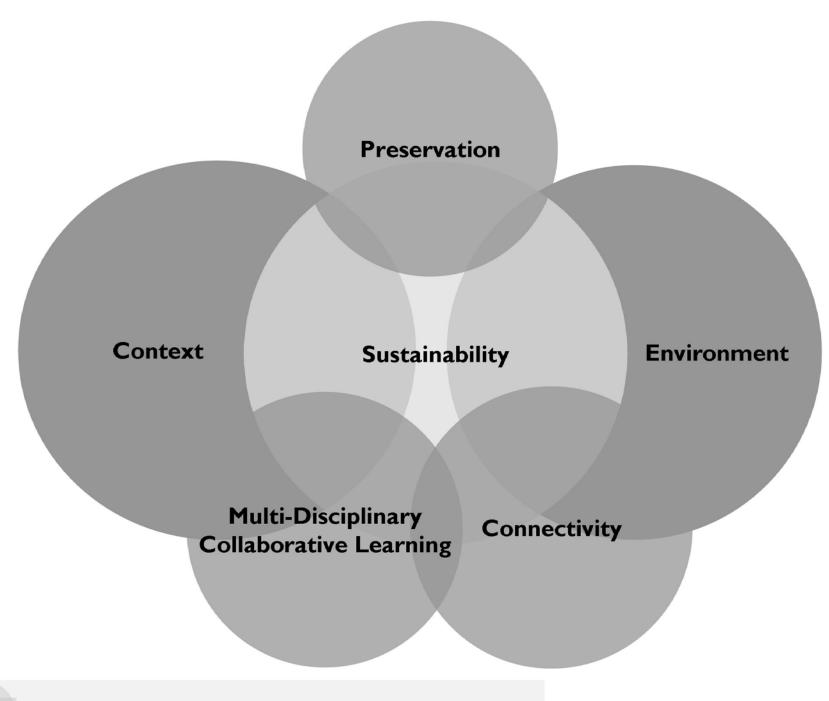
University of Virginia Grounds Plan Preferred Direction

David J. Neuman, FAIA, Architect for the University

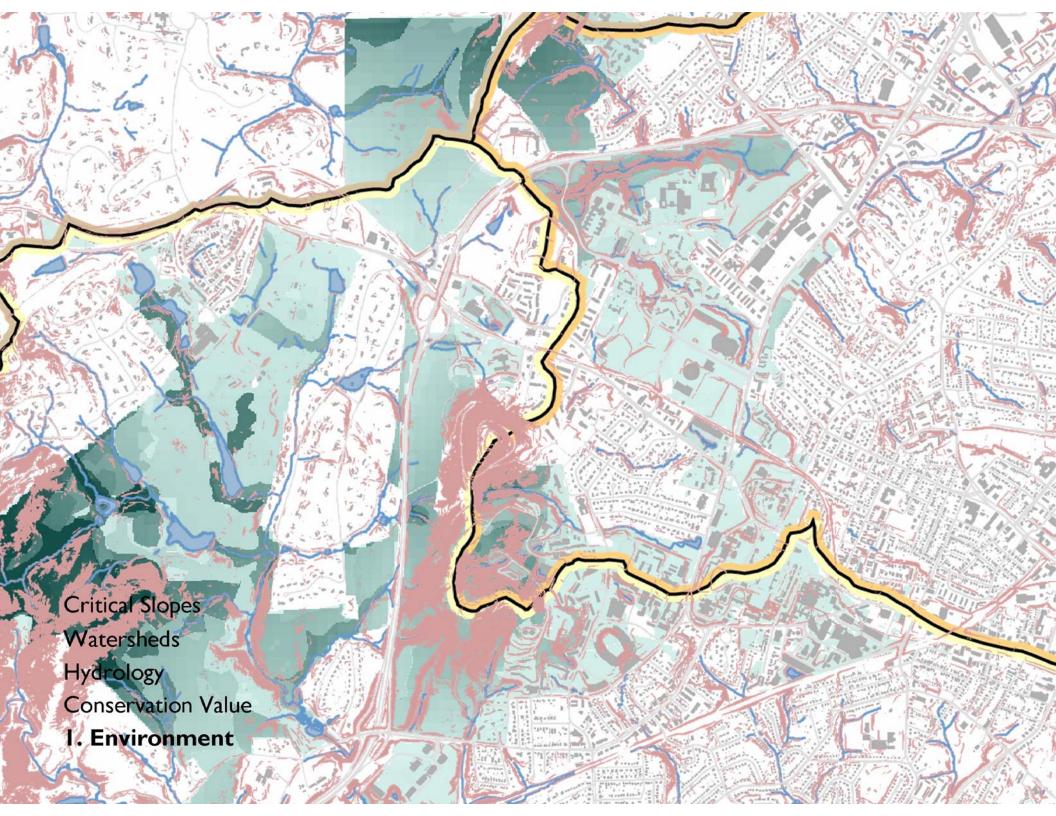
Julia Monteith, AICP, Senior Land Use Planner

