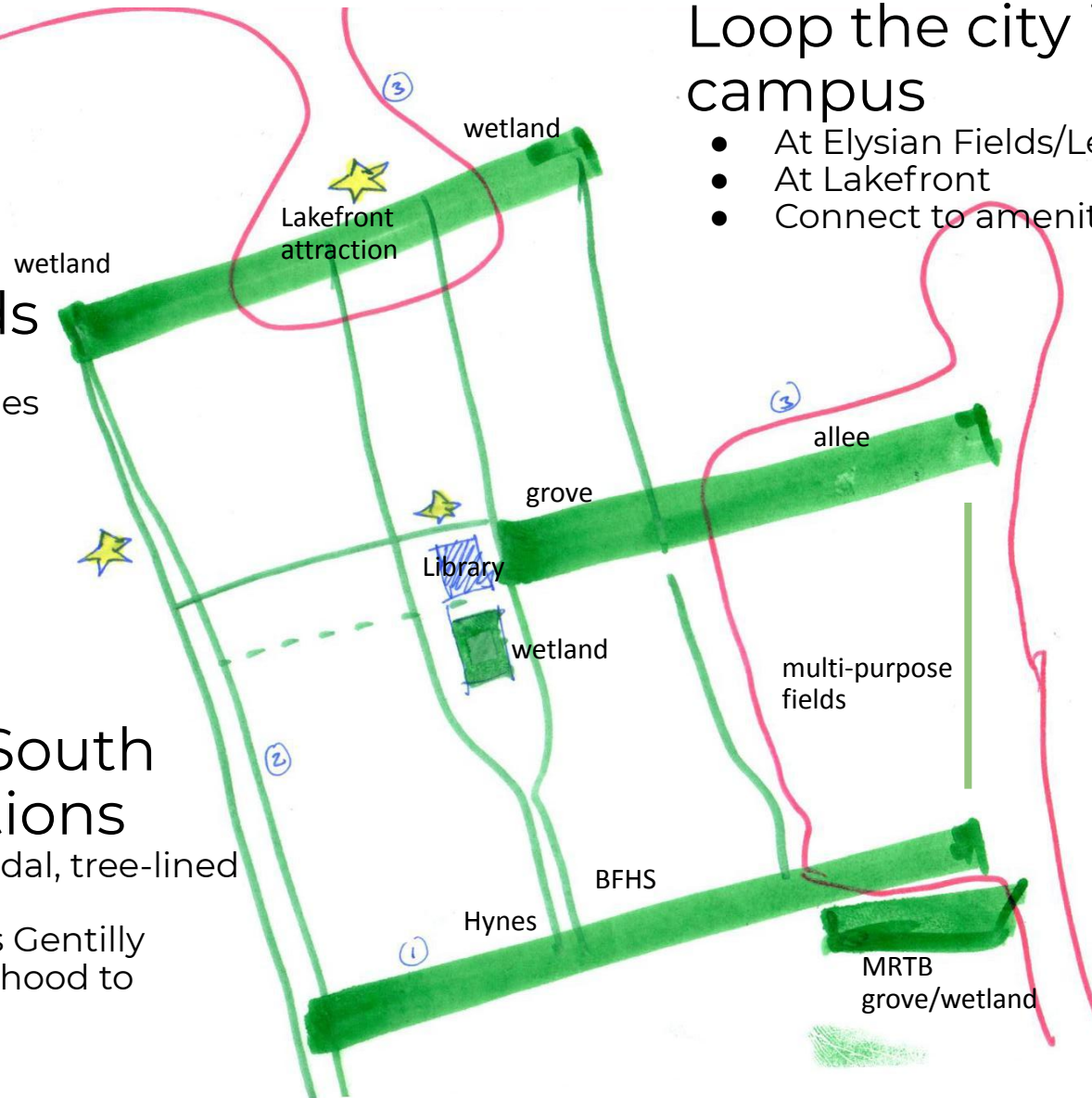
- At Elysian Fields/Leon C Simon
- At Lakefront
- Connect to amenities

East - West Bands

- broader corridors connecting key amenities
- cohesive identity established through plantings (colors and blooming periods)

