



Kimley-Horn
and Associates, Inc.

Memorandum

To: Gene Kluesner, AIA, LEED AP
From: Adrian Dabkowski, P.E. (LA) *AD*
Date: February 12, 2008
Subject: Florida International University (FIU)
Health Science Center
Parking Demand Study

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Suite 109
5200 N.W. 33rd Avenue
Ft. Lauderdale, Florida
33309

The purpose of this memorandum is to summarize the parking demand and availability for the proposed FIU Health Science Center. The proposed center is located on the northeast quadrant of the main campus. It is currently occupied by parking lots 1 and 2, overflow parking, and residence halls A through L. A map of the campus is provided in Attachment A.

Available Parking

An analysis of available parking in the northeast quadrant of the campus was prepared for existing, 5-year build-out, 10 year build-out, and 20 year build-out scenarios. In addition to accounting for the new parking garages that will be constructed, the removal of existing parking to accommodate this construction was examined. The existing parking lots that will be removed in future conditions include the following:

- Lot 1: 227 available spaces, 100% utilization, removed in 10 year build-out
- Lot 2: 674 available spaces, 100% utilization, 607 spaces removed in 5 year build-out, remainder removed in 10 year build-out
- Lot 14 (Residence Lot): 368 available spaces, assumed 100% utilization, 184 spaces removed in 10 year build-out, remainder removed in 20 year build-out
- Overflow Lot: 300 available spaces (assumed), 55% utilization, removed in 5 year build-out

All parking space and utilization rates were based on data provided by FIU which is included in Attachment A. A utilization rate for lot 14 was not provided, a utilization rate of 100% was assumed. The number of spaces provided in the overflow lot was also assumed.

Three parking structures will be constructed in future build-out conditions. The first structure to be constructed will be Parking Garage #5 which will provide 1,400 parking spaces in the 5 year build-out conditions. Parking Garage #6 (Mixed-use) will provide 930 parking spaces and will be constructed in the 10 year build-out condition and Parking Garage #7 will be constructed in the 20 year build-out condition and provide 1,400 parking spaces.

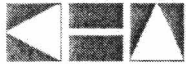



Table B1 – Available Parking, contained in Attachment B, illustrates the parking that is provided under existing, 5 year build-out, 10 year build-out, and 20 year build-out for the Health Science Center. This table accounts for parking that will be displaced when lots 1, 2, 14, and the overflow lot are removed. When accounting for the total displaced parking the net new provided parking in the 5 year build-out is 493 spaces, 945 spaces for the 10 year build-out, and 2,161 spaces in the 20 year build-out.

Parking Generation without Metrorail Consideration

Parking generation calculations for the proposed development were performed using Institute of Transportation Engineer’s (ITE) *Parking Generation*, 3rd Edition utilizing ITE Land Use Code 550 (University/College, Suburban Location). The parking generation estimates were developed using the ITE parking demand equation. Future population values were based on Program Goals and Assumptions provided by Perkins + Will dated January 8, 2008 and provided in Attachment C. Future parking demand is presented in *Table 1 – Future Parking Demand*.

TABLE 1 FUTURE PARKING DEMAND FIU - Health Science Center		
Land Use	Population Increase	Parking Demand Increase
<u>College/University</u>		
5 Year	2,775	644
10 Year	2,466	538
20 Year	4,751	1,315
Notes: Parking Demand was calculated using the following data from <i>ITE Parking Generation, Third Edition</i> :		
Weekday Peak Period Parking Demand University/College (Suburban)	[ITE 550]	$P = 0.34 (X) - 300$
 Kimley-Horn and Associates, Inc.		

