REPORT TO THE LAKES VEGETATION AND LANDSCAPING COMMITTEE

TO:	The LVL Committee	FOR:	March 12, 2020, LVLC meeting.
VIA:	Carlos Dougnac, Assistant Vice President, PDC	FROM:	Milo Zapata, Project Manager
REQUESTOR:	Dr. David Norton	PRESENTERS:	Frank Javaheri

	PHASE:	Committee Responsibilities:	STATUS AND PRIOR COMMENTS:	DATE:
X	PROGRAMMING	*The committee will review and recommend approval/denial of general site suitability - having evaluated impacts to trees, landscape, natural areas, and lakes.*		3-12-2020
	SCHEMATIC DESIGN	*The committee will review and recommend approval/denial of tree removal - plans for transplants, replacements and/or mitigation, based on the building footprint, utility corridors, and other construction activities.*		
	DESIGN DEVELOPMENT	*The committee will review and recommend approval/denial of final landscaping - appropriateness and inclusion of any mitigation for tree removal.*		

BACKGROUND INFORMATION:

PROJECT:
UF-652, Biomedical Research Building

SITE:
East side of Newell Drive, directly north of the creek. See attached location map.

STATUS:
Programming in progress. Project is on a fast track for A/E and CM selection to commence design and construction

OBJECTIVES:

- Approval of the programing phase
- Comments from the committee members to include in the Program documents

PROJECT PHASE AND PRESENTATION NARRATIVE:

The Office of Research is proposing the construction of a new stand-alone animal care facility. The plan is to construct this building southwest of the Health Science/Vet Med complex at what has been known as the Bivens Arm Research Center area.

Attached presentation will provide additional information with regards to site, building proposed elevation and footprint

ENCLOSURES:
1. CMP Checklist

Campus Master Plan Checklist

TO: ULUFPC, LVLC, PHBSC, P&TC **DATE:** **PROJECT:** UF 652 / Biomedical Research
Prepared by: **FROM:**

This form is to be completed for the applicable phase at the time that the project is reviewed by committees. Do not mark shaded cells in the columns because they do not apply to the review at the specified phase. Checklists should be cumulative so that projects presented at Design Development have all phase columns completed. Design-build projects may omit the Schematic Design phase column. These checklist criteria apply to development on the main campus and, as applicable, on Satellite Properties in Alachua County.

EVALUATION CRITERIA	PROGRAMMING AND SITE SELECTION			COMBINE FOR DESIGN-BUILD: SCHEMATIC DESIGN ☐ Concept ☐ Advanced			COMBINE FOR DESIGN-BUILD: DESIGN DEVELOPMENT		
	YES	NO	NA	YES	NO	NA	YES	NO	NA
UNIVERSITY LAND USE AND FACILITIES PLANNING COMMITTEE (ULUFPC)									
1) The project appears in the Capital Improvements Element, Table 13-1 (Ten-Year Capital Projects List) and Figure 13-1 (Future Building Sites) ☐ As presented in the adopted Campus Master Plan ☒ With edits to Table 13-1 to modify the project GSF or description ☒ With edits to Figure 13-1 to modify or assign the project site	X						-	-	-
a) If "no" or with edits: The addition or modification of the project in the CMP can be accomplished as a Minor Amendment (per UF Operating Memorandum) and without changing the Campus Development Agreement							-	-	-
2) The project is consistent with the Future Land Use designation and definition *(Figure 2-1, Future Land Use and Policies 1.1.2 and 1.1.8)*	X						-	-	-
a) If "no", the necessary modification to Figure 2-1 (Future Land Use) can be accomplished as a Minor Amendment (per UF Operating Memorandum) and without changing the Campus Development Agreement							-	-	-
3) The project location is consistent with policies that direct the location of specific uses (i.e. academic facilities, support/clinical facilities, housing, recreation/open space & parking) *(Academic Facilities, Policy 1.2.3; Support/Clinical, Policies 1.1.3, 1.1.4 and 1.1.6; Housing, Policy 1.3.1; Recreation/Open Space, Policies 1.3.1 and 1.3.3; Transportation Policy 2.5.4 and 2.5.6)*	X						-	-	-
4) ☒ The project is not a temporary building; OR ☐ The temporary building is located in the Surge Area, Energy Park, Physical Plant Division complex, Academic/Research-Outdoor Future Land Use, or the temporary building supports construction activity *(Capital Improvements, Policy 1.1.15)*	X			-	-	-	-	-	-
5) The project considers life-cycle costing, pursues principles of sustainable design and/or seeks LEED certification *(Capital Improvements, Policy 1.1.14)*	X								
6) The building footprint, orientation and setback comply with Policy 1.3.1, Urban Design Element because the project is located with road frontage along Stadium Rd (Gale Lemerand Dr to Buckman Dr), University Ave (Gale Lemerand Dr to SW 13th St), SW 13th St, Center Drive, Museum Rd (west of Center Dr. to SW 13th St), Archer Rd/SW 16th Ave, or Radio Rd; or within new centers of development (i.e. near Orthopaedics & Sports Med, Cultural Plaza, Southwest Recreation, and near Fifield Hall)			X			X			X

Campus Master Plan Checklist

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	YES	NO	NA	YES	NO	NA	YES	NO	NA
7) The project is a minimum of 3-stories; OR the project demonstrates unique programmatic, functional or code requirements that dictate a variance from the 3-story minimum; OR the project meets alternate building height and design characteristic requirements based on its location in unique areas of campus for which more specific building design requirements apply (i.e. near Orthopaedic & Sports Med, SW Research Circle/Cancer-Genetics area, Fifield Hall area, Cultural Plaza, Radio Road Commuter Lot area, Archer Road Corridor/Planning Sector "G", Historic Impact Area, PKY Developmental Research School and Eastside Campus) *(Urban Design, Policy 1.3.4 through 1.3.10)*; OR the project meets guidance for building height and design of housing facilities *(Housing, Policy 1.3.2)*	X								
8) The project provides community design integration along campus perimeters as described in Policies 1.2.1 and 1.4.3, Urban Design Element, with respect to landscaping, hardscaping, views, signage, and bicycle/pedestrian accommodation as applicable because the project is located along Gateway Roads identified in Figure 1-6, Urban Design Element (i.e. University Ave, SW 2nd Ave, SW 13th St, Archer Rd, and SW 34th St)	-	-	-						
9) ☐ The project includes exterior public art; - *Note: LVLC and PHBSC (if applicable) approval recommendation required* OR ☐ The project demonstrates that exterior installation of public art is infeasible or undesirable *(Urban Design, Policies 1.6.2, 1.6.3 and 1.6.4)*	-	-	-						
10) Utilities and associated support structures are installed underground or are appropriately screened from view by decorative architectural walls or landscaping *(Electric Power and Other Fuels Sub-Element, Policy 2.1.7 and 2.1.8)*	-	-	-						
PRESERVATION OF HISTORIC BUILDINGS AND SITES COMMITTEE (PHBSC) – Note: see also #9 above									
11) The project meets the requirements of the University's Memorandum of Agreement with the State Division of Historical Resources because ☒ The site is located adjacent to an Archaeological Site or within an Archaeological Sensitivity Zone *(Urban Design, Policy 1.7.1)*: AND/OR ☐ The project is new construction or a building addition located within the Historic District or Historic Impact Area depicted on Figure 1-2, Urban Design Element; AND/OR ☐ The project includes renovation, rehabilitation or restoration of an existing structure that meets the definition of "historic property" described in Policy 1.5.4 of the Facilities Maintenance Element			X			X			X
a) If "yes" for new construction or building additions, the project design is sensitive to the orientation and character defining features of existing structures in the Historic Impact Area *(Urban Design, Policy 1.7.2)*; with a building height between 2 and 5 stories not to exceed the height of existing historically significant buildings in close proximity *(Urban Design, Policy 1.3.7)*			X			X			X

Campus Master Plan Checklist

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	YES	NO	NA	YES	NO	NA	YES	NO	NA
LAKES, VEGETATION AND LANDSCAPING COMMITTEE (LVLC) – Note: see also #8 above									
12) ☒ The project does not reduce the size of an area in the Conservation Future Land Use (Figure 2-1, Future Land Use); OR ☐ The project mitigates the Conservation Future Land Use change per Conservation, Policy 1.4.11	X								
13) ☐ The project (or any associated utilities or infrastructure) is not adjacent to or within a Conservation Future Land Use; OR ☒ The project siting, orientation and landscaping minimize visual impact on the Conservation Area, preserve native vegetation and allow a graduated transition from developed areas to Conservation Areas *(Conservation Element, 1.1.4)*	X								
14) The project minimizes impacts and conforms to the intent of the Conservation Area because the project is for new utilities or infrastructure (including exterior lighting and stormwater facilities) within a Conservation Future Land Use *(Conservation, Policies 1.4.8, 1.4.9 and 1.4.10) – Note: LVLC approval recommendation required*	X								
15) ☐ The project is not within 50-feet of a wetland; OR ☒ The project within 50-feet of a wetland minimizes impacts to wetlands and the required wetland buffers; and provides a minimum 35-foot setback and average 50-foot setback; and uses only native plants in a naturalistic landscape design within wetland buffers *(Conservation, Policies 1.2.1, 1.2.2, 1.2.3, 1.2.4, and 1.2.5)*	X								
16) ☒ The project is not within the 100-year floodplain; OR ☐ The project within the 100-year floodplain addresses building elevation, compensating storage and off-site mitigation *(Conservation, Policy 1.2.6)*	X								
17) ☒ The project does not disturb any plants or animals identified as threatened and endangered species or species of special concern by federal and state agencies; OR ☐ The project inventories such species and develops protection or relocation plans in coordination with appropriate local, state and federal agencies *(Conservation, Policies 1.3.2 and 1.3.3)*	X								
18) ☒ The project site does not impact an Open Space Connection identified in Figure 1-4, Urban Design Element ; OR ☐ The project maintains, enhances or satisfactorily realigns the open space connection *(Urban Design, Policies 1.2.4 and 1.3.2; and Transportation, Policy 2.2.5)*	X								
19) ☒ The project site is not within or adjacent to an Open Space Enhancement Priority area identified in Figure 1-5, Urban Design Element; OR ☐ The project provides appropriate landscaping, hardscaping, and bicycle/pedestrian open space enhancement for the related Open Space Enhancement Priority area *(Urban Design, Policy 1.4.2)*	X								
20) The project integrates with existing topography and natural features *(Urban Design, Policy 1.3.11)*	X								

Campus Master Plan Checklist

EVALUATION CRITERIA	PROGRAMMING AND SITE SELECTION			COMBINE FOR DESIGN-BUILD: SCHEMATIC DESIGN ☐ Concept ☐ Advanced			DESIGN DEVELOPMENT		
	YES	NO	NA	YES	NO	NA	YES	NO	NA
21) The project identifies any potential adverse affects, accommodates any increase in volume of runoff over the pre-development volume for a 72-hour period from the 100-year storm event, and provides a courtesy review to the City of Gainesville because the project is within the Hogtown Creek drainage basin *(General Infrastructure Stormwater Sub-Element, Policy 1.3.5)*			X						
22) The project use trees, plant materials, exterior furniture, paving materials and walls to reinforce spatial organization and create "outdoor rooms" in functional open space adjacent to buildings, within the Urban Park Future Land Use, and along roadways, pedestrian connections and shared-use paths depicted in Figure 1-4 *(Urban Design, Policies 1.3.3 and 1.4.1)*	-	-	-						
23) Stormwater retention facilities associated with the project (if any) are designed to be natural and curvilinear in outline with variable side slopes, smooth transitions to existing grade and planted with native vegetation *(General Infrastructure Stormwater Sub-Element, Policies 1.2.4 and 1.2.5)*	-	-	-						
24) The project incorporates Best Management Practices and Low Impact Development design to address stormwater quality and quantity including pollutants, erosion and sedimentation *(General Infrastructure Stormwater Sub-Element Policies 1.3.2, 1.3.3, 1.3.4 and 1.4.1)*	-	-	-						
25) The project satisfies UF Design & Construction Standards for tree protection, removal, relocation and mitigation *(Urban Design, Policies 1.4.9, 1.4.10 and 1.4.12) – Note: LVLC approval recommendation required*	-	-	-						
26) The project satisfies UF Design & Construction Standards for landscaping in parking lots and around buildings, and installation is concurrent with the appropriate building construction phase *(Urban Design, Policies 1.4.13, 1.4.14 and 1.4.15) – Note: LVLC approval recommendation required*	-	-	-						
PARKING AND TRANSPORTATION COMMITTEE (P&TC) – Note: see also #18 and #19 above									
27) The project provides a traffic engineering study with a courtesy review by UF's host local governments because the project includes a parking structure or surface with at least 300 parking spaces located in Alachua County *(Transportation, Policy 1.2.2 and 1.2.3)*			X						
28) ☐ The project does not result in any significant loss of existing parking; OR ☒ The loss of significant existing parking is mitigated - Note: Parking loss mitigation to be negotiated in consultation with the P&TC *(Transportation, Policy 2.6.5)*	X								
29) The project satisfies UF Design & Construction Standards for bicycle parking including quantity, location and lighting with covering as feasible *(Transportation, Policy 2.2.6)*	-	-	-						
30) ☐ The project provides hot water showers and lockers for use by bicycle commuters; OR ☐ The project demonstrates that hot water showers and lockers are infeasible *(Transportation, Policy 2.2.13)*	-	-	-						
31) The project provides adequate parking to meet the needs of disabled persons, service and delivery vehicles necessitated by the building construction project *(Transportation, Policy 2.6.5)*	-	-	-						

UF-652, Biomedical Research Building

Programming Phase

Presentation for the

Lake, Vegetation and Landscaping Committee

March 12, 2020

UF-652, Biomedical Research Building

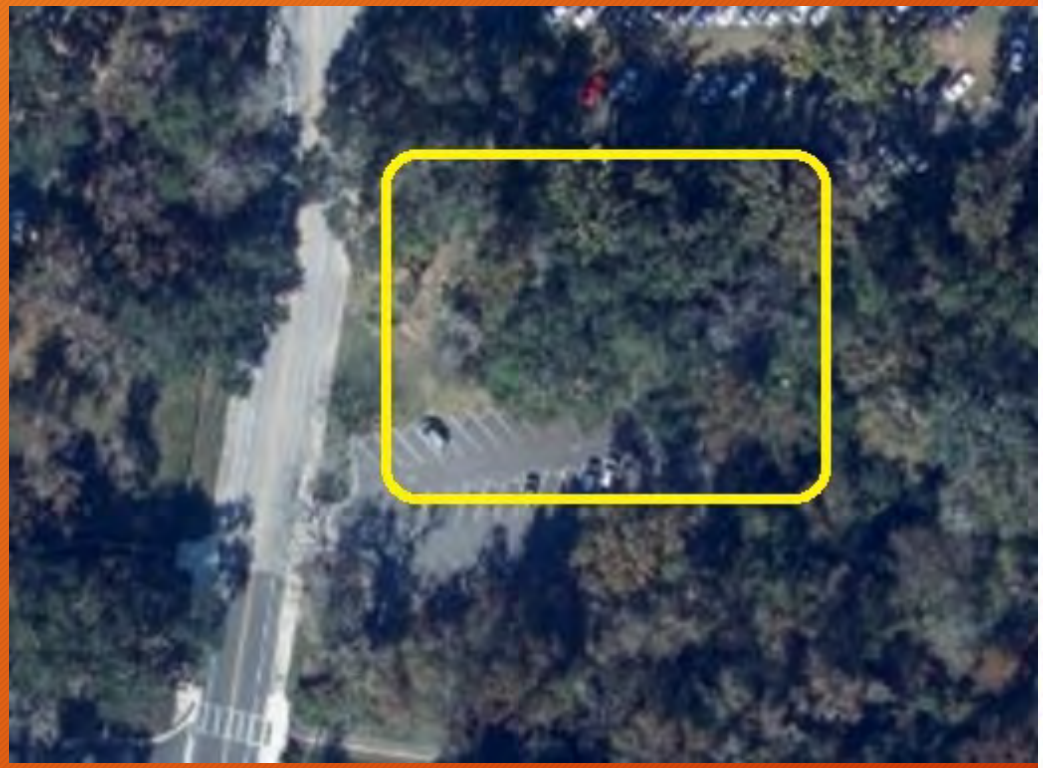
- Requesting Approval and Comments for the Programming Phase
- A/E & CM Selection to start within 30 days
- General Project Description
- Vehicular & Trees Impact
- Q&A

