

CAMPUS MASTER PLAN UPDATE 2010-2020

FIU | FLORIDA
INTERNATIONAL
UNIVERSITY

Transportation Element Focus Group Meeting #4



January 9, 2013

PERKINS+WILL

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Campus Master Plan 2010-2020

Meeting #4 Agenda

- 1. Review Schedule / December Minutes**
- 2. Review Campus Vision Plan**
- 3. Review Preliminary 2020 Concept Plan Elements**
 - a. Facility Use**
 - b. Land Use**
 - c. Open Space**
 - d. Circulation/Parking**

Master Planning Schedule

Inventory & Analysis

July-Oct 2012

Preliminary Alternative Concepts

Nov-Dec 2012

Concept Plan Development

Jan 2013

Draft Comprehensive Master Plan

Feb-July 2013

Final Comprehensive Master Plan

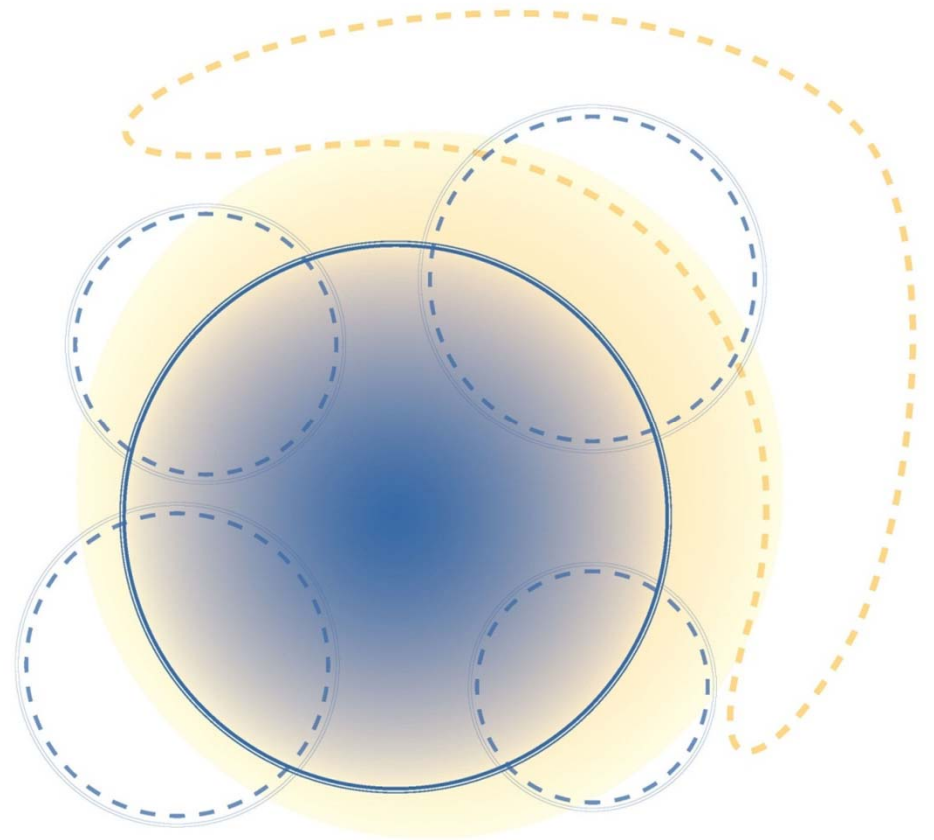
Aug-Dec 2013

BOT Approval of Master Plan

Dec 2013

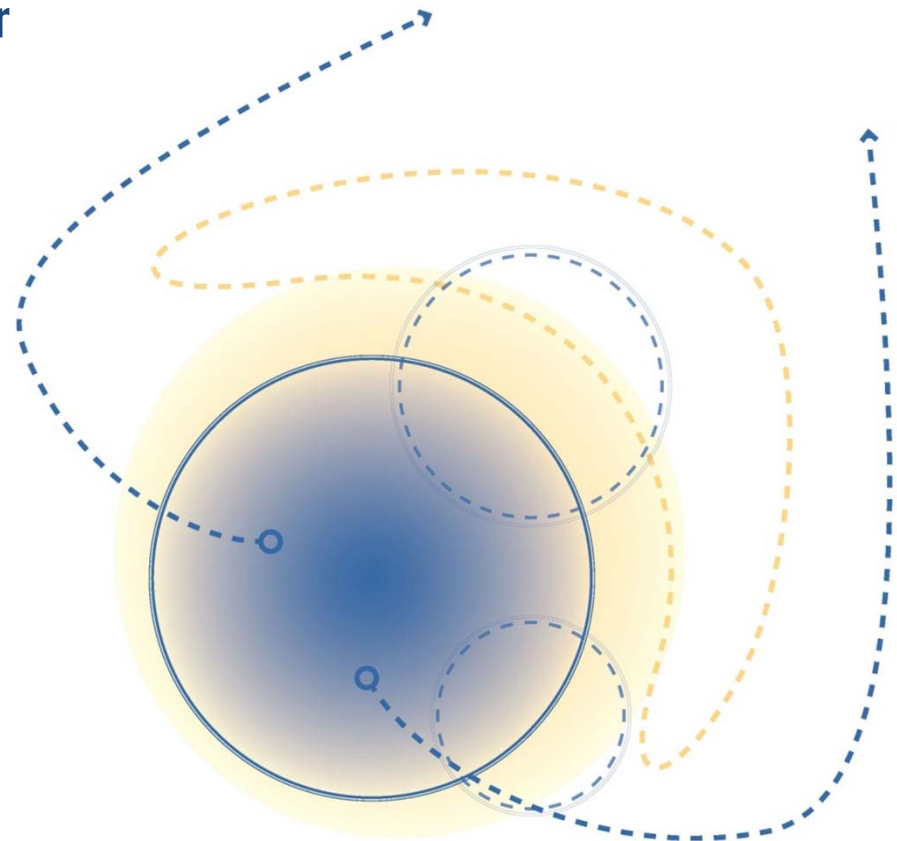
Key Characteristics: Create a Strong Core

- **Expand programs to strengthen current successful campus districts and interdisciplinary practices**
- **Infill buildings and additions discretely to “densify” campus core for collegiality, walkability and livability**
- **Preserve open space for inspiration, education and recreation**



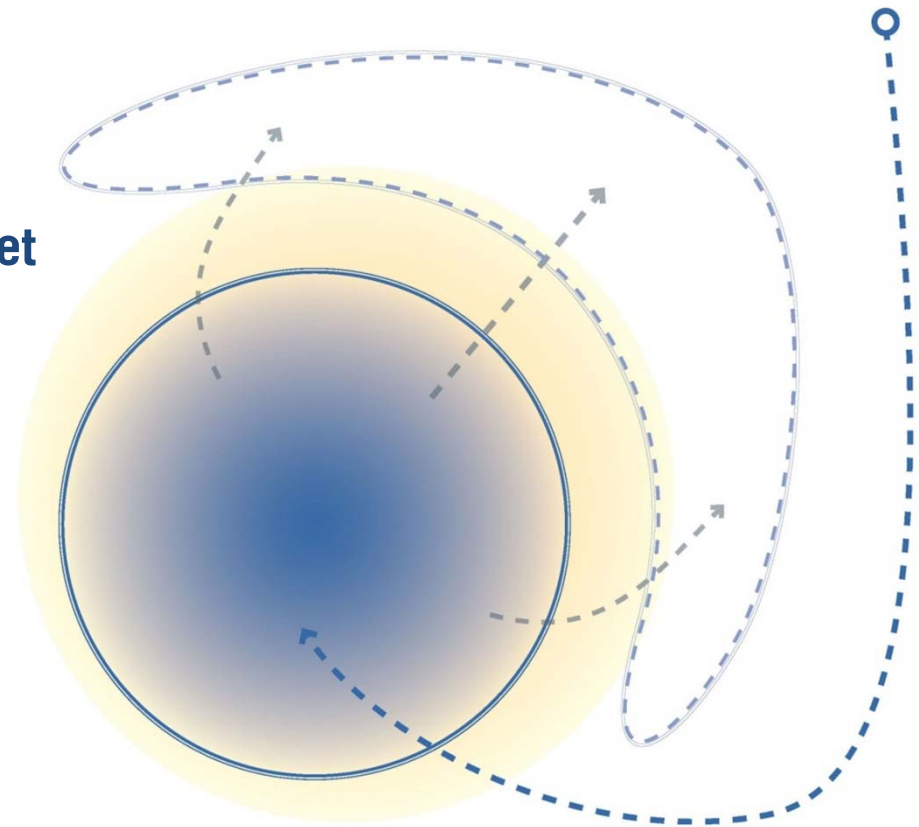
Key Characteristics: Reinforce Identity

- **Position Academic Health programs for high access and outreach**
- **Position Engineering, Math and Computing programs to successfully relocate to MMC over time**
- **Position Journalism, Hospitality, Education and Environmental Science programs to strengthen BBC identity**



Key Characteristics: Reinforce Partnerships

- **Focus externally funded growth at the campus perimeter**
- **Reserve MMC partnership sites to meet requirements for high access, high visibility, and flexible opportunities**
- **Reposition EC / partnership sites for highest and best use**
- **Landbank sites at BBC in light of limited access**



Overall 2020 New Space Needs

FIU NEEDS BEYOND CAPITAL PROJECTS

ACADEMIC:	951,600 SF
SUPPORT:	476,000 SF
RESEARCH:	246,900 SF
FACILITY SUPPORT:	116,900 SF
RECREATION:	90,900 SF
CLINIC:	35,200 SF
TOTAL:	1,917,500 SF

HOUSING: 1,002,950 SF /3086 BEDS (includes replacement)

RECREATION FIELDS/ COURTS:

NIRSA STANDARDS:

SOCCER/ FOOTBALL FIELDS

5 This assumes continued use of Mourning High

SOFTBALL FIELDS

4 This assumes fields at Tamiami Park are still used

TENNIS COURTS

3

VOLLEYBALL COURTS

3

COUNTY STANDARDS:

13.75 ACRES TOTAL REQUIRED

Additional 2035 Space Needs

FIU NEEDS BEYOND 2020

ACADEMIC:	511,000SF
SUPPORT:	324,400 SF
RESEARCH:	173,000 SF
FACILITY SUPPORT:	28,500 SF
RECREATION:	44,300 SF
STUDENT CLINIC:	15,450 SF
TOTAL:	1,096,650 SF
HOUSING:	1,509,000 SF (4043 BEDS)

RECREATION FIELDS/ COURTS:

NIRSA STANDARDS:

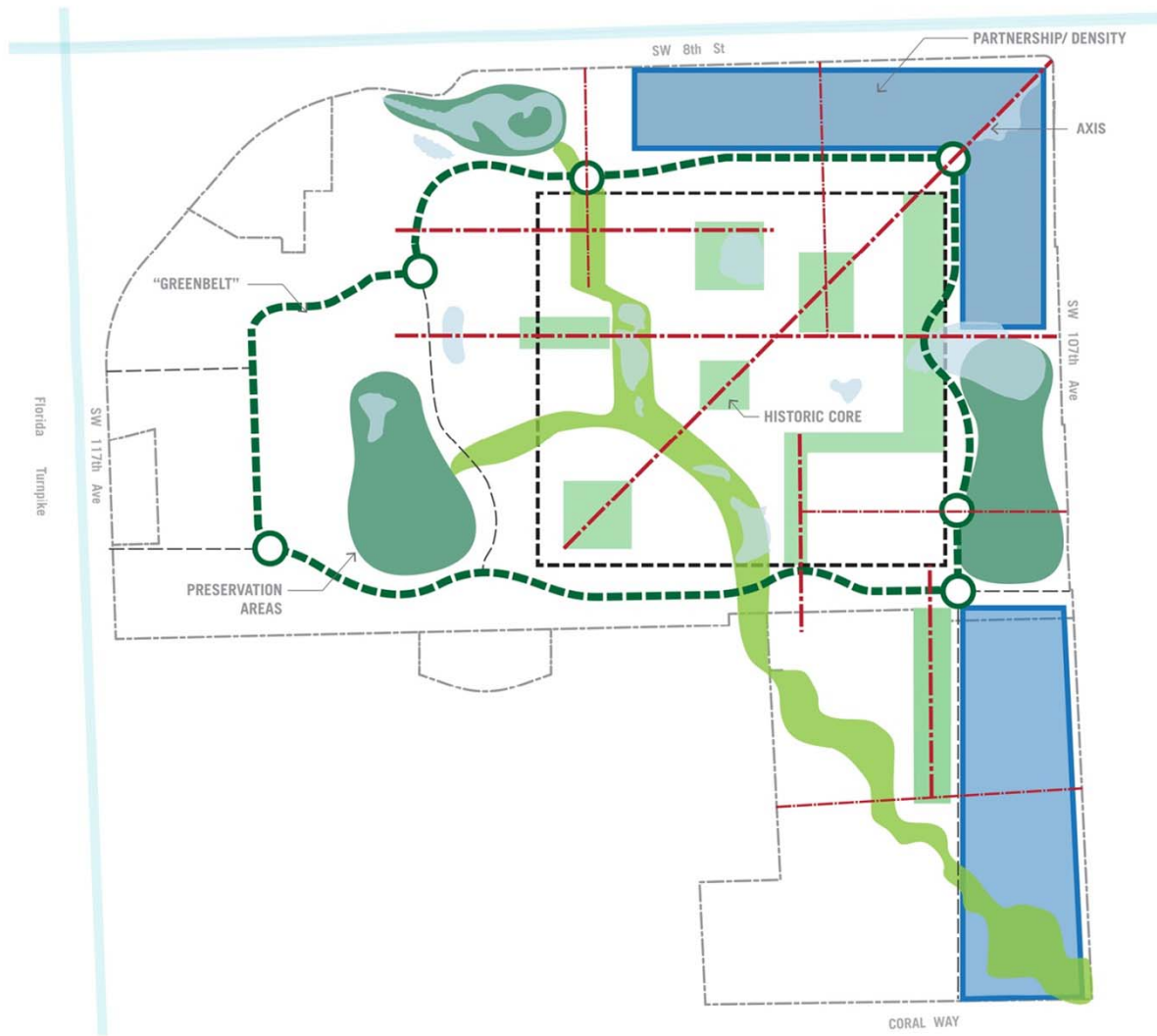
SOCCER/ FOOTBALL FIELDS	3 This assumes continued use of Mourning High
SOFTBALL FIELDS	2 This assumes fields at Tamiami Park are still used
TENNIS COURTS	6
VOLLEYBALL COURTS	2
BASKETBALL COURTS	2