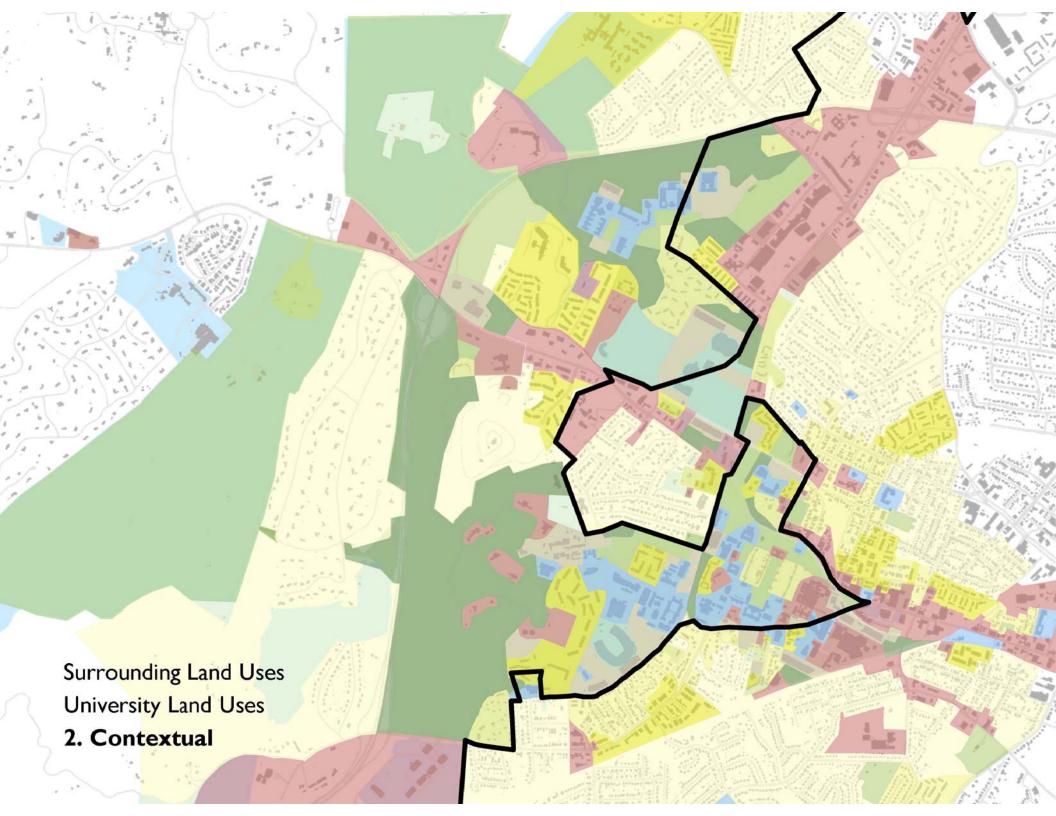
June 15, 2007

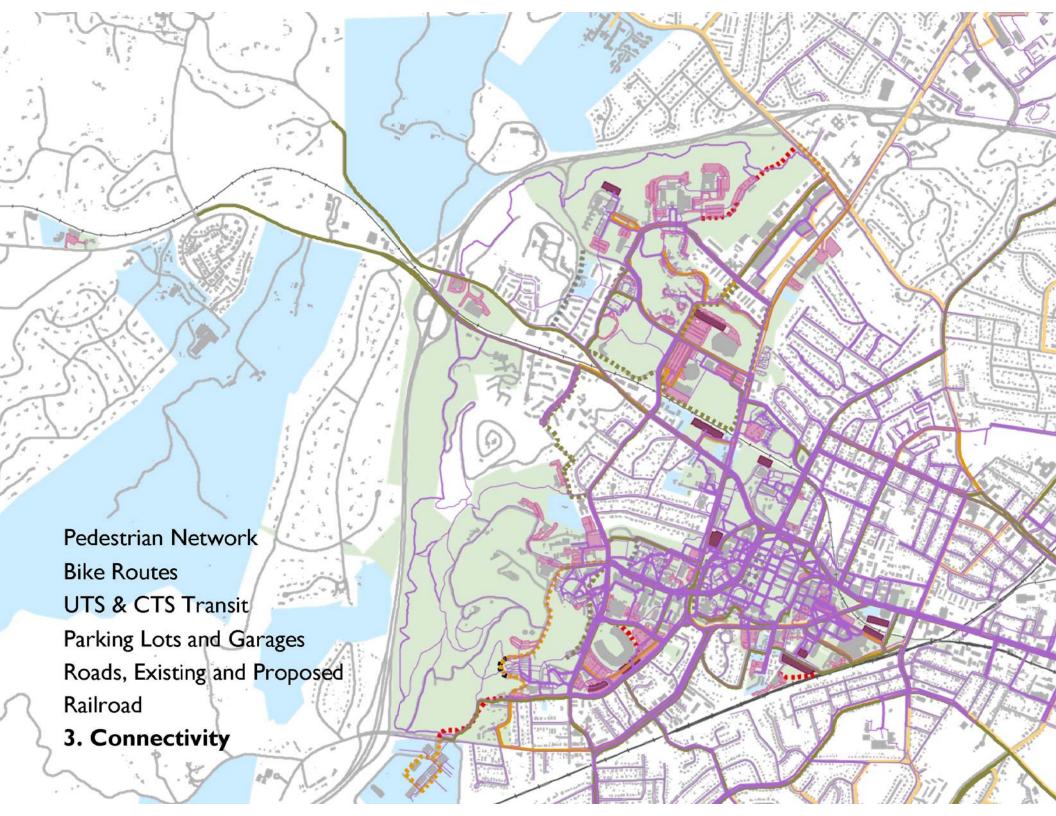
- **Environmental** maintain and advocate for the protection of our natural environs, including air and water quality
- Context plan for opportunities to connect appropriately with the developed community and surrounding open space
- Connectivity increase linkage throughout campus fabric
- **Multi-disciplinary** enhance mixed use developments to foster interaction and collaboration
- Preservation continue to enhance our cultural building and landscape resources
- Sustainability protect opportunities for future generations and minimize energy use