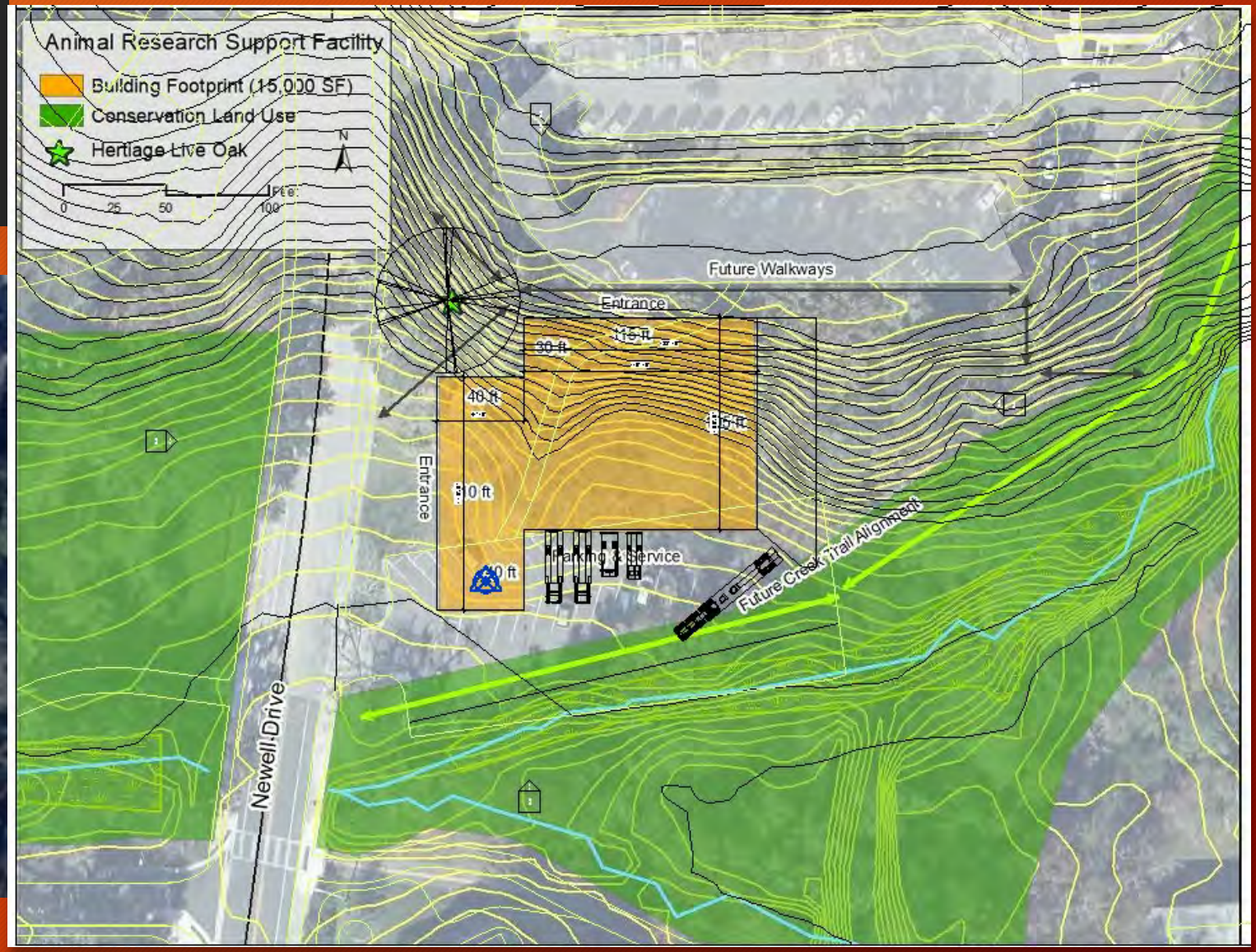

Site
Newell Drive

Proposed Biomedical Research Building

Site Street View Facing South

Proposed Biomedical Research Building

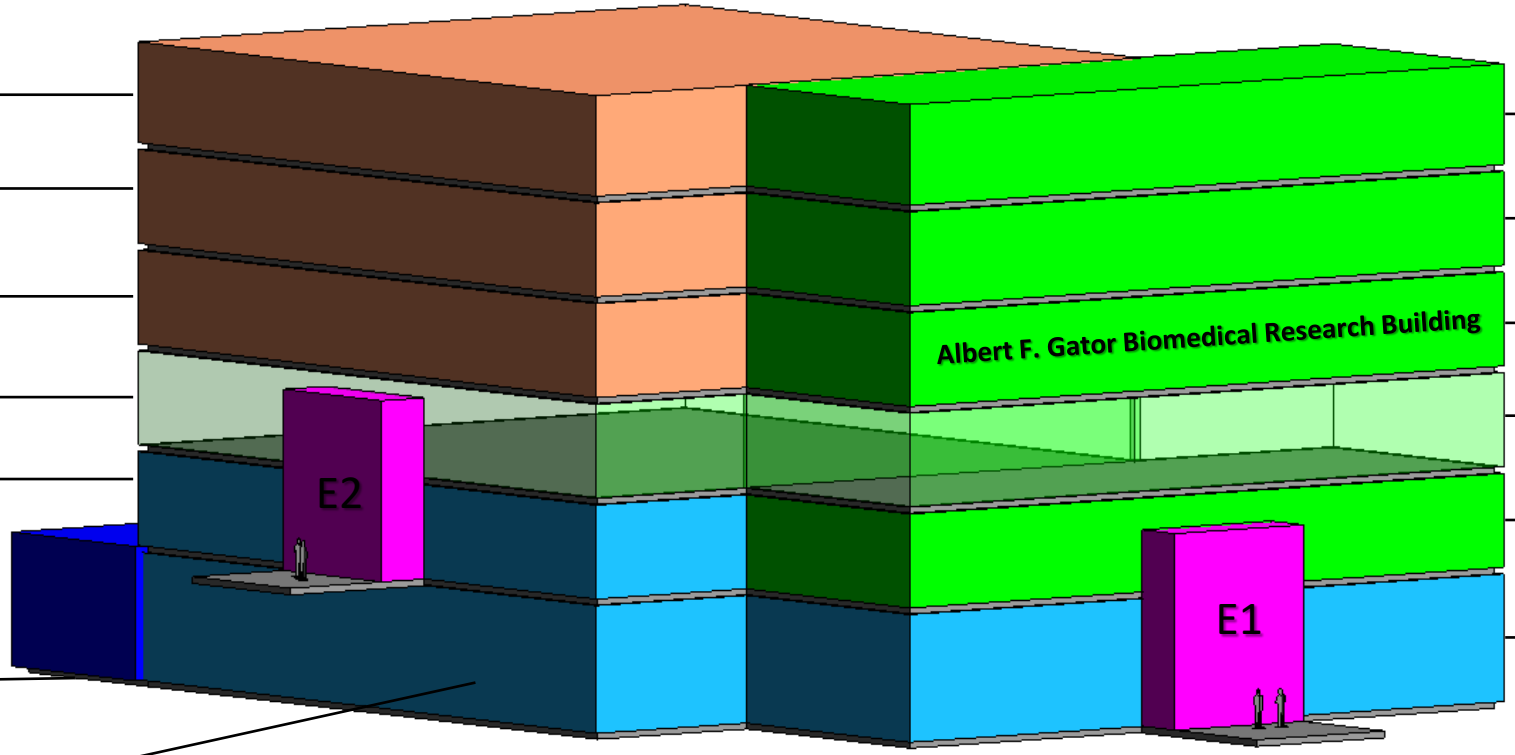




Proposed Biomedical Research Building

Site Street View Facing North

Proposed Biomedical Research Building



COM Research
10,600 GSF

COM Research
10,600 GSF

COM Research
10,600 GSF

COM "Shell"
15,000 GSF

ACS Animal Holding & Procedure
10,600 GSF

ACS Loading/Storage/ Supply
4000 GSF

ACS Cage/Tunnel Wash, Support, Mechanical
10,600 GSF

COM Office
4400 GSF

COM Office
4400 GSF

COM Office
4400 GSF

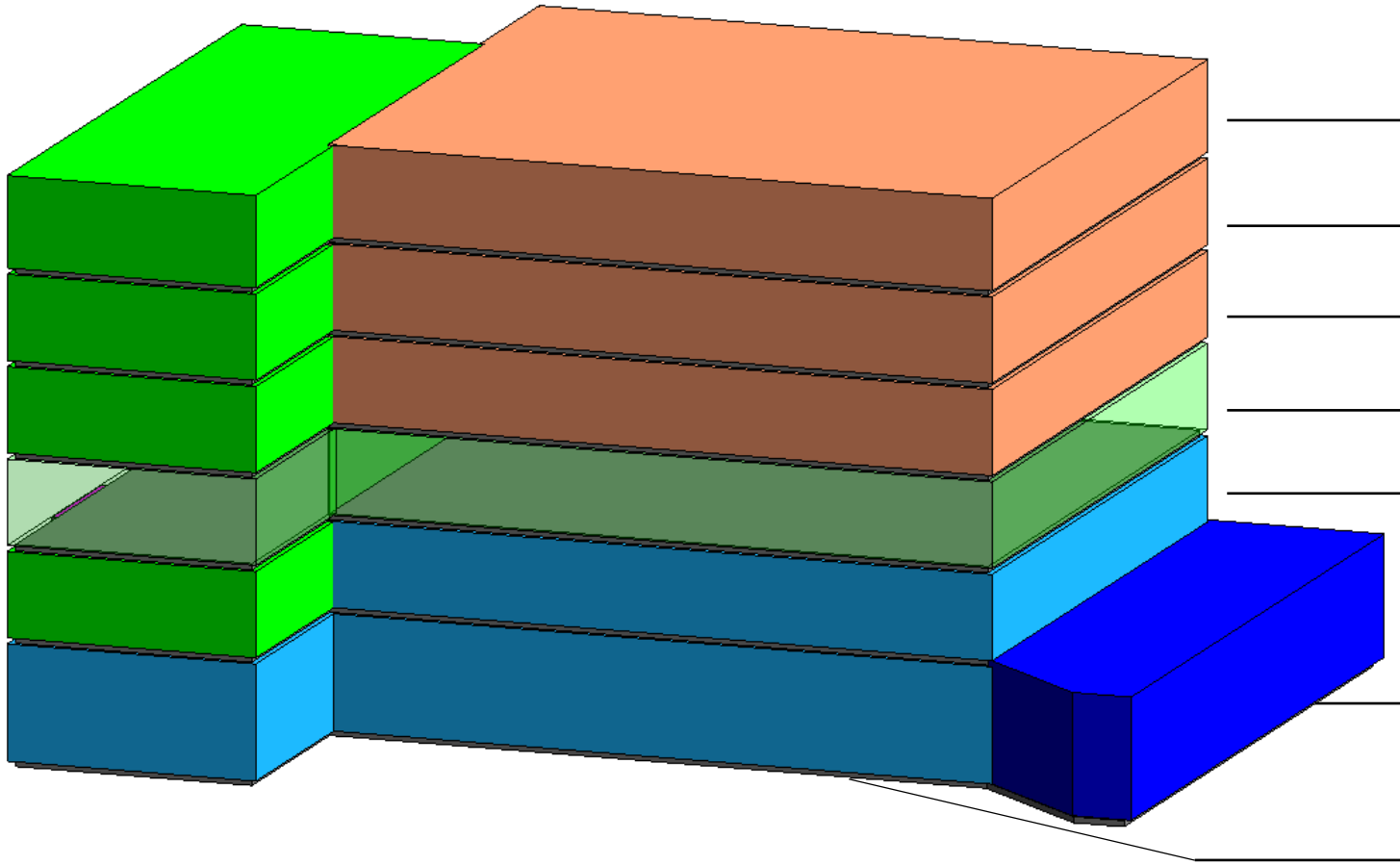
COM "Shell"
15,000 GSF

COM Office
4400 GSF

Building Lobby /ACS Office
4400 GSF

Conceptual Building Stacking
(NW Perspective)

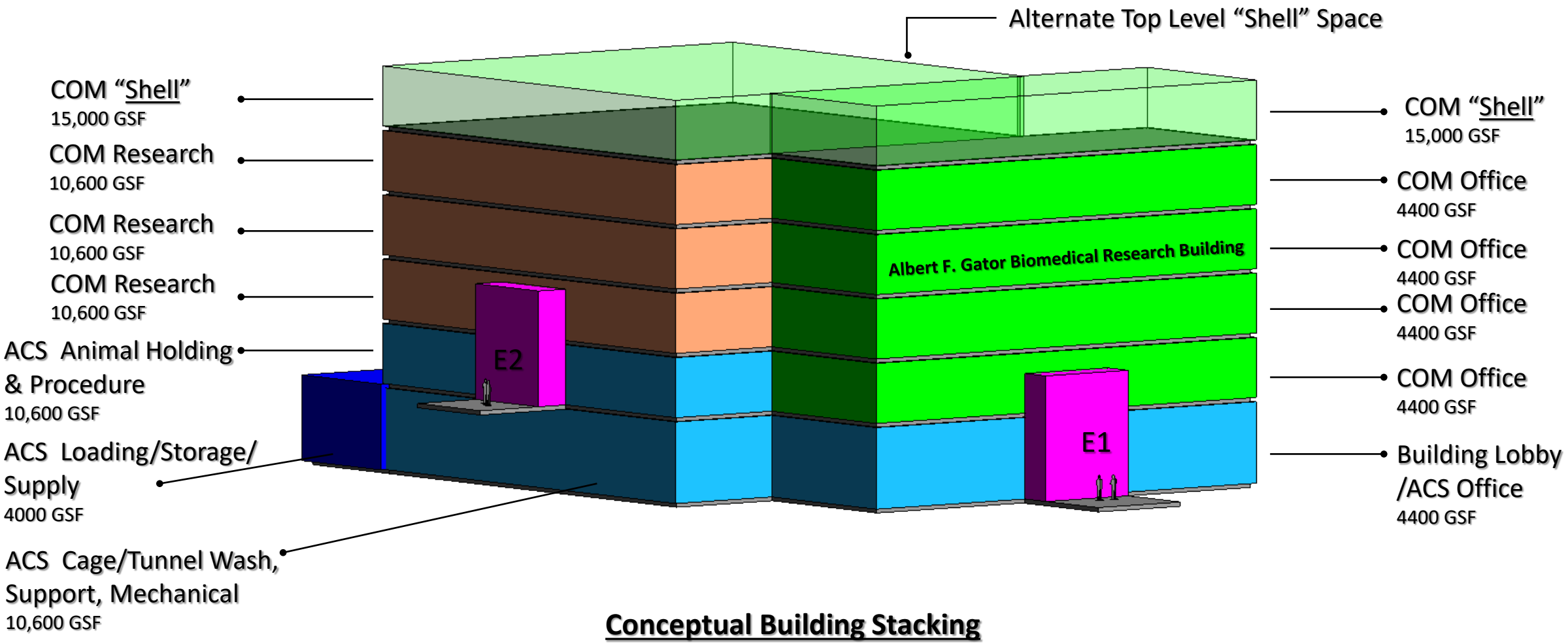
Proposed Biomedical Research Building



Conceptual Building Stacking

(SE Perspective)

Proposed Biomedical Research Building



Conceptual Building Stacking

(NW Perspective)

Parking and Vehicular Impact:

- 46 parking spaces will be impacted.
- Gated receiving /loading will be built on the south portion of this facility, primarily for the ACS one end, but also on a separate entrance for the balance of the building.

