



2015-2035 CAMPUS MASTER PLAN

EXECUTIVE SUMMARY

November 2024



President’s Message

The FIU **2015-2035 Campus Master Plan Update** is a forward-looking blueprint that will guide our university’s physical growth and development to support the academic and research goals of our university community. This update builds on the successes of the original plan, while recognizing the need to address the evolving needs of our campus and stakeholders over the next two decades. The plan is grounded in our **Experience Impact 2030** strategic vision, ensuring that our campus supports our mission and provides an environment where innovation, collaboration, and academic excellence are harnessed.

Key aspects of this plan include:

- **Building a Sustainable Campus:** We are committed to enhancing our campus through environmentally responsible design and sustainable practices that reduce our environmental footprint and provide an innovative infrastructure for future generations of students and researchers.
- **Enhancing Accessibility and Connectivity:** Our Master Plan includes improved transportation and access options that integrate seamlessly with surrounding neighborhoods, ensuring that our campus is easily accessible and well-connected to the broader community.
- **Facilities Supporting Strategic Pillars:** The plan outlines strategic investments and alliances in academic and research facilities, as well as housing, to meet student demands and intentionally design the student journey with the FIU Experience in mind.
- **Maximizing Land Use:** We are mindful of the constraints of our land and are dedicated to optimizing our campus layout, ensuring that we make the best use of available space while fostering an inclusive, engaging, and dynamic campus environment.
- **Leveraging Strategic Focus Areas:** Aligned with our broader institutional priorities, this update will provide spaces that support our strategic focus areas of **Environment & Environmental Resilience, Health, and Technology & Innovation**, and the intersection of these fields.

With the adoption of the **2015-2035 Campus Master Plan Update**, it is important to reflect on the extraordinary progress FIU has made and the future we are building together. Our university provides a blueprint for the mission and impact of a public research institution, creating transformative experiences for students and making a measurable difference in the lives of individuals and communities. I am proud to lead FIU, a leading American research university that continuously rises to meet every challenge, exceeds every goal, and positions itself as a top-tier institution of learning and innovation.

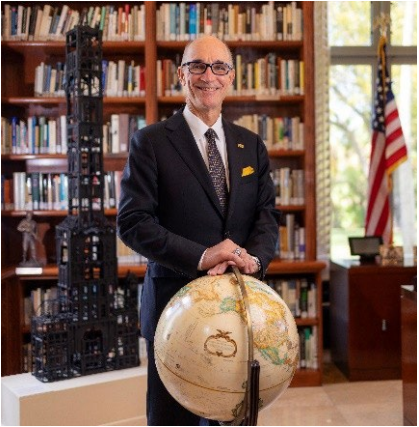
Throughout the past decade, FIU has experienced incredible milestones. This university is now recognized as a national leader in higher education by the Wall Street Journal, U.S. News & World Report, and Washington Monthly. We are very proud to be a Top 50 public university, according to U.S. News. FIU also has been designated a Preeminent State Research University by the Florida Board of Governors; has been the top performer in the state’s performance funding metrics in 2021, 2023, and 2024; and has entered into a transformational alliance with Baptist Health South Florida. Given the collective impact of these accomplishments, our continued growth depends on our ability to adapt and evolve.

We recognize that our campus is not just a physical space — it is the heart of the university, and it must reflect our values and ambitions. This updated Campus Master Plan will help FIU create an environment that supports our continued success and strengthens our identity as a leading public research institution.

I invite all members of our university community to embrace this vision, ensuring that we remain a place of academic achievement and a transformative institution that impacts the world around us.

Kenneth A. Jessell

President



CONTENTS

INTRODUCTION	vii
1.0 ACADEMIC MISSION	08
2.0 ACADEMIC PROGRAM	09
3.0 URBAN DESIGN	10
4.0 FUTURE LAND USE	12
5.0 ACADEMIC & RESEARCH	16
6.0 SUPPORT FACILITIES	18
7.0 HOUSING	20
8.0 RECREATION & OPEN SPACE	22
9.0 GENERAL INFRASTRUCTURE	26
10.0 UTILITIES	32
11.0 TRANSPORTATION	36
12.0 INTERGOVERNMENTAL COORDINATION	38
13.0 CONSERVATION	40
14.0 CAPITAL IMPROVEMENTS	42
15.0 ARCHITECTURAL GUIDELINES	48
16.0 LANDSCAPE DESIGN GUIDELINES	49
17.0 FACILITIES MAINTENANCE	50
18.0 COASTAL MANAGEMENT	51

Innovative
Interdisciplinary
Sustainable Campus
Environment
Pedestrian-friendly
Multi-modal
transparent
Safe
mixed use
Student life
sense of place
neighboring communities
Connected
multipurpose
open space
Main axes
core academic
programs
Expression

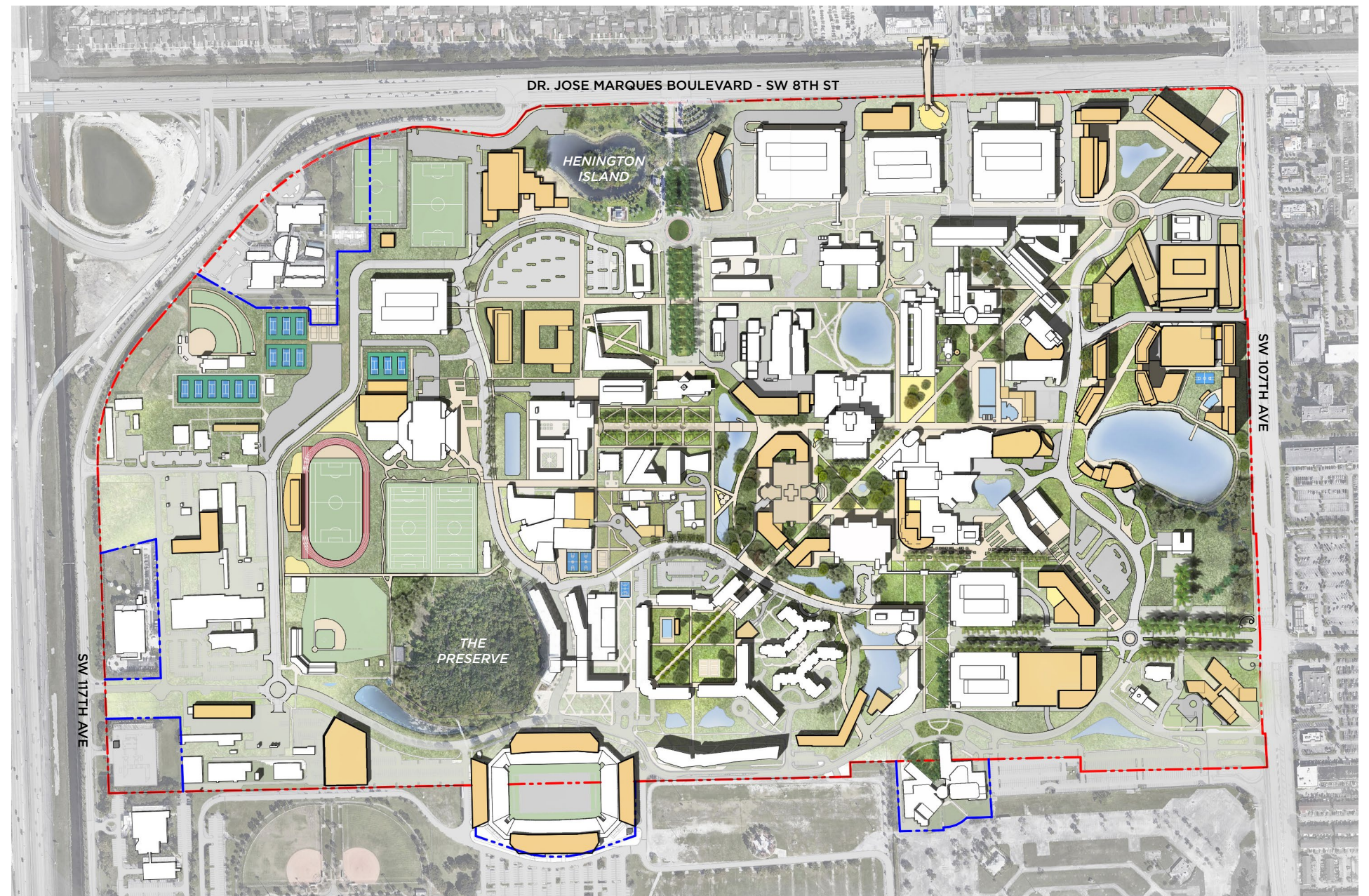
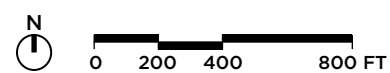


FIGURE 0.2a - MMC 2035 ILLUSTRATIVE PLAN



LEGEND	
---	PROPERTY LINE
---	LEASED/SUBLEASED
	EXISTING BUILDING
	FUTURE BUILDING
	EXISTING BUILDING RENOVATION



FIGURE 0.3a - EC 2035 ILLUSTRATIVE PLAN

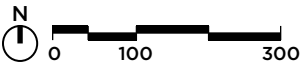
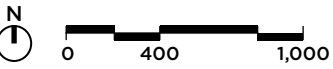


FIGURE 0.4a - BBC 2035 ILLUSTRATIVE PLAN



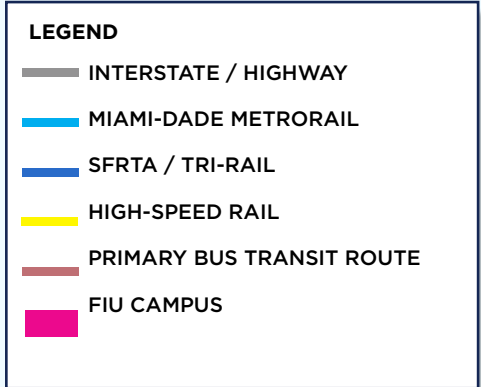
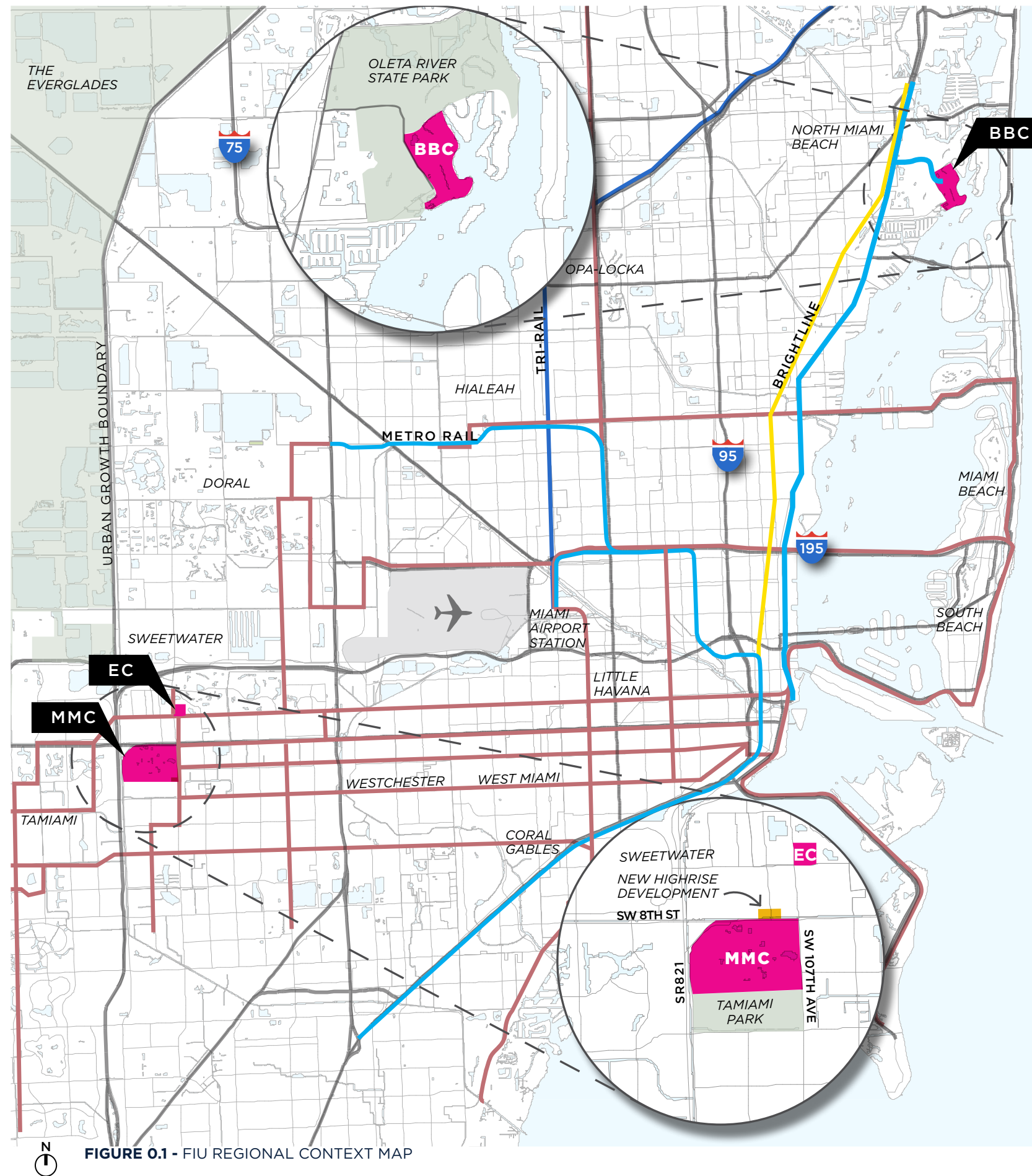


FIGURE 0.1 - FIU REGIONAL CONTEXT MAP



INTRODUCTION

The 2015-2035 Campus Master Plan Update provides a framework of flexible growth opportunities for FIU based on the following:

MAJOR PLANNING GOALS

1. Support the University’s 2030 Strategic Plan currently under development.

The 2030 Strategic Plan has three areas of focus: Environment/ Environmental Resilience, Health, and Technology and three strategic pillars: the FIU Experience, Research, and Mission-aligned Engagement and Partnerships.

2. Develop a sustainable campus environment.

Future development should seek to mitigate rising issues from urbanization and the heat-island effect, provide infrastructure for photovoltaic panels and shading canopies, anticipate sea level rise, and provide short walking distances between buildings and transit service.

3. Develop better transportation and access options.

Integrate transit into each campus to limit long walking distances. Explore expanded shuttle stops or increased frequency in shuttle services. Provide shaded bus terminals. Expand infrastructure for charging stations for electric vehicles.

4. Establish better connectivity with neighboring communities.

5. Provide adequate academic, research, and housing facilities to meet the needs of current enrollment.

6. Optimize development within land use constraints.

GUIDING PRINCIPLES

In addition, the following Guiding Principles help to inform the Campus Master Plan Update and support the University Strategic Plan:

1. Develop forward looking, innovative and interdisciplinary learning and research environments.

2. Reinforce a culture of sustainability and a sustainable campus environment.

Develop FIU’s campuses as centers for innovation in sustainability as an active part of student learning. Campus life can be structured to create an experience of sustainable living, with an educational goal for students to incorporate these habits into their careers.

3. Strengthen FIU’s identity and sense of place through the expression of its campus environment. Strengthen the FIU brand and legacy.

Native plants and building materials of South Florida provide local identity and regionalism. FIU is proud to be a recognized member of Tree Campus USA, a status it has achieved annually since 2010. It is committed to effectively managing its tree canopy, expanding engaged teaming within the College of the Arts, Sciences and Education, and fostering heat island reduction. In concert with increasing the sustainable maintenance and operations of its campuses, FIU supports opportunities to become an educational arboretum. As curriculum and research are directly linked to existing trees and vegetation, augmented planting is identified, and funding is established, an arboretum can be identified and approved for accreditation. Campus development should be reviewed for impacts achieving this goal, both in terms of preserving significant trees and adding species diversity.

4. Create a more compact and comprehensive urban environment with-modal solutions to transportation & infrastructure.

5. Establish better connectivity with neighboring communities.

6. Create a safe, transparent, connected, pedestrian-friendly campuses.

7. Site core academic programs along main axes.

8. Develop student life mixed-use communities.

9. Foster learning through multipurpose open space.

10. Reinforce FIU’s opportunistic character by maximizing flexibility for future expansion.

Each of the eighteen elements identified by the State University System planning guidelines are outlined in this document. Together, they provide a holistic and integrated guide for effectively planning campus change in the years to come.

The following illustrative site plans depict the future vision and concepts for each FIU campus.

Note: Late in the development of this document, the buildings designated herein as Engineering I and II were renamed Innovation I and II to create the Innovation Complex.

1.0 ACADEMIC MISSION

Since its founding in 1965, FIU has grown to become one of South Florida’s premier research institutions and one of its largest public universities. As a member of the State University System (SUS) of Florida, FIU offers a broad selection of undergraduate, graduate, and professional programs. Reflecting the diverse and vibrant culture of South Florida, our student body includes a growing number of minority groups and international students, creating a dynamic environment that fosters significant talent and innovation both locally and globally.

As outlined in our “2030 Strategic Plan,” FIU has identified three strategic pillars:

- *Enhancing the FIU experience*
- *Advancing preeminent research*
- *Fostering mission-aligned engagement and partnerships*

These pillars support three areas of focus:

- *Environment / environmental resilience,*
- *Health*
- *Technology*

These strategic priorities, integral to our 2030 Strategic Plan, build on previous efforts while addressing the rapid changes in higher education and the evolving needs of the workforce.



2.0 ACADEMIC PROGRAM

As of Fall 2023, Florida International University enrolls 49,130 undergraduate and graduate students, offering nearly 190 degree programs that align with our strategic goals of enhancing the FIU experience, advancing research, and fostering mission-aligned engagement. Our students benefit from the flexibility of attending multiple campuses and centers across the Miami-Dade area and internationally, reflecting our commitment to global and community engagement.

Interdisciplinary, team-based pedagogy has been a cornerstone of FIU’s educational success, fostering robust partnerships with businesses, health service providers, and community organizations. These collaborations enhance our interdisciplinary teaching and research, particularly in areas of environmental resilience, health, and technology, ensuring that our academic programs contribute effectively to regional and global challenges.

FIU is dedicated to maintaining high educational standards and supporting growth in our student population and academic offerings without planning significant fluctuations in enrollment numbers by the end of the 2035 planning period. Our strategic planning is informed by detailed HC and FTE enrollment data and includes contributions from various schools and colleges, including:

- Arts, Sciences & Education
- Business
- Chaplin School of Hospitality and Tourism Management
- Communication, Architecture + The Arts
- Engineering and Computing
- Herbert Wertheim College of Medicine
- Honors College
- Law
- Nicole Wertheim College of Nursing & Health Sciences
- Robert Stempel College of Public Health & Social Work
- Steven J. Green School of International and Public Affairs



3.0 URBAN DESIGN

The physical environment of FIU’s campuses is pivotal to the educational experiences of its students and the health and well-being of the community, aligning with our strategic pillars and focus areas of enhancing the FIU experience, fostering environmental resilience, and advancing health and technology. Our urban design strategy aims to create memorable and functional campus spaces with well-connected pedestrian networks that incorporate sustainable design practices, integrate impactful art installations, and expand high-quality student spaces.

As we increase facility density in the campus core and expand on-campus housing, maintaining a high-quality campus environment supports not only a successful student experience but also enhances safety, security, and effective branding and wayfinding. The introduction of high-rise building typologies in the adjacent Sweetwater neighborhood sets a precedent for similar developments on campus, necessitating careful planning to preserve, define, and enhance open spaces through well-thought-out regulating axes, campus streets, and a hierarchy of landscapes.

Historically, the urban context surrounding our campuses has been somewhat disconnected. As we expand, creating accessible and permeable campus edges is crucial for fostering stronger relationships with host communities and promoting sustainable urban environments that support our strategic goals of community engagement and interdisciplinary collaboration.