North - South Connections

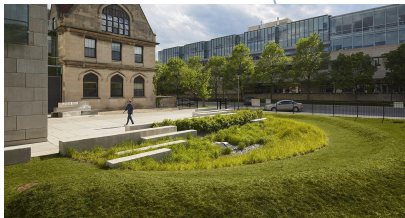
- Multi-modal, tree-lined corridors
- Connects Gentilly neighborhood to lakefront



Remaining Spaces

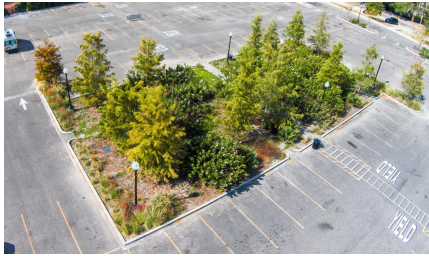
- apply sustainable water management practices as needed

Activities & Gathering



Lake Front

Inc retention / detention of "Sculpture Forest"



Turn Parking Lot into **Multi-use, Adaptable Lakefront Attraction** that also manages water

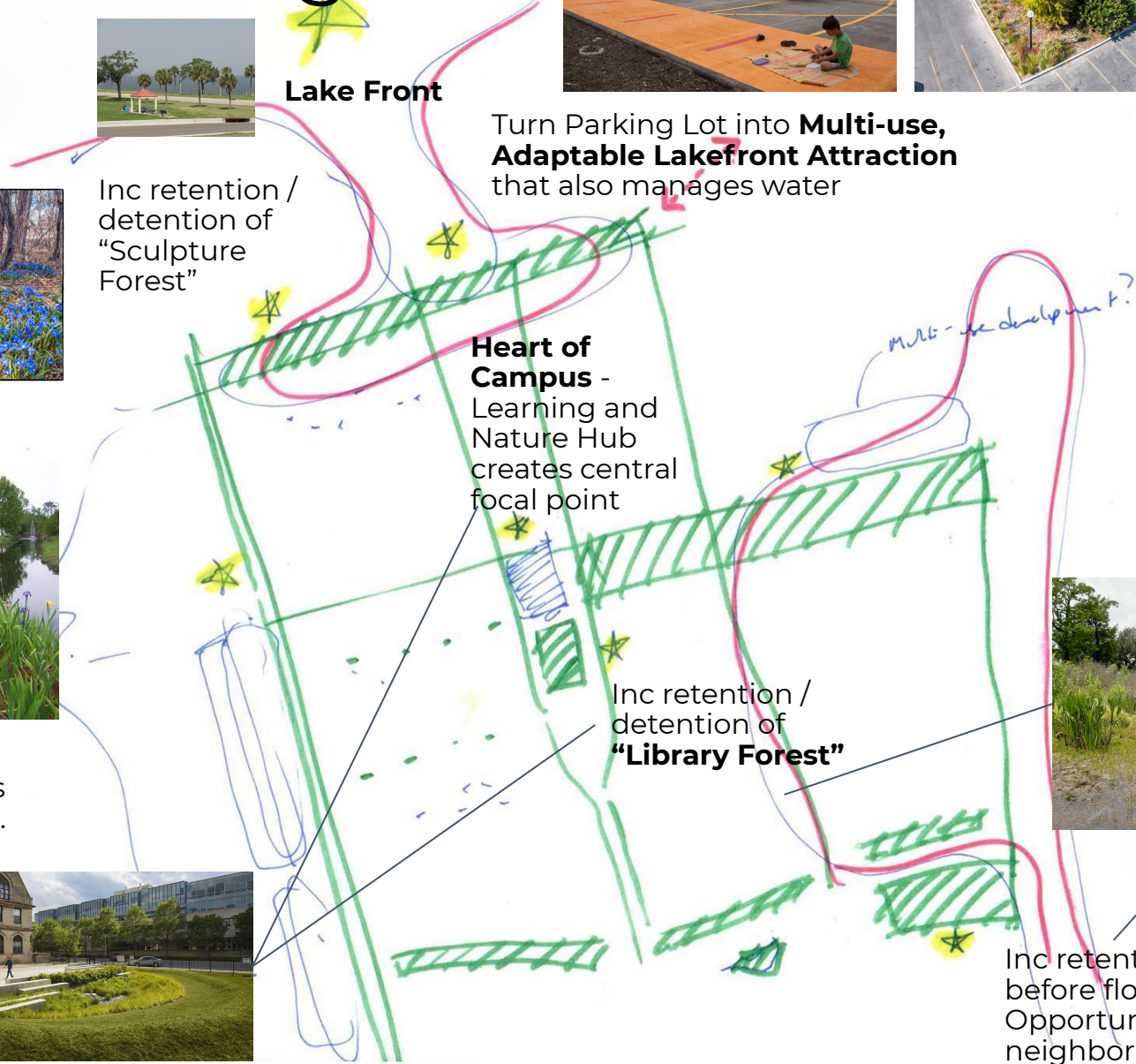


Create welcoming environment and identity with increased plantings