Tree Impacts

- There will be a complete survey of this land with any trees to be impacted and will be presented during the ASD phase.
- Complete site survey of the trees and topographicals will be performed immediately after the selection of the Professionals

Questions?

UNIVERSITY OF FLORIDA

SIGMA CHI FRATERNITY

LAKES, VEGETATION, AND LANDSCAPE COMMITTEE REVIEW

MARCH 12, 2020

SIGMA CHI FRATERNITY

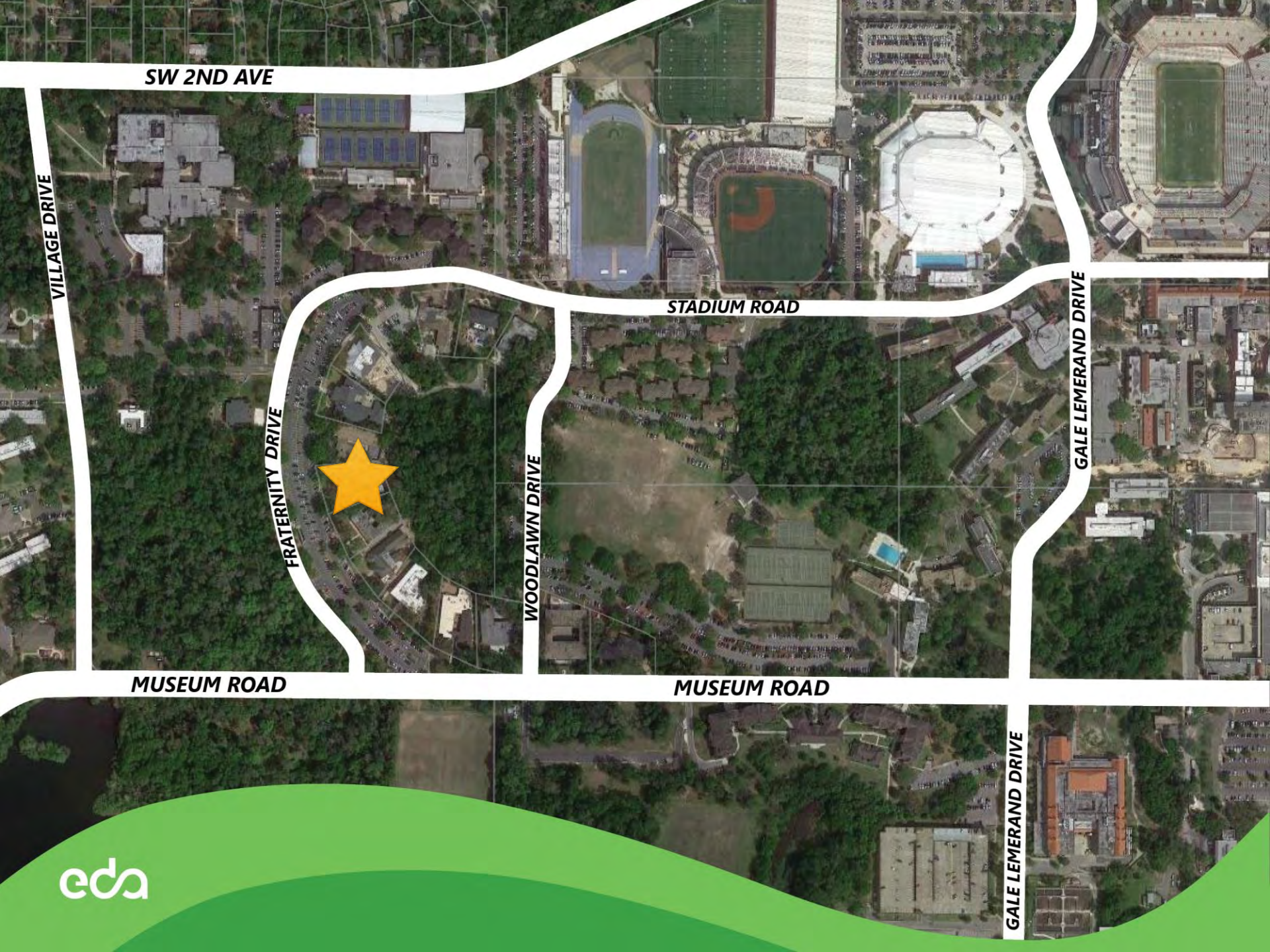
Location:
611 Fraternity Drive, Gainesville, FL 32603

Project:
New Construction - Fraternity House

- 2 Stories with Basement
- 23,400 Square Feet
- Brick with Limestone exterior on metal studs

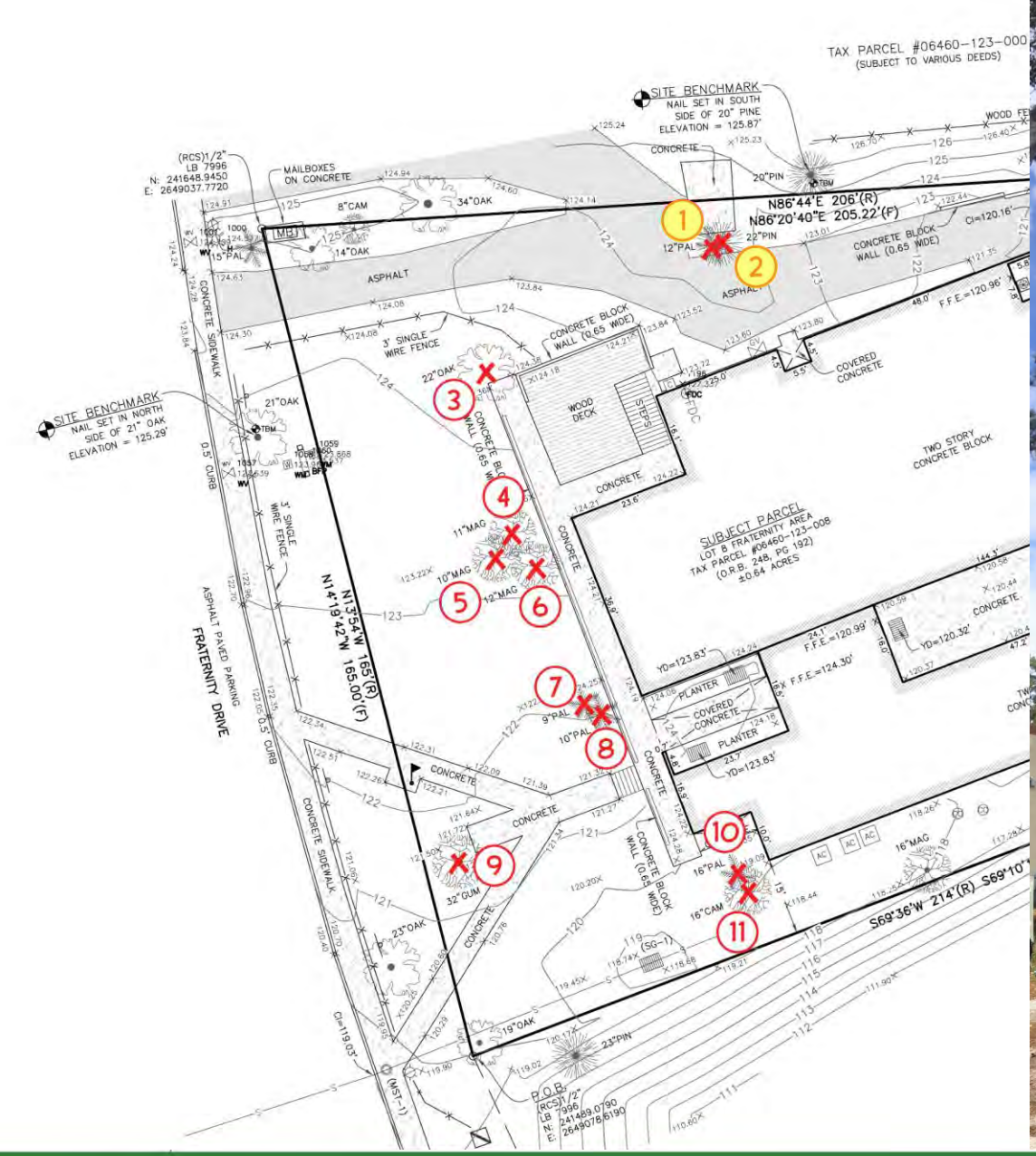
Budget:
$7.3 to $8.5 million

Construction Schedule:
May 2021 – Aug. 2022


SW 2ND AVE
VILLAGE DRIVE
FRATERNITY DRIVE
STADIUM ROAD
WOODLAWN DRIVE
GALE LEMERAND DRIVE
MUSEUM ROAD
MUSEUM ROAD
GALE LEMERAND DRIVE


