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ABOUT

WDCEP

The Washington DC Economic Partnership (WDCEP) is a non-profit, public-private organization whose core purpose is to actively position, promote, and support economic development and business opportunities in Washington, DC.

Our mission is to promote DC's economic and business opportunities and support business retention and attraction activities. Through historical knowledge of the city's business and economic climate; accurate analytics, data, and research; and community partners and access, WDCEP is the central organization in Washington, DC that connects public and private sectors, neighborhoods, and communities to local, national, and international audiences. WDCEP's purpose and success

aligns with its partners in the city: to facilitate dynamic relationships with technology visionaries, artists, real estate entrepreneurs, non-profits, and global



enterprise leaders based on independent thinking and objective insights. We stay one step ahead of the vibrant and evolving economic landscape by monitoring the pulse of DC's developers, startups, entrepreneurs, and big and small businesses.

Learn more at wdcep.com or engage with us @WDCEP.

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CBRE Group, Inc, a Fortune 500 and S&P 500 company headquartered in Los Angeles, is the world's largest commercial real estate services and investment firm (in terms of 2016 revenue). The Company has more than 75,000 employees (excluding affiliates), and serves real estate investors and occupiers through more than 450 offices (excluding affiliates) worldwide. CBRE offers a broad range of integrated services, including facilities, transaction and project management; property management; investment management; appraisal and valuation; property leasing; strategic consulting; property sales; mortgage and development services.

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THE DC DEVELOPMENT REPORT

The DC Development Report is a summary of the major development and construction projects in the District of Columbia. WDCEP tracks major development/ construction projects throughout the year and performs an annual "development census" in the month of August. This research and outreach receives contributions from more than 100 developers, architects, contractors, and economic development organizations and results in updates to more than 400 projects. While our database of

projects is constantly being updated, for the purposes of this publication all data reflects project status, design, and information as of August 2017.

Although every attempt was made to ensure the quality of the information contained in this document, WDCEP and CBRE makes no warranty or guarantee as to its accuracy, completeness, or usefulness for any given purpose.

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NEIGHBORHOOD DEVELOPMENT

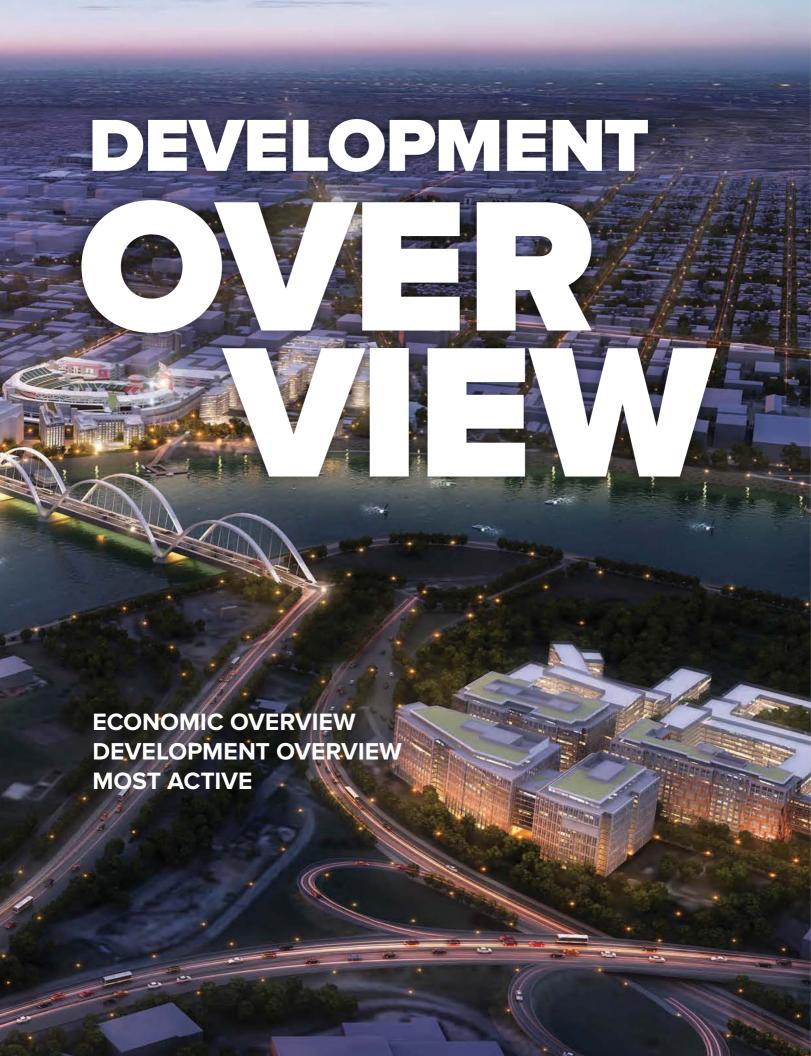
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By: Wei Xie, Regional Research Manager, CBRE

GROSS DOMESTIC PRODUCT GROWTH

The overall economy in the District of Columbia remains in a healthy, expansionary mode, having grown 4.7% over the year between 2015 and 2016—far outpacing the national average rate of 2.8% for the same period. Growth in the private industries

(5.3%) surpassed that of the public sector (3.6%), a trend that has been consistent since 2011. Continued rise in private-industry activity will help further diversify and balance the city's economy, making it less dependent on the government sector.

DC GDP YEAR-OVER-YEAR GROWTH RATE



Source: CBRE, U.S. Bureau of Economic Analysis; October 2017.

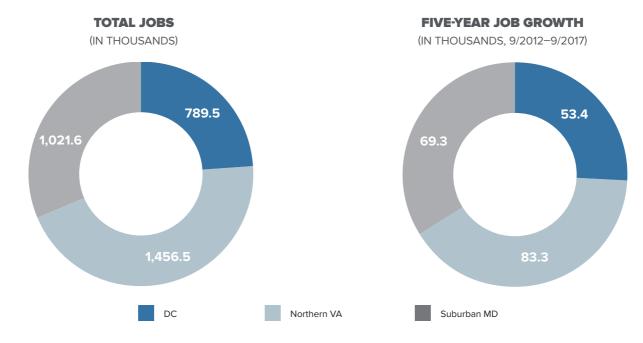




LABOR MARKET OVERVIEW

DC posted modest employment gains in September 2017, adding 5,500 nonfarm jobs over the year, or an increase of 0.7%. Mirroring trends in the GDP stats, employment growth was concentrated in the private sector. Although government employment accounts for 30% of the total labor pool, it did not contribute any growth, instead shedding 100 jobs over the year.

Relative to their respective share of the total labor market within the greater metro region, DC's job growth over the past five years outpaced its suburban counterparts. While DC accounts for 24% of the total employment, it contributed 26% of the new jobs. In comparison, Northern Virginia and Suburban Maryland contributed 74% of the job growth, while making up 76% of the labor pool. DC employment grew 7.3% between September 2012 and September 2017, higher than the 6.6% growth posted by the suburban markets over the same period.



Source: CBRE, U.S. Bureau of Labor Statistics; September 2017.

Unemployment rate in DC ended September at 6.5%. While this was significantly down from the historical high of 10.5% recorded in 2011, it compares unfavorably to the same time last year (5.9%) and a recent low of 5.8% in March 2017.

The labor force among DC residents continues to expand and totaled 401,800 in September 2017—a 24% growth from the 2007 level. Labor force participation rate was at 69.7%, higher than the national average of 63.1%.



LABOR MARKET TRENDS BY SECTOR

Federal Government

The federal government remains the largest employer in DC, totaling 197,400 jobs as of September 2017. However, this sector has contributed to virtually no employment gains since 2007, having instead lost 15,800 jobs since its peak level in 2011.

Professional and Business Services

With the largest private-sector labor pool, the professional and business services sector ended September at 167,200 jobs—a gain of 2,100 over the year. The sector has posted employment gains every year post-recession, totaling 21,800 jobs.

Education Services

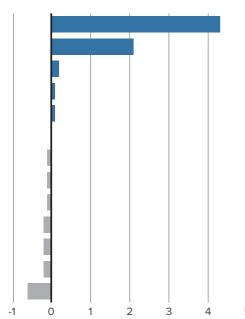
The education sector is a major contributor of employment growth in the city, having added 2,100 jobs between September 2016 and September 2017. Employers in the education field have consistently expanded in DC, with an aggregate growth of 64% since 2007.

Leisure and Hospitality

Reflective of the burgeoning restaurant scene in the city, the leisure and hospitality sector has added 4,300 jobs over the year, of which 3,600 were accounted for by the food services and drinking places subsector. Strong growth was seen in full-services restaurants (3,100 new jobs, or 11% over the year) as well as limited-service restaurants and other eating places (1,400 new jobs, or 9% over the year).

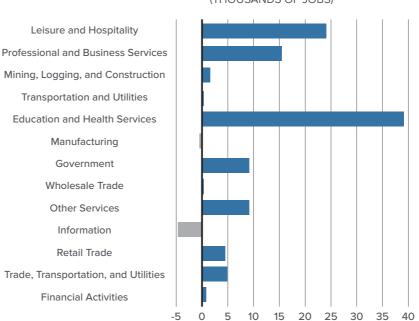
DC EMPLOYMENT GROWTH 2016-2017*

(THOUSANDS OF JOBS)



DC EMPLOYMENT GROWTH 2007–2017*

(THOUSANDS OF JOBS)



 $Source: CBRE, U.S.\ Bureau\ of\ Labor\ Statistics;\ October\ 2017\ (*based\ on\ September-to-September\ changes).$



OFFICE EMPLOYMENT GROWTH VS. SPACE DEMAND

Between the two recent recessions—a period of both healthy economic growth and office real estate performance in the DC metro region—the market added on average 30,400 office jobs and absorbed 5.7 million sq. ft. of office space per year, a rate of 189 sq. ft. of demand per new job. Between 2009 and 2014, the compound effect of the recession and sequestration led to softening market conditions.

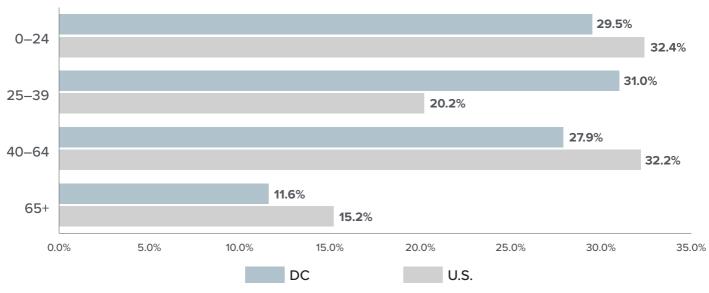
The region entered a period of steady albeit slow recovery in 2015, adding 22,200 office jobs annually. However, employment growth is no longer translating into office space demand in the traditional sense, with the new rate down to 26 sq. ft. per new job. This is due to a combination of factors such as shadow vacancy getting filled up, densification, telework, and hoteling. While employment growth remains critical for the region's overall economic health, its relationship with office space absorption is no longer linear.

POPULATION

DC's overall population posted steady growth of 1.8% between 2015 and 2016. Of note, the number of young professionals—aged 25 to 39—increased at a higher rate of 2.7% over the year, with an aggregate expansion of 39% from 2007 to 2016. The share of this age cohort in total population rose over the same period as well, up from 25.9% to 31.0%. This compares to the national average of 20.2%.

As the labor market tightens nationally and talent acquisition remains a key priority for employers, the influx of educated young professionals serves as a major attraction for firms to come and grow in the city.

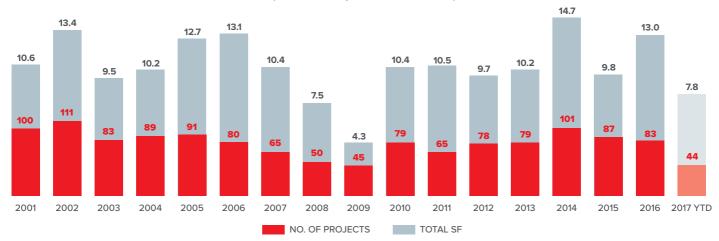
DC POPULATION BY AGE (2016)



Source: CBRE, U.S. Census Bureau; October 2017

DEVELOPMENT OVERVIEW

DC DEVELOPMENT GROUNDBREAKINGS (AUGUST 2017, SQ. FT. IN MILLIONS)¹



SUMMARY OF PROJECTS (AUGUST 2017)

	PROJECTS	SQ. FT.	ESTIMATED VALUE (\$B)
Completed	1,303	171,644,812	\$54.3
2001	78	10,542,838	\$2.2
2002	84	9,311,374	\$2.2
2003	94	11,410,828	\$3.1
2004	93	11,483,445	\$2.7
2005	83	10,153,302	\$2.4
2006	96	12,941,323	\$3.7
2007	72	11,621,355	\$3.6
2008	78	12,178,289	\$4.1
2009	82	12,248,868	\$4.4
2010	51	7,977,660	\$2.5
2011	54	5,489,253	\$2.3
2012	67	7,665,994	\$2.5
2013	79	11,328,101	\$4.7
2014	71	11,533,842	\$4.6
2015	69	6,181,685	\$2.6
2016	97	12,832,149	\$4.5
2017 YTD	55	6,744,506	\$2.3
Under Construction	156	28,967,223	\$11.5
2017 delivery	52	8,812,791	\$3.8
2018 delivery	72	11,858,347	\$4.8
2019 delivery	27	6,636,585	\$2.1
2020 delivery	5	1,659,500	\$0.8
Pipeline	423	123,424,376	\$37.7
Near Term	219	31,740,943	\$11.7
Long Term	204	91,683,433	\$26.0

1. All projects



PROJECTS COMPLETED

	# OF PROJECTS	SQ. FT.		ROOMS
Office	260	55,032,273		
Retail	374	7,852,575		
Residential	625	67,065,597	67,393	
Hospitality	119	17,691,315		16,818
Quality of Life	276	20,702,627		

Total Estimated Value of Projects: \$54.3 billion



PROJECTS UNDER CONSTRUCTION

	# OF PROJECTS	SQ. FT.	UNITS	ROOMS
Office	35	7,857,030		
Retail	69	1,610,331		
Residential	91	13,889,795	15,860	
Hospitality	15	3,116,084		2,639
Quality of Life	24	1,517,772		

Total Estimated Value of Projects: \$11.5 billion



PROJECTS NEAR TERM

	# OF PROJECTS	SQ. FT.	UNITS	ROOMS
Office	42	5,710,374		
Retail	106	1,993,471		
Residential	150	17,844,012	19,537	
Hospitality	24	2,267,970		2,178
Quality of Life	27	2,583,609		

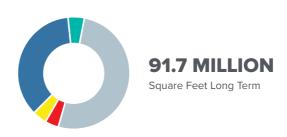
Total Estimated Value of Projects: \$11.7 billion



PROJECTS LONG TERM

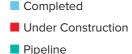
	# OF PROJECTS	SQ. FT.	UNITS	ROOMS
Office	61	29,107,430		
Retail	106	3,900,035		
Residential	126	42,065,198	43,863	
■ Hospitality	27	3,227,194		3,599
Quality of Life	35	3,322,216		

Total Estimated Value of Projects: \$26.0 billion

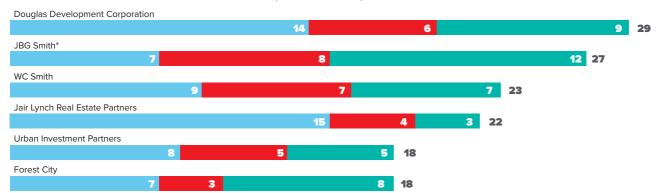




The figures below list the developers, architects and contractors that have been the most active in contributing to DC's development activity since 2012.

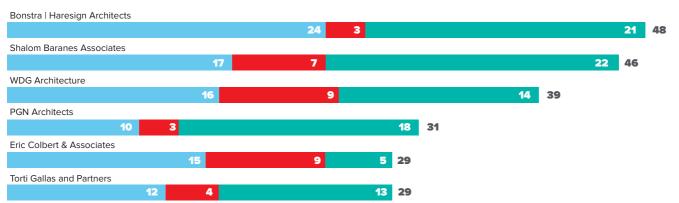


MOST ACTIVE DEVELOPERS SINCE 2012 (# OF PROJECTS)1



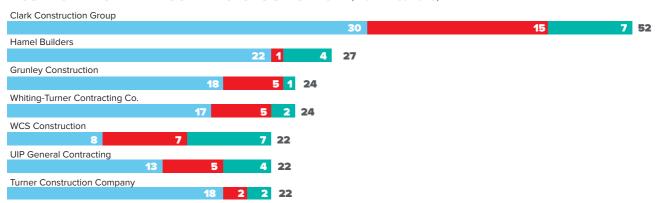
If measured by sq. ft. of projects (all status) the most active developers include JBG (10.2M sq. ft.), Forest City (7.9M sq. ft.), Akridge (7.1M sq. ft.), Douglas Development (7.2M sq. ft.), and MRP Realty (5.6M sq. ft.).

MOST ACTIVE ARCHITECTS SINCE 2012 (# OF PROJECTS)



If measured by sq. ft. of projects (all status) the most active architects include Shalom Baranes Associates (21.3M sq. ft.), WDG Architecture (15.5M sq. ft.), Torti Gallas and Partners (10.8M sq. ft.), SK+I Architectural (9.7M sq. ft.), and Perkins Eastman DC (8.8M sq. ft.).

MOST ACTIVE GENERAL CONTRACTORS SINCE 2012 (# OF PROJECTS)1



If measured by sq. ft. of projects (all status) the most active contractors include Clark Construction Group (21.1M sq. ft.), Whiting-Turner Construction Co. (6.2M sq. ft.), Balfour Beatty Construction (5.4M sq. ft.), Grunley Construction (5.3M sq. ft.), and WCS Construction (4.7M sq. ft.).

^{1.} Projects completed since January 2012, under construction or in the pipeline as of August 2017 (excludes government agencies and colleges/universities). Only companies with 10 or more projects since 2012 are included in sq. ft. calculations. *Includes projects developed as The JBG Companies.









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The Wharf Parcel 4



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By: Tim Whitebread, Research Analyst, CBRE

The office market in the District of Columbia

is one of the largest and most active in the U.S. Typically considered strictly a "government town," the area continues to diversify its' tenant base and attract occupiers from a wide range of industries—a trend that is expected to intensify in coming years.

