

The logo for the University of Florida, consisting of the letters 'UF' in white on an orange square background.

**UF**

# UF Architecture Building Renovation and DCP Collaboratory

## UF-653

Design Development  
May 4, 2023

David Wood





## Project Site & Overview



- Project was brought to the LVL Committee in August 2021 for the programming phase and in July 2022 for ASD.
- Project was brought to the LVL Committee in April 2023.
  - Motion: Provide formally documented report about impacts to and justification of removal of the 41" Magnolia.



# Site Plan



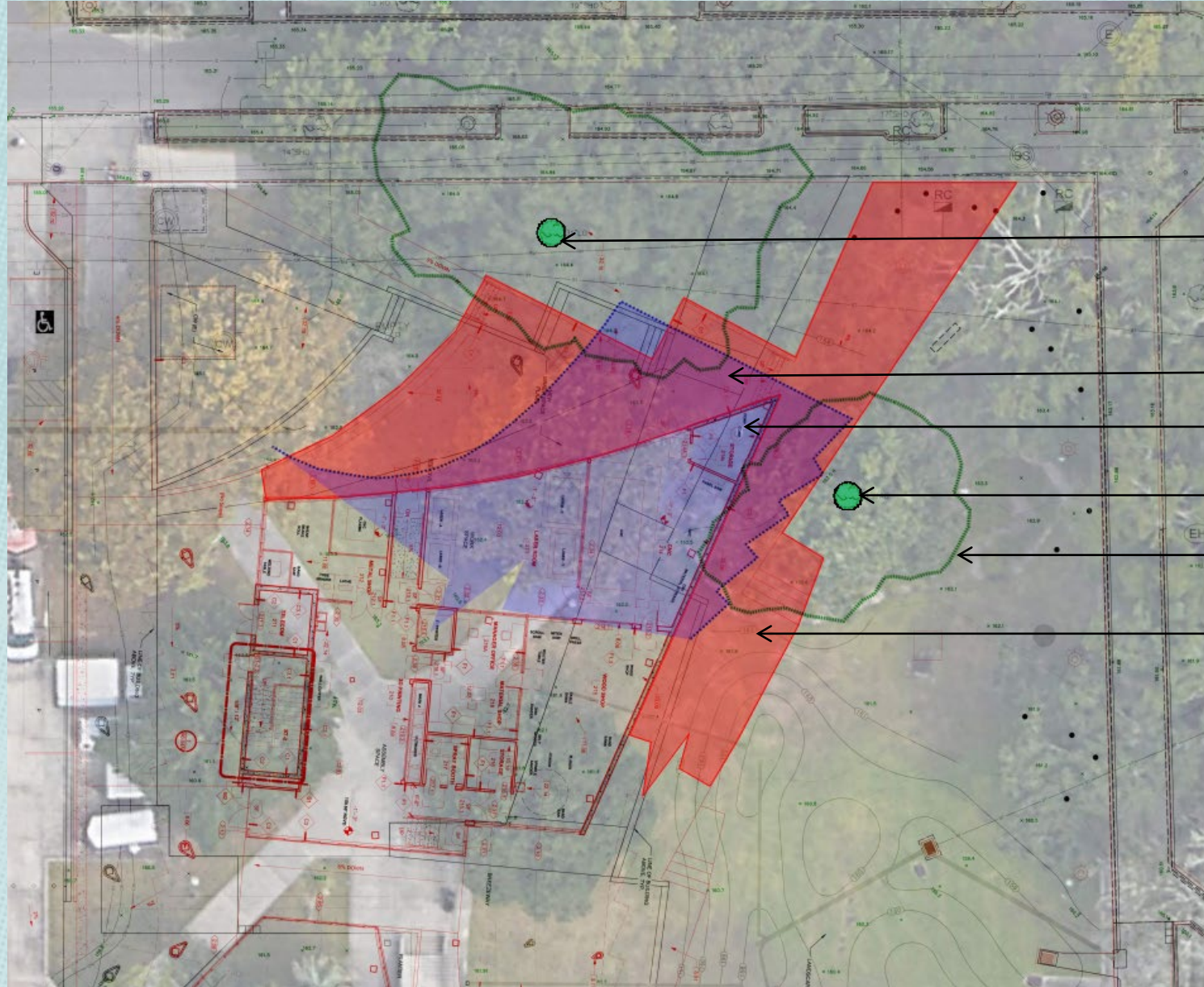


## Sustainability

- Project pursuing LEED Gold + WELL Certification
- Project proposes LID/Rain Garden for Architecture Lawn and LID planters along Murphree Way







31" Live Oak

2<sup>nd</sup> + 3<sup>rd</sup> Floor

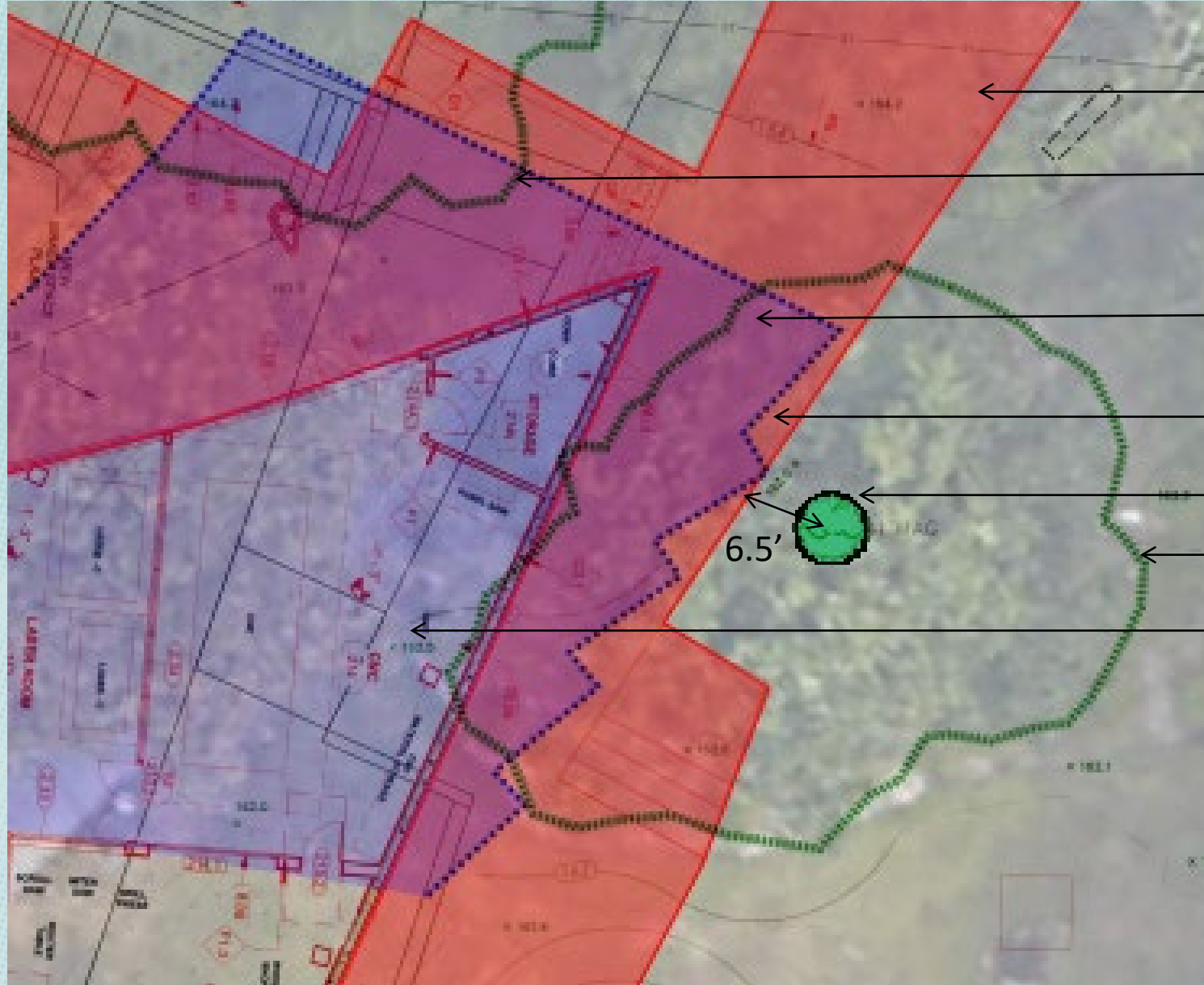
1<sup>st</sup> Floor footprint

41" Magnolia

Drip line

Proposed walks





Proposed walks

31" Live Oak

2<sup>nd</sup> + 3<sup>rd</sup> Floor

Proposed walk ~4'  
below existing grade

41" Magnolia

Drip line

1<sup>st</sup> Floor footprint

6.5'



## Tree Assessment, 41" Magnolia

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Magnolia was assessed on 4/26/23

John Burns, ISA Board Certified Master Arborist

FL-5833B

SkyFrog Tree Service





## Tree Assessment, 41" Magnolia

Inconsistent canopy with tip dieback and trunk damage from previous event





## Tree Assessment, 41" Magnolia



- (2) 24" cavities at the trunk base

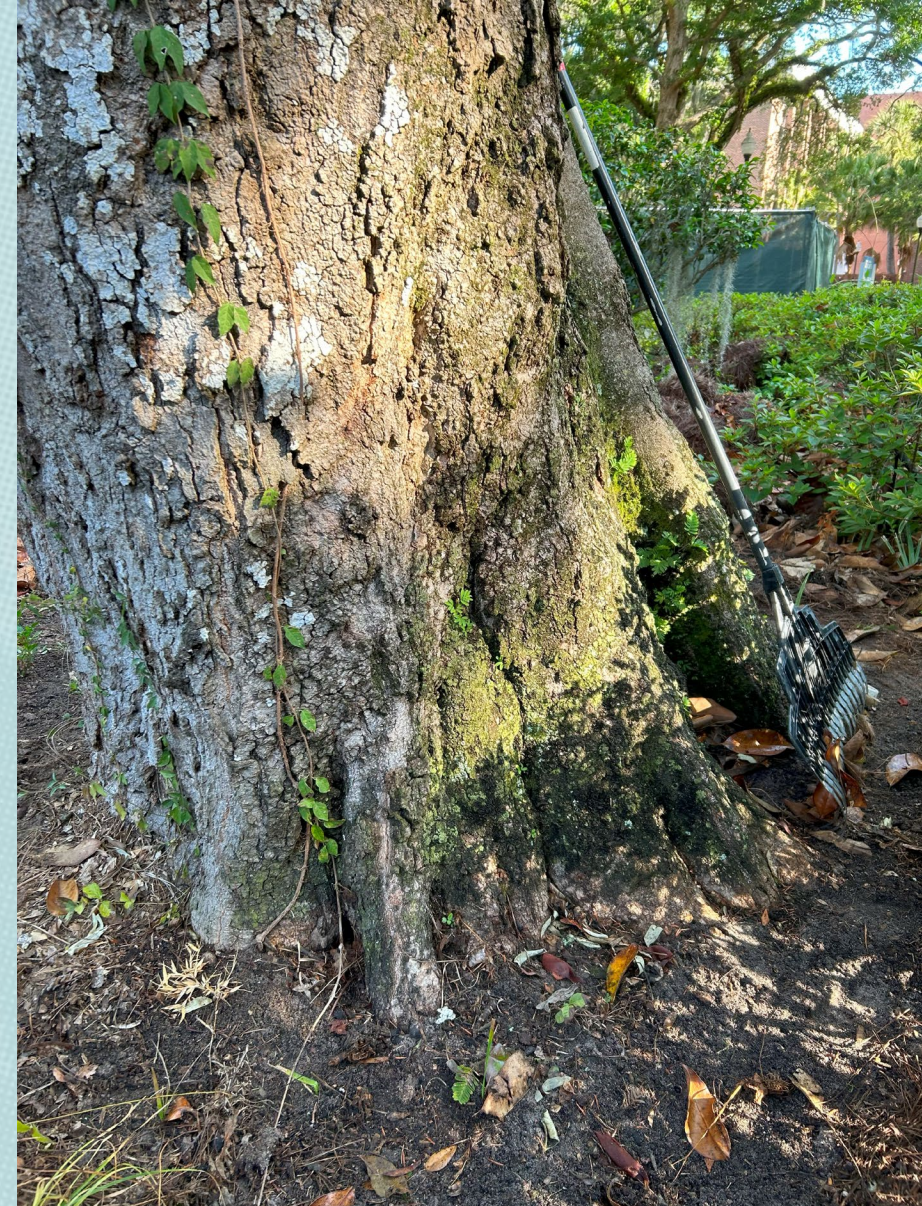




## Tree Assessment, 41" Magnolia



- Buttress rooting is visible on the east side, but not present on the west side (lean) of the tree
- Tree shifted in response to event
- No response growth is visible on the west side of the trunk
- Epicormic sprouts present from failure of original trunk



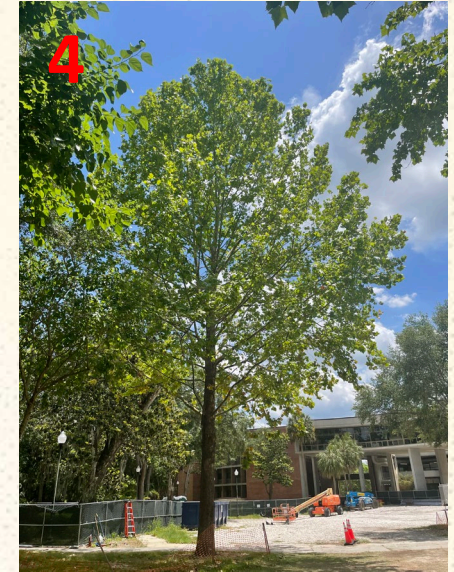
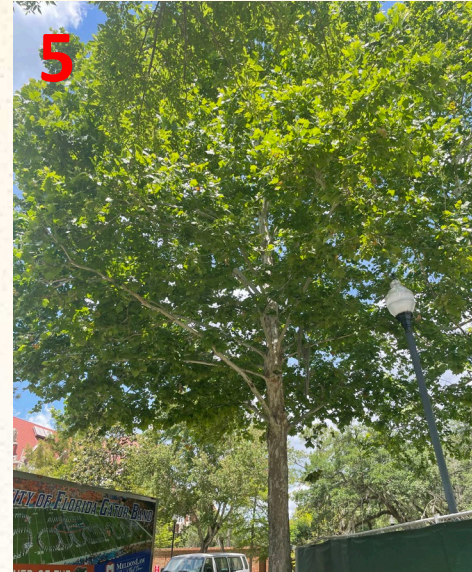