FRATERNITY DRIVE
WOODLAWN DRIVE


TAX PARCEL #06460-123-000
(SUBJECT TO VARIOUS DEEDS)
SITE BENCHMARK
NAIL SET IN SOUTH
SIDE OF 20" PINE
ELEVATION = 125.87'
SITE BENCHMARK
NAIL SET IN NORTH
SIDE OF 21" OAK
ELEVATION = 125.29'
SUBJECT PARCEL
LOT B FRATERNITY AREA
TAX PARCEL #06460-123-008
(O.R.B. 248, PG 192)
±0.64 ACRES
TWO STORY
CONCRETE BLOCK
FRATERNITY DRIVE
ASPHALT PAVED PARKING
ASPHALT PAVEMENT
N86°44'E 206'(R)
N86°20'40"E 205.22'(F)
N13°54'W 165'(R)
N14°19'42"W 165.00'(F)
S19°59'E 103.35'(R)
S20°24'43"E 103.35'(F)
S69°10'17"W 214.00'(F)
S19°50'E 100.85'(R)
S20°29'40"E 100.72'(F)
(RCS)1/2"
LB 7996
N: 241648.9450
E: 2649037.7720
(NDS)
LB 7996
N: 241662.0190
E: 2649242.5970
(RCS)1/2"
LB 7996
N: 241565.1950
E: 2649278.6330
(RCS)1/2"
LB 7996
N: 241489.0790
E: 2649078.6190
P.O.B.
WOOD FENCE
CHAINLINK FENCE
2' CURB & GUTTER
0.5' CURB
CONCRETE SIDEWALK
CONCRETE BLOCK WALL (0.65 WIDE)
3' SINGLE WIRE FENCE
MAILBOXES ON CONCRETE
COVERED CONCRETE
WOOD DECK
STEPS
PLANTER
FENCE CORNER
GRINDER
13
engineers • surveyors • planners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CONCRETE
TWO STORY
CONCRETE BLOCK
CONCRETE
PLANTER
F.F.E.=120.96'
F.F.E.=120.99'
F.F.E.=124.30'
YD=123.83'
YD=120.32'
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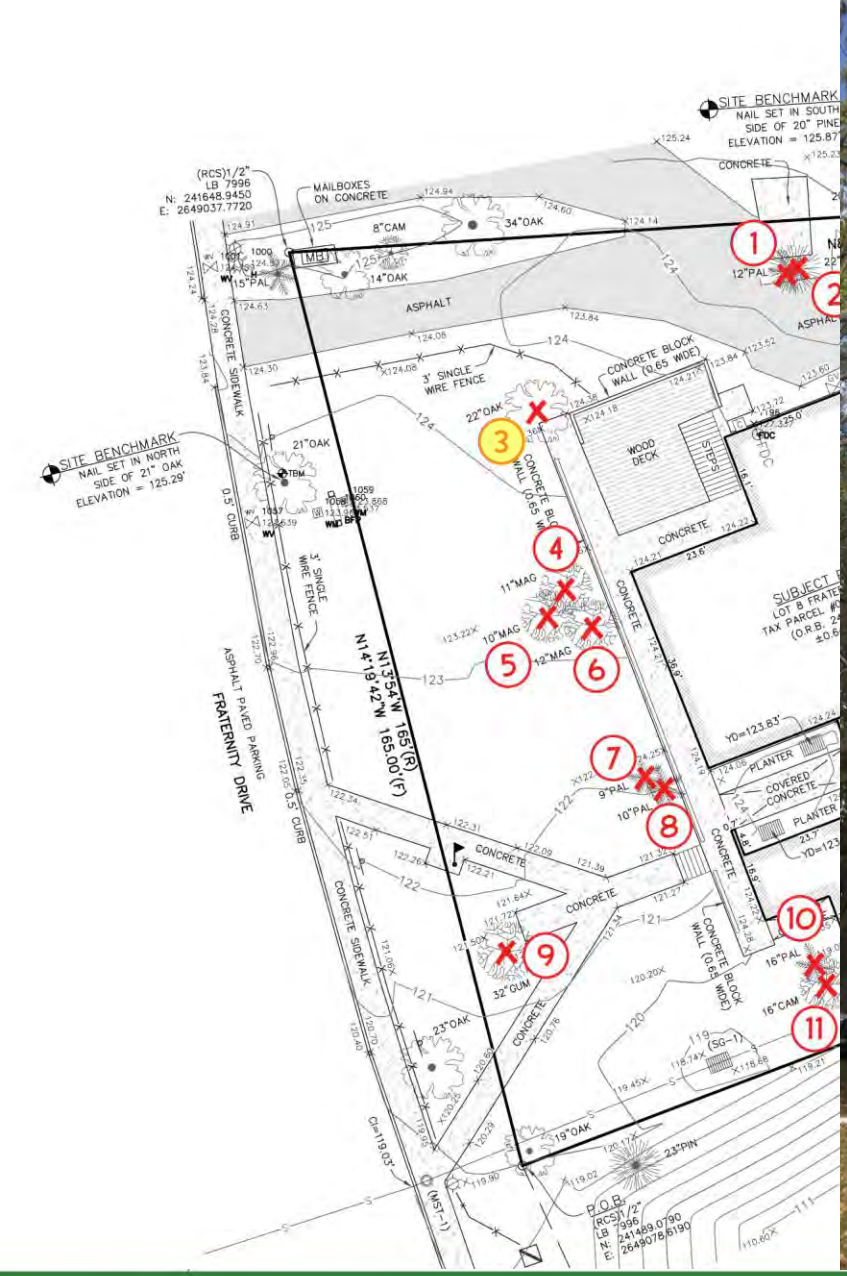
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LB 7996
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ASPHALT
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3' SINGLE WIRE FENCE
CONCRETE BLOCK WALL (0.65' WIDE)
WOOD DECK
SUBJECT
LOT B FRATE
TAX PARCEL #
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N13°54'W 165'(R)
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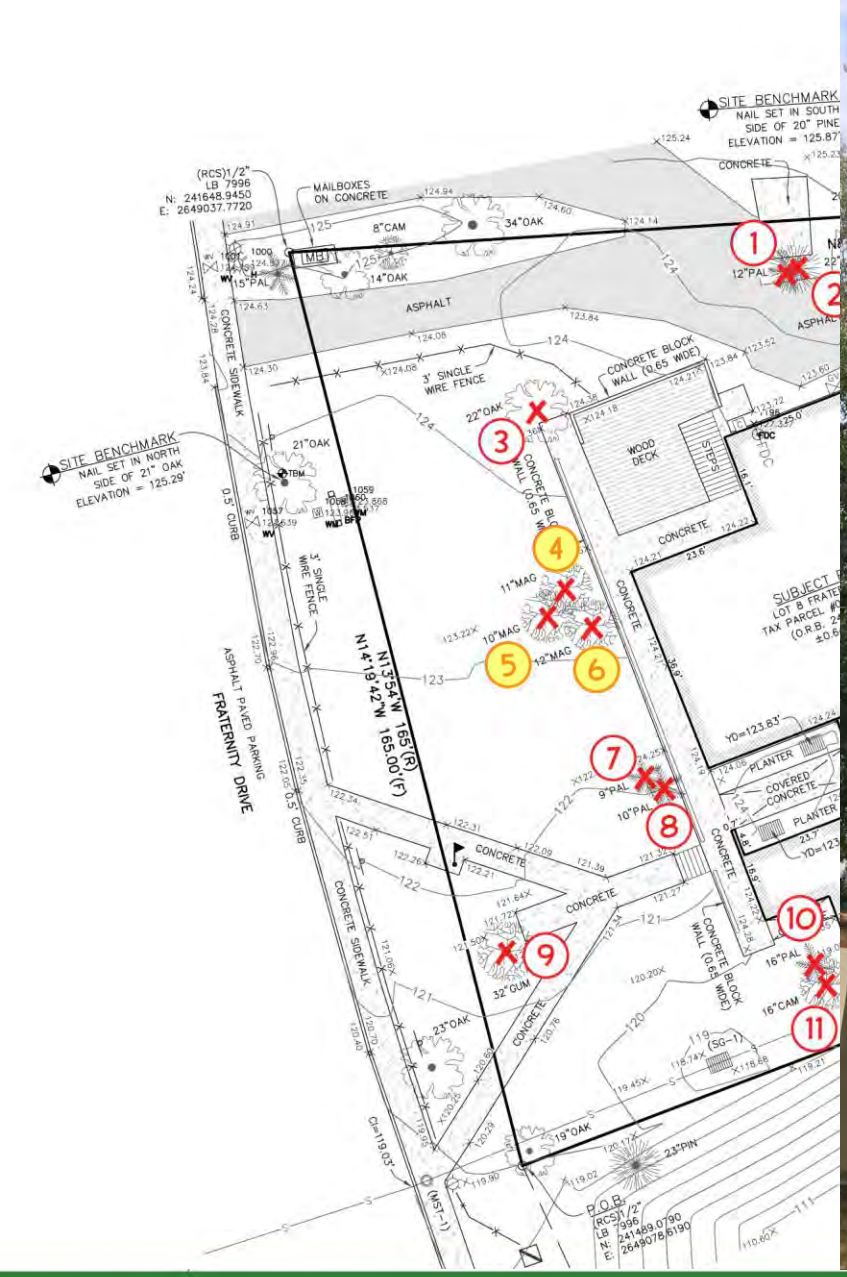
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15"PAL
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3' SINGLE WIRE FENCE
21"OAK
22"OAK
CONCRETE BLOCK WALL (0.65' WIDE)
WOOD DECK
CONCRETE
12"PAL
11"MAG
10"MAG
12"MAG
9"PAL
10"PAL
16"PAL
16"CAM
32"GUM
23"OAK
19"OAK
23"PIN
PLANTER
COVERED CONCRETE
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TAX PARCEL #
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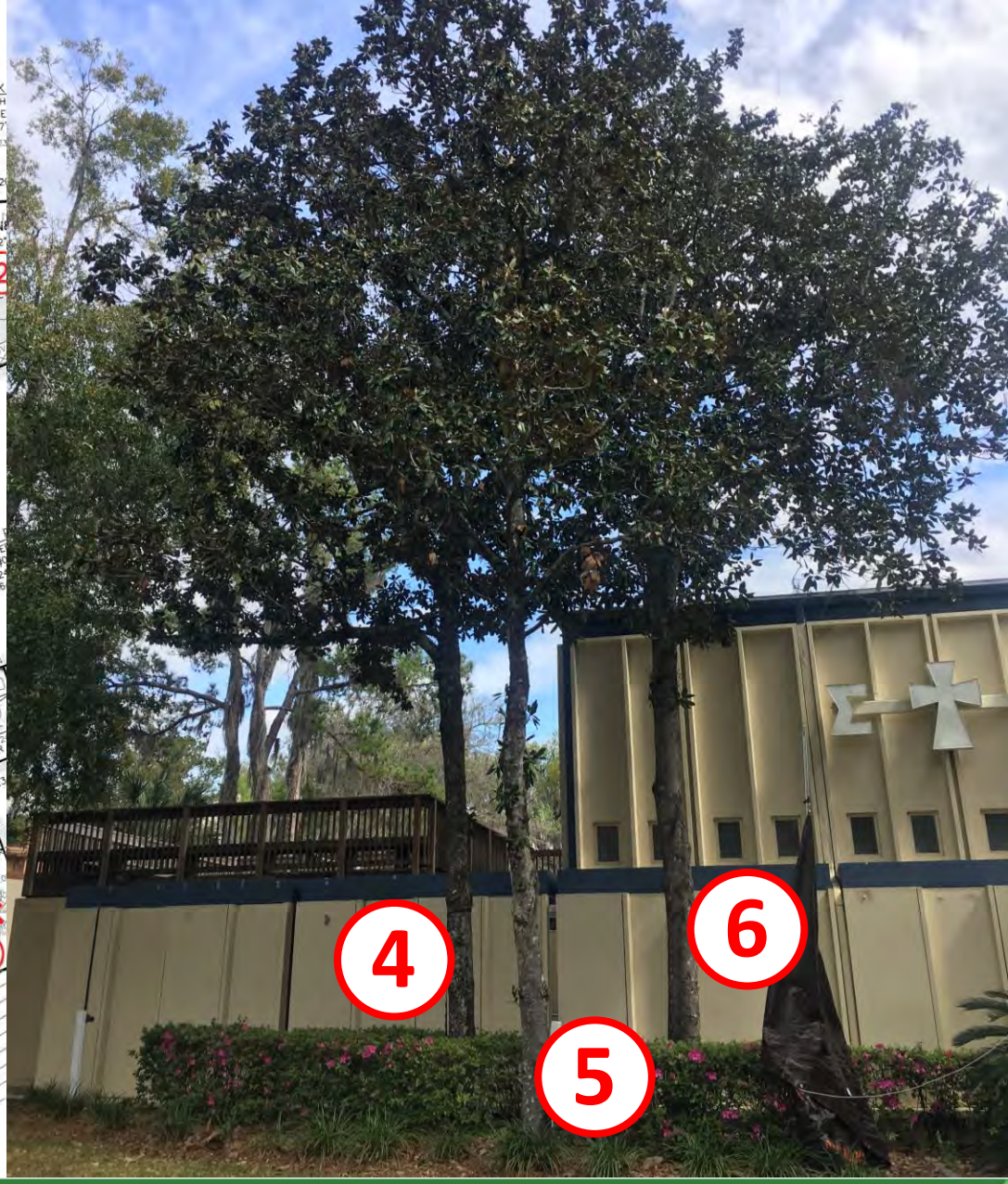
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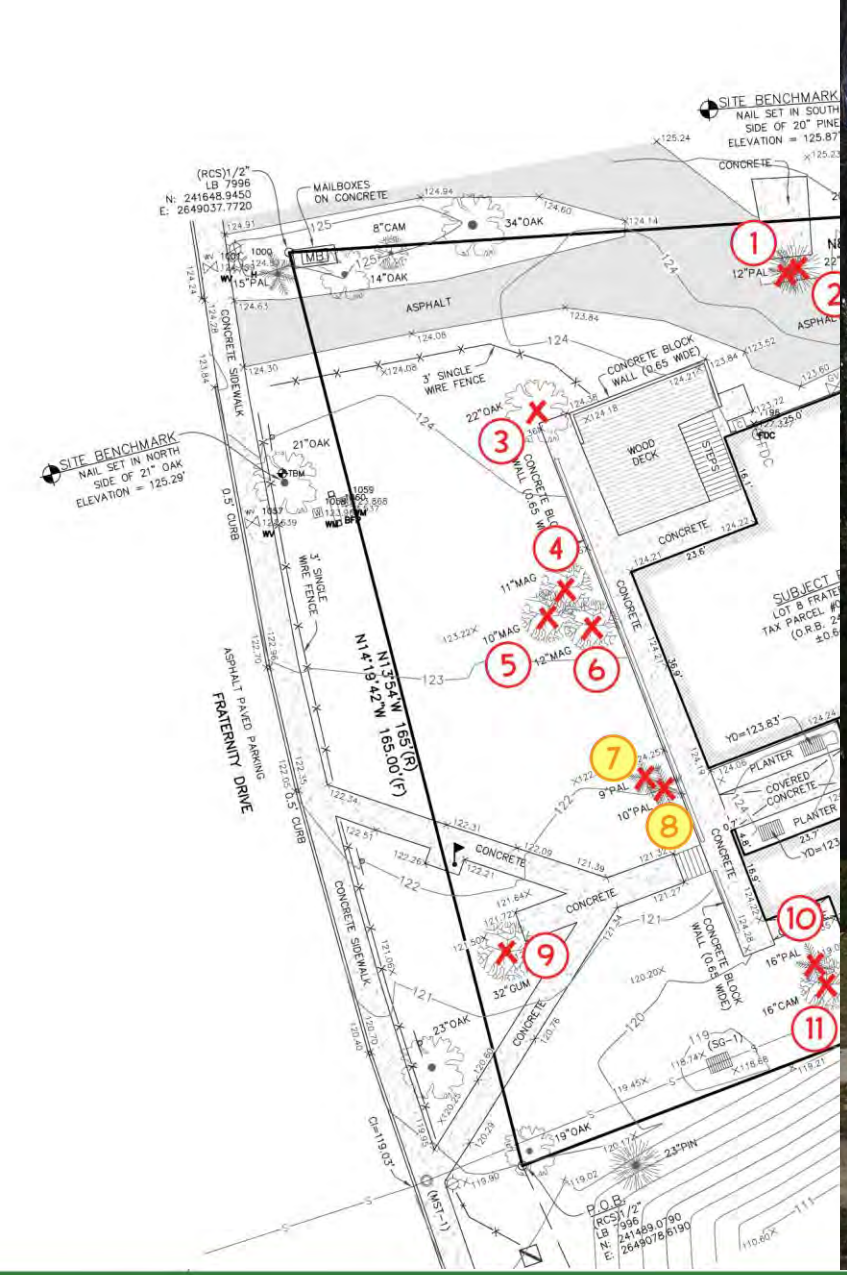
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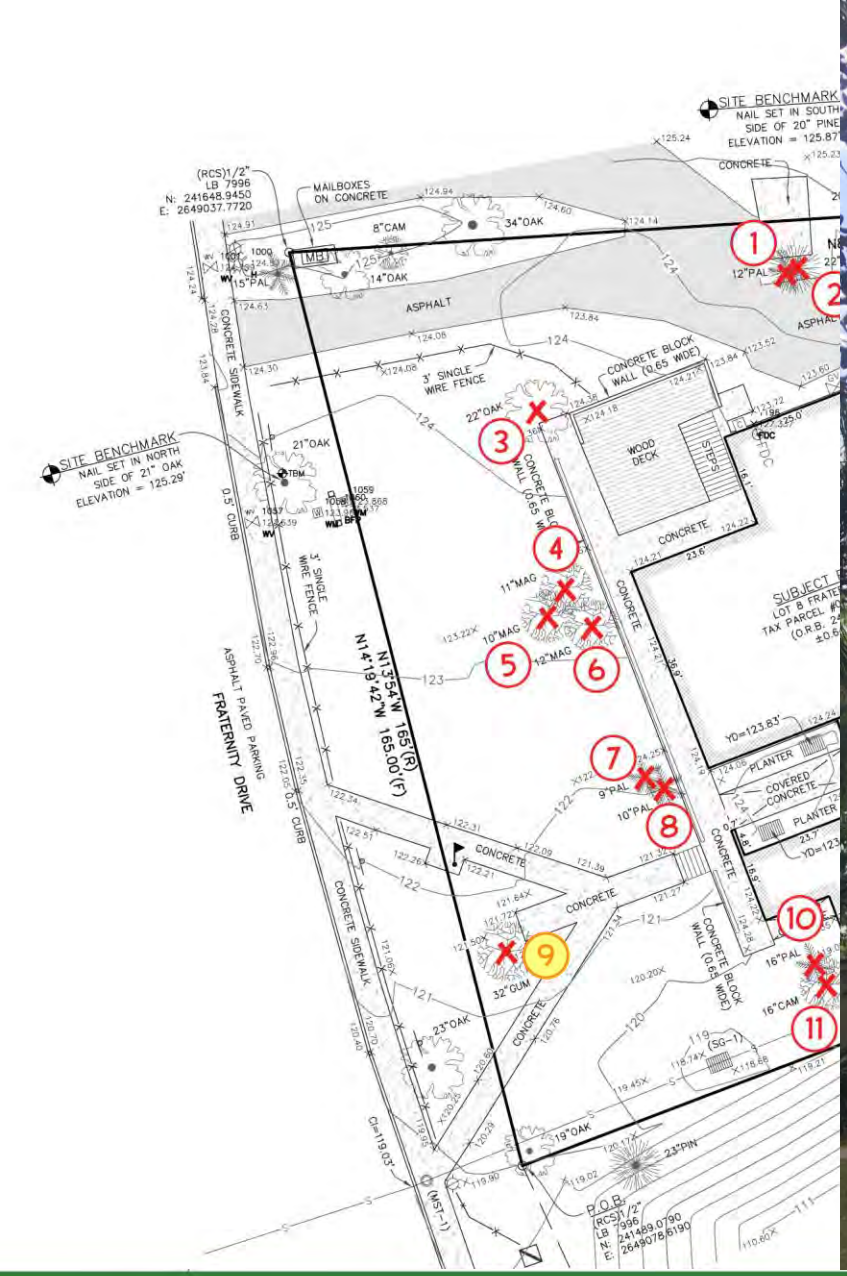
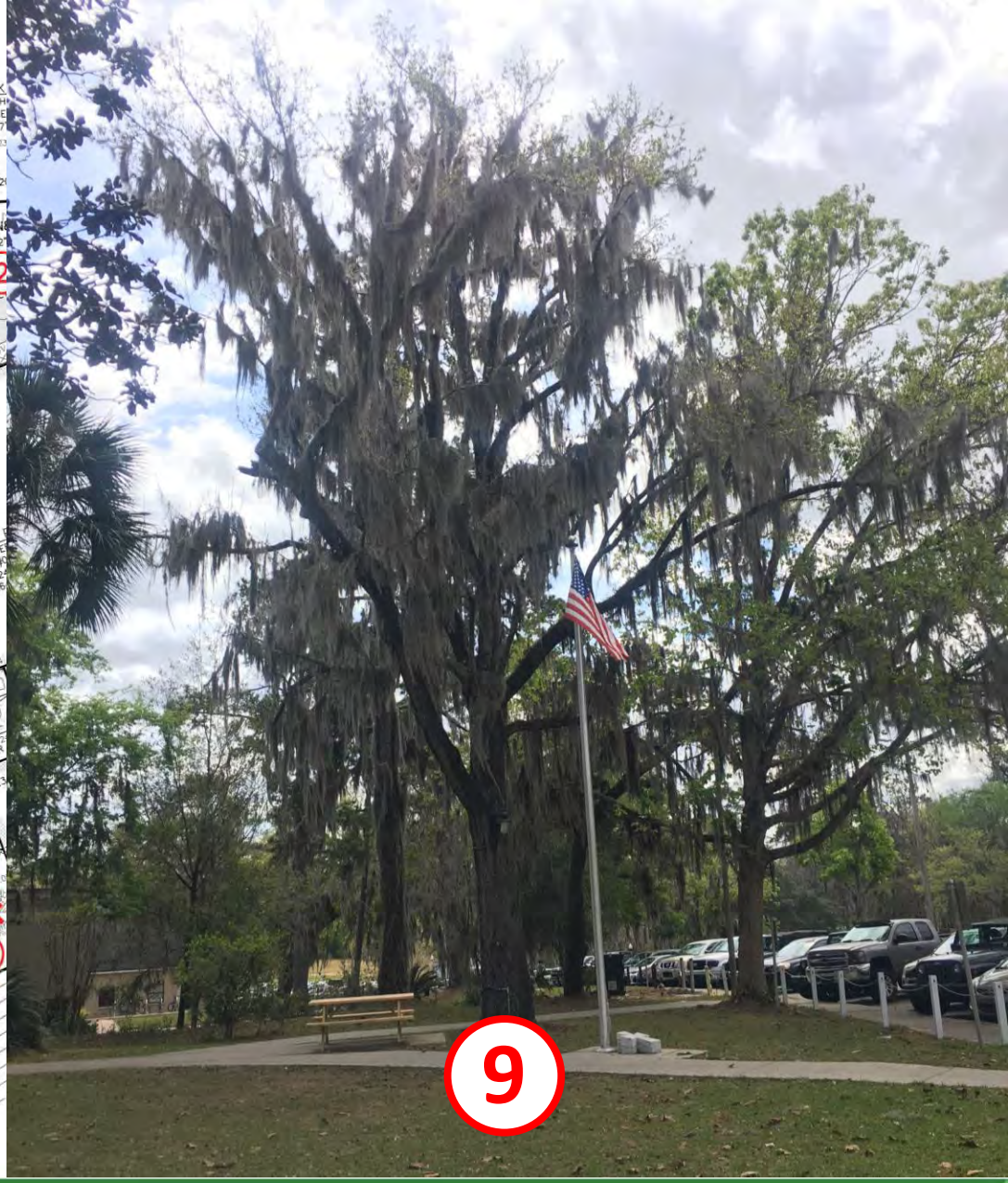
5
6
7
8
9
10
11
12"PAL
14"OAK
15"PAL
34"OAK
8"CAM
22"OAK
21"OAK
11"MAG
10"MAG
12"MAG
9"PAL
10"PAL
32"GUM
23"OAK
19"OAK
23"PIN
16"PAL
16"CAM