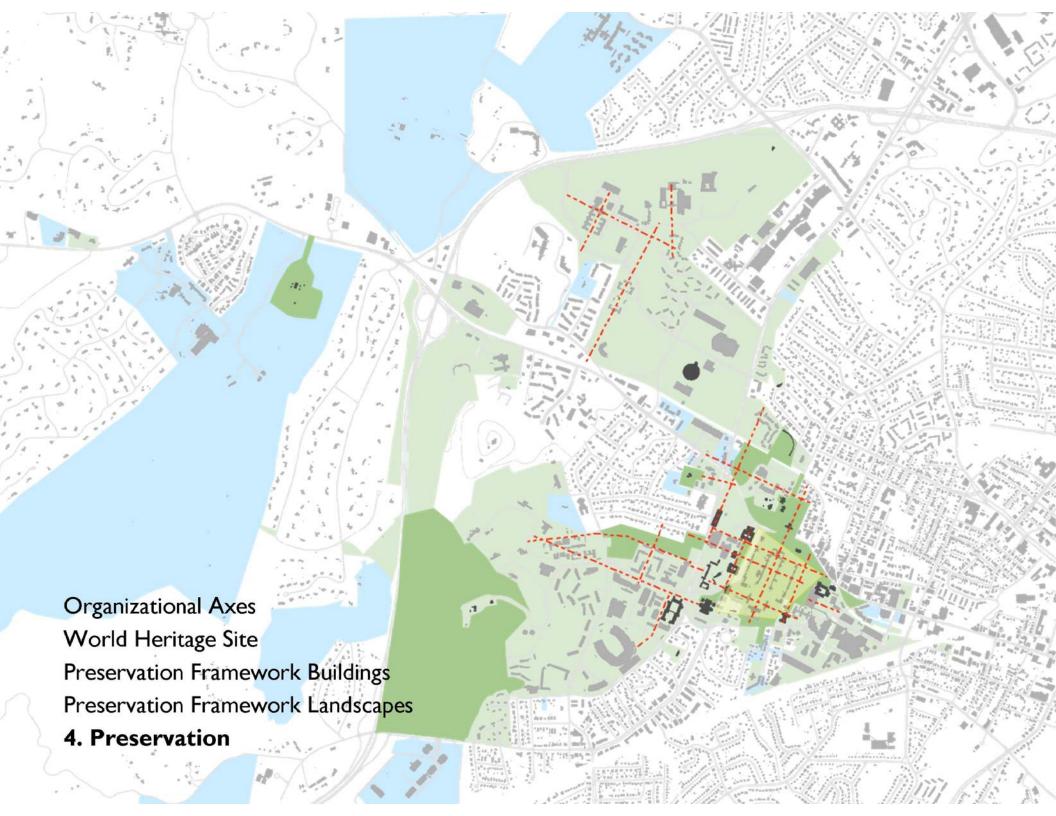


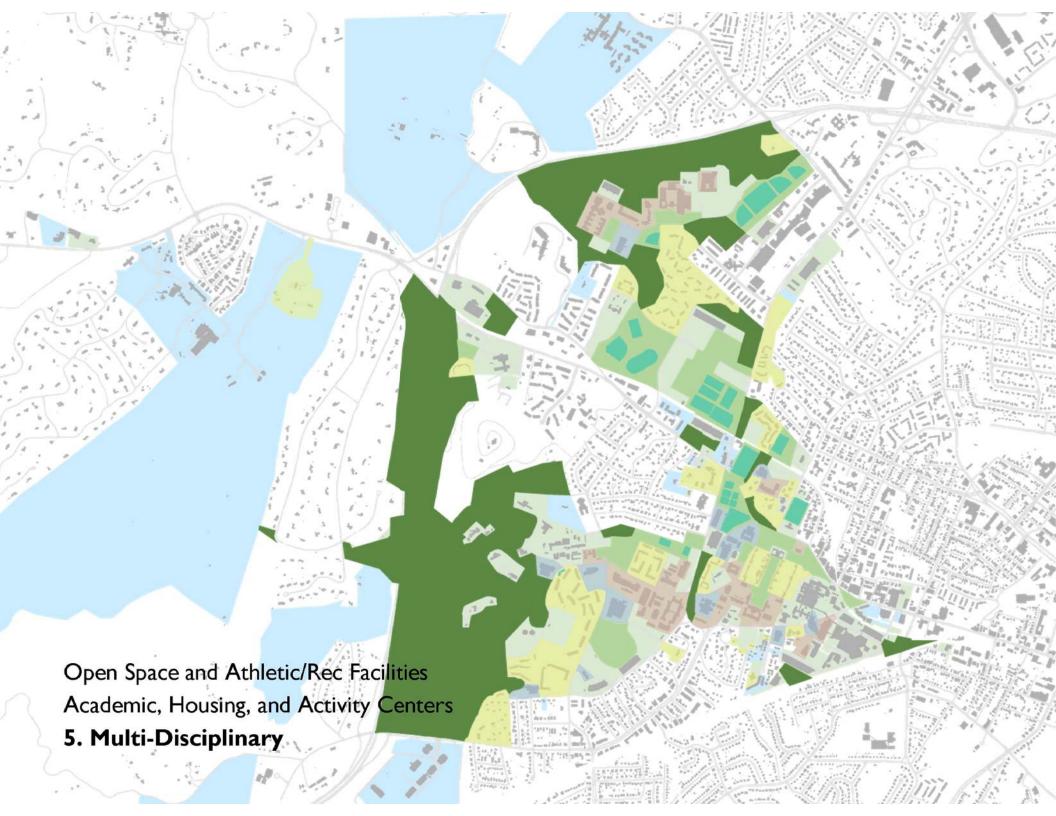
Grounds Plan Objectives



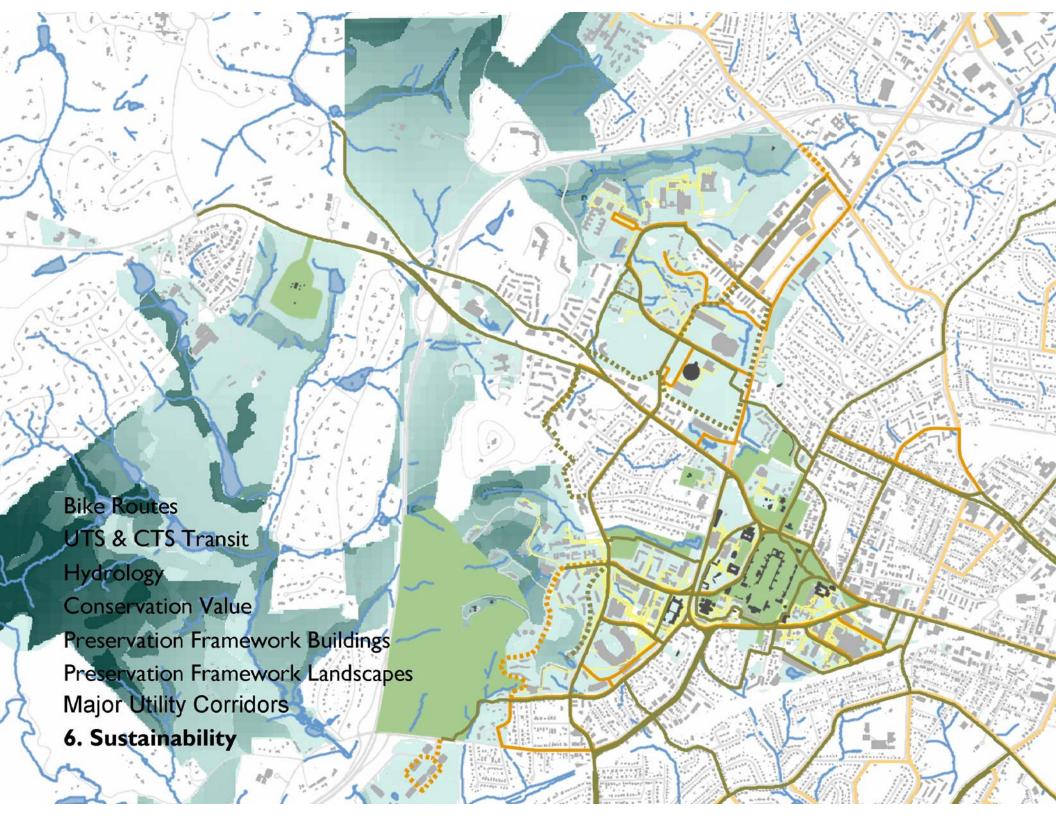












- Develop two program alternatives for the Grounds Plan based on UVA's planned growth (Steady State - 1,500 by 2015) and on additional growth that would occur with increased research capacity (Research-Centric)
- Develop the carrying capacity of the existing Grounds (1,135 acres) based on the opportunities and constraints established in the analyses
- Analyze the two program alternatives against the carrying capacity to establish surplus or deficit that may occur in both 2015 and 2025 – our two future planning horizons

A - Steady-State Scenario

Undergraduate Students	7	11,943	13,401	14,501	15,771
Graduate Students		6,106	0.357	6,787	7,251
Total Faculty		1,987	2,410	2,714	2,921
Total Staff		4,544	5,813	6,238	6,701
Total Students, Faculty, Staff		24,580	27,981	30,210	32,641
Housing ¹					
SINGLE STOT HSG (Beds)		1995	2005	2015	2025
First-Years		2,793	3,076	3,367	3,662
Other Undergrad (Upperclass)		3,120	3,319	3,600	3,915
Graduate Single		315	160	170	182
Total Single Stdt Housing		6,228	6,555	7,128	7,765
FAMILY HOUSING (Units)				- 13	
Student Family		323	323	345	372
Faculty		116	27	138	145
Total Family Housing	- 2	439	450	481	518
Housing Capacity	Needed	Supply ²	Deficit/Su	rplus	
Single Student	1,206	3463	2.2	10	
Student Family	49	618		60	
Faculty	69	36		22)	

Academic Space ⁴	111.45			
ACADEMY (ABF)	1995	2905	2015	2021
Academic Space				
Teaching	131,005	146,048	312,308	338,781
Research	234,202	304,516	443,272	484,505
Office	343,710	405,567	647,879	704,831
Other	199,544	235,000	327,305	354,794
Sub-Total Academic Space	907,651	1,144,847	1,730,865	1,882,972