COUNTY STANDARDS:

20.62 ACRES TOTAL REQUIRED

MMC PLAN REVIEW

Modesto Maidique Campus Development Framework



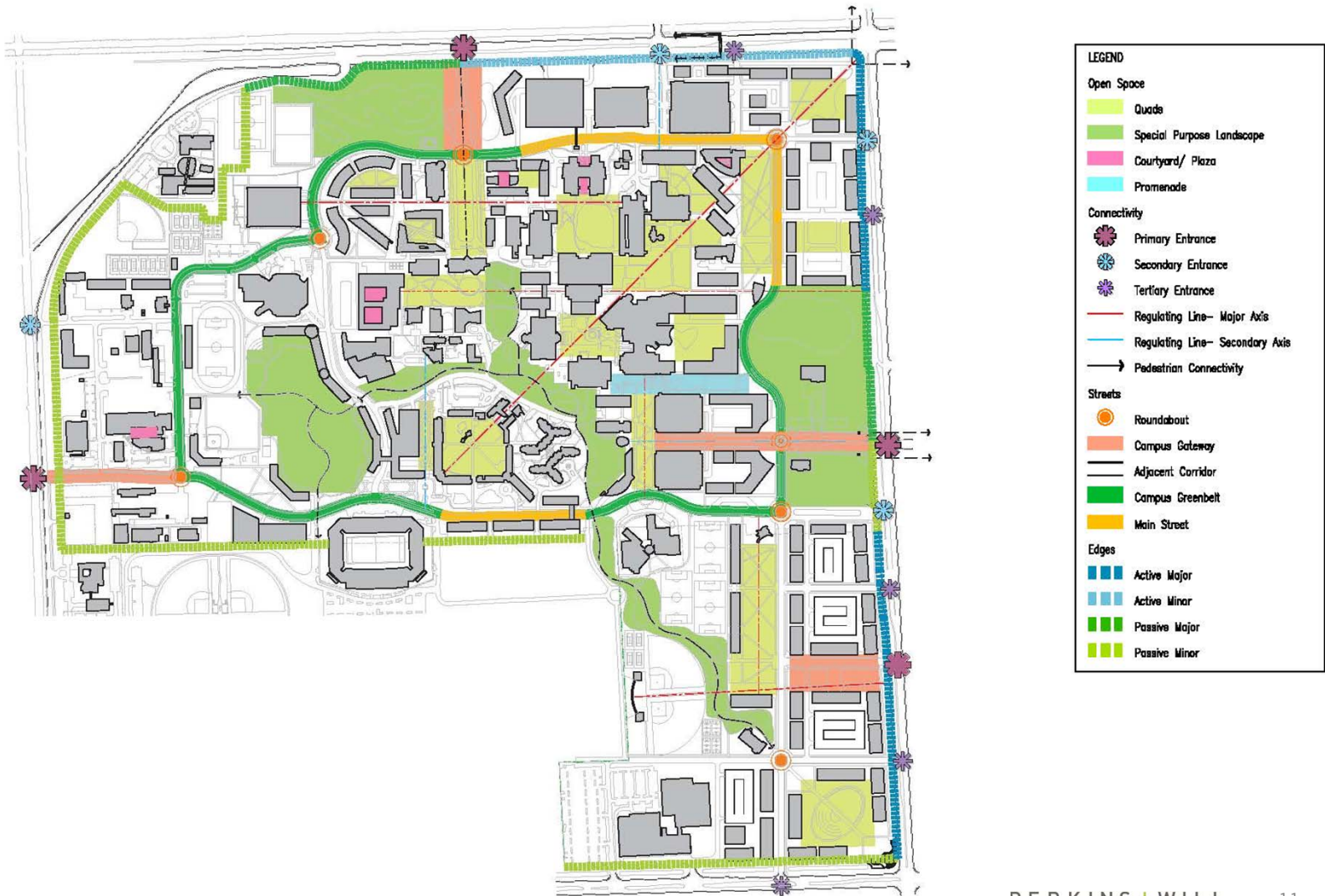
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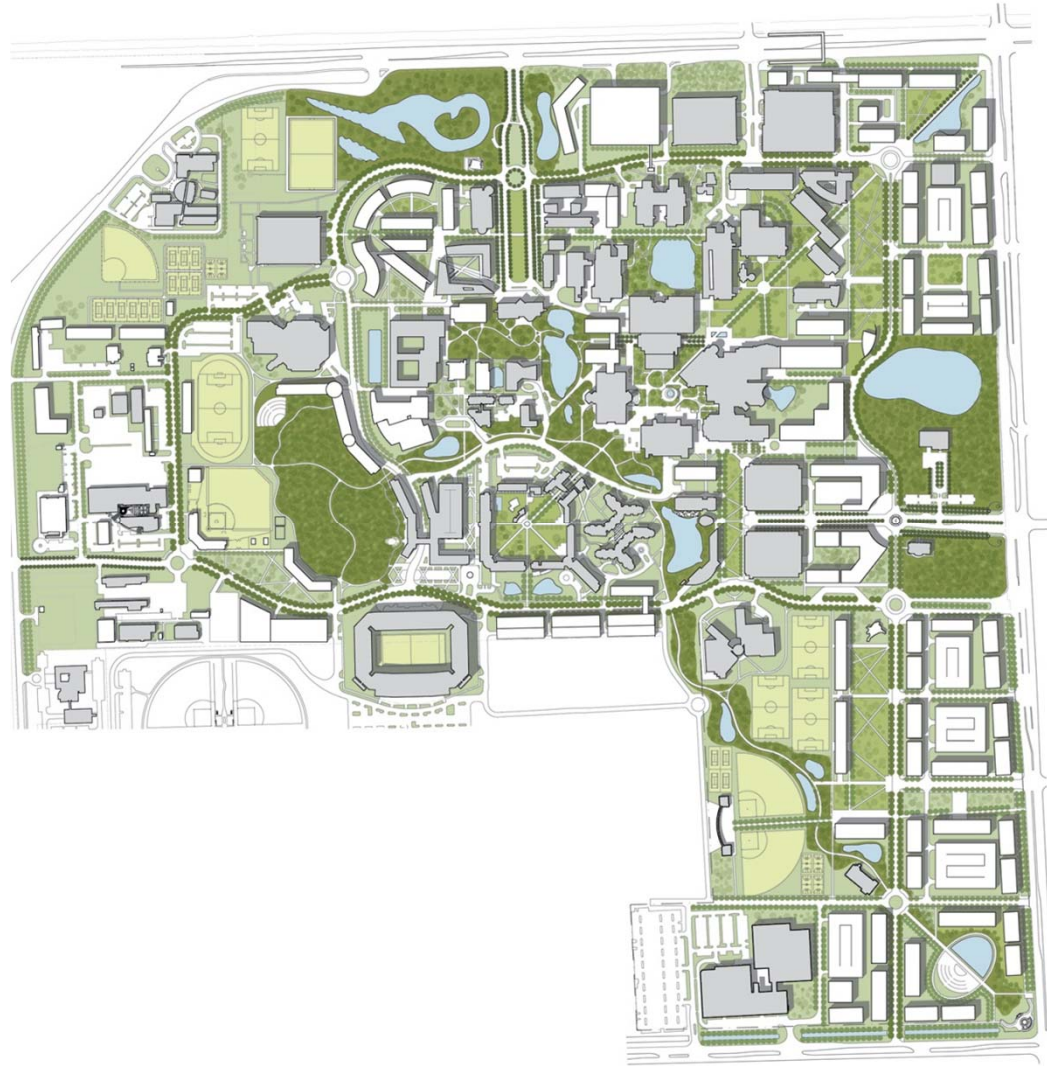
Modesto Maidique Campus

Urban Design Framework - Vision



Modesto Maidique Campus

Vision Plan



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MMC – 2035 Facility Use

LEGEND

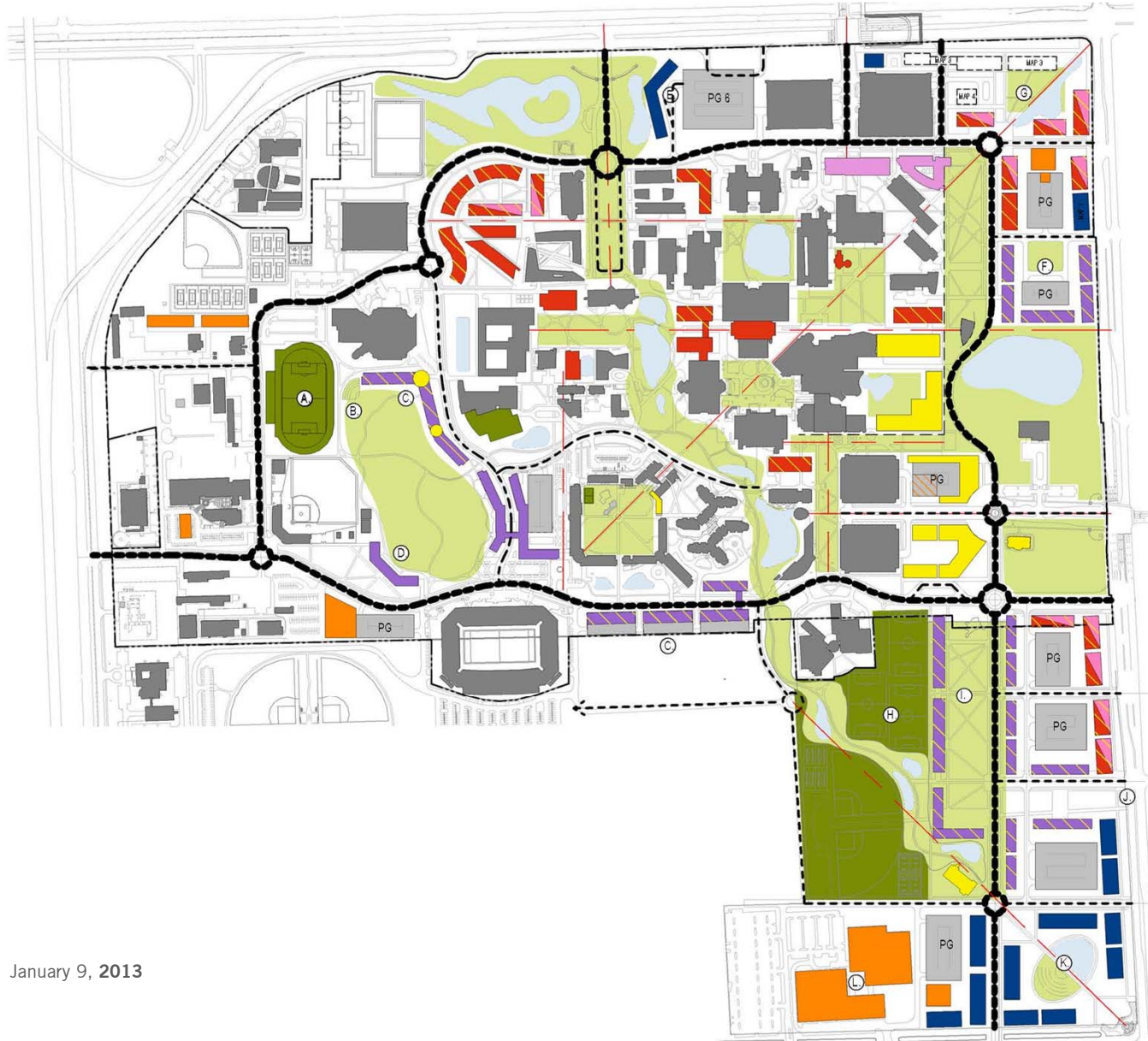
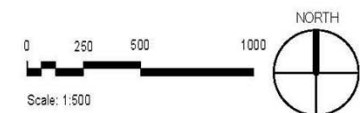
- ACADEMIC
- RESEARCH
- SUPPORT
- 1ST FLOOR SUPPORT
- HOUSING
- PARTNERSHIP
- SPORTS / RECREATION
- FACILITY SUPPORT
- OPEN SPACE
- NEPP PARKING
- VISION PLAN BUILDING
- ROAD REALIGNMENT
- CAMPUS AXES

KEY:

- A. EXPANDED TRACK AND FIELD
- B. AMPHITHEATER
- C. EXPANDED UNIVERSITY HOUSING
- D. GREEK HOUSING
- E. HOTEL
- F. GRADUATE HOUSING
- G. ACADEMIC/RESEARCH AREA
- H. EXPANDED RECREATION FIELDS
- I. EXPANDED UNIVERSITY HOUSING
- J. MIXED USE DISTRICT
- K. AMPHITHEATER
- L. FACILITY SUPPORT AREA