Inc retention / detention of "**Library Forest**"

Inc retention / detention before flowing off site. Opportunity to connect to neighborhood



Heart of Campus - Learning and Nature Hub creates central focal point

Multi-use development?

Environmental Strategies



Wetland Park
University of Lafayette



New Street Section
Multimodal, shaded
corridor



"Front Door" Plantings



Food Truck
Friday at
LinkedIn



Welcoming Allee of
Trees

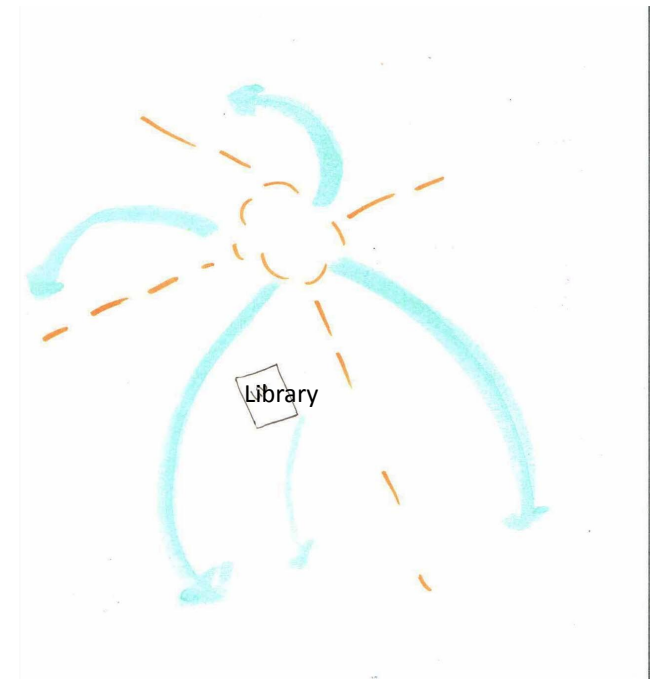
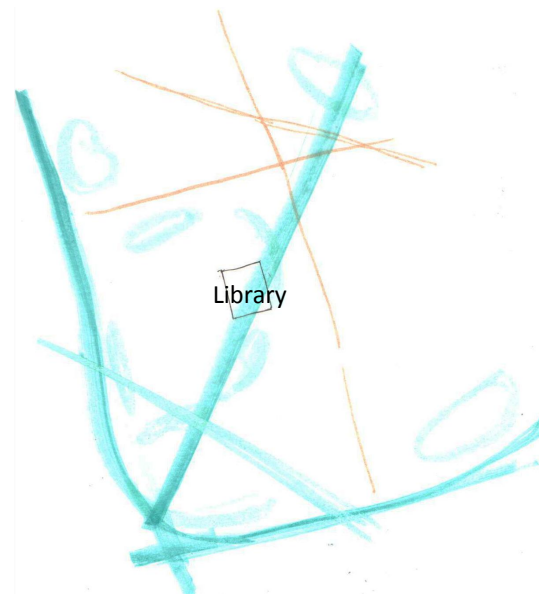
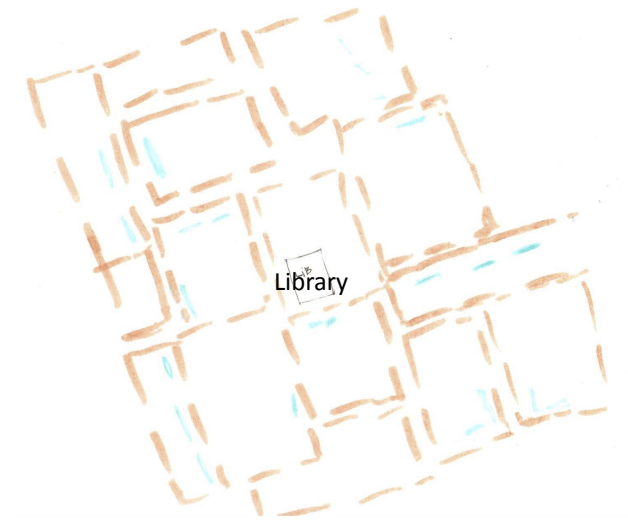
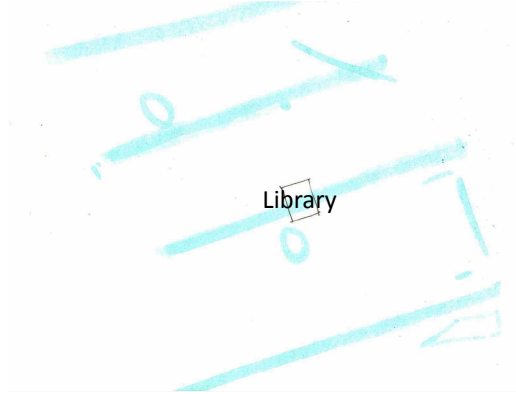