7
8


SITE BENCHMARK
NAIL SET IN SOUTH
SIDE OF 20" PINE
ELEVATION = 125.87'
SITE BENCHMARK
NAIL SET IN NORTH
SIDE OF 21" OAK
ELEVATION = 125.29'
(RCS)1/2"
LB 7996
N: 241648.9450
E: 2649037.7720
MAILBOXES
ON CONCRETE
ASPHALT
CONCRETE
WOOD
DECK
3' SINGLE
WIRE FENCE
CONCRETE BLOCK
WALL (0.65 WIDE)
0.5' CURB
CONCRETE SIDEWALK
ASPHALT PAVED PARKING
FRATERNITY DRIVE
N13°54'W 165'(R)
N14°19'42"W 165.00'(F)
SUBJECT
LOT B FRATE
TAX PARCEL #
(O.R.B. 2
±0.6
PLANTER
COVERED
CONCRETE
8"CAM
34"OAK
14"OAK
15"PAL
22"OAK
21"OAK
11"MAG
10"MAG
12"MAG
9"PAL
10"PAL
32"GUM
23"OAK
19"OAK
23"PIN
12"PAL
16"PAL
16"CAM
P.O.B.
(RCS)1/2"
LB 7996
N: 241489.0790
E: 2649078.6190
1
2
3
4
5
6
7
8
9
10
11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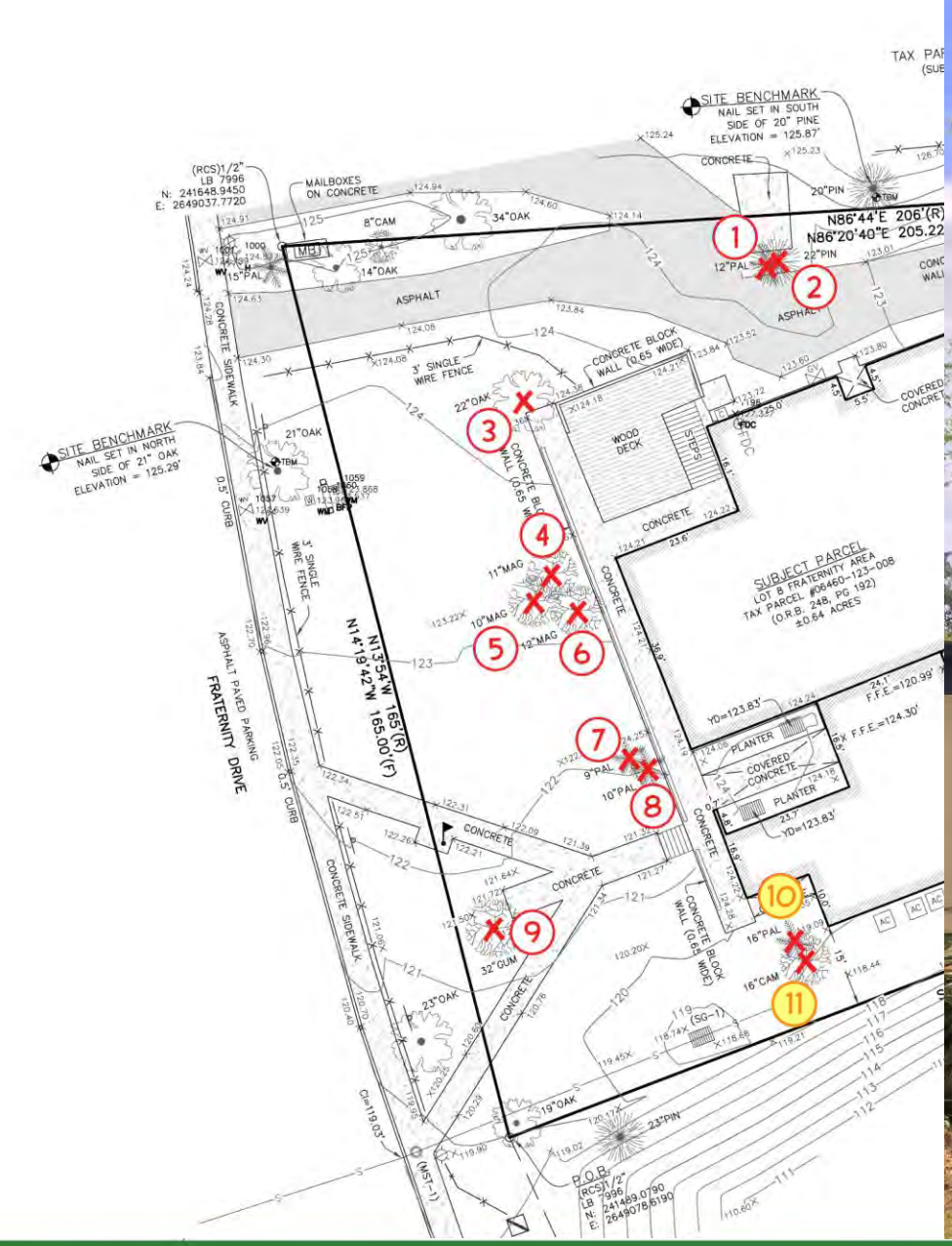
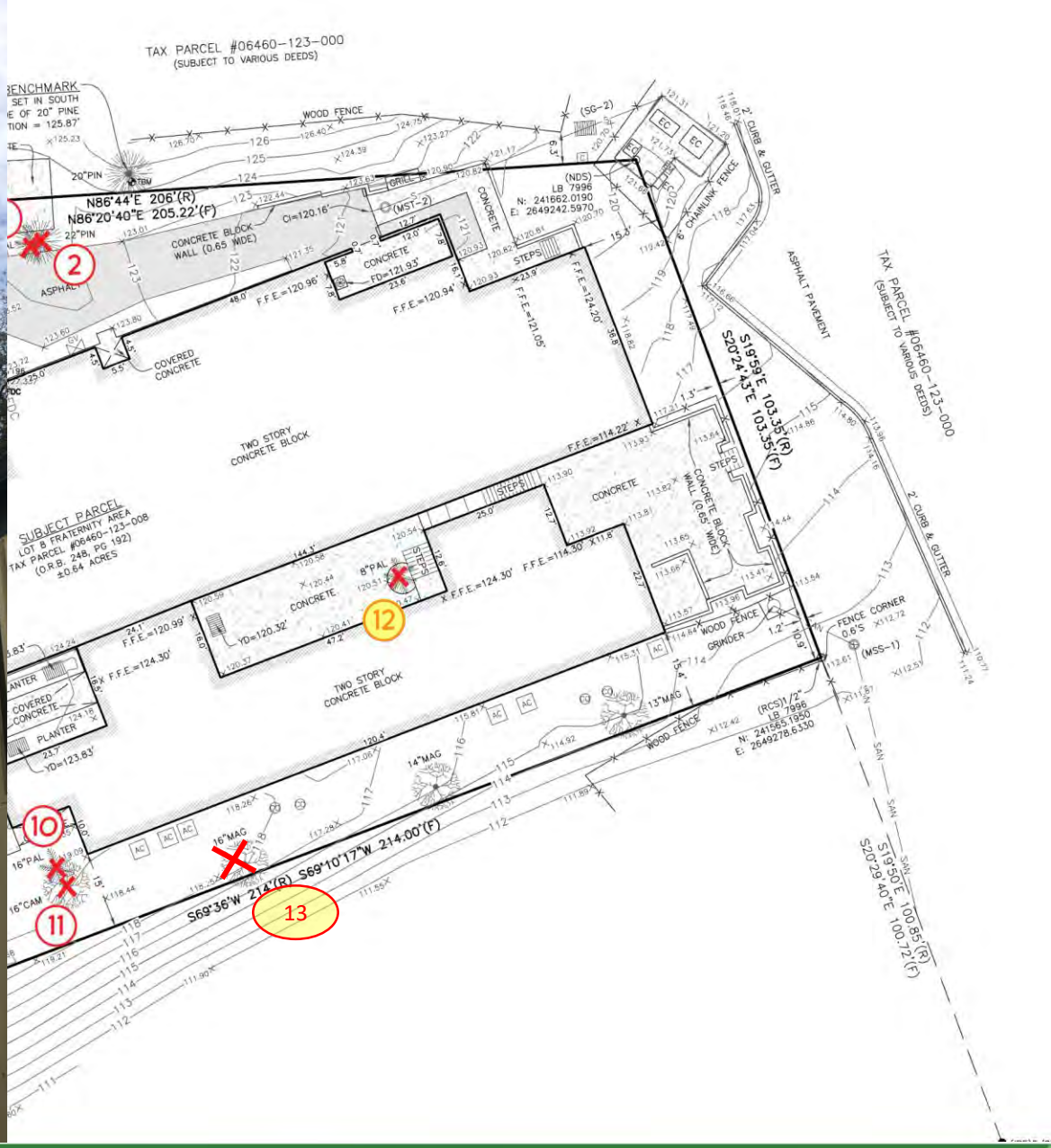

SITE BENCHMARK
NAIL SET IN SOUTH SIDE OF 20" PINE
ELEVATION = 125.87'
SITE BENCHMARK
NAIL SET IN NORTH SIDE OF 21" OAK
ELEVATION = 125.29'
SUBJECT PARCEL
LOT B FRATERNITY AREA
TAX PARCEL #06460-123-008
(O.R.B. 248, PG 192)
±0.64 ACRES
FRATERNITY DRIVE
ASPHALT PAVED PARKING
N13°54'W 165'(R)
N14°19'42"W 165.00'(F)
N86°44'E 206'(R)
N86°20'40"E 205.22
WOOD DECK
PLANTER
COVERED CONCRETE
CONCRETE BLOCK WALL (0.65' WIDE)
3' SINGLE WIRE FENCE
MAILBOXES ON CONCRETE
P.O.B.
1
2
3
4
5
6
7
8
9
10
11


10
11


12


TAX PARCEL #06460-123-000
(SUBJECT TO VARIOUS DEEDS)
BENCHMARK
SET IN SOUTH
E OF 20" PINE
TION = 125.87'
20"PIN
N86°44'E 206'(R)
N86°20'40"E 205.22'(F)
22"PIN
2
ASPHALT
WOOD FENCE
CONCRETE BLOCK
WALL (0.65 WIDE)
Ci=120.16'
(MST-2)
CONCRETE
FD=121.93'
F.F.E.=120.96'
F.F.E.=120.94'
COVERED
CONCRETE
TWO STORY
CONCRETE BLOCK
SUBJECT PARCEL
LOT B FRATERNITY AREA
TAX PARCEL #06460-123-008
(O.R.B. 248, PG 192)
±0.64 ACRES
F.F.E.=114.22'
F.F.E.=124.30'
F.F.E.=114.30'
F.F.E.=124.20'
F.F.E.=121.05'
YD=120.32'
8"PAL
12
STEPS
CONCRETE
WOOD FENCE
GRINDER
FENCE CORNER
0.6'S
(MSS-1)
(SG-2)
(NDS)
LB 7996
N: 241662.0190
E: 2649242.5970
6' CHAINLINK FENCE
2' CURB & GUTTER
ASPHALT PAVEMENT
S19°59'E 103.35'(R)
S20°24'43"E 103.35'(F)
TAX PARCEL #06460-123-000
(SUBJECT TO VARIOUS DEEDS)
2' CURB & GUTTER
PLANTER
COVERED
CONCRETE
PLANTER
YD=123.83'
F.F.E.=124.30'
TWO STORY
CONCRETE BLOCK
14"MAG
13"MAG
(RCS)1/2"
LB 7996
N: 241565.1950
E: 2649278.6330
10
16"PAL
16"CAM
11
16"MAG
S69°36'W 214'(R) S69°10'17"W 214.00'(F)
13
S19°50'E 100.85'(R)
S20°29.40"E 100.72'(F)