Student Services	100,850	98,647	106,136	114,938
University Library	562,909	403,191	433,801	489,777
Pooled/Centralized Classrooms	169,526	148,189	291,090	250,190
Business Operations	1,763,722	1,692,700	2,285,511	2,483,505
Institutional Support Space	437,211	518,344	604,511	549.382
Indiger Recreation	134,984	219,006	235,633	255,174
Indear Athletics	210,869	300,263	300,263	300,263
Sub-Total Support Space	7,069,221	3,481,692	4,090,740	4,408,292
TOTAL ACADEMY (ASF)	4,077,752	4,725,187	5,927,749	4,406,203
Darden School of Business	81,759	217,253	217,253	248,987
School of Law	40,920	203,778	203,778	209,778
School of Medicine	561,038	191,783	1,138,366	1,213,914
TOTAL GRAD-ONLY SCHLS (ASF)	683,717	1,008,423	1,559,417	1,666,678
TOTAL GROUNDS (ASF)	4,795,786	6,067,927	7,521,483	8,107,198
Academic Capacity ⁶	Needed	Supply ⁴ Defici	USurples [®]	
Academic	2.585.178	3,494,929	79.750	
Graduate-Only Schools	661 162	634.601	83.330	

B - Research-Centric Scenario

Population				
	1985	2005	2015	2425
Undergraduate Students	11,943	13,401	14,252	15,100
Graduate Students	0,100	6.387	8.007	9,657
Total Faculty	1,987	2,410	2.963	1,370
Total Staff	4,544	6,613	0.062	7,802
Total Students, Faculty, Staff	24,160	27,981	:01,874	35,93
Housing ¹				
SINGLE STUDENTS (Beds)	1995	2085	2015	2025

Housing ¹				
SINGLE STUDENTS (Beds)	1995	2005	2015	2025
Filist-Years	2,763	3,078	3,310	2625 3,607 3,815
Other Undergrad (Uppension)	9,120	2,319	3.000	
Oraduate Single -	215	160	202	243 7,565
Total Single Stdt Housing	6,228	G,558	7,111	7,505
FAMILY HOUSING (UHIS)				
Student Fansity	323	323	388	403
Faculty	11.0	77	146	168
Total Family Housing		400	536	168 622
Housing Capacity	Meeded Sup			
Single Student	1,010	3483 2.4	(5)	

Faculty	01	26	(65)	
Academic Space ⁴				
ACADEMY (ASF)	1995	2095	2015	202
Academic Space		v 1000		19 10 200
Teaching	131,095	140,048	212,308	345.02
Pessarch	294,002	304.516	441.372	490,726
Office	343,710	405,567	647,879	738.529
Other	190,044	216 090	327.305	358,936
Sub-Yots/ Academic Space	907,651	1,544,847	1,720,865	1,913,213
Student Services	100,480	18,647	11.034	123,616
University Literary	362,000	403,101	484,229	605,24
Fooled/Centralized Classrooms	159,626	140,150	241,908	369,079
Business Operations	1,765,722	1,892,700	2,294,057	2,455,910
Institutional Support Space	437,211	518.344	606,667	710,510
Indoor Recreation	134,164	219,006	246,726	274,430
Indoor Africaics	210,000	300,263	300,283	300,26
Jub-Total Support Space	1,099,221	2,491,693	4,192,801	4,512,44
TOTAL ACADEMY (ASF)	4,077,752	4,725,167	5,985,850	6,552,27
Darden School of Business	81,759	217,253	217,253	304,711
School of Law	40,920	203.778	201.776	203,779
School of Medicine	581,098	887,502	1.138,300	1,343,100
TOTAL GRAD-ONLY SCHLS (4.SF)	683,717	r, 308,423	1,659,417	1,851,68
TOTAL GROUNDS (ASP)	4,790,786	6.067.927	7.679.584	8.438.27

Capacity Analysis

Total	27,981	30,210	32,649
Staff	5,813	6,238	6,701
Faculty	2,410	2,714	2,927
Graduate	6,357	6,757	7,250
Undergraduate	13,401	14,501	15,771
Population	2005	2015	2025

Capacity Analysis indicates there will be surplus land availability for both academic and housing facilities

A - Steady-State Scenario

Population				
	1991	290	5 2015	
Undergraduate Students	11,943			
Graduate Students	6,106			
Total Faculty	1,987		2,714	
Total Staff	4,544	5,81	6,238	
Total Students, Faculty, Staff	24,581	27,98	30,210	
Housing ¹				
SINGLE STOT HSG (Beds)	1991	200	5 2015	
First Years	2,793	3.07		
Other Undergrad (Upperclass)	3,120	3,319		
Graduate Single	315	160		
Total Single Stdt Housing	6,228	6,555		
FAMILY HOUSING (Units)				
Student Family	323	323	345	
Faculty	110	77	136	
Total Family Housing	439	400		
Housing Capacity	Needed	Supply ²	Deficit/Surplus	
Sincle Student	1,205	3463	2.258	
Single Student Student Family	1,200	616	560	
Faculty	69	36	(33)	
Academic Space ⁴				
ACADEMY (ASF)	1595	200	5 2015	
Academic Space	1991	200	2015	
Teaching	131,095	148,048	312,308	- 0
Research	234,202	304,516		
Research Office	234,202 343,710	455,587		7
Office	198,544	238,696		
Sub-Total Academic Sciene	907.651	1,144,847		1.8
Sub- Filter Acedemic Spierre	907,601	1, 144,847	1,730,860	1,8
Student Services	100,890	90,647	106,136	- 1
University Library -	352,909	403,191		4
Pooled/Centralized Classrooms	169,826	148,189		2
Business Operations	1,763,722	1,892,700		2,4
Institutional Support Space	437,211	518,344		
Indoor Recreation	134,884	219,006		2
Indoor Athletics	210,869	300,263		
Sub-Total Support Space	2,069,221	3,481,692	4,090,748	4,4

ıd

Steady State
Office of the Architect for the University

Population	2005	2015	2025
Undergraduate	13,401	14,252	15,102
Graduate	6,357	8,007	9,657
Faculty	2,410	2,953	3,370
Staff	5,813	6,662	7,802
Total	27,981	31,874	35,931

Capacity Analysis indicates there will be surplus land availability for housing facilities and a slight deficit for academic facilities

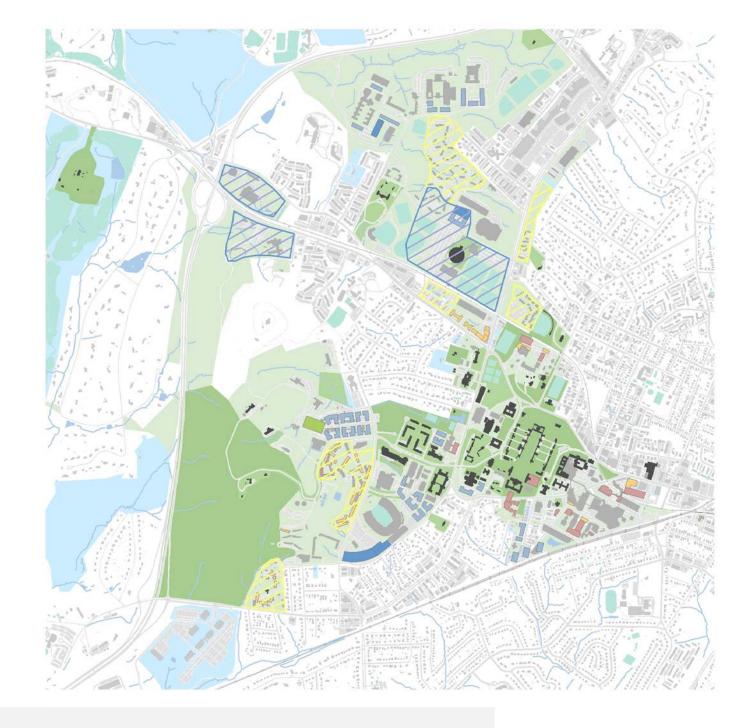
B - Research-Centric Scenario

opulation							
		1965		2005		2015	2026
Indergraduate Students		11,943		15,401		14,252	15,102
raduate Students		0,100		6.307		9.007	9,657
etal Faculty		1,967		2,410		2,953	3.370
etal Staff		4,544		5,813		6.662	7,802
etal Students, Faculty, Staff		24,580		27,981		31,874	35,931
fousing ¹							
INGLE STUDENTS (Rock)		1995		2005		2015	2925
Inst-Years		2,795		3,576		5,310	3.507
Piter Undergrad (Upperstass)		3,120		3.319		3,608	3.615
roduste Single		315		180		202	. 243
etal Single Stdt Housing		5,228		6,585		7,111	7,565
AMILY HOUSING (Units)		21015		563.0		12.014	
tarient l'amily		323		323		388	413
anuly		110		77		140	118
etal Family Housing	-	459		400		538	022
lousing Capacity	Needed		Supply ²	Defic	it/Surplus		
Ingle Student	1,010		3463		2.453		
fudent Family	130		010		400		
anulty	91		36		(55)		
Academic Space ⁴							
CADEMY (ASF)		1965		2005		2015	2925
cadewic Space							
eaching		131.095		140.048	- 1	112.308	345.021
esearch		234.302		304.516	- 24	143.372	400.726
The state of the s				1000000		De not	

Academic Space ⁴				
ACADEMY (ASF)	1965	2005	3015	2925
Academic Space				
Teaching	131,093	145,048	312,306	345.021
Research	234,303	304,516	443,372	490,726
Drice	343,710	455,567	647,879	718,529
Other	193,044	235,695	327,305	355,830
Sub-Tital Arademic Space	907,651	1,144,047	1,730,868	9,913,212
Student Services	100,880	38,647	111,134	123,618
University Library	352,909	403.101	454,228	505,244
Pooled/Centralized Classrooms	169,828	340,109	241,908	269,076
Business Operations	1,763,722	1,892,700	2,294,067	2,455,910
Institutional Support Space	437,211	518,344	606,667	710,510
Indoor Recreation	134,994	219,006	248,728	274,430
Indoor Athletica	219,869	300.283	990,283	300,243
Dub-Fotal Support Space	3,069,121	2,481,692	4,143,801	4,075,444
TOTAL ACADEMY (ASF)	4,077,752	4,725,107	5,985,850	0.552,272
Darden School of Business	81,750	217,263	217,253	304,718
School of Law	40,920	203,778	293,778	203,778
School of Medicine	.561,008	887,302	1,138,396	1,343,165
TOTAL GRAD-ONLY SCHLS (ASF)	692,717	1,306,423	1,589,417	3,861,621
TOTAL GROUNDS (ASF)	4,795,785	6,067,927	7,579,584	8,438,270
Academic Capacity ⁶	Needed	Supply ⁸ Def	icit/Surplus ⁹	
Academic	2.410.900	3.454.025	854.008	
Graduate-Only Schools	835.762	834.501	(201.201)	

In both program scenarios, we are able to achieve UVA's planned growth for 2015 and 2025 within the existing Grounds development area, yielding multiple benefits:

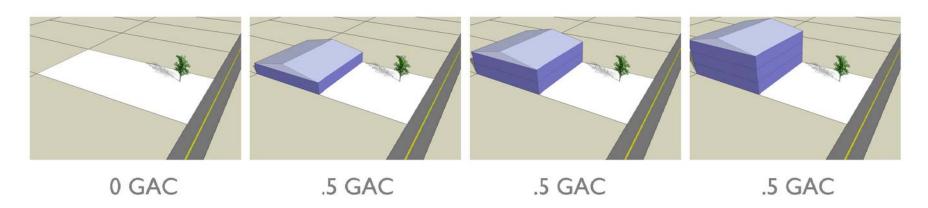
- Reinforce objectives of the Grounds Plan by fostering connectivity and multi-disciplinary collaboration within the University community
- Respect our context by retaining growth within existing University development
- Future growth occurs in areas with existing utilities, infrastructure, and transportation services
- Compact growth with existing services provides substantial economic and resource savings
- Growth is compact and primarily achieved through infill and redevelopment
- Land conservation is achievable in zones designated with the highest quality natural resources



Preferred Direction Diagram

Ground Area Coverage (GAC)

Ratio of building footprint to the size of the parcel

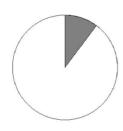


Floor Area Ratio (FAR)

Ratio of total interior floor area (GSF) to the size of the parcel







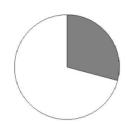
Site Area 49,200,000 Sq. Feet

Footprint 5,120,000 Sq. Feet

5,120,000

49,200,000

.I GAC



Floor Area 14,802,000 GSF

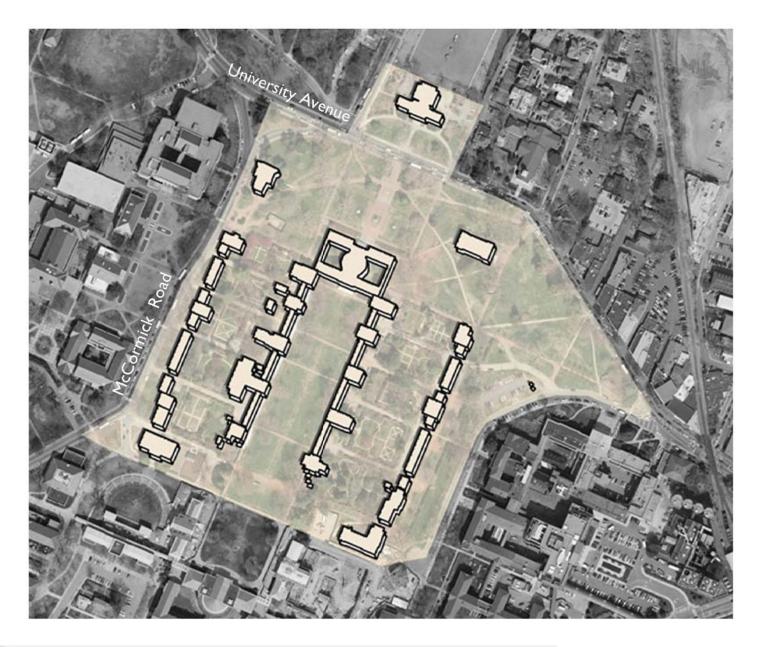
14,335,000

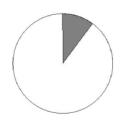
÷

49,200,000

.29 FAR

GAC & FAR - Overall Grounds





Site Area 1,384,000 Sq. Feet

Footprint 143,000 Sq. Feet

143,000

1,384,000

.I GAC



Floor Area 250,000 GSF

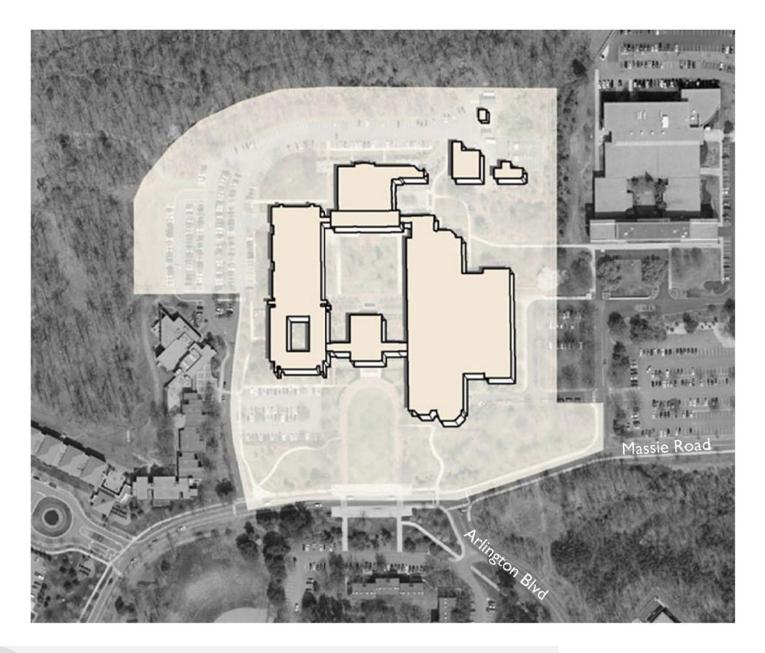
250,000

÷

<u>1,384,000</u>

.18 FAR

Density Study – Lawn





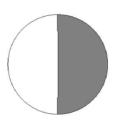
Site Area 798,000 Sq. Feet

Footprint 162,000 Sq. Feet

162,000

798,000

.2 GAC



Floor Area 400,000 GSF

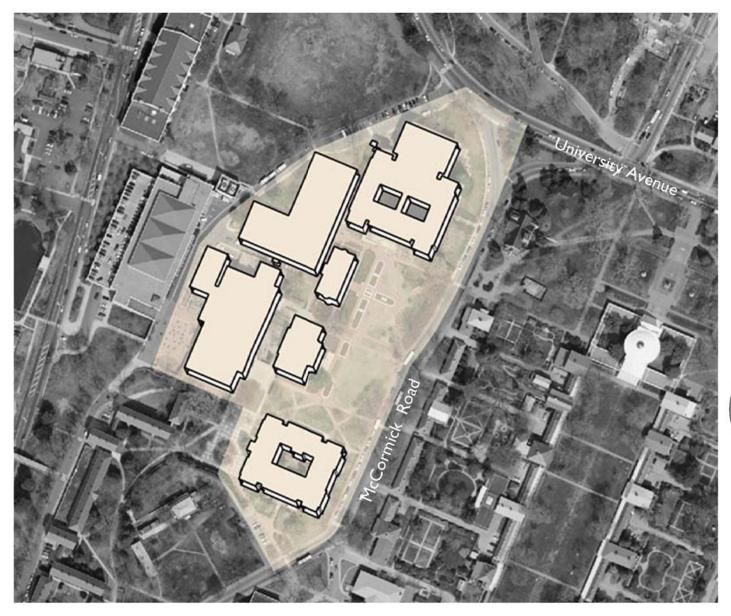
400,000

÷

798,000

.5 FAR

Density Study – Law School





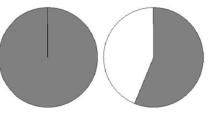
Site Area 482,000 Sq. Feet

Footprint 164,000 Sq. Feet

164,000

482,000

.34 GAC



Floor Area 754,000 GSF

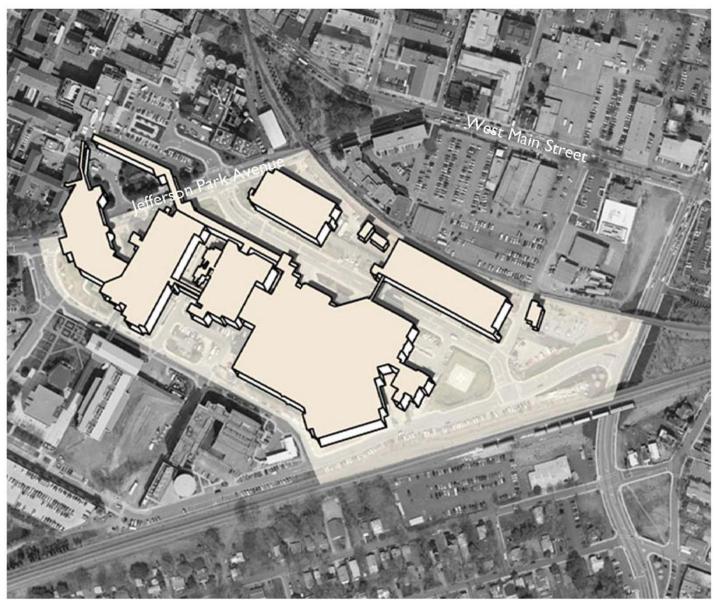
754,000

÷

482,000

I.6 FAR

Density Study – Library Quad





Site Area 975,000 Sq. Feet

Footprint 410,000 Sq. Feet

410,000

975,000

.42 GAC



Floor Area 2,086,000 GSF

2,086,000

F 00

975,000

2.14 FAR

Density Study - Hospital

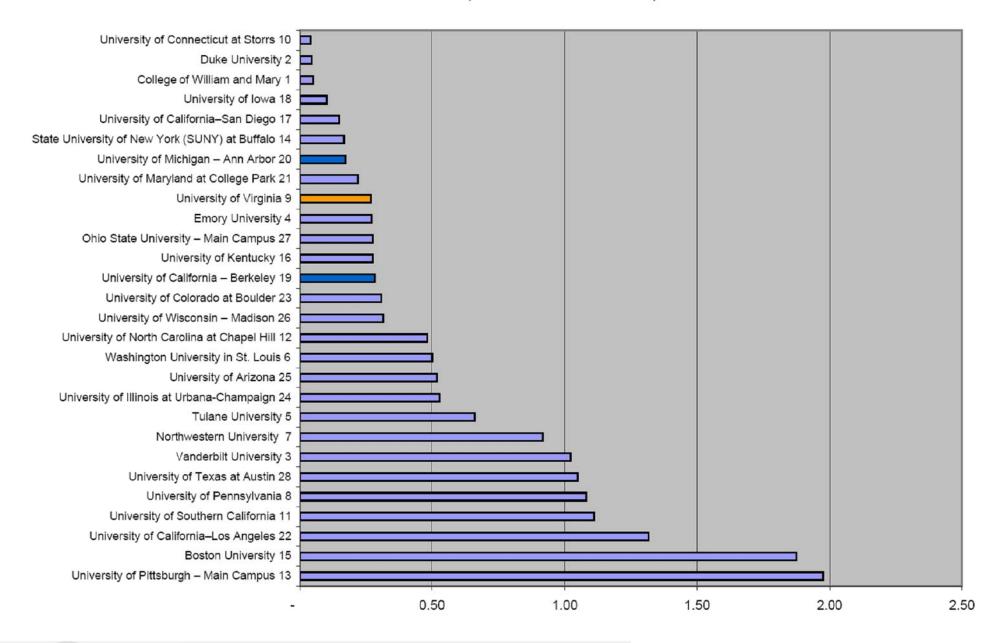


Ground Area Coverage (GAC)

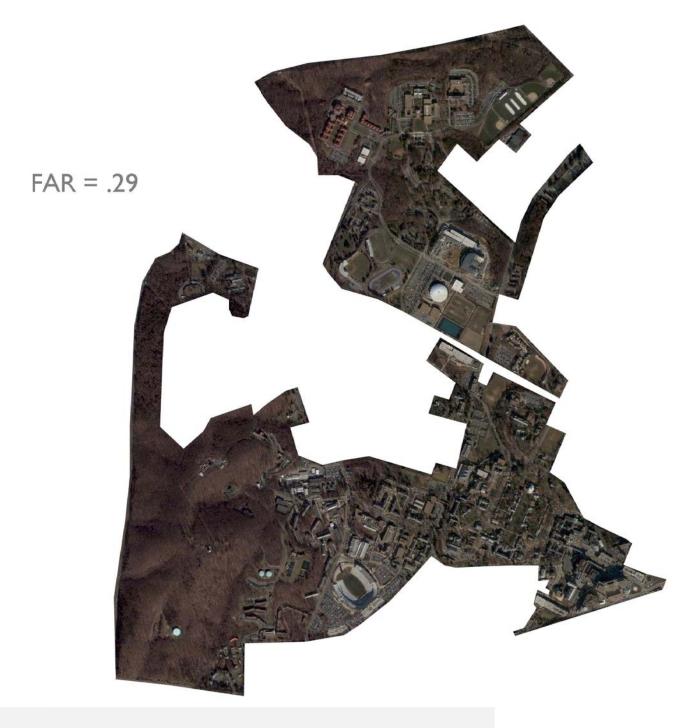


Floor Area Ratio (FAR)

Floor Area Ratio (GSF/Total Number of Acres)



Benchmarking: FAR by Campus



Comparisons – Virginia





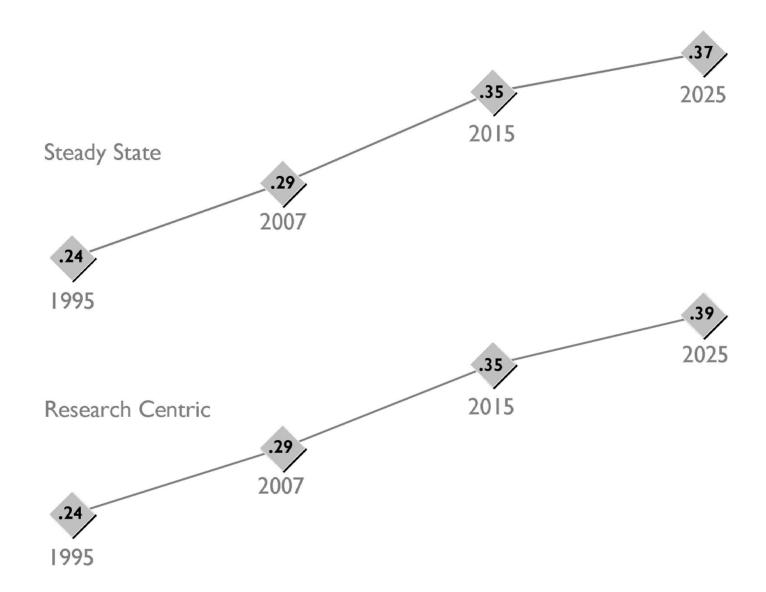
Comparisons - Berkeley

FAR = .17





Comparisons - Michigan





Preferred Redevelopment Zones