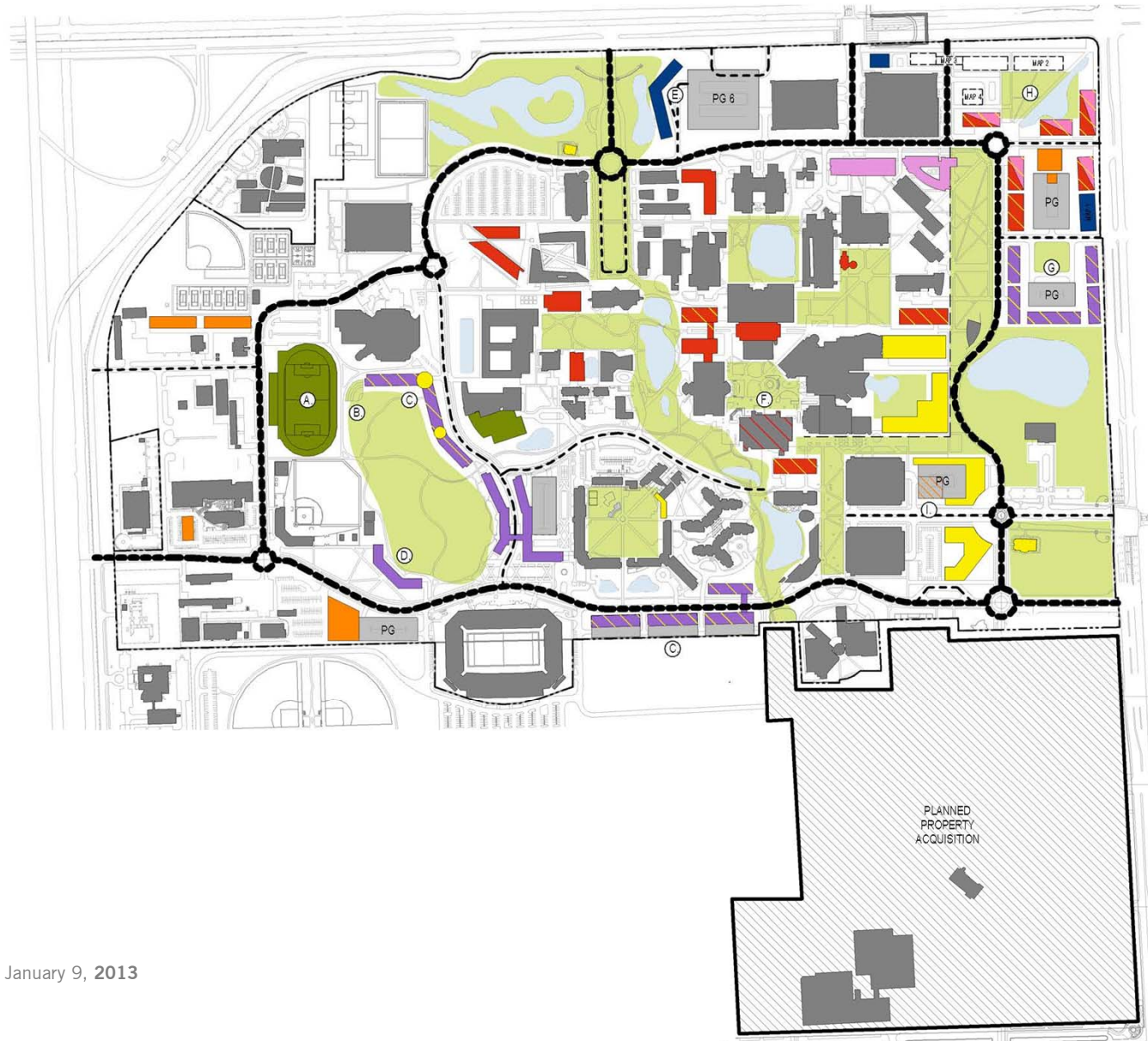
MODESTO MAIDIQUE CAMPUS

2035 PROPOSED PLAN



Modesto Maidique Campus

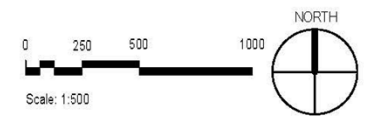
Facility Use



- LEGEND**
- ACADEMIC
 - RESEARCH
 - SUPPORT
 - 1ST FLOOR SUPPORT
 - HOUSING
 - PARTNERSHIP
 - SPORTS/RECREATION
 - FACILITY SUPPORT
 - OPEN SPACE
 - NEW PARKING
 - VISION PLAN BUILDING
 - ROAD REALIGNMENT
 - CAMPUS AXES

- KEY:**
- A. EXPANDED TRACK AND FIELD
 - B. AMPHITHEATER
 - C. EXPANDED UNIVERSITY HOUSING
 - D. GREEK HOUSING
 - E. HOTEL
 - F. REPURPOSING OF PRIMERA CASA
 - G. GRADUATE HOUSING
 - H. ACADEMIC/RESEARCH AREA
 - I. CENTRAL CHILLER PLANT

MODESTO MAIDIQUE CAMPUS
2020 PROPOSED PLAN



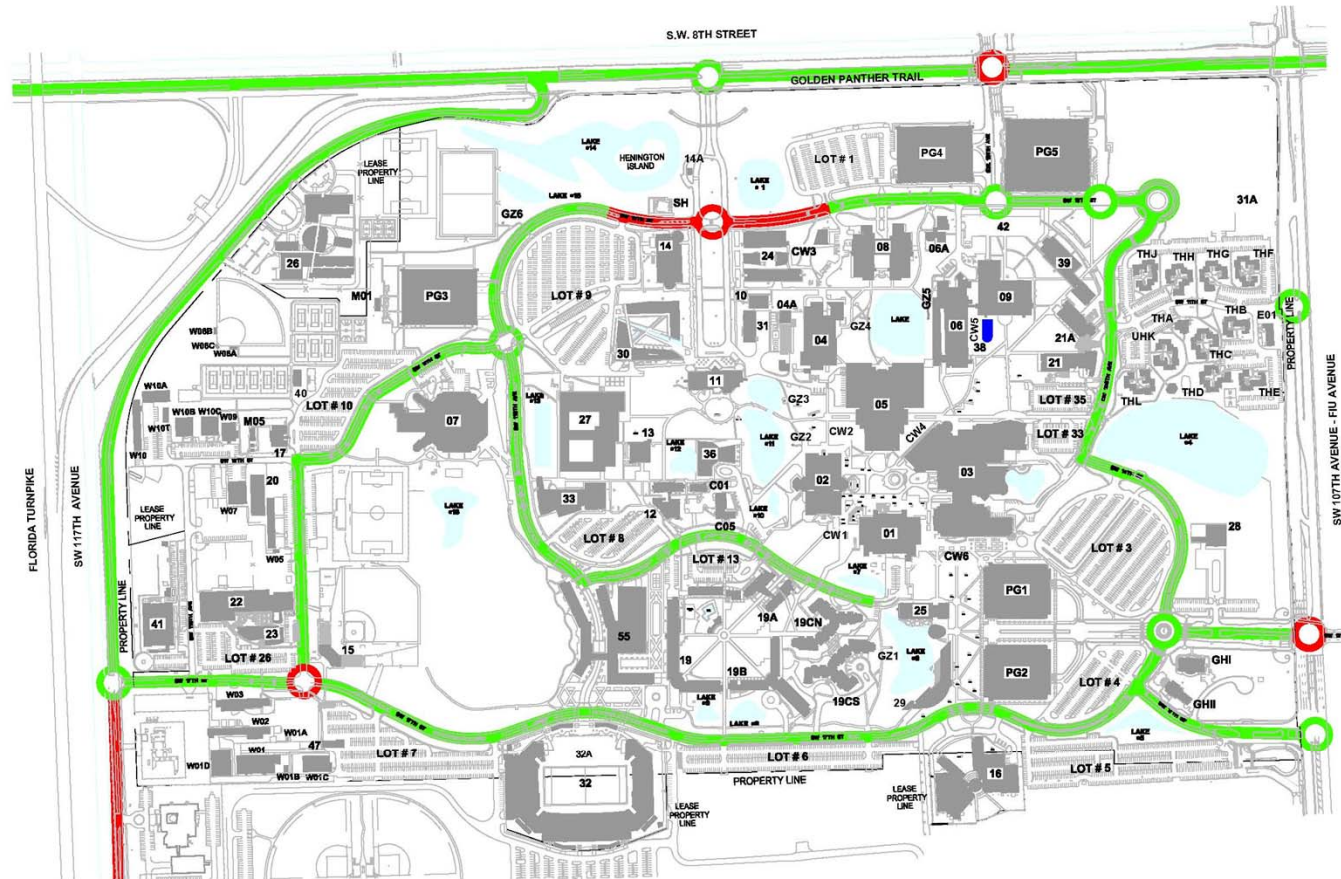
Transportation Concept Plan Issues/Discussions – MMC

On-Campus Roadway Issues (2020)

- **Level of Service (LOS) for internal roadway system decreases as additional volumes are generated**
- **Intersections and roadway segments are impacted**
- **Northern half of loop road reaches LOS of D or worse at all primary intersections and segments**
- **SW 113th Avenue begins to segregate student housing from campus core**
- **Southwest campus entry at SW 117th Avenue begins to reach LOS of D or worse**
- **Southwest campus loop road begins to reach LOS of D or worse as increased residential areas and parking is developed**

Transportation Concept Plan

2012 Existing Conditions



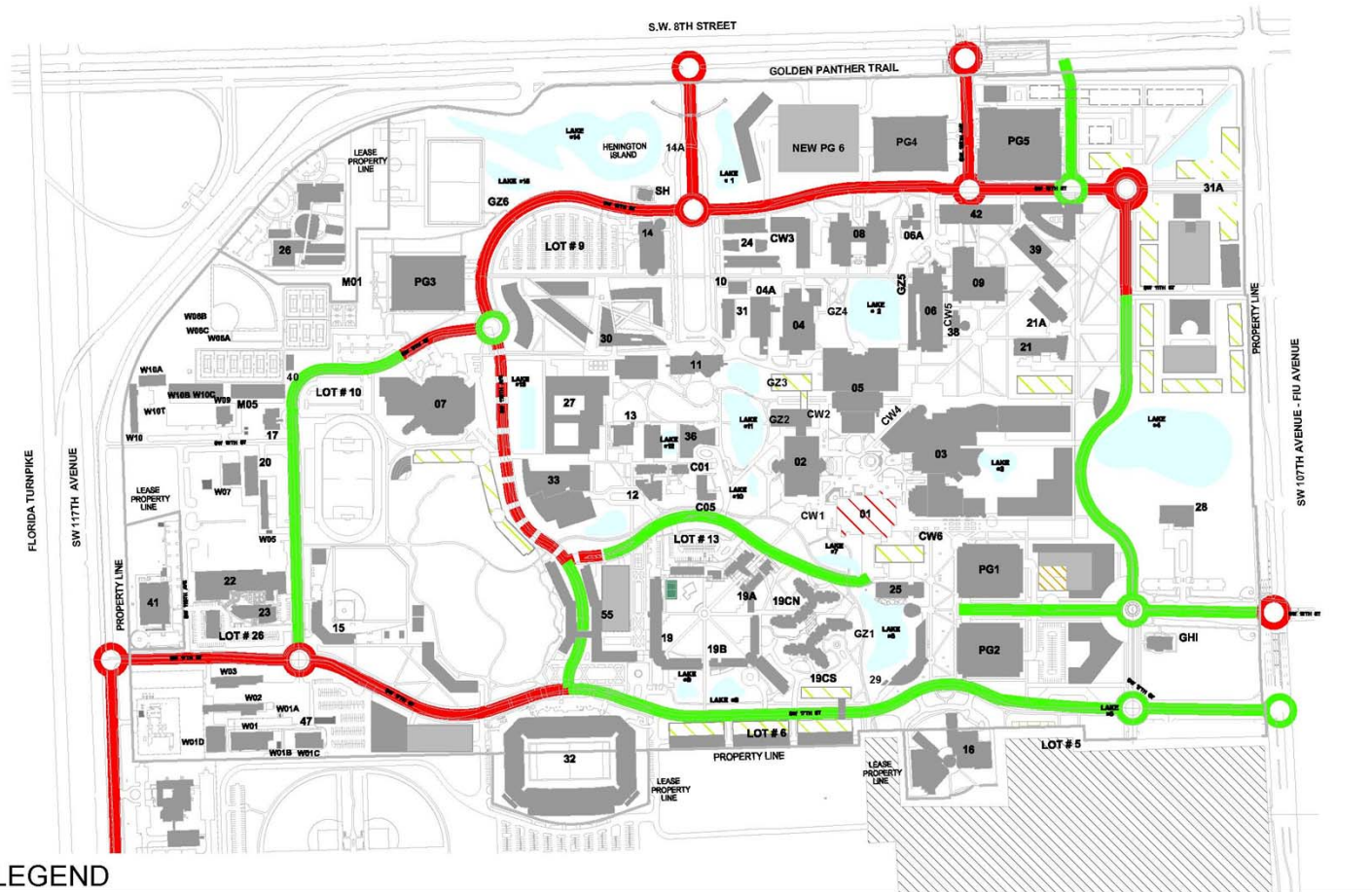
LEGEND

- Segment LOS "C" or Better
- Segment LOS "D, E, F"
- Intersection LOS "C" or Better
- Intersection LOS "D, E, F"