PROPOSED TREE MITIGATION

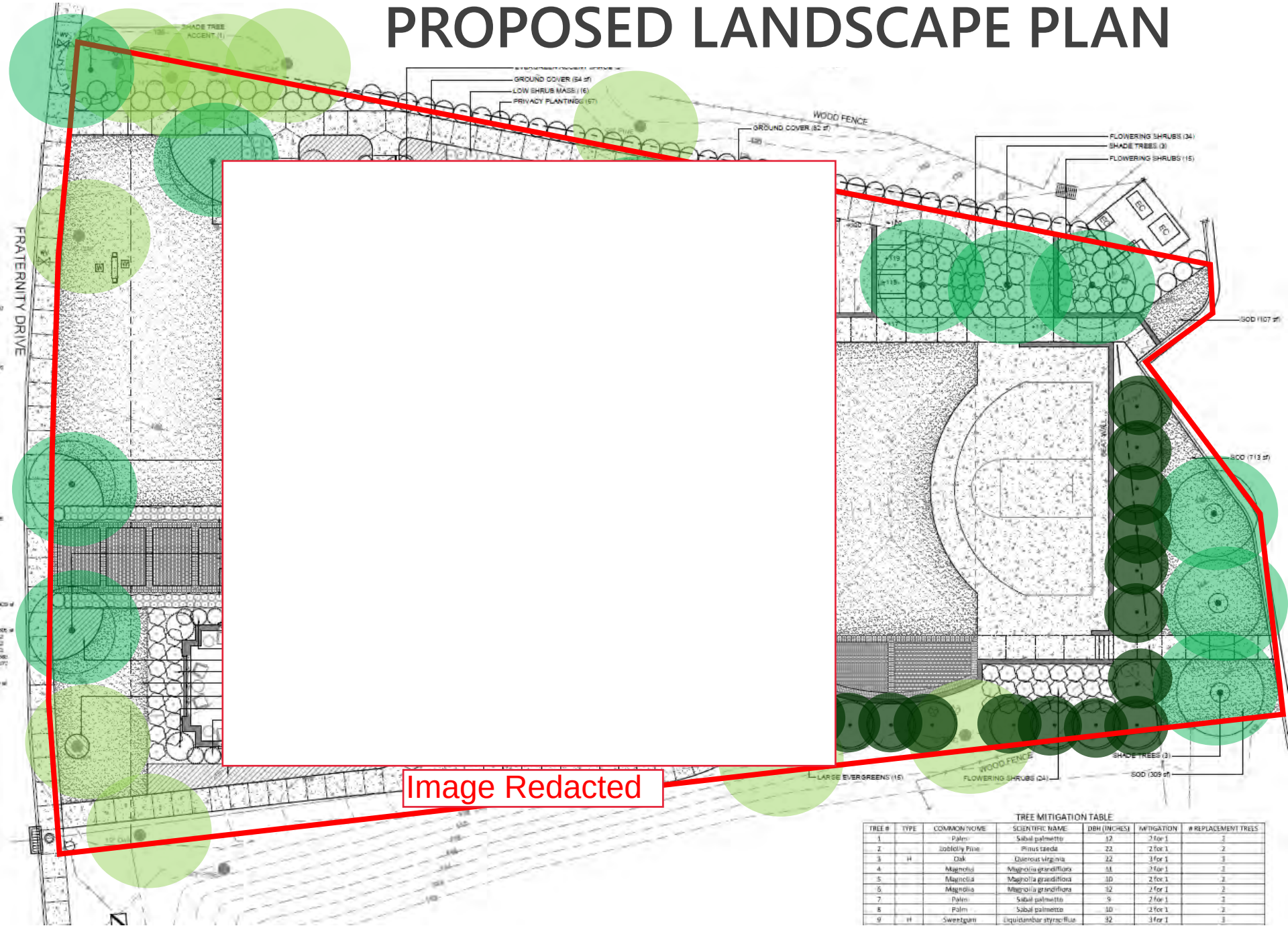
Tree #	Type	Common Name	Scientific Name	DBH (in)	Mitigation
1		Palm	Sabal palmetto	12	2 for 1
2		Loblolly Pine	Pinus taeda	22	2 for 1
3	H	Oak	Quercus virginiana	22	3 for 1
4		Magnolia	Magnolia grandiflora	11	2 for 1
5		Magnolia	Magnolia grandiflora	10	2 for 1
6		Magnolia	Magnolia grandiflora	12	2 for 1
7		Palm	Sabal palmetto	9	2 for 1
8		Palm	Sabal palmetto	10	2 for 1
9	H	Sweetgum	Liquidambar styraciflua	32	3 for 1
10		Palm	Sabal palmetto	16	2 for 1
11	E	Camphor	Cinnamomum camphora	16	Exempt
12		Palm	Sabal palmetto	8	2 for 1
13		Magnolia	Magnolia grandiflora	16	2 for 1
Total Number of Replacement Trees Required					**26**

** Mitigation / Number of replacement trees (minimum 8ft. Height and 2in. Caliper)

H = Heritage Tree 20" DBH or more, except for Water Oaks, Laurel Oaks, Loblolly Pines, Sugarberry, and Sweetgums that shall be classified as heritage trees at 30" DBH

E = Invasive Exotic per Florida Exotic Pest Plant Council (FLEPPC) 2019 List of Invasive Plant Species.

PROPOSED LANDSCAPE PLAN



TREE MITIGATION TABLE

TREE #	TYPE	COMMON NAME	SCIENTIFIC NAME	DBH (INCHES)	MITIGATION	# REPLACEMENT TREES
1		Palm	Sabal palmetto	12	2 for 1	2
2		Loblolly Pine	Pinus taeda	22	2 for 1	2
3	H	Oak	Quercus virginia	22	3 for 1	3
4		Magnolia	Magnolia grandiflora	14	2 for 1	2
5		Magnolia	Magnolia grandiflora	10	2 for 1	2
6		Magnolia	Magnolia grandiflora	12	2 for 1	2
7		Palm	Sabal palmetto	9	2 for 1	2
8		Palm	Sabal palmetto	10	2 for 1	2
9	H	Sweetgum	Liquidambar styraciflua	32	3 for 1	3

Arborist Evaluation Report
for
Alpha Delta Pi
831 W. Panhellenic Drive
University of Florida, Gainesville, FL 32601

March 4, 2020

Submitted to:
Zamia Design Landscape Architecture
Andrea Zable & Larry Teague
(407) 810-2653
azable@zamiadesign.com

Submitted by:
Peter Fastuca
ISA Certified Arborist FL-3968A
(516) 526-0949
3217 NW 17th Street
Gainesville, FL 32605

Introduction: Alpha Delta Pi is constructing a new sorority house, located at 831 West Panhellenic Drive, Gainesville, FL 32601. There are five trees on the west side of the property that were to be preserved during construction. The purpose of this report is to assess the health of these five trees. This was done through visual tree assessments of the (2) Live Oak (*Quercus virginana*) and (3) Magnolia (*Magnolia grandiflora*).

Tree #1:
Magnolia (*Magnolia grandiflora*). Multi-stem. 12-23" DBH, ~ 37' Tall

Current Conditions: This tree is located on the southwest side of the building. Minor tip dieback in the crown (~5%) but otherwise, canopy seems to be in good health. The tree is adjacent to sidewalk and has compacted soil possibly restricting root growth. There is bark inclusion present on the trunk leaning east towards the building along with a wound and small cavity caused by two limbs growing into one another. This section of the tree shows signs of higher failure likelihood. Other branch unions seem to be strong and have good structure. Overall this tree is in fair condition.

Discussion: At time of assessment, the tree protection zone (TPZ) was nonexistent. There is construction debris and materials along with portable restrooms within the tree's drip line. This can cause long term impacts to the tree's health.

Recommendation: Reestablish the TPZ to prevent further damage. Consider removing the most easterly facing trunk to help mitigate partial failure likelihood, and risk to building.

Tree #1

Tree #2:
Magnolia (*Magnolia grandiflora*). Co-dominant stem. 18-19" DBH, ~ 48' Tall

Current Conditions: This tree is located on the southwest side of the building. Tree canopy appears healthy, with no signs of pests or disease. No major signs of defects, however, there is a small amount of decay on old pruning wounds. This tree has a co-dominate trunk, which is typically a less sturdy tree structure, but this trunk union appears to be strong. Overall, this tree is in good condition.

Discussion: At time of assessment, the tree protection zone (TPZ) was nonexistent. There is construction debris and materials along with portable restrooms within the trees drip line. This can cause long term impacts to the tree's health.

Recommendation: The TPZ should be reestablished as soon as possible. Due to the co-dominate trunk, cabling and bracing this tree could be considered in the future to help mitigate the risk of failure.

Tree #2

Tree #3:
Live Oak (*Quercus virginana*). 20" DBH, ~ 39' Tall

Current Condition: This tree is located on the west side of the building. There are no signs of pest or disease. The structure of this tree is decurrent with as strong foundation. There is minor bark inclusion present on three branches in the canopy. No signs of decay, but there are a small number of dead branches throughout the tree, which are not a cause for concern (and are likely due to the tree's self-pruning). Overall this tree is in good condition.

Discussion: The TPZ, although present is very small and only protects about ¼ of the root system. There is heavy machinery in operation nearby which may cause root damage.

Recommendation: If properly pruned and maintained in the future, this tree can be trained to grow in a way that does not interfere with the building. The canopy can be lifted by removing some of the smaller (4" or less) lower lateral branches. Structurally pruning this tree and clearing out the deadwood from it will help its overall structure, longevity, and aesthetics.

Tree #3

Tree #4:
Live Oak (*Quercus virginana*). 19” DBH, ~ 35’ Tall

Current Conditions: This tree is located on the west side of the building. It has recently been pruned and is the closest tree to the building out of the five. There are no signs of pest or disease, and it has minimal decay on old pruning wounds. This tree has decent structure but, the form is partially unbalanced due to past pruning. Otherwise, it has a healthy canopy. Overall, this tree is in good condition.

Discussion: The TZP for this tree is not large enough to protect the roots and help prevent soil compaction. This could result in root damage and cause the trees health to decline.

Recommendation: Due to the proximity to the building, this tree will have to be pruned in order to maintain clearance overtime. This will have to be done in a way to not further jeopardize the canopy’s structure.

Tree #4

Tree #5:
Magnolia (*Magnolia grandiflora*). 13” DBH, ~ 40’ Tall

Current Conditions: This tree is located in the northwest side of the building. There are no signs of decay, pests or disease. The structure is solid and growing with a strong central leader. The canopy looks healthy with no dieback. Overall this tree is in good condition.

Discussion: This tree shows no major visual defects. The TPZ seems to be adequate.

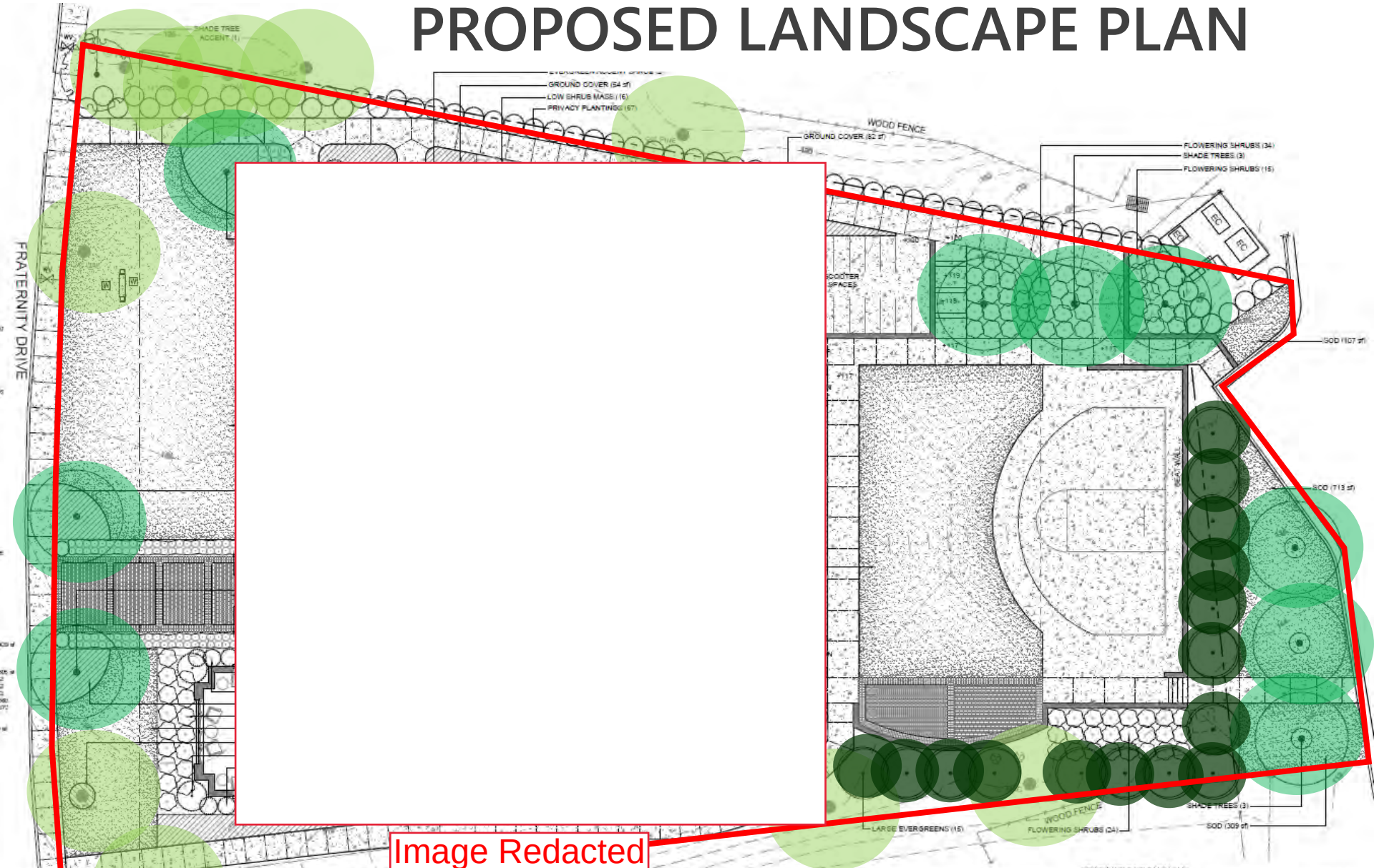
Recommendation: Routine maintenance over time to maintain the health of this tree.

Tree #5


Overall Recommendations: In addition to the individual recommendations for each tree, I suggest aerating the soil around all of the trees to help reduce soil compaction caused by construction impacts and improper TPZ. This should be done prior to landscape installation.