Parking Sufficiency Determination without Metrorail Consideration

Based on the projected population and parking demand a parking sufficiency determination was prepared for the 5 year build-out, 10 year build-out, and 20 year build-out. The analysis determined that the proposed available parking will be insufficient for the expected parking demand for all future year scenarios. Under the 5 year buildout condition an additional 151 parking spaces will be required to meet parking demand. The 10 year buildout will require an additional 237 parking spaces and the 20 year buildout will require an additional 337 parking spaces to meet parking demand. A comparison between parking demand and available parking is presented in *Table 2 – Parking Demand and Availability*.

**TABLE 2
PARKING DEMAND AND AVAILABILITY
FIU - Health Science Center**

Land Use	Population Increase	Cumulative Population Increase	Increased Parking Demand	Cumulative Parking Demand ⁽¹⁾	Cumulative Net New Parking Northeast Quadrant	Available Parking
<u>College/University</u>						
5 Year	2,775	2,775	644	644	493	(151)
10 Year	2,466	5,241	538	1,182	945	(237)
20 Year	4,751	9,992	1,315	2,498	2,161	(337)

Notes: Parking Demand was calculated using the following data from *ITE Parking Generation, Third Edition*:

Weekday Peak Period Parking Demand

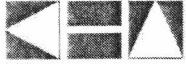
University/College [ITE 550] $P = 0.34 (X) - 300$

Note:

⁽¹⁾ Summation of the Increased Parking Demand for each build-out year


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Parking Sufficiency Determination with Metrorail Connection

A parking sufficiency determination was prepared in considering the proposed Metrorail connection with FIU. The Metrorail connection is proposed to be in place by August 2016. The connection was utilized in the 10 year and 20 year build-out connections. The proposed station and walkway connection to FIU is assumed to be covered from the elements and not at-grade with any roadways. Assuming these conditions and considering the trip patterns of a university campus and medical facilities a 15% vehicle trip reduction based on ITE's *Trip Generation Handbook*, 2nd Edition. Based on this reduction Table 3 – Future Parking Demand with Metrorail Consideration provides a summary of future parking demand.

TABLE 3 FUTURE PARKING DEMAND WITH METRORAIL CONSIDERATION FIU - Health Science Center		
Land Use	Population Increase	Parking Demand Increase
<u>College/University</u>		
5 Year	2,775	644
10 Year	2,466	458
20 Year	4,751	1,118
Notes: Parking Demand was calculated using the following data from <i>ITE Parking Generation, Third Edition</i> :		
Weekday Peak Period Parking Demand University/College (Suburban)	[ITE 550]	P = 0.34 (X) - 300
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The analysis determined that the proposed available parking will be insufficient for all future scenarios. Under the 5 year build-out condition an additional 151 parking spaces will be required to meet parking demand. The 10 year build-out will require an additional 156 parking spaces to meet parking demand. The 20 year build-out will require an additional 58 parking spaces to meet parking demand.

**TABLE 4
PARKING DEMAND AND AVAILABILITY WITH METRORAIL CONSIDERATION
FIU - Health Science Center**

Land Use	Population Increase	Cumulative Population Increase	Increased Parking Demand	Cumulative Parking Demand ⁽¹⁾	Cumulative Net New Parking Northeast Quadrant	Available Parking
<u>College/University</u>						
5 Year	2,775	2,775	644	644	493	(151)
10 Year	2,466	5,241	458	1,101	945	(156)
20 Year	4,751	9,992	1,118	2,219	2,161	(58)

Notes: Parking Demand was calculated using the following data from *ITE Parking Generation, Third Edition*:

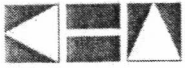
Weekday Peak Period Parking Demand

University/College [ITE 550] P = 0.34 (X) - 300

Note:

⁽¹⁾ Summation of the Increased Parking Demand for each build-out year

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Miami-Dade Parking Code Determination

An analysis was prepared for informational purposes to document the excessive requirements of the Miami-Dade Parking Code. Based on the Code the total required parking for 5 year, 10 year, and 20 year build-out periods is 14,407 spaces. Please note that this analysis was prepared for informational purposes Attachment D provides a break down of the parking required by land-use and build-out year.