OFFICE RBA INVENTORY1

NET ABSORPTION¹

OFFICE VACANCY RATE¹

OVERALL AVG. ASKING RENT1

123.9M

77,218

11.7%

\$54.47

Square Feet (Q3 2017)

Square Feet (Q4 2016-Q3 2017)

DIRECT VACANCY (Q3 2017)

FULL SERVICE (Q3 2017)

However, government agencies and law firms occupy roughly 45% of leased space in the nation's capital, allowing the industries to have a marked effect on market fundamentals.

Ongoing job growth in DC has not lead to large amounts of occupancy gain due to a variety of factors, as DC has posted 77,218 sq. ft. of net absorption over the past twelve months. By and large, real estate costs are businesses' second largest expense (after payroll compensation), causing occupiers to become increasingly conscious of their footprint, and striving to become as efficient as possible. New trends in workplace design, including teleworking and hoteling, have allowed tenants to reduce their space needs and densify requirements. Further, the efficiencies offered by newly constructed and newly renovated office buildings produce increased space utilization for occupiers.

Leasing activity in DC has slowed substantially over the past two years. The 7.1 million sq. ft. of leasing activity during 2016 was 29% lower than the ten-year average of 10.0 million sq. ft., while 2017 is forecast to be 43% below the ten-year average. The primary reason for the slow-down in activity in 2017 is the lack of federal government leasing, which leased only 691,000 sq. ft. during the year—a 69% decrease from the trailing five-year average. Following President Trump's election, the General Services Administration was without a full-time Administrator until Emily Murphy was nominated in September 2017. The agency is currently undergoing a wholescale reorganization, which will further delay pending leasing decisions.



1. CBRE (non-owner-occupied buildings greater than 50,000 sq. ft.)



TOP 30 LARGEST DC OFFICE LEASES SIGNED (Q1 2017-Q3 2017)

TENANT	ADDRESS	SUBMARKET	SQ. FT.	BUSINESS TYPE	CLASS	TYPE	QUARTER
GSA (Department of Education)	550 12th St., SW	Southwest	314,243	Government (Federal)	А	Renewal	Q2
GSA (Citizenship & Immigration Services)	20 Massachusetts Ave., NW	Capitol Hill	260,922	Government (Federal)	Α	Renewal	Q1
DC Government (Department of the Environment & Public Schools)	1200 1 st St., NE	NoMA	199,822	Government (Local)	Α	Renewal	Q1
Akin Gump	2001 K St., NW (North Bldg)	CBD	189,268	Legal	T	Prelease	Q1
DC Government (Department of General Services)	1050 1 st St., NE	NoMA	164,110	Government (Local)	А	New	Q1
DC Government	1015 Half St., SE	Capitol Riverfront	118,720	Government (Local)	А	New	Q3
Urban Institute	500 L'Enfant Plaza, SW	Southwest	115,000	Other (Non-profits)	Α	Prelease	Q1
Amtrak	10 G St., NE	NoMA	106,360	Transportation	Α	Renewal	Q3
Paul Hastings	2050 M St., NW	CBD	97,000	Legal	Т	Prelease	Q1
GSA (Consumer Finance Protection Bureau)	1990 K St., NW	CBD	96,000	Government (Federal)	В	Renewal	Q2
Bates White	2001 K St., NW (North Bldg)	CBD	86,001	Business Services	Т	Prelease	Q3
Goodwin Procter LLP	1900 N St., NW	CBD	80,329	Legal	Т	Prelease	Q3
Facebook	575 7 th St., NW	East End	73,840	Technology	Т	New	Q3
Quinn Emanuel Urquhart & Sullivan LLP	1300 Eye St., NW	East End	71,931	Legal	Α	Sublease	Q1
Washington Gas	1000 Maine Ave., SW	Southwest	70,056	Energy	Α	Prelease	Q2
GSA-Surface Transportation Board	395 E St., SW	Southwest	63,825	Government (Federal)	Α	Renewal/ Contraction	Q3
Bank of America	1800 K St., NW	CBD	61,722	Financial Services	Α	New	Q2
MacFadden & Associates	555 12 th St., NW	East End	57,309	Business Services	Т	Expansion	Q2
Fish & Richardson	901 15 th St., NW	East End	54,623	Legal	Α	Sublease	Q1
GSA (Surface Transportation Board)	250 E St., SW	Southwest	52,720	Government (Federal)	Α	New	Q1
Yelp!	575 7 th St., NW	East End	52,703	Technology	Т	New	Q3
American Association for Justice	777 6 th St., NW	East End	50,803	Other (Non-profits)	Α	Renewal	Q1
National Committee for Quality Assurance	1100 13 th St., NW	East End	48,868	Other (Non-profits)	А	Renewal/ Expansion	Q1
Hollingsworth	1350 Eye St., NW	East End	48,543	Legal	А	Renewal/ Contraction	Q2
Hughes Hubbard & Reed LLP	1775 Eye St., NW	CBD	47,411	Legal	Α	Renewal	Q1
GSA (Department of Homeland Security)	90 K St., NE	NoMA	46,803	Government (Federal)	Α	Renewal	Q3
GSA (FAA)	1250 Maryland Ave., SW	Southwest	45,118	Government (Federal)	Α	Renewal	Q2
Rally Health	3000 K St., NW	Georgetown	43,424	Technology	А	Renewal/ Expansion	Q3
	3000 K 3t., 1111	3				LAPAIISIOII	
Morgan Stanley	1747 Pennsylvania Ave., NW	CBD	40,329	Financial Services	Α	Expansion	Q2

Source: CBRE, Q3 2017.

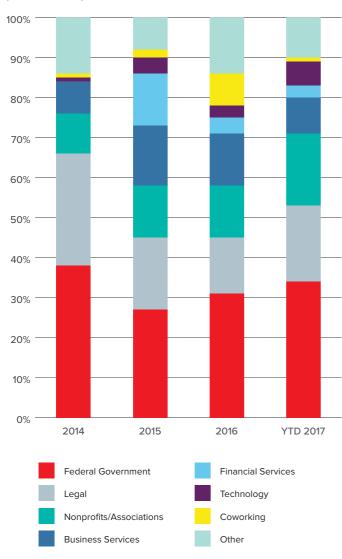
While the federal government and law firms remain in contraction mode, tenants from non-traditional industries such as co-working, nonprofits and trade associations, technology, and consulting have become drivers of demand. Year-to-date, these tenants have contributed 602,000 sq. ft. of occupancy gain, while the federal government and legal sectors have

contracted by 359,000 sq. ft. DC's concentration of highlyskilled workers, combined with a strong amenity base and rebounding economy has helped to attract a wide array of tenants. In addition, the DC government has demonstrated their willingness to offer generous incentive packages to large companies to relocate or remain in DC.



TENANT DIVERSIFICATION: SIGNED LEASES

(2014-Q3 2017)



Source: CBRE, Q3 2017.

TOP NONPROFIT & TRADE ASSOCIATION LEASES

(Q1-Q3 2017)

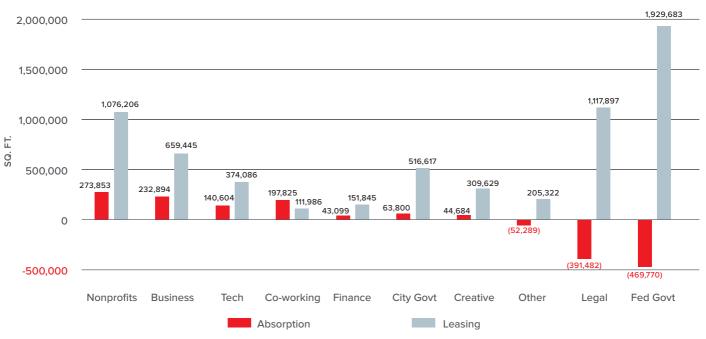
TENANT NAME	SQ. FT.	ADDRESS	SUBMARKET	TYPE
Urban Institute	140,055	500 L'Enfant Plaza, SW	Southwest	Prelease
American Association for Justice	50,803	777 6 th Street, NW	East End	Renewal
National Committee for Quality Assurance	48,868	1100 13 th Street, NW	East End	Renewal
Smithsonian Institution	36,370	600 Maryland Avenue, SW	Southwest	Renewal
American Gas Association	29,912	400-444 North Capitol Street, NW	Capitol Hill	Renewal
Motion Picture Association of America	27,854	1301 K Street, NW	East End	New
National Parks Conservation Association	27,742	777 6 th Street, NW	East End	Renewal
International Monetary Fund	25,344	1875 Eye Street, NW	CBD	New
American Fuel & Petroleum Manufacturers Association	24,852	1800 M Street, NW	CBD	New
Credit Union National Association	22,143	99 M Street, SE	Capitol Riverfront	Prelease

Source: CBRE, Q3 2017.

The industry that has contributed the largest amount of net absorption in over the past twelve months is the nonprofit and trade association sector, with 274,000 sq. ft. of occupancy gain. Tenants from this industry occupy 13% of the total leased square footage in DC, but have accounted for 19% of the total sq. ft. leased over the past year.



NET ABSORPTION BY SECTOR (Q4 2016-Q3 2017)



Source: CBRE, Q3 2017.

Leasing activity in the co-working sector has slowed considerably over the past year, with only 198,000 sq. ft. of leases signed, compared to 380,000 sq. ft. in the twelve months prior. The slow-down in new leasing is likely attributed to these providers decelerating their growth trajectory as they seek to stabilize current locations.

Despite this slow-down, co-working providers have contributed 85,000 sq. ft. of occupancy gain year-to-date. MakeOffices opened a 44,000-sq.-ft. location at The Wharf, and New York City based firm The Yard will open a 32,000-sq.-ft. location at 700 Pennsylvania Avenue, SE in Q4 2017. Additionally, eleven co-working providers are currently in the market looking for space totaling roughly 320,000 sq. ft.

A sector that is growing rapidly in the DC market, as well as markets globally, is the technology sector. Technology firms

have accounted for 374,000 sq. ft. of leasing activity over the past twelve months, surpassing the preceding year's total of 180,000 sq. ft. Much of this leasing activity has been net new demand, with the sector contributing 141,000 sq. ft. of occupancy gain.

In CBRE's 2017 Scoring Tech Talent Report, Washington, DC was ranked #4 in North America in terms of technology labor market conditions, including appeal to technology employers and employees. Technology and innovation are growth industries so it is no surprise that tenants from this sector are driving occupancy gain—this trend is likely to continue as more technology companies are founded, become successful and grow. For example, Mapbox, a DC-based open source mapping platform, announced in Q4 2017 a planned expansion into 17,000 sq. ft. in Downtown DC after a \$164 million funding round.²

^{2.} Washington Business Journal (11/15/17)



	INVENTORY (MSF)	2016-3Q2017 LEASING VOLUME (MSF)	2016-3Q2017 NET ABSORPTION (SF)	VACANCY RATE (%)
Trophy	13.0 (10.5%)	1.8 (17.1%)	1,044,000	12.3
Class A	72.3 (58.3%)	7.1 (69.4%)	882,000	11.9
Class B/C	38.6 (31.2%)	1.4 (13.5%)	(1,672,000)	13.8
TOTAL	123.9	10.3	254,000	12.5

Source: CBRE, Q3 2017.

The DC office market is becoming increasingly segmented, with Trophy and Class A space greatly outperforming Class B and Class C space in net absorption, gross leasing and vacancy metrics.

The Trophy market has recorded 1.04 million sq. ft. of net absorption since 2016, and contributed 17.1% of gross leasing over that timeframe despite making up only 10.5% of the total market inventory. Trophy vacancy (12.3%) is slightly elevated due to recent deliveries not yet being fully stabilized. Vacancy in the Trophy space will continue to swell over the next two years as 4.0 million sq. ft. of space delivers to the market, which is currently 48.9% leased.

Class A assets make up much of the DC market inventory (58.3%) and have dominated leasing activity—totaling 7.1 million sq. ft. since 2016. The Class A vacancy rate of 11.9% is 60 basis points (bps) below the DC average of 12.5%. However, tenants that have signed preleases at new developments will vacate 2.1 million sq. ft. of Class A office space over the next three years, which may

increase the Class A vacancy rate by as much as 290 bps. Further, renovation and repositioning projects will add nearly 1.8 million sq. ft. of vacant Class A space to the market over the next few years pushing the vacancy rate even higher.

The Class B and C inventory currently comprises 38.6 million sq. ft. in DC, with an overall vacancy rate of 13.8%. In 2012, the Class B and C market measured 41.9 million sq. ft. and had an overall vacancy rate of just 9.3%. Meaning that over the past five years, 3.3 million sq. ft. of Class B and Class C product has been removed from the inventory, repositioned, or repurposed altogether. Over the next few years, an additional 2.6 million sq. ft. of Class B and C product may be repositioned or demolished, primarily in the CBD. As these buildings undergo demolition or renovation, over one million sq. ft. of vacant space will be removed from the inventory or reclassified in another asset class, possibly lowering the Class B and C vacancy rate by 190 bps.

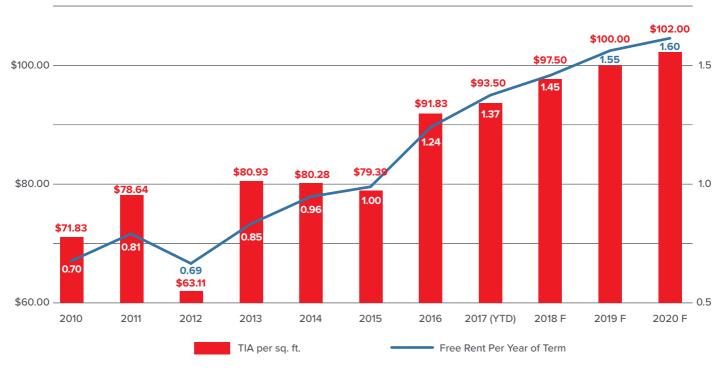
Steady demand for high-quality office space has prompted developers to continue to break ground on new development projects, with over 4.5 million sq. ft. currently under construction and an additional 1.3 million sq. ft. being renovated. Three buildings have delivered year-to-date totaling 539,007 sq. ft.—two full-scale renovations (900 19th Street, NW and 2000 K Street, NW) and one ground up development (800 Maine Avenue, SW). Stanton Development and EastBanc's project at 700 Pennsylvania Avenue, SE will be the final building to deliver in 2017. The 156,503-sq.-ft. office building is currently 20% preleased to New York City based co-working firm, The Yard.

2017 DELIVERIES

ADDRESS	SUBMARKET	OFFICE SQ. FT.	PERCENT PRELEASED AT DELIVERY*	DEVELOPER	DELIVERY TIMING
900 19th Street, NW	CBD	104,365	0.0%	Tishman Speyer	Q1 2017
2000 K Street, NW	CBD	222,118	2.8%	Tishman Speyer	Q3 2017
800 Maine Avenue, SW	Southwest	212,524	70.0%	PN Hoffman & Madison Marquette	Q3 2017
700 Pennsylvania Avenue, SE	Capitol Hill	156,503	20.1%	Stanton Development & EastBanc	Q4 2017

Source: CBRE, Q3 2017. *Building has delivered and signed subsequent leases since delivering to the market.

HISTORIC & PROJECTED TROPHY/CLASS A CONCESSION PACKAGES IN DC



Source: CBRE, Q3 2017 (F = forecast).

As of Q3 2017, rental abatements for all office building classes narrowly exceed one month free per year of lease term and TIA packages average \$87 per sq. ft. (when normalized for a ten-year lease term). The influx of Trophy and Class A office space over the next three years will make the top segment of the market even more competitive, forcing landlords to offer increasingly aggressive concession packages, via rent abatement and tenant improvement allowance (TIA), to attract and retain tenants.