Peter Fastuca
ISA Certified Arborist
FL-3968A

PROPOSED LANDSCAPE PLAN



TREE MITIGATION TABLE

TREE #	TYPE	COMMON NAME	SCIENTIFIC NAME	DBH (INCHES)	MITIGATION	# REPLACEMENT TREES
1		Palm	Sabal palmetto	12	2 for 1	2
2		Loblolly Pine	Pinus taeda	22	2 for 1	2
3	H	Oak	Quercus virginia	22	3 for 1	3
4		Magnolia	Magnolia grandiflora	14	2 for 1	2
5		Magnolia	Magnolia grandiflora	10	2 for 1	2
6		Magnolia	Magnolia grandiflora	12	2 for 1	2
7		Palm	Sabal palmetto	9	2 for 1	2
8		Palm	Sabal palmetto	10	2 for 1	2
9	H	Sweetgum	Liquidambar styraciflua	32	3 for 1	3

UNIVERSITY OF FLORIDA

Campus Trail Master Plan

Committee Presentation

UF | UNIVERSITY of FLORIDA

CHW
Professional Consultants

PROJECT INTRODUCTION & HISTORY

Strategic Development Plan

December 2016

Transportation & Parking Strategic Plan

August 2018

Landscape Master Plan

October 2018

Housing Master Plan

April 2019

Campus Framework Plan

June 2019

Campus Wide Trails System

January 2020

PROJECT PROCESS OVERVIEW

Analysis & Base Development

Stakeholder Meeting #1
Present Analysis/Project & Group Charrette

January 2020

Conceptual Design & Framework

Draft Trails Concept Plan
Meet with UF PDC

January 2020

Stakeholder Meeting #2
Final Trails Concept Plan Presentation

February 2020

Trail Master Plan

Draft Trails Master Plan
For UF PDC & Stakeholders Review

February 2020

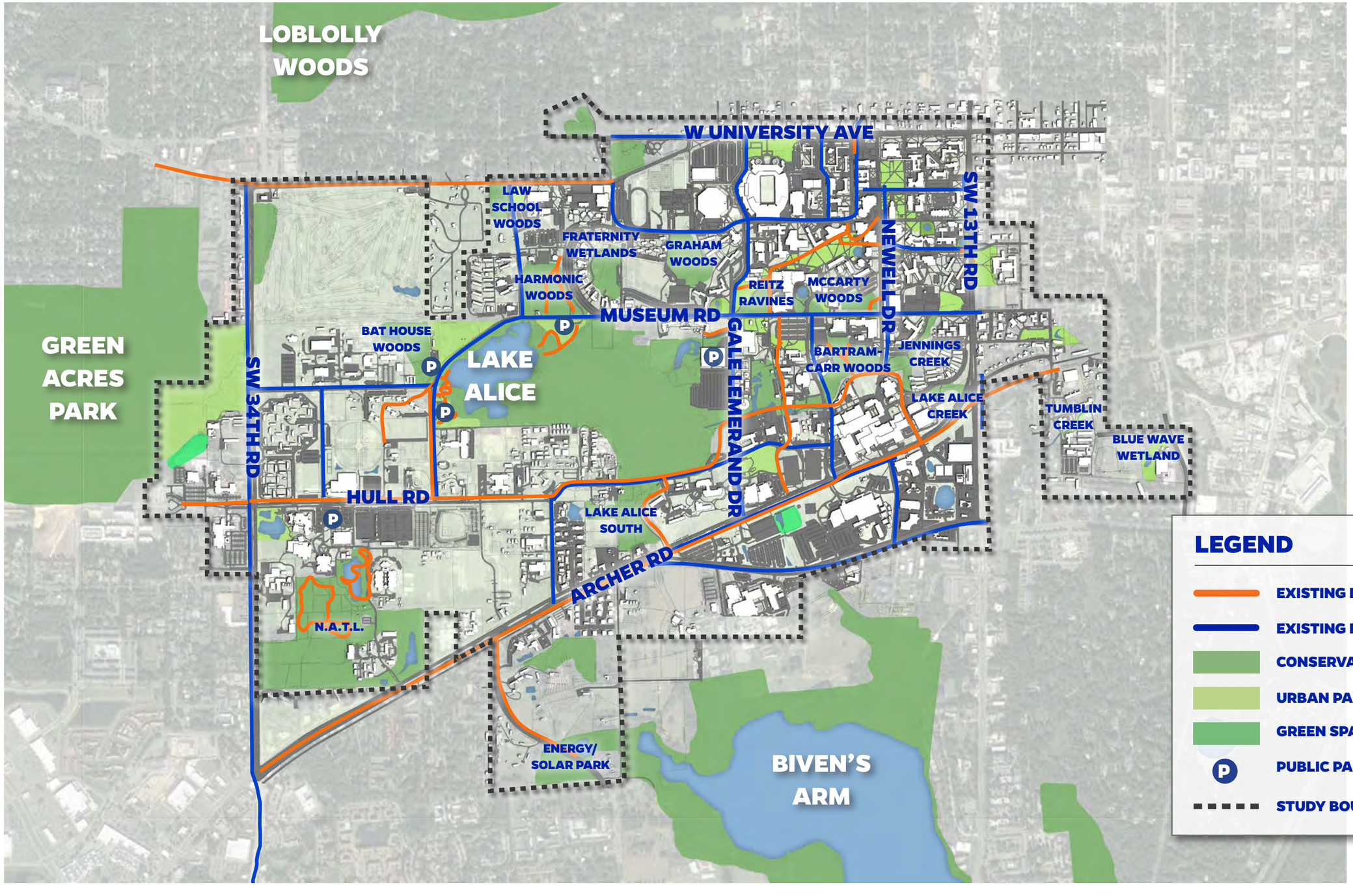
Committee Meetings
UF Committees

March 2020

Final Presentations

April 2020

EXISTING CAMPUS TRAILS & OPEN SPACE



STAKEHOLDER MEETING #1 - SUMMARY

- WAYFINDING & CONNECTIVITY
- ENVIRONMENTAL EDUCATION
- TRANSPORTATION & SAFETY
- CONSERVATION & ECOLOGICAL FUNCTION
- PEDESTRIANS & BICYCLES
- RESEARCH & ACADEMICS
- MAINTENANCE

PROJECT MISSION

CREATE A **COHESIVE TRAIL SYSTEM** THAT CELEBRATES AND ENCOURAGES USER INTERACTION WITH THE CAMPUS' UNIQUE ECOLOGICAL FEATURES WHILE PRIORITIZING **CONSERVATION MANAGEMENT.**

PROJECT GOALS

1. PROVIDE **PEDESTRIAN AND SHARED-USE CONNECTIONS** WHERE CURRENT GAPS EXIST TO LINK THE EXISTING AND FUTURE **OPEN SPACE AND CONSERVATION AREAS** OF CAMPUS AND THE SURROUNDING CITY OF GAINESVILLE.

2. PROVIDE **EDUCATIONAL SIGNAGE AND WAYFINDING DEVICES** TO GUIDE USERS THROUGH THE TRAILS SYSTEM.

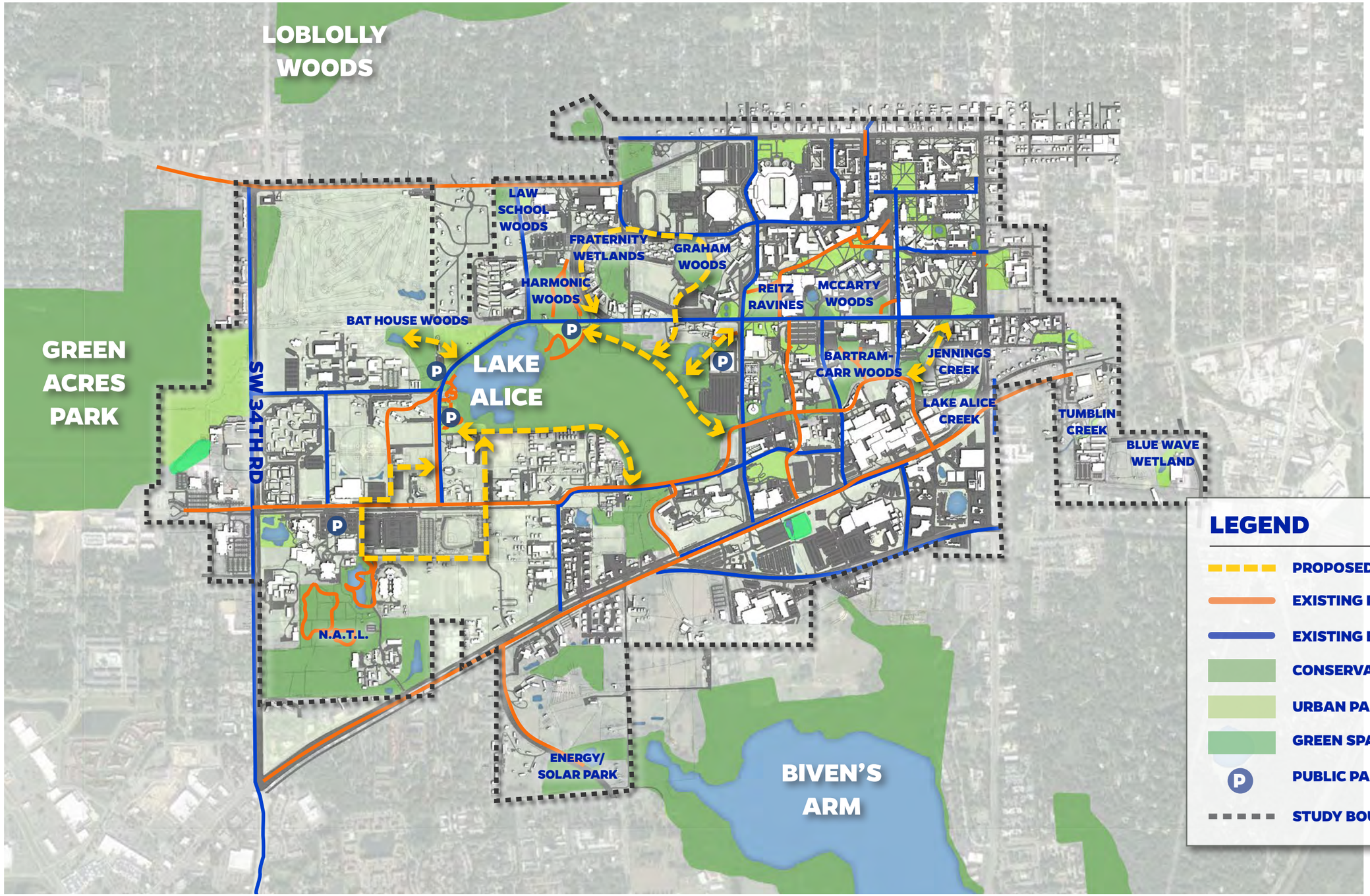
3. CREATE A SYSTEM WITH **SAFE AND ACCESSIBLE** TRAILS.

4. CELEBRATE NATURAL AESTHETICS WHILE BALANCING WITH THE PROTECTION OF EXISTING **ECOLOGICAL FUNCTIONS THROUGH STRATEGIC MAINTENANCE PRACTICES.**

5. **MAINTAIN AND ENHANCE** OPPORTUNITIES FOR **LEARNING & RESEARCH** WITHIN THE UNIVERSITY'S NATURAL AREAS.

6. ENSURE THE **LONG TERM SUCCESS** OF THE TRAIL SYSTEM THROUGH CONSIDERATION AND SELECTION OF **QUALITY, EASILY MAINTAINABLE MATERIALS** WHICH WILL STAND THE TEST OF TIME.

OPPORTUNITIES & CONNECTIONS MAP



DRAFT TRAILS MASTER PLAN

DRAFT TRAILS MASTER PLAN

LAKE ALICE & WEST CAMPUS

HARMONIC WOODS

FUTURE STUDENT HOUSING

DSIT

BAT HOUSES

LAKE ALICE

OVERLOOK, TYP.

BOARDWALK, TYP.

ATHLETICS

BASEBALL

CULTURAL PLAZA

BEE GARDEN

NATL

WILMOT GARDENS

0’ 250’ 500’ 1,000’