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ATTACHMENT A

**FLORIDA INTERNATIONAL UNIVERSITY
UNIVERSITY PARK**

OFFICIAL PARKING STATISTICS, FALL 2007

LOCATION	DATE: 10-08-07 DAY: MONDAY WEATHER: SUNNY TIME: 11:00-11:30 AM		DATE: 10-09-07 DAY: TUESDAY WEATHER: SUNNY TIME: 11:00-11:30 AM		DATE: 10-10-07 DAY: WEDNESDAY WEATHER: CLOUDY TIME: 11:00-11:30 AM		DATE: 10-11-07 DAY: THURSDAY WEATHER: SUNNY TIME: 11:00-11:30 AM		DATE: 10-12-07 DAY: FRIDAY WEATHER: SUNNY TIME: 11:00-11:30 AM	
	AVAIL. SPACES	* ADDT'L VEHICLES	AVAIL. SPACES	* ADDT'L VEHICLES	AVAIL. SPACES	* ADDT'L VEHICLES	AVAIL. SPACES	* ADDT'L VEHICLES	AVAIL. SPACES	* ADDT'L VEHICLES
LOT - 1	0	0	0	2	0	8	0	3	0	1
LOT - 2	0	0	0	0	0	1	0	0	14	0
LOT - 3	0	2	0	0	0	3	0	1	0	4
LOT - 4	0	0	0	2	0	1	0	0	0	0
LOT - 5	162	0	95	0	57	0	85	0	147	0
LOT - 6	0	4	0	4	0	4	0	0	22	0
LOT - 7	66	0	47	0	62	0	54	0	73	0
LOT - 8	0	0	0	0	0	0	0	0	0	0
LOT - 9	0	0	0	0	0	0	0	0	0	0
LOT - 10	0	0	52	0	29	0	87	0	67	0
OVERFLOW LOT	190	0	121	0	58	0	176	0	269	0
TAMIAMI PARK	0	92	0	84	0	105	0	75	0	85
GOLD GARAGE - PG-1	0	6	0	7	0	9	0	15	0	10
BLUE GARAGE - PG-2	0	0	0	1	0	3	0	0	19	0
PANTHER GARAGE - PG-3	495	0	470	0	441	0	566	0	823	0
RED GARAGE - PG-4	0	0	0	6	0	2	0	0	109	1

TOTAL	913	104	785	106	647	136	968	94	1543	101
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** ADDITIONAL FUTURE PARKING SPACES NEEDED	(809)	(679)	(511)	(874)	(1442)
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LOCATION	DATE: 10-08-07 DAY: MONDAY WEATHER: SUNNY TIME: 2:00-2:30 PM		DATE: 10-09-07 DAY: TUESDAY WEATHER: SUNNY TIME: 2:00-2:30 PM		DATE: 10-10-07 DAY: WEDNESDAY WEATHER: RAIN TIME: 2:00-2:30 PM		DATE: 10-11-07 DAY: THURSDAY WEATHER: SUNNY TIME: 2:00-2:30 PM		DATE: 10-12-07 DAY: FRIDAY WEATHER: SUNNY TIME: 2:00-2:30 PM	
	AVAIL. SPACES	* ADDT'L VEHICLES	AVAIL. SPACES	* ADDT'L VEHICLES	AVAIL. SPACES	* ADDT'L VEHICLES	AVAIL. SPACES	* ADDT'L VEHICLES	AVAIL. SPACES	* ADDT'L VEHICLES
LOT - 1	0	0	0	5	0	8	0	4	0	0
LOT - 2	0	0	0	0	0	0	0	3	28	0
LOT - 3	0	0	0	0	0	1	0	1	16	2
LOT - 4	0	0	0	2	0	0	0	0	8	0
LOT - 5	141	0	101	0	65	0	129	0	192	0
LOT - 6	0	1	10	0	0	3	20	2	30	1
LOT - 7	57	0	42	0	62	0	36	0	47	12
LOT - 8	0	0	0	0	0	0	0	0	0	0
LOT - 9	0	0	0	0	0	0	0	0	0	0
LOT - 10	0	0	7	0	19	0	62	0	84	0
OVERFLOW LOT	172	0	20	0	73	0	108	0	284	0
TAMIAMI PARK	0	94	0	98	0	98	0	82	0	58
GOLD GARAGE - PG-1	0	3	0	6	0	11	0	7	13	1
BLUE GARAGE - PG-2	0	0	0	0	0	13	72	2	51	0
PANTHER GARAGE - PG-3	451	0	432	0	462	0	534	0	942	0
RED GARAGE - PG-4	0	0	0	6	0	2	0	2	335	0