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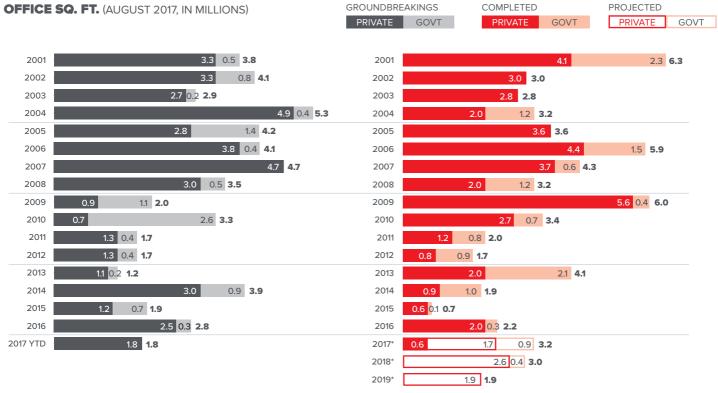
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* Preliminary figures. Nov. 2017



 * projections based on targeted delivey dates of projects under construction as of August 2017

OFFICE DEVELOPMENT (AUGUST 2017)

	550 (5050	
	PROJECTS	OFFICE SQ. FT.
COMPLETED (SINCE 2001)	260	55,032,273
2007	16	4,276,463
2008	18	3,236,432
2009	21	6,033,060
2010	10	3,408,455
2011	8	1,987,719
2012	8	1,658,359
2013	20	4,127,439
2014	11	1,925,674
2015	4	651,500
2016	19	2,211,006
2017 YTD	5	671,153
UNDER CONSTRUCTION	35	7,857,030
2017 DELIVERY	12	2,549,999
2018 DELIVERY	13	3,031,942
2019 DELIVERY	8	1,877,089
2020 DELIVERY	2	398,000
PIPELINE	103	34,817,804
NEAR TERM	42	5,710,374
LONG TERM	61	29,107,430
TOTAL	398	97,707,107

Source: WDCEP Research (August 2017)





	PROJECT	WARD	LOCATION	DEVELOPER(S)	OFFICE SF	EST. VALUE (\$M) ¹	DELIVERY ²
OI	P OFFICE PROJECTS CO	MPLE	TED (Q3 2016–AUGUST 20	017)			
1	600 Massachusetts Avenue	2	600 Massachusetts Ave., NW	Gould Property Company / Oxford Properties Group	381,592	\$206	Q4 16
2	2000 K Street	2	2000 K St., NW	Tishman Speyer	228,576		Q2 17
3	1800 K Street	2	1800 K St., NW	Deutsche Asset & Wealth Management	200,000	\$40	Q4 16
4	Lafayette Building (Phase II)	2	811 Vermont Ave., NW	General Services Administration	189,000	\$20	Q1 17
	Uline Arena	6	1140 3 rd St., NE	Douglas Development Corporation	172,157	\$125	Q4 16
6	900 19 th	2	900 19 th St., NW	Tishman Speyer	110,577	\$14	Q1 17
7	1000 F Street	2	1000 F St., NW	Douglas Development Corporation	94,000	\$32	Q1 17
8	Chancery of Morocco	3	3508 International Dr., NW	Kingdom of Morocco	49,000	\$19	Q1 17
9	Apollo	6	610 H St., NE	Insight Property Group	32,000	\$195	Q4 16
10	DHS Office Building	8	4049 South Capitol St., SW	Department of General Services / City Interests	31,000	\$12	Q4 16
OI	P OFFICE PROJECTS UN	NDER C	CONSTRUCTION				
11	Midtown Center	2	1150 15 th St., NW	Carr Properties	821,000	\$350	Q4 17
12	655 New York Avenue	6	655 New York Ave., NW	Douglas Development Corporation / Brookfield Office Properties	653,474	\$185	Q2 18
13	250 Massachusetts Avenue	2	250 Massachusetts Ave., NW	Property Group Partners	507,764	\$275	Q4 19
14	Four Constitution Square	6	150 M St., NE	StonebridgeCarras, LLC	505,000	\$250	Q2 18
15	Consumer Financial Protection Bureau HQ Modernization	2	1700 G St., NW	General Services Administration	503,000	\$139	Q4 17
16	The Wharf (Phase I)	6	Southwest Waterfront	Hoffman-Madison Waterfront	500,000	\$1,326	Q4 17
17	200 Massachusetts Avenue	2	200 Massachusetts Ave., NW	Property Group Partners	381,746	\$200	Q2 18
18	2050 M Street	2	2050 M St., NW	Tishman Speyer	353,200		Q4 19
19	Harry S. Truman Building Modernization (Ph IC)	2	2201 C St., NW	General Services Administration	290,536	\$97	Q3 18
20	Center Building (DHS HQ)	8	St. Elizabeths West Campus	General Services Administration	284,000	\$155	Q4 17
OI	P OFFICE PROJECTS PIL	PELINE	(NEAR TERM)				
21	The Wharf (Phase II)	6	Southwest Waterfront	Hoffman-Madison Waterfront	547,504	\$1,150	2021
22	Sentinel Square (Phase III)	6	45 L St., NE	Trammell Crow Company	545,000	\$250	2020
23	2100 Pennsylvania Avenue	2	2100 Pennsylvania Ave., NW	Boston Properties / George Washington University	423,562		2022
24	Lacebark Alley	6	50 Patterson St. & 1250 1 st St., NE	JBG Smith / Brandywine Realty Trust	366,161	\$275	2020
25	1700M	2	1700 M St., NW	Vornado Realty Trust	335,000		2020
26	25 M	6	25 M St., SE	Akridge / Brandywine Realty Trust	275,000	\$85	2018
27	44 M Street at Tyber Place	6	44 M St., NE	Skanska USA	243,655	\$200	2019
28	William McChesney Martin Jr. Building	2	2000 C St., NW	Federal Reserve Board	218,000	\$373	2020
	2100 L Street	2	2100 L St., NW	Akridge / Argos Group	182,000	\$147	2020
29	Z TOO L SHEEL	_					

1) may include non-office components & pipeline values may include additional phases (\$ in millions)
2) delivery date may reflect phase I delivery or final phase delivery for pipeline projects





 LOCATION:
 655 New York Avenue, NW

 DEVELOPER(S):
 Douglas Development / Brookfield

 ARCHITECT(S):
 Shalom Baranes Associates

 CONTRACTOR(S):
 James G Davis Construction Corp.

LEED: Platinum EST. VALUE: \$185 million

STATUS: Under Construction

TARGETED DELIVERY: Q2 2018

SPECS: 655 New York Avenue will be the new home for The Advisory Board which will lease about 500,000 sq. ft. with a 2019 move-in. The project will total 653,000 sq. ft. of office space, 80,500 sq. ft. of retail space, and 185 bicycle spaces.



LOCATION: 1150 15th Street, NW
DEVELOPER(S): Carr Properties
ARCHITECT(S): SHOP / WDG

CONTRACTOR(S): Clark Construction Group

LEED: Gold EST. VALUE: \$350 million

STATUS: Under Construction

TARGETED DELIVERY: Q4 2017

SPECS: The former HQ of The Washington Post was razed and the site will be redeveloped into a 13-story, 865,000 sq. ft. office building with approximately 44,000 sq. ft. of retail space. Fannie Mae will consolidate several local offices and 3,500 employees into the new building as a primary HQ location.



LOCATION: Suitland Parkway & Howard Road, SE

DEVELOPER(S): Redbrick LMD

ARCHITECT(S): HOK

Contractor(s): Clark Construction

LEED: Gold EST. VALUE: \$800 million

STATUS: Near-Long Term

TARGETED DELIVERY: 2021

SPECS: Columbian Quarter is a multi-phase project with plans to deliver approximately 1.6 million sq. ft. of office space in three buildings along with 50,700 sq. ft. of retail space. Plans also inleude 692 residential units, 980 parking spaces below grade, and 760 bicycle spaces.



LOCATION: 1701 Rhode Island Avenue, NW

DEVELOPER(S): Akridge

ARCHITECT(S): Hickok Cole Architects
CONTRACTOR(S): Whiting-Turner Contracting

EST. VALUE: \$90 million

STATUS: Under Construction

 $\textbf{TARGETED DELIVERY:} \quad Q4 \ 2018 \\$

SPECS: The former YMCA building will be redeveloped into a 100,000 sq. ft. boutique office building. The project will feature four sides of floor-to-ceiling glass with a range of amenities including a landscaped rooftop terrace and conference facilities.

DEVELOPMENT HIGHLIGHTS



LOCATION: 2100 L Street, NW

DEVELOPER(S): Akridge / Argos Group

ARCHITECT(S): WDG / Jan Hendrix / Martinez & Johnson

CONTRACTOR(S): James G Davis Construction Corp.

LEED: Platinum EST. VALUE: \$147 million

STATUS: Near Term
TARGETED DELIVERY: Q1 2020

SPECS: 2100 L is a 10-story, 190,000 sq. ft. office project that will be built on the former Humane Society Headquarters site. The project also includes about 8,000 sq. ft. of retail space and amenities ranging from an art gallery with private outdoor terraces and an outdoor pocket park. The site is located adjacent to the Thaddeus Stevens School which will undergo a \$20 million renovation, led by Akridge, in a separate phase.



DEVELOPER(S):SkanskaARCHITECT(S):GenslerCONTRACTOR(S):Skanska

LEED: Gold EST. VALUE: \$116 million

STATUS: Under Construction

TARGETED DELIVERY: $Q1\ 2018$

SPECS: 99 M Street will be an 11-story, 234,000 sq. ft. office building with 11,000 sq. ft. of ground floor retail. The building will feature a 4,300 sq. ft. green rooftop terrace and four levels of underground parking with about 150 spaces.



LOCATION: Kenilworth Terrace, NE & Grant Place, NE

DEVELOPER(S): City Interests **ARCHITECT(S):** Gensler

LEED: Gold EST. VALUE: \$225 million

STATUS: Near Term
TARGETED DELIVERY: Q4 2021

SPECS: Parkside Parcel 12 (Block H) is a 10-story office project and component of the 3.1 million Parkside Mixed-Use Development. The building will feature approximately 456,000 sq. ft. of office space and 7,200 sq. ft. of retail. A new pedestrian bridge will provide a direct connection to the Minnesota Avenue Metrorail station



LOCATION: 2112 Pennsylvania Avenue, NW

DEVELOPER(S):SkanskaARCHITECT(S):GenslerCONTRACTOR(S):Skanska

LEED: Gold EST. VALUE: \$125 million

STATUS: Under Construction

 $\textbf{TARGETED DELIVERY:} \quad Q2 \; 2018 \\$

SPECS: Skanska is developing a 250,000 sq. ft. trophy-class office speculative project, with 10,000 sq. ft. of retail space, under a ground lease with The George Washington University. Cleary Gottlieb signed a lease for approximately half of the office space in early 2016.





LOCATION: Southwest Waterfront

DEVELOPER(S): Hoffman-Madison Waterfront

ARCHITECT(S): ODA Architecture / WDG / Rafael Vinoly Architects /

Morris Adjmi Architects / Studio Architecture / Hollwich Kushner / Perkins Eastman DC / SHoP

EST. VALUE: \$1.1 billion
STATUS: Near Term
TARGETED DELIVERY: 2021

SPECS: Phase II of The Wharf will deliver 550,000 sq. ft. of office space in three buildings as well as two below grade parking garages. Plans also call for 120,000 sq. ft. of retail space, a 116-room hotel, 317 residential units (apartments & condos), 200+ slip marina, and four acres of public park/open space.



LOCATION: 125 O Street, SE

DEVELOPER(S): DC Water

ARCHITECT(S): SmithGroupJJR

CONTRACTOR(S): Skanska

ED: Platinum EST. VALUE: \$60 million

STATUS: Under Construction

TARGETED DELIVERY: Q2 2018

SPECS: DC Water is building a new six-story, 151,300 sq. ft. HQ office building for 350 employees on a 2.75-acre site. The new building will wrap around and be attached to the historic O Street Main Pumping Station.



LOCATION: 45 L Street, NE
DEVELOPER(S): Trammell Crow
ARCHITECT(S): SmithGroupJJR

CONTRACTOR(S): Clark Construction Group / Rand Construction

LEED: Silver EST. VALUE: \$250 million

STATUS: Near Term TARGETED DELIVERY: Q1 2020

SPECS: Phase III of Sentinel Square will be an 11-story, 545,000 sq. ft. office building with approximately 11,000 sq. ft. of retail space. The building is 87% preleased to the Federal Communications Commission, who signed a lease in December 2016.



LOCATION: 200 & 250 Massachusetts Avenue, NW

DEVELOPER(S): Property Group Partners

ARCHITECT(S): Kevin Roche John Dinkeloo & Associates / SOM /

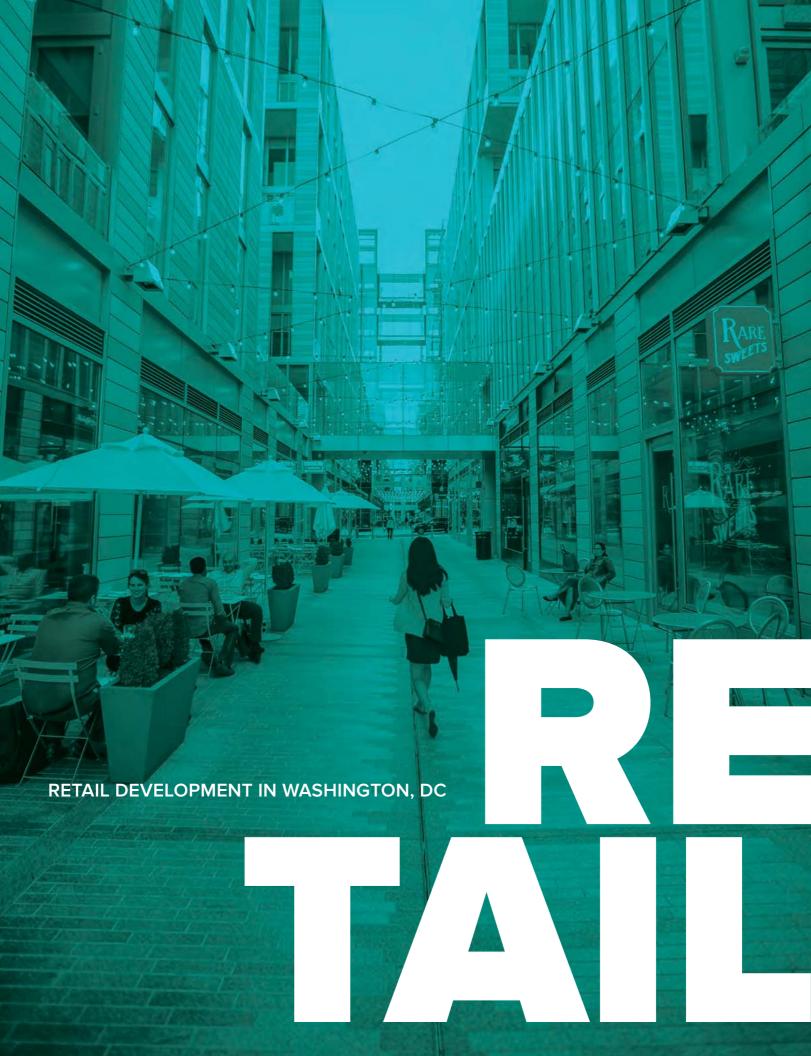
Kohn Pedersen Fox & Associates

CONTRACTOR(S): Balfour Beatty Construction

LEED: Platinum EST. VALUE: \$725 million

STATUS: Under Construction
TARGETED DELIVERY: Q2 2018–Q4 2019

SPECS: Capitol Crossing will be a three-block, 2.2 million sq. ft. mixed-use development that will be built above I-395. The north block will contain two office buildings totaling 954,000 sq. ft. and up to 55,000 sq. ft. of retail space. The entire project will go beyond LEED Platinum with on-site co-generation and stormwater treatment facility.





By: Sandra Illich, Retail Research Analyst, CBRE

Since 2010, the District of Columbia's

population has increased by 13% to more than 681,170—its highest level since the 1970's and it is projected to grow to more than 842,200 by 2030.¹ In 2016, 22 million people visited DC and spent a total of \$7.3 billion.² Growing tourism coupled with a daytime population of over one million make DC a hub for retail and commercial growth.

2016 TAXABLE RETAIL & RESTAURANT SALES³

\$13.9B

RETAIL DELIVERIES IN 20174

0101/

Square Feet

POPULATION GROWTH⁵

12 6%

2010-2016

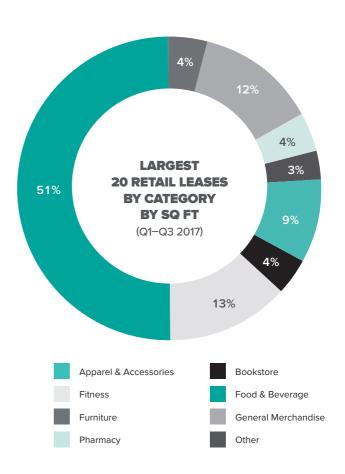
NEW GROCERY STORES⁶

38

Since 2000— 8 more in the pipeline

More than half of DC's residents hold a bachelor's degree or higher (55% compared to 31% of U.S. population) and 21% of the residents are millennials (ages 25-34).⁷ With an average household income of \$117,316⁸ and a significant population (54%) of millennials whom eat out at least once a week⁹, DC is a prime city for growing retail corridors and restaurant hubs.





1. Metropolitan Washington Council of Government. Growth Trends. to 2045, Cooperative Forecasting in Metropolitan Washington, November 2016. 2. DestinationDC (2016 Visitor Statistics) 3. Office of the Chief Financial Officer (FY 2018 Proposed Budget & Financial Plan). In 2016 DC started collecting sales tax for online purchases. Year denotes fiscal year (October–September) 4. WDCEP Research, August 2017 (projected 2017 deliveries based on projects under construction) 5. U.S. Census 6. WDCEP Research, August 2017. 7. U.S. Census Bureau, Population Division July 1, 2016 8. CBRE Fast Report, 2017. 9. Morgan Stanley Research



THE EVOLVING RETAIL LANDSCAPE

U.S. retail sales in Q2 2017 were \$1.26 trillion and e-commerce accounted for 8.9% of sales, a rate that has doubled since the end of 2010. While retail sales have averaged 4.1% yearly growth since the end of the Great Recession online sales have powered this growth averaging 14.6% per year since 2010. Business Insider forecasts that U.S. consumers will spend \$632 billion online by 2020, a 64% increase from 2016. Amazon is clearly the leader in online U.S. sales with some estimates having their online market share of 34% expected to grow to 50% by 2021.

This means that pure-play retailers will struggle to remain relevant and will have to adapt in order to survive. Retailers must develop a good online platform and an impressive physical store, where consumers can interact and be exposed to new and different experiences. Brick and mortar stores will continue to play a crucial role in the consumer's journey. Major retailers will continue opening stores in growing neighborhoods of DC as a way of branding their store and merchandise with the reputation of the area. Physical stores will also be used as delivery points and offer additional insight into their customer data.

In DC, taxable retail sales increased by \$983 million from 2015 to 2016—an 11.7% increase. ¹⁴ This compares to a 3.0% increase from 2014–2015. While there are several contributing factors such as significant growth in population, workforce, and tourists, one noteworthy cause can be attributed to the DC government starting to collect sales tax for online purchases in 2016.

Even with the pressure of e-commerce competition on traditional retail concepts, DC developers still plan on building nearly six million sq. ft. of retail/restaurant space in their mixed-use projects. However, the tenant mix has and will continue to adjust to the new realities of the overall retail market with food & beverage and entertainment uses seeing a significant prioritization in the merchandising plans of developers and landlords. An example of this can be found in The Wharf's tenant mix with nearly two-thirds of retail establishments focused on restaurants & entertainment. Overall, DC's food & beverage industry has seen an influx of new concepts and openings over the past 10 years with a 22% increase in restaurants & bars from 2007–2016, compared to 14% nationally.¹⁵

The increase and quality of eating establishments have lead DC to be named "Restaurant City of the Year" by Bon Appetit in 2016 and 13 restaurants earning stars in the 2018 Michelin Guide. Furthermore, numerous local restaurant chains have received private investments to expand nationally including Cava Grill (\$98.9 million), SweetGreen (\$126.5 million), Matchbox (\$35.3 million), and &Pizza (\$40.5 million).