## Tree Impact Summary

| #            | Size/Species   | Required Mitigation Trees/Mitigation Fee |
|--------------|----------------|--|
| 1            | 13" Mulberry   | 2 trees                                  |
| 2            | 12" Mulberry   | 2 trees                                  |
| 3            | 8" Holly       | 2 trees                                  |
| 4            | 21" Sycamore   | \$1,000                                  |
| 5            | 22" Sycamore   | \$1,000                                  |
| 6            | 22" Ash        | \$1,000                                  |
| 7            | 22" Live Oak   | \$1,000                                  |
| 8            | 26" Magnolia   | \$2,000                                  |
| 9            | 20" Sabal Palm | 2 trees                                  |
| 10           | 18" Pindo Palm | 2 trees                                  |
| 11           | 8" Sabal Palm  | 2 trees                                  |
| 12           | 11" Sabal Palm | 2 trees                                  |
| 13           | 10" Sabal Palm | 2 trees                                  |
| 14           | 12" Sabal Palm | 2 trees                                  |
| 15           | 7" Sabal Palm  | 2 trees                                  |
| 16           | 17" Pine       | 2 trees                                  |
| 17           | 13" Pine       | 2 trees                                  |
| 18           | 5" Holly       | 2 trees                                  |
| 19           | 12" Pine       | 2 trees                                  |
| 20           | 21" Sycamore   | \$1,000                                  |
| 21           | 41" Magnolia   | \$6,000                                  |
| <b>TOTAL</b> |                | <b>28 TREES, \$13,000</b>                |



Mitigation required  
**28 Trees**

Mitigation provided  
**11 Trees**

Total mitigation deficit  
**17 trees @ \$250 each**  
**= \$4,250**

**\$4,250 (deficit)**  
**+ \$13,000 (heritage)**

**= \$17,250 total**  
**Mitigation Fee**





## Stadium Road



- Previous comments from LVL included recommendations to preserve and enhance existing canopy along Stadium Road.
- Discussion of utilizing tree mitigation funds for this project to perform an assessment of existing trees along Stadium + provide replanting strategy





**Motion Requested:**

To approve the removal the requested trees, approve the site plan, and allow the use of any native plantings for the LID areas.

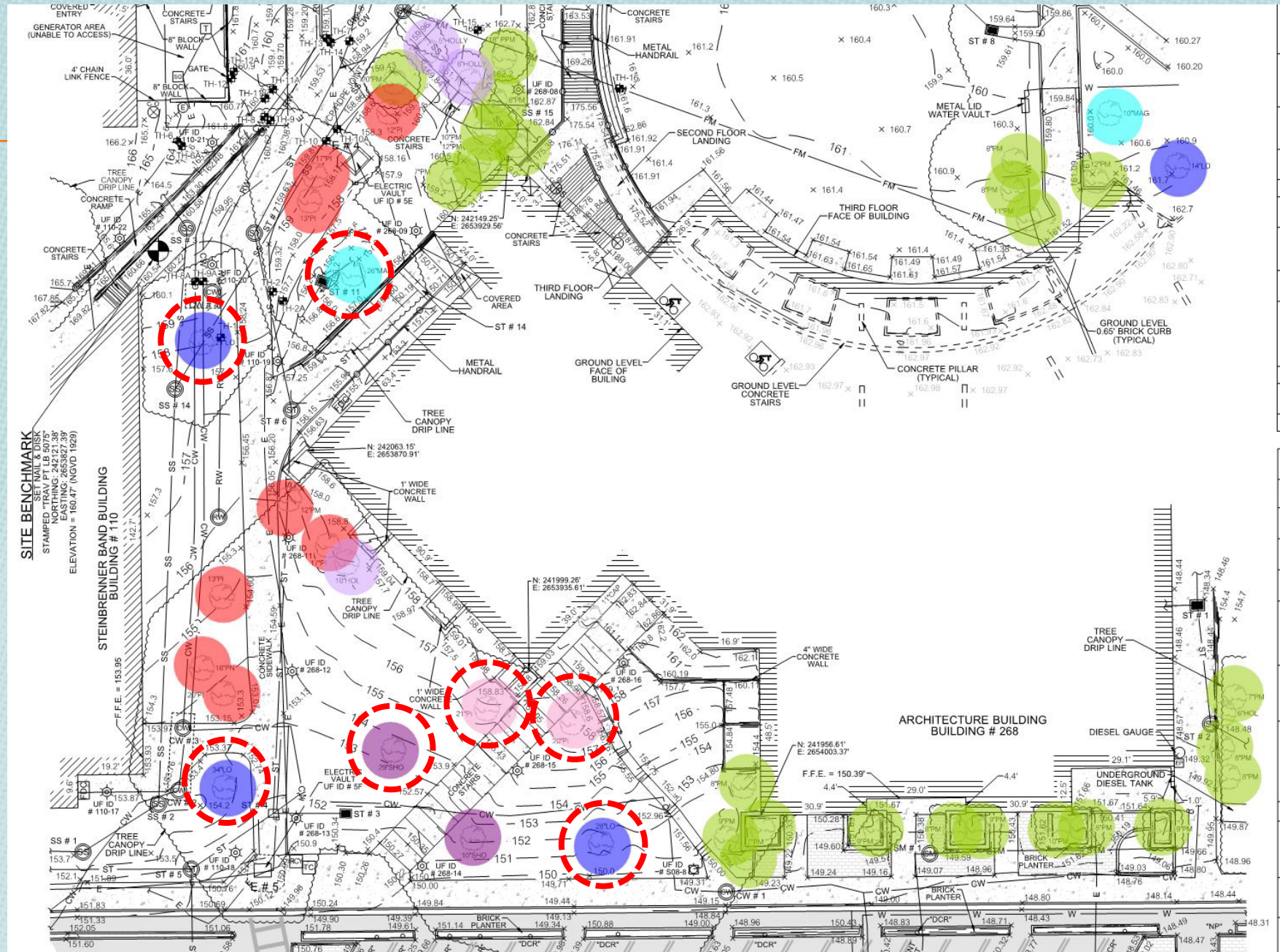
**Recommendation:**

To utilize required mitigation funds for the project to fund a canopy study along Stadium Road.



# Site Survey

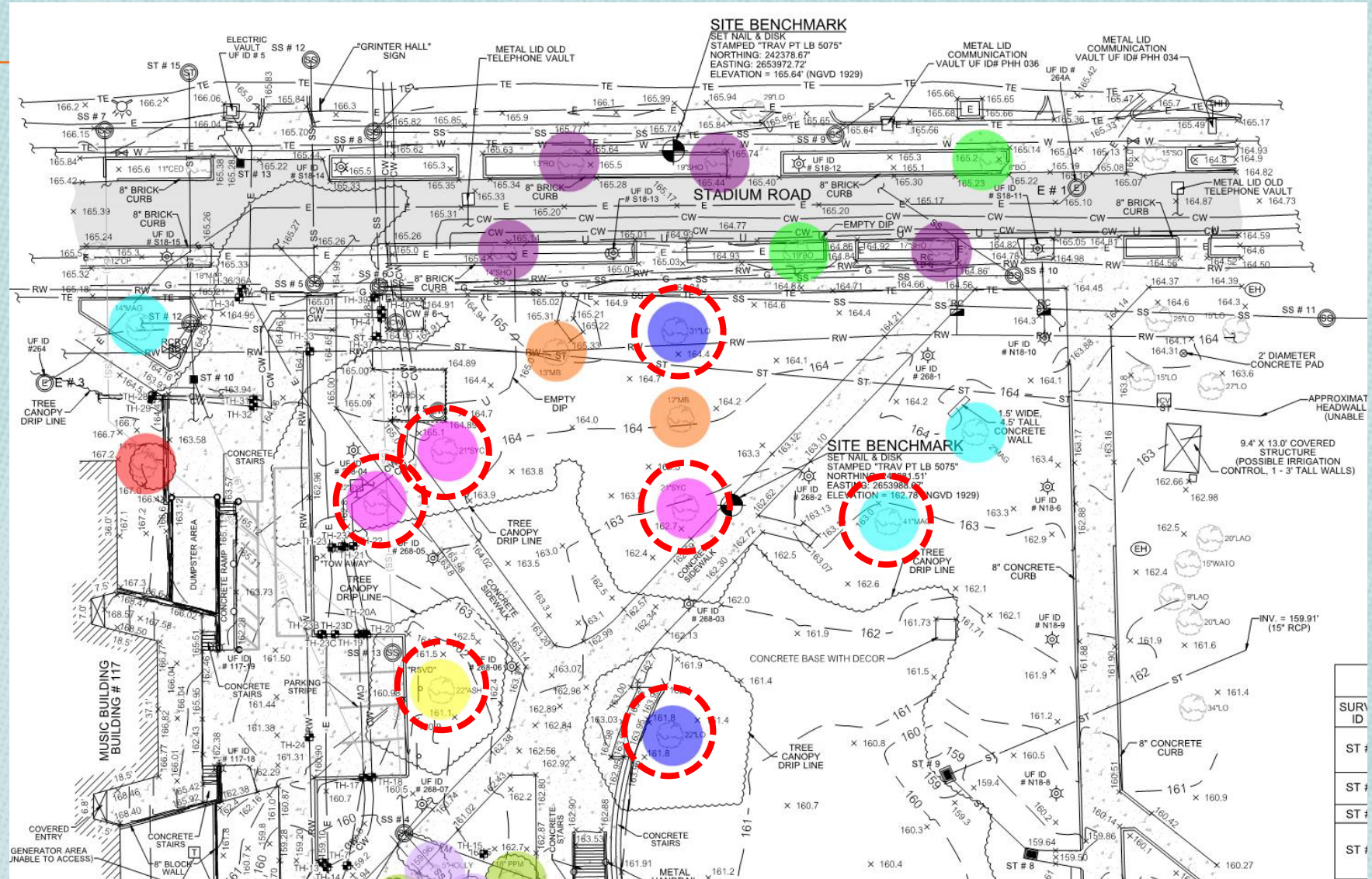
-  BLUFF OAK
-  MULBERRY
-  PALM (PINDO, SABAL)
-  PINE
-  LIVE OAK
-  SYCAMORE
-  MAGNOLIA
-  ASH
-  SHUMARD OAK
-  HOLLY
-  SPRUCE PINE
-  HERITAGE TREE





# Site Survey

-  BLUFF OAK
-  MULBERRY
-  PALM (PINDO, SABAL)
-  PINE
-  LIVE OAK
-  SYCAMORE
-  MAGNOLIA
-  ASH
-  SHUMARD OAK
-  HOLLY
-  SPRUCE PINE
-  HERITAGE TREE



| SURV ID | ST # | ST # | ST # | ST # |
|---------|------|------|------|------|
|         |      |      |      |      |
|         |      |      |      |      |
|         |      |      |      |      |
|         |      |      |      |      |



## Tree Replanting

- We were looking into relocation of the existing 22" Live Oak which was planted in Kim Tanzer's honor.
- Initially this tree was planned to be relocated. However, the relocation cost was very high and it was determined to be a better use of the project funds to remove and replant
- Removal of this tree has been accepted by Kim Tanzer and it will be replaced with a new 9"-10" Caliper Live Oak.



22" Live Oak





## PROPOSED PLANT PALETTE

### TREES



**River Birch**  
*Betula nigra*



**Seedling Live Oak**  
*Quercus virginiana*

### SHRUBS & GROUNDCOVERS



**Sand Cordgrass**  
*Spartina bakeri*



**Coontie**  
*Zamia floridana*



**Dwarf Fakahatchee Grass**  
*Tripsacum floridanum*



**Saw Palmetto**  
*Serenoa repens*



**Leather Leaf Fern**  
*Rumohra adiantiformis*



**Yaupon Holly**  
*Ilex vomitoria*



**Dune Sunflower**  
*Helianthus debilis*



**Holly Fern**  
*Cyrtomium falcatum*



## PROPOSED PLANT PALETTE

(\*NOT WITHIN THE UF LSMP)



**Firewheel\***  
*Gaillardia pulchella*



**Native Spider Lily\***  
*Hymenocallis latifolia*



**Soft Rush\***  
*Juncus effusus*



## Architectural Renderings





## Architectural Renderings





## Architectural Renderings



**BROOKS SCARPA** + UNIVERSITY of FLORIDA  
ATL ENGINEERING SOLUTIONS CHW ARCHITECTS KMF ARCHITECTS  
LINDSAY NEWMAN



## Architectural Renderings





## Landscape Plan & Compliance with the Landscape Master Plan

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- Priority Projects:
  - Inner Road outside of the limits of the project site to the south
- Campus Areas for Enhancement:
  - Arts Axis – Runs along Inner Road to the south of the project boundary
  - Grinter Hall Walkway – Extends along Murphree Way to the west of project boundary; Murphree Way will be a major N/S utility corridor with service/loading functions needing to remain; project will look for opportunities to enhance the walk and screen utilities/service areas
- Street Frontages:
  - Inner Road to the south, Stadium Road to the north
- Building Setbacks:
  - Inner Road: 30' Standard, No change to building setback proposed
  - Stadium Road: 30' Standard, DCP Collaboratory will exceed setback in order to preserve existing heritage trees (~36' proposed)
- Service Areas:
  - Proposed Service areas will be along Murphree Way
- Project is located within Precinct 1 – Core Campus