Transportation Concept Plan

2020 Traffic Capacity LOS w/o Improvements

MODESTO A. MAIDIQUE CAMPUS



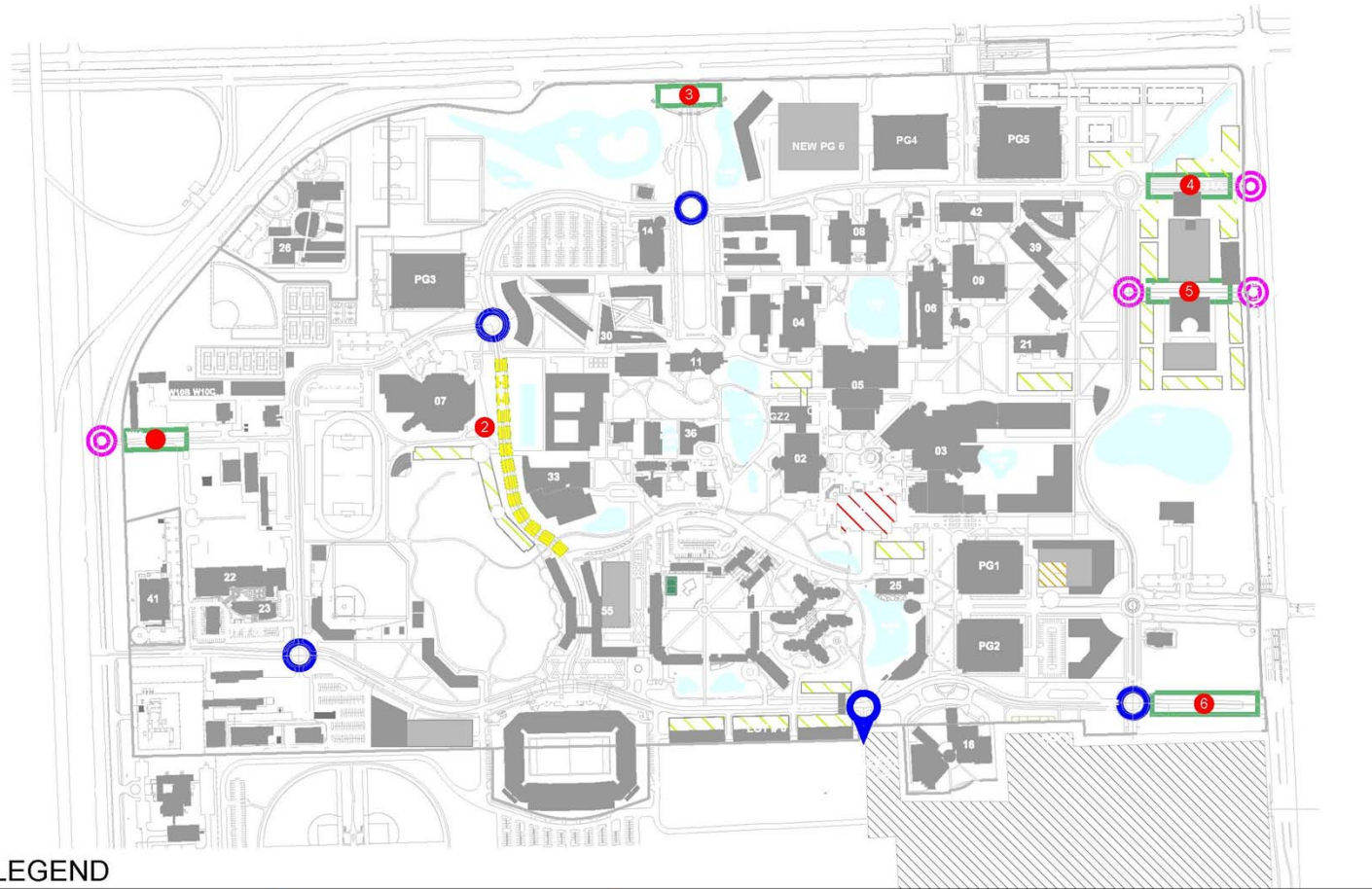
LEGEND

- Segment LOS "C" or Better
- Segment LOS "D, E, F"
- Intersection LOS "C" or Better
- Intersection LOS "D, E, F"

Transportation Concept Plan

2020 Traffic Capacity LOS Improvements

MODESTO A. MAIDIQUE CAMPUS



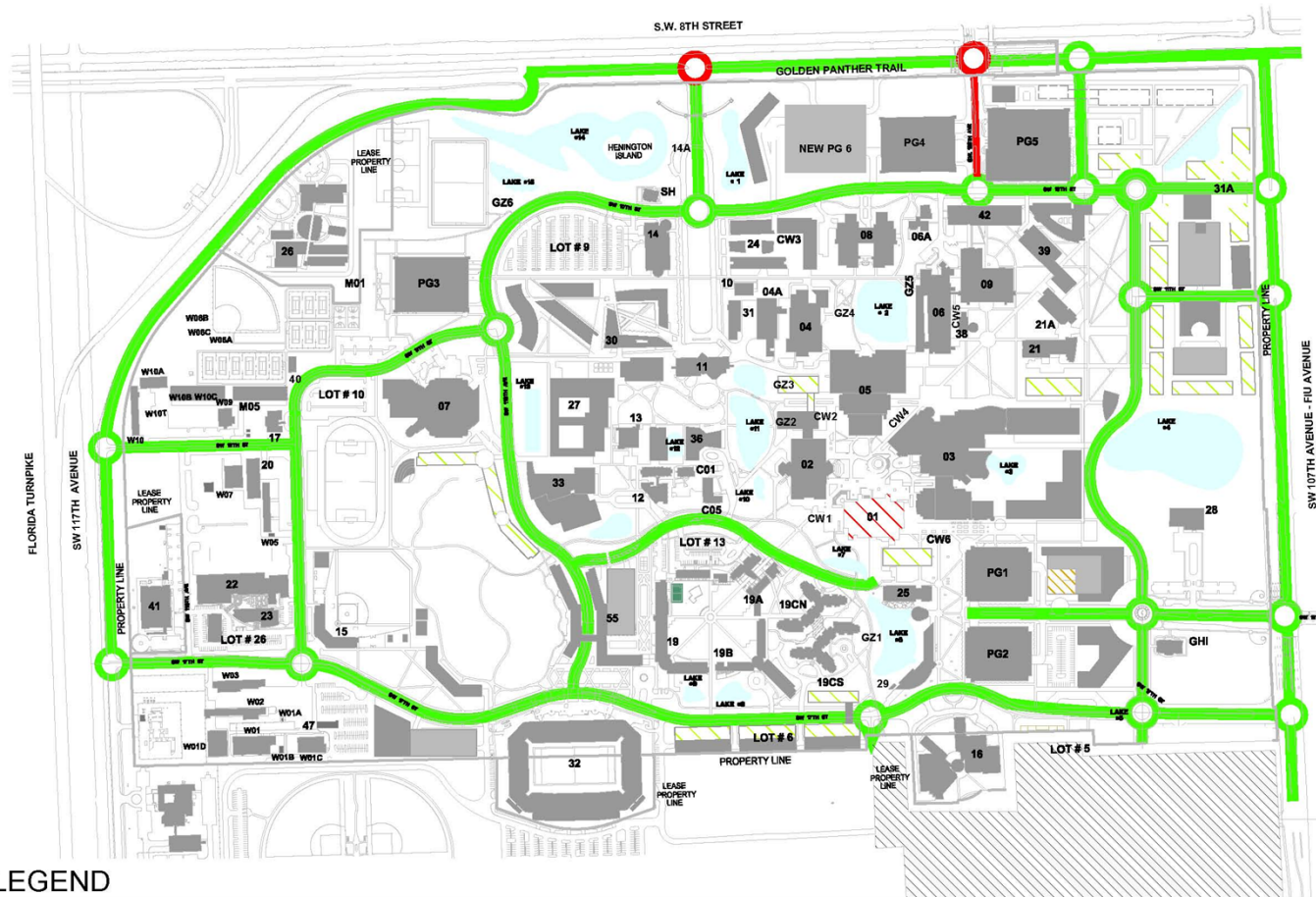
LEGEND

- | | | |
|---|---|--|
|  Limited Access |  1 Additional 117th Ave. Entry |  5 SW 12th/107th Entry |
|  Proposed Traffic Circle |  2 Limited Access to Campus Core |  6 Realigned SW 17th St Entry |
|  Proposed Intersection |  3 112th/8th Intersection/Signal Improvement | |
| |  4 SW 10th/107th Entry | |

Transportation Concept Plan

2020 Traffic Capacity LOS w/ Improvements

MODESTO A. MAIDIQUE CAMPUS



LEGEND

- Segment LOS "C" or Better
- Intersection LOS "D, E, F"

Transportation Concept Plan Issues/Discussions – MMC

On-Campus Roadway 2020 CMP Physical Improvements

- **Additional traffic circles (5) proposed**
 - Provide adequate space for circle and pedestrian areas
- **New entry at SW 117th Avenue and SW 11th Street**
 - Coordination with Miami-Dade
 - Provide ROW area for minimal 3 lane section from 117th Street to 115th street
- **Limited access for SW 113th Avenue between SW 11th Street and Parkview housing**
 - Establish hours of limited access to minimize pedestrian conflicts
 - Allowable 'limited access' vehicular uses
- **Intersection and signal improvements at SW 112th Avenue and SW 8th Street**
 - Impact upon existing entry monument/gateway/colonade
 - FDOT coordination/permitting

Transportation Concept Plan

Issues/Discussions – MMC

On-Campus Roadway 2020 CMP Physical Improvements (cont'd)

- **New SW 10th Street connection to SW 107th Avenue**
 - **FDOT coordination/permitting**
 - **Limited opening (right-in/right-out or right out only) due to distance from SW 8th Street**
 - **Provide ROW area for accel/decel transition lanes**
- **New SW 107th Avenue campus entry and connection to loop road at SW 12th Street**
 - **FDOT coordination/permitting**
 - **Full signalized opening – new signal and intersection design**
 - **Provide ROW area for accel/decel transition lanes**
- **Realignment of SW 17th Street entry at SW 107th Avenue**
 - **Provide adequate space for a minimal 4 lane divide roadway**
 - **Modification of off-campus parking**
 - **Modification of on-campus lake**

Transportation Concept Plan Issues/Discussions – MMC

Parking Issues (2020)

- Adequate parking capacity through 2020
- Existing/Proposed on-campus residence halls without dedicated parking
 - Panther, Everglades and Lakeview
 - Parkview future phases and Greek housing
 - Provide dedicated remote on-campus parking areas for these campus residents
- Potential transit parking demand at PG6
 - Allocation of transit/visitor parking in PG6
- Phasing of parking locations during the CMP implementation
 - Overflow parking areas on campus
 - Off-campus parking areas during construction
 - Build parking prior to addition of space
- Advance notification of parking availability
 - Signage or electronic/mobile notifications with real time updates
- Parking efficiency to allow CMP implementation
- Implement strategies to minimize parking demand/Single Occupancy Vehicle (SOV) trips

Transportation Concept Plan

Issues/Discussions – MMC

Transit Issues (2020)



- Increase ridership on public and FIU provided transit
- Uninterrupted transit service throughout CMP implementation
 - Public, inter-campus and intra-campus transit
 - Coordination with MDT
- On-campus resident transit service for remote parking
- MDT Express Bus hub at PG6
- Phasing of transit without inconveniences during CMP implementation
 - Routes
 - Stops
- Expand community shuttle system connections (Sweetwater/Doral)
- Provision of bicycle and pedestrian facilities at transit stops/hubs
 - Bike storage
 - Shower/changing facilities
 - Bike share program

Transportation Concept Plan

2020 Residential Parking and New Transit Routes



LEGEND

-  Campus Residences Without Dedicated Parking
-  Potential Reserved Residential Parking

Transportation Concept Plan

2020 Residential Parking and New Transit Routes



LEGEND

-  Campus Residences Without Dedicated Parking
-  Potential Residential Parking
-  Housing Parking Transit Stop
-  Inter-campus Transit Stop
-  Transit Routes

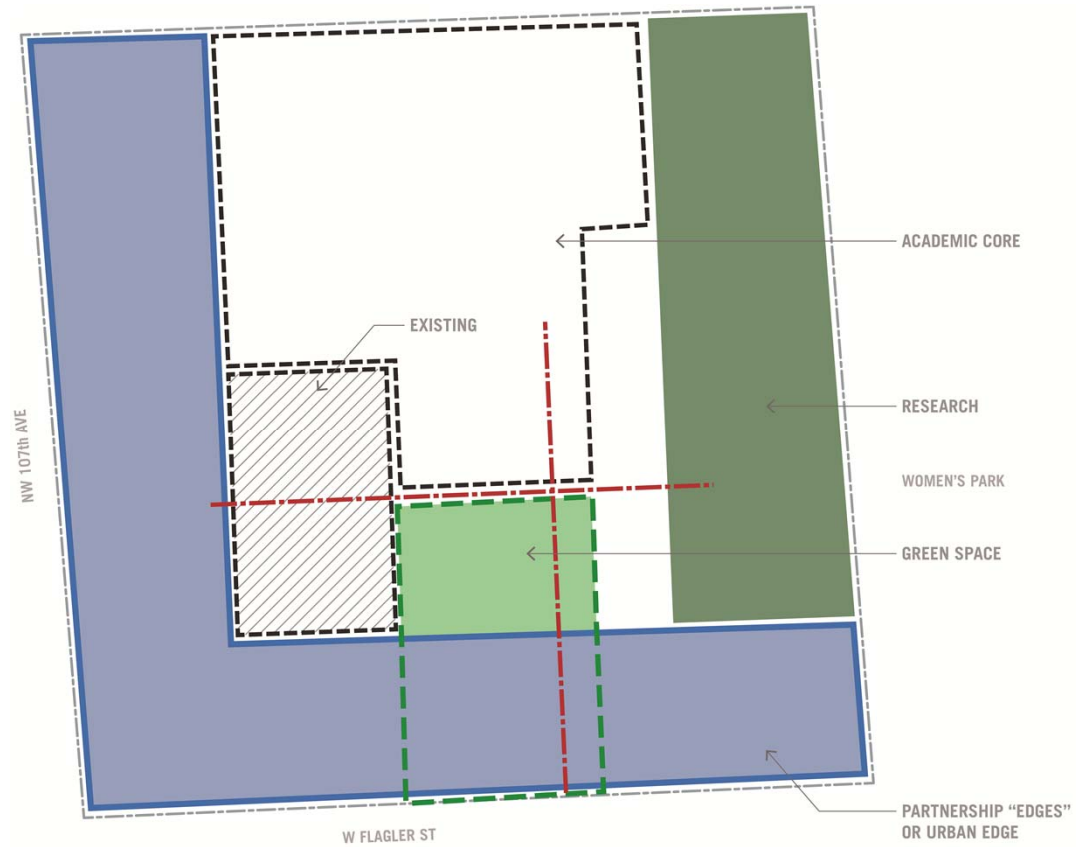
Transportation Concept Plan Issues/Discussions – MMC

Bike and Pedestrian Issues (2020)