TOTAL	821	98	612	117	681	136	961	103	2030	74
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** ADDITIONAL FUTURE PARKING SPACES NEEDED	(723)	(495)	(545)	(858)	(1956)
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* GRASS PARKING / VEHICLES PARKED IN NONE DESIGNATED AREAS
 ** ADDITIONAL VEHICLES MINUS (-) AVAILABLE PARKING SPACES.

Florida International University
Parking Facilities

University Park - Parking Lot Counts By Space Type

File Name: UP-PC

LOT #	SPACE TYPE														TOTAL
	EXECUTIVE	ADMIN.	FAC/ STAFF	STUDENT	RESIDENT	RESERVE	DISABLED	METERED SINGLE SP	METERED MULTI SP	MOTOR BIKE	STATE VEHICLE	FIU POLICE	SERVICE DELIVERY	TIME LIMIT	
1	0	14	50	151	0	0	0	0	0	2	10	0	0	0	227
2	0	12	87	564	0	0	0	0	0	1	10	0	0	0	674
3	0	4	101	390	0	0	4	0	58	0	0	0	0	0	557
4	0	0	0	165	0	0	0	8	0	0	0	0	0	0	173
5	0	3	24	499	0	0	0	0	0	0	5	0	2	0	533
6	0	0	15	0	359	0	0	12	0	0	0	0	0	0	386
7	0	0	25	345	0	0	4	2	0	1	0	0	0	0	377
8	1	14	114	20	0	8	9	10	0	1	3	0	0	0	180
9	2	20	196	171	0	0	6	20	0	1	0	0	0	0	416
10	0	0	7	224	0	0	2	7	0	1	0	0	0	0	241
11	0	5	25	0	0	0	4	0	0	0	2	0	0	0	36
12	0	0	10	0	219	0	6	2	0	1	0	0	0	0	238
13	0	0	20	0	66	0	4	2	0	1	0	0	0	0	93
14	0	0	9	0	345	0	9	2	0	1	2	0	0	0	368
15	1	15	0	0	0	2	9	0	0	0	1	17	0	1	46
16	2	0	0	0	0	1	6	0	0	0	3	0	0	3	15
17	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5
18	3	0	0	0	0	0	10	2	0	0	0	0	5	0	20
19	0	0	0	0	0	0	4	0	0	0	0	0	0	3	7
20	0	0	0	0	0	0	0	3	0	0	4	0	1	0	8
21	2	0	0	0	0	0	0	10	0	0	12	0	0	3	27
22	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
23	0	0	4	0	0	0	1	0	0	0	0	0	0	0	5
24	1	2	15	19	0	0	2	0	0	0	0	0	0	0	39
25	0	0	0	0	0	0	0	0	0	0	37	0	0	0	37
26	4	24	122	0	0	0	4	11	0	0	18	0	0	0	183
27	0	0	22	0	0	0	1	0	0	0	50	0	0	1	74
28	0	0	5	5	0	0	0	0	0	0	0	0	2	0	12
29	0	3	10	44	0	0	0	0	0	0	4	0	1	0	62
30	0	3	35	0	0	0	4	2	0	0	2	0	0	0	46
31	0	0	7	62	0	0	1	0	0	0	0	0	0	0	70
32	16	0	0	0	0	2	8	0	0	0	2	0	0	0	28
33	3	0	0	0	0	0	8	0	56	0	2	0	0	0	69
34	0	0	0	56	0	0	0	0	0	0	0	0	0	0	56
GOLD PG	17	125	172	649	0	0	16	0	16	4	1	2	0	0	1002
BLUE PG	0	24	255	679	0	0	6	0	36	0	0	2	0	0	1002
PANTHER PG	0	24	63	1329	0	0	8	0	16	2	4	2	0	0	1448
RED PG	1	56	256	1082	0	0	8	0	32	3	0	2	0	0	1440
															0
															0
															0
															0
															0
															0
TOTAL	53	348	1649	6454	989	13	148	93	214	19	177	25	11	11	10204