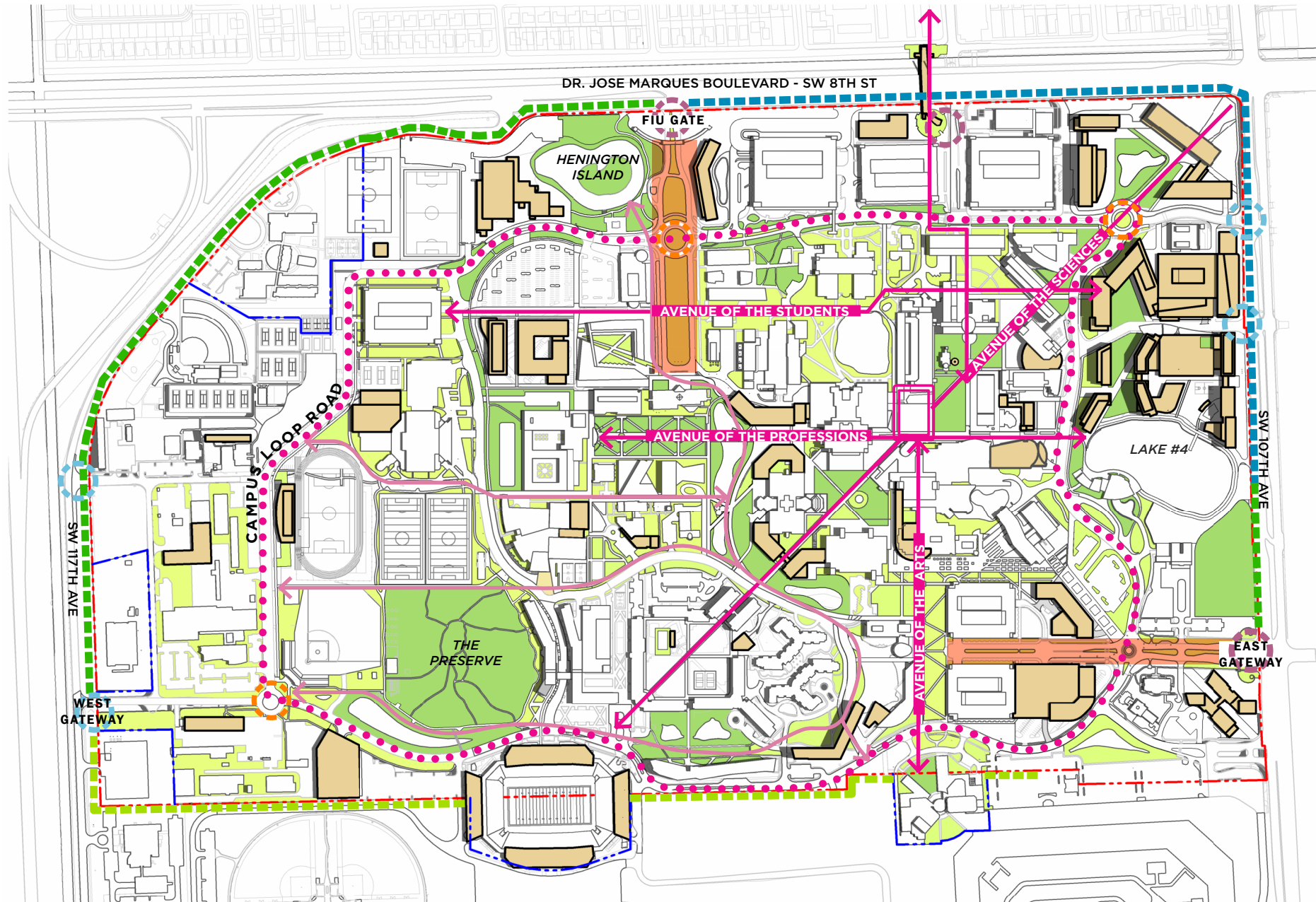
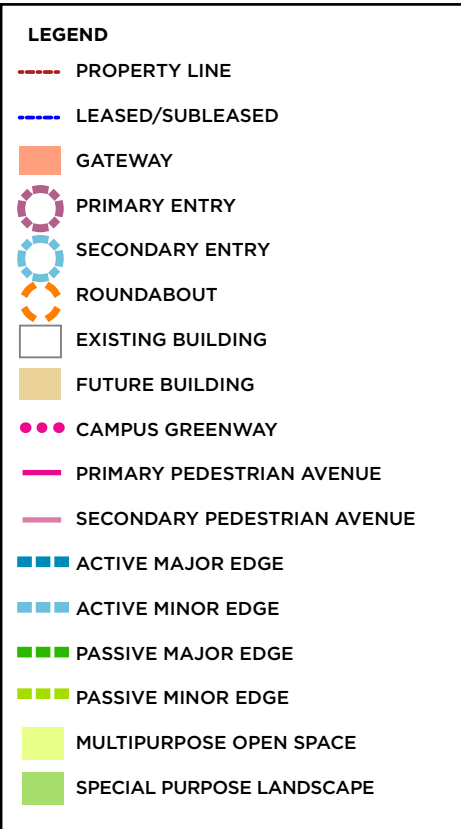


FIGURE 3.1a - MMC URBAN DESIGN CONCEPT PLAN

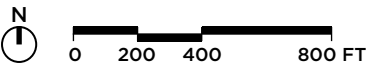




FIGURE 3.2 - EC 2035 URBAN DESIGN CONCEPT PLAN



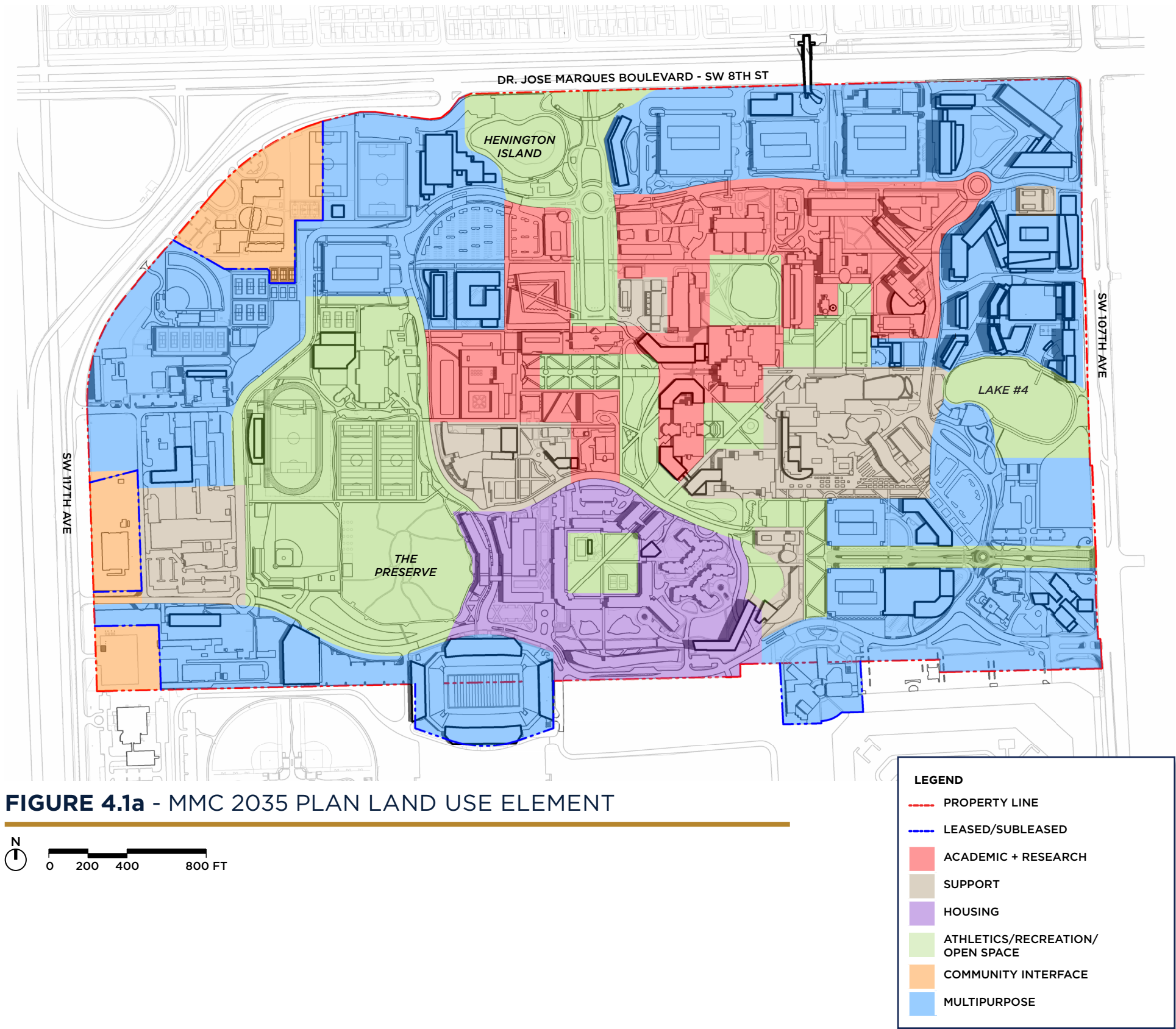
FIGURE 3.3 - BBC 2035 URBAN DESIGN CONCEPT PLAN

4.0 FUTURE LAND USE

To accommodate future expansion needs and meet the challenge of shrinking land resources, strategic infill, renovation, and development are crucial to enhancing existing campus precincts while supporting the growth of our academic programs, student life, and outreach initiatives. This development strategy not only aligns with the urban context of our campuses but also conscientiously avoids competing interests with surrounding host communities. Importantly, it addresses key environmental challenges such as rising sea levels and storm surges, underscoring our commitment to environmental resilience, one of our strategic focus areas.

Multipurpose land-use approach maintains our tradition of urban campus development with mid to high-rise density, facilitating vertical zoning of uses and fostering robust university partnerships. This approach is in line with our strategic pillars, enhancing the FIU experience and promoting research and community engagement.

Moreover, ensuring that existing and proposed land use and development patterns within our campus boundaries are compatible and coordinated with plans by Miami-Dade County, the City of Sweetwater, and the City of North Miami reflects our dedication to community integration and sustainable urban planning.



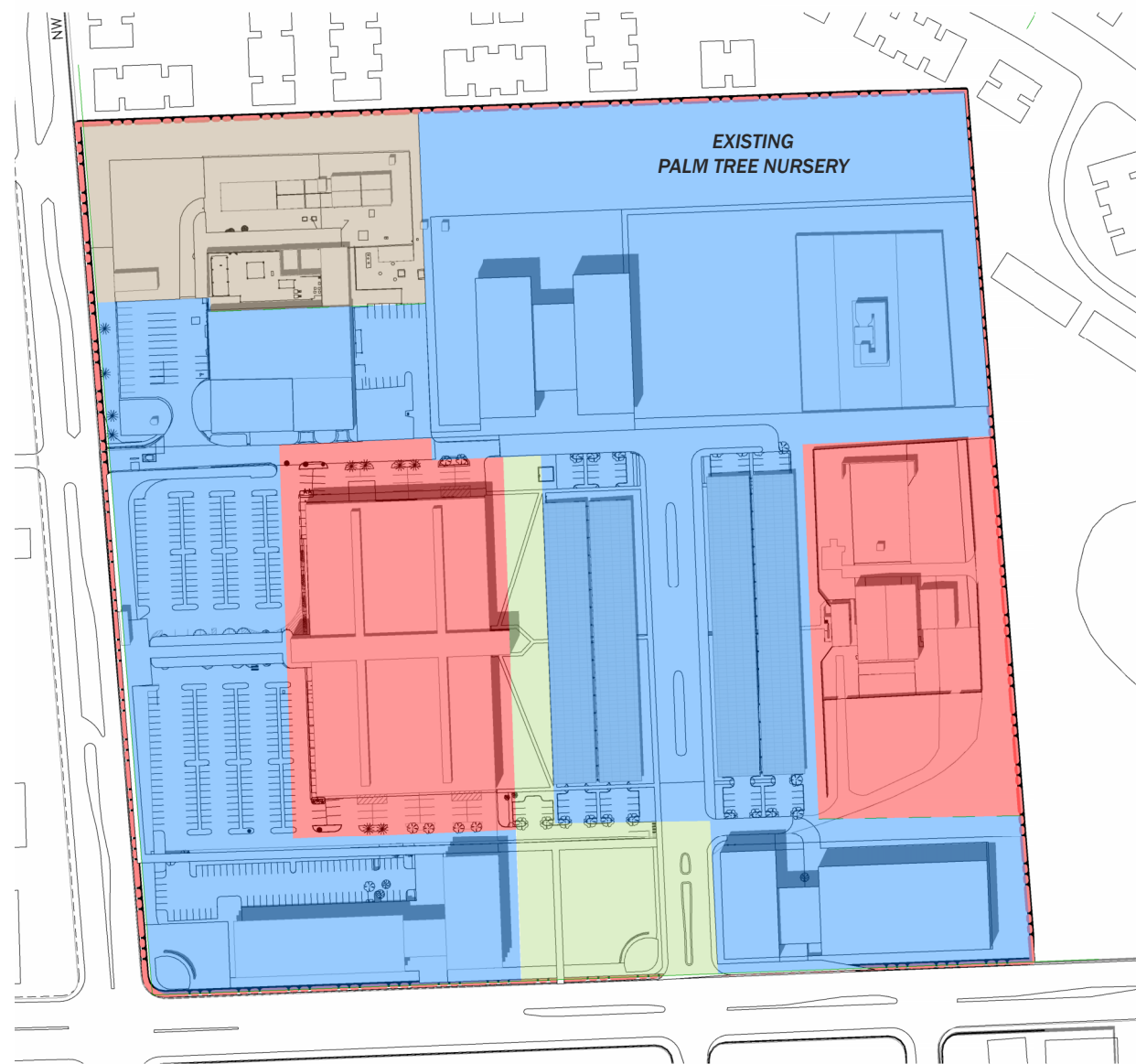


FIGURE 4.2a - EC 2035 PLAN LAND USE PLAN

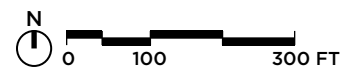
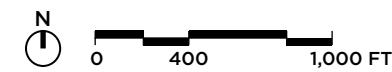
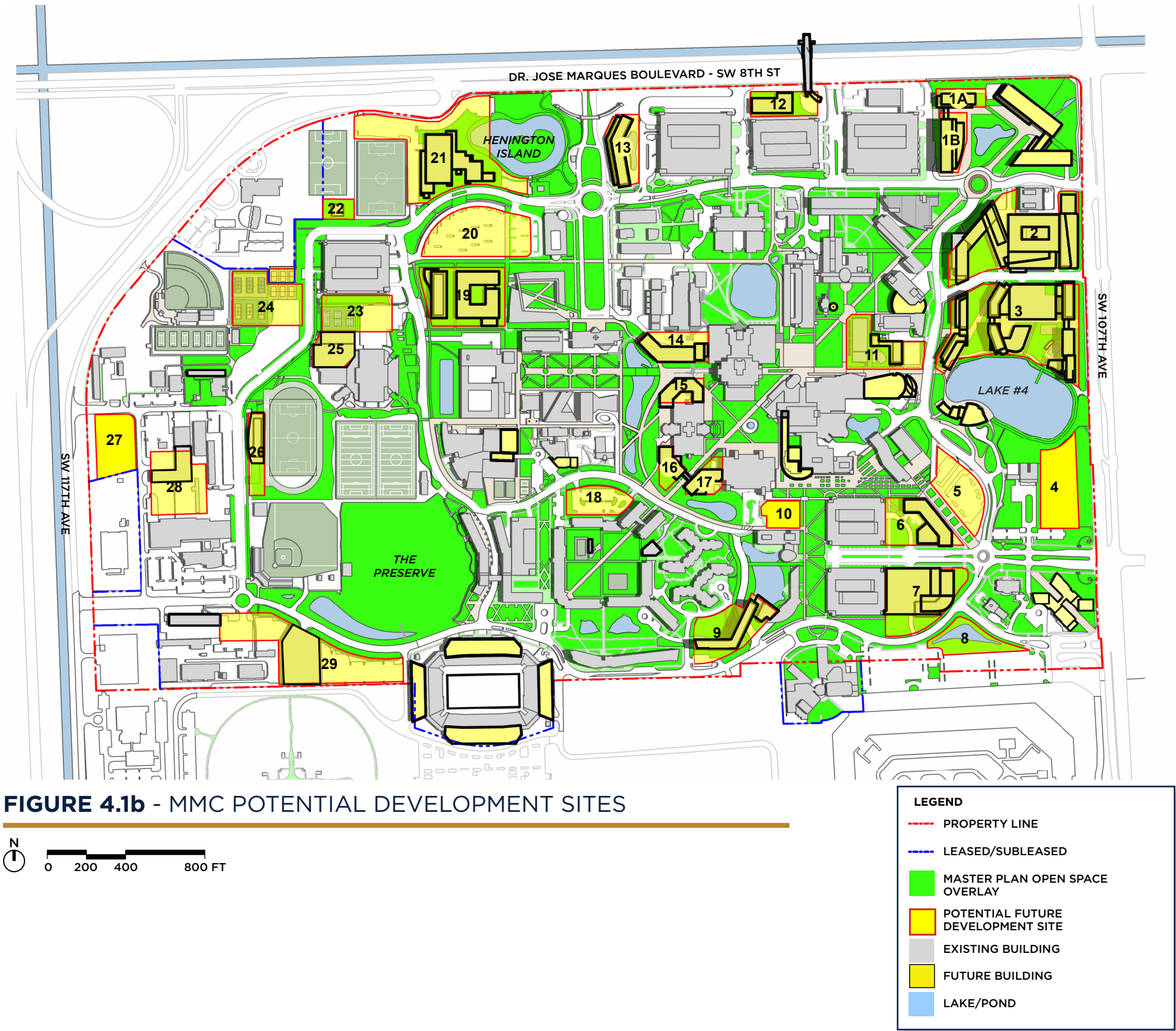


FIGURE 4.3a - BBC LAND USE PLAN



Per the request from the Board of Trustees Ad Hoc Committee the following diagrams identify flexible development sites for each campus that preserve important campus open space and signature pedestrian connections. The adjacent tables indicate each site's area, total acreage, and existing parking that may need to be replaced.

SITE #	PARCEL AREA (SF)	ACRES	EXIST. PARKING
1A	17,543 SF	0.40	0
1B	32,926 SF	0.75	128
2	194,520 SF	4.41	220
3	263,766 SF	6.05	241
4	81,616 SF	1.87	0
5	65,129 SF	1.49	100
6	73,300 SF	1.68	95
7	112,718 SF	2.58	205
8	48,848 SF	1.12	0
9	82,705 SF	1.89	23
10	25,225 SF	0.57	0
11	35,098 SF	0.80	77
12	43,875 SF	1.00	0
13	53,705 SF	1.23	0
14	49,019 SF	1.12	15
15	24,925 SF	0.57	0
16	20,121 SF	0.46	0
17	25,337 SF	0.58	0
18	48,628 SF	1.11	77
19	117,582 SF	2.69	199
20	123,043 SF	2.82	386
21	226,678 SF	5.20	0
22	16,783 SF	0.38	0
23	56,113 SF	1.28	0
24	75,775 SF	1.91	239
25	35,957 SF	0.82	32
26	34,311 SF	0.78	59
27	61,857 SF	1.42	0
28	85,654 SF	1.96	125
29	166,505 SF	3.82	376