- **Improve pedestrian routes/safety from garages/parking to Campus core.**
 - **Pedestrian bridge at PG6/PG4**
 - **Pedestrian zone on loop road at PG6**
 - **Pedestrian signals and controls**
- **Reduce non-service vehicular access to campus core**
 - **Keep parking facilities outside of campus loop road**
 - **Creation of limited access roads for service and transit use only**
- **Reduce service vehicle and pedestrian conflicts**
 - **Implement and enforce the cart policy**
 - **Develop collective service area access ways within the campus core**
- **Improve Bicycle facilities on campus and encourage off campus improvements**
 - **Designate and sign bike lane on loop road**
 - **Permanent home for FIU bike shop near a transit hub or campus bike access**
 - **Participate in reviews/public workshops for off-campus bike facilities**

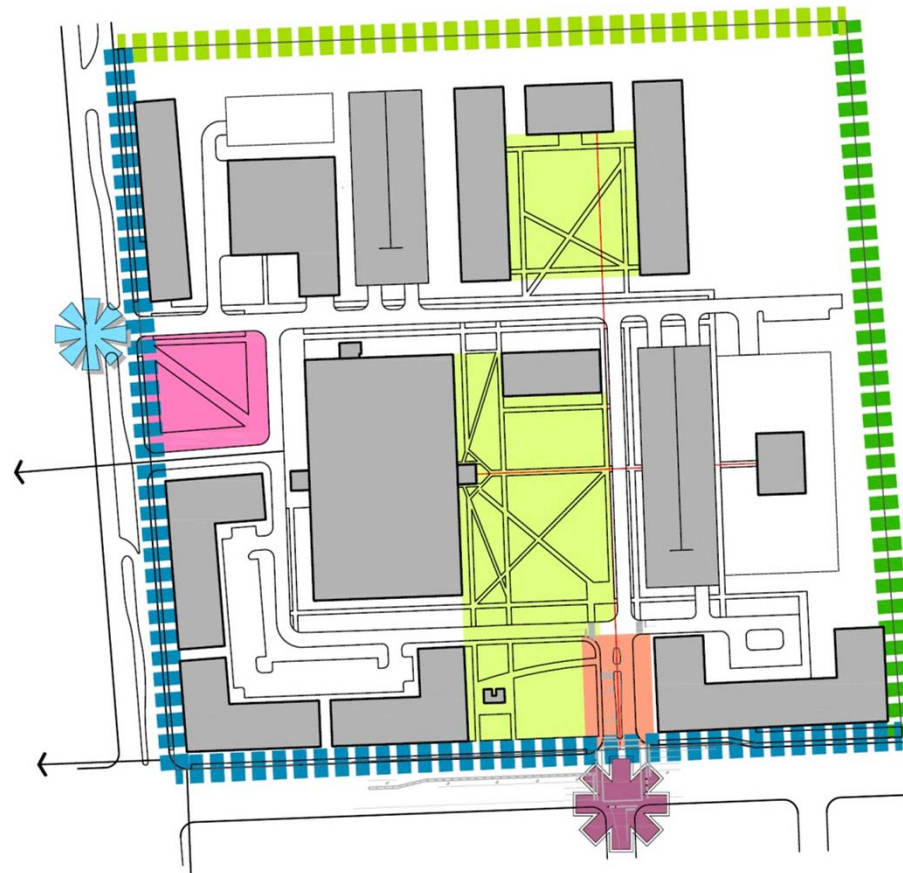
EC PLAN REVIEW

Engineering Center Development Framework



Engineering Center

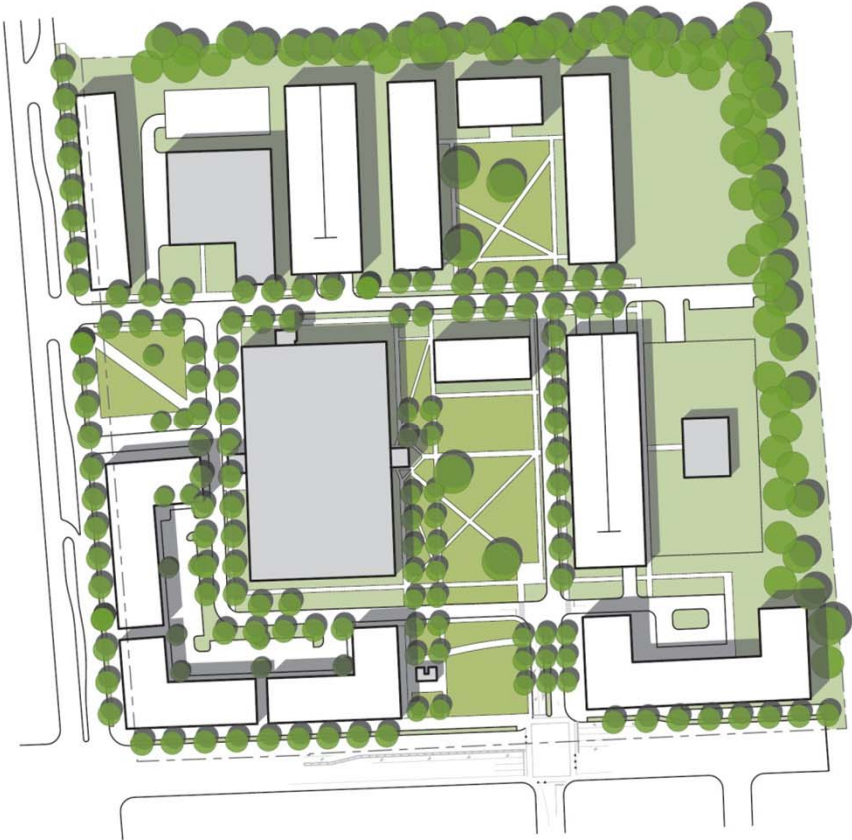
Urban Design Framework - Vision



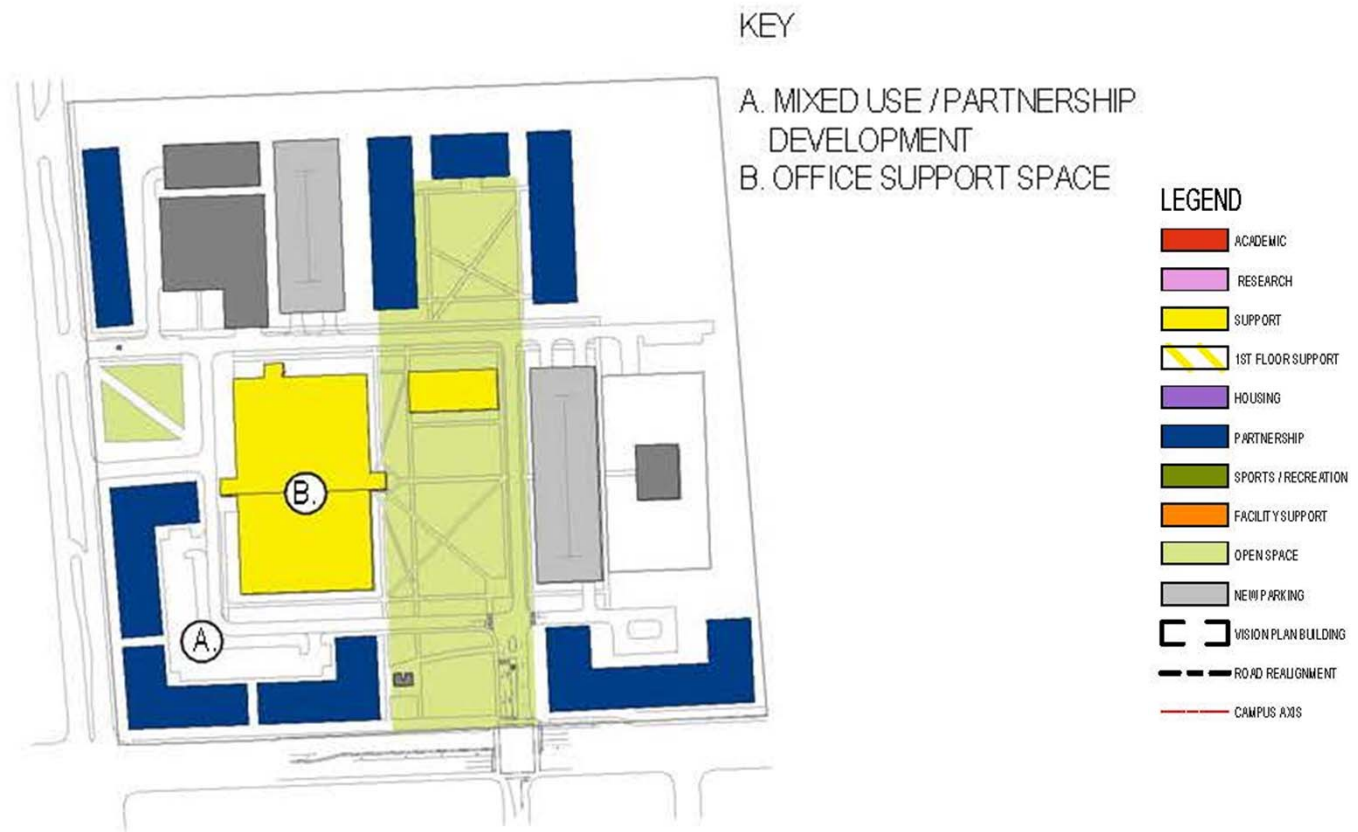
LEGEND	
Open Space	
	Quads
	Special Purpose Landscape
	Courtyard/ Plaza
	Promenade
Connectivity	
	Primary Entrance
	Secondary Entrance
	Tertiary Entrance
	Regulating Line- Major Axis
	Regulating Line- Secondary Axis
	Pedestrian Connectivity
Streets	
	Roundabout
	Campus Gateway
	Adjacent Corridor
	Campus Greenbelt
	Main Street
Edges	
	Active Major
	Active Minor
	Passive Major
	Passive Minor

Engineering Center

Vision Plan

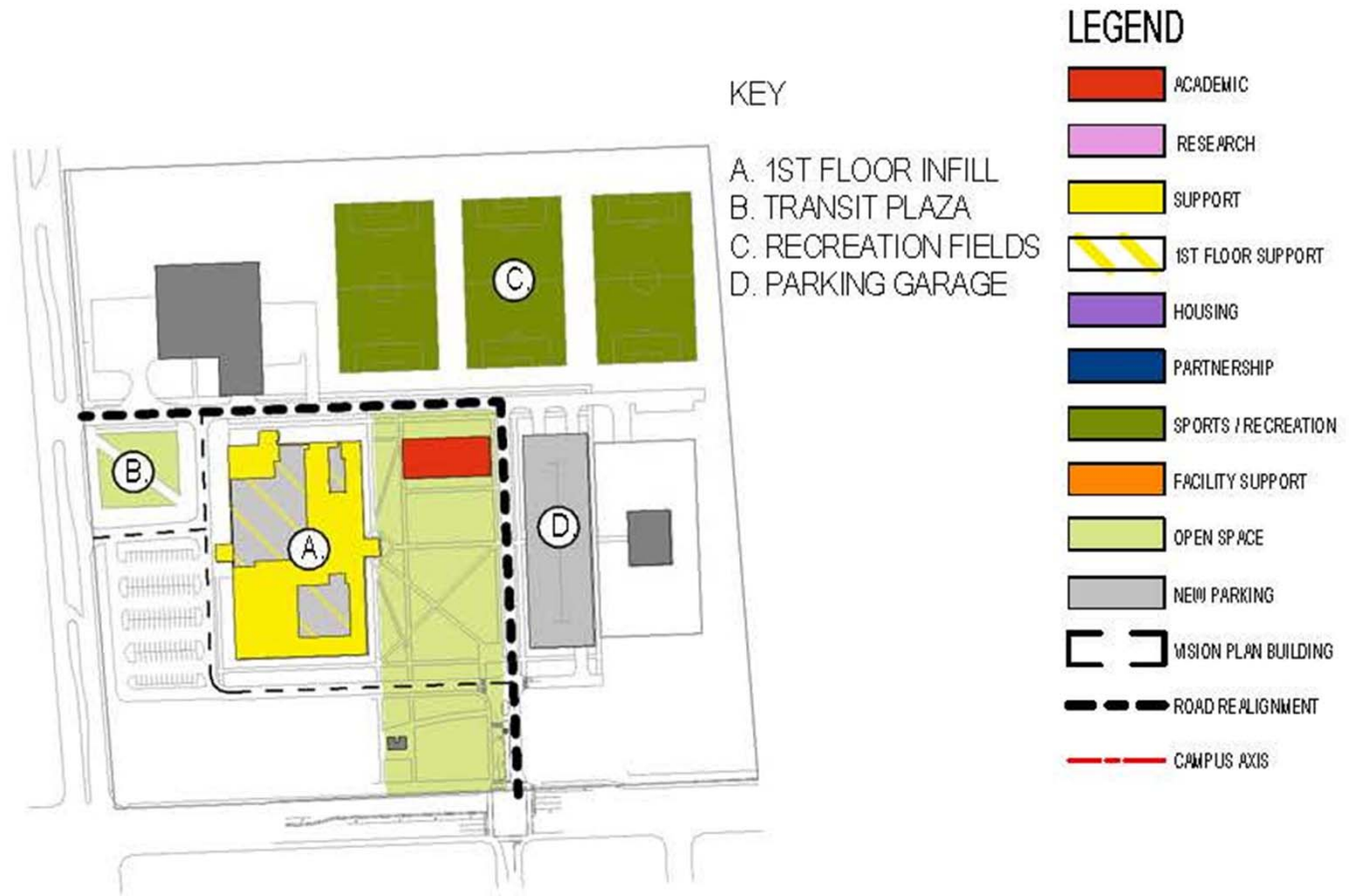


EC – 2035 Facility Use



Engineering Center

Facility Use



Transportation Concept Plan

Issues/Discussions – EC

Parking Issues (2020)