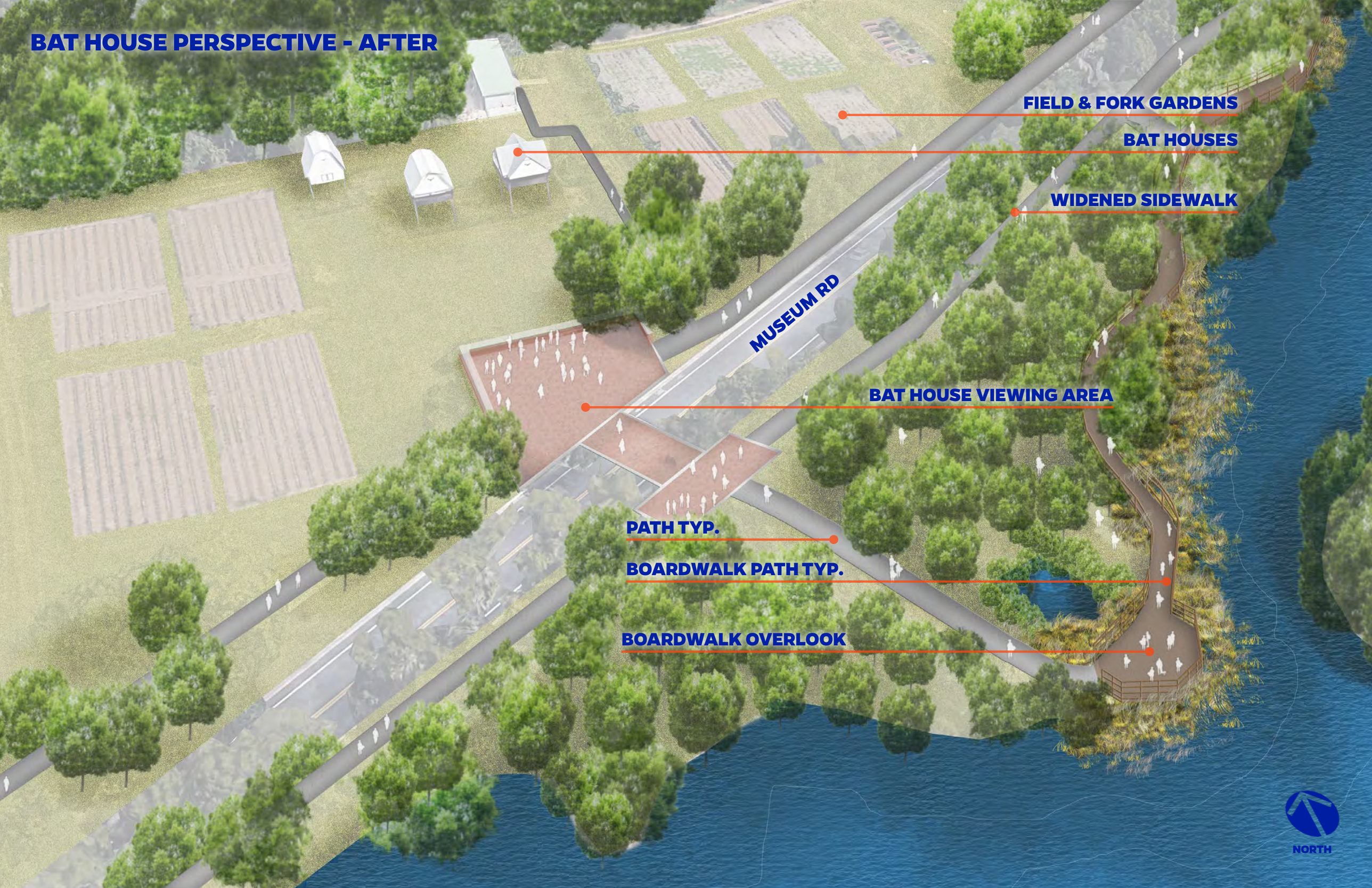
NORTH

LAKE ALICE PERSPECTIVE - BEFORE

LAKE ALICE PERSPECTIVE - AFTER

BAT HOUSE PERSPECTIVE - BEFORE

BAT HOUSE PERSPECTIVE - AFTER



RESEARCH BOAT RAMP PERSPECTIVE - BEFORE

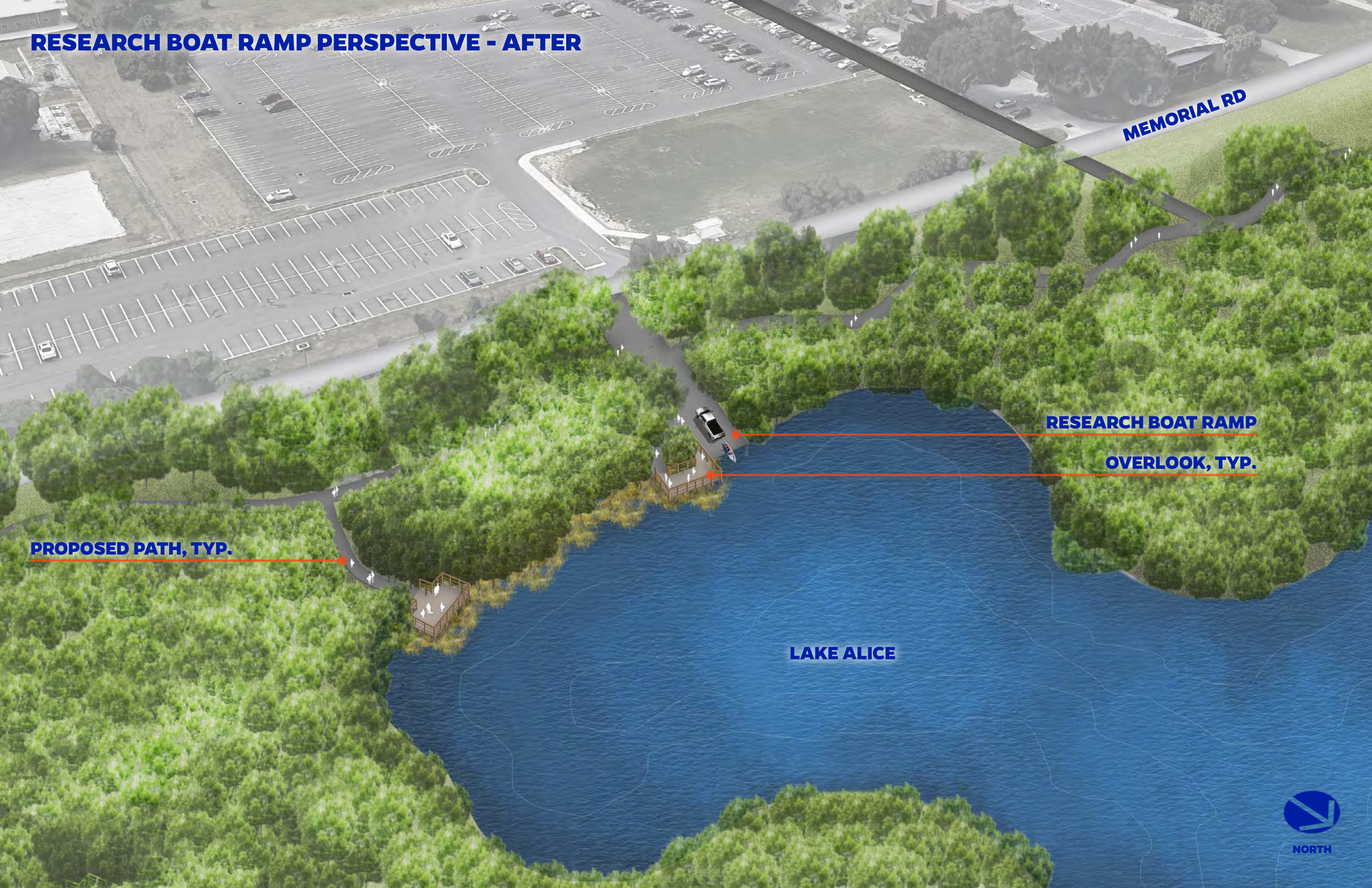
MEMORIAL RD

RESEARCH BOAT RAMP

LAKE ALICE

NORTH

RESEARCH BOAT RAMP PERSPECTIVE - AFTER



LAKE ALICE - NORTHEAST OVERLOOK - BEFORE

LAKE ALICE - NORTHEAST OVERLOOK - AFTER

LAKE ALICE - NORTHEAST OVERLOOK - BEFORE

LAKE ALICE - NORTHEAST OVERLOOK - AFTER

LAKE ALICE -TRAIL NORTH OF IFAS FACILITIES - BEFORE

LAKE ALICE -TRAIL NORTH OF IFAS FACILITIES - AFTER

DRAFT TRAILS MASTER PLAN

LAKE ALICE & EAST CAMPUS

HARMONIC WOODS

WERTHEIM

FUTURE STUDENT HOUSING

FUTURE STUDENT HOUSING

UPD

BAT HOUSES

DSIT

LAKE ALICE

OVERLOOK, TYP.

BOARDWALK, TYP.

BARTRAM-CARR WOODS

FUTURE BIOMEDICAL RESEARCH

WILMOT GARDENS

BASEBALL

0’ 250’ 500’ 1,000’

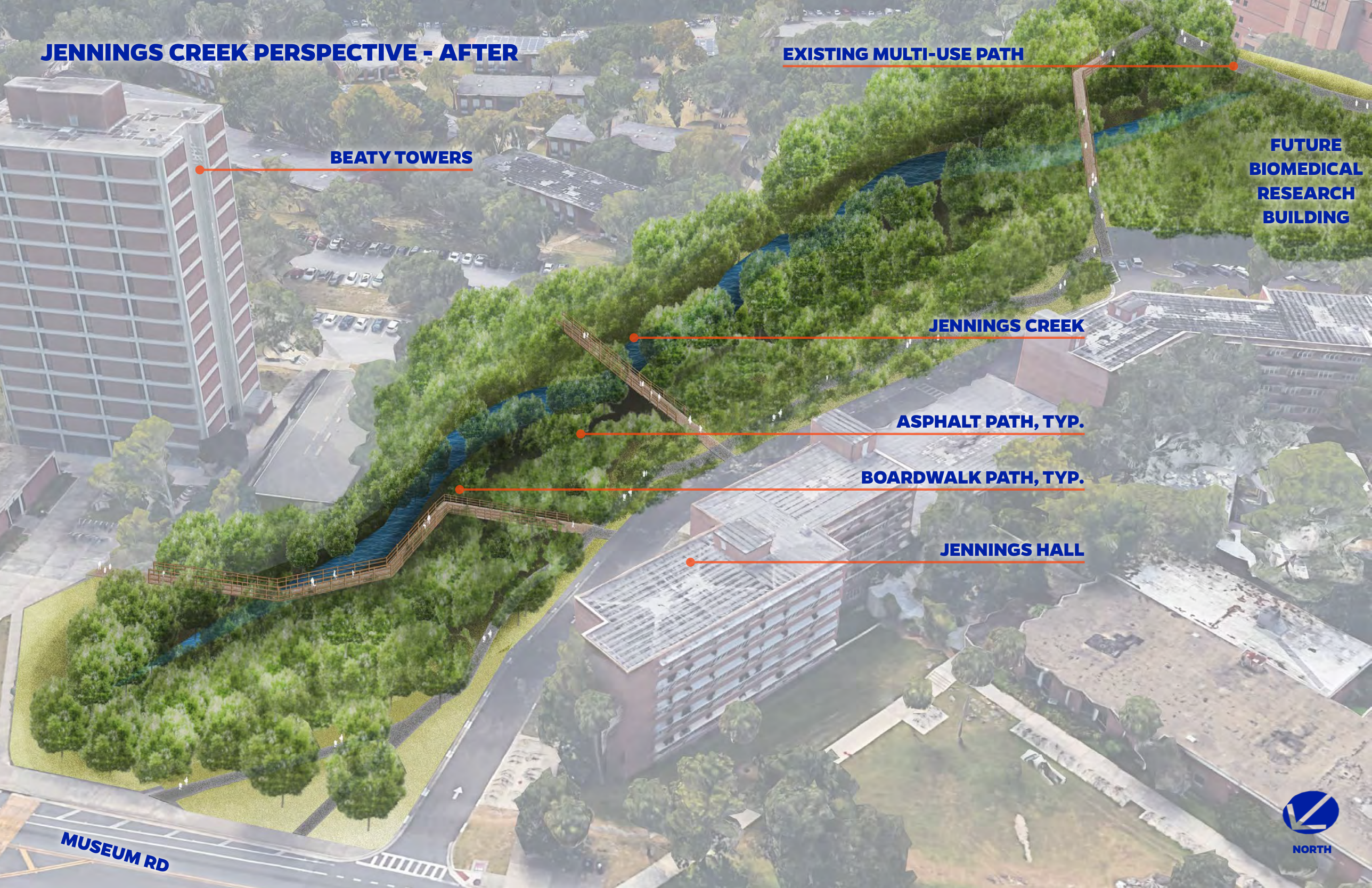
NORTH

HUME CREEK PERSPECTIVE - BEFORE

HUME CREEK PERSPECTIVE - AFTER

JENNINGS CREEK PERSPECTIVE - BEFORE

JENNINGS CREEK PERSPECTIVE - AFTER



DRAFT TRAILS MASTER PLAN

TRAIL LOOPS

HARMONIC WOODS LOOP
0.4 MI / 8 MIN

BAT HOUSE WOODS LOOP
0.4 MI / 8 MIN

SOUTHWEST LOOP
1.5 MI / 31 MIN

CULTURAL PLAZA LOOP
1.2 MI / 24 MIN

FRATERNITY WETLANDS LOOP
1.5 MI / 30 MIN

CAMPUS CORE LOOP
1.9 MI / 39 MIN

LAKE ALICE LOOP
2.2 MI / 44 MIN

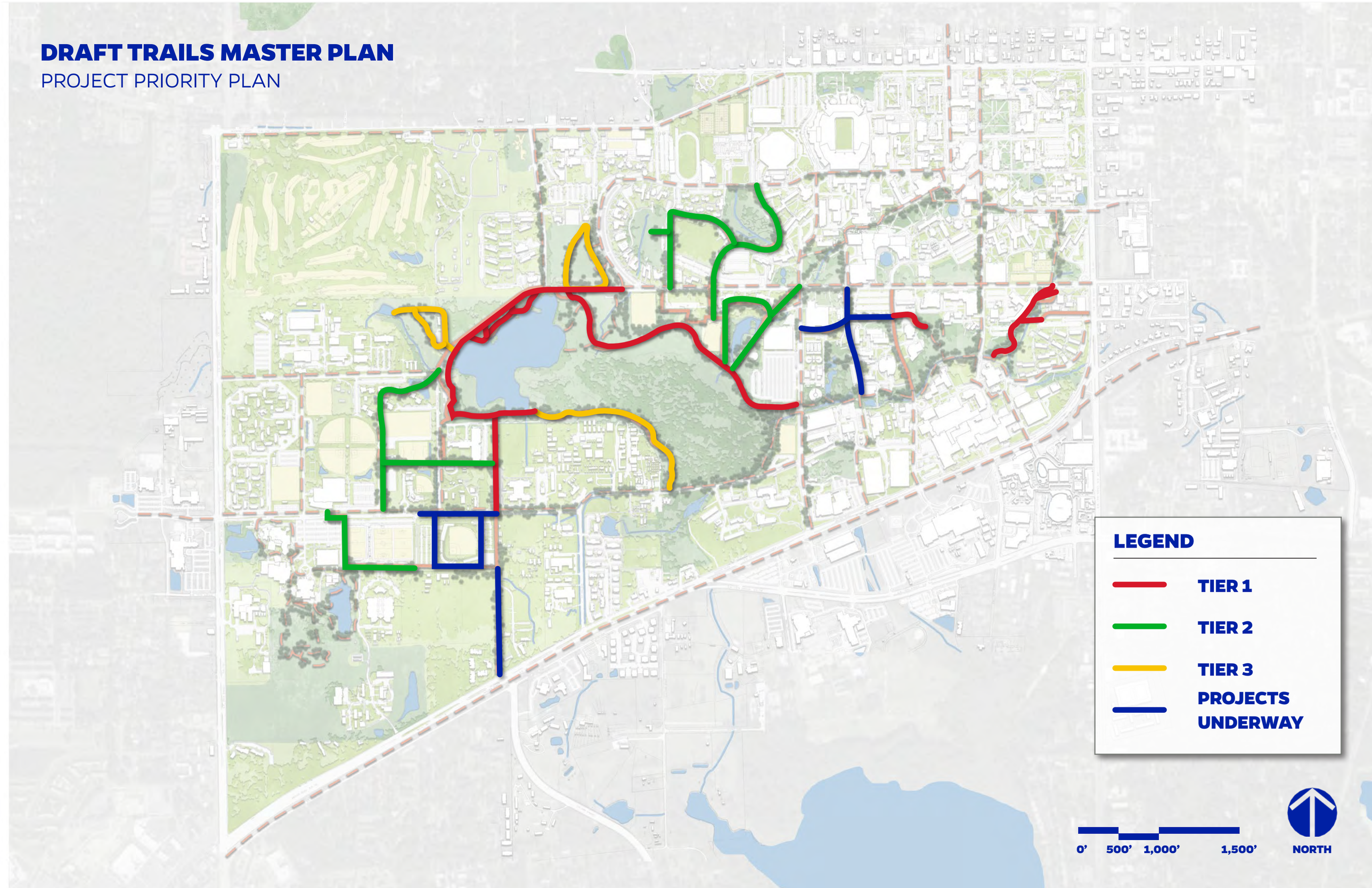
NOTE: ALL DISTANCES CALCULATED ASSUMING 1 MILE = 20 MIN

0’ 500’ 1,000’ 1,500’

NORTH

DRAFT TRAILS MASTER PLAN

PROJECT PRIORITY PLAN



TRAILS MATERIALS OPTIONS

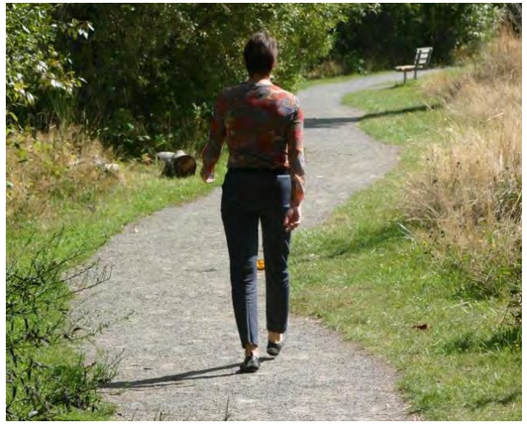
SHARED-USE PATH (ASPHALT)

STYLE	PER LANDSCAPE MASTER PLAN STANDARDS
COLOR	TO MATCH EXISTING

TRAILS (FLEXIPAVE)

MANUFACTURER	K.B. INDUSTRIES
STYLE	PER LANDSCAPE MASTER PLAN STANDARDS
COLOR	TO MATCH EXISTING

IMAGE SOURCE: HTTP://KBIUS.COM/KBI-PRODUCTS/KBI-FLEXI-PAVE/



TRAILS (CONCRETE FINES/ ASPHALT MILLINGS)

MANUFACTURER	VARIES
STYLE	N/A
COLOR	N/A

IMAGE SOURCE: HTTPS://WWW.AMERICANTRAILS.ORG/PHOTOS/1-IMG-7709-COPY-JPG

BOARDWALK

STYLE	POLYWOOD RAILINGS WITH METAL MESH, ALUMINUM OR STEEL BAR GRATING DECKING

IMAGE SOURCES:

TOP: HTTP://WWW.LEWES.COM/EVENTS-AND-ACTIVITIES/BIKING-A-HIKING/62-GORDONS-POND-TRAIL.HTML

BOTTOM LEFT: IMAGE COURTESY OF LINDA DIXON

BOTTOM RIGHT: HTTPS://WWW.STRONGWELL.COM/CASE-STUDY-FRP-WALKWAY-CONNECTS-PEOPLE-WITH-NATURE/

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APPENDIX ‘A’ - EXISTING CONDITIONS