New Street Section
Multimodal, shaded
corridor

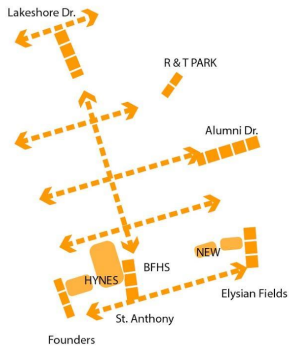


Wetland
City Park, New
Orleans

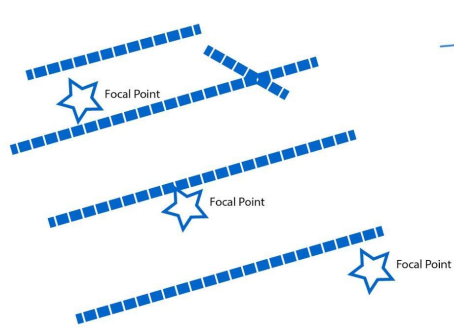
Concept Schematics - Process



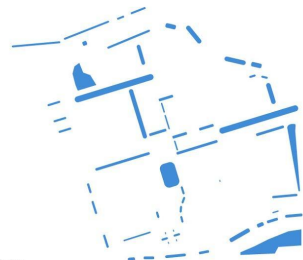
Concept Schematics - Process



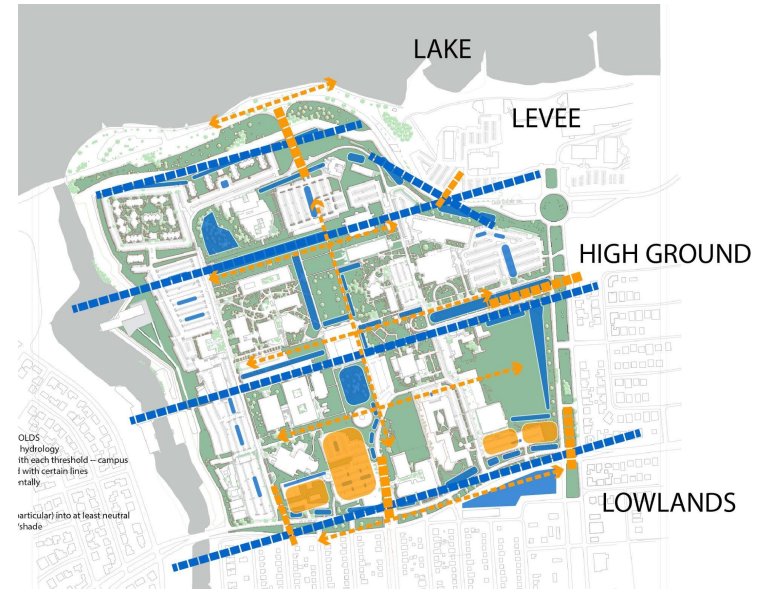
Movement and Development



Water/Plant Corridors/Thresholds



Water Features



OLDS hydrology with each threshold - campus with certain lines initially
articulate into at least neutral shade