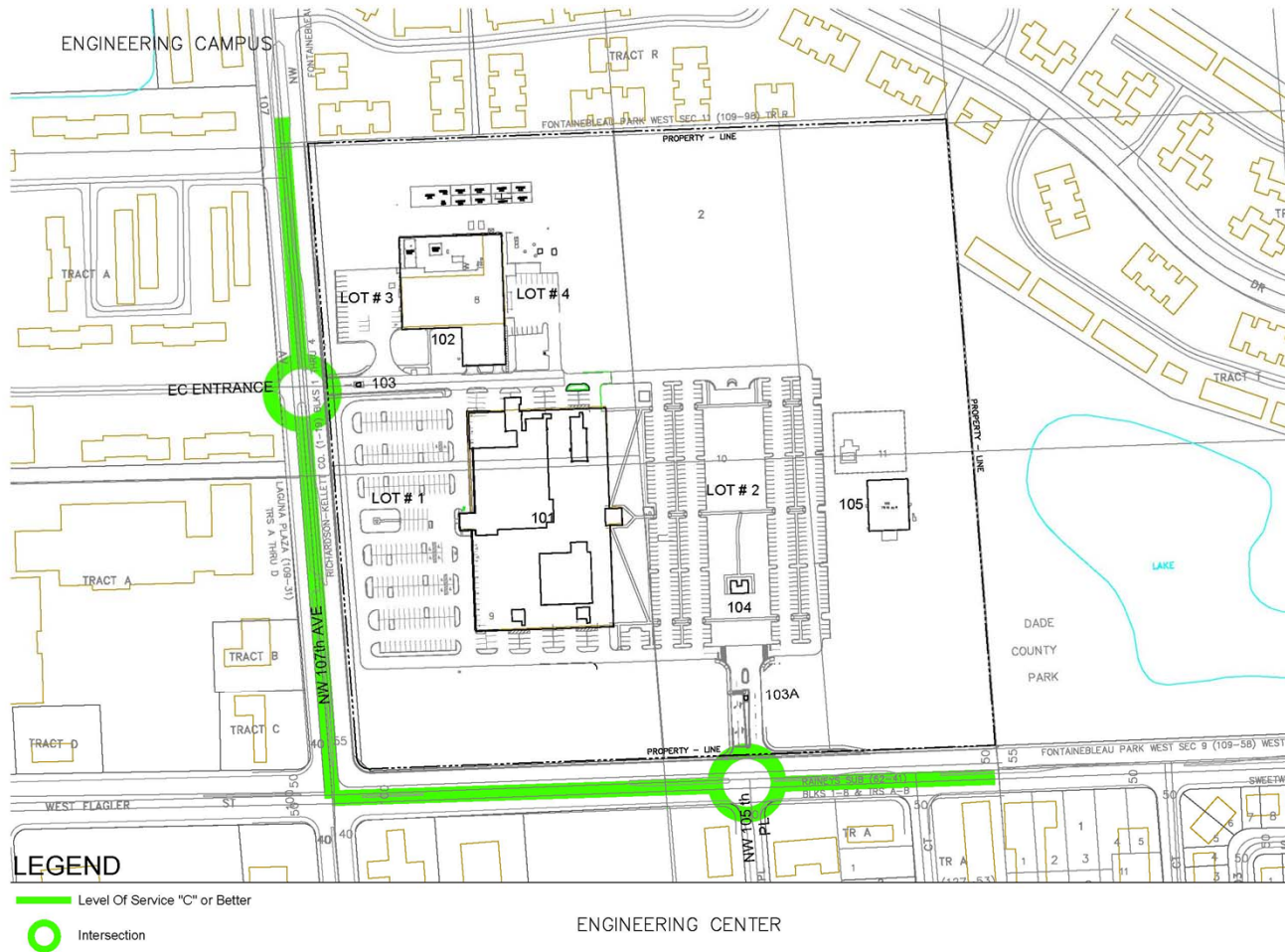
- Adequate parking capacity through 2020
- New parking garage proposed
 - Provide temporary parking facilities during displacement by garage construction
- Dedicated parking necessary for recreation facility users

Transit

- Encourage increased ridership on public and FIU provided transit
- Creation of transit stop/hub for FIU and public transit along SW 107th Avenue
 - Internal roadways must facilitate transit turning movements
- Potential stop for Express Bus
- Expand community shuttle system connections (Sweetwater/Doral)

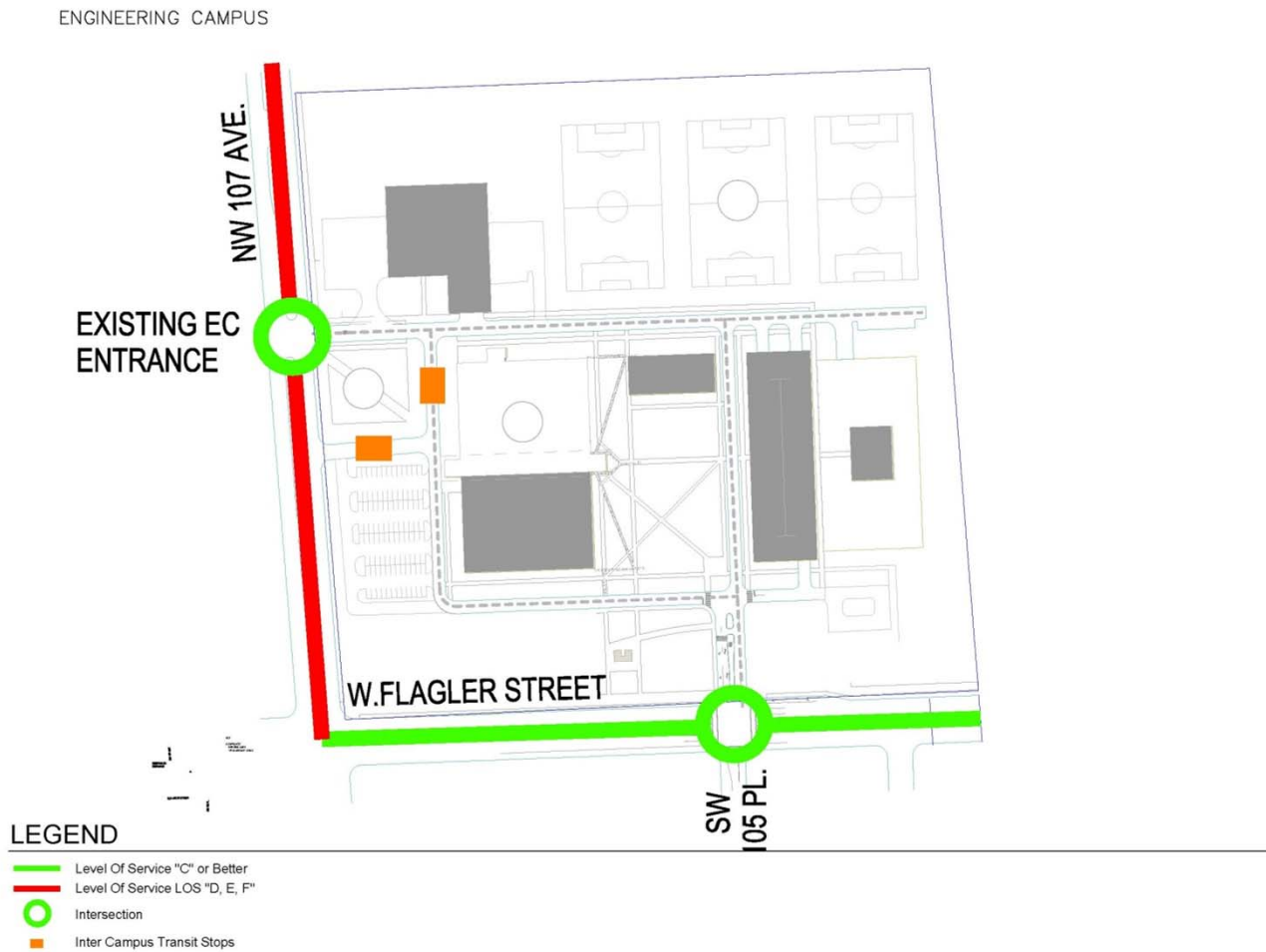
Transportation Concept Plan

2012 Existing Conditions



Transportation Concept Plan

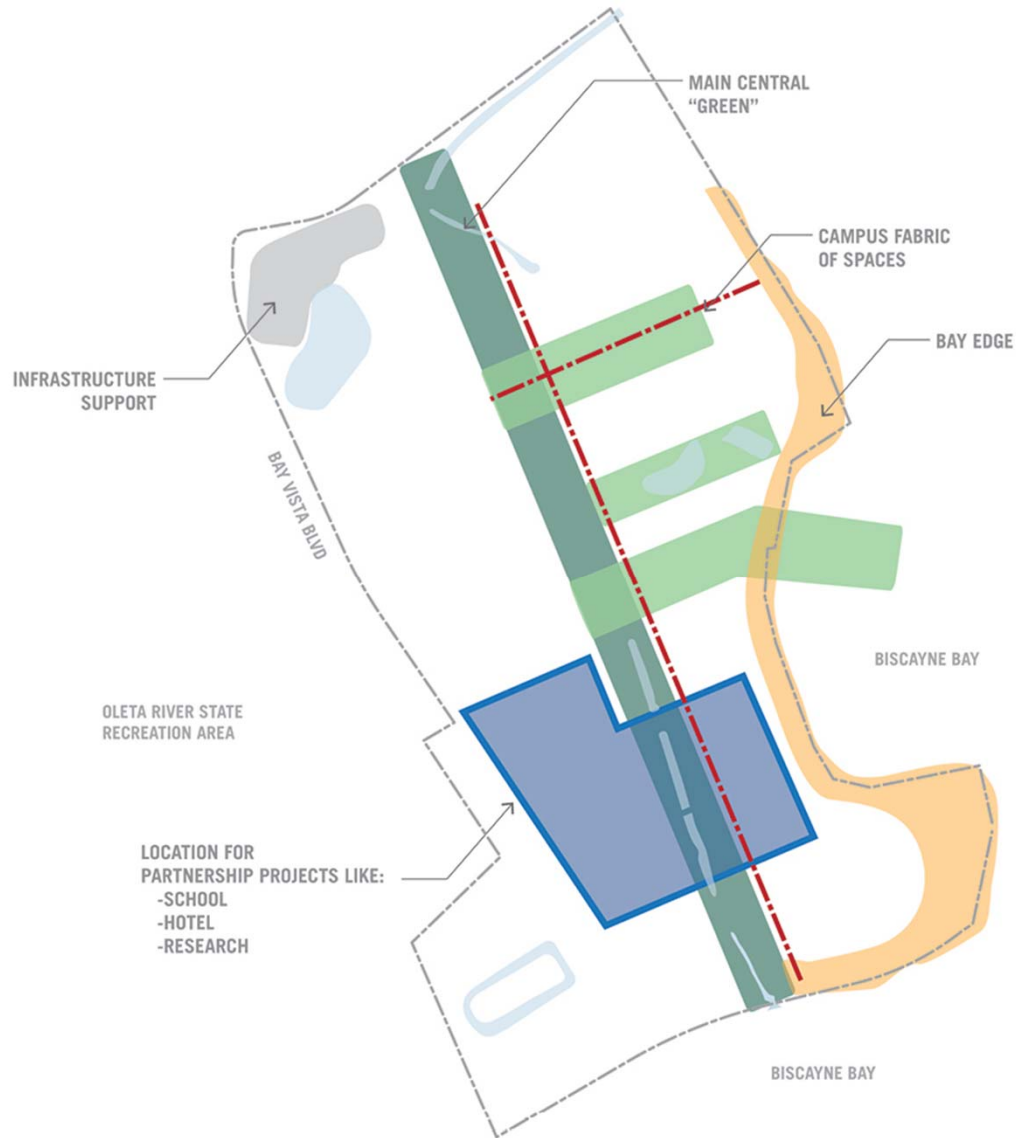
2020 Traffic Capacity LOS w/ improvements



BBC PLAN REVIEW

Biscayne Bay Campus

Development Framework



Biscayne Bay Campus

Urban Design Framework - Vision



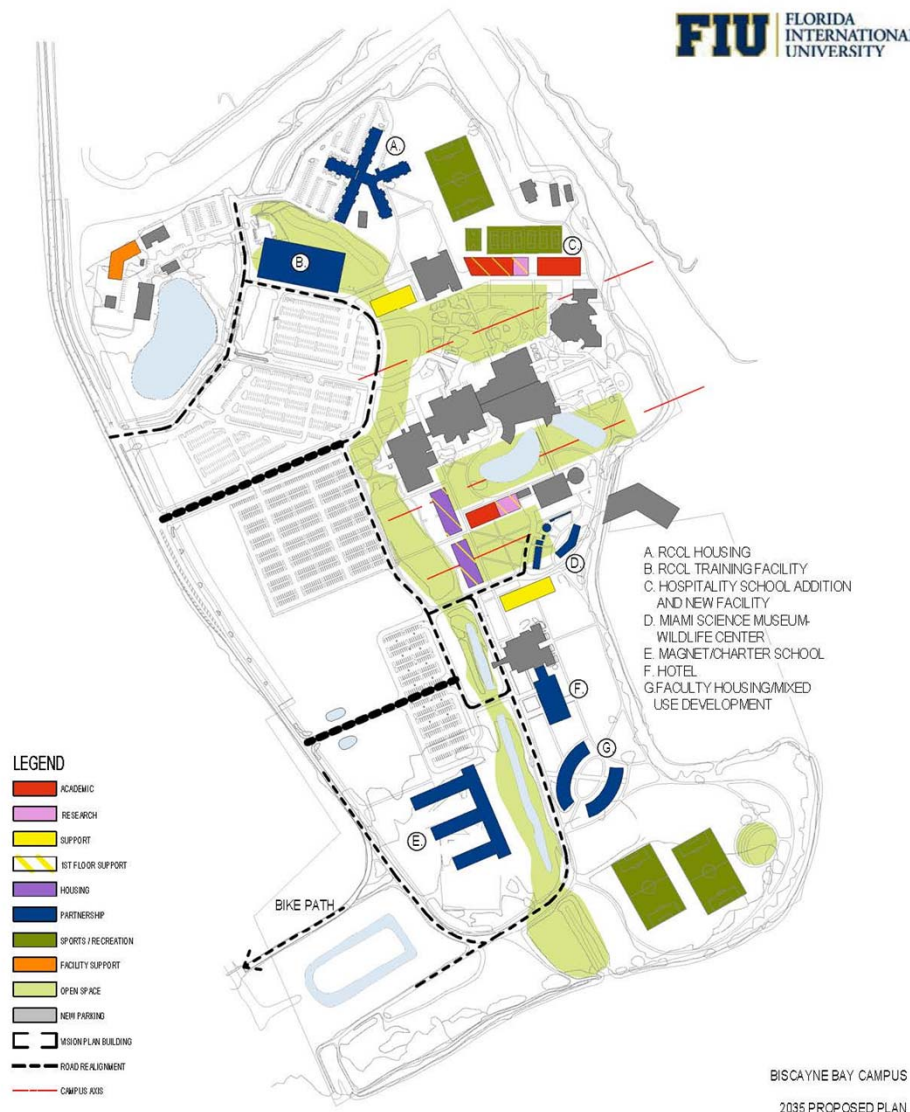
LEGEND	
Open Space	
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	Active Major
	Active Minor
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	Passive Minor

Biscayne Bay Campus

Vision Plan



BBC – 2035 Facility Use

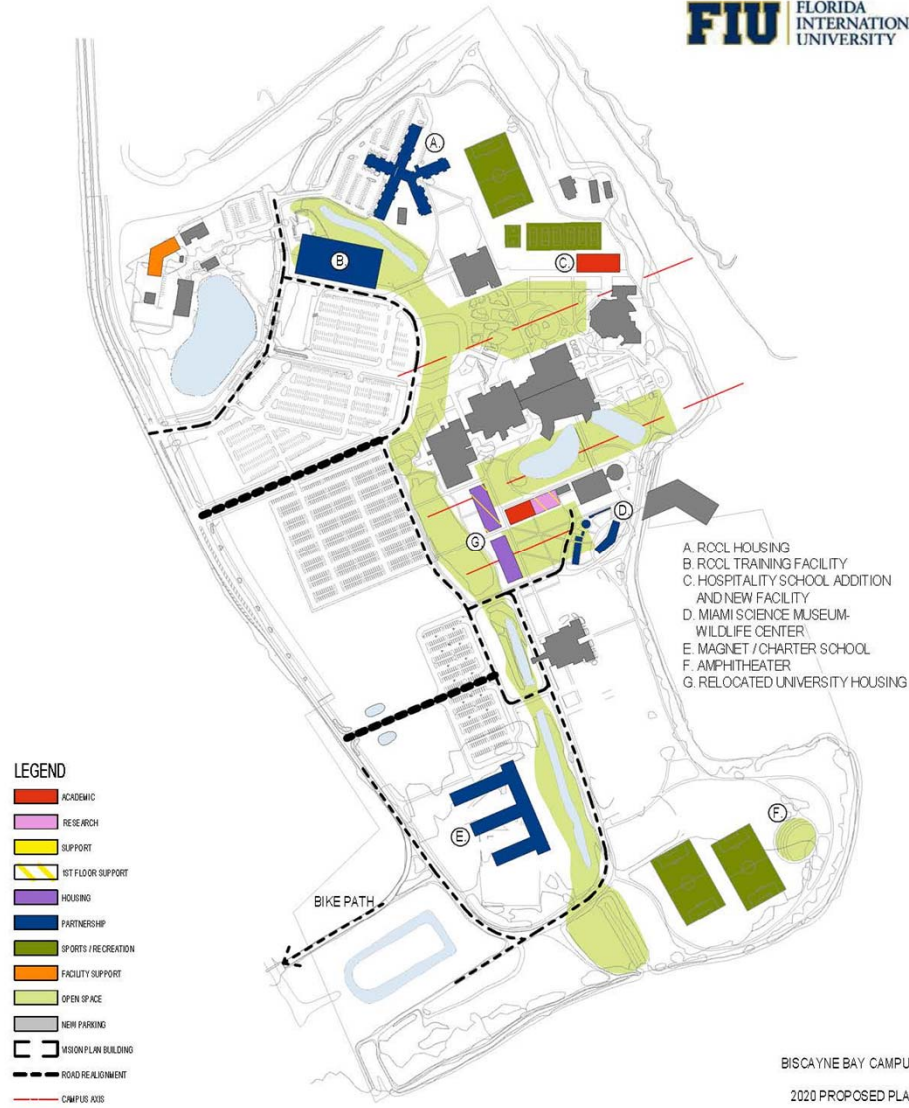


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Biscayne Bay Campus

Facility Use



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Transportation Concept Plan

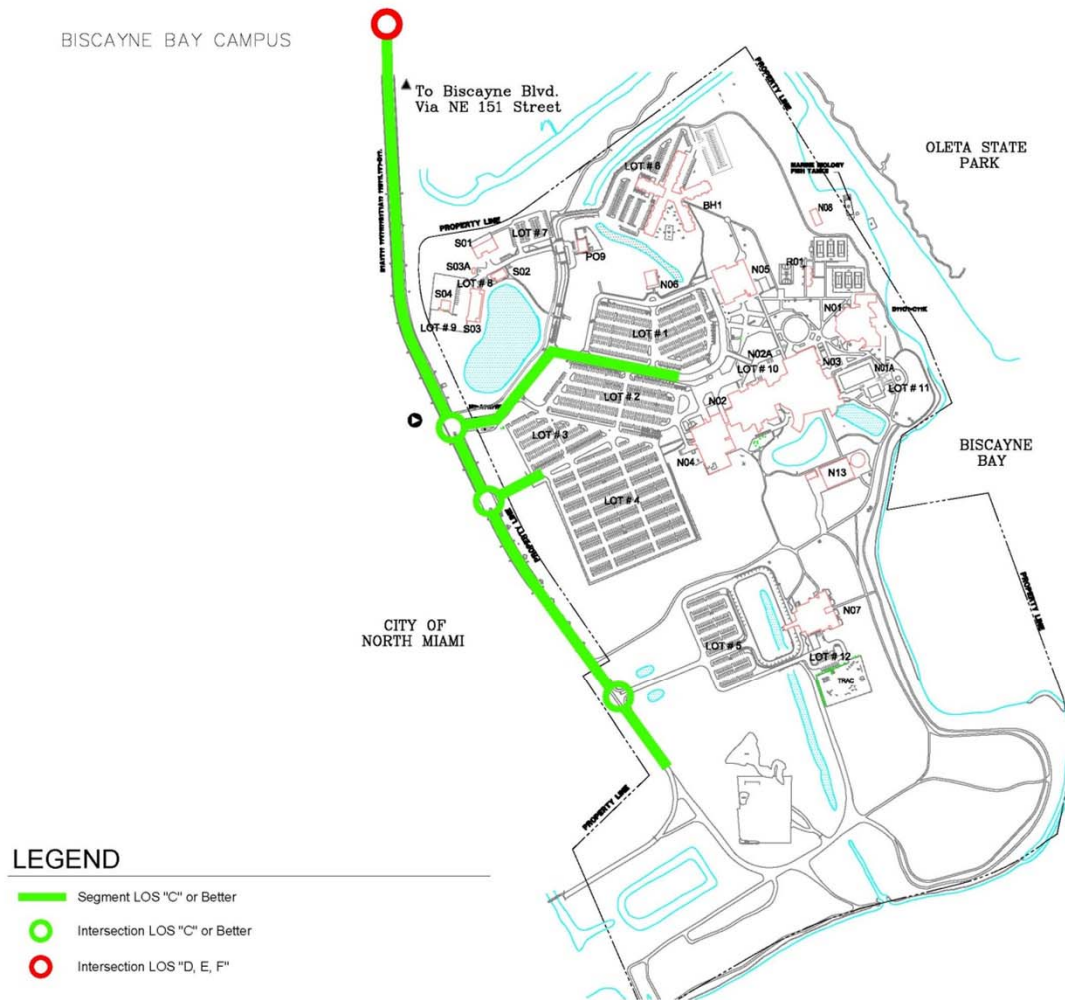
Issues/Discussions – BBC

On-Campus Roadway Issues (2020)

- **Level of Service (LOS) for campus roadway system decreases as additional volumes are generated**
 - **Additional University population**
 - **New partnerships with RCCL and MDCPS**
 - **LOS at main entry and (145th Street) is first intersection impacted**
- **Improvement of 145th Street as main entry**
 - **Provide adequate ROW area for adequate intersection improvements**
- **Magnet school may require significant transportation elements**
 - **Segregated staff/visitor, parent drop off and bus accesses**
 - **Provision of Safe Route to School elements (sidewalks, bike paths)**
 - **Adds to school time traffic in a.m. and p.m.**
 - **School Zone speed limits and enforcement**
- **Maintain primary vehicular circulation routes to west of large parking fields to minimize pedestrian conflicts**
 - **Traffic east of Lot 1 limited to drop off, service and transit uses**
- **Provide connectivity for planned recreational facilities at south end of campus**

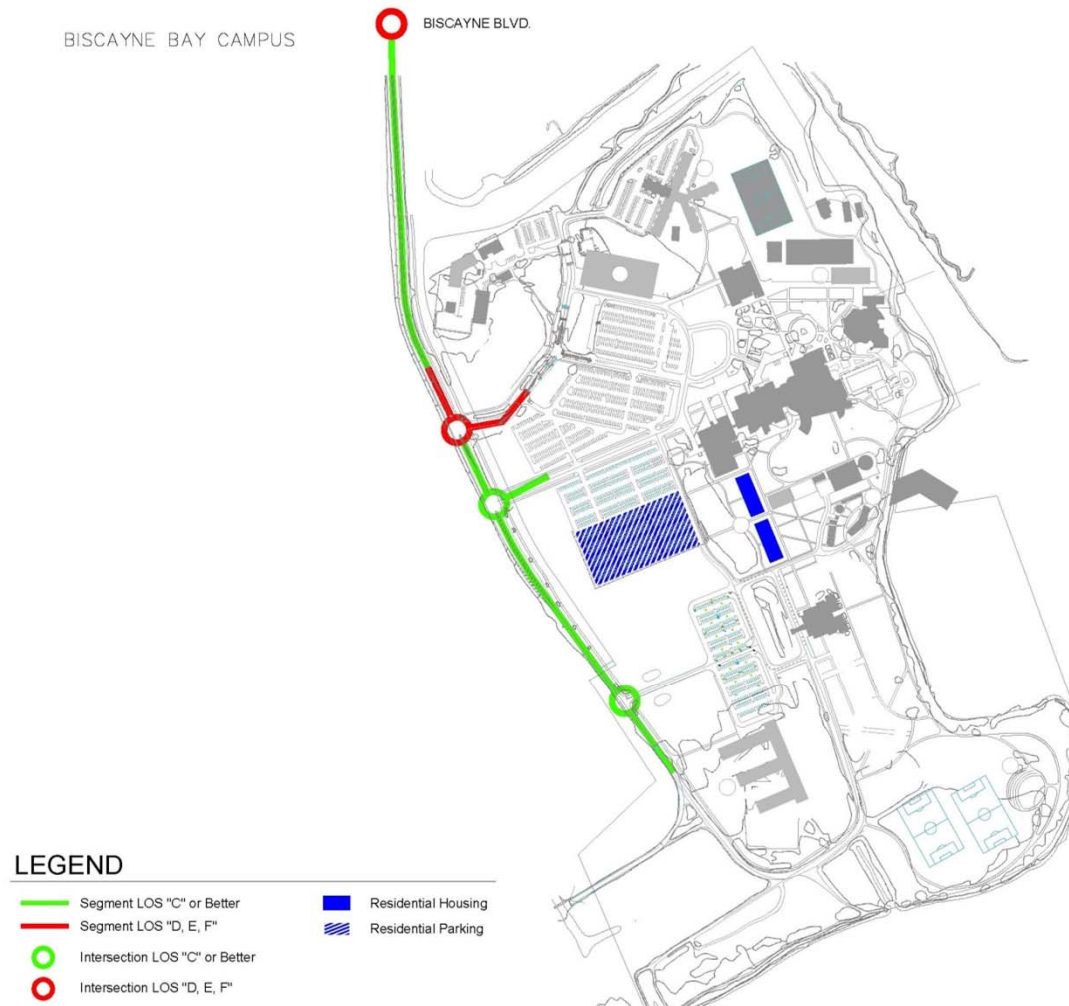
Transportation Concept Plan

2012 Existing Conditions



Transportation Concept Plan

2020 Traffic Capacity LOS w/ improvements and Resident Parking



Transportation Concept Plan

Issues/Discussions – BBC

Parking Issues (2020)

- Adequate parking capacity through 2020
- New resident halls don't have dedicated parking areas.
 - Dedicate student housing parking in area of Lot 4
- Parking for general population will be lost due to enhancement of new campus entry
- Parking to be provided at new south campus recreational facilities

Off- Campus Roadway Issues (2020)

- Adequate levels of service except at Biscayne Blvd. intersection
 - Improvements anticipated 2016
- Concern on impact from Biscayne Landing development volumes
- Impact from K-8 and High School traffic still significant during drop off/pick up times
- Second entrance to campus is desired to minimize continued degradation of LOS

Bike and Pedestrian Issues (2020)

- Pedestrian/bike link to Oleta State Park is provided community connectivity
- Improve Bicycle facilities on campus
- Continuous bike lane and sidewalks from Biscayne Boulevard

Transportation & Parking Inventory and Analysis – BBC

Off- Campus Roadways

- Adequate levels of service
- Improvements to Biscayne Boulevard and 151 Street intersection
- Need for continuous bike lanes/ connectivity
- Pedestrian friendly streetscapes

Transportation Demand Management Strategies

- Reduce parking reliance/demand
- Enhance transit ridership
- On-Campus housing
- Transit Oriented Development (TOD) – Biscayne Landings/transit hub

DISCUSSION

Focus Group #6 - Key Questions

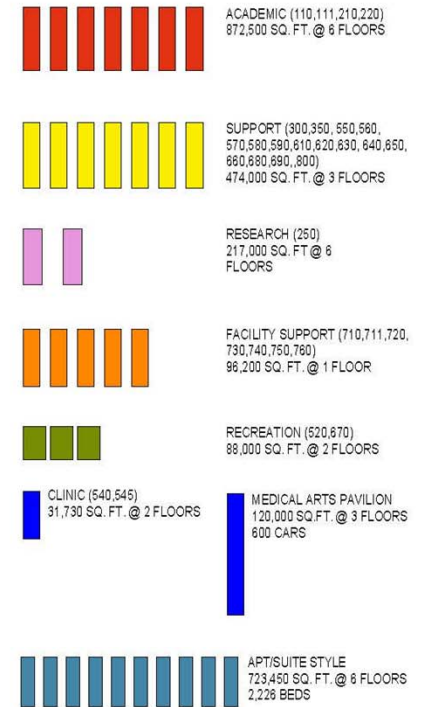
- Does circulation, parking facilities and transit stops promote a sustainable campus environment?
- Is zoning for parking appropriate?
- Are shuttle stops and student services well-coordinated?
- Are transit hubs appropriately located?
- Are bike parking hubs appropriately located?
- Are campus bike paths and service paths appropriately separated from walkways?
- Are campus bike paths well-coordinated with community bike paths?
- Are limited use / gated access points appropriately located?

Additional Resources

MMC – 2020 Space Needs



SPACE NEEDS 2020



PLANNED PROPERTY ACQUISITION

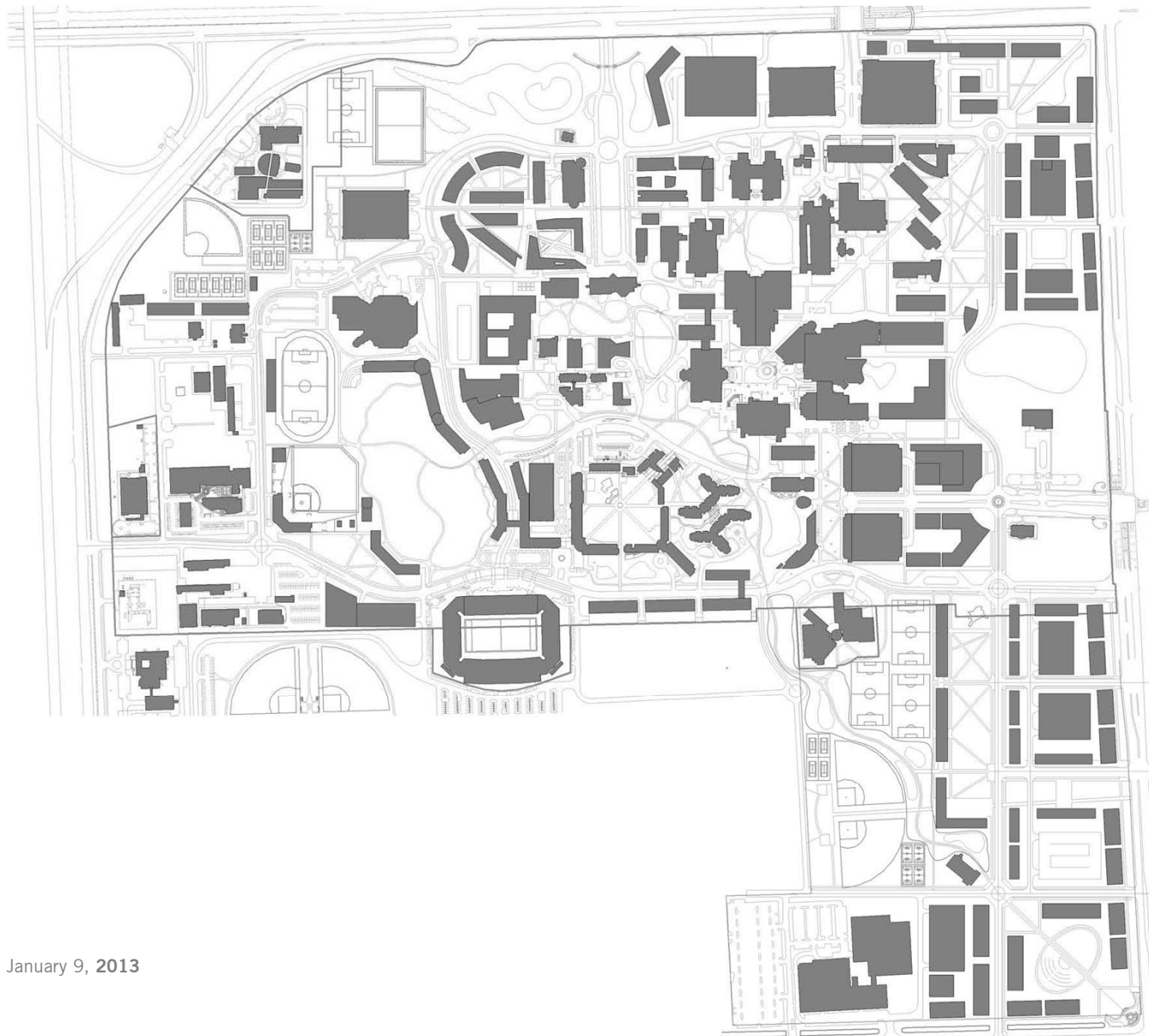
MODESTO MAIDIQUE CAMPUS

2020 SPACE NEEDS / PLANNED PROJECTS

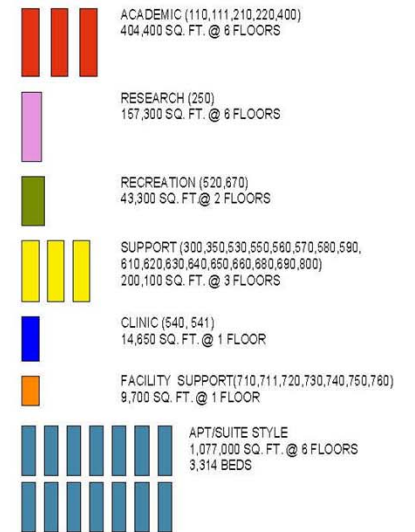


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MMC – 2035 Space Needs



ADDED SPACE NEEDS 2035



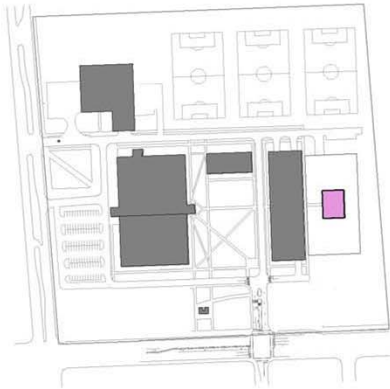
MODESTO MAIDIQUE CAMPUS

2035 SPACE NEEDS



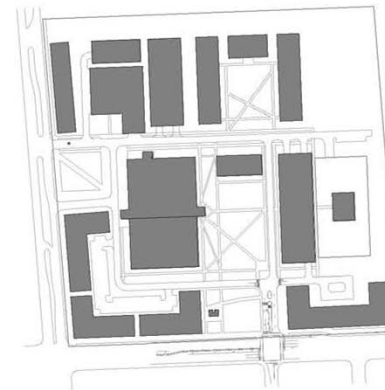
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EC – 2020+2035 Space Needs



SPACE NEEDS 2020

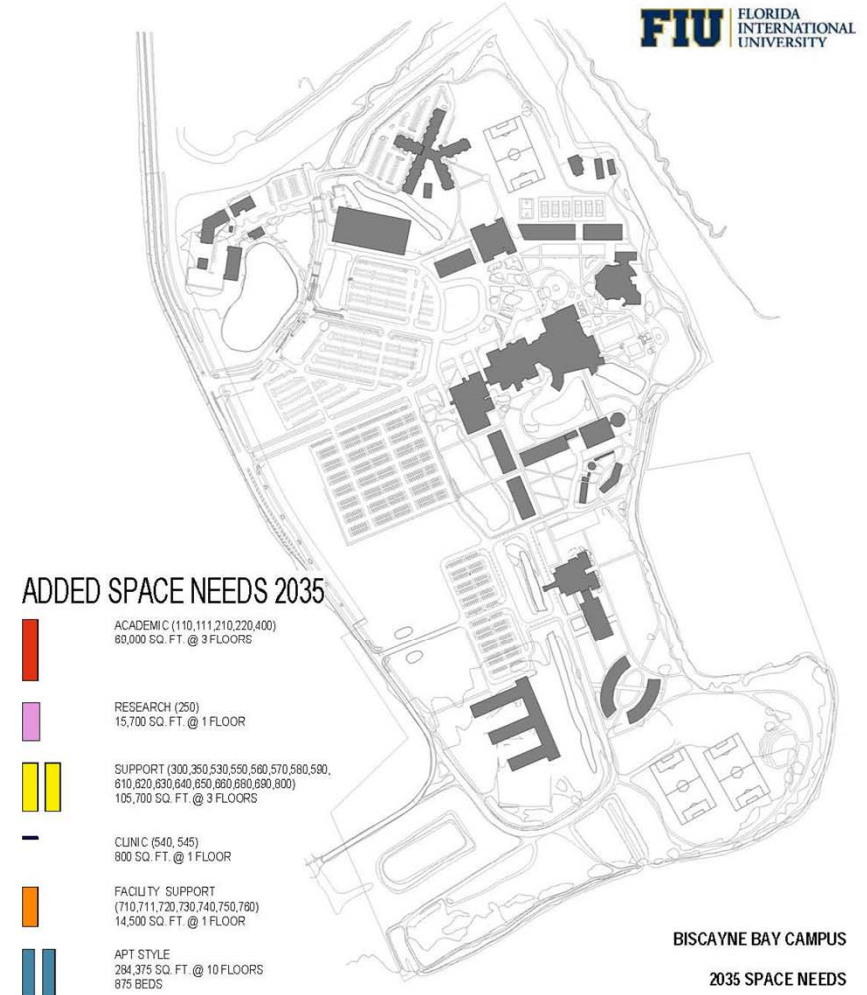
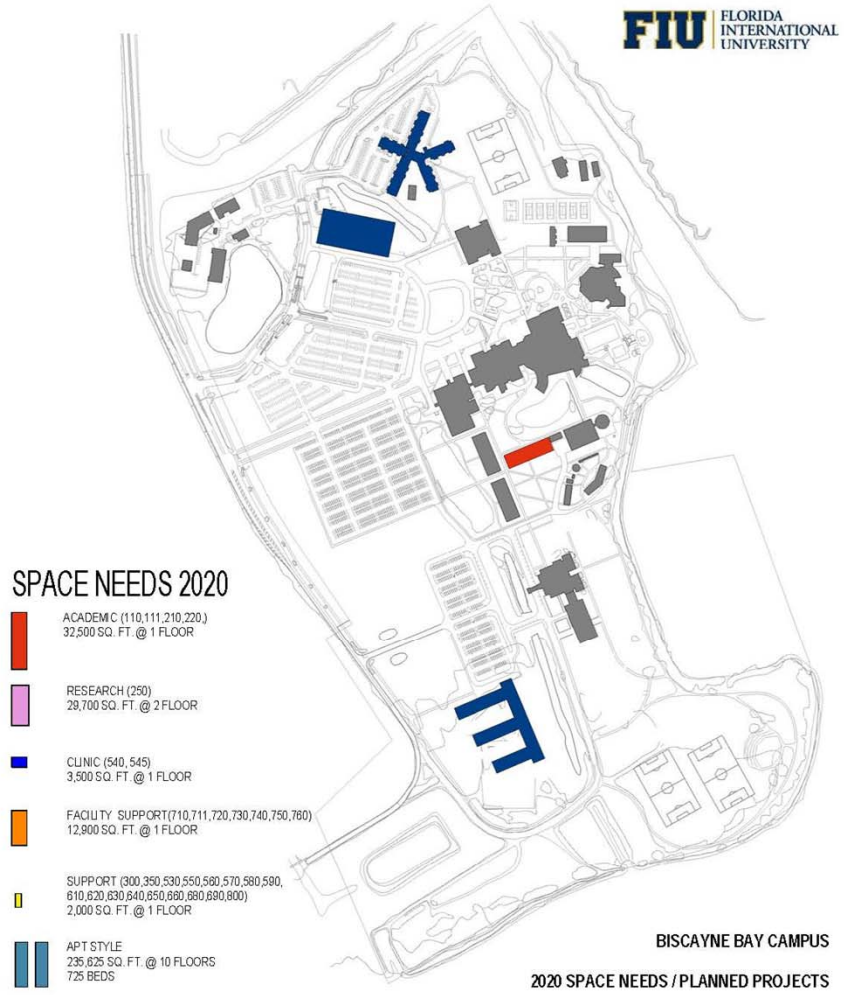
- ACADEMIC (110,111,210,220)
46,600 SQ. FT. @ 2 FLOORS
- RECREATION (520, 670)
2,900 SQ. FT. @ 1 FLOOR
- FACILITY SUPPORT (710,711,720,730,740,750,760)
7,800 SQ. FT. @ 1 FLOOR



ADDED SPACE NEEDS 2035

- ACADEMIC (110,111,210,220,400)
37,700 SQ. FT. @ 2 FLOORS
- RECREATION (520,670)
1,000 SQ. FT. @ 1 FLOOR
- SUPPORT (300,350,530,550,560,570,580,590,610,620,630,640,650,660,680,690,800)
18,600 SQ. FT. @ 1 FLOORS
- FACILITY SUPPORT (710,711,720,730,740,750,760)
4,300 SQ. FT. @ 1 FLOOR

BBC – 2020+2035 Space Needs



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