PARKING LOT COUNTS BY SPACE - UNIVERSITY WIDE															
TOTAL	72	377	2152	8450	1187	13	212	124	308	29	203	34	23	11	13195

ATTACHMENT B

TABLE B1
AVAILABLE PARKING
FIU - Health Science Center (Northeast Quadrant of Campus)

Land Use	2007 Average Weekday Lot Occupancy ^[1]	2007 Spaces Provided ^[1]	5 Year Spaces Provided	10 Year Spaces Provided	20 Year Spaces Provided
Facility Type					
Lot 1	100%	227	227	-	-
Lot 2	100%	674	67	-	-
Lot 14 (Residence Lot)	100% (assumed)	368	368	184	-
Overflow Lot ^[2]	55%	300	-	-	-
Red Parking Garage	100%	1,440	1,440	1,440	1,440
Parking Garage #5		-	1,400	1,400	1,400
Parking Garage #6 (Mixed Use)		-	-	930	930
Parking Garage #7		-	-	-	1,400
Total Provided Parking		3,009	3,502	3,954	5,170
Displaced occupied parking		-	(772)	(1,250)	(1,434)
Total Available Parking (including displaced parking)		3,009	2,731	2,704	3,736
Net New Provided Parking		-	493	945	2,161

^[1] Based on FIU provided data

^[2] Assumed 100% utilization in future analyses, due to location and proximity to campus