"In DC, taxable retail sales increased by \$983 million from 2015 to 2016—an 11.7% increase"

10. Retail Indicators Branch, U.S. Census Bureau (Q2 2017, Estimated Quarterly U.S. Retail Sales—Q2 2017 preliminary. Last revised August 17, 2017) 11. Retail Indicators Branch, U.S. Census Bureau (Q2 2017, Estimated Quarterly U.S. Retail Sales. Last revised August 17, 2017) 12. BI Insider. Amazon accounts for 43% of US online retail sales (2/3/17) 13. Wahba, Phil. Amazon Will Make Up 50% of All U.S. E-Commerce by 2021. Fortune (4/10/17). 14. Office of the Chief Financial Officer (FY 2018 Proposed Budget & Financial Plan). 15. BLS (Quarterly Census of Employment and Wages) 16. WDCEP Research & Pitchbook (as of Q3 2017)



TOP DC RETAIL LEASES BY SF (Q1 2017-Q3 2017)

RETAILER	ADDRESS	SQ. FT.	ТҮРЕ	SUBMARKET
Target	3505 Connecticut Ave NW	25,300	General Merchandise	Uptown/Friendship Heights
Ross	1060 Brentwood Rd NE	25,134	Apparel & Accessories	Northeast
Punch Bowl Social	1250 Half St SE	24,078	Food & Beverage	Capitol Riverfront
Planet Fitness	3200 Pennsylvania Ave SE	20,141	Fitness	Southeast
District Winery	385 Water St SE	17,000	Food & Beverage	Capitol Riverfront
Washington Sports Club*	2251 Wisconsin Ave NW	15,637	Fitness	Georgetown
Wawa	1222 Wisconsin Ave NW	13,854	Food & Beverage	Georgetown
Union Square Café	200 Massachusetts Ave NW	13,000	Food & Beverage	East End
Roche Bobois	5301 Wisconsin Ave NW	11,161	Furniture	Uptown/Friendship Heights
Truluck's Seafood, Steak & Crab House	700 K St NW	10,313	Food & Beverage	East End
CVS/Pharmacy	Alabama Ave SE @ Good Hope Rd	10,032	Pharmacy	South East
Amazon Books	3040 M St NW	9,932	Bookstore	Georgetown
Mi Vida	800 Maine Ave SW	9,500	Food & Beverage	Southwest
Wawa	1111 19 th St NW	9,469	Food & Beverage	CBD
Vidalia	1990 M St NW	9,157	Food & Beverage	CBD
Vapiano	1800 M St NW	9,124	Food & Beverage	CBD
Five Below	3810 Fort Lincoln Dr NE	9,000	General Merchandise	Northeast
Founding Farmers*	1900 Pennsylvania Ave NW	8,530	Food & Beverage	CBD
The Showroom LLC	1099 14th St NW	8,306	Venue	East End
Succotash	915 F St NW	7,862	Food & Beverage	East End

Source: CBRE, Q3 2017 (*renewal)





SELECT RETAIL SUBMARKET HIGHLIGHTS

14th & U Street

- 14th Street and U Street, also known as the Greater U Street Historic District, is in the heart of DC. The area has a high concentration of millenials with 46% of its population between the ages of 20–34.¹⁷
- Food & beverage uses occupy 50% of all retail space in this neighborhood.¹⁸
- Some of the major openings in the first three quarters of 2017 included Lululemon (apparel), Madewell (apparel), Franklin Hall (beer hall), TaKorean (restaurant), Bresca (restaurant), Arepa Zone (restaurant), Bindaas (restaurant) and Jinya Ramen Bar.
- Whole Foods plans to open their second store in the neighborhood as part of the 433 multifamily-unit 965 Florida Avenue development in 2020.
- Neighborhood anchor tenants include Trader Joe's, Whole Foods, Room & Board, West Elm, Barcelona Wine Bar, Le Diplomate, Shinola, Soul Cycle, Lululemon, Pearl Dive Oyster Palace, and District Distillery.

Capitol Riverfront 19

- Capitol Riverfront is well on its way to becoming an entertainment destination. The 390,000 sq. ft. of existing retail space is expected to more than double to 900,000 sq. ft. by 2020. In addition, it is home to Nationals Park and the future site of D.C. United's new 19,000-seat stadium (scheduled spring/summer 2018 opening).
- There are an estimated 6,000 residents in Capitol Riverfront and the population is expected to more than double to 14,000 by 2019 based on the development pipeline.

- 17 new businesses opened in the first three quarters of 2017, including District Winery, The Salt Line (restaurant), Orangetheory Fitness, Taylor Gourmet (restaurant), and Steadfast Supply (a retail store that provides a platform for independent brands and designers).
- According to RealPage, Capitol Riverfront and adjacent communities are the 5th busiest neighborhoods for residential construction in the country with 1,483 new market-rate and affordable apartments completed in 2016.²⁰

Downtown DC 21

- Downtown DC is anchored by the Capitol One Arena, DC's main concert and sports venue. The heavily trafficked thoroughfare commands the highest retail rents in the city and is filled with fast casual and full-service restaurants popular with locals and tourists alike.
- The 1.6 million sq. ft. CityCenterDC (Phase I) was constructed in 2014 and quickly became home to luxury brands in DC. The project currently blends retail, dining, and fitness with a new phase delivering in 2019 featuring a 360-room Conrad Hotel. The average CityCenterDC retail sales in 2016 were reported in the \$800–\$1,000 per sq. ft. range with a top performance of \$3,000 per sq. ft.
- In August 2017, Monumental Sports & Entertainment (MSE), negotiated a 10-year naming right deal with Capital One Bank, for \$100 million. This deal is ranked among the most lucrative naming rights deals in the U.S. MSE will invest \$40 million to upgrade Capitol One Arena's (formerly the Verizon Center) facilities and technologies.
- 49% of the retail is food & beverage and as of April 2017, Downtown DC had 164 destination restaurants.
- 8.2 million people attended Downtown DC's culture and entertainment venues in 2016.

17. Esri, 2016 Estimates & Projections 18. Georgetown BID 19. Capitol Riverfront BID 20. www.realpage.com/mpf-research/nations-10-busiest-submarkets-construction-navy-yardcapitol-south-district-columbia/21. DowntownDC BID and Monumental Sports



Georgetown²²

- Georgetown is filled with a mix of small boutiques, national tenants, and over 70 home decor retailers.
- Through fall 2017, 24 retailers & restaurants opened (compared to 22 closings), including Subway, Sweetgreen, Bibibop, Falafel, Acaiberry, Blue Bottle Coffee, Boulangerie Coffee, Kung Fu Tea, and Oki Bowl Ramen.
- 15 restaurants & retailers are scheduled to open in 2018, such as Café Georgetown, Capital One Café, District Pizza, Insomnia Cookies, Say Cheese!, and Wawa.
- Over 26% of visitors come from the top 3% of the country's most affluent households, with discretionary spending power in excess of \$32,000 per year per household.
- 35% of Georgetown sales come from domestic U.S. visitors and 7% come from international visitors with top markets in the U.K., Canada, China, France, Brazil and the UAE.

H Street, NE

- H Street spans just over one-and-a-half miles and has returned to its roots as a thriving, commercial hub with more than 100 retail stores and a collection of international restaurants. The corridor has seen an influx of trendy bars, restaurants, street art, music venues and several new mixed-use projects over the past several years.
- Retail & restaurant openings through the first three quarters of 2017 included Whole Foods, Dio Wine Bar, Sospeso (restaurant), Turning Natural (restaurant,) and Bar Elena (replacing the Boundary Road restaurant).
- The Apollo mixed-use project delivered in late 2016 and as of Q3 2017, its 431 units were 98% occupied.²³ In addition, the project includes a 44,000 sq. ft. Whole Foods (Q1 2017 opening) and a 32,000 sq. ft. WeWork (summer 2017 opening).

NoMa & Union Market

- The two neighborhoods, separated by New York & Florida Avenues, NE, complement each other with NoMa providing a strong daytime population in excess of 54,000 workers and increasing residential base while Union Market is known as a unique restaurant & food destination.
- The NoMa Parks Foundation is spearheading the effort to create six parks and public spaces, including the 2.5-acre NoMa Green (construction expected in 2018).
- Already home to Harris Teeter, a 50,000 sq. ft. flagship REI, and Michelin star-rated Masseria restaurant, the area will welcome Blue Bottle Coffee (Q4 2017), Trader Joe's (2018), and a Latin marketplace concept by Chef Garces (2018).
- DC's first Virgin Hotel (178 rooms) will open in 2019 at 411
 New York Avenue, NE.

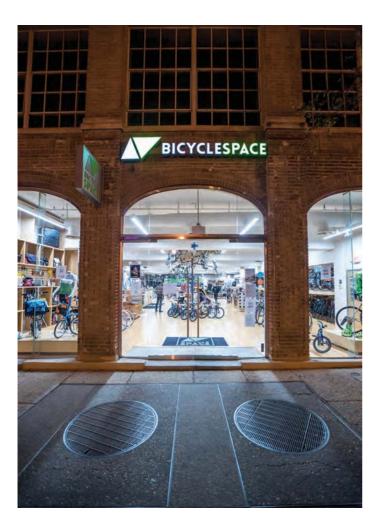
Shaw

- Shaw benefits from its proximity to Downtown DC, a recent influx of young professionals, and its integration with mass transit. There has been over \$3.5 billion in new development since 2001, creating over 5,000 new residential units.
- Even with this massive growth of mixed-use projects the neighborhood has seen a strong trend of smaller and more unique stores and restaurants entering the market. In 2016, Shaw welcomed 40 new businesses and in 2017 it is expected to see at least 36 new businesses open.²⁴
- Major retail & restaurant openings through the first three quarters of 2017, included Union Kitchen Grocery, Supra (DC's first Georgian restaurant), Tiger Fork (Cantonese restaurant), Maxwell Wine Bar, Sugar Shack, and Nocturne (a 50-seat speakeasy, located under the donut shop).

■ GROUNDBREAKING ■ COMPLETED □ PROJECTED **RETAIL DEVELOPMENT** (SQ. FT., AUGUST 2017) 739,277 555,610 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2018* 2019*

Source: WDCEP Research (August 2017)

 $*projections\ based\ on\ targeted\ delivey\ dates\ of\ projects\ under\ construction\ as\ of\ August\ 2017$



RETAIL DEVELOPMENT (AUGUST 2017)

	PROJECTS	RETAIL SQ. FT.
COMPLETED (SINCE 2001)	374	7,852,575
2001	18	191,038
2002	23	324,830
2003	19	347,229
2004	22	369,208
2005	26	711,923
2006	24	294,746
2007	22	378,658
2008	21	867,110
2009	27	265,943
2010	11	330,700
2011	11	312,345
2012	16	314,324
2013	26	1,041,942
2014	27	690,259
2015	25	482,626
2016	37	749,671
2017 YTD	19	180,023
UNDER CONSTRUCTION	69	1,610,331
2017 DELIVERY	16	638,531
2018 DELIVERY	33	398,106
2019 DELIVERY	17	384,194
2020 DELIVERY	3	189,500
PIPELINE	212	5,893,506
NEAR TERM	106	1,993,471
LONG TERM	106	3,900,035
TOTAL	655	15,356,412

Source: WDCEP Research (August 2017)





	PROJECT	WARD	LOCATION	DEVELOPER(S)	RETAIL SF	EST. VALUE (\$M) ¹	DELIVER
F	RETAIL PROJECTS	COMI	PLETED (Q3 2016-AUGUST 201	7)			
	The Shops at Dakota Crossing (Phase III)	5	2438 Market St., NE	Ft. Lincoln New Town Corp. / Trammell Crow / CSG Urban Partners	135,000	\$60	2016-1
	Uline Arena	6	1140 3 rd St., NE	Douglas Development Corporation	73,057	\$125	Q4 1
	Apollo	6	610 H St., NE	Insight Property Group	59,000	\$195	Q4 1
	F1rst	6	1st & N Sts., SE	Grosvenor Americas / McCaffery Interests / Clark Enterprises	25,729	\$150	Q2 1
	One Hill South	6	28 K St., SE	The Related Companies / Ruben Companies	23,700	\$100	Q1 1
	2225 M	2	23rd & M Sts., NW	Eastbanc / Warrenton Group / Dantes Partners	19,700	\$34	Q2 1
	600 Massachusetts Avenue	2	600 Massachusetts Ave., NW	Gould Property Company / Oxford Properties Group	19,418	\$206	Q4 1
	Pavilion P2B	6	385 Water St., SE	Forest City Washington	19,202		Q3 1
	13IU	1	1300 U St., NW	The JBG Companies	15,019	\$66	Q3 1
	Trump International Hotel, The Old Post Office	2	1100 Pennsylvania Ave., NW	Trump Hotel Collection	15,000	\$200	Q3 1
)F	PRETAIL PROJECTS	UNDE	ER CONSTRUCTION				
	The Wharf (Phase I)	6	Southwest Waterfront	Hoffman-Madison Waterfront	190,000	\$1,326	Q4 1
2	Skyland Town Center (Ph I - Block 2)	7	Alabama Ave. & Naylor Rd., SE	Rappaport / WC Smith / Washington East Foundation	117,000	\$175	202
:	The Modern at Fort Totten	5	5180 South Dakota Ave., NE	Morris & Gwendolyn Cafritz Foundation	104,701	\$135	Q3 ′
	Hecht Warehouse District (Pappas Building)	5	1401 Okie St., NE	Douglas Development Corporation	95,335	\$9	Q4 ′
5	655 New York Avenue	6	655 New York Ave., NW	Douglas Development Corporation / Brookfield Office Properties	80,551	\$185	Q2 1
5	Anthem Row	2	800 K St., NW	The Meridian Group	70,000	\$142	Q1 1
,	700 Penn	6	700 Pennsylvania Ave., SE	Stanton Development / Eastbanc / Jarvis Company / Dantes Partners / Clark Enterprises	60,000	\$227	Q4 1
3	West Half	6	1201 Half St., SE	JBG Smith	60,000	\$200	Q1 2
•	1250	6	1250 Half St., SE	Jair Lynch Real Estate Partners / MacFarlane Partners	60,000	\$152	Q3 1
)	250 Massachusetts Avenue	2	250 Massachusetts Ave., NW	Property Group Partners	58,372	\$275	Q4 1
)F	PRETAIL PROJECTS	PIPEL	INE (NEAR TERM)				
	3900 Wisconsin Avenue	3	3900 Wisconsin Ave., NW	Roadside Development / Sekisui House	200,000		202
2	The Wharf (Phase II)	6	Southwest Waterfront	Hoffman-Madison Waterfront	119,559	\$1,150	202
3	McMillan Sand Filtration Site	5	North Capitol St. & Michigan Ave., NW	Vision McMillan Partners (Jair Lynch Real Estate Partners / Trammell Crow Company / EYA)	80,000	\$720	202
1	Bryant Street (Phase I)	5	680 Rhode Island Ave., NE	MRP Realty / B&R Associates LP	72,000		2020/2
5	Riverpoint	6	2100 2 nd St., SW	Akridge / Western Development / Redbrick LMD / Orr Partners / Jefferson Apartment Group	70,441	\$220	202
5	Beckert's Park	6	415 14 th St., SE	Foulger-Pratt / Safeway	70,000	\$125	202
,	Georgia Eastern	4	7828 Georgia Ave., NW	Douglas Development Corporation	56,079		202
	Press House at Union District	6	301 N St., NE	Foulger-Pratt	50,674	\$150	202
3					40.450	****	202
3	965 Florida Avenue	1	965 Florida Ave., NW	MRP Realty / Ellis Development Group / JBG Smith	49,156	\$120	202





THE WHARF (PHASE I)

LOCATION: Southwest Waterfront
DEVELOPER(S): Hoffman-Madison Waterfront

ARCHITECT(S): Perkins Eastman / BBGM / FOX / Handel / Kohn Pedersen

Fox & Assoc. / MTFA / SK+I / SmithGroupJJR / WDG

Clark Construction Group / Donohoe Construction / Balfour Beatty Construction / Cianbro / CBG Building Company

Gold EST. VALUE: \$1.3 billion

STATUS: Under Construction

TARGETED DELIVERY: Q4 2017

CONTRACTOR(S):

LEED:

SPECS: The 2.0 million sq. ft. Phase I consists of 500,000 sq. ft. of office, 190,000 sq. ft. of retail, 870 residential units, 690 hotel rooms, and 140,000 sq. ft. of cultural and entertainment space (including The Anthem—a 6,000 person capacity concert/event hall). Phase I delivered in October 2017.



AGORA

LOCATION: 800 New Jersey Avenue, SE

DEVELOPER(S): WC Smith

ARCHITECT(S): SK+I Architectural Design Group

CONTRACTOR(S): WCS Construction

LEED: Silver EST. VALUE: \$141 million

STATUS: Under Construction

TARGETED DELIVERY: $\ Q4\ 2017$

SPECS: The Agora will consist of 334 loft-style apartment units featuring 10-foot ceilings and a 39,000 sq. ft. Whole Foods with two levels of grocery parking above the store. It is the second phase of the 1.4 million sq. ft. mixed-use The Collective master development.



THE MODERN AT FORT TOTTEN

LOCATION: 5180 South Dakota Avenue, NE

DEVELOPER(S): Morris & Gwendolyn Cafritz Foundation

ARCHITECT(S): Shalom Baranes Associates / EE&K / MV+A Architects

CONTRACTOR(S): Foulger-Pratt

LEED: Silver EST. VALUE: \$135 million

STATUS: Under Construction

TARGETED DELIVERY: Q3 2017

SPECS: Phase I will deliver 105,000 sq. ft. of retail space (on two levels) and 520 apartments, including 141 affordable/senior units, in three buildings. The overall development will include up to 333,550 sq. ft. of retail space and 929 residential units. Phase I was completed in September 2017.



SAINT ELIZABETHS EAST (PHASE I)

LOCATION: Saint Elizabeths East Campus

DEVELOPER(S): Redbrick LMD / Flaherty & Collins / AEDC /

Gragg Cardona Partners / DMPED

ARCHITECT(S): Cunningham + Quill Architects

EST. VALUE: \$300 million STATUS: Near Term TARGETED DELIVERY: Q2 2020

SPECS: The 15.8-acre Phase I will focus on the land closest to the Congress Heights Metrorail Station and include 252 mixed-income rental units (adaptive reuse of historic, former hospital buildings), 60–100 townhomes, and a 171,000 sq. ft. office building with 47,000 sq. ft. of retail space. The redevelopment vision for the 183-acre East Campus calls for up to five million sq. ft. of mixed-use development and the DC government is investing approximately \$100 million in infrastructure improvements on the campus.

DEVELOPMENT HIGHLIGHTS



RIA

LOCATION: Rhode Island Avenue & 14th Street & Montana Avenue, NE

DEVELOPER(S): MidCity

ARCHITECT(S): Perkins Eastman DC

LEED: Silver EST. VALUE: \$450 million

STATUS: Near - Long Term
TARGETED DELIVERY: 2020–2023

SPECS: The 20-acre site that currently encompasses existing housing and a former shopping center will be redeveloped into a mixed-use neighborhood with eight new city blocks, 182,000 sq. ft. of retail space and 1,429 residential units (20% affordable). Phase I (Block 7) will include 331 residential units, including 200 senior units, and 54 bicycle spaces.



BRYANT STREET

LOCATION: 680 Rhode Island Avenue, NE
DEVELOPER(S): MRP Realty / B&R Associates
ARCHITECT(S): SK+I Architectural Design Group

LEED: Gold

STATUS: Near - Long Term
TARGETED DELIVERY: 2020–2031

SPECS: The 13-acre Rhode Island Avenue Shopping Center will be redeveloped into a 1.75 million sq. ft. mixed-use project with 1,450 residential units, and 275,000 sq. ft. of retail/entertainment space, anchored by Alamo Draft House. Phase I will consist of two buildings (closest to the Metrorail tracks) totaling 490 residential units and 72,000 sq. ft. of retail space.



RIVERPOINT

LOCATION: 2100 2nd Street, SW

DEVELOPER(S): Akridge / Western Development Corporation / Redbrick

LMD / Jefferson Apartment Group / Orr Partners

ARCHITECT(S): Antunovich Associates

LEED: Silver EST. VALUE: \$220 million

STATUS: Near Term
TARGETED DELIVERY: Q2 2020

SPECS: The former U.S. Coast Guard office building will be redeveloped into 485 residential units and up to 70,400 sq. ft. of retail space.



SHOPS AT PENN HILL

LOCATION: 3200 Pennsylvania Avenue, SE

DEVELOPER(S): Jair Lynch Real Estate Partners

LEED: Certified
STATUS: Near Term
TARGETED DELIVERY: Q4 2018 (Phase I)

SPECS: The existing Penn Branch Shopping Center site will be redeveloped into 85,000 sq. ft. of retail, 38,000 sq. ft. of office, 100–150 units of senior housing, and 350 parking spaces. The existing center will be renovated (expected summer 2018 completion) and a new mixed-use building will be constructed on the existing rear parking lot (expected 2020 delivery). The project received \$2.1 million from DC's Neighborhood Prosperity Fund.





APOLLO

LOCATION: 610 H Street, NE DEVELOPER(S): Insight Property Group ARCHITECT(S): SK+I Architectural Group CONTRACTOR(S): John Moriarty & Associates

EST. VALUE: \$195 million

Completed STATUS: TARGETED DELIVERY: Q4 2016

SPECS: The Apollo is a 431-unit apartment building with 59,000 sq. ft. of retail space anchored by a 47,000 sq. ft. Whole Foods, and 165 bicycle spaces. Other tenants include WeWork, Wyndown, the Daily Rider, and Solid State Books.



EAST RIVER PARK

LOCATION: Minnesota Avenue & Benning Road, NE

DEVELOPER(S): Cedar Realty Trust STATUS: Long Term

SPECS: Plans for the redevelopment of the East River Park Shopping Center call for about 280 residential units, 120,000 sq. ft. of retail space (anchored by a grocery store), 33,000 sq. ft. of office space, and 622 parking spaces.



1240 4th Street, NE LOCATION:

EDENS / LCOR / San Oh & Company DEVELOPER(S): ARCHITECT(S): SK+I Architectural Design Group James G. Davis Construction Corporation CONTRACTOR(S): LEED: Certified EST. VALUE: \$55 million

STATUS: **Under Construction**

TARGETED DELIVERY: Q4 2017

SPECS: As part of the Union Market District, the Edison is a six-story, 188-unit apartment building with approximately 27,000 sq. ft. of ground floor retail anchored by a Trader Joe's (2018 opening). The building offers its own fiber optic Wi-Fi network with commercial-grade routers in each unit.



415 14th Street, SE LOCATION: Foulger-Pratt / Safeway DEVELOPER(S):

BKV Group ARCHITECT(S):

Gold EST. VALUE: \$125 million LEED:

STATUS: Near Term TARGETED DELIVERY: Q1 2020

SPECS: An existing Safeway grocery store will be razed and reconstructed to include 329 apartment units anchored by a new 60,000 sq. ft. Safeway and an additional 10,000 sq. ft. of retail space.

DEVELOPMENT HIGHLIGHTS



LOCATION: 385 Water Street, SE

DEVELOPER(S): Forest City ARCHITECT(S): Gensler

CONTRACTOR(S): Monarc Construction / Potomac Construction Services

STATUS: Completed **TARGETED DELIVERY:** Q3 2017

SPECS: Parcel P2B located near Yards Park features a two-story, 19,000 sq. ft. retail pavilion which is home to District Winery-a boutique urban winery, restaurant, and event space. The site includes an outdoor terrace on the upper floor with views of Yards Park and the Anacostia River.



700 PENN

LOCATION: 700 Pennsylvania Avenue, SE

Stanton Development / Eastbanc / The Jarvis Company / DEVELOPER(S):

Clark Enterprises / Dantes Partners

ARCHITECT(S): **Esocoff & Associates Architects**

McCullough Construction / Clark Construction CONTRACTOR(S): LEED: Gold EST. VALUE: \$226 million

STATUS: Under Construction

TARGETED DELIVERY: $Q4\ 2017$

SPECS: The site of the former Hine Junior High School was redeveloped into approximately 156,000 sq. ft. of office space (anchored by co-working provider The Yard), 162 apartments, and 60,000 sq. ft. of retail space (anchored by a 11,000 sq. ft. Trader Joe's). Trader Joe's opened in September 2017 and the 34unit affordable housing building was completed in Q4 2016.



1250

1250 Half Street, SE LOCATION:

Jair Lynch Real Estate Partners / MacFarlane Partners DEVELOPER(S): ARCHITECT(S): R.D. Jones & Associates / Hord Coplan Macht Inc

CONTRACTOR(S): Lend Lease

LEED: Silver EST. VALUE: \$152 million

STATUS: **Under Construction**

TARGETED DELIVERY: Q3 2019

SPECS: 1250 Half Street is a 10-story, mixed-use development located just north of the Washington National's Ballpark and will include 439 apartment units with 60,000 sq. ft. of retail space, anchored by a 24,000 sq. ft. Punch Bowl Social.



300 M

300 M Street, NE LOCATION: The Wilkes Company DEVELOPER(S):

WDG / Hickok Cole Architects ARCHITECT(S):

нітт CONTRACTOR(S):

LEED: Gold EST. VALUE: \$132 million

STATUS: Near Term TARGETED DELIVERY: Q1 2020

SPECS: 300 M is a 12-story, mixed-use project that will include up to 440 apartments and approximately 10,000 sq. ft. of retail space. Plans also call for three levels of below grade parking with about 170 spaces.





SKYLAND TOWN CENTER (PH I - BLOCK 2)

LOCATION: Alabama Avenue & Naylor Road, SE

DEVELOPER(S): Rappaport / WC Smith / Washington East Foundation

ARCHITECT(S): Torti Gallas and Partners

 $\begin{array}{lll} \textbf{CONTRACTOR(S):} & WCS \ Construction \ / \ L.F. \ Jennings \ Inc. \\ \textbf{LEED:} & Silver & \textbf{EST. VALUE:} \$175 \ million \\ \end{array}$

STATUS: Under Construction

TARGETED DELIVERY: Q1 2020

SPECS: The redevelopment of the 18.5-acre Skyland Shopping Center will result in up to 320,000 sq. ft. of retail space, 450–500 residential units and 1,700 parking spaces. Plans for Phase I—Block 2 include 263 apartments above approximately 117,000 gross sq. ft. of retail space (84,000 net rentable sq. ft.), anchored by a CVS. Land development is currently underway.



REUNION SQUARE

LOCATION: Martin Luther King Jr. Avenue & W Street, SE

DEVELOPER(S): Four Points / Curtis Development

STATUS: Near – Long Term

SPECS: The 9.5-acre site is located between U and Chicago Streets along the western side of Martin L. King Jr. Avenue, SE. The 2008 approved PUD and 2011 First Stage PUD calls for approximately 1.54 million sq. ft. mixed-use development in three phases, totaling 892,000 sq. ft. of office space, 450 residential units and 171,400 sq. ft. of retail in eight new buildings. The first phase, an 82,000 sq. ft. office building (2235 Shannon Place), delivered in Q4 2014.



ALEXANDER CRUMMELL SCHOOL

LOCATION: 1900 Gallaudet Street, NE

DEVELOPER(S): StonebridgeCarras LLC / The Jarvis Company

ARCHITECT(S): Hickok Cole Architects

STATUS: Near Term

SPECS: The redevelopment plans for the site call for a community center to be built in the former Alexander Crummell School building (c. 1911) with 320 apartments, 22,000 sq. ft. of retail space and 35,000 sq. ft. of industrial space (occupied by ProFish) to be built on the surrounding site. Plans also include community uses such as an urban garden, daycare, health clinic, and culinary school.



MLK GATEWAY

LOCATION: Martin Luther King Jr. Avenue & Good Hope Road, SE

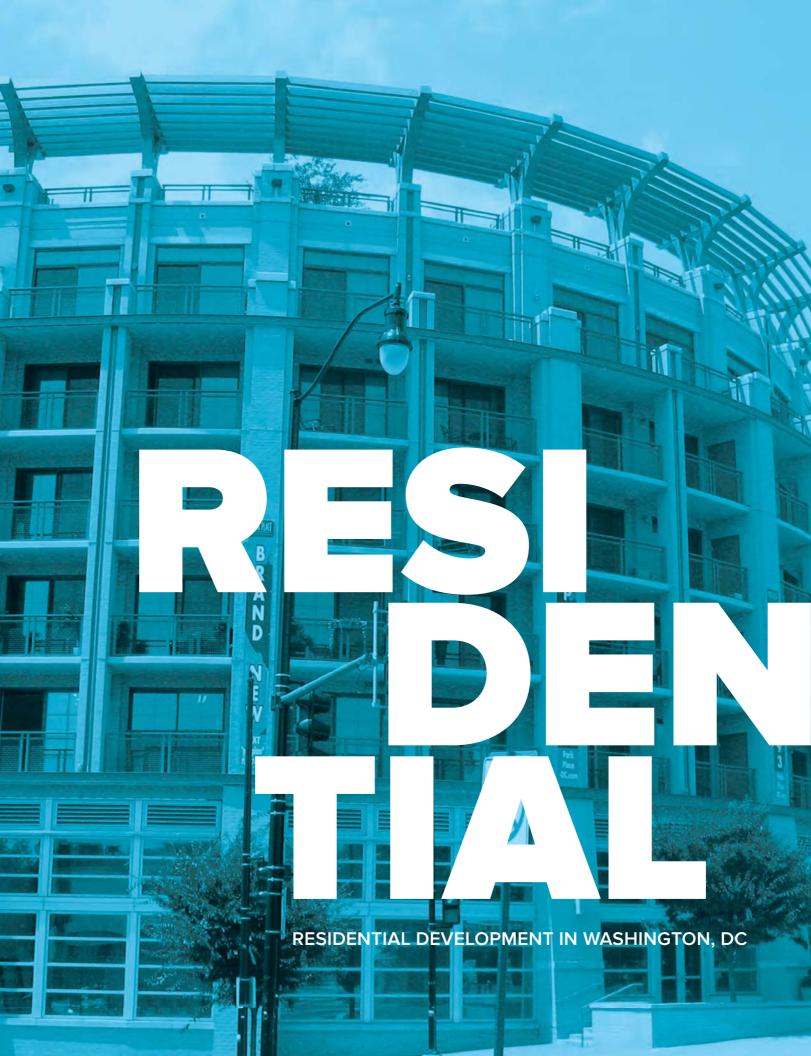
DEVELOPER(S): The Menkiti Group

ARCHITECT(S): Cunningham + Quill Architects

LEED: Silver EST. VALUE: \$25 million

STATUS: Near Term
TARGETED DELIVERY: 2020

SPECS: Plans for MLK Gateway call for 28,500 sq. ft. of office space and approximately 22,000 sq. ft. of retail space. Expected retail tenants include a fresh food market, a coffee concept, a full-service restaurant, and a local bank.



DC's population is trending towards levels that it has not achieved since the 1970s, when the population was nearly 757,000 people.

TOTAL DC HOUSEHOLDS1

MARKET RATE RENTAL UNITS²

MARKET RATE APARTMENT VACANCY²

RESIDENTIAL UNITS UNDER CONSTRUCTION³

300,4

15,860

9.3% increase from 2011-2016

Class A + B

Class A + B

The population within the District of Columbia continued its upward trend in 2016, bringing the total to 681,170 residents. This represents 12.6% growth since 2010.

The wage and salary employment also achieved a net increase of 1.7% in 2017, bringing the five-year total to 7.7%. Despite the growth being slightly down from previous years, and lower than the national average, the slowing pace is a result of the population growth outpacing the rise in work force opportunities. However, wage growth continued in DC as annual per capita income grew to \$76,606 in 2017-9.6% increase since 2014.1



MULTIFAMILY MARKET FUNDAMENTALS

Through Q3 2017, there were 5,171 rental apartment units delivered in DC in 2017. Though DC has encountered a record number of units being delivered, absorption remains strong as demand has outpaced supply with 5,414 units having been absorbed through September 2017-leading the DC region and the highest in DC's history.

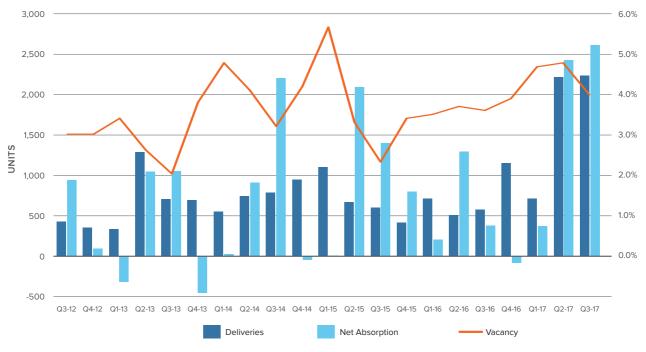
As absorption remains strong, the concessions offered have decreased through the year. Concessions as a percentage of base rents decreased 10 basis points from January 2017 to 1.4%.

While rent growth has not been as strong as previous years, effective rents increased 3.1% from Q1 2017 to Q3 2017, where the average of Class A and Class B rents stand at \$2,393 per unit per month.2

^{1.} Office of the Chief Financial Officer. District of Columbia and Economic Trends: September 2017 2. Delta Associates Q3 2017 Report (inventory includes institutional-grade projects & does not include garden-style product)



DC MARKET RATE RENTAL SUPPLY & DEMAND (CLASS A + B)



Source: CBRE, Axiometrics, Delta Associates, O3 2017

Construction starts have slipped in 2017, as only 2,854 units began construction. Construction starts in 2017 were 31% lower than the total volume from 2016, which had 4,143 units break ground, and 12.6% lower than the five-year average of construction starts from 2013–2017 (3,265 units broke ground on average). The ten-year average of construction starts from 2008–2017 was 2,867 units per year and construction in 2017 in DC was slightly lower than that average.⁴

A main contributor to this decrease in starts is attributed to higher construction costs as lumber prices have increased roughly 20% in the trailing 12-months. Some firms have estimated that costs have risen roughly \$20 per square foot.⁵ In addition, 13 projects representing 3,986 residential units have been stalled due to local activists challenging the development's DC government approvals to the DC Court of Appeals.⁶

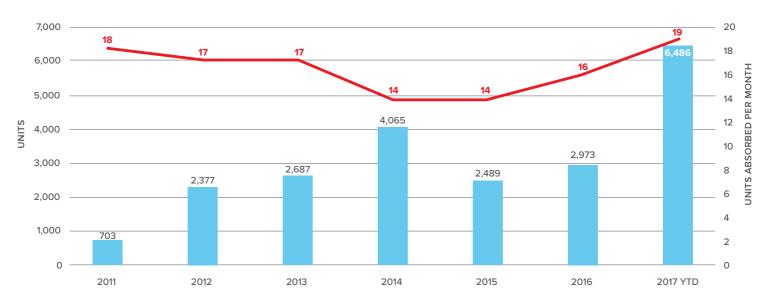
This reduction in construction starts will allow for lease-up properties to stabilize and for existing units to achieve higher rent growth. When comparing 2017 effective rent to 2016, rent growth has posted negative numbers at 1.0% decrease. With a low vacancy rate and high absorption numbers, DC is poised for a rebound in 2018 and beyond with rent projections forecasted to increase at an average annual increase of 3.5% over the next 36 months.

Deliveries are projected to begin a downward trend over the next 36 months. It is estimated that in DC 4,822 units are projected to deliver in 2018, 4,737 units in 2019, and 1,473 units in 2020.⁴ While the market will remain tight in 2018 with many projects in lease-up (the timeframe for a new multifamily property to attract tenants and reach stabilized occupancy), rent growth will begin to increase with minimal concessions offered.

^{4.} Delta Associates Q3 2017 Report 5. Rosenthal, Louis. The Canadian Lumber Tariff's Possible Effect on Apartment Construction. AXIOMetrics, April 28, 2017 (www.axiometrics.com/resources/axio-media/blogs/the-canadian-lumber-tariff-s-possible-effect-on-apartment-construction/) 6. Banister, Jon. BISNOW. When Public Approval Means Naught: How Federal Judges Are Delaying 4,000 Units Of D.C. Housing (7/18/17), www.bisnow.com/washington-dc/news/multifamily/broken-process-why-4000-units-of-dc-housing-are-stuck-in-federal-court-76657-76664.



DC APARTMENT ABSORPTION PACE



Source: Delta Associates, Q3 2017 (Class A and B apartment communities. Absorption pace is the rate that apartment communities absorb unoccupied units per month during lease-up.)

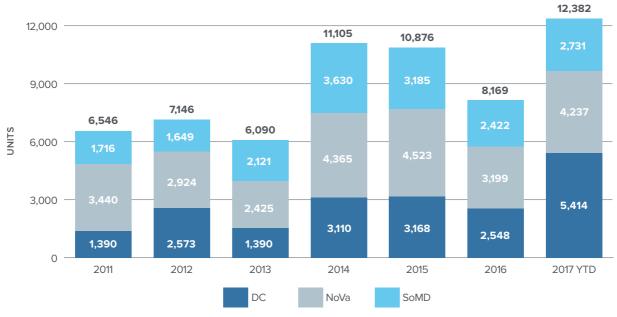
DC METRO AVERAGE VACANCY



Source: Delta Associates 2017 (Class A and B apartment communities)



METRO ABSORPTION



Source: Delta Associates. Class A and B apartment communities. YTD = January–September

DC RENTAL RATES BY NEIGHBORHOOD

MULTIFAMILY RENTAL RATES BY NEIGHBORHOOD

(Q3 2017)

NEIGHBORHOOD	EFFECTIVE RENT	OCCUPANCY %
Anacostia/Northeast DC	\$1,665	96.0%
Brookland/Fort Totten	\$1,923	95.2%
Capitol Hill/SW	\$2,236	95.6%
Downtown/Logan Circle	\$2,506	95.4%
Dupont Circle/Adams Morgan	\$2,132	96.2%
Foggy Bottom	\$2,465	94.4%
Howard U/Mt. Pleasant/Brightwood	\$2,268	95.7%
NW DC-Georgetown	\$2,085	93.9%
Woodley Park-Cleveland Park-Van Ness	\$2,217	95.5%

Source: Axiometrics 3Q 2017 Report

MULTIFAMILY AMENITIES⁷

As new product continues to deliver, the traditional amenities in nearly all new apartments built in DC, such as rooftop pools and a 24-hour fitness center, will no longer be enough to set developers' projects apart from their competitors. As renters' preferences have shifted over the years, developers have become more in tune with the residences' preferences. For example, WC Smith's The Collective will offer a virtual golf simulator, Peloton cycle room, full-size basketball court, outdoor singles tennis court, and hydro massage beds.

Apart from the location, the most sought-after amenity by renters is package management systems. With the exponential growth from ecommerce and grocery delivery services, it will become imperative for apartment communities to implement these refrigerated lockers to protect and preserve the renters' packages when they are not home.

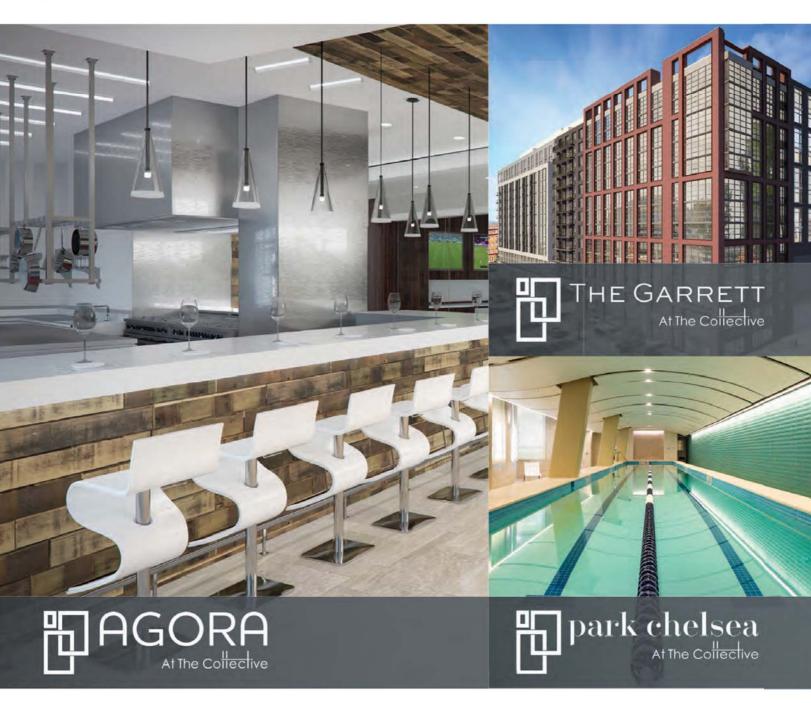
OUTLOOK

As DC's population continues to grow the multifamily market's existing supply is expected to be absorbed at a consistent pace, allowing for robust future rent growth. With construction starts beginning to slow down and vacancy rates below the national average, the future of the DC's multifamily market is positioned to strengthen in the near-term outlook.



The Collective

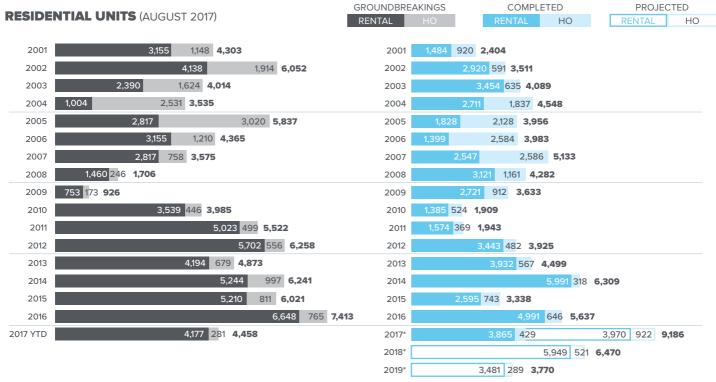
1138 apartments | 53,000 SF of retail | 105,000 SF of amenity space





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 $*projections\ based\ on\ targeted\ delivey\ dates\ of\ projects\ under\ construction\ as\ of\ August\ 2017\ (HO=condo\ /\ single-family)$

RESIDENTIAL DEVELOPMENT (AUGUST 2017)

	PROJECTS	SQ. FT.	UNITS	RENTAL	H.O.	CONDOS
COMPLETED	625	67,065,597	67,393	49,961	17,432	13,485
2001	28	2,571,032	2,404	1,484	920	409
2002	32	3,750,300	3,511	2,920	591	173
2003	47	3,936,855	4,089	3,454	635	546
2004	46	4,572,470	4,548	2,711	1,837	1,640
2005	44	4,170,870	3,956	1,828	2,128	2,061
2006	45	4,340,551	3,983	1,399	2,584	2,335
2007	49	5,825,803	5,133	2,547	2,586	2,083
2008	39	4,229,734	4,282	3,121	1,161	1,092
2009	35	3,589,130	3,633	2,721	912	718
2010	21	2,186,187	1,909	1,385	524	146
2011	22	1,899,277	1,943	1,574	369	269
2012	31	4,010,523	3,925	3,443	482	173
2013	36	3,764,803	4,499	3,932	567	463
2014	35	5,836,063	6,309	5,991	318	139
2015	38	2,963,007	3,338	2,595	743	564
2016	46	5,394,938	5,637	4,991	646	288
2017 YTD	31	4,024,054	4,294	3,865	429	386
UNDER CONSTRUCTION	91	13,889,795	15,860	14,128	1,732	1,426
2017 DELIVERY	35	4,034,058	4,892	3,970	922	808
2018 DELIVERY	39	5,609,198	6,470	5,949	521	447
2019 DELIVERY	15	3,574,539	3,770	3,481	289	171
2020 DELIVERY	2	672,000	728	728		
PIPELINE	276	59,909,210	63,400	30,440	4,344	4,113
NEAR TERM	150	17,844,012	19,537	14,492	2,855	2,469
LONG TERM	126	42,065,198	43,863	15,948	1,489	1,644
TOTAL	992	140,864,602	146,653	94,529	23,508	19,024

Source: WDCEP Research (August 2017)





PROJECT	WARD	LOCATION	DEVELOPER(S)	UNITS	TYPE ¹	EST. VALUE (\$M) ²	DELIVER
PRESIDENTIAL PRO)JECT!	S COMPLETED (3Q 20	16 - AUGUST 2017)				
AVA NoMa	6	55 M St., NE	AvalonBay	438	R	\$145	Q1 1
Apollo	6	610 H St., NE	Insight Property Group	431	R	\$195	Q4
Camden NoMa (Phase II)	6	61 Pierce St., NE	Camden Property Trust	405	R	\$70	Q1 ·
One Hill South	6	28 K St., SE	The Related Companies / Ruben Companies	383	R	\$100	Q1
Eliot on 4 th	6	1001 4 th St., SW	Forest City Washington	365	R	\$100	Q1
F1rst	6	1 st & N Sts., SE	Grosvenor Americas / McCaffery Interests / Clark Enterprises	325	R	\$150	Q2
Insignia on M	6	1111 New Jersey Ave., SE	Donohoe Companies	324	R	\$90	Q1
Edgewood Commons I	5	601 Edgewood St., NE	Community Preservation & Development Corporation	292	R	\$69	Q4
ORE 82	6	82 I St., SE	Greystar Development / RCP Development Company	227	R	\$65	Q4
Varsity on K	2	950 24 th St., NW	Varsity Investment Group	197	R	\$14	Q1
PRESIDENTIAL PRO)JECT:	S UNDER CONSTRUC	CTION				
The Wharf (Phase I)	6	Southwest Waterfront	Hoffman-Madison Waterfront	870	R/O	\$1,326	Q4
The Modern at Fort Totten	5	5180 South Dakota Ave., NE	Morris & Gwendolyn Cafritz Foundation	520	R	\$135	Q3
West Half	6	1201 Half St., SE	JBG Smith	465	R	\$200	Q1
1250	6	1250 Half St., SE	Jair Lynch Real Estate Partners / MacFarlane Partners	439	R	\$152	Q3
1270 4 th Street	5	1270 4 th St., NE	Level 2 Development / EDENS / Trammell Crow Residential	432	R	\$150	Q4
AVEC	6	901 H St., NE	Rappaport / WC Smith / Lustine Realty Co.	419	R	\$200	Q3
The Portals (Phase V)	6	1331 Maryland Ave., SW	Republic Properties Corporation	373	R	\$220	Q3
2 Eye Street (Phase I)	6	2 I St., SE	Crescent Development / RCP Development Company	355	R		Q1
The Belgard	6	33 N St., NE	Wood Partners / MacFarlane Partners	346	R	\$150	Q1
Agora	6	800 New Jersey Ave., SE	WC Smith	334	R	\$141	Q4
P RESIDENTIAL PRO)JECT:	S PIPELINE (NEAR TERM	N)				
3900 Wisconsin Avenue	3	3900 Wisconsin Ave., NW	Roadside Development / Sekisui House	700	R/O		20
McMillan Sand Filtration Site	5	North Capitol St. & Michigan Ave., NW	Vision McMillan Partners (Jair Lynch Real Estate Partners / Trammell Crow Company / EYA)	660	R/O	\$720	20
Armature Works	6	1200 3 rd St., NE	Trammell Crow Company / High Street Residential	635	R/O		20
Bryant Street (Phase I)	5	680 Rhode Island Ave., NE	MRP Realty / B&R Associates LP	490	R		2020/
Riverpoint	6	2100 2 nd St., SW	Akridge / Western Development / Redbrick LMD / Orr Partners / Jefferson Apartment Group	485	R	\$220	20
Storey Park	6	1005 1 st St., NE	Perseus Realty / Four Points / Greencourt Capital	460	R		2019/
Waterfront Station II	6	1000 4 th St., SW	PN Hoffman / Paramount Dev. / ER Bacon Dev. / CityPartners / Affordable Housing Dev. / DMPED	443	R	\$157	20
			T. 1100		_	# 422	
300 M	6	300 M St., NE	The Wilkes Company	440	R	\$132	20
300 M 965 Florida Avenue	6 1	300 M St., NE 965 Florida Ave., NW	Ine Wilkes Company MRP Realty / Ellis Development Group / JBG Smith	433	R	\$132	20

R = rental; O = ownership
 may include non-residential components

³⁾ delivery date may reflect phase I delivery or final phase delivery for pipeline projects





3900 WISCONSIN AVENUE

LOCATION: 3900 Wisconsin Avenue, NW

DEVELOPER(S): Roadside Development / Sekisui House
ARCHITECT(S): Shalom Baranes Associates

STATUS: Near Term TARGETED DELIVERY: Q3 2022

SPECS: The site of the former Fannie Mae headquarters will be redeveloped into 1.1 million sq. ft. of mixed-use development. Plans call for 700 residential units, 200,000 sq. ft. of retail space (anchored by an 80,000 sq. ft. Wegmans grocery store), 68,000 sq. ft. of office/cultural uses, and a 140–150-room hotel. The existing 228,000 sq. ft. building (c. 1958 & 1962) will be incorporated into the

overall development plan.



CAPITOL VISTA

LOCATION: New Jersey Avenue & H Street, NW

DEVELOPER(S): The Menkiti Group / Dantes Partners /

Spectrum Management / Bailey Real Estate Partners

ARCHITECT(S): Grimm + Parker & Associates

CONTRACTOR(s): Hamel Builders
EST. VALUE: \$34 million
STATUS: Near Term
TARGETED DELIVERY: Q4 2020

SPECS: Plans call for an eight-story affordable housing building with 104 apartment units and 3,200 sq. ft. of retail space.



LOCATION: 4620–4626 Wisconsin Avenue, NW
DEVELOPER(S): Urban Investment Partners

ARCHITECT(S): Hickok Cole Architects
CONTRACTOR(S): UIP General Contracting

LEED: Gold EST. VALUE: \$65 million

STATUS: Near Term TARGETED DELIVERY: Q2 2019

SPECS: An existing three-story office building will be converted and expanded into and eight-story residential building with 146 residential units and 11,000 sq. ft. of retail with 3,500 sq. ft. dedicated for a sit-down restaurant. As part of the project the Chesapeake House will be renovated.



DEANWOOD TOWN CENTER

LOCATION: Nannie Helen Burroughs & Division Avenue, NE

DEVELOPER(S): The Warrenton Group
ARCHITECT(S): Torti Gallas Urban
STATUS: Long Term

SPECS: Deanwood Town Center will consist of two buildings totaling 183 residential units and 16,000 sq. ft. of retail space. Most of the units will be deemed affordable with 18 being considered for market rate. The unit mix is anticipated to include 3BR, 4BR and 5BR units.

DEVELOPMENT HIGHLIGHTS



1164 BLADENSBURG ROAD

LOCATION: 1164 Bladensburg Road, NE

DEVELOPER(S): Neighborhood Development Company

ARCHITECT(S): Grimm + Parker & Associates

CONTRACTOR(S): Hamel Builders
EST. VALUE: \$25 million
STATUS: Near Term
TARGETED DELIVERY: O2 2019

SPECS: The site of a former fast food restaurant will be redeveloped into a residential building with 63 affordable units.



THE BOWER

LOCATION: 1300 4th Street, SE

DEVELOPER(S): PN Hoffman

ARCHITECT(S): WDG Architecture / Handel Architects

CONTRACTOR(S): Clark Construction Group

LEED: Gold EST. VALUE: \$70 million

STATUS: Under Construction

TARGETED DELIVERY: Q4 2018

SPECS: The former site of Navy Yard Building 137 will be constructed into an 11-story residential building with 137 condos, 13,000 sq. ft. of retail space, and 112 parking spaces. The project is part of The Yards mixed-use development.



KENILWORTH COURTS REDEVELOPMENT

LOCATION: Kenilworth Avenue, Douglas Street, Anacostia Avenue,

Quarles Street, NE

DEVELOPER(S): The Warrenton Group / DC Housing Authority /

Michaels Development Corporation

ARCHITECT(S): Torti Gallas and Partners

STATUS: Long Term TARGETED DELIVERY: 2021+

SPECS: A 26-building, four-acre public housing complex will be redeveloped into 530 residential units (a mix of apartments and townhouses) and 4,500 sq. ft. of commercial space. The total project will include five four-story buildings, one of which will be dedicated to senior housing.



13IU

LOCATION: 1300 U Street, NW **DEVELOPER(S):** The JBG Companies

ARCHITECT(S): BBGM / David M. Schwarz Architects

CONTRACTOR(S): Balfour Beatty Construction

STATUS: Completed **TARGETED DELIVERY:** Q3 2017

SPECS: A former one-story retail strip shopping center was redeveloped into an eight-story, 130-unit apartment building with 15,000 sq. ft. of retail space. The retail is anchored by a Rite Aid and future restaurant.





ELIOT ON 4TH

LOCATION: 1001 4th Street, SW

DEVELOPER(S): Waterfront Associates / Forest City Washington /

Vornado Realty Trust

ARCHITECT(S): Perkins Eastman DC

CONTRACTOR(S): James G. Davis Construction Corporation

LEED: Gold EST. VALUE: \$100 million

STATUS: Completed TARGETED DELIVERY: Q1 2017

SPECS: Eliot on 4th is an 11-story, 365-unit apartment building with 5,000 sq. ft. of retail space and two levels of underground parking. The project includes 12 rental townhomes that are integrated into the building's first two floors. The project is part of the former Waterside Mall redevelopment.



UNION PLACE (PHASE II)

LOCATION: 200 K Street, NE
DEVELOPER(S): Toll Brothers
ARCHITECT(S): Davis, Carter, Scott

CONTRACTOR(S): Tishman Construction / ADC Builders

EST. VALUE: \$92 million

STATUS: Under Construction

TARGETED DELIVERY: Q3 2018

SPECS: Plans for Phase II of Union Place call for a 14-story residential building with 525 units and 8,500 sq. ft. of retail space. The project is part of the 850,000 sq. ft. Union Place mixed-use development.



DOCK 79

LOCATION: 100 Potomac Avenue, SE

DEVELOPER(S): MRP Realty / FRP Development Corp **ARCHITECT(S):** SK+I Architectural Design Group

CONTRACTOR(S): Paradigm Companies

LEED: Certified EST. VALUE: \$100 million

STATUS: Completed TARGETED DELIVERY: Q3 2016

SPECS: The site of a former concrete plant was developed into a nine-story residential building consisting of 305 rental units, 16,000 sq. ft. of retail, and 286 parking spaces.



3619 GEORGIA AVENUE

LOCATION: 3619 Georgia Avenue, NW
DEVELOPER(S): The Warrenton Group
ARCHITECT(S): Bonstra | Haresign Architects
CONTRACTOR(S): McCullough Construction

EST. VALUE: \$8 million
STATUS: Near Term
TARGETED DELIVERY: Q2 2019

SPECS: The site is located at the corner of Georgia Avenue and Princeton Place, NW and was occupied by an existing one story building and a surface parking lot. The project is a six-story, 27-unit residential building with 3,000 sq. ft. of ground floor retail.

DEVELOPMENT HIGHLIGHTS



LOCATION: 320 Florida Avenue, NE

DEVELOPER(S): Level 2 Development / Clark Enterprises Inc. /

Federal Capital Partners

ARCHITECT(S): Eric Colbert & Associates, PC

CONTRACTOR(S): Clark Construction

LEED: Silver EST. VALUE: \$101 million

STATUS: Under Construction

TARGETED DELIVERY: $Q1\ 2019$

SPECS: A former Burger King site will be redeveloped into 317 residential units, 9,200 sq. ft. of retail space, and 136 parking spaces. Plans also call for the creation of a new park to the west of the building.



BANNEKER RIDGE AT FORT LINCOLN

LOCATION: 3111–3157 Fort Lincoln Drive & 3100–3170 Cityscape Drive, NE

DEVELOPER(S): Fort Lincoln New Town Corporation /

The Concordia Group

CONTRACTOR(S): Ryan Homes
EST. VALUE: \$15 million
STATUS: Completed
TARGETED DELIVERY: Q2 2017

SPECS: Banneker Ridge at Fort Lincoln is a residential development consisting of 42 townhomes (2,800–3,360 sq. ft.), each with a two-car garage, three bedrooms, 2.5 baths, and a loft option. The project is part of Fort Lincoln New Town, a 362-acre mixed-use urban renewal area in northeast DC.



STRAND RESIDENCES

LOCATION: 5119–5127 Nannie Helen Burroughs Avenue, NE

DEVELOPER(S): The Warrenton Group / Washington Metropolitan CDC /

NHP Foundation

ARCHITECT(S): PGN Architects PLLC

LEED: Gold EST. VALUE: \$28 million

STATUS: Near Term
TARGETED DELIVERY: Q2 2020

SPECS: The Strand Residences will be built adjacent to the historic Strand Theatre and will feature approximately 1,400 sq. ft. of retail space on the ground-level, 1,200 sq. ft. of community/business incubator space, and 86 affordable residential units. The historic Strand Theatre will be renovated as part of the project.



3825 GEORGIA AVENUE

LOCATION: 3825–3829 Georgia Avenue, NW

DEVELOPER(S): Donatelli Development / Mosaic Urban Partners

ARCHITECT(S): Bonstra | Haresign Architects
CONTRACTOR(S): McCullough Construction LLC

EST. VALUE: \$6 million
STATUS: Completed
TARGETED DELIVERY: Q2 2017

SPECS: The vacant site at 3825 Georgia Avenue was redeveloped into a five-story, 32-unit residential building featuring projecting window bays and a brick masonry face.





AVEC

LOCATION: 901 H Street, NE

DEVELOPER(S): Rappaport / WC Smith / Lustine Realty Company

ARCHITECT(S): Torti Gallas and Partners
CONTRACTOR(S): WCS Construction

LEED: Silver EST. VALUE: \$200 million

STATUS: Under Construction

TARGETED DELIVERY: Q3 2019

SPECS: AVEC is a two-block redevelopment project consisting of 419 residential units on top of approximately 53,400 gross sq. ft. of retail space and a three-level, 309-space underground parking garage. Amenities include collaborative workspace, dog park, community garden, and rooftop pool.



SOUTH CAPITOL MULTIFAMILY

LOCATION: 4001 South Capitol Street, SW

DEVELOPER(S): City Interests / Michaels Development Corporation

ARCHITECT(S): Hickok Cole Architects

CONTRACTOR(S): Prestige Building Company

EST. VALUE: \$58 million

STATUS: Under Construction

TARGETED DELIVERY: Q4 2018

SPECS: The former South Capitol Street Shopping Center site will be redeveloped into 195 affordable residential units along with 5,000 sq. ft. of retail space and 109 parking spaces.



LOCATION: 806 Channing Place, NE

DEVELOPER(S): Douglas Development Corporation

ARCHITECT(S): Eric Colbert & Associates / GTM Architects /

Parker Rodriguez

CONTRACTOR(S): McCullough Construction

LEED: Silver EST. VALUE: \$56 million

STATUS: Under Construction

TARGETED DELIVERY: Q3 2017

SPECS: Brookland Press contains two six-story buildings with a total of 295 apartments and 65 parking spaces. A former government printing facility (c. 1920s) on the site was converted into residential use and a new six-story building was constructed, connected by a covered walkway over Channing Place. The project was completed in September 2017.



CAPITOL GATEWAY MARKETPLACE

LOCATION: 58th & East Capitol Streets, NE

DEVELOPER(S): A&R Development / DC Housing Authority **ARCHITECT(S):** Lessard Design / Bowman Consulting

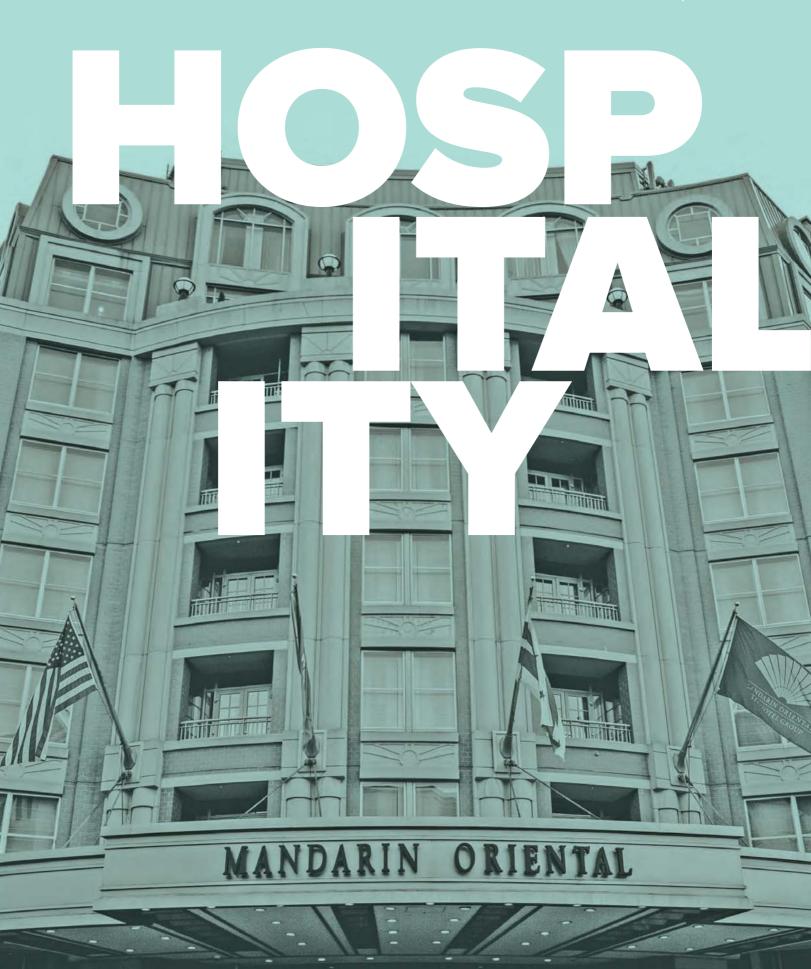
CONTRACTOR(S): Clark Builders Group

LEED: Silver EST. VALUE: \$100 million

STATUS: Near Term

SPECS: The five-story Capitol Gateway multi-family building calls for 312 affordable apartment units with the potential for up to 17,000 sq. ft. of ground floor retail space. There is also an opportunity for a 135,000 sq. ft. large-format retailer and a restaurant pad site (up to 8,800 sq. ft.) on the 10-acre site.

HOSPITALITY DEVELOPMENT IN WASHINGTON, DC





By: Kannan Sankaran, Managing Director, CBRE Hotels, Consulting

The Washington, DC metropolitan market area is the fourth largest hotel market (based on supply of hotel rooms) with nearly 111,000 rooms, including more than 30,000 rooms within the District of Columbia.

ANNUAL VISITORS1

HOTEL OCCUPANCY RATE²

HOTEL ROOM INVENTORY²

REVPAR²

22.0M

78.4%

30,274

\$183.62

3.3% INCREASE FROM 2015

Q3 2016-Q2 2017

Q3 2016-Q2 2017

Q3 2016-Q2 2017

LARGEST METRO HOTEL MARKETS (NUMBER OF ROOMS)								
Orlando	123,130	Atlanta	96,492					
New York	115,772	Houston	85,532					
Chicago	114,462	Dallas	82,501					
WASHINGTON, DC	110,908	Phoenix	64,221					
Los Angeles	99,875	San Diego	61,448					

Source: STR (Q2 2017)

After declining 1.6% in 2013 due in large part to the federal government budget sequestration that took effect in March and the shutdown that took place in October that impacted hotels in the regional market area, the DC metro hotel market rebounded with strong annual RevPAR growth exceeding the long run average (3.1%) in 2014 through projected year-end 2017. While hotels in the regional market area on average enjoyed record occupancy levels in 2016 (72.1% as compared to the previous peak in 2000 of 71.8%), growth in new supply is projected to outpace the increase in demand each successive year from 2017 through 2020, thereby slowing growth in RevPAR from 4.7% in 2017 to 1.1% in 2020.

Within the District of Columbia, occupancy continued to exceed historical records in 2016, the fourth consecutive year that the average hotel in DC attained a record level, finishing the year at 78.4%. Furthermore, average occupancy in DC over the last four quarters (Q3 2016 to Q2 2017) was 78.4%, compared to the entire DC metro area at 72.2% and the U.S. at 65.6%. In terms of rate growth, hotels in DC and the metro area achieved strong respective growth levels of 6.9% and 5.3% over the past four quarters compared to just 2.7% nationally. Similarly, achieved RevPAR growth for the period Q3 2016 through Q2 2017 was 7.6% and 6.8% for DC and DC metro area hotels respectively, more than doubling the 3.2% RevPAR growth at the national level.

Between the second quarters of 2012 and 2017, the DC metro market area added more than 5,800 guestrooms to the regional inventory. Based on the increase in hotel rooms available during the indicated timeframe, the DC metro market was the sixth fastest growing metro hotel market, with more than 3,000 of the added rooms within DC alone. Furthermore, there are more than 11,000 rooms in the supply pipeline in the metro region, from those in the planning stage to those that are under construction, including 4,000+ rooms in the nation's capital.

1. DestinationDC (2016 Visitor Statistics) 2. CBRE Hotels' Americas Research & STR. Hotel Metrics, Trailing Twelve Months through Q2 2017. RevPAR = Revenue per Available Room. Figures represent hotels in the District of Columbia.

HOSPITALITY DEVELOPMENT

NET INCREASE IN	ROOMS IN MAJOR I	METRO MARKETS (Q2 2012-Q2	2 2017)
New York	21,216	WASHINGTON, D.C.	5,826
Houston	11,215	Denver	5,068
Austin	7,327	Orlando	5,048
Miami	6,529	Pittsburgh	4,999
Chicago	6,478	Dallas	4,927

Source: STR

DC's tourism outlook remains strong, with 22.0 million visitors in DC in 2016, including two million international travelers. 2016 represented the seventh consecutive year of record level visitation to the nation's capital.³ Top attractions include the Lincoln Memorial, the National Air & Space Museum, and the National Museum of Natural History, with each attracting over seven million visitors. In addition, the National Museum of African-American History & Culture, which opened in September 2016, has hosted more than 2.8 million visitors during its first 12 months of operation.⁴ Furthermore, the opening of the Museum of the Bible (November 2017) is expected to see three million visitors in its first year of operation.⁵

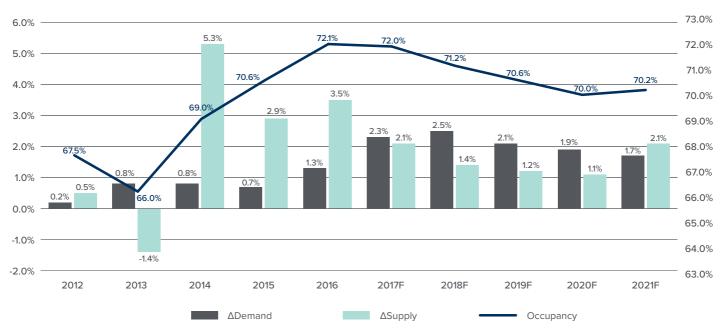
In mid-October, The Wharf mixed-use development kicked off its grand opening celebration. The project, which has transformed DC's Southwest Waterfront neighborhood into a prime waterfront destination along a one-mile stretch of the Potomac River, features a mix of restaurants, retailers, entertainment venues, residences, and businesses. Along with three new hotels—InterContinental, Canopy, and Hyatt House—totaling over 600 guestrooms and suites The Wharf features three music venues, including the 6,000-person capacity The Anthem.

Investor interest in hotels (from those that have yet to be developed to existing properties) in the DC metro area continues to remain strong, in large part due to the relative stability of the regional hotel market historically as compared to other top hotel markets during periods of uncertainty or economic contraction. Going forward, the average annual growth in RevPAR for the DC metro area hotels is projected to be 2.3% for the period from 2016 through 2019, topping top RevPAR markets such as New York (0.1%) and San Francisco (-1.5%).



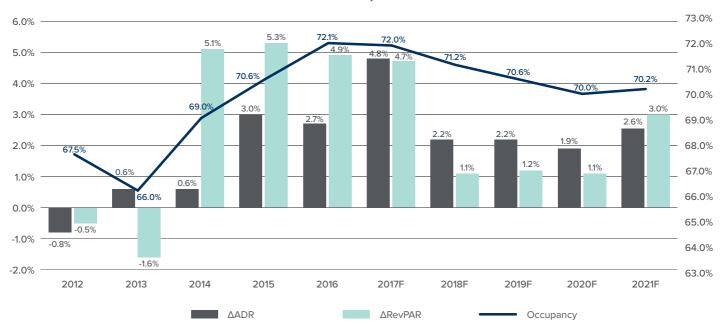
HOSPITALITY DEVELOPMENT

DC METRO AREA HOTEL TRENDS: SUPPLY, DEMAND, AND OCCUPANCY



Source: CBRE Hotels' Americas Research; STR (F=forecast)

DC METRO AREA HOTEL TRENDS: AVERAGE DAILY RATE, REVPAR & OCCUPANCY



Source: CBRE Hotels' Americas Research; STR (F=forecast)



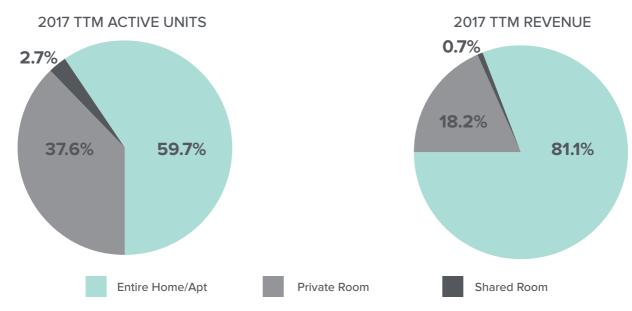
In addition to hotels, the lodging environment also consists of Airbnb units. Following is an overview of Airbnb's presence in the DC region. The estimates of Airbnb performance come from Airdna, a firm that provides data and analytics on Airbnb rental performance for more than four million Airbnb listings worldwide. Figure 1 shows the total number of units available, sold, and revenue generated from July 2016 through June 2017 along with the calculated occupancy, Average Daily Rate (ADR), RevPAR, and year-over-year growth rates. Figure 2 shows the percent of units and revenue by unit type for the trailing 12 months (TTM) from July 2016–June 2017.

FIGURE 1: AIRBNB PERFORMANCE (JUNE 2017)

METRIC	2017	Y-O-Y CHANGE
Occupancy	55.7%	-1.9%
ADR	\$137.86	15.1%
RevPAR	\$ 76.76	12.9%
Available Supply	2,356,409	80.4%
Units Sold	1,312,390	77.0%
TOTAL REVENUE	\$180,992,841	103.8%

Source: Airdna, CBRE Hotels' Americas Research, Q2 2017

FIGURE 2: PERCENT OF ACTIVE UNITS AND REVENUE BY LISTING TYPE



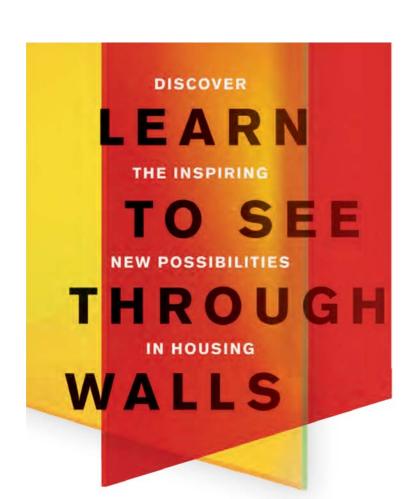
Source: Airdna, CBRE Hotels' Americas Research (TTM = trailing twelve months, July 2016–June 2017)

While Airbnb can be a direct competitor to traditional hotels in certain markets, it is extremely difficult to quantify the impact, particularly when hotels are achieving year-over-year record occupancy levels in DC. This suggests that in the DC metro market Airbnb is accommodating a high percentage of incremental demand in the market as opposed to taking away business from hotels.

Among other factors, Airbnb does have an impact on ADR—normally at times of high occupancy, due to scarcity of available

rooms (particularly during peak periods of demand), hotel operators would be able to drive higher rates as a result of supply and demand.

One interesting note is that traditional hotels still have a significant advantage in terms of suitability to the corporate traveler. In the DC metro market, only 16.1% of Airbnb units were categorized as "business travel ready", meaning they meet a set of criteria defined by Airbnb that render a unit as being appropriate for business travelers.





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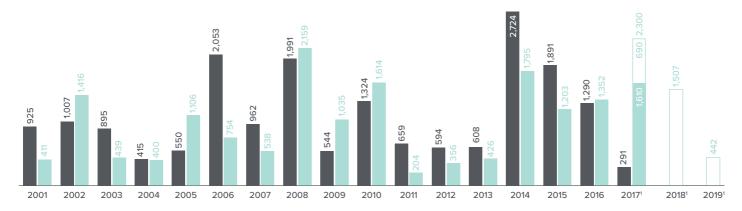




DEVELOPMENT

HOTEL ROOMS (AUGUST 2017)





Source: WDCEP Research, August 2017

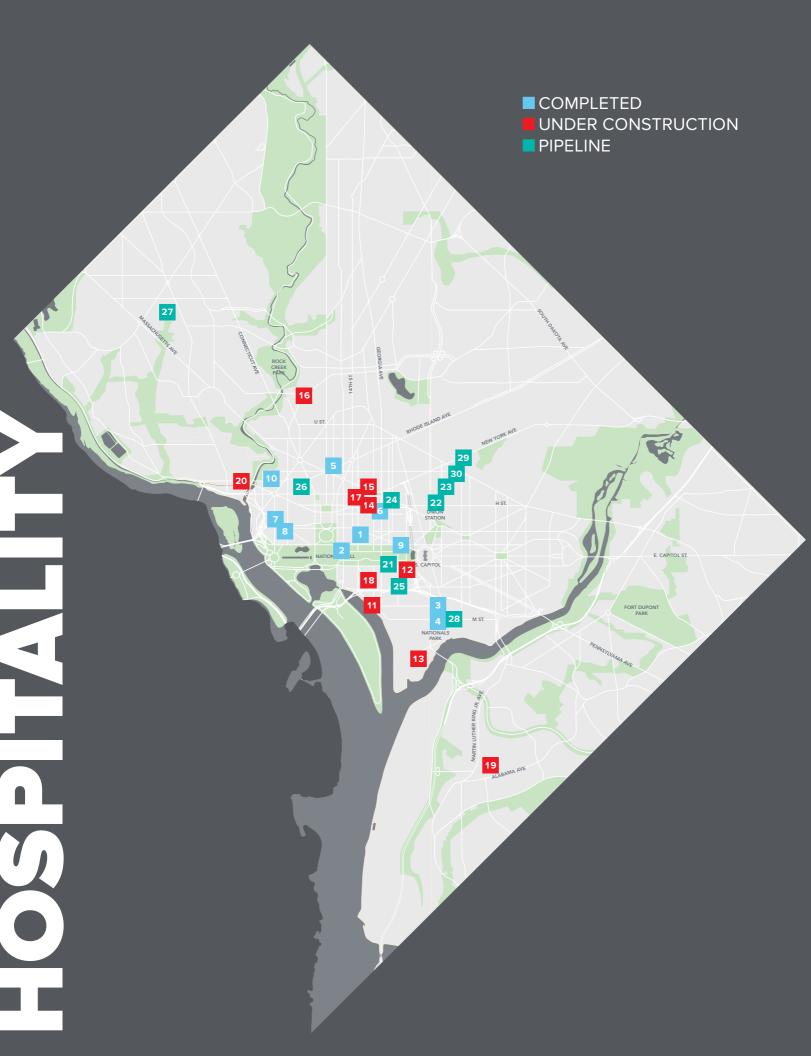


Editor's note: In 2017, community projects were moved from Hospitality to Quality of Life

DC HOSPITALITY DEVELOPMENT (AUGUST 2017)

	PROJECTS	HOSPITALITY SQ. FT.	ROOMS	NET NEW ROOMS ²
COMPLETED	119	17,691,315	16,818	6,822
2001	7	433,000	411	175
2002	13	915,600	1,416	409
2003	8	2,967,083	439	86
2004	8	1,664,481	400	400
2005	11	932,800	1,106	890
2006	7	919,100	754	238
2007	5	690,500	538	-10
2008	8	3,122,253	2,159	132
2009	6	669,965	1,035	207
2010	3	865,000	1,614	
2011	3	134,100	204	204
2012	5	64,000	356	
2013	4	282,070	426	305
2014	8	1,540,863	1,795	1,795
2015	8	425,465	1,203	546
2016	9	1,763,835	1,352	1,023
2017 YTD	6	301,200	1,610	422
UNDER CONSTR.	15	3,116,084	2,639	1,872
2017 DELIVERY	2	1,060,000	690	690
2018 DELIVERY	11	1,598,529	1,507	873
2019 DELIVERY	2	457,555	442	309
PIPELINE	51	5,495,164	5,777	5,407
NEAR TERM	24	2,267,970	2,178	2,178
LONG TERM	27	3,227,194	3,599	3,229
TOTAL	185	26,302,563	25,234	14,101
IVIAL	103	20,302,303	25,254	14,101

1. projections based on projects under construction as of August 2017. 2. Net new rooms only reflect rooms in hotel projects or rooms added/removed in redevelopment projects (rooms are removed from inventory based on project's status).



DEVELOPMENT PIPELINE

	PROJECT	WARD	LOCATION	DEVELOPER(S)	HOSPITALITY SF	HOTEL ROOMS	EST. VALUE (\$M) ¹	DELIVERY ²
0	P HOSPITALITY PROJEC	CTS C	OMPLETED (3Q 2016-A	AUGUST 2017)				
1	Trump International Hotel, The Old Post Office	2	1100 Pennsylvania Ave., NW	Trump Hotel Collection	536,000	263	\$200	Q3 16
2	National Museum of African- American History & Culture	2	The National Mall	Smithsonian	409,000		\$385	Q3 16
3	Homewood Suites	6	50 M St., SE	C/G Investments / Englewood LLC	135,200	195	\$60	Q4 16
	F1rst (Residence Inn by Marriott)	6	1233 1 st St., SE	McCaffery Interests / Grosvenor Americas / Clark Enterprises Inc.	127,200	170	\$150	Q1 17
	The Darcy	2	1515 Rhode Island Ave., NW	KHP Capital Partners	87,600	226		Q2 17
	Pod Hotel	2	627–631 H St., NW	Modus Hotels / Monument Realty / Cafritz Interests	61,400	245	\$60	Q1 17
7	Hotel Hive	2	2224 F St., NW	Abdo Development	25,000	83		Q1 17
3	U.S. Diplomacy Center (Phase I)	2	2201 C St., NW	General Services Administration	22,375		\$35	Q4 16
	National Gallery of Art (expansion)	2	4 th & Constitution Ave., NW	National Gallery of Art			\$69	Q3 16
0	Fairmont Washington	2	2401 M St., NW	MetLife		415	\$27	Q1 17
1	P HOSPITALITY PROJECT The Wharf (Phase I)	6	Southwest Waterfront	Hoffman-Madison Waterfront	630,000	690	\$1,326	Q4 17
	, ,					690		
2	Museum of the Bible	6	300 D St., SW	Museum of the Bible	430,000		\$400	Q4 17
3	D.C. United Stadium	6	100 Potomac Ave., SW	D.C. United / DC Government	421,000	260	\$287	Q2 18
1 5	CityCenterDC (Conrad Hotel) Columbia Place	2	950 New York Ave., NW 901 L St., NW	Hines / Qatari Diar Quadrangle Dev. / Capstone Dev. / Marriott	358,000 350,000	360 504	\$270 \$225	Q1 19 Q3 18
6	The Line DC	1	1770 Euclid St., NW	Foxhall Partners / Friedman Capital Advisors / Sydell Group	172,041	227	\$100	Q1 18
7	Eaton by Langham	2	1201 K St., NW	Pacific Eagle Holdings	172,000	209		Q2 18
8	International Spy Museum	6	900 L'Enfant Plaza, SW	JBG Smith	140,000		\$162	Q3 18
9	Entertainment and Sports Arena	8	1100 Alabama Ave., SE	Events DC / DC Government	116,500		\$65	Q3 18
0	Latham Hotel	2	3000 M St., NW	Thor Equities	99,555	82		Q1 19
) IC	P HOSPITALITY PROJEC	CTS P	IPELINE (NEAR TERM)					
4	ı						\$976	2025
	National Air and Snace Museum	2	The National Mall	Smithsonian	687 000			
	National Air and Space Museum Storey Park	6	The National Mall 1005 1 st St., NE	Smithsonian Perseus Realty / Four Points / Greencourt Capital	687,000 184,436	235	Ψ370	
2	'			Perseus Realty / Four Points /	,	235	\$370	2019/20
2	Storey Park	6	1005 1 st St., NE	Perseus Realty / Four Points / Greencourt Capital Trammell Crow Company / High Street	184,436		\$135	2019/20
1 2 3 4	Storey Park Armature Works	6	1005 1 st St., NE 1200 3 rd St., NE	Perseus Realty / Four Points / Greencourt Capital Trammell Crow Company / High Street Residential Peebles Corporation / MacFarlane	184,436 147,000	200		2019/20 2020 2019
2 3 4	Storey Park Armature Works SLS Lux Hotel & Residences	6 6	1005 1 st St., NE 1200 3 rd St., NE 901 5 th St., NW	Perseus Realty / Four Points / Greencourt Capital Trammell Crow Company / High Street Residential Peebles Corporation / MacFarlane Partners CityPartners / Potomac Investment	184,436 147,000 137,950	200 175	\$135	2019/20 2020 2019 2019/20
2 3 4 5	Storey Park Armature Works SLS Lux Hotel & Residences 555 E Street	6 6 6	1005 1st St., NE 1200 3rd St., NE 901 5th St., NW 555 E St., SW	Perseus Realty / Four Points / Greencourt Capital Trammell Crow Company / High Street Residential Peebles Corporation / MacFarlane Partners CityPartners / Potomac Investment Properties / Adams Investment Group	184,436 147,000 137,950 130,000	200 175 252	\$135	2019/20 2020 2019 2019/20 2019/20
2 3 4	Storey Park Armature Works SLS Lux Hotel & Residences 555 E Street AC Hotel	6 6 6 6	1005 1st St., NE 1200 3rd St., NE 901 5th St., NW 555 E St., SW 1112 19th St., NW	Perseus Realty / Four Points / Greencourt Capital Trammell Crow Company / High Street Residential Peebles Corporation / MacFarlane Partners CityPartners / Potomac Investment Properties / Adams Investment Group OTO Development	184,436 147,000 137,950 130,000 125,650	200 175 252 219	\$135	2019/20 2019/20 2019/20 2019/20 2019/20 2022 2019/20
2 3 4 5 6 7	Storey Park Armature Works SLS Lux Hotel & Residences 555 E Street AC Hotel 3900 Wisconsin Avenue	6 6 6 6 2 3	1005 1st St., NE 1200 3rd St., NE 901 5th St., NW 555 E St., SW 1112 19th St., NW 3900 Wisconsin Ave., NW	Perseus Realty / Four Points / Greencourt Capital Trammell Crow Company / High Street Residential Peebles Corporation / MacFarlane Partners CityPartners / Potomac Investment Properties / Adams Investment Group OTO Development Roadside Development / Sekisui House	184,436 147,000 137,950 130,000 125,650 125,000	200 175 252 219 140	\$135	2019/20 2020 2019 2019/20 2019/20 2022

DEVELOPMENTHIGHLIGHTS



LOCATION: 950 New York Avenue, NW

DEVELOPER(S): Hines / Qatari Diar

ARCHITECT(S): Herzog & de Meuron / HKS PC
CONTRACTOR(S): Turner Construction Company

LEED: Silver EST. VALUE: \$270 million

STATUS: Under Construction

TARGETED DELIVERY: Q1 2019

SPECS: As part of the CityCenterDC redevelopment of the former convention center site, the new 11-story, 360-room luxury Conrad Hotel will feature 30,000 sq. ft. of retail and complement the first mixed-use phase (2013–14 delivery). Hines entered into a 99-year ground lease with the DC government for the entire CityCenterDC project.



AC HOTE

LOCATION: 1112 19th Street, NW
DEVELOPER(S): OTO Development
ARCHITECT(S): WDG Architecture
STATUS: Near Term
TARGETED DELIVERY: Q4 2019

SPECS: The former site of Smith & Wollensky will be redeveloped into a 219-room AC Hotel by Marriott. Amenities include lounge and bar, cub room, meeting room, fitness center, and a rooftop terrace.



MUSEUM OF THE BIBLE

LOCATION: 300 D Street, SW

DEVELOPER(S): Museum of the Bible

ARCHITECT(S): SmithGroupJJR

Contractor(s): Clark Construction Group

LEED: Certified EST. VALUE: \$400 million

STATUS: Under Construction

TARGETED DELIVERY: $Q4\ 2017$

SPECS: The eight-story, former home of the Washington Design Center was transformed into the Museum of the Bible. The building's façade was restored, interior gutted and reinforced, and a two-story glass addition was built on the roof. Plans also include a 472-seat performing arts center and 500-1,000 person capacity ballroom. The museum opened in November 2017.



LOCATION: 301 N Street, NE DEVELOPER(S): Foulger-Pratt

ARCHITECT(S): Torti Gallas and Partners / AA Studio

CONTRACTOR(S): Foulger-Pratt

LEED: Gold EST. VALUE: \$150 million

STATUS: Near Term TARGETED DELIVERY: 2020

SPECS: Plans for Press House at Union District call for 372 residential units, 175 hotel rooms, 25,700 sq. ft. of office space, and 25,300 sq. ft. of ground floor retail. The project will rehabilitate and incorporate a 36,000 sq. ft. historical structure.

DEVELOPMENT HIGHLIGHTS



ENTERTAINMENT AND SPORTS ARENA

LOCATION: 1100 Alabama Avenue, SE

DEVELOPER(S): Events DC / DC Government

ARCHITECT(S): Marshall | Moya Design / ROSSETTI

CONTRACTOR(S): Smoot Construction DC / Gilbane Building Company

LEED: Silver EST. VALUE: \$65 million

STATUS: Under Construction

TARGETED DELIVERY: Q3 2018

SPECS: The Entertainment and Sports Arena (ESA) is part of the Saint Elizabeths East Campus redevelopment project. The ESA will be a 116,500 sq. ft. facility to serve as the Washington Wizards training complex and the Washington Mystics home arena. The arena is expected to hold 4,200 seats and bring in 380,000 visitors annually.



NATIONAL LAW ENFORCEMENT MUSEUM

LOCATION: 400 block of E Street, NW

DEVELOPER(S): NLEOMF

ARCHITECT(S): Davis Buckley Architects & Planners

Contractor(s): Clark Construction Group

LEED: Silver EST. VALUE: \$80 million

STATUS: Under Construction

TARGETED DELIVERY: $Q3\ 2018$

SPECS: The 55,000 sq. ft. NLEM is an extension of the National Law Enforcement Officers Memorial and will occupy three below-grade levels and two at-grade pavilions in the 400 block of E Street, NW.



INTERNATIONAL SPY MUSEUM

LOCATION: 900 L'Enfant Plaza, SW

DEVELOPER(S): JBG Smith / International Spy Museum

ARCHITECT(S): Hickok Cole Architects / Rogers Stirk Harbour + Partners

CONTRACTOR(S): Clark Construction Group

LEED: Certified EST. VALUE: \$162 million

STATUS: Under Construction

TARGETED DELIVERY: Q3 2018

SPECS: The new six-story, 140,000 sq. ft. museum at L'Enfant Plaza will be located directly in front of the glass atrium on the Plaza facing 10th Street. The International Spy Museum plans to move from their 800 F Street, NW location in 2018.



D.C. UNITED STADIUM

 LOCATION:
 100 Potomac Avenue, SW

 DEVELOPER(S):
 D.C. United / DC Government

 ARCHITECT(S):
 Marshall | Moya Design / Populous

 CONTRACTOR(S):
 Turner Construction Company

LEED: Gold EST. VALUE: \$287–\$300 million

STATUS: Under Construction

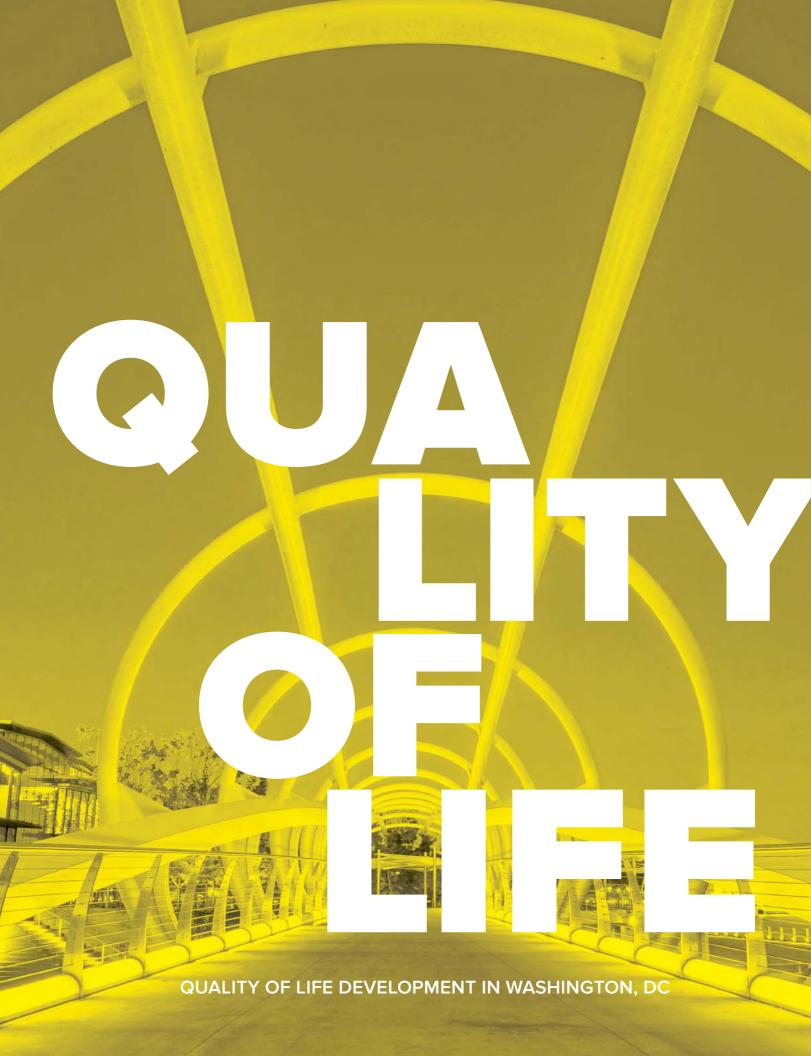
 $\textbf{TARGETED DELIVERY:} \quad Q2 \; 2018 \\$

SPECS: The new 19,000-seat Audi Field will include approximately 17,000 sq. ft. of retail space along 1st Street, 31 suites, and a 40,000 sq. ft. public plaza at the main entrance. The DC government assembled the land and will handle infrastructure work and D.C. United will be responsible for stadium construction.

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Since 2001, more than 20 million sq. ft. of education, medical, and community space has been built or modernized in DC, with an additional 1.5 million sq. ft. currently under construction.

TOTAL COLLEGE ENROLLMENT¹

PUBLIC SCHOOL ENROLLMENT²

RECREATION CENTERS AND PARKS³

PUBLIC LIBRARIES 4