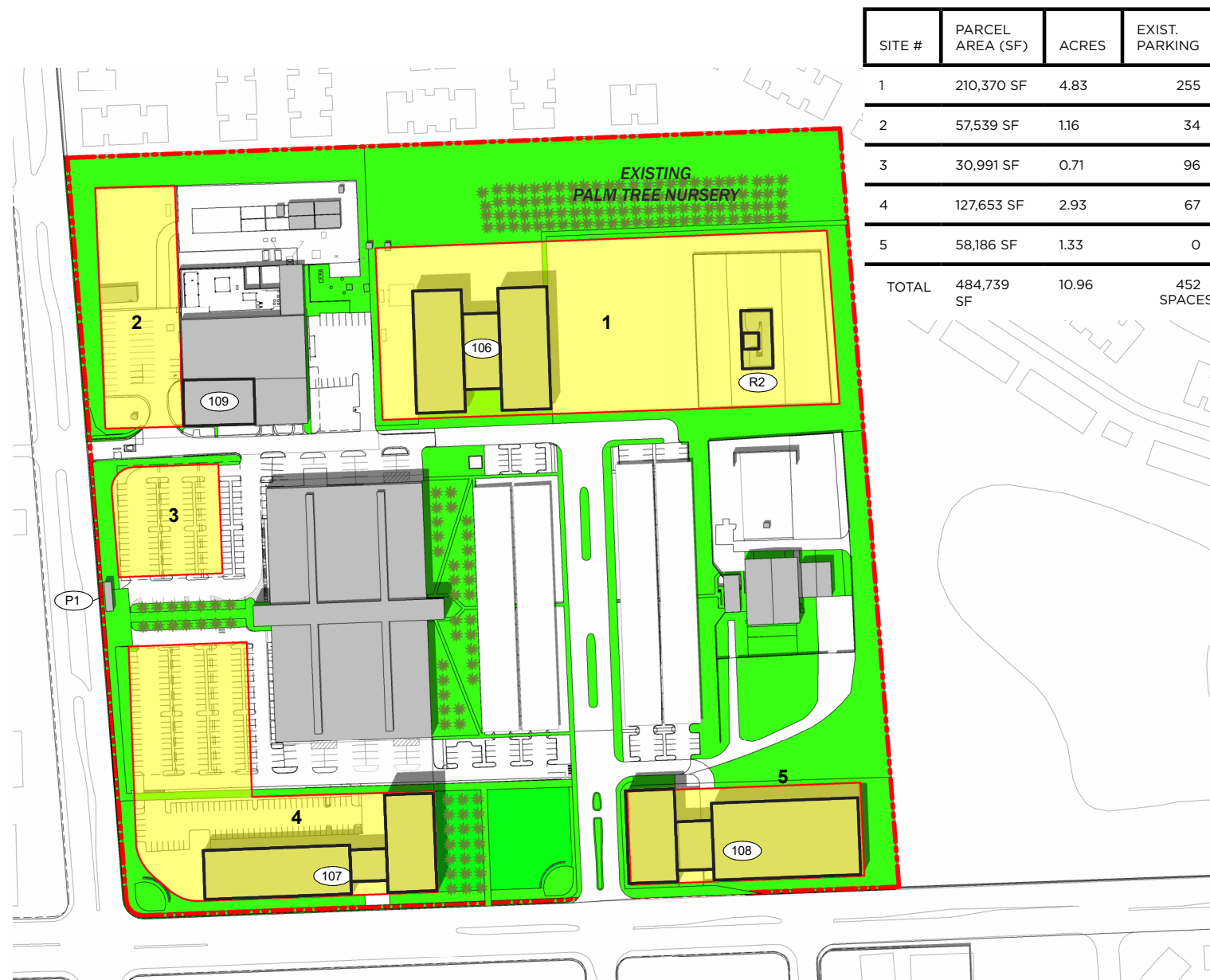


FIGURE 4.2a - EC POTENTIAL DEVELOPMENT SITES

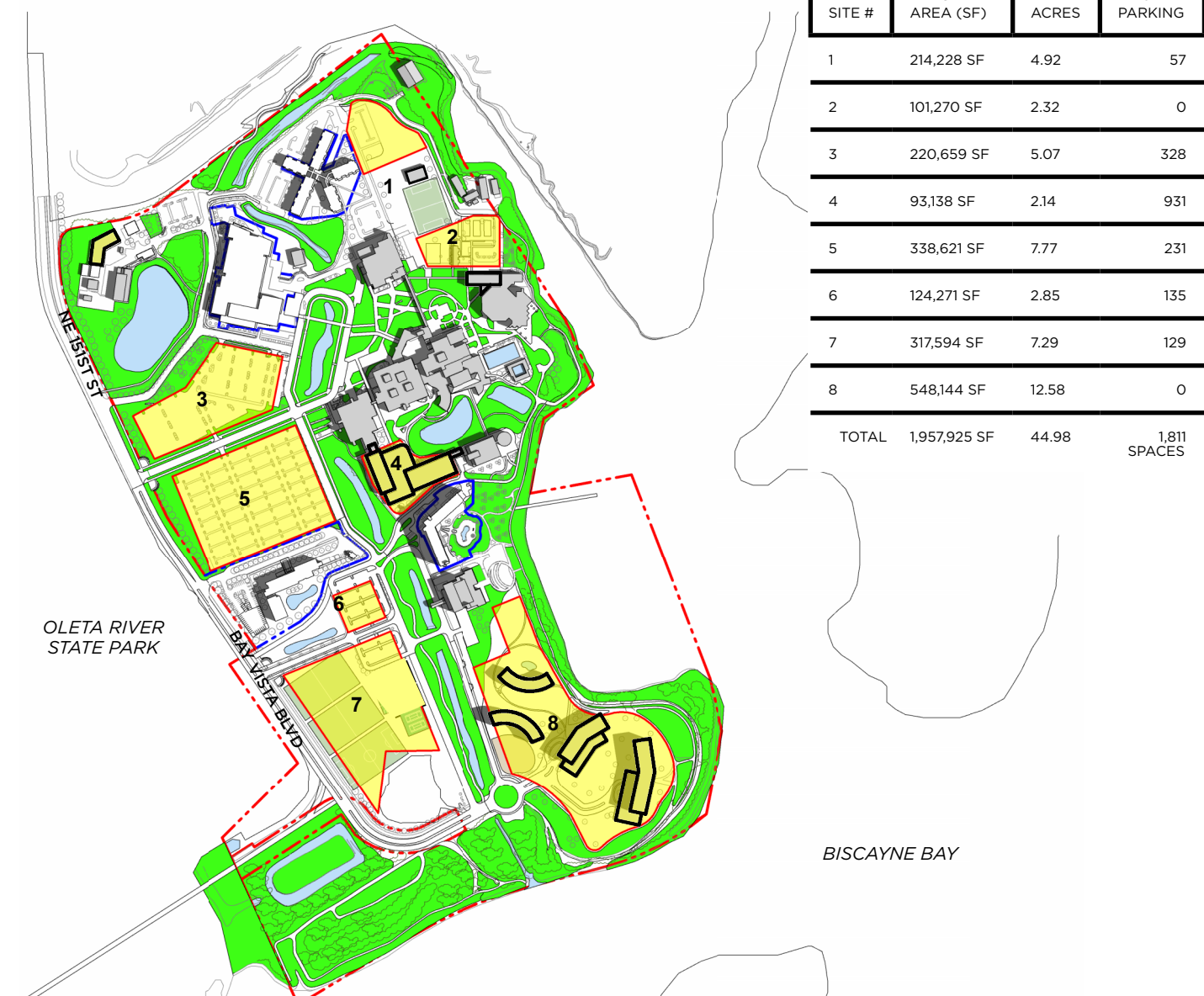
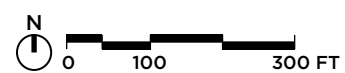
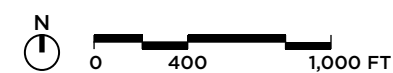
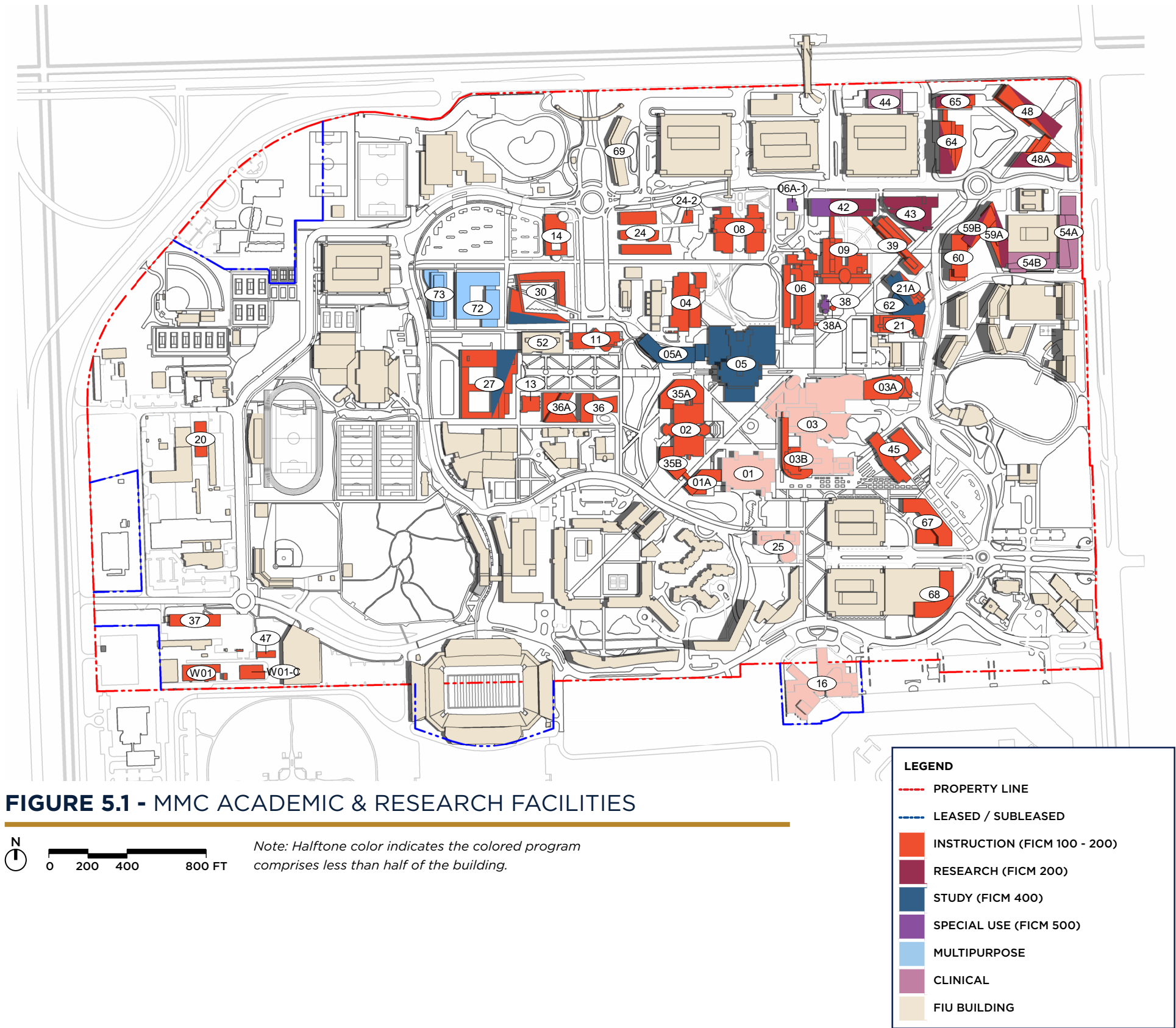


FIGURE 4.3b - BBC POTENTIAL DEVELOPMENT SITES



5.0 ACADEMIC & RESEARCH FACILITIES

Strategic expansion of academic and research facilities is essential to support FIU’s academic mission, address the growing demands of innovative research, and overcome facility deficits, aligned with our strategic pillars of enhancing the FIU experience, advancing research, and fostering mission-aligned engagement and partnerships. To optimize departmental adjacencies, facilitate interdisciplinary research, and maximize space utilization while conserving our limited buildable land, our guidelines advocate for increased density within the ‘academic core’ and the establishment of flexible development zones. These strategies are designed to enhance departmental synergies and foster cross-disciplinary interactions across colleges, crucial for fostering our focus on environmental resilience, health, and technology. Future developments will aim to create and reinforce ‘precincts’ that cluster related programs within a compact academic core, enhancing our capability to deliver a superior educational and research environment.



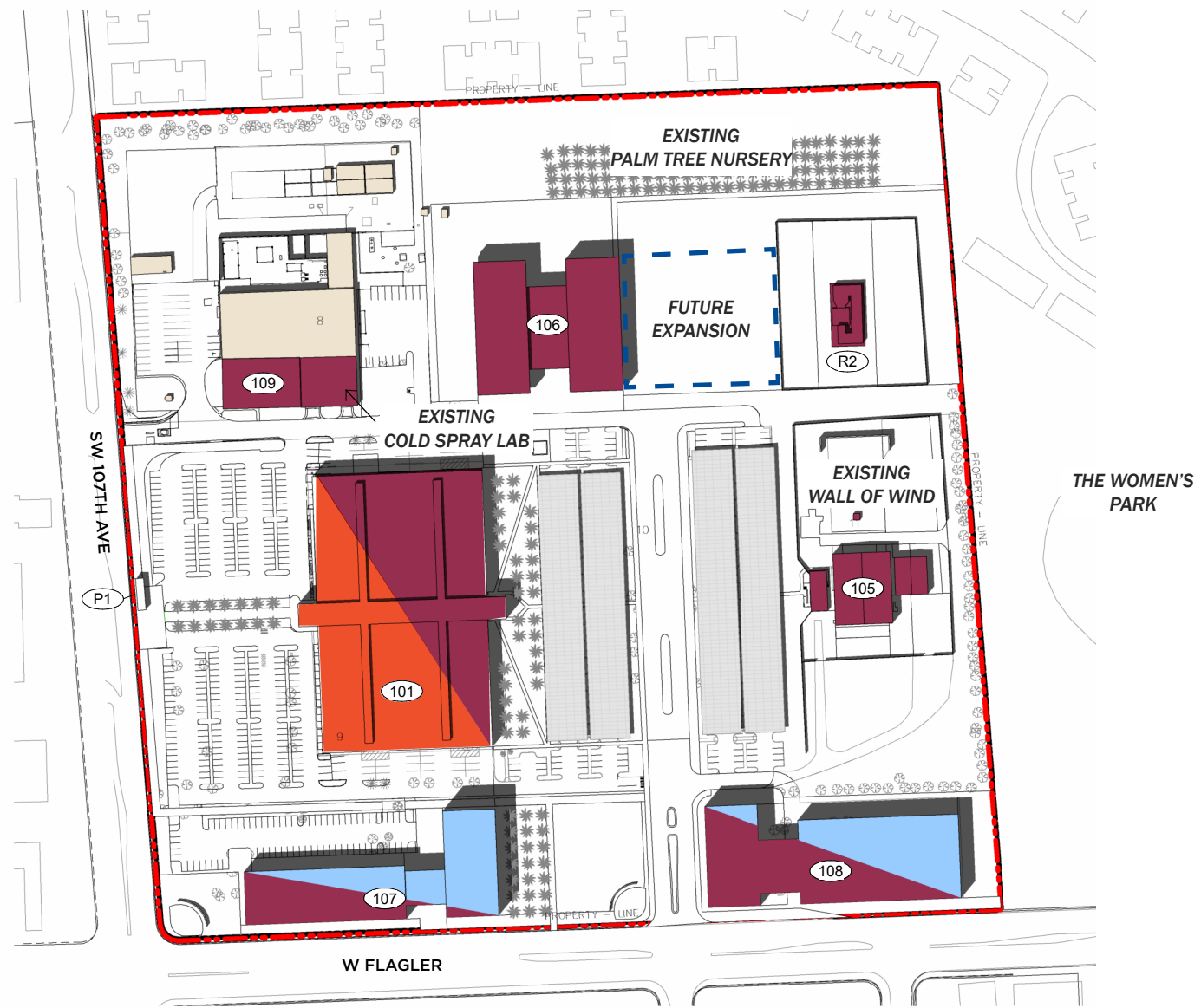


FIGURE 5.2 - EC ACADEMIC & RESEARCH FACILITIES

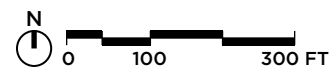
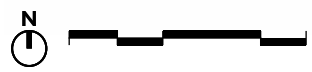


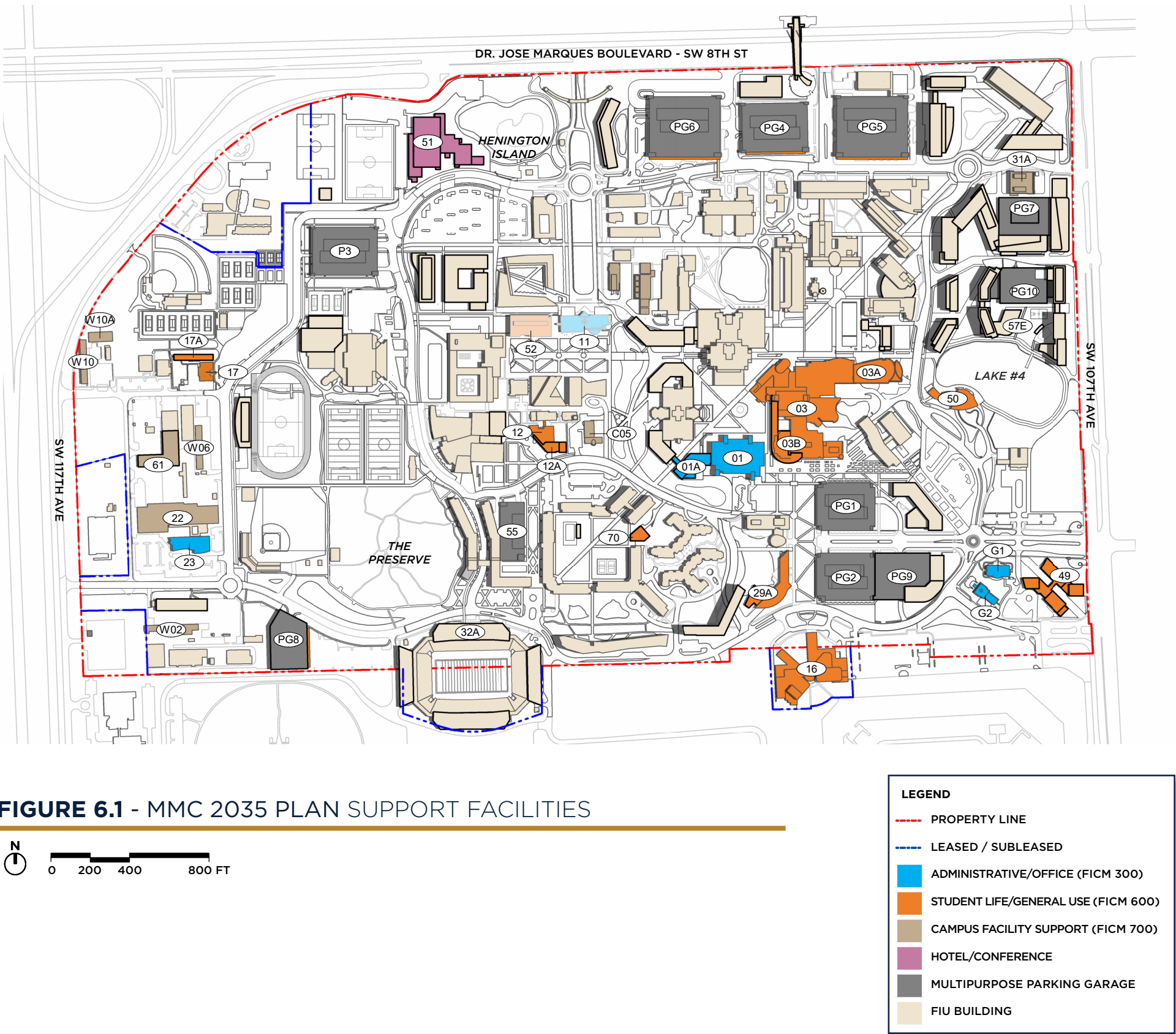
FIGURE 5.3 - BBC ACADEMIC & RESEARCH FACILITIES



6.0 SUPPORT FACILITIES

The ongoing need for academic and non-academic spaces, a result of FIU’s rapid expansion over the last two decades, underscores our strategic commitment to enhancing the FIU experience through improved campus support facilities. Primarily, these needs manifest in additional office spaces integrated within our academic buildings, supporting our research and teaching missions. Funding strategies at the SUS level will remain crucial for achieving FIU’s strategic objectives, ensuring the continued development of on-campus support facilities [Figure 6.1: Modesto A. Maidique Campus, Figure 6.2: Engineering Center, and Figure 6.3: Biscayne Bay Campus for locations of support facilities].

Furthermore, with the constraints of limited land at Modesto A. Maidique Campus, we are planning to develop a new Athletic and Recreation Master Plan in collaboration with Miami/Dade County, reflecting our strategic pillar of mission-aligned engagement. This plan will be rigorously evaluated to align with our broader goals of creating a vibrant, active community that supports both academic achievements and physical well-being. FIU’s commitment to ongoing strategic planning ensures continuous alignment with our goals, addressing the evolving needs for support facilities at all our campuses.



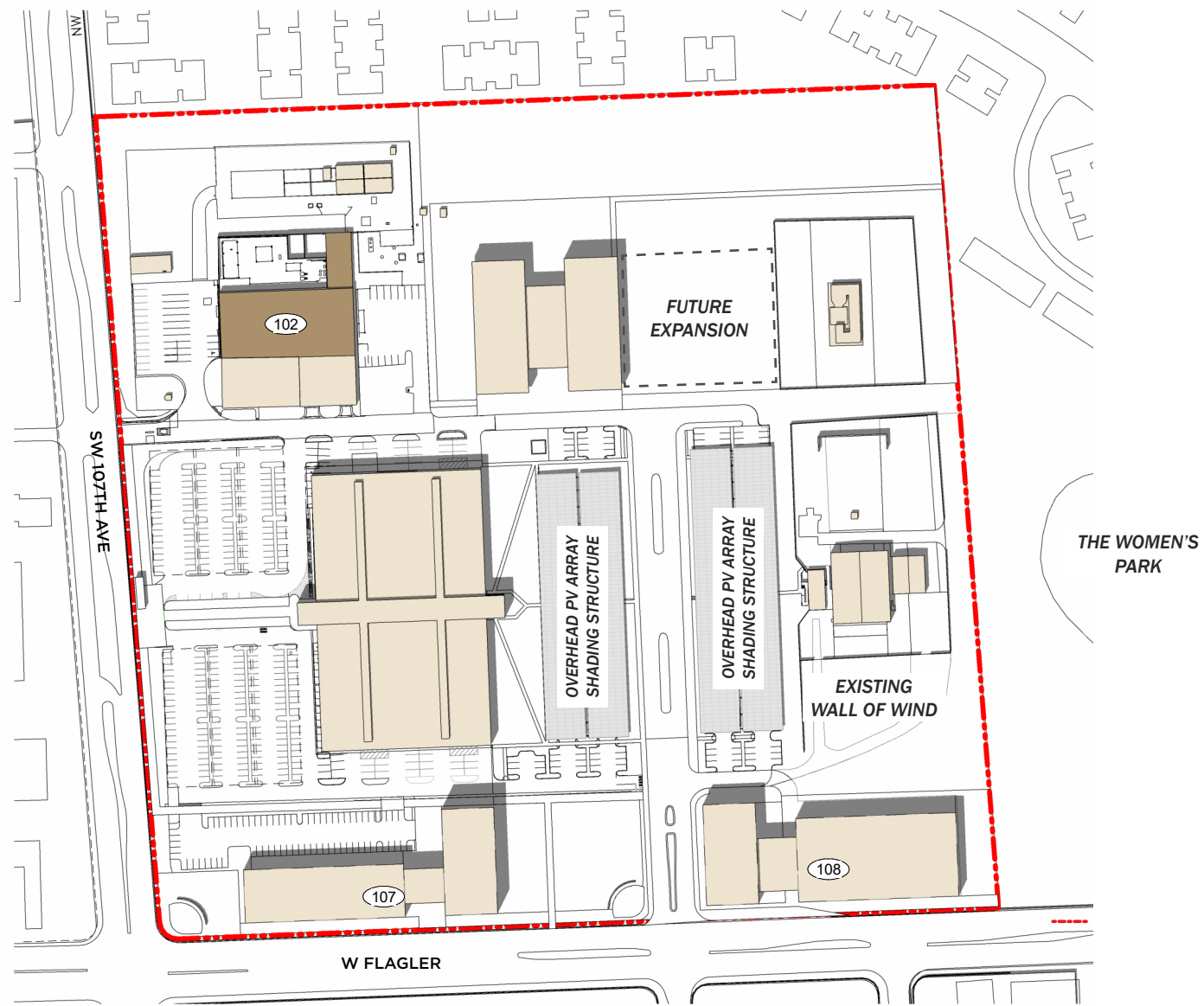


FIGURE 6.2 - EC 2035 PLAN SUPPORT FACILITIES

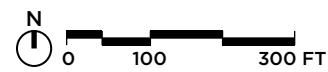
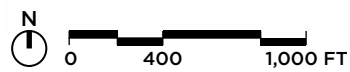


FIGURE 6.3 - BBC 2035 PLAN SUPPORT FACILITIES



7.0 HOUSING

As FIU matures in its stature as a leading educational institution, the need for appropriate and affordable on-campus housing continues to grow. On-campus housing must adapt to both changing student needs and preferences, as well as the proximity of new off-campus, developer-provided housing that targets FIU faculty, staff and students. FIU is committed to providing a variety of housing types and styles to support student success and the amenities that a 24/7 resident population brings to all students (both commuting and virtual).

To promote housing availability and supply, FIU will actively plan with local community and development partners for the availability of an adequate supply of affordable housing units and support facilities both on-campus and off-campus. Furthermore, FIU will provide a variety of high quality alternatives to traditional dormitories to reflect user preferences and particular student classifications such as honors students, graduate students, international students, researchers, married students and members of sororities and fraternities.

Housing facilities at FIU should promote sustainable site standards, living learning communities, and walkability, aligning with our strategic goals to enhance the FIU experience through fostering engaging and sustainable campus environments. New facility designs will be multi-purpose and multi-story, incorporating essential student support services and parking facilities to support our mission of creating a

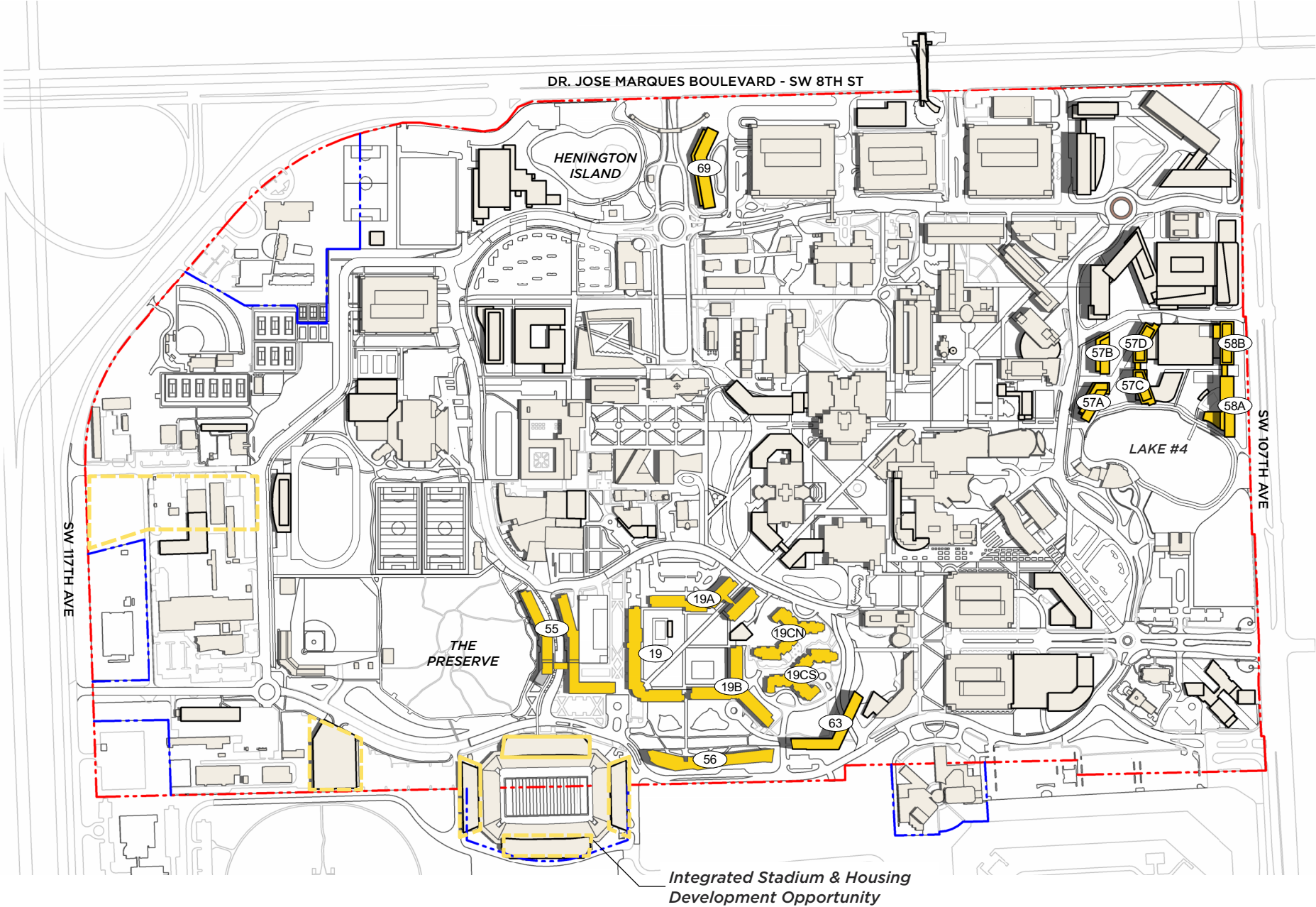
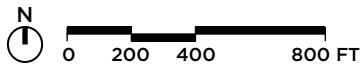


FIGURE 7.1 - MMC 2035 PLAN - HOUSING FACILITIES



LEGEND

PROPERTY LINE

LEASED / SUBLEASED

HOUSING (FICM 900)

HOUSING OPPORTUNITY SITE

FIU BUILDING

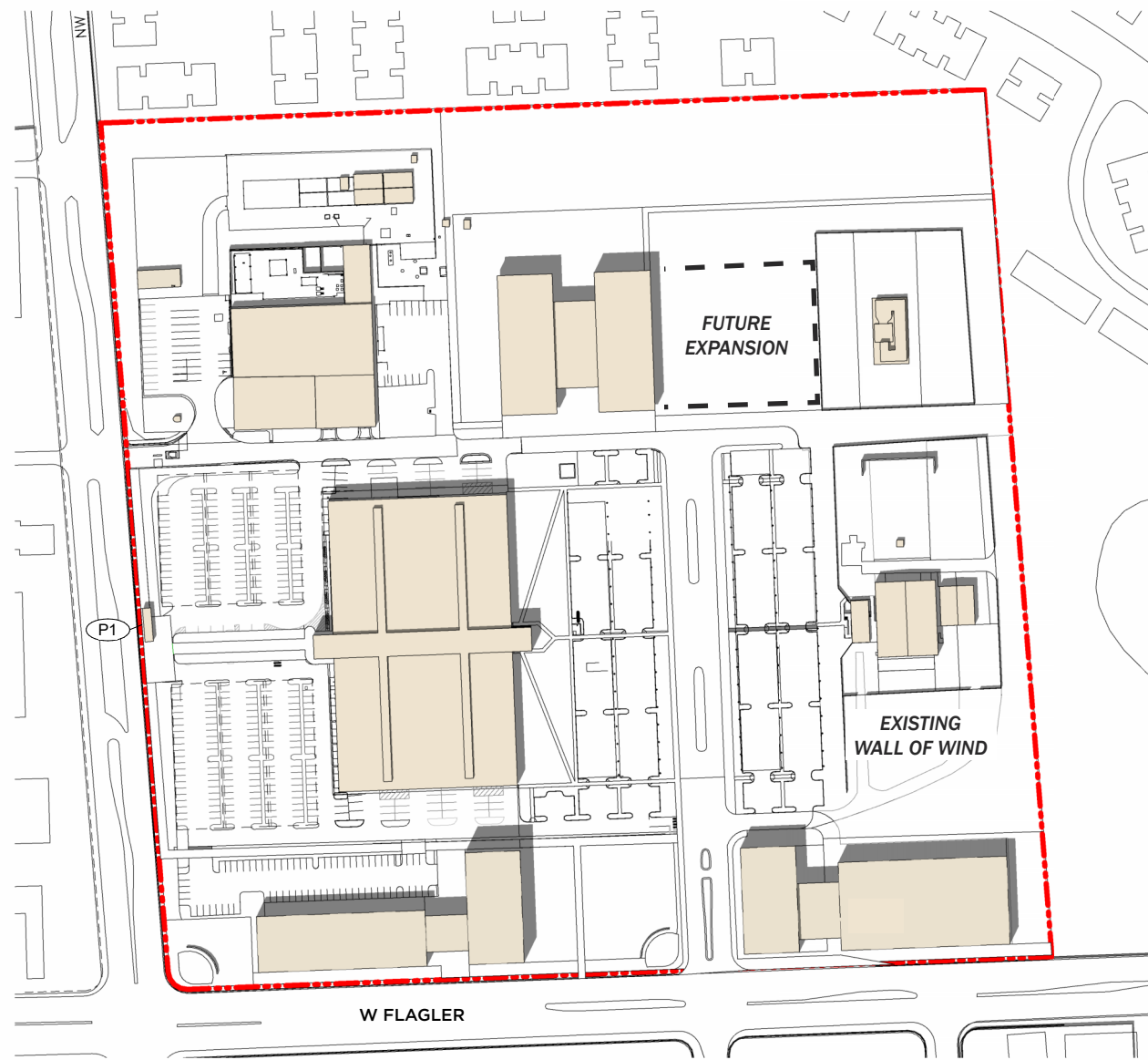


FIGURE 7.2 - EC 2035 PLAN

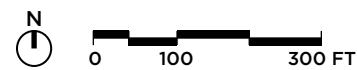
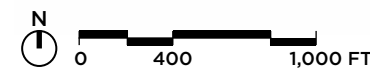


FIGURE 7.3 - BBC 2035 PLAN - HOUSING FACILITIES



8.0 RECREATION & OPEN SPACE

Six categories of open space identified in this Campus Master Plan — multipurpose open space, athletics, special purpose landscape, recreational open space, courtyard/plaza, and campus gateways—are integral to our strategic goals of enhancing the FIU experience and fostering mission-aligned engagement and partnerships. These spaces are vital components of our urban design and open space framework for each campus. To conserve natural resources and support our sustainability objectives, development encroachment on these areas is discouraged. Multipurpose open spaces enhance pedestrian connectivity and contribute to environmental sustainability by providing continuous natural areas with native trees that mitigate the heat island effect and create wildlife corridors.

The 2035 Master Plan Update underscores the need for additional on-campus recreation facilities and the preservation of open space to support these functions. At the Modesto A. Maidique Campus, where land is at a premium for academic uses, recreational activities are constrained to the western edge, posing challenges to expanding on-campus recreational facilities. These limitations underscore the need to pursue off-campus joint use facilities to maintain our commitment to student engagement, success, and wellness, essential for keeping students connected to the University and active in both intercollegiate and intramural activities.

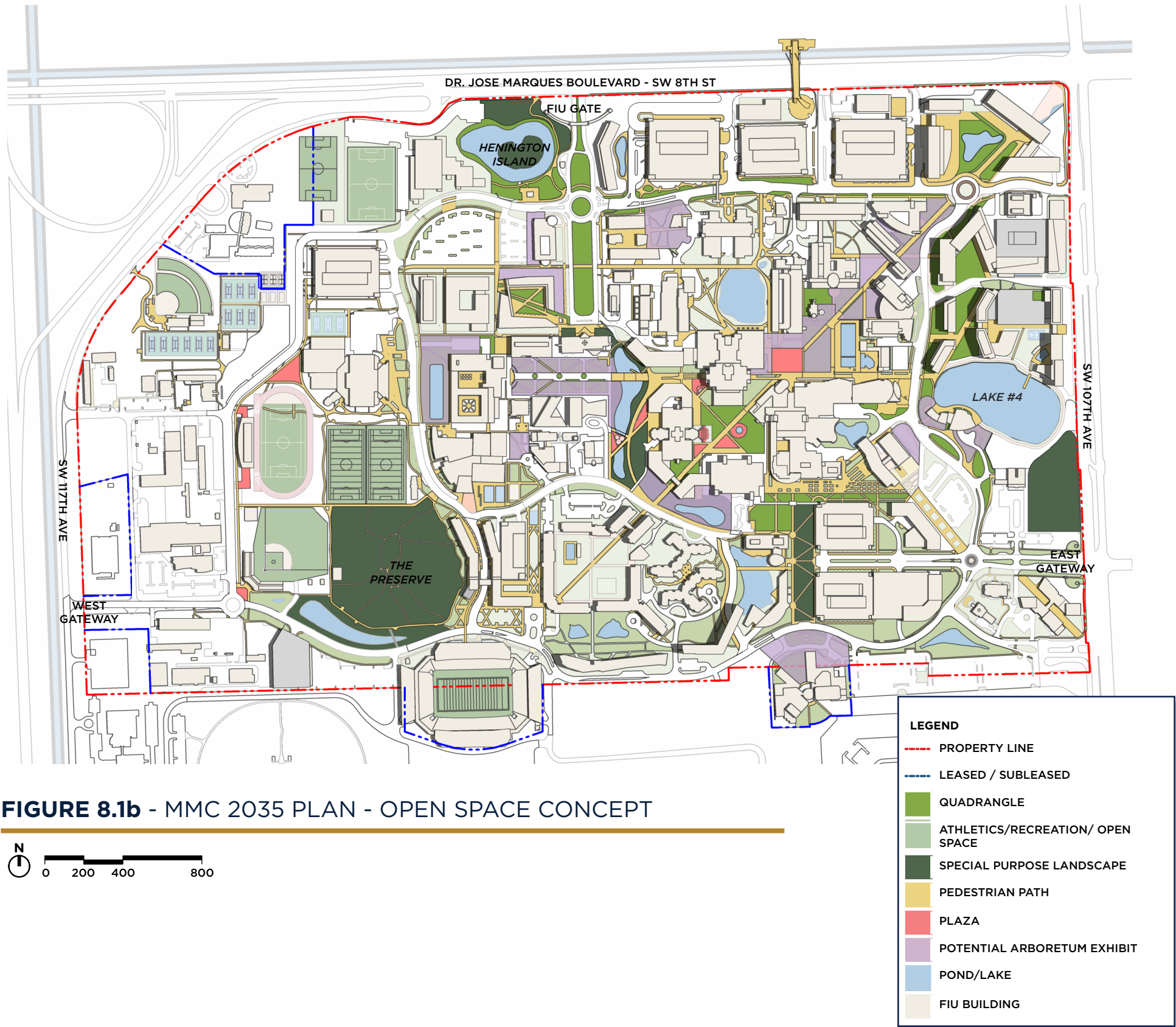


FIGURE 8.1b - MMC 2035 PLAN - OPEN SPACE CONCEPT



FIGURE 8.2 - EC 2035 PLAN - OPEN SPACE CONCEPT



FIGURE 8.3 - BBC 2035 PLAN - OPEN SPACE CONCEPT

Modesto A. Maidique Campus

Currently, the majority of recreational facilities are located at the western edge of campus. In response to increased neighboring development, negotiations with Miami-Dade County for possible joint use of Tamiami Park should remain an ongoing resource for additional recreational facilities – which it already relies upon for student use.

These properties are key for satisfying demand for both recreational and academic/research facilities. In addition to active recreation,

improved open space that promotes easy access and campus movement is critical. FIU will continue to work with the Miami-Dade County Park and Recreation Department regarding the recreation and open space needs for both the University and Miami-Dade County.

Campus outdoor space should be enhanced with proposed new event and food-truck plazas, upgrades to historic and heritage open spaces, and quadrangles as well as the protection of specimen trees.

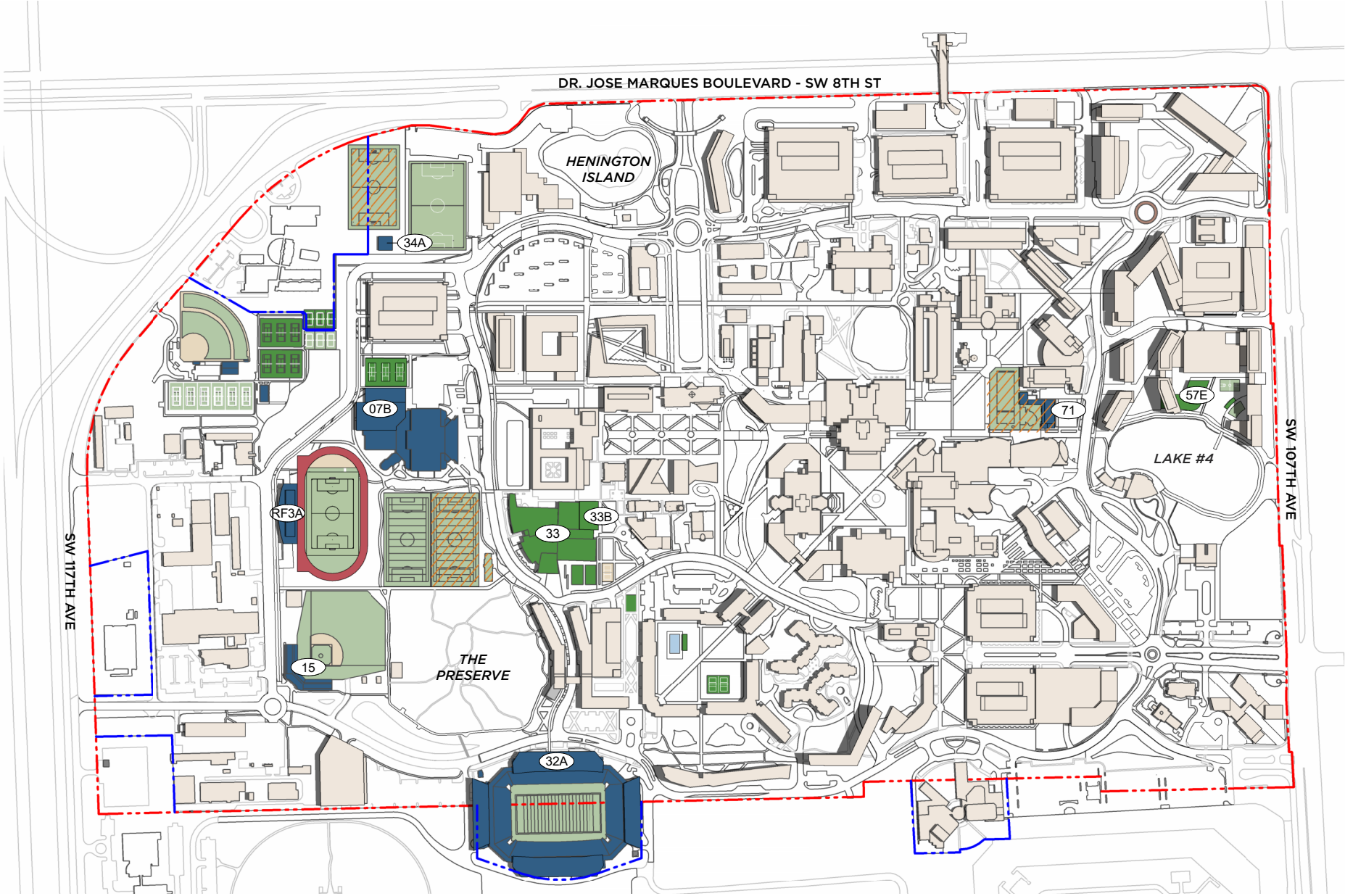


FIGURE 8.1a - MMC 2035 PLAN - ATHLETICS & RECREATION

LEGEND

PROPERTY LINE

LEASED / SUBLEASED

ATHLETICS - INDOOR FACILITY

ATHLETICS - FIELD/COURT

RECREATION - INDOOR/OUTDOOR

SHARED ATHLETICS & REC

FIU BUILDING



9.0 GENERAL INFRASTRUCTURE

The purpose of this element is to ensure the coordinated provision of public facilities and services required to meet the future needs of the University, aligning with our strategic goals to foster a sustainable and resilient campus. This includes addressing sustainability issues through the development of a Climate Action Plan and ensuring that all new facilities meet United States Green Building Council (USGBC) standards and target LEED Gold or equivalent (at a minimum), reflecting our commitment to environmental stewardship. Key infrastructure improvements will include:

- 1. Solid waste handling and arrangements for disposal capacity
- 2. Stormwater management capacity to protect the welfare of both the University's and host community's residents.
- 3. Potable water and water reuse for irrigation purposes.
- 4. Sanitary sewer and treatment capacity to meet anticipated University needs.

WATER: Potable water for Modesto A. Maidique Campus is provided by the Miami-Dade Water and Sewer Department (MDWASD). MDWASD owns and maintains all existing watermains inside the campus. It is important to note most water mains on campus do not have easements over them. However, easements have been required for recent development and all future development will need to consider easements as required from MDWASD. MDWASD easements along water mains will include restrictions on development within the easements. The internal water distribution system is fed via existing water mains located within the right-of-way of SW 8th Street, SW 107th Ave and SW 117th Avenue.

The Engineering Center is serviced from a MDWASD owned water distribution system with points of connection on SW 107th Avenue and West Flagler Street.

Potable water service to the Biscayne Bay Campus is provided by the City of North Miami. Connections are made to the City owned off-site system located along NW 151st Street and NW 135th Street.

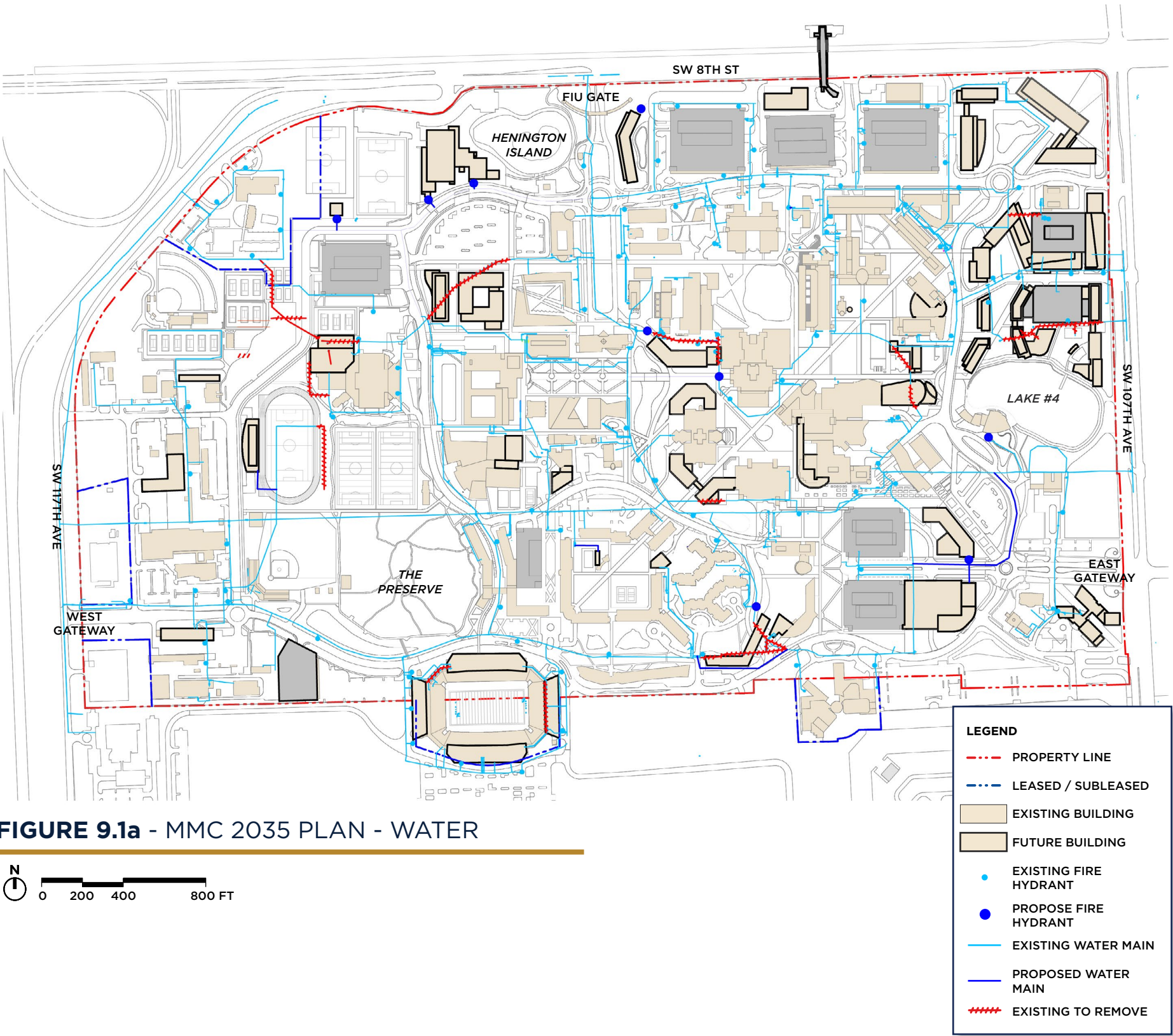


FIGURE 9.1a - MMC 2035 PLAN - WATER



FIGURE 9.2a - EC 2035 PLAN - WATER

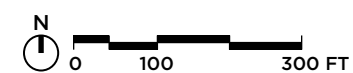
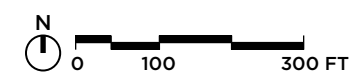


FIGURE 9.3a - BBC 2035 PLAN - WATER



SEWER: The Modesto A. Maidique Campus sanitary sewer system consists of gravity sewer lines, force mains, a series of privately owned sanitary sewer lift stations.

Sewage flows from the campus are transmitted off-site to the MDWASD owned system via two connection points located within the right-of-way of SW 8th Street and SW 117th Avenue.

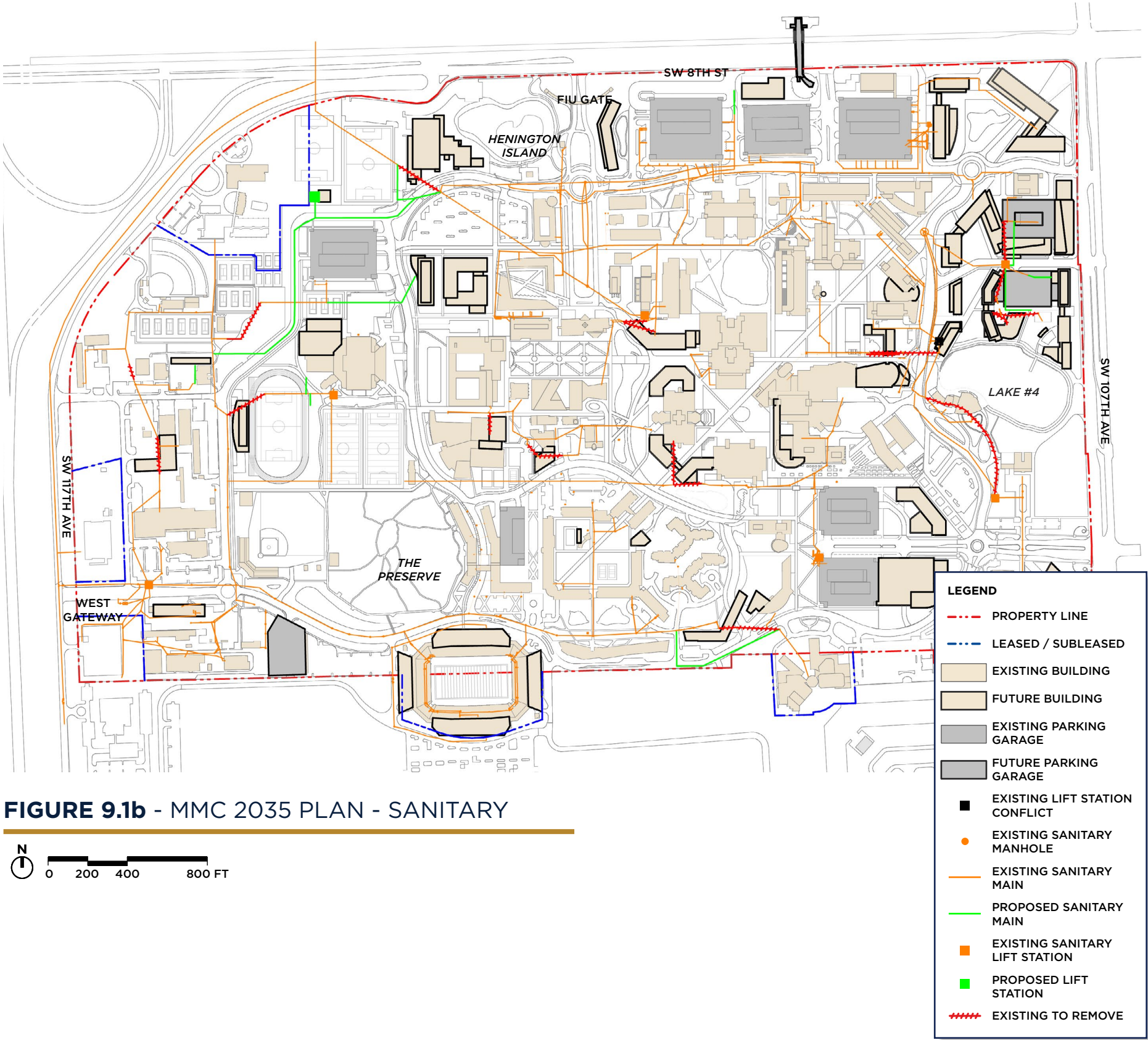




FIGURE 9.2b - EC 2035 PLAN - SANITARY

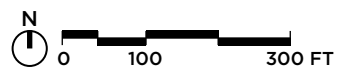
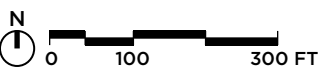


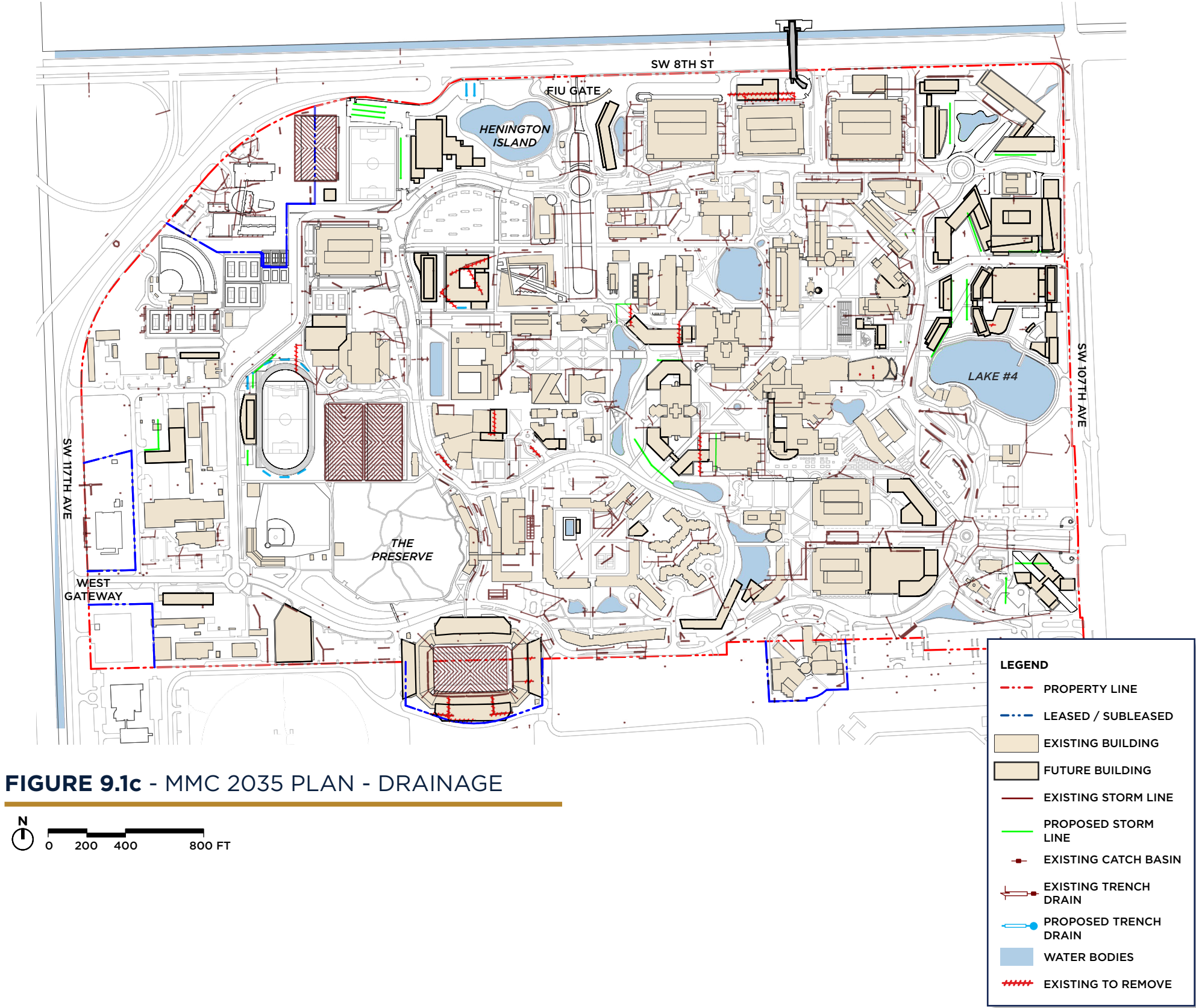
FIGURE 9.3b - BBC 2035 PLAN - SANITARY



STORMWATER MANAGEMENT: FIU addresses stormwater management issues in the design and review process for each building project. Each project shall meet the County's criteria and will be submitted to the County for review. The stormwater management plan for Modesto A. Maidique Campus is a combination of percolation, overland flow, exfiltration systems and positive drainage systems with outfalls into existing onsite lakes. No offsite discharge connections exist, as all stormwater runoff is contained onsite.

The Engineering Center drainage system is designed to handle on-site stormwater runoff with a combination of exfiltration trenches, dry and wet retention areas, drainage swales, overland flow, and positive drainage pipe systems.

The stormwater management plan for the Biscayne Bay Campus is a combination of percolation, overland flow and exfiltration systems. The Biscayne Bay Campus stormwater management plan also utilizes positive drainage systems with outfalls both to onsite lakes and adjacent off-site water bodies. Currently, there are two outfalls to offsite surface water bodies located on the north and east sides of the site. The north outfall system consists of a 42-inch culvert and the east outfall consists of an 8" x 12" culvert.



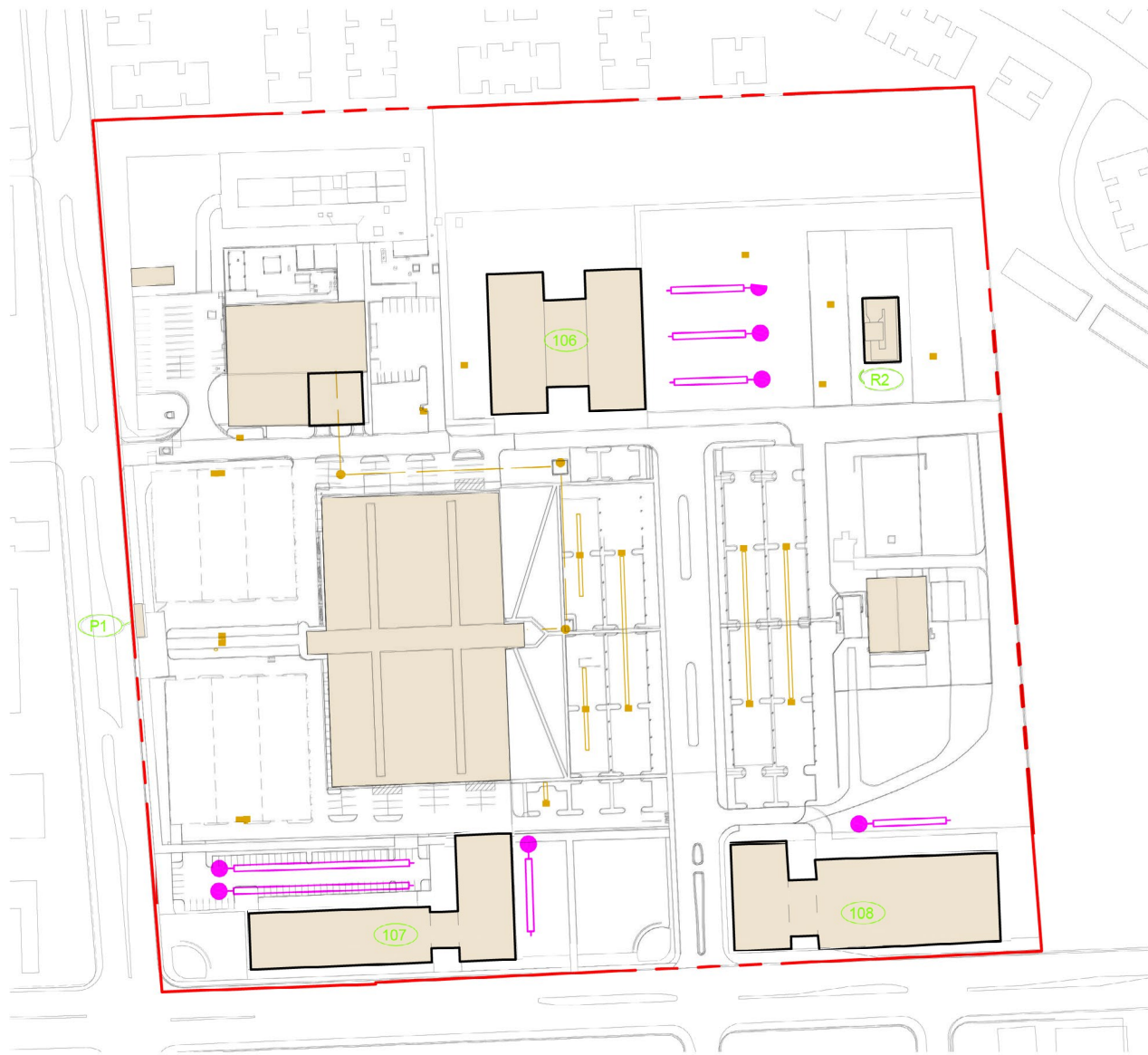


FIGURE 9.2c - EC 2035 PLAN - DRAINAGE

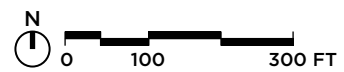
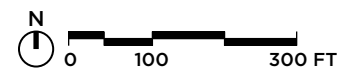


FIGURE 9.3c - BBC 2035 PLAN - DRAINAGE



10.0 UTILITIES

The purpose of this element is to ensure coordinated provision of utility services required to meet the future needs of the University, consistent with current efforts to address sustainability on campus such as the development of a Climate Action Plan (a responsibility as a signatory of the American College and University Presidents Climate Commitment) and the University-driven direction that all new facilities meet United States Green Building Council (USGBC) standards and target LEED Gold or equivalent as minimum criteria. This element includes the following:

- 1. Provision of a chilled water supply
- 2. Provision of electric power supply and other fuels

CHILLED WATER: The facility expansions proposed in this Campus Master Plan will require a number of improvements to the chilled water generation and distribution system on the MMC Campus. The central chiller plant will need to be upgraded to pump chilled water to all proposed growth areas. Energy efficiency will need to be optimized for generating and pumping equipment. And plant capacity will need to be expanded to satisfy the higher chilled water demands imposed by new buildings.

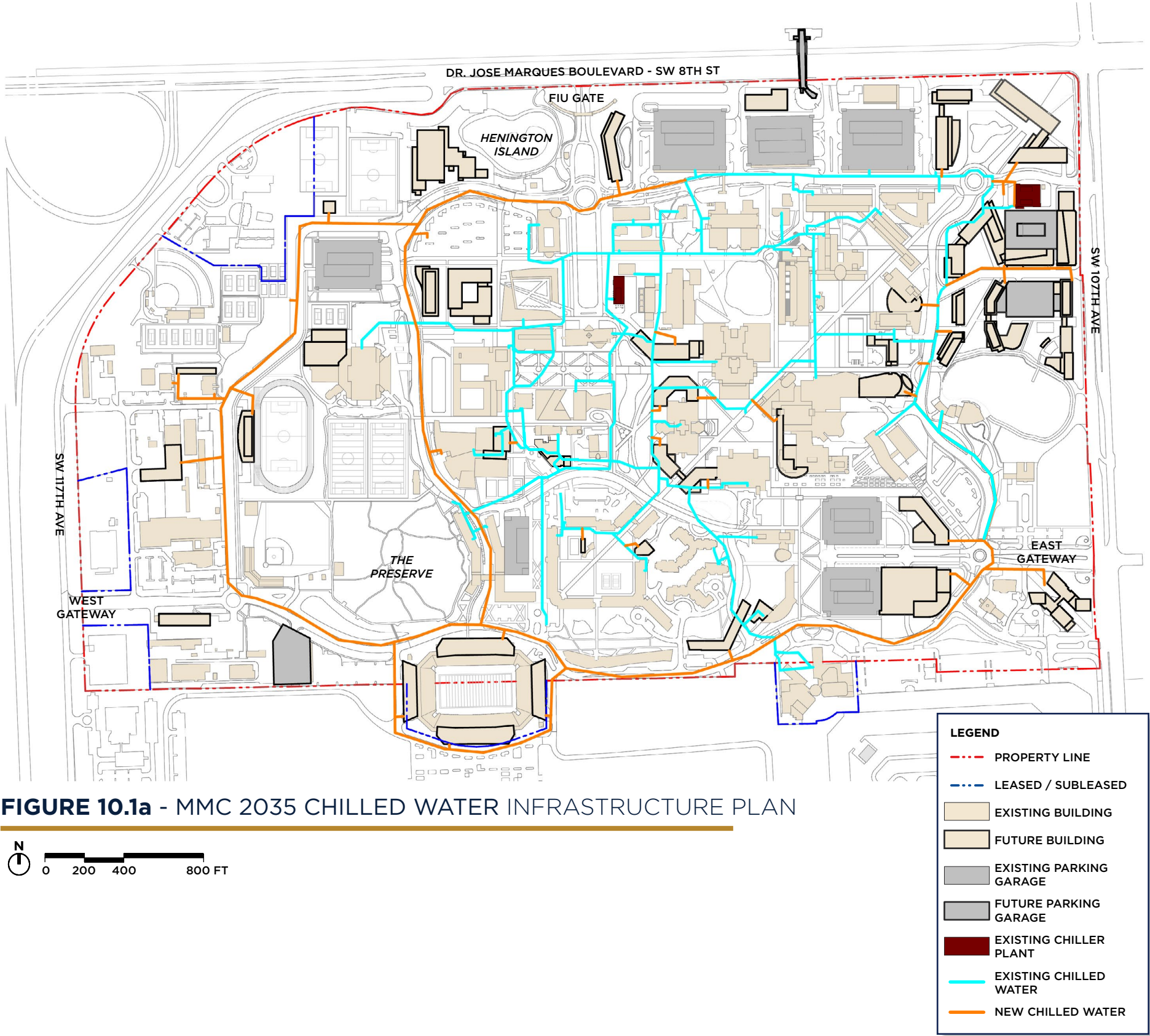


FIGURE 10.1a - MMC 2035 CHILLED WATER INFRASTRUCTURE PLAN



FIGURE 10.2a - EC 2035 CHILLED WATER INFRASTRUCTURE PLAN

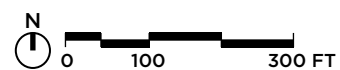
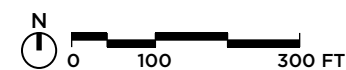


FIGURE 10.3a - BBC 2035 CHILLED WATER INFRASTRUCTURE PLAN



ELECTRICAL POWER: Electrical energy is furnished to Florida International University by Florida Power and Light (FP&L). They master plan their facilities to satisfy all campus expansion. Close coordination must be maintained with them so the needs of new buildings are provided for. Additionally, FP&L offers various incentive programs that may be used by the University to improve the energy consumption of their lighting and chiller systems.

TELECOMMUNICATIONS: The existing telecommunications grid has been heavily used in some areas of MMC. The planning priorities are to expand the grid to serve new buildings and to reinforce the existing grid by adding new duct banks. Another area of development is the creation of a second feed at MMC so the grid has the reliability of two sources of off-campus communication.

For all updated information pertaining to utilities and infrastructure, a copy of the *Utility Infrastructure Survey Update* is on file in the offices of FIU Facilities Planning and Construction.

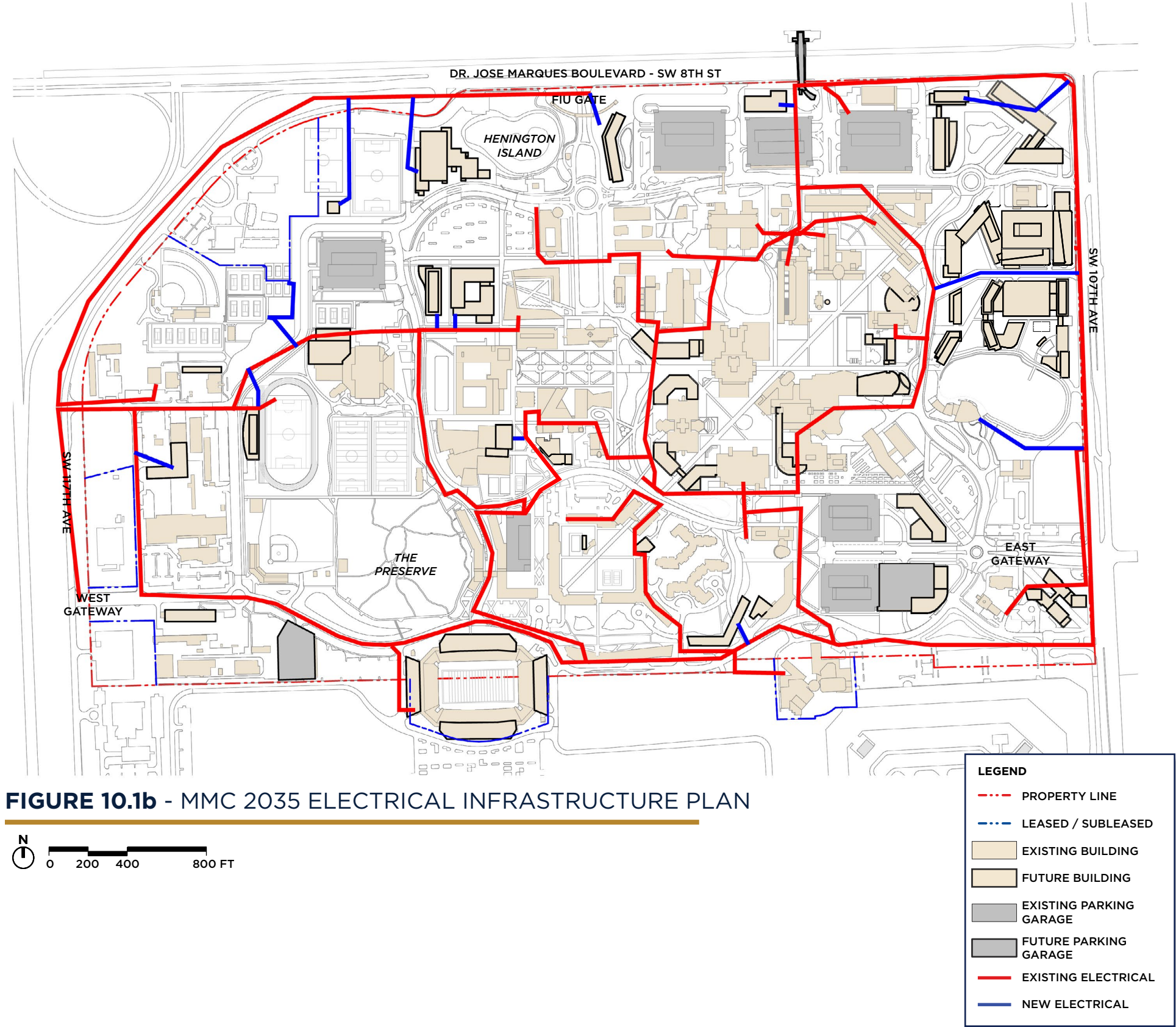


FIGURE 10.1b - MMC 2035 ELECTRICAL INFRASTRUCTURE PLAN

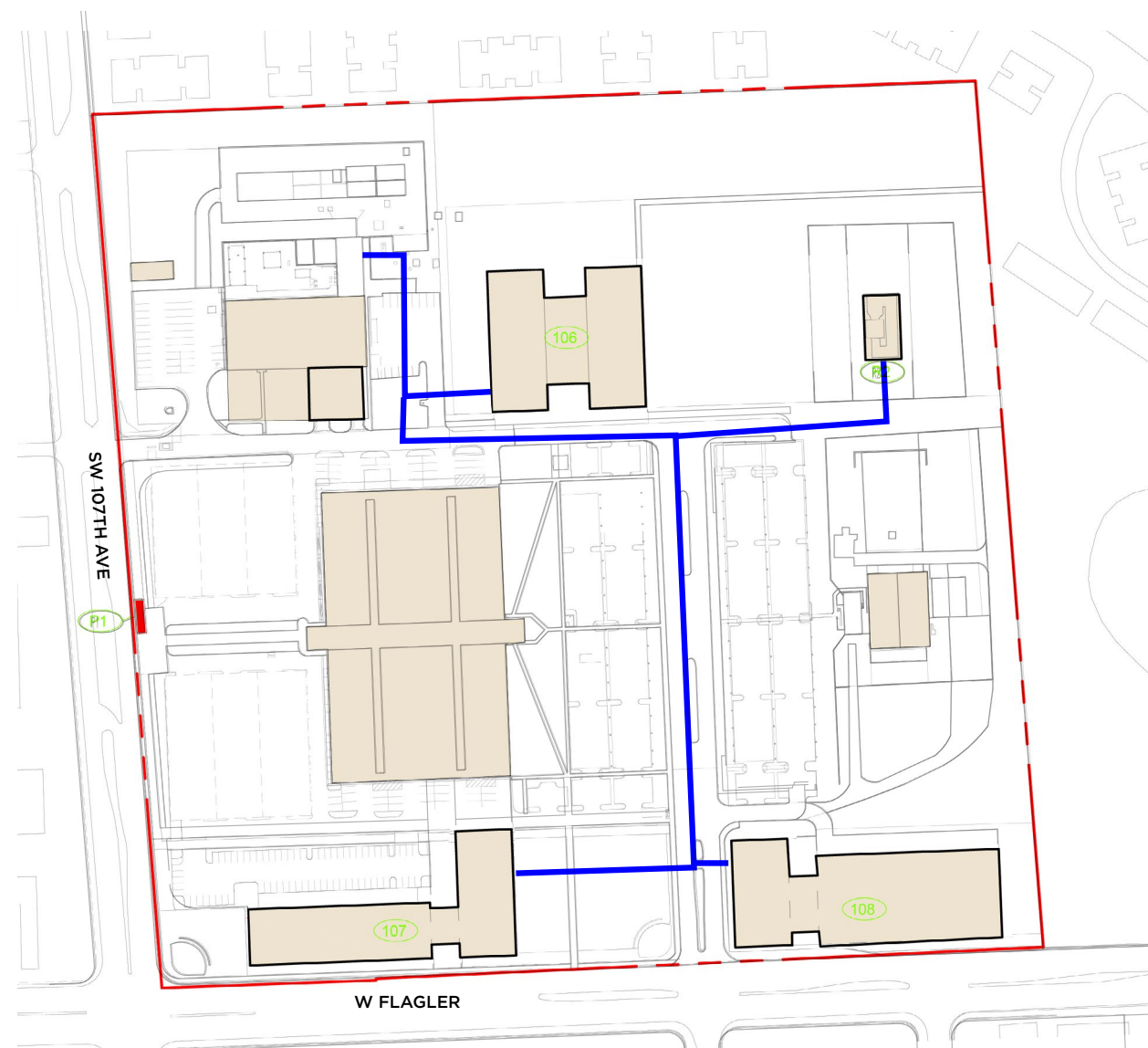


FIGURE 10.2b - EC 2035 ELECTRICAL INFRASTRUCTURE PLAN

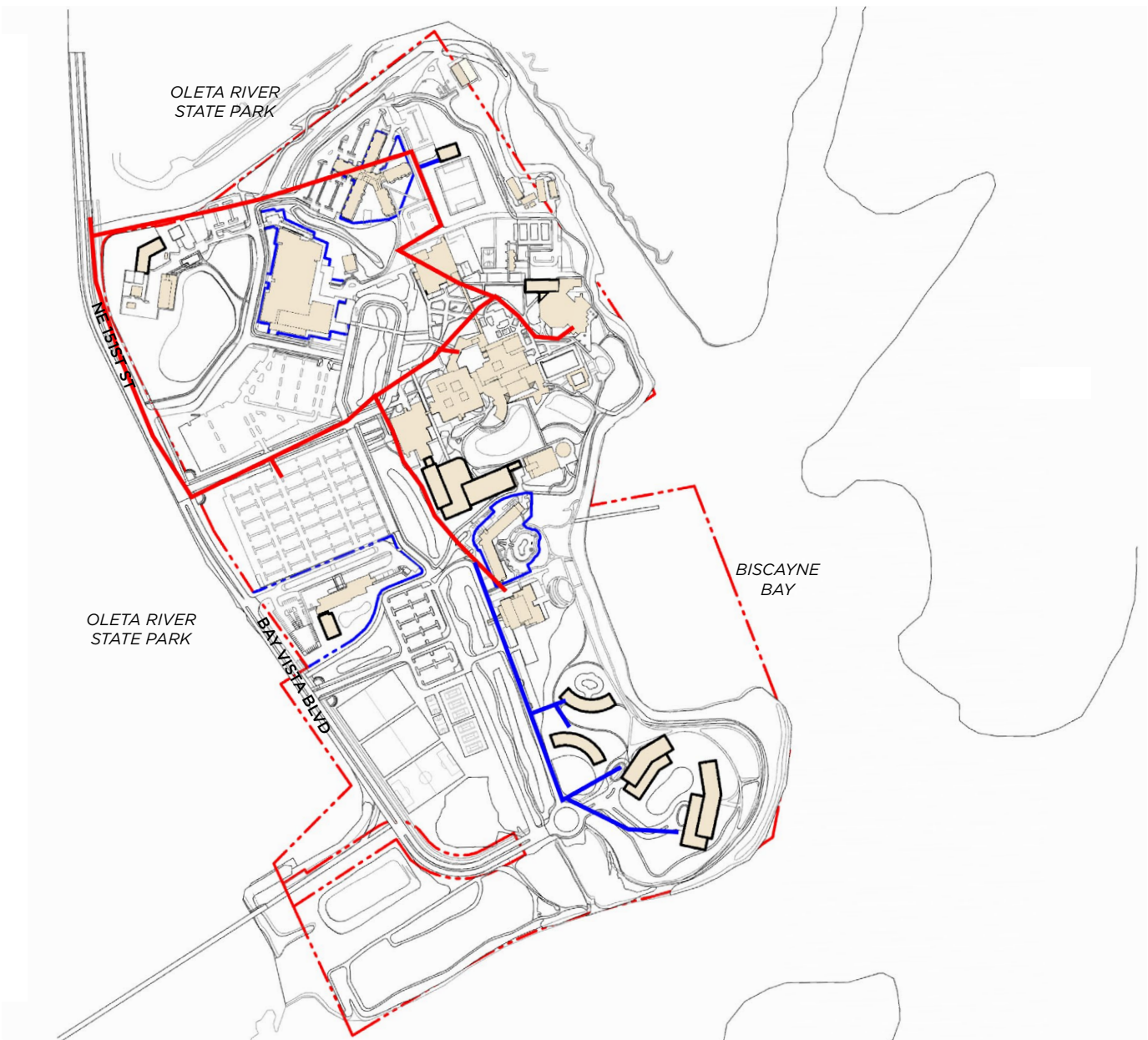
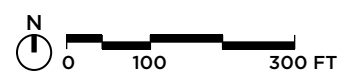
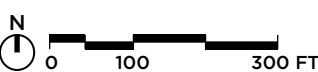


FIGURE 10.3b - BBC 2035 ELECTRICAL INFRASTRUCTURE PLAN



11.0 TRANSPORTATION

For all campuses, FIU’s goal is to increase multi-modal access, aligning with our strategic objectives to enhance the FIU experience by ensuring safe, sustainable, and inclusive access for students, faculty, staff, and visitors. By employing a range of innovative strategies, FIU is committed to increasing accessibility and mobility, while simultaneously reducing our carbon footprint, in support of our broader mission of sustainability, and environmental stewardship. This approach is integral to fostering an interconnected, dynamic campus environment that supports our academic and research goals, as well as our mission-aligned engagement with the community.

Transit
Florida International University will continue to coordinate with its respective host communities and Miami-Dade Transit to create additional opportunities for improved and more frequent public transportation, additional bus stops near campus, and enhanced bus stops with amenities such as shelters and landscaping. Both the Modesto A. Maidique Campus and the Engineering Center will provide major transit hubs for evolving bus rapid transit programs to serve the University and local community.

Traffic Circulation
Improvements to existing infrastructure are needed to alleviate the demand placed on roadways from the current University population as well as accommodate future growth. Intersection and lane improvements adjacent to each campus have been identified. Coordination with Miami-Dade County and FDOT is needed to ensure proper and successful execution of these recommended improvements. In addition, the incorporation of safe and efficient bicycle lanes for commuting students is required both off and on campus. Streetscape improvements to perimeter streets, access drives, and campus roads are required to promote a safe, secure, and comfortable pedestrian-oriented environment to complement the street network.

FIU shall coordinate proposed improvements along SW 8th Street and SW 107th Avenue with Florida Department of Transportation. Improvements along SW 117th to be coordinated with Department of Transportation and Public Works in accordance with the Transportation Improvement Program and Long Range Transportation Plan.

Parking
Parking demand and availability continues to be a challenge for FIU. While both the Engineering Center and Biscayne Bay Campus have adequate available land for additional parking facilities, the Modesto A. Maidique Campus has limited available land and road capacity. This lack of capacity has led to the recommendation in this plan for multi-purpose parking structures at the campus edge to reserve land within the academic core. In order to manage parking demand and reduce the need for additional parking facilities, FIU will continue to promote alternatives to traditional commuting such as improved transit, carpooling, additional on-campus student housing, new off-campus housing with campus connectivity, eLearning and hybrid class modules, and flexible work schedules.

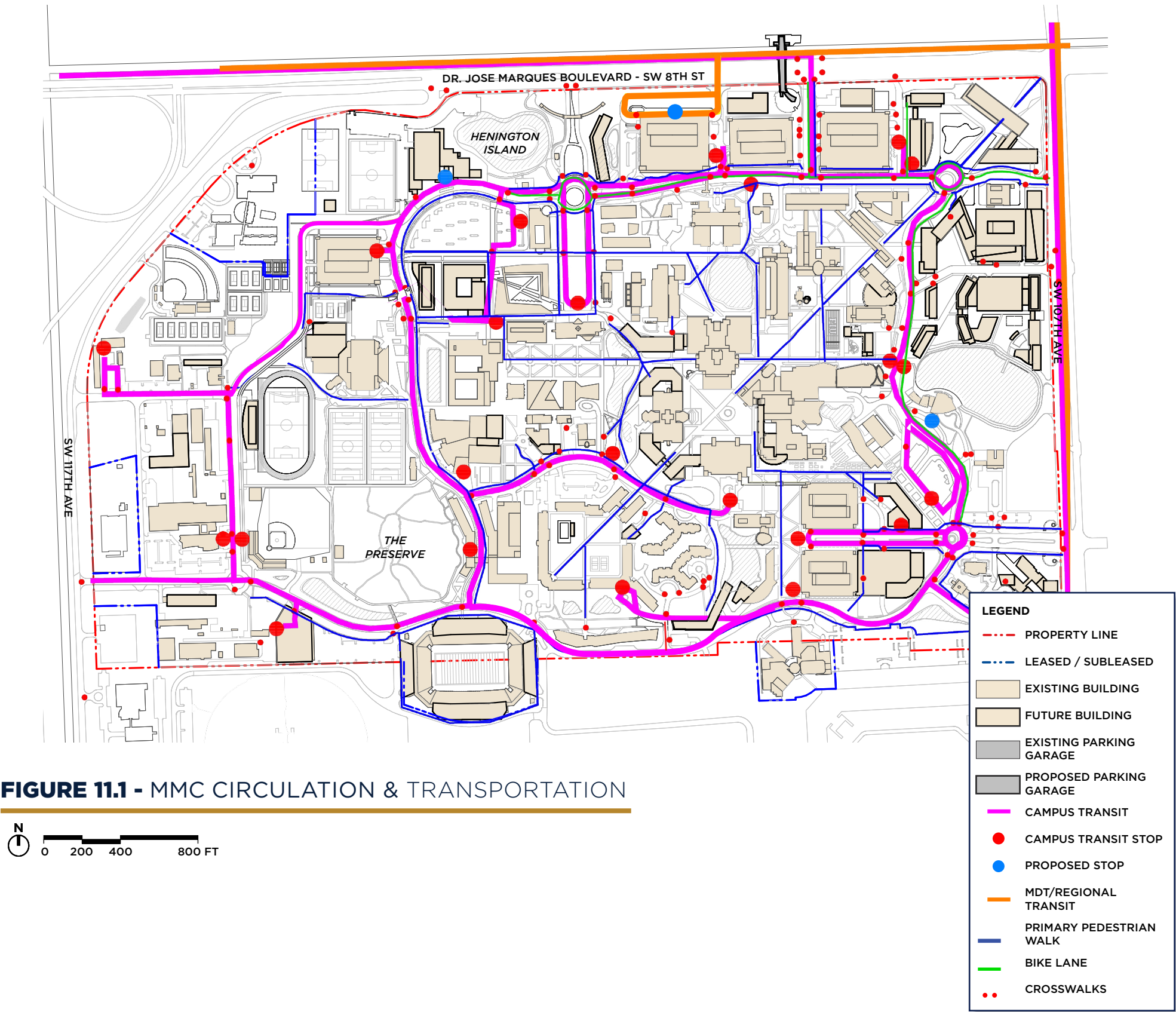


FIGURE 11.1 - MMC CIRCULATION & TRANSPORTATION

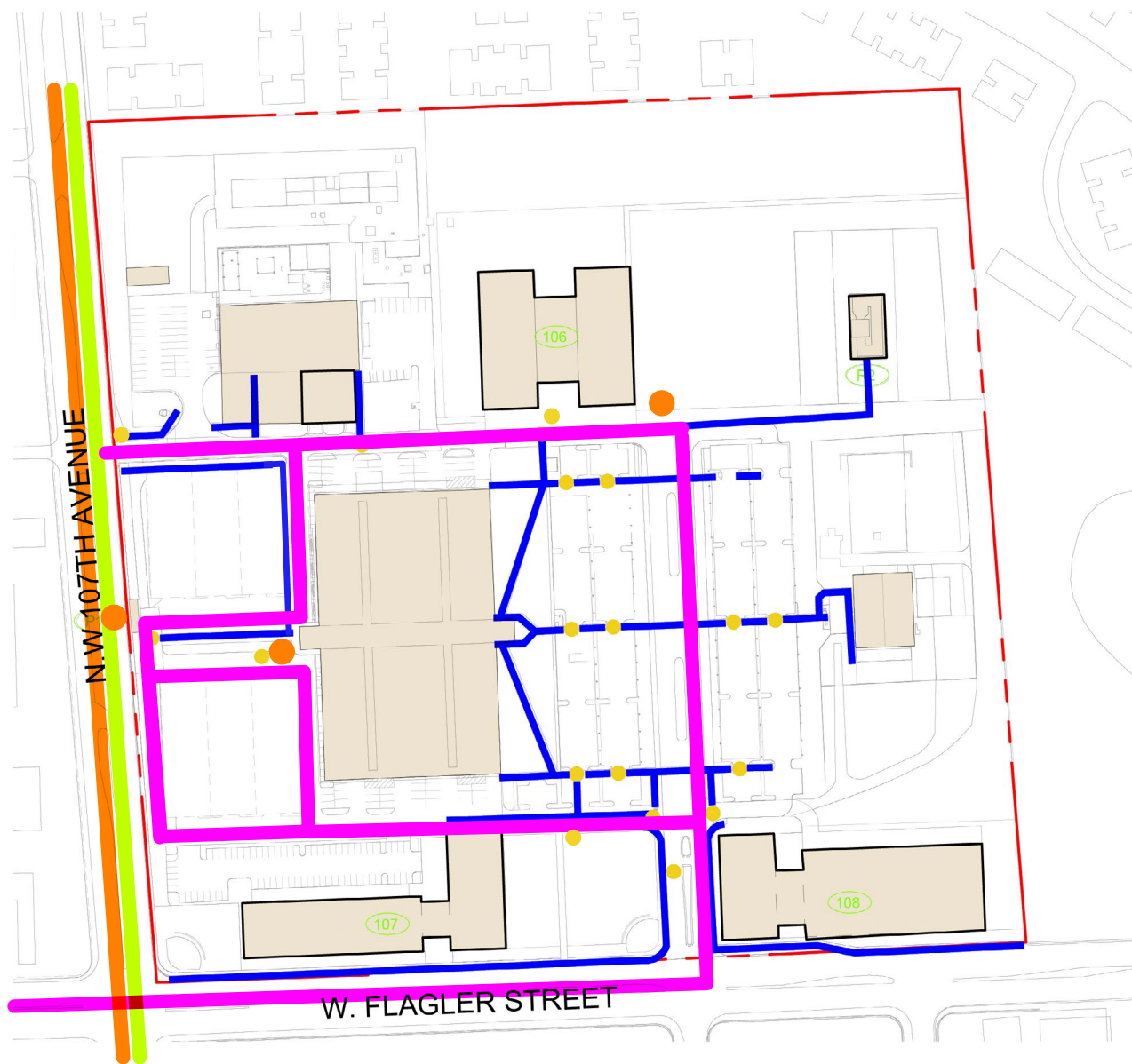


FIGURE 11.2 - EC CIRCULATION & TRANSPORTATION

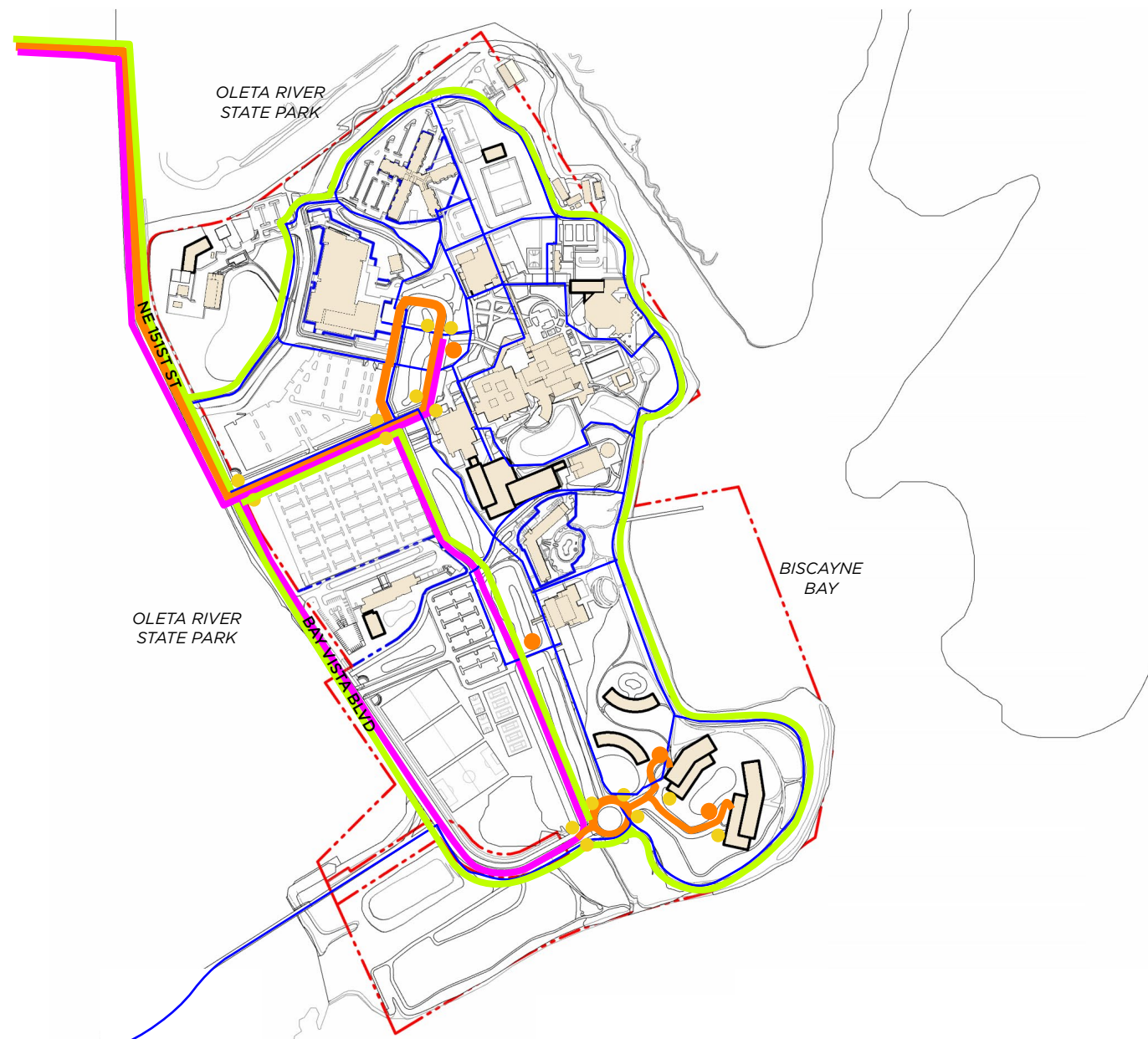
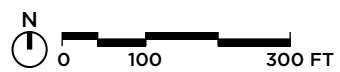
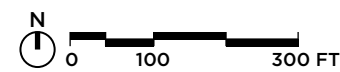


FIGURE 11.3 - BBC CIRCULATION & TRANSPORTATION



12.0 INTERGOVERNMENTAL COORDINATION

Florida International University's comprehensive planning process strategically aligns with our goals to enhance the FIU experience and fosters engagement in our focus areas of environmental resilience, health, and technological. This process involves dynamic interaction among our people, programs, amenities, and the crucial elements of our surrounding host communities, jurisdictions, and governmental agencies. Essential to this comprehensive planning are cooperation, consideration, and coordination, which support our objectives to strengthen collaborative relationships with Miami-Dade County, the City of North Miami, and the City of Sweetwater, enhancing community integration and promoting sustainable development.

Cooperation

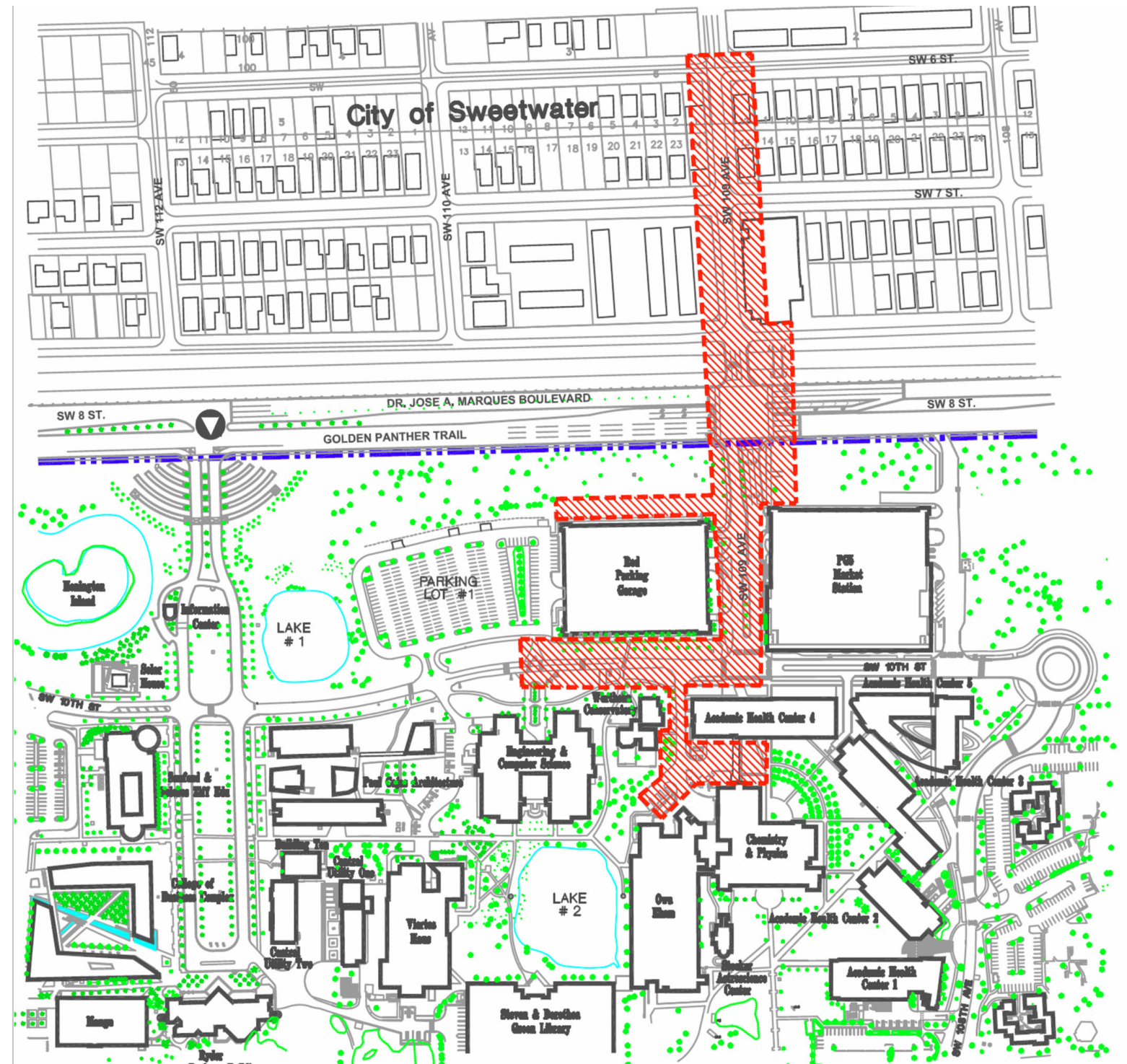
This Campus Master Plan recognizes the importance of adhering to existing regulatory frameworks at local, state, and federal levels. FIU is committed to cooperating with regulatory agencies to ensure compliance and foster environments that support our strategic focus on environmental sustainability, health initiatives, and the integration of innovative technologies. This includes the Sweetwater “University” Initiative and the TIGER Grant, which are pivotal in enhancing educational and business collaborations that benefit both FIU and the broader community.

Consideration

As a major economic force, FIU is mindful of its impact on planning, resources, and development patterns in its host communities. The university aims to ensure that its projects not only comply with but enhance the surrounding land uses, contributing positively to the community's socioeconomic and environmental fabric.

Coordination

Intergovernmental coordination focuses on collaborative planning, decision-making, and development reviews, essential for advancing FIU's strategic goals in health, environment, and technology. This Campus Master Plan outlines specific needs for coordination to address unique challenges, ensuring that all planning activities support the University's commitment to sustainability and innovation. In cooperation with the Miami-Dade County Office of Historic Preservation, FIU shall consider impacts of the Campus Master Plan to cultural resources for structures that meet the 50-year or older benchmark for historic resource eligibility such as a Cultural Resource Assessment Survey or Florida Master Site File Historical Structure Forms in the interest of preservation and adaptive reuse for historic structures.





13.0 CONSERVATION

To appropriately manage native vegetative communities and wildlife habitats, campus expansion at FIU will adhere to local, state, and federal regulations, aligning with our strategic focus on environmental resilience. Where practicable, our efforts will conform to various agency guidelines and emphasize the use of native vegetation. We will strive to avoid or minimize wetland impacts and establish upland buffers adjacent to wetlands, implementing mitigation strategies where unavoidable impacts occur. Where possible, undeveloped upland habitats will be preserved in their natural state, protecting biodiversity and supporting the health and wellness of our campus communities.

Natural resources are present at the Modesto A. Maidique Campus, Engineering Center, and Biscayne Bay Campus. These resources, many of which are protected, will continue to be preserved to support the environmental and educational goals of FIU, integrating with our commitment to sustainability and research innovation. Parcels will be assessed for their ecological value and potential for protection or development, ensuring that our development is not only sensitive but also strategically aligned with our mission to enhance natural resources alongside academic and infrastructural growth. To minimize adverse impacts to local air quality and maintain existing good air quality conditions, FIU will manage its stationary sources of air discharges through an organized preventative maintenance and inspection program. Points of discharges such as boilers and laboratory flues will be inspected regularly to ensure that their operations are within applicable regulatory standards. Implementation of preventative maintenance of stationary sources will reduce the probability of unexpected releases of air pollutants as well as establish a reliable management tool. It is also recommended that FIU follow the nine landscape principles of the Florida-Friendly Landscaping Program as detailed by the University of Florida Institute of Food and Agricultural Sciences.

Miami-Dade County provides landscape assessments as part of its Landscape Irrigation Rebate Program. In addition, upgraded fixtures by FIU may qualify for rebates when certified by the Miami-Dade County Water Conservation Program.

Where possible, less hazardous materials will be substituted for more hazardous materials. The purpose of this replacement is to reduce the potential for more serious accidents affecting the environment, reduce the generation rate of hazardous waste on campus, and reduce the volume of hazardous wastes contributed by the University to landfills elsewhere. It is an objective of the University to minimize hazardous waste accumulation points on campus and implement a system of Best Management Practices to safely manage these locations.

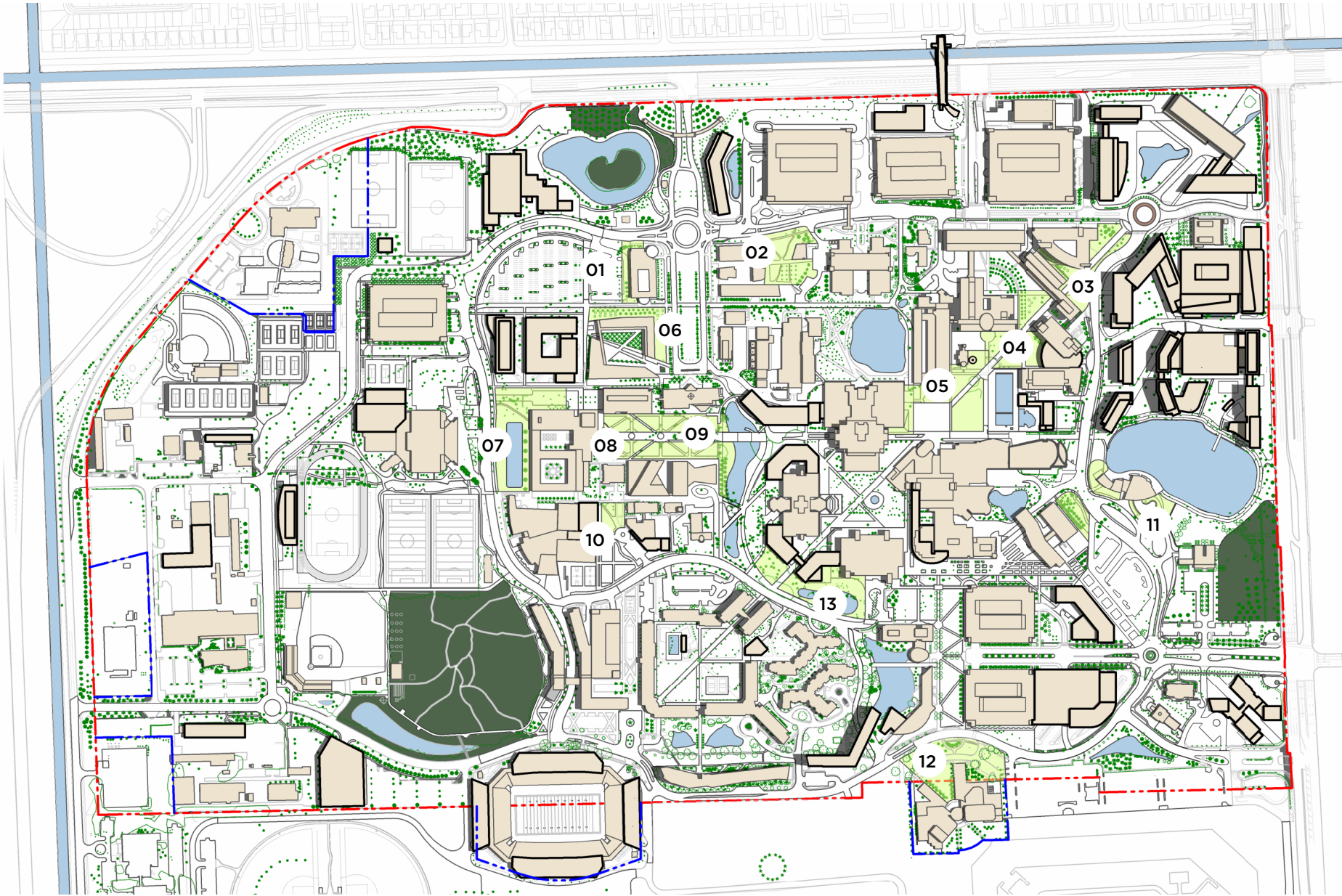
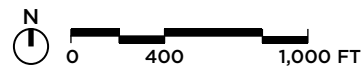


FIGURE 13.1 - MMC 2035 PLAN - CONSERVATION



LEGEND

PROPERTY LINE

POTENTIAL ARBORETUM EXHIBITION

SPECIAL PURPOSE LANDSCAPE

EXISTING TREES

FIU BUILDING

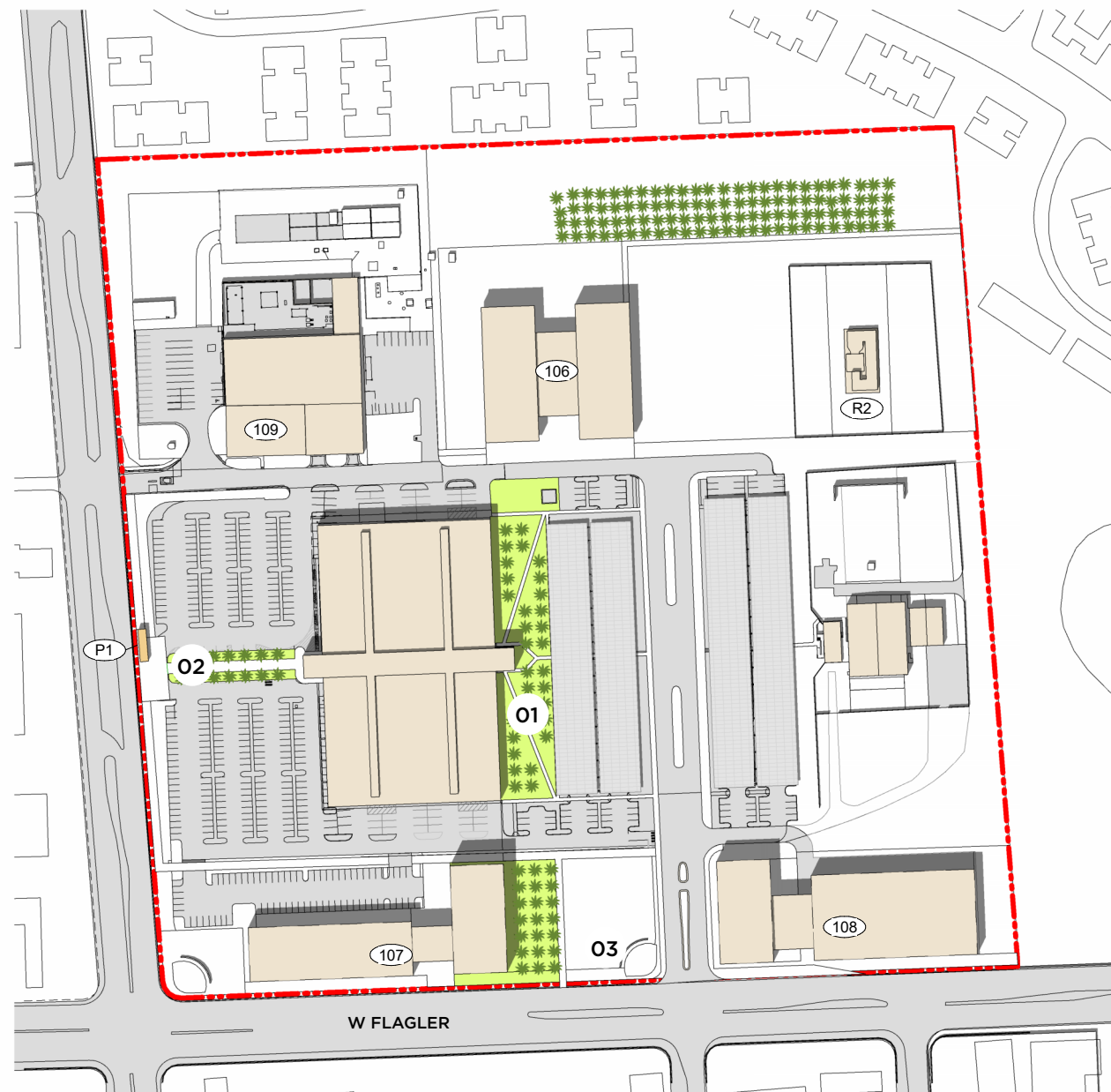


FIGURE 13.2 - EC 2035 PLAN - CONSERVATION

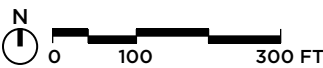
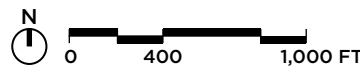


FIGURE 13.3 - BBC 2035 PLAN - CONSERVATION



14.0 CAPITAL IMPROVEMENTS

Given the anticipated renovation, repurposing, new construction, and redevelopment needed to accommodate projected future growth at FIU, identifying and supporting funding mechanisms required for program and enrollment expansion is crucial. This process aligns with our strategic goals to enhance the FIU experience, foster innovation, and ensure environmental resilience. Implementation of the Campus Master Plan is contingent upon the strategic and efficient use of State University System (SUS) funds, FIU funds, revenues from public partnerships, private investments, and support from alumni and donors. To diversify funding sources, the University will explore various options including private gifts, grants, revenue generation, and partnerships to support campus improvements that promote health, technology advancement, and sustainable practices.

This Campus Master Plan outlines both current projects and those scheduled for later completion within the 2035 planning period. While immediate projects have funding allocated, future projects may face unforeseen funding and phasing complexities, necessitating a flexible plan that adapts to changes and enhances effectiveness through annual updates and continual monitoring. The goals, objectives, and policies of the Capital Improvements Element are designed to implement this Campus Master Plan in the most efficient and fiscally responsible manner, supporting our comprehensive strategy to advance academic and infrastructural development.

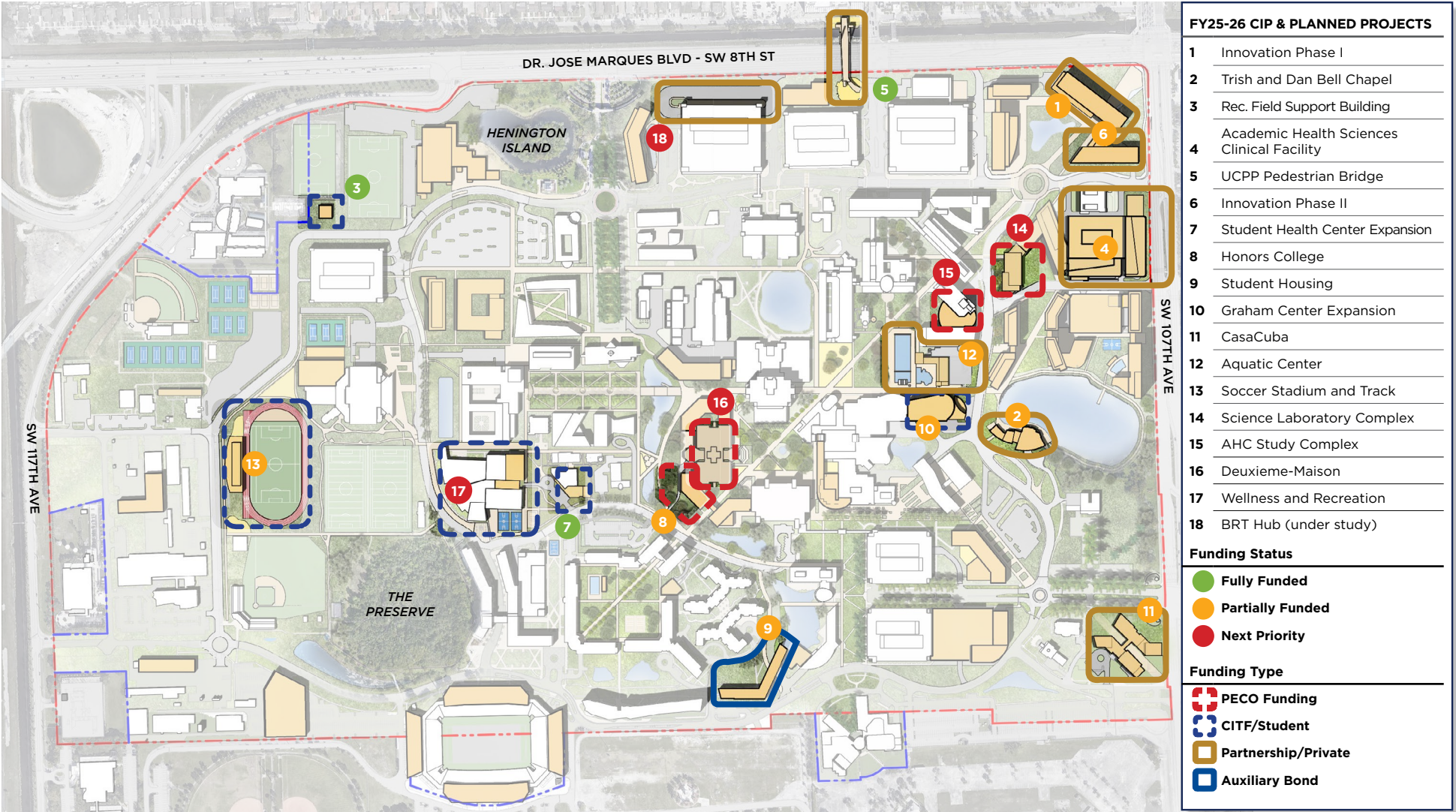


FIGURE 13.1 - MMC 2035 PLAN - CAPITAL IMPROVEMENT PLAN

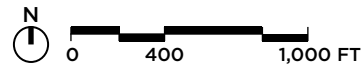




FIGURE 13.2 - EC 2035 PLAN - CAPITAL IMPROVEMENT PLAN

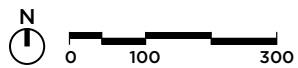
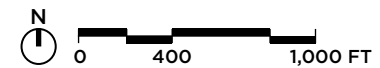


FIGURE 13.3 - BBC 2035 PLAN - CONSERVATION





48 48A FIU INNOVATION CENTER



50 TRISH AND DAN BELL CHAPEL

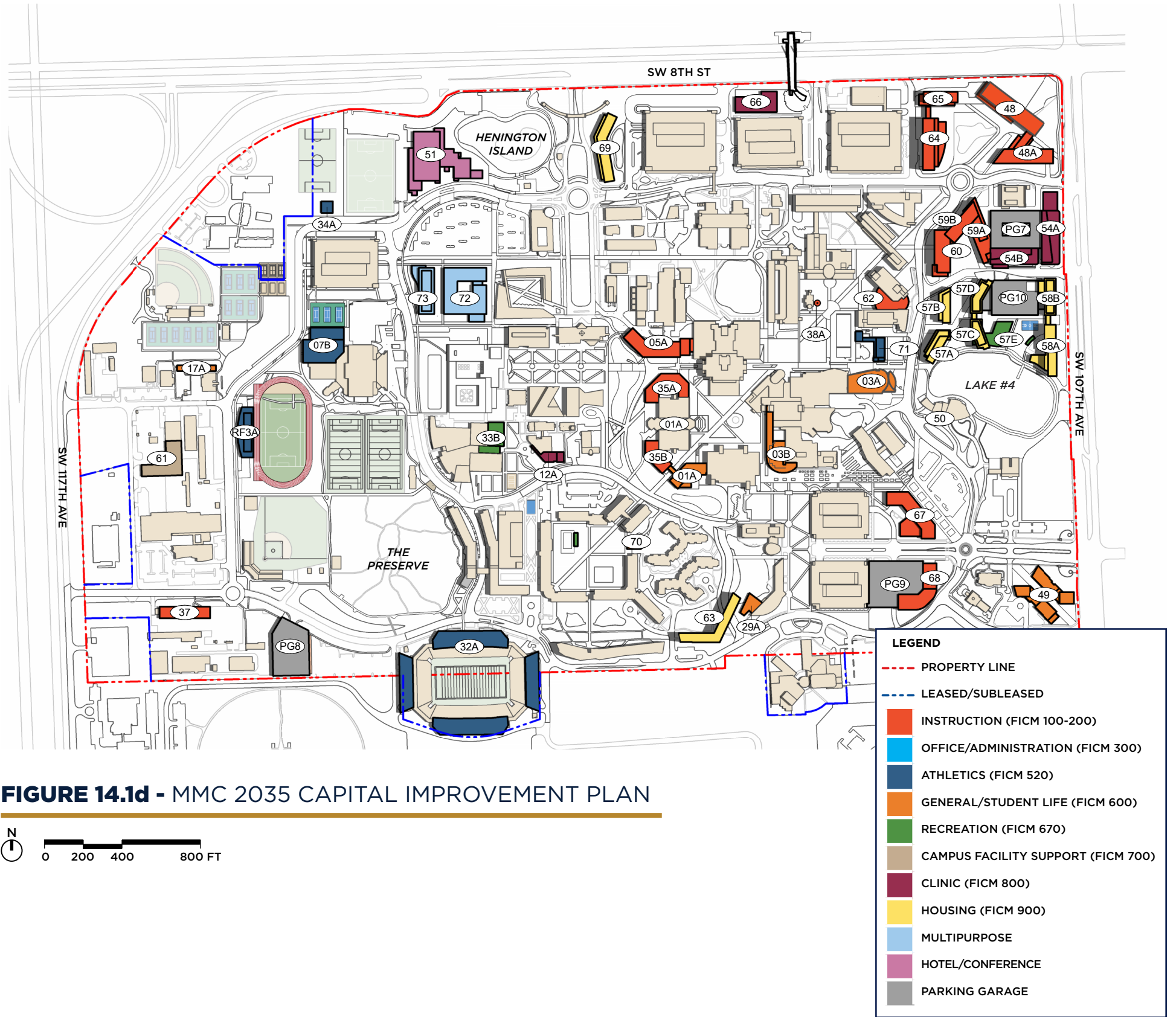




FIGURE 14.2b - EC 2035 CAPITAL IMPROVEMENT PLAN

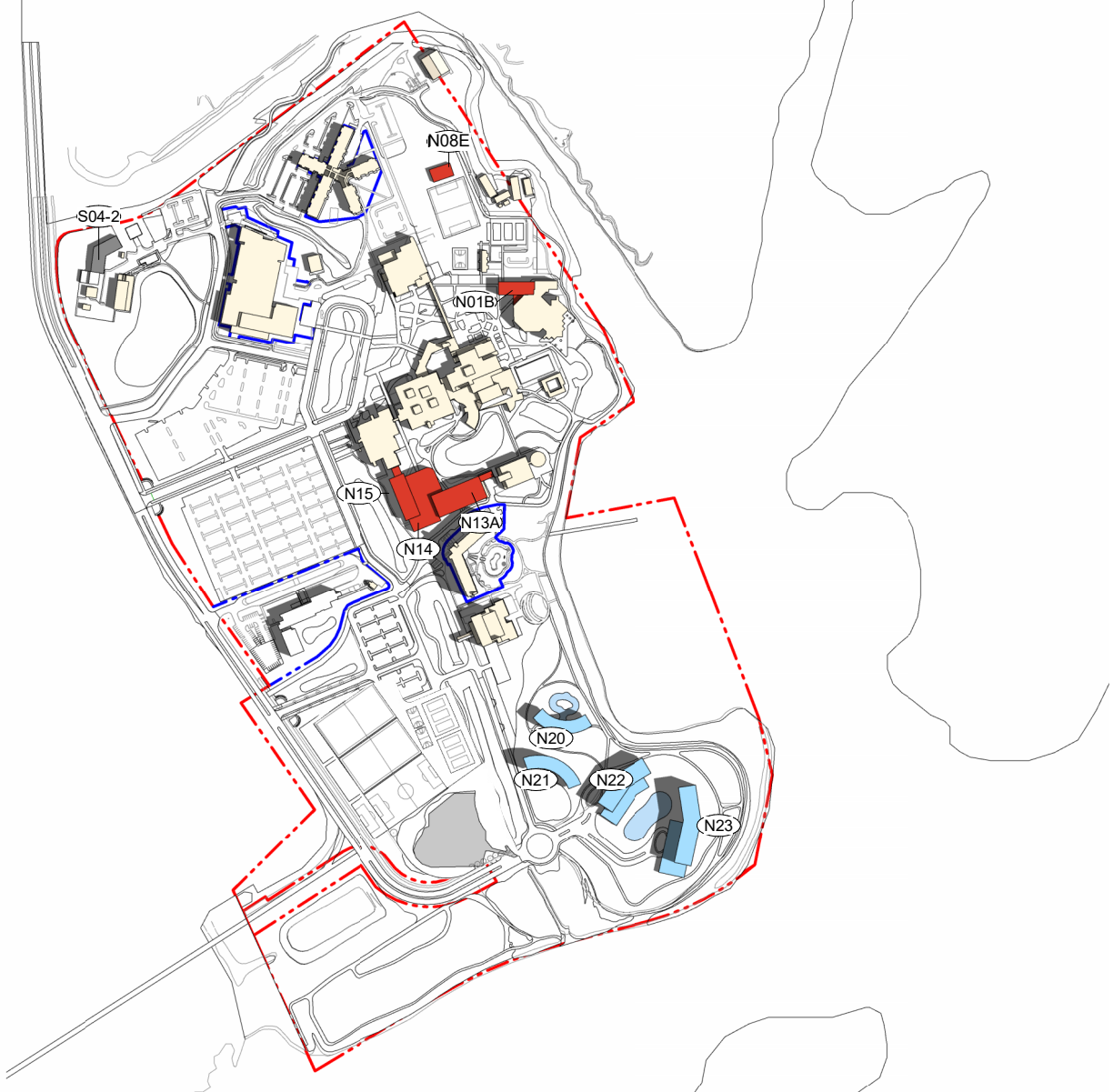
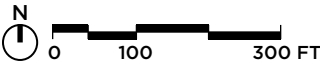
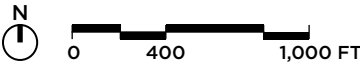


FIGURE 14.2c - BBC 2035 CAPITAL IMPROVEMENT PLAN





70 HOUSING DINING FACILITY



12A STUDENT HEALTH CLINIC EXPANSION

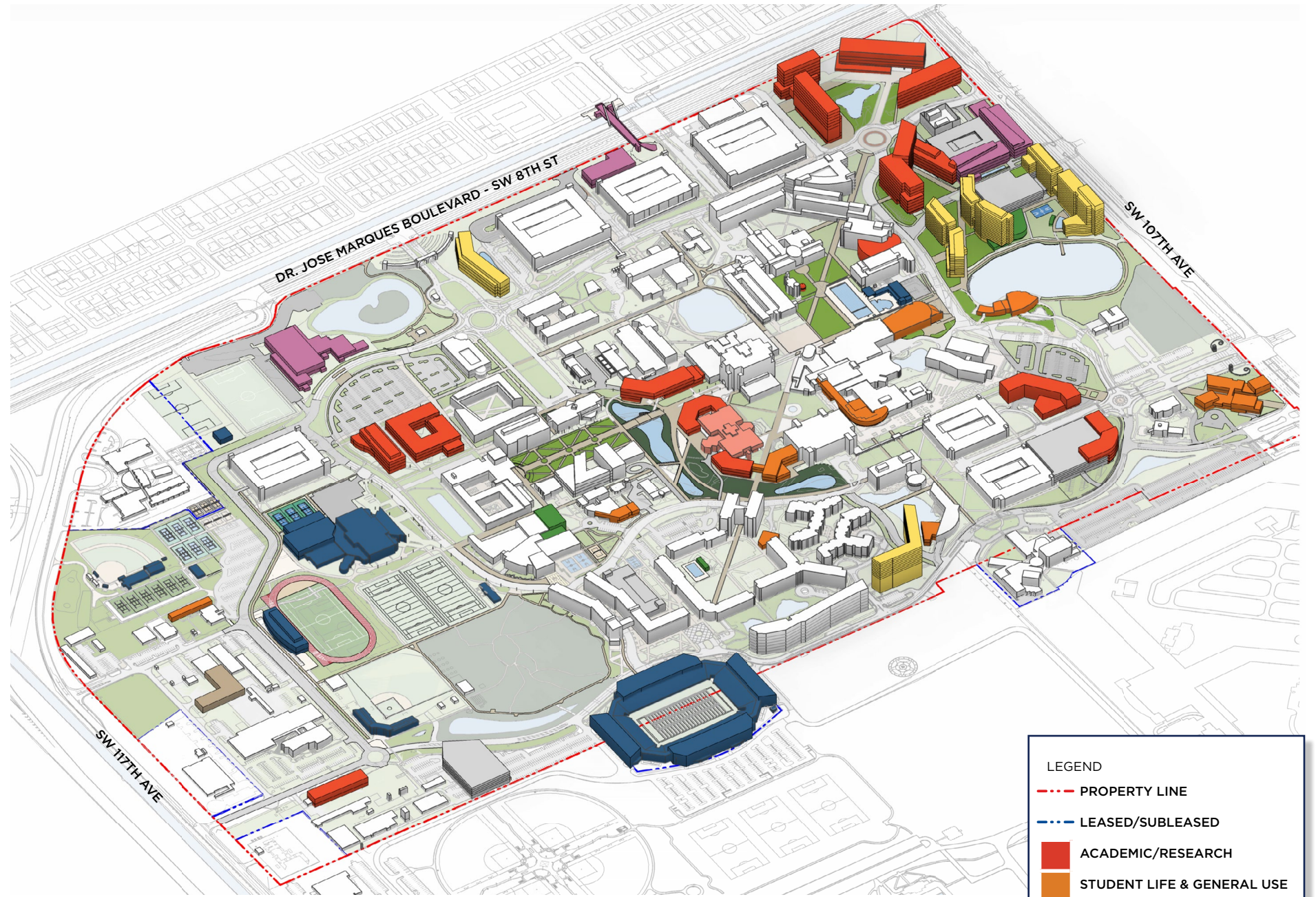


FIGURE 0.2b - MMC 3D DIAGRAM - 2035 FACILITY PLAN



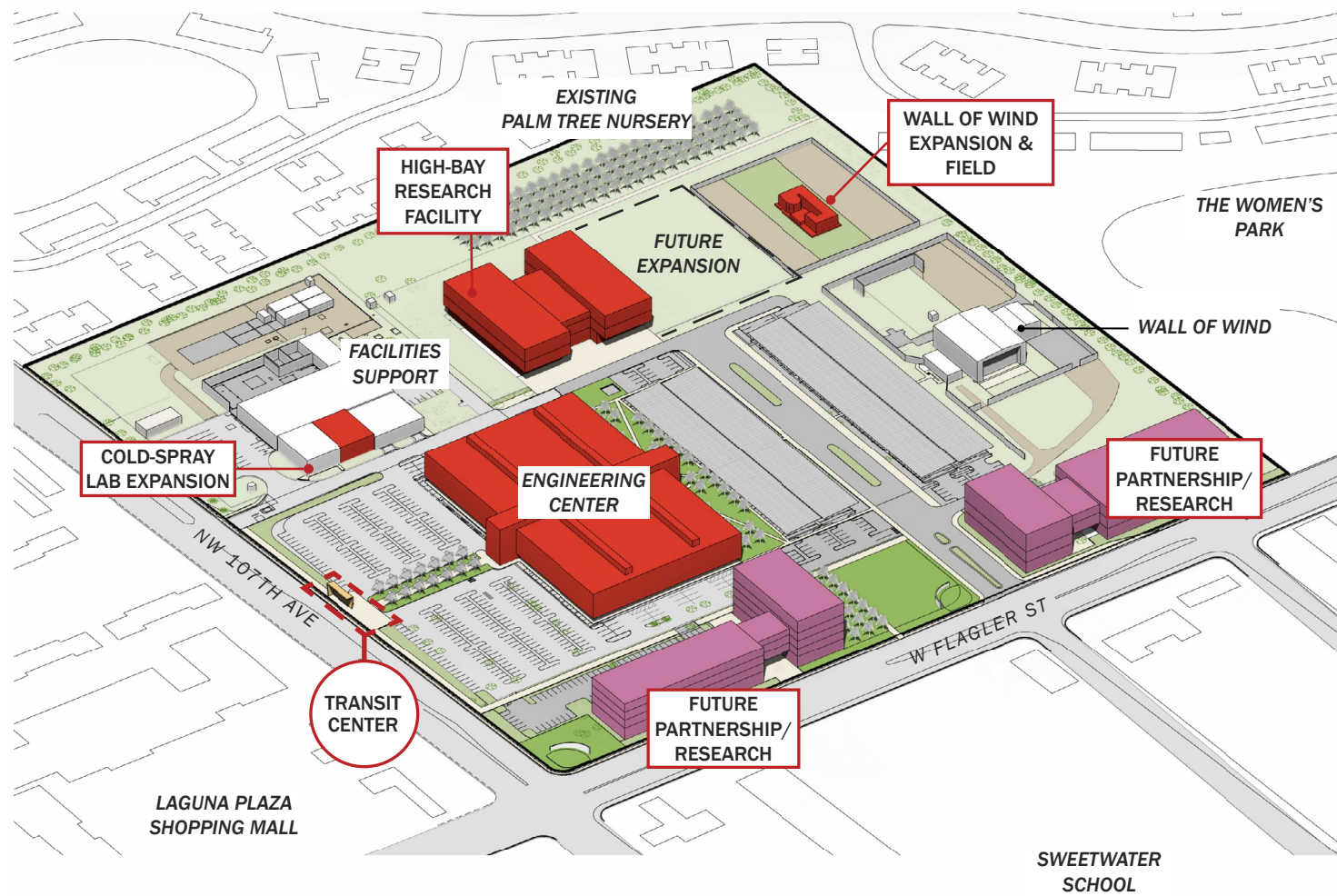


FIGURE 0.3b - EC 3D DIAGRAM - 2035 FACILITY PLAN



FIGURE 0.4b - BBC 3D DIAGRAM - 2035 ILLUSTRATIVE PLAN



15.0 ARCHITECTURAL DESIGN GUIDELINES

The Architectural Design Guidelines at FIU outline protocols and procedures for the development and design of university facilities, focusing not only on the exterior but also striving to meet programmatic, aesthetic, and strategic benchmarks related to our focus on environmental resilience, health, and technological innovation. These guidelines emphasize creating facilities that are contextually sensitive and sustainable, utilizing construction materials and techniques that align with our strategic pillars of enhancing the FIU experience, advancing top-tier research, and fostering mission-aligned engagement.

Five comprehensive goals have been developed to inform these guidelines, ensuring that our facilities not only enhance the image of higher education but also support the comprehensive goals of environmental sustainability, healthful living spaces, and innovative environments. These guidelines serve as the foundation for the development of FIU facilities and ensure that our urban design, landscape, and architectural efforts collectively support FIU's mission and create a cohesive campus fabric. With limited land available, our approach includes high-density, mid to high-rise developments to efficiently use space and support University partnerships.

Highlights of Architectural Design Guidelines include the following:

- Incorporating a Project Responsibility Checklist to assist in the process of following all necessary guidelines during the design and development of projects.
- Establishing Sustainable Design Guidelines and goals to help elevate the standards of energy efficiency and performance for all new buildings, as well as specifying principles and design drivers that will enhance pedestrian and outdoor environments.
- Outline the framework for an Integrated Design Process, to assure successful implementation of all Campus Master Plan guidelines.
- Establish the FIU Design Review Process, that will provide reviews and approvals of all designs within existing campuses to ensure adequate consideration of all guidelines and achieve goals within the Campus Master Plan. Faculty may request additional information and plans for designs under review.
- Establish Architectural Guidelines and Components to reinforce and work in partnership with the Urban and Landscape Design guidelines, the FIU Building Standards, and the University sustainability guidelines.



16.0 LANDSCAPE DESIGN GUIDELINES

Landscape design is a crucial element of the educational environment at FIU, enhancing the FIU experience and contributing to our strategic focus on environmental resilience, health, and innovation. Our Landscape Design Guidelines provide a framework to elevate the quality of both new and existing outdoor spaces, integrating sustainable practices consistent with USGBC standards and the American Society of Landscape Architects Sustainable Sites Initiative. These practices not only aim for LEED Gold or equivalent but also support our commitment to environmental stewardship. The guidelines ensure that our landscapes reflect the dynamic academic life by reinforcing main circulation routes with distinct treatments and connecting significant pedestrian corridors that link diverse academic hubs.

- Guiding principles for our campus landscapes include:
- Integrating architectural and landscape architectural designs early in the planning process to create attractive, functional settings that support both new and existing facilities.
- Developing prominent landscape features that grow with our campuses, including quads, plazas, and thematic avenues like the 'Avenue of the Arts' and 'Avenue of the Professions', enhancing the overall campus fabric and supporting our strategic pillars.
- Designing shaded pedestrian walkways furnished with movable chairs and tables to foster a vibrant outdoor campus environment conducive to health and well-being.
- Harmonizing new developments with the mature campus environment by preserving native vegetation and incorporating similar new plantings, ensuring that our growth is sustainable and integrates seamlessly with the natural landscape.
- Using a selective palette of indigenous and site-adaptive plant species to embody our subtropical locale and promote Florida Friendly Landscape principles, focusing on sustainable groundcover solutions like mulch from leafy and woody materials and permeable paving to enhance ecological and campus health and functional value.



17.0 FACILITIES MAINTENANCE

The Florida International University campus buildings showcase a rich history, originating from the 1970’s with some facilities that date back to the Modesto Maidique Campus’ earlier days as the original Miami-Dade airport. Today, the FIU campuses blend historic buildings with new “signature” gateway facilities. Recent construction introduces diverse architectural forms and employ evolving design languages that now resonate with our 2035 focus areas of environmental resilience, health, and technological innovation.

These architecturally significant elements require diligent maintenance, and careful review for any modifications, such as repainting, window and door replacements, and broader infrastructure changes.

Across FIU’s diverse portfolio of buildings, which reflects our dynamic evolution, it is crucial to harmonize building systems and materials while ensuring all facilities receive the necessary care to maintain their integrity and functionality. FIU’s Integrated Facility Maintenance Program prioritizes addressing facility deficiencies based on clear criteria and standards.

These maintenance efforts are now enhanced by sustainability principles, including Dark Sky compliant lighting, ABA bird safety glass guidelines, and the use of non-toxic products to promote a healthier, more sustainable campus environment.

The Campus Master Plan’s goals, objectives, and policies call for an expanded maintenance program, incorporating a structured schedule for routine, preventative, and deferred maintenance, alongside strategic renovations and repurposing to meet both current and future facility needs, thereby supporting our strategic objectives and ensuring our campuses continue to serve as vibrant, functional, and inspiring spaces for all.



18.0 COASTAL MANAGEMENT ELEMENT

The Biscayne Bay Campus of Florida International University, situated in a unique sub-tropical, coastal setting, exemplifies the integration of FIU’s strategic pillars and focus areas—enhancing the FIU experience, advancing research, and fostering mission-aligned engagement with a particular emphasis on environmental resilience, health, and technology/innovation. This coastal environment poses unique challenges for our Master Planning process, including maximizing the benefits of this locale while mitigating vulnerabilities to hurricanes, tropical storms, and flooding, and simultaneously safeguarding critical natural resources.

In response to legislative mandates, the State University System requires an assessment of each campus’s facilities to ensure adequate public shelter space for our community in times of disaster, aligned with local emergency management partnerships. This assessment is crucial in designing facilities that are not only safe shelters but also embody our commitment to sustainability and resilience.

Additionally, our Master Plan emphasizes coordination with the Department of Environmental Resources Management (DERM), especially critical at the Biscayne Bay Campus due to its proximity to shoreline and coastal wetlands. This includes complying with DERM regulations such as obtaining Class II permits for any discharges in Miami-Dade County and Class I permits for activities affecting tidal waters or coastal wetlands, ensuring that our development respects and enhances the campus’s natural settings while advancing our strategic goals.



LEGEND

- PROPERTY LINE
- EXISTING MANGROVES
- MANGROVE RESTORATION*
- WETLAND RESTORATION*
- SHORELINE VEGETATION
- SURFACE WATER
- BEACH RIP RAP SHORELINE
- EXISTING BUILDING
- FUTURE PROJECT



FIGURE 18.1 - BBC COASTAL MANAGEMENT PLAN