ATTACHMENT C

Program Goals and Assumptions

Goals / Assumptions	Teaching / Research	2007	5 Year	10 Year	20 Year	Clinical / Patient Care	5 Year	10 Year	20 Year
Fundable Student FTE						Patient Volume			
AHSC	College of Medicine	0	160	480	480	Pediatrics			
	College of Nursing and Health Sciences					OB/ GYN			
	Athletic Training	32	45	63	113				
	Communication Sciences and Disorders	197	276	396	695				
	Health Information Management	71	99	139	250				
	Health Sciences	750	1050	1470	2646				
	Nursing	857	1200	1660	3024				
	Occupational Therapy	205	287	402	723				
	Physical Therapy	209	293	410	738				
	School of Public Health	600	700	900	1000				
	School of Pharmacy	-	-	-	TBD				
	School of Social Work	?	?	?	?				
Arts and Sciences	Biological Sciences	1043	1388	1530	1690				
	Chemistry/ Biochemistry	791	1137	1255	1400				
	Environmental Studies	261	375	420	460				
	Physics	446	577	640	700				
	Psychology	1250	1550	1710	1900				
	Statistics	525	655	725	800				
Engineering	Biomedical Engineering	60	?	?	?				
Faculty FTE/ PI						Physician HC			
AHSC	College of Medicine	16	66	75	75				
	College of Nursing and Health Sciences								
	Athletic Training	3	4	6	10				
	Communication Sciences and Disorders	6	8	11	20				
	Health Information Management	2	3	4	7				
	Health Sciences	2	3	4	7				
	Nursing	44	62	87	156				
	Occupational Therapy	7	10	14	25				
	Physical Therapy	8	11	15	27				
	School of Public Health	42	50	55	65				
	School of Pharmacy	-	-	-	TBD				
	School of Social Work	?	?	?	?				
Arts and Sciences	Biological Sciences	50	87	74	80				
	Chemistry/ Biochemistry	32	46	56	62				
	Environmental Studies	15	18	22	24				
	Physics	24	31	34	38				
	Psychology	27	38	42	48				
	Statistics	14	18	20	24				
Engineering	Biomedical Engineering	?	?	?	?				
Staff FTE						Staff FTE			
AHSC	College of Medicine	19	125	172	172				
	College of Nursing and Health Sciences								
	Athletic Training	1	1	1	2				
	Communication Sciences and Disorders	1	1	1	2				
	Health Information Management	1	1	1	2				
	Health Sciences	2	3	4	7				
	Nursing	32	45	63	113				
	Occupational Therapy	1	1	1	2				
	Physical Therapy	1	1	1	2				
	School of Public Health	15	17	20	23				
	School of Pharmacy	-	-	-	TBD				
	School of Social Work	?	?	?	?				
Arts and Sciences	Biological Sciences	12	16	20	22				
	Chemistry/ Biochemistry	10	13	16	20				
	Environmental Studies	3	5	6	8				
	Physics	9	11	13	15				
	Psychology	7	10	12	15				
	Statistics	1	2	3	4				
Engineering	Biomedical Engineering	?	?	?	?				
Partners	Center for Research in Medical Education (CRME)	✓	✓	✓	✓	Jackson Memorial	✓	✓	✓
						Miami Children's		✓	✓
						MI Sinai			✓
						Outpatient - Jackson Health System	✓	✓	✓

	Teaching/Research	2007	5 Year	10 Year	20 Year
Fundable Students					
	College of Medicine	0	160	480	480
	College of Nursing and Health Sciences				
	Athletic Training	32	45	63	113
	Communication Sciences and Disorders	197	276	366	695
	Health Information Management	71	99	139	250
	Health Services	750	1050	1470	2646
	Nursing	857	1200	1680	3024
	Occupational Therapy	205	287	402	723
	Physical Therapy	209	293	410	738
	School of Public Health	600	700	800	1000
	School of Pharmacy	-	-	-	TBD
	School Of Social Work	?	?	?	?
	Biological Sciences	1043	1388	1530	1690
	Chemistry/Biochemistry	791	1137	1255	1400
	Environmental Studies	261	375	420	460
	Physics	446	577	640	700
	Psychology	1250	1550	1710	1900
	Statistics	525	655	725	800
	Biomedical Engineering	60	?	?	?
Faculty					
	College of Medicine	16	66	75	75
	College of Nursing and Health Sciences				
	Athletic Training	3	4	6	10
	Communication Sciences and Disorders	6	8	11	20
	Health Information Management	2	3	4	7
	Health Sciences	2	3	4	7
	Nursing	44	62	87	156
	Occupational Therapy	7	10	14	25
	Physical Therapy	8	11	15	27
	School of Public Health	42	50	55	65
	School of Pharmacy	-	-	-	TBD
	School of Social Work	?	?	?	?
	Biological Sciences	50	67	74	80
	Chemistry/Biochemistry	32	46	56	62
	Environmental Studies	15	18	22	24
	Physics	24	31	34	38
	Psychology	27	38	42	48
	Statistics	14	18	20	24
	Biomedical Engineering	?	?	?	?
Staff					
	College of Medicine	19	125	172	172
	College of Nursing and Health Sciences				
	Athletic Training	1	1	1	2
	Communication Sciences and Disorders	1	1	1	2
	Health Information Management	1	1	1	2
	Health Sciences	2	3	4	7
	Nursing	32	45	63	113
	Occupational Therapy	1	1	1	2
	Physical Therapy	1	1	1	2
	School of Public Health	15	17	20	23
	School of Pharmacy	-	-	-	TBD
	School of Social Work	?	?	?	?
	Biological Sciences	12	16	20	22
	Chemistry/Biochemistry	10	13	18	20
	Environmental Studies	3	5	6	8
	Physics	9	11	13	15
	Psychology	7	10	12	15
	Statistics	1	2	3	4
	Biomedical Engineering	?	?	?	?
		7704	10479	12945	17696
	Difference	2775	2466	4751	