## LANDSCAPE MASTER PLAN STANDARD SITE FURNISHINGS (PRECINCT 1)



**POWER PEDESTAL**  
LEGRAND POWER  
PEDESTAL, BLACK,  
LANDSCAPE FORMS



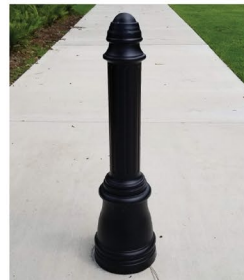
**TRASH RECEPTACLE**  
MAX-R LUMBER, TERRA  
CUSTOM, BLACK



**TABLE & CHAIRS  
(FIXED)**  
MINGLE TABLE WITH  
FIXED SEATING, 5 OR 6  
SEATS, BLACK  
LANDSCAPE FORMS



**BIKE RACK**  
8-SLOT DOUBLE SIDED  
BIKE RACK  
PEAK RACKS



**BOLLARD**  
RICHMOND REMOVABLE  
BOLLARD  
STERNBERG LIGHTING



**HANDRAILS**  
POWDERCOATED  
ALUMINUM  
JULIUS BLUM & CO.



**LIGHTPOLE**  
TRADITIONAL  
LIGHTPOLE  
PHILLIPS LUMEC  
LIGHTING



## PROPOSED SITE FURNISHINGS

*not included within the LSMP*



**SEAT WALLS**  
CAST IN PLACE  
CONCRETE



**HAMMOCK POSTS**  
GROVE BOLLARD WITH  
CHAIN LOOP, BLACK  
KEYSTONE RIDGE



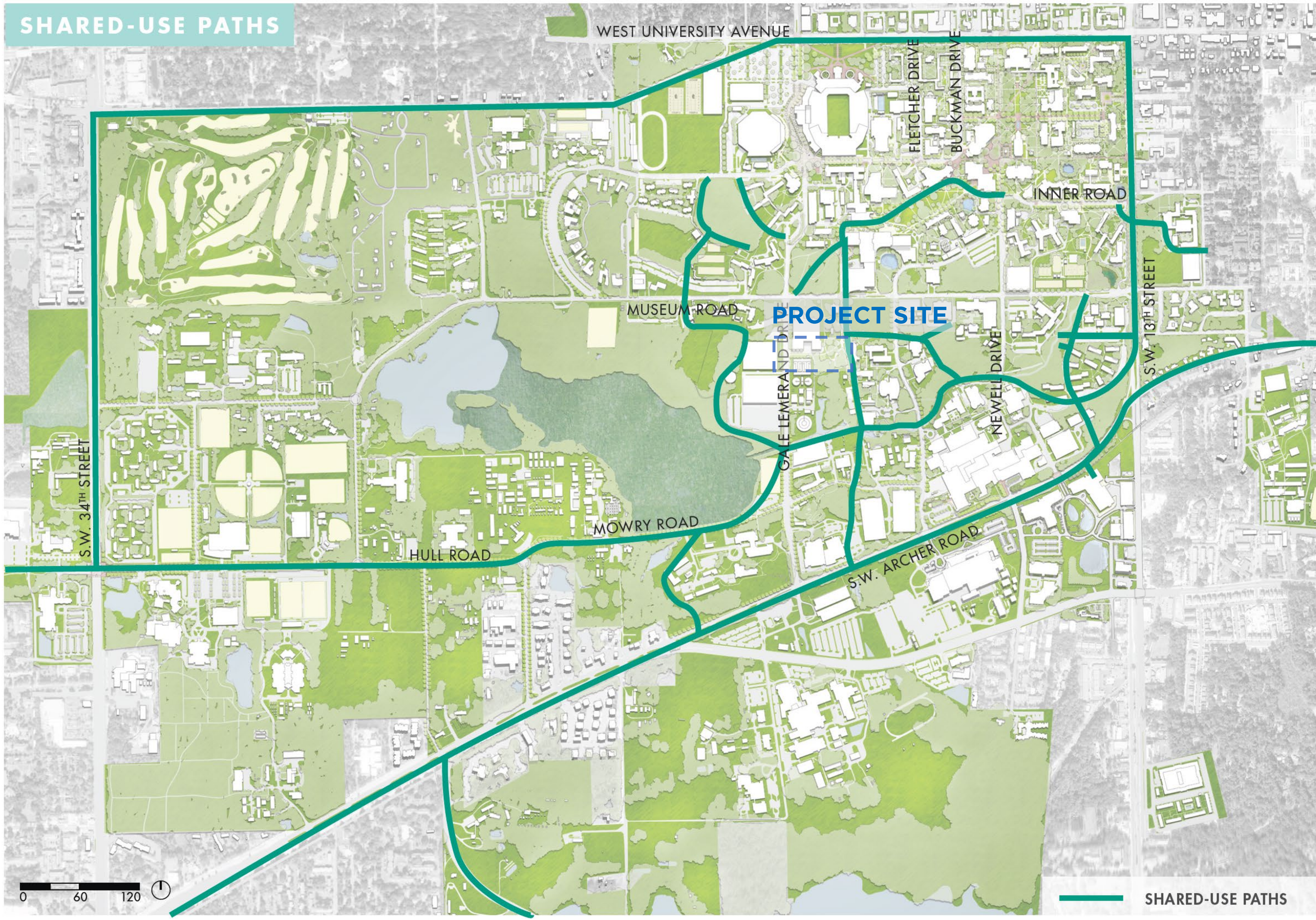
**MP06934**  
**University of Florida**  
Landscape Master Plan  
**Physics Shared Use Path**  
Project Updates re: Tree Preservation

**LVL Committee Meeting**  
May 4, 2023





# SHARED-USE PATHS



## UFLMP PHYSICS SHARED USE PATH Campus Shared Use Path Map

Gainesville, FL  
ML+H Project No. 21.38.0

04.26.2023



[www.halback.com](http://www.halback.com) | Florida Qualifier LA6667110





# UFLMP PHYSICS SHARED USE PATH Context

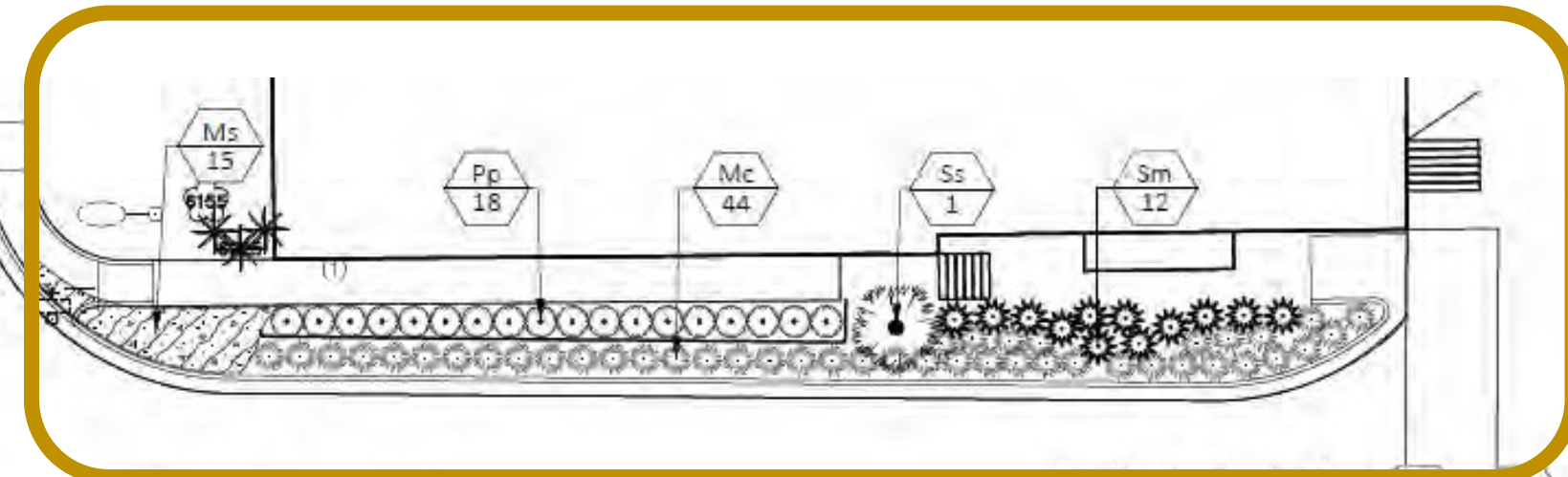
Gainesville, FL  
ML+H Project No. 21.38.0

04.26.2023



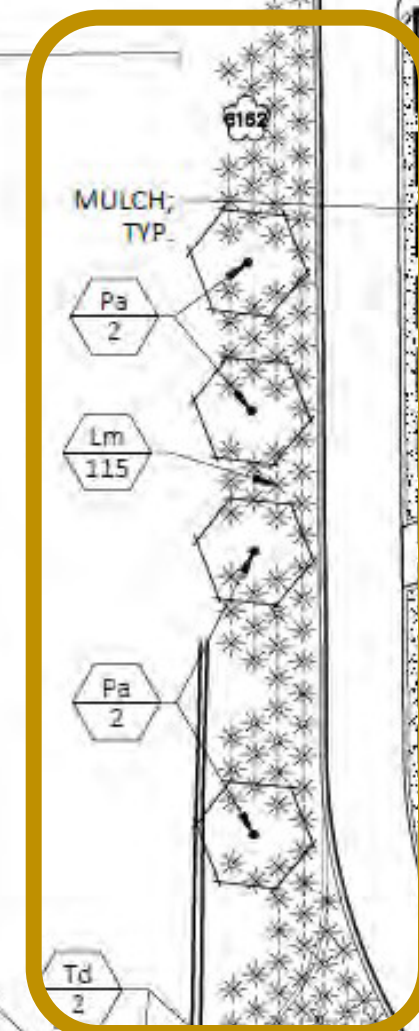
### Update

- This sidewalk is not being installed.
- Therefore, no edits to the palms in this area.



### Update

- We believe we can grade between the new sidewalk and existing trees.
- Keeping magnolias as-is.



### Update

- Three (3) palms are outside of the wall for a 12' path, so we believe we should attempt to work around them.
- In coordination with Grounds, we believe other 7 may not transplant well due to continued issues with Lethal Bronzing on campus.

### Overview

- Advances the University's vision for an "interconnected campus"
- Represents landscape master plan priority project no. 12
- ADA accessible, 12'-0", shared use, pervious pathway
- Creates a safer and more direct pedestrian connection from Garages 5 & 14 to the Physics, DSIT, and Mechanical Engineering buildings
- Enhances greenspaces along the pathway and provides screening from the Physics "back of house" and WWTP





REMOVE DUE TO PATH/WALL LAYOUT AND CONCERNS OF LETHAL BRONZING

PRESERVE IN PLACE

SHARED USE PATH  
12' WITH SEGMENTAL  
RETAINING WALL

OUTDOOR CLASSROOM

GREEN SPACE

 Marquis Latimer + Halback  
LANDSCAPE ARCHITECTURE · PLANNING



# UFLMP PHYSICS SHARED USE PATH Perspective: Main Pathway

Gainesville, FL  
ML+H Project No. 21.38.0

04.26.2023

 Marquis Latimer + Halback  
LANDSCAPE ARCHITECTURE · PLANNING  
[www.halback.com](http://www.halback.com) | Florida Qualifier LA6667110



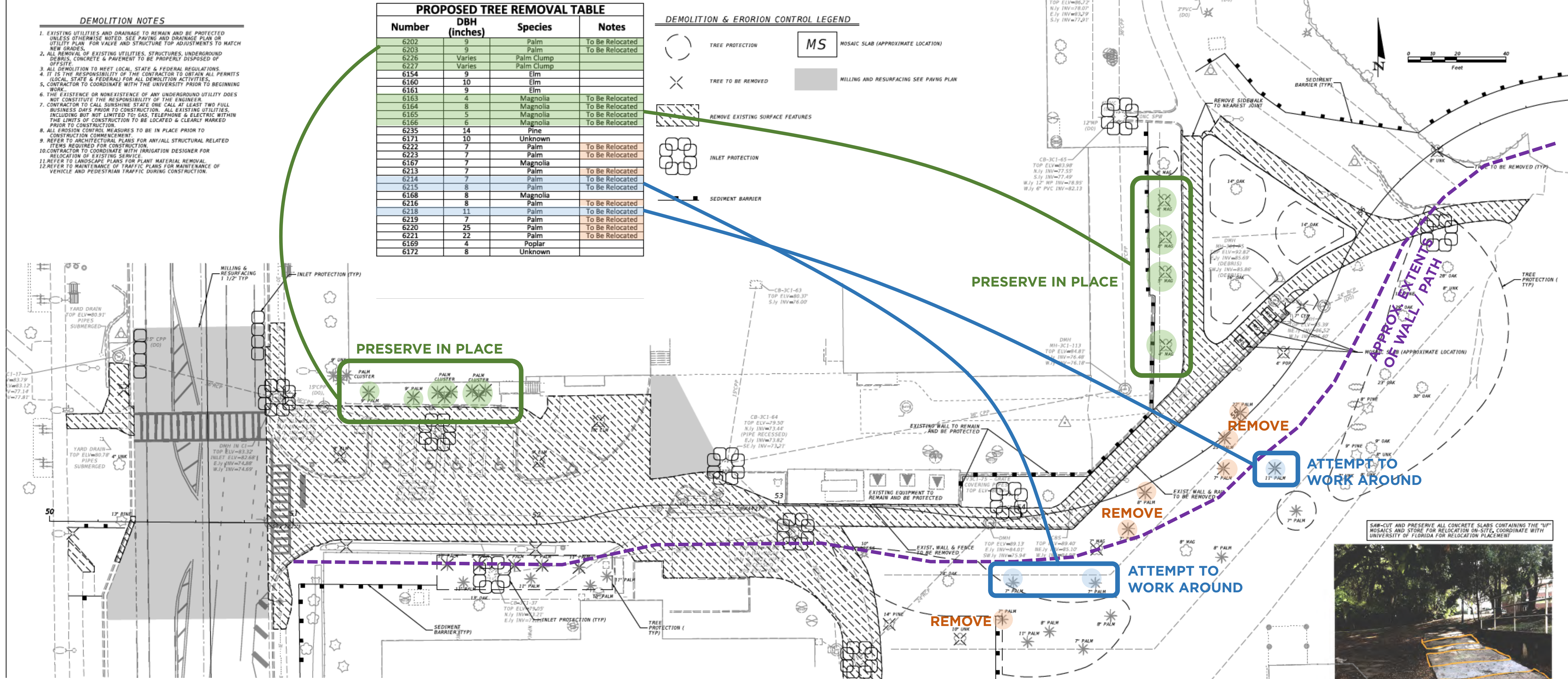
**DEMOLITION NOTES**

- EXISTING UTILITIES AND DRAINAGE TO REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED. SEE PAVING AND DRAINAGE PLAN OR UTILITY PLAN FOR VALVE AND STRUCTURE TOP ADJUSTMENTS TO MATCH NEW GRADES.
- ALL REMOVAL OF EXISTING UTILITIES, STRUCTURES, UNDERGROUND DEBRIS, CONCRETE & PAVEMENT TO BE PROPERLY DISPOSED OF OFF-SITE.
- ALL DEMOLITION TO MEET LOCAL, STATE & FEDERAL REGULATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS (LOCAL, STATE & FEDERAL) FOR ALL DEMOLITION ACTIVITIES.
- CONTRACTOR TO COORDINATE WITH THE UNIVERSITY PRIOR TO BEGINNING WORK.
- THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITY DOES NOT CONSTITUTE THE RESPONSIBILITY OF THE ENGINEER.
- CONTRACTOR TO CALL SUNSHINE STATE ONE CALL AT LEAST TWO FULL BUSINESS DAYS PRIOR TO CONSTRUCTION. ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO GAS, TELEPHONE & ELECTRIC WITHIN THE LIMITS OF CONSTRUCTION TO BE LOCATED & CLEARLY MARKED PRIOR TO CONSTRUCTION.
- ALL EROSION CONTROL MEASURES TO BE IN PLACE PRIOR TO CONSTRUCTION COMMENCEMENT.
- REFER TO ARCHITECTURAL PLANS FOR ANY/ALL STRUCTURAL RELATED ITEMS REQUIRED FOR CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH IRRIGATION DESIGNER FOR RELOCATION OF EXISTING SERVICE.
- REFER TO LANDSCAPE PLANS FOR PLANT MATERIAL REMOVAL.
- REFER TO MAINTENANCE OF TRAFFIC PLANS FOR MAINTENANCE OF VEHICLE AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION.

| Number | DBH (inches) | Species    | Notes           |
|--------|--------------|------------|-----------------|
| 6202   | 9            | Palm       | To Be Relocated |
| 6203   | 9            | Palm       | To Be Relocated |
| 6226   | Varies       | Palm Clump | To Be Relocated |
| 6227   | Varies       | Palm Clump | To Be Relocated |
| 6154   | 9            | Elm        | To Be Relocated |
| 6160   | 10           | Elm        | To Be Relocated |
| 6161   | 9            | Elm        | To Be Relocated |
| 6163   | 4            | Magnolia   | To Be Relocated |
| 6164   | 8            | Magnolia   | To Be Relocated |
| 6165   | 5            | Magnolia   | To Be Relocated |
| 6166   | 6            | Magnolia   | To Be Relocated |
| 6235   | 14           | Pine       | To Be Relocated |
| 6171   | 10           | Unknown    | To Be Relocated |
| 6222   | 7            | Palm       | To Be Relocated |
| 6223   | 7            | Palm       | To Be Relocated |
| 6167   | 7            | Magnolia   | To Be Relocated |
| 6213   | 7            | Palm       | To Be Relocated |
| 6214   | 7            | Palm       | To Be Relocated |
| 6215   | 8            | Palm       | To Be Relocated |
| 6168   | 8            | Magnolia   | To Be Relocated |
| 6216   | 8            | Palm       | To Be Relocated |
| 6218   | 11           | Palm       | To Be Relocated |
| 6219   | 7            | Palm       | To Be Relocated |
| 6220   | 25           | Palm       | To Be Relocated |
| 6221   | 22           | Palm       | To Be Relocated |
| 6169   | 4            | Poplar     | To Be Relocated |
| 6172   | 8            | Unknown    | To Be Relocated |

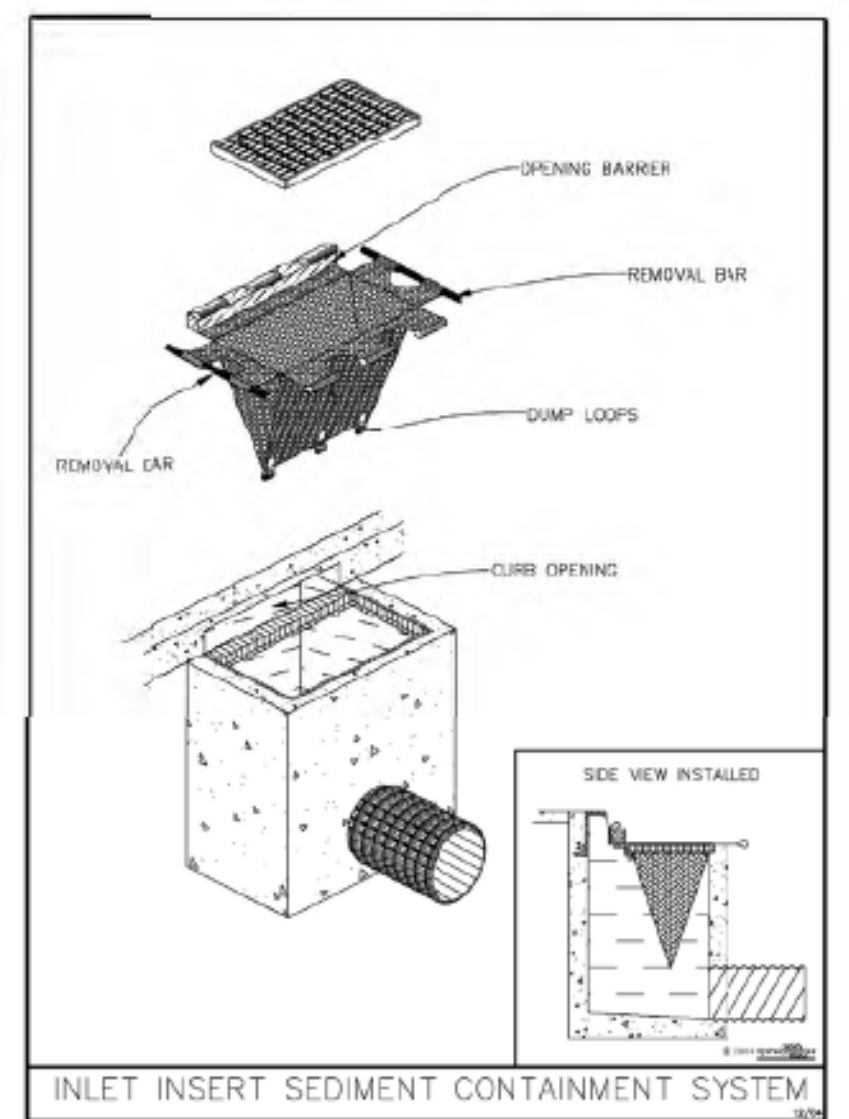
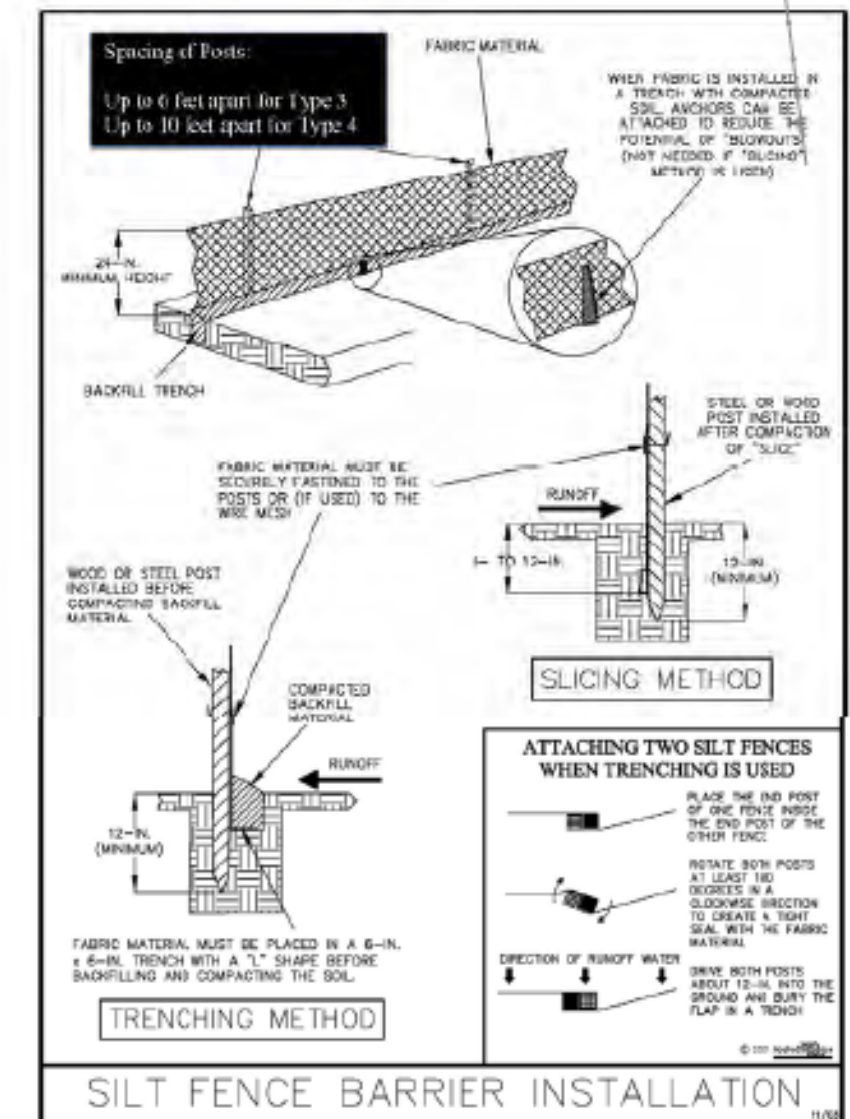
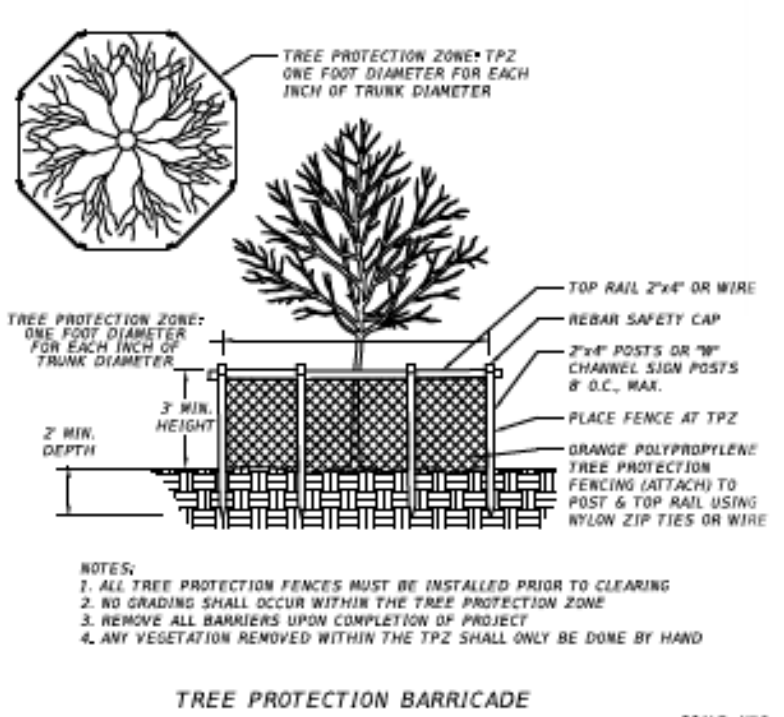
**DEMOLITION & EROSION CONTROL LEGEND**

- TREE PROTECTION
- TREE TO BE REMOVED
- REMOVE EXISTING SURFACE FEATURES
- INLET PROTECTION
- SEDIMENT BARRIER
- MS MOSAIC SLAB (APPROXIMATE LOCATION)
- MILLING AND RESURFACING SEE PAVING PLAN



**Summary**

- Approved plans:
  - Total transplants: 16 trees.
    - Transplant 4 magnolias.
    - Transplant 12 palms.
- Proposed approach
  - Of the 16 trees, preserve 6 in place; attempt to work around 3; remove 7.
    - Preserve 4 magnolias (in place)
    - Preserve 4 palms (in place)...2 were slated for removal, 2 for transplant
    - Attempt to work around 3 palms (in place)...3 were slated for transplant, but concerns of Lethal Bronzing
    - Remove 7 palms in lieu of transplanting, due to concerns of Lethal Bronzing.



**ML+H**

**ETM**

Richard Westheimer, P.E.  
Florida P.E. #8657  
SUPERVISOR

APPROVED

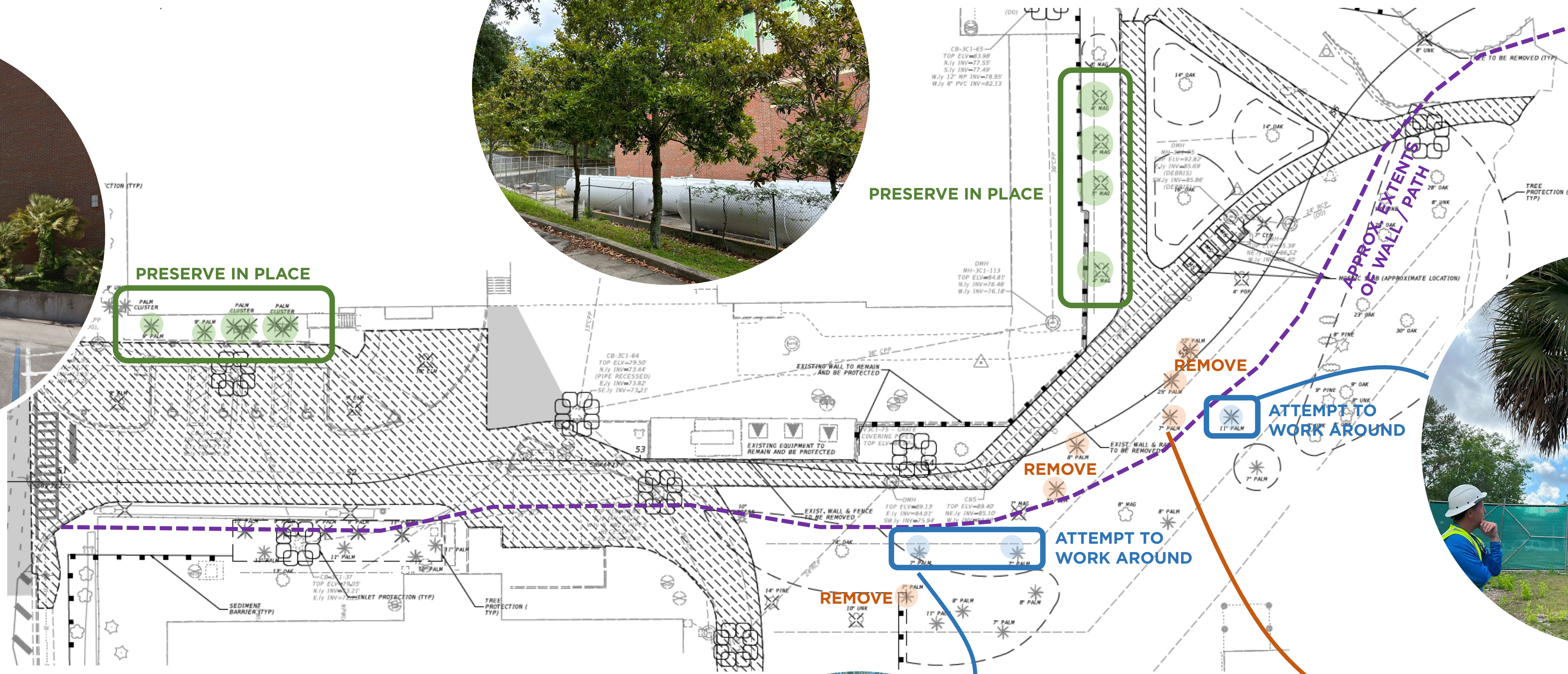
DRAWN BY: RNW  
CHECKED BY: JTH  
PROJECT MANAGER: JTH

**UF PHYSICS MULTI-USE PATH**  
UNIVERSITY OF FLORIDA

**DEMOLITION & EROSION CONTROL PLAN**

SIZE: ANSI D  
PRIME PROJECT NO.: 21-157  
ETM PROJECT NO.: 21-157  
DRAWING NO.: 4





**Summary**

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The logo for the University of Florida, consisting of the letters 'UF' in white on an orange square background.

**UF**

# Nuclear Field Building Renovation

## MP-07381

Schematic Design  
04 May 2023

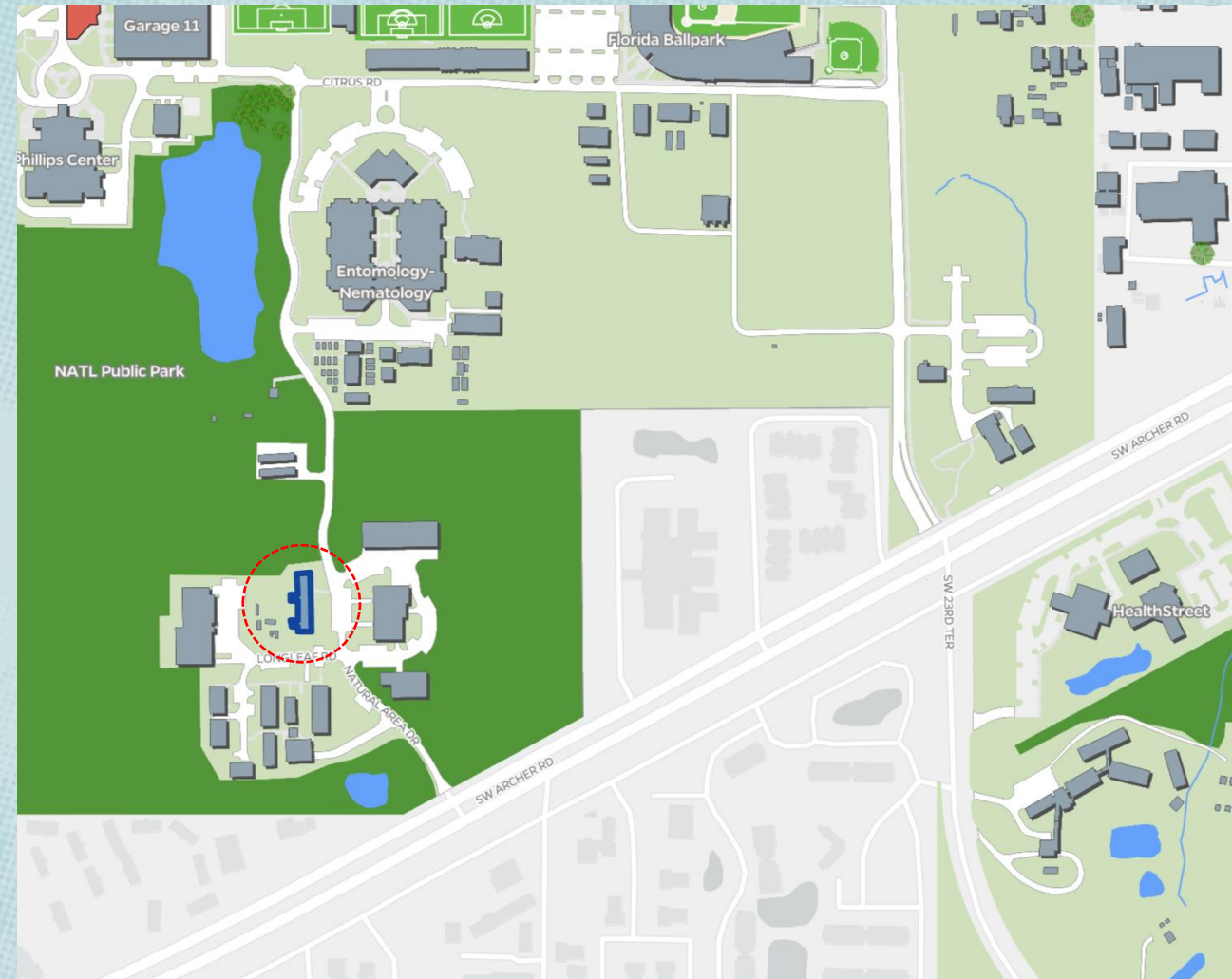
Stephen Caron, Project Manager





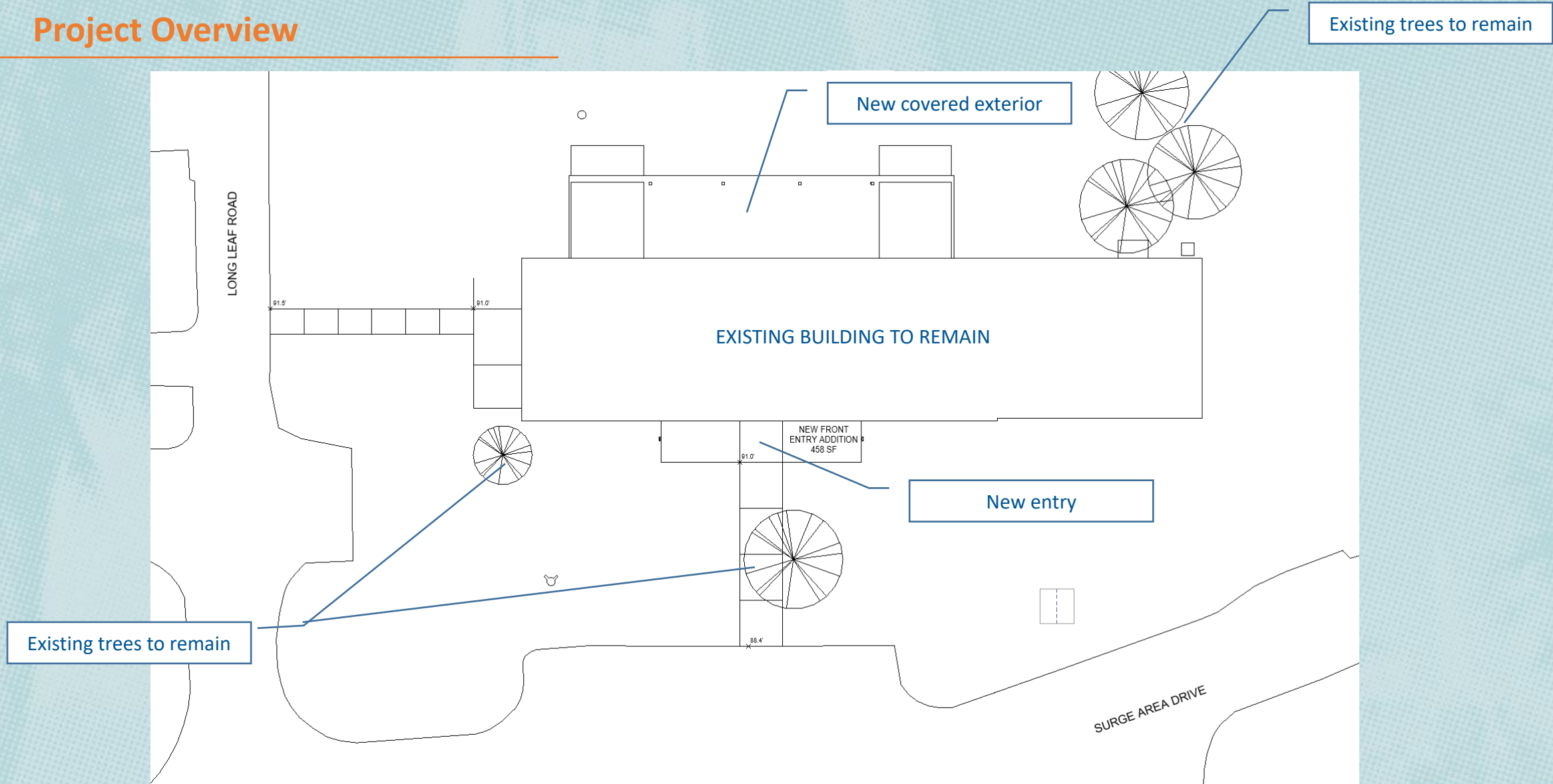
## Project Overview

- The Nuclear Field Building (0554; c. 1960) is located in the surge area of campus:  
2230 Surge Area Dr., Gainesville FL 32611
- The building will be renovated to house Environmental Health & Safety
- 6,890 GSF  
(6,402 GSF Existing; 488 GSF Addition)
- The existing building and site are being vacated by the College of Engineering and building will be adapted for reuse as an office building. Further, a series of projects will help to rehabilitate the site and improve drainage of the surge area.



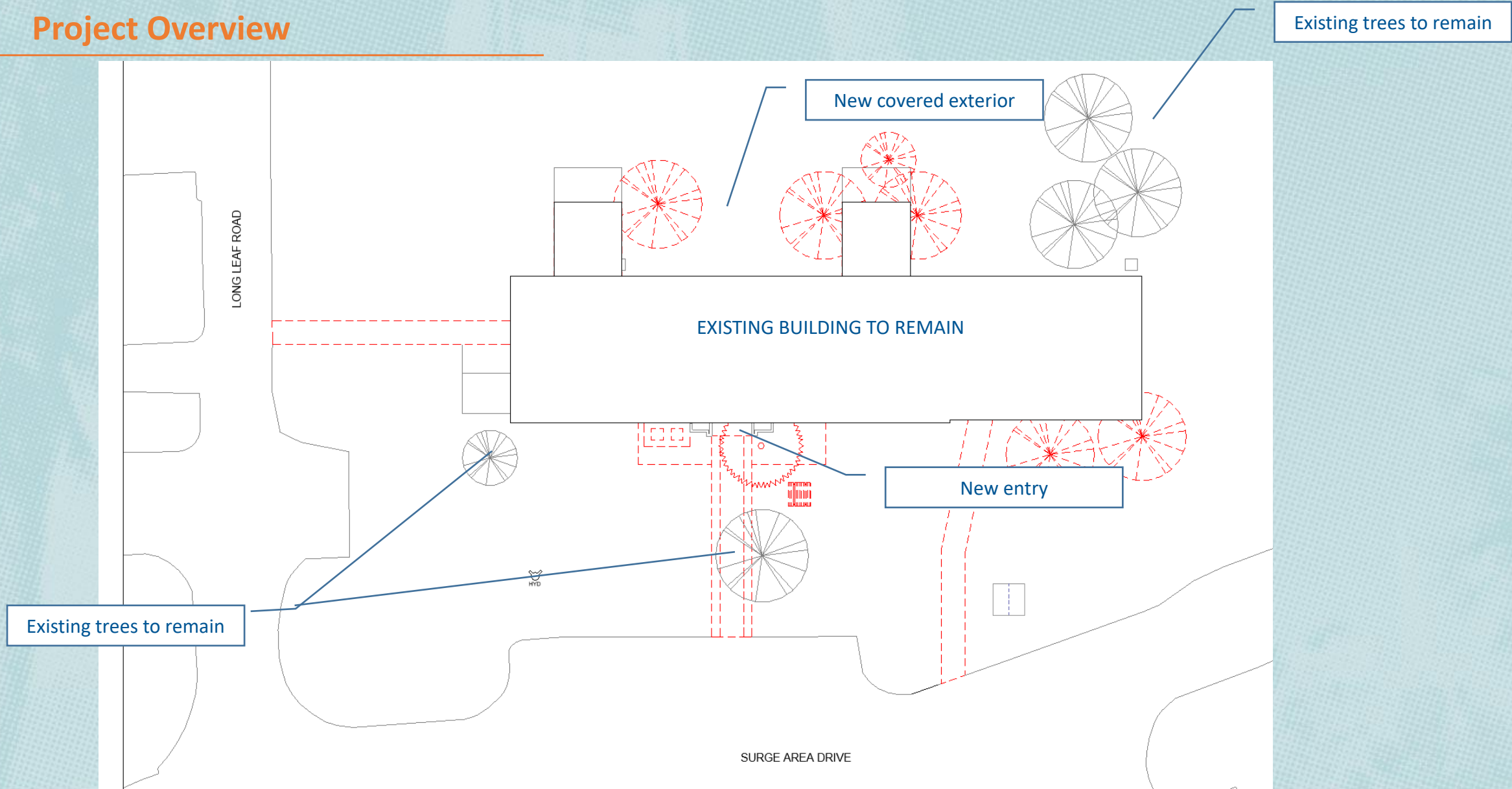


## Project Overview





## Project Overview





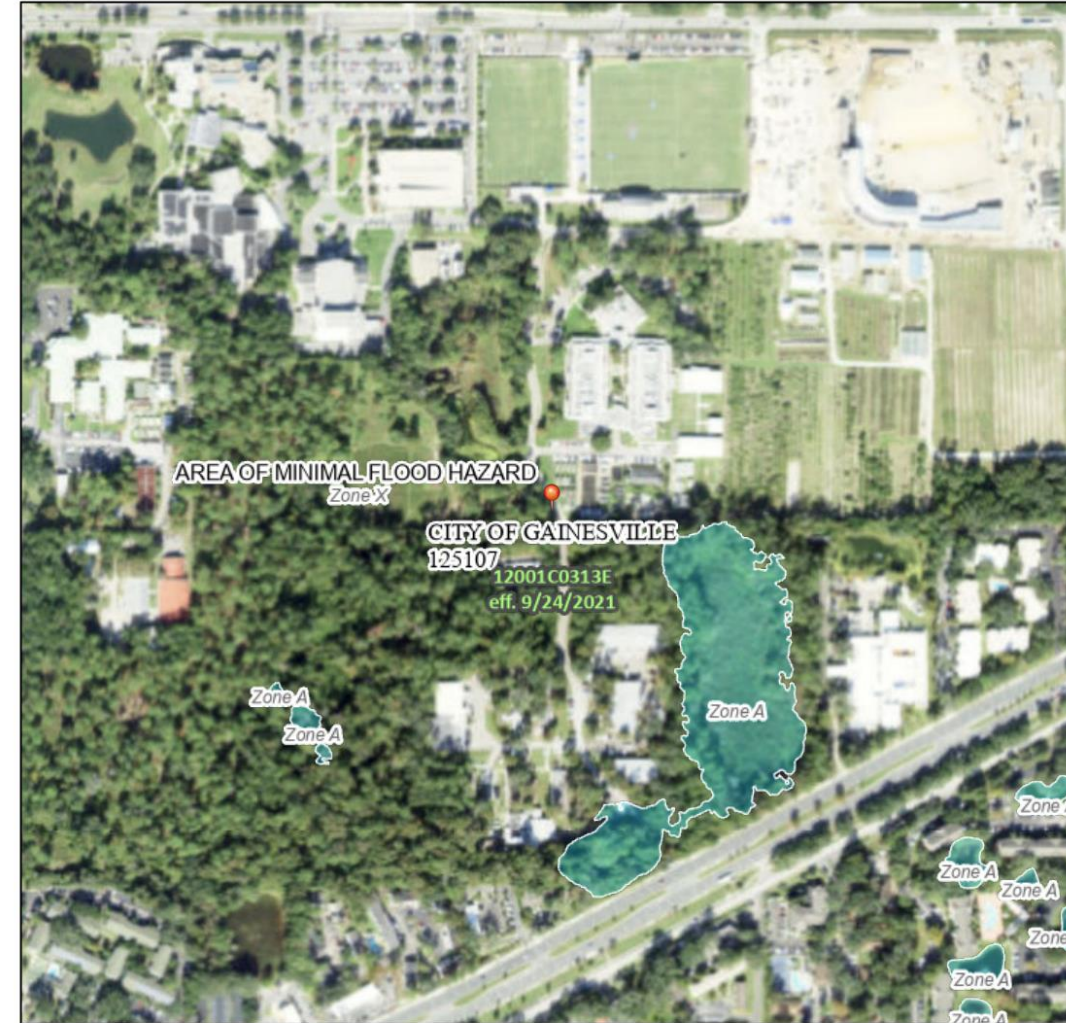
## Site Plan

- The existing building is in an area of minimal flood hazard per the FEMA map
- There are no known bird nests, habitats or archeological concerns with the existing building/ site
- There are no heritage trees identified

## National Flood Hazard Layer FIRMette



82°22'20"W 29°38'16"N



### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

|                             |  |   |
|-----------------------------|--|---|
| SPECIAL FLOOD HAZARD AREAS  |  | Without Base Flood Elevation (BFE)<br>Zone A, V, A99  |
|                             |  | With BFE or Depth Zone AE, AO, AH, VE, AR   |
|                             |  | Regulatory Floodway   |
| OTHER AREAS OF FLOOD HAZARD |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
|                             |  | Future Conditions 1% Annual Chance Flood Hazard Zone X  |
|                             |  | Area with Reduced Flood Risk due to Levee. See Notes. Zone X  |
|                             |  | Area with Flood Risk due to Levee Zone D  |
| OTHER AREAS                 |  | NO SCREEN Area of Minimal Flood Hazard Zone X   |
|                             |  | Effective LOMRs<br>Area of Undetermined Flood Hazard Zone D   |
| GENERAL STRUCTURES          |  | Channel, Culvert, or Storm Sewer  |
|                             |  | Levee, Dike, or Floodwall   |
| OTHER FEATURES              |  | Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                             |  | Coastal Transect  |
|                             |  | Base Flood Elevation Line (BFE)   |
|                             |  | Limit of Study  |
|                             |  | Jurisdiction Boundary   |
|                             |  | Coastal Transect Baseline   |
| MAP PANELS                  |  | Digital Data Available  |
|                             |  | No Digital Data Available   |
|                             |  | Unmapped  |
|                             |  | The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.                              |

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

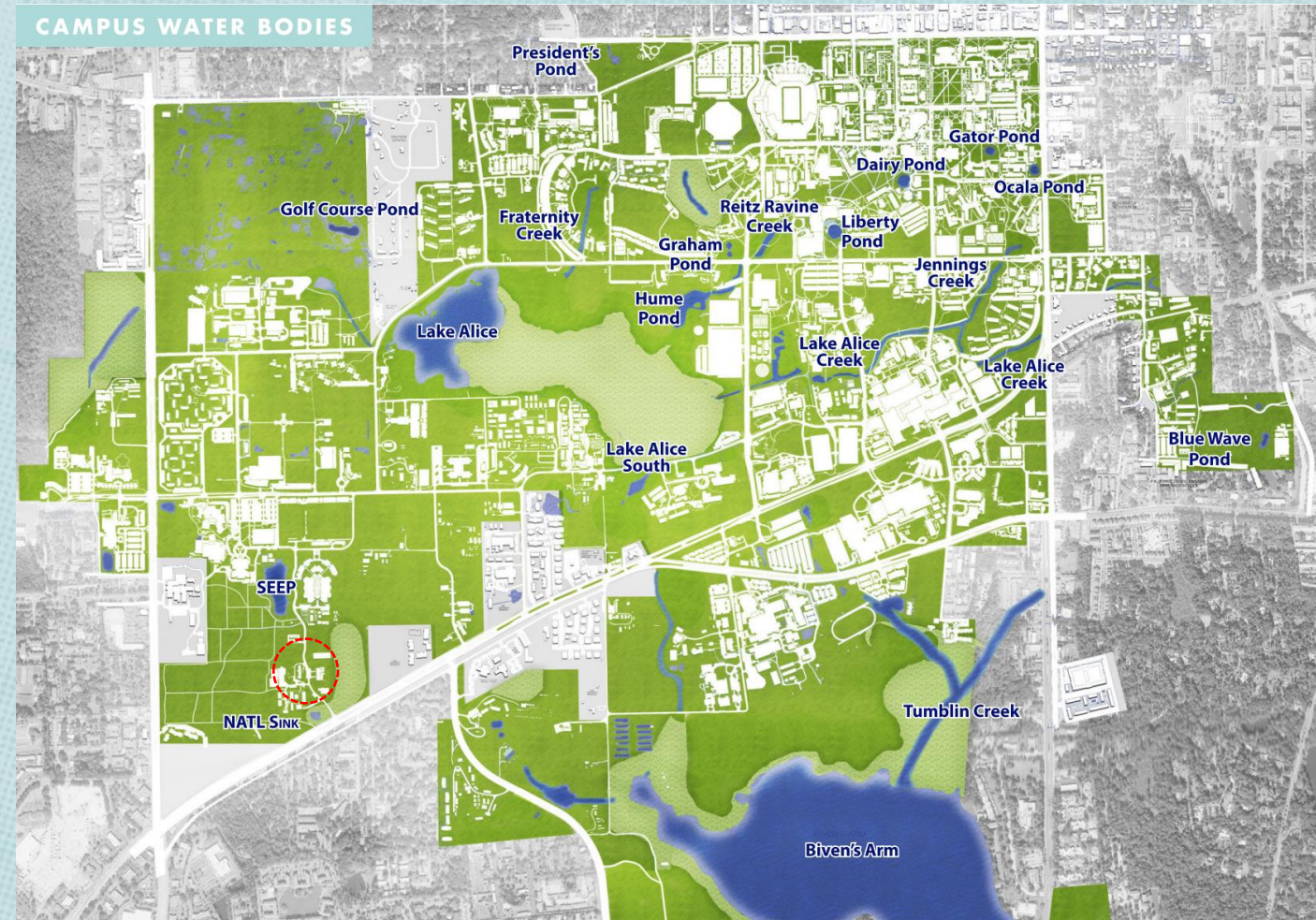
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/26/2023 at 1:51 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



## Site Plan (con't)

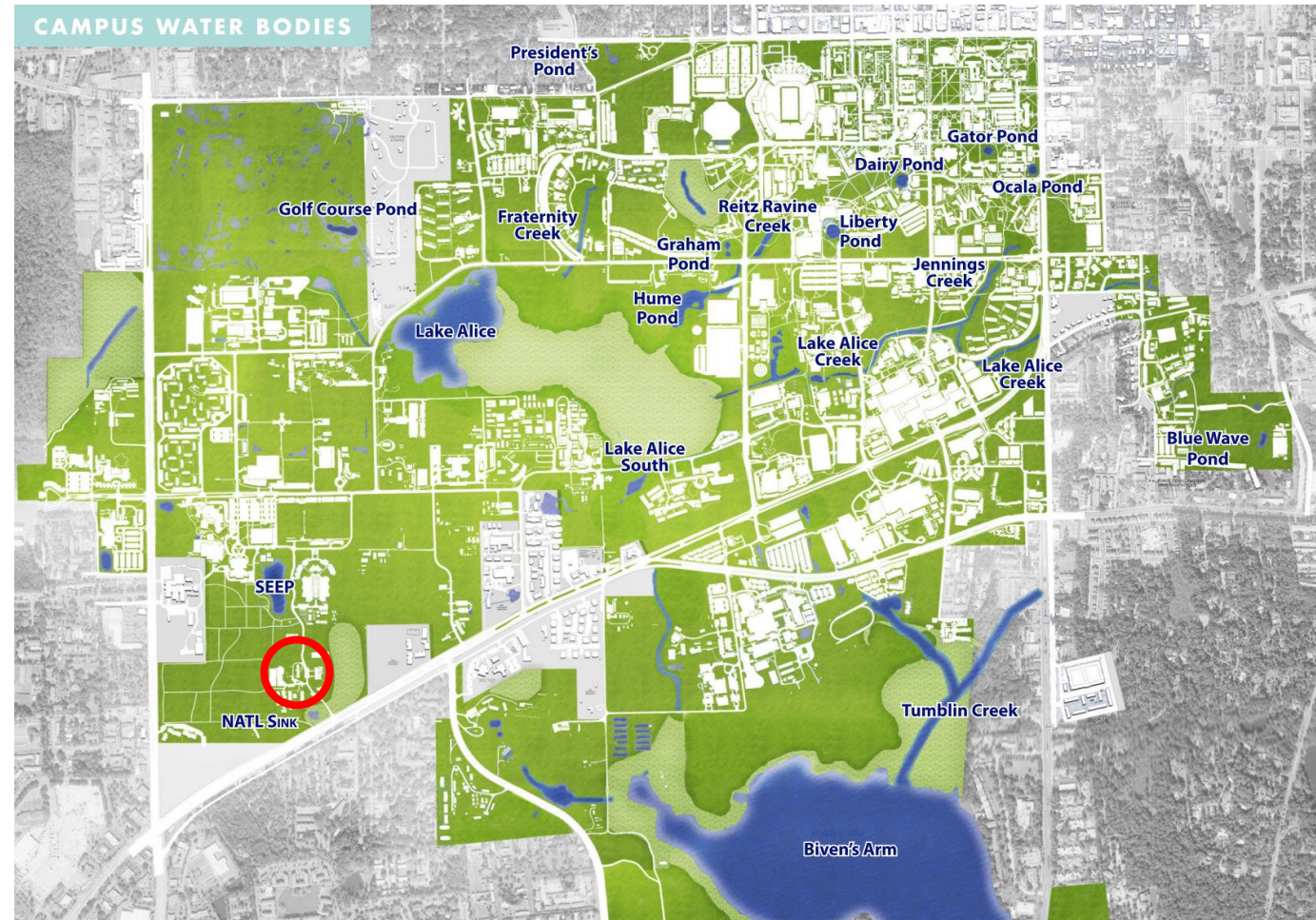
- The trees surrounding the existing building were planted too close to the structure
- Existing trees at entry present a concern for accessibility with evidence of heaving at sidewalks and structure and conflict with overhead utilities
- Trees present a danger to property and occupants due to size and location relative to exterior building envelope
- Three trees to be removed are in conflict with new entry and new covered patio to be added to existing building
- The trees requested to be removed exhibit signs of moderate to poor health, including:
  - Lack of significant canopy
  - Lack of new growth





## Master Plan Conformance

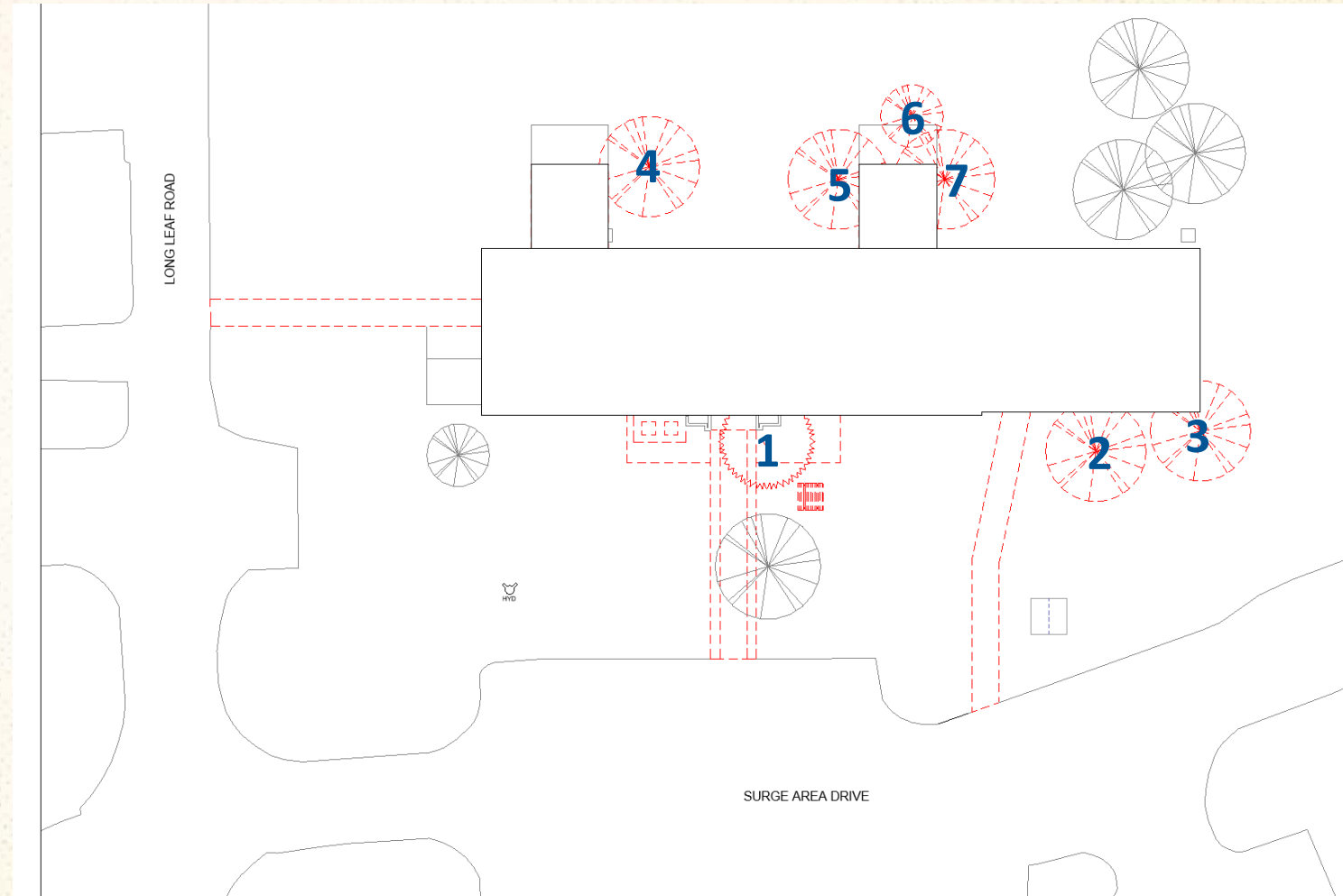
- The existing building site is in the West Precinct (per UF Landscape Master Plan)
- The existing building:
  - is NOT in an area identified as a priority project
  - Does not fall within an area identified as a campus area for enhancement
  - Does not front the Arts Axis or Arts Walk
  - Does front a secondary campus street
- Building is existing and minor addition complies with Campus Master Plan for setbacks
- The area is considered a Mesic Upland Forest
- Large trees recommended for this area include:
  - Pignut Hickory
  - Cabbage Palms
  - Longleaf Pine
  - Slash Pine
  - Live Oak
  - Swamp Chesnut Oak





## Tree Impacts

- Trees shown to be removed in dashed red lines
- Numbers on each tree relate to schedule on next slide and subsequent photos





## Tree Impacts





## Tree Impacts





## Tree Impact Summary

---

| Tree # | Species    | DBH | Health   | Photo | Proposed Mitigation |
|--------|------------|-----|----------|-------|---------------------|
| 1      | PINE       | 17" | MODERATE | 1     | REPLACE             |
| 2      | HICKORY    | 46" | MODERATE | 2     | REPLACE             |
| 3      | LAUREL OAK | 21" | POOR     | 3     | REPLACE             |
| 4      | LIVE OAK   | 24" | POOR     | 4     | REPLACE             |
| 5      | LIVE OAK   | 19" | POOR     | 5     | REPLACE             |
| 6      | LAUREL OAK | 12" | POOR     | 6     | REPLACE             |
| 7      | WATER OAK  | 13" | POOR     | 7     | REPLACE             |



## Sustainability and Site Impact Analysis

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- The project will not be pursuing any sort of certification
- The project will not explore relocating trees as their health is moderate to poor
- The project fronts the Surge Area and has adequate green space – particularly to explore replacement of trees removed
- Stormwater is being reviewed in a separate project related to regrading areas around the building to flow unencumbered to the Surge Area



Requested motion:

“A motion to approve removal of trees pending final plan for tree replacement on site.”



# Conservation Area Land Management (CALM) Plan

Lakes, Vegetation & Landscaping Committee  
5/4/23



PLANNING, DESIGN & CONSTRUCTION  
OFFICE OF SUSTAINABILITY  
BUSINESS AFFAIRS TECHNICAL SERVICES

An Overview of the CALM Update Process,  
Final Deliverables & Request for Approval



## HISTORY

- 2004 CALM Process
- **31** conservation areas, totaling **450+** acres
- **Confusion** around conservation area **oversight** within the campus community
- **February 2022** CALM Update process initiated
  - Approximately **30** member steering committee empaneled





## WHY ARE CAMPUS CONSERVATION AREAS IMPORTANT & HOW IS UF UNIQUE?

- Teaching
- Recreation
- Student experience
- Strategic Development Plan
- Research
- Stormwater treatment
- Flood control
- Wildlife corridors
- Biodiversity

*“I love that UF has these spaces on campus...It’s a huge part of what makes UF special and stand apart from other colleges.”*

- User Survey Response at Digital Design Wetlands





## CAMPUS-WIDE ENGAGEMENT

- **30** member Steering Committee
- **22** Site Visits
- **10** Follow-up Fridays
- **11** Working Sessions
- **189** responses to user surveys
- **3** campus tabling events
- **10+** Stakeholder Meetings
- Additional outreach events
- LVL Committee involvement



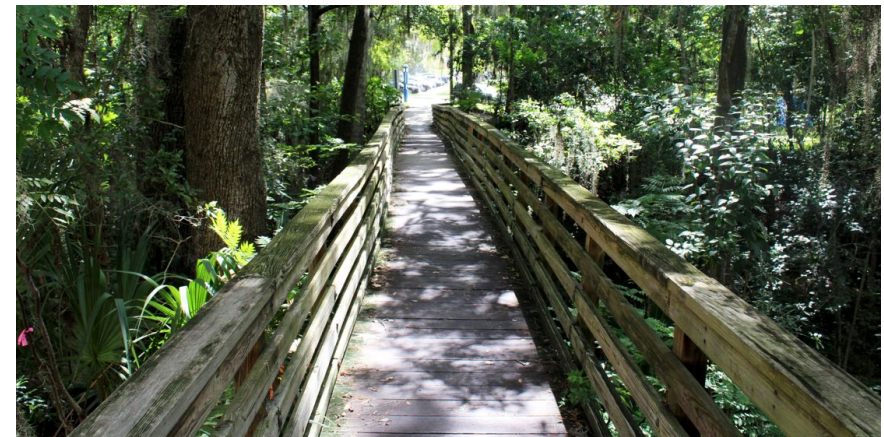


## UPDATES SINCE LAST LVL UPDATE

- Presented to and received **approval** from **upper administration** on the CALM Update and boundary verifications.
- Engagement efforts received the 2023 **Champions for Change Award**.
- Collaborating with Business Affairs Strategic Communications to **market and implement** the launch of the plan.
- All campus trails and conservation area amenities have been **collected & mapped**.
- **Lake Alice Watershed** Management Plan

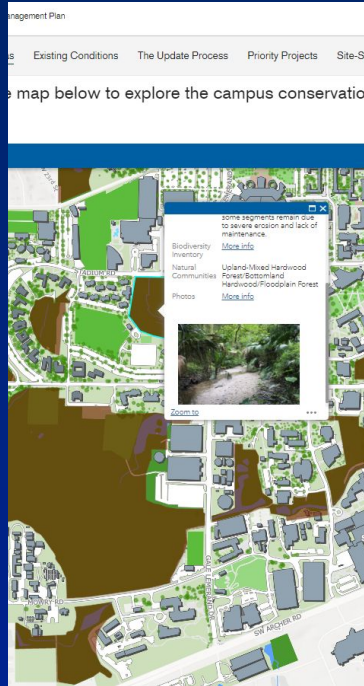
## FUNDING

- CITF Committee **awarded funding** for the planning & design of the **Jennings Creek Bridge** Project.
- Explored the use of **Tree Mitigation Funds** for invasive species & restoration projects.

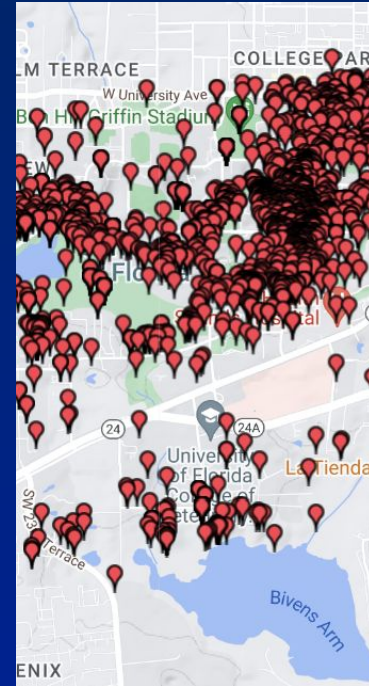




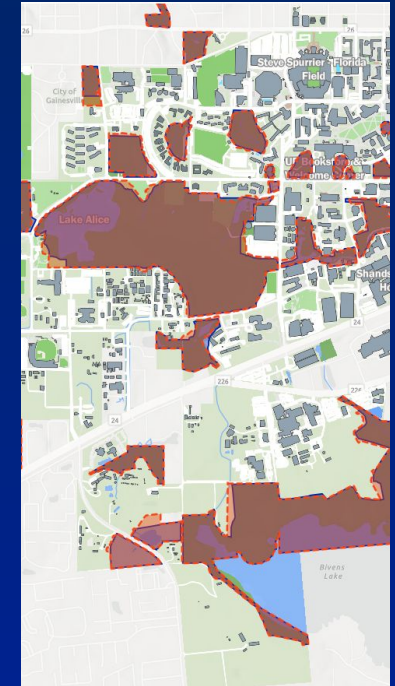
# DELIVERABLES



**INTERACTIVE  
CALM PLAN**



**BIOGATOR  
INVENTORY**



**BOUNDARY  
VERIFICATION**



- The CALM plan will include **1 overall** management plan with **23 site-specific** management plans.
- The updated plan will use a **dynamic platform** with **interactive features**.

## BEFORE - 2004

Conservation Area Land Management Plan

November 2004

### Introduction

The Conservation Element for the University of Florida Master Plan serves two purposes. The first purpose is the traditional role within comprehensive plans of inventorying current environmental conditions, or data and analysis, on a campus wide basis and then developing Goals, Objectives and Policies that both maintain good conditions and improve upon those identified as not meeting federal, state, and campus environmental standards. The second purpose is to specifically address each Conservation Area on campus and develop management activities that are tailored to the major issues of each. The following document will outline the latter of these two efforts by giving an overview of Campus natural areas and specific details on each designated Conservation Area.

The 2000-2010 Master Plan contained some inconsistencies between what was considered a conservation land use and what was considered a preservation area. In other words, some areas like the creeks adjacent to Sorority Row, P.K. Yonge and Diamond Village were considered Conservation Areas, but not preservation areas. In other cases, areas considered preservation were placed in the passive recreation land use category (examples Wilmot Gardens, DASH - Handicap course). Similarly, some wetlands and water bodies were not designated as a conservation land use. This plan, as well as the updated Master Plan, will strive to eliminate these inconsistencies and identify management strategies for those places designated as conservation.

### Conditions Inventory

#### Water Resources

The University of Florida's hydrology is unique from much of the State of Florida in that runoff from storm events, irrigation and surficial aquifer seepage all empty into depressions that ultimately recharge the Floridan aquifer. This is in contrast to the more typical view of Florida hydrology, which is generally characterized by surface water that runs into larger bodies of water that in turn flow to the ocean, or by areas of porous soils that allow water to recharge directly to an aquifer. The watersheds of the University are along the Cody Scarp. This scarp marks a geologic transition zone where the clays of the Northern Highlands physiographic province give way to karst prone limestones and sands of the Gulf Coastal Lowlands. Lands to the west of campus (transition area grading to Gulf Coastal Lowlands) are generally characterized as a mixture of sand and unconsolidated clays that allow for the easy downward movement of water to the Floridan aquifer, with very little in the way of surface water drainage features. Meanwhile, lands to the north and east of campus consist of remnants of the Northern Highlands province, which are characterized as poorly drained, low recharge, with significant drainage where water instead of recharging the aquifer makes its way via a series of creeks and rivers into the St. Johns River and ultimately the Atlantic Ocean. The University is in the transition zone between these provinces in a zone called a stream to sink watershed. As the name implies, stream to sink watersheds are where surface water flows down gradient and ultimately ends up in a depression or sinkhole. In the University's case the majority of surface water ends up in one of three depressions or sinkholes - Bivens Arm (Alachua Sink), Surgarfoot Prairie (Halle Sink) or Lake Alice (drainage wells).

#### Watersheds

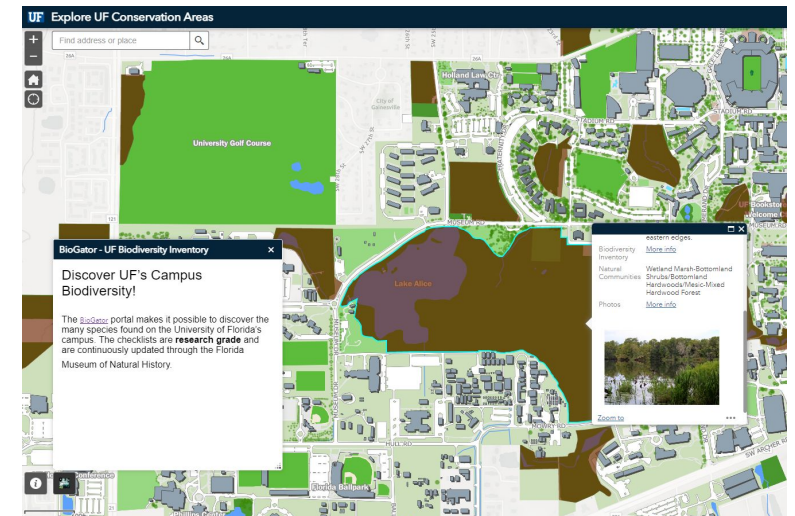
##### Lake Alice Watershed

The Lake Alice watershed (basin) covers about 80% of campus, with approximately 1,140 acres of the basin on campus and an additional 381 acres contributing from off campus. Stormwater, reclaimed irrigation water and surficial aquifer seepage from creeks are the major contributors to the lake, which is

## AFTER - CURRENT DRAFT



Introduction Conservation Areas Existing Conditions The Update Process Priority Projects Site-Specific Plans Using Conservation Areas





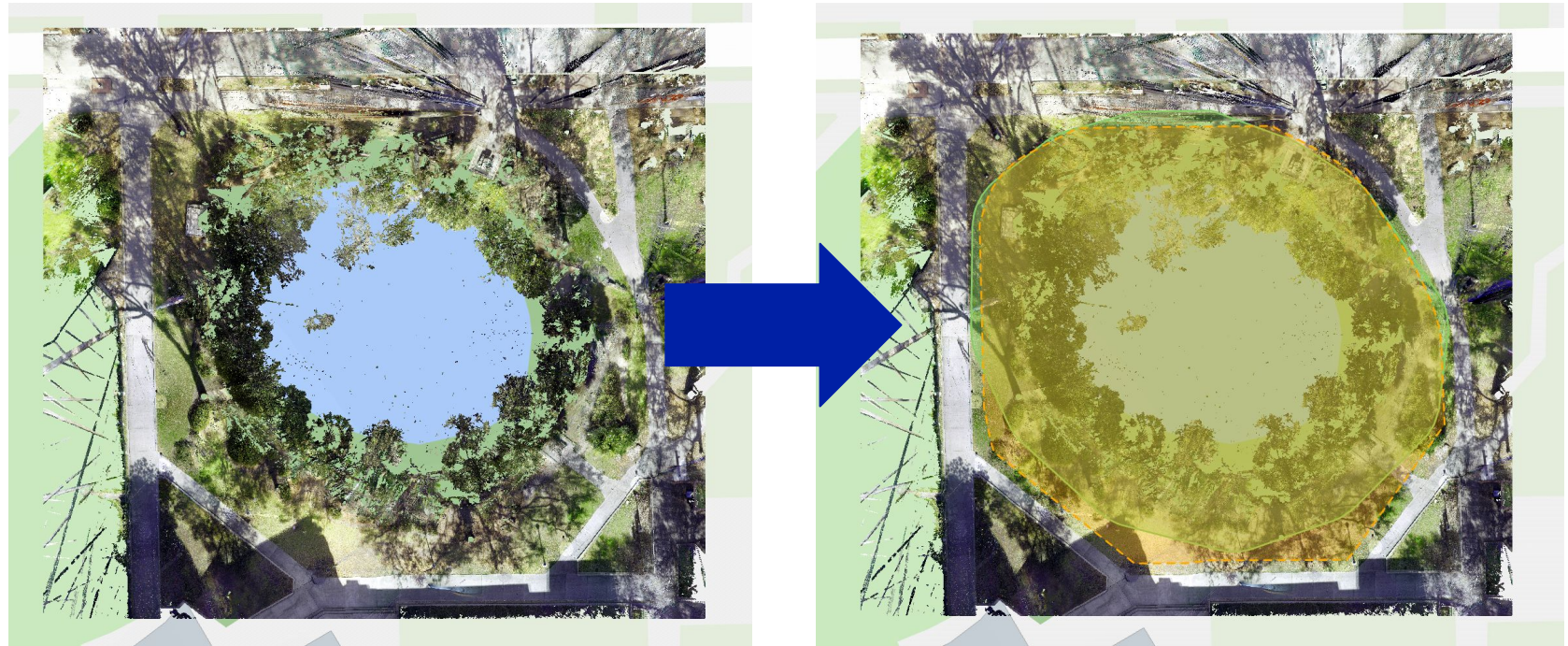
## COMMON THEMES





## FIELD VERIFIED BOUNDARIES

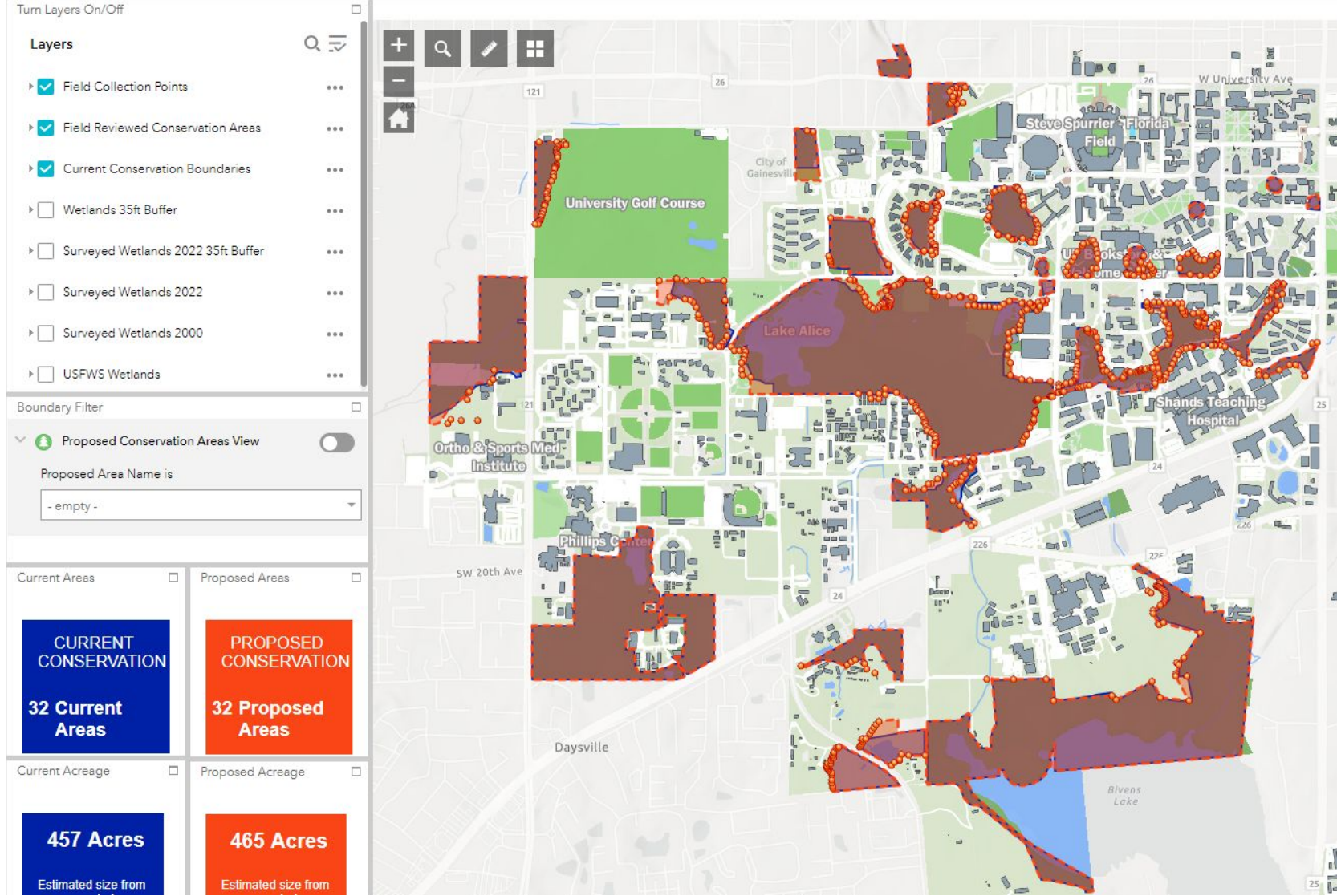
- This process provided **clear**, **consistent** and **accurate** boundary delineations.
- Trimble accuracy within **inches**, Lidar accuracy within **millimeters**
- **Data based** points





## COMMITTEE INVOLVEMENT IN BOUNDARY WORK

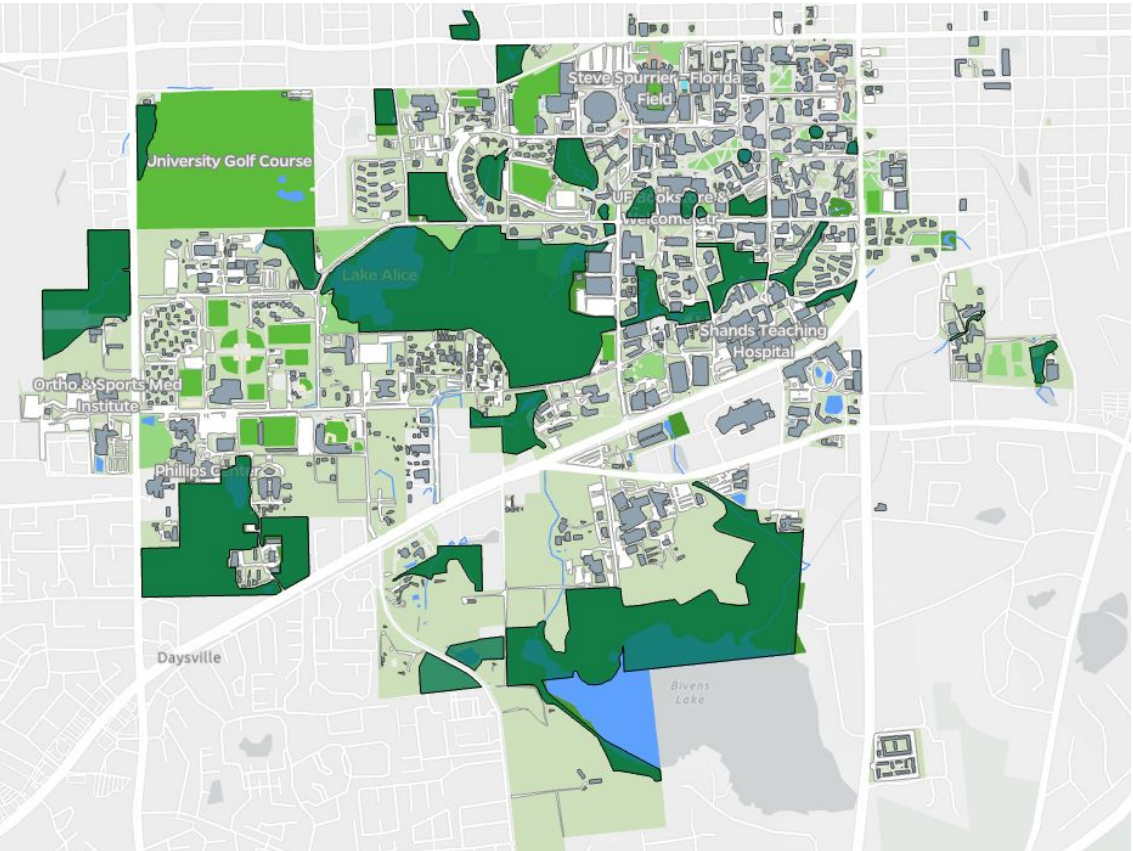
- Live updates in the **App** created by BATS allowed for the committee to **follow along** in the boundary update process



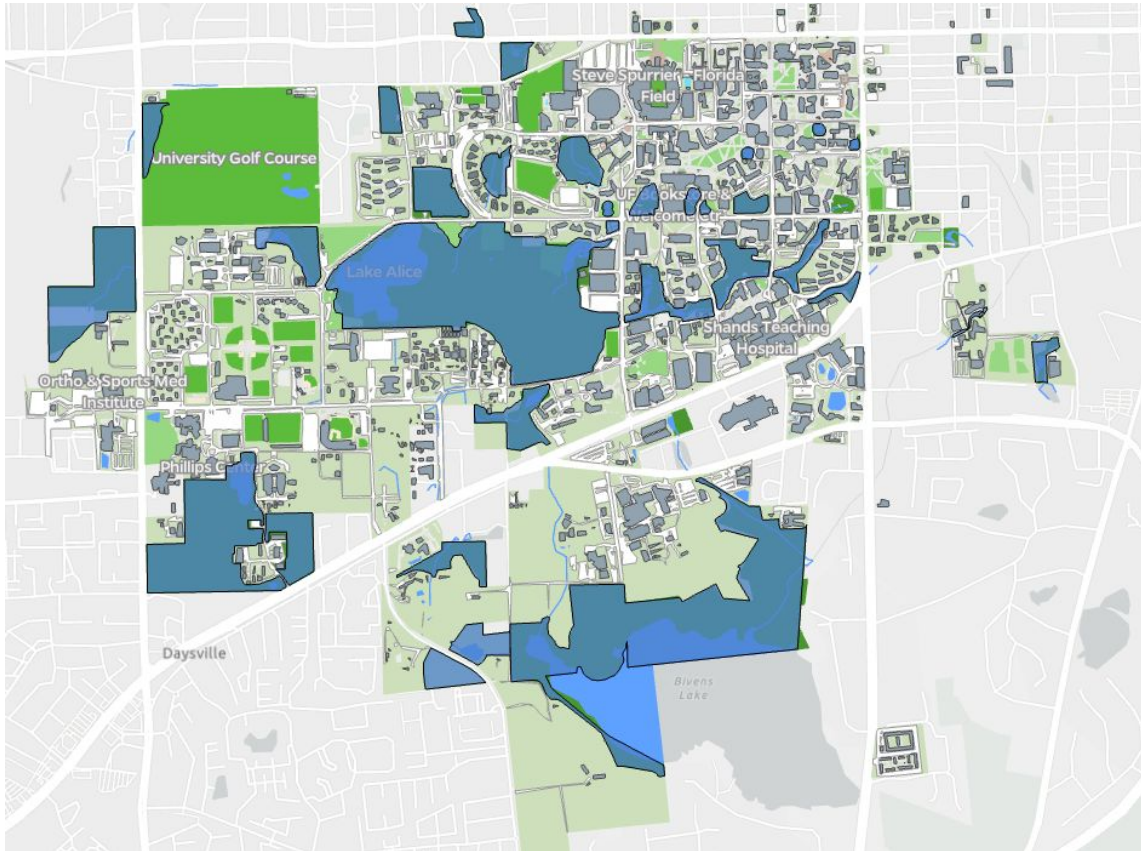


# BOUNDARY VERIFICATION

## Before & After Field Verification



**BEFORE**



**AFTER**



## REQUESTED MOTION

- A motion to approve the updated conservation area land management plans and associated field verified conservation area boundaries











# PRIORITY PROJECTS

| OVERALL PRIORITY PROJECTS   | SITE-SPECIFIC PRIORITY PROJECTS  |
|---|--|
| Updated identified signage for all conservation areas, including kiosks.        | Bridge remodel and site enhancements at Jennings Creek.                |
| Implement trails and boardwalk enhancements from the Campus Trails Master Plan. | Addition of pedestrian pathway along the parking lot at McCarty Woods. |
| Enhance connectivity among the conservation areas in the core campus.           | Bridge addition and safety enhancements at University Park Arboretum.  |
| Identify & implement accessibility improvements.                                | Expand trail system and include an overlook at Bivens Rim Forest.      |
| Install new tables and site furnishings.  | Restore Law School Woods as an accessible conservation area.           |
| Develop and fund a long-term plan for invasive species removal.                 | Provide public access and trail restoration at President's Park.       |