ATTACHMENT D

Goals/Assumptions	Teaching/Research/Other	5 Year	10 Year	20 year	Future	Miami-Dade Parking Ratio	Required Parking
Facilities/Space Needs	Building Use						
5 Year	College of Nursing & Health Sciences	101,000				1:200	505
	Miami-Dade Dept. of Health Bldg plus FIU School of Public Health	106,500				1:200	533
		33,600				1:200	168
	HLS-3: Science Classroom Complex 1 Plus Graduate Classroom Building	138,800				1:200	694
		59,120				1:200	296
	Parking Garage 5/ Retail/ Public Safety	1,400					
		Spaces					
	Mixed Use/ Retail/ Office	85,000				1:250	340
Ambulatory Care Clinic	60,000				1:200	300	
Phase 1-Satellite Chiller Plant	10,000						
	Total 5 Year						2,936
10 Year	College of Medicine Bldg		150,000			1:200	750
	Medical Office Building /Clinic (88,000/47,000)		135,000			1:200	675
	Science Lab Complex		127,200			1:200	636
	Vivarium (* allocated in Research Building)		50,000			1:200	250
	Conservatory Expansion		TBD				
	AHSC Library (In Greene Library)		TBD				
	ASRA Auditorium/Conference/Learning Center		125,000			1:100	1,250
	Hotel (200 room)		175,000			First 40 1:1.41 and up 1:2	120
			930				
	Parking Garage 6/Retail		Spaces				
	Mixed Use/ Retail/ Office		210,000			1:250	840
	Phase 2-Satellite Chiller Plant		15,000				
	Research Building - 1 (Biochemistry)		200,000			1:200	1,000
	Research Building - 2 (Microbiology with Vivarium)		200,000			1:200	1,000
Research Building - 3 (Public Health / Social Work)		125,000			1:200	625	
	Total 10 Year						7,146
20 Year	Phase 3-Satellite Chiller Plant			15,000			
	Faculty Office Building - Health Sciences			100,000		1:200	500
	Chemistry / Physics Addition			75,000		1:200	375
	Pharmacy Building			100,000		1:200	500
	Research Building - 4 (Molecular Biology with Vivarium Expansion)			210,000		1:200	1,050
	Research Building - 5 (Environmental Studies)			150,000		1:200	750
	Research Building - 6 (Biochemistry)			150,000		1:200	750
	Research Building - 7 (Biomed-Engineering)			100,000		1:200	500
	Total 20 Year						4,425

14,407

**TABLE 4
PARKING DEMAND AND AVAILABILITY WITH METRORAIL CONSIDERATION
FIU - Health Science Center**

Land Use		Population Increase	Cumulative Population Increase	Increased Parking Demand	Cumulative Parking Demand ^[1]	Cumulative Net New Parking Northeast Quadrant	Available Parking
<u>College/University</u>	5 Year	2,775	2,775	644	644	493	(151)
	10 Year	2,466	5,241	458	1,101	1,131	30
	20 Year	4,751	9,992	1,118	2,219	2,347	128

Notes: Parking Demand was calculated using the following data from *ITE Parking Generation, Third Edition*:

Weekday Peak Period Parking Demand
University/College

[ITE 550] $P = 0.34 (X) - 300$

Note:

^[1] Summation of the Increased Parking Demand for each build-out year

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UPDATED PER 2/19/08 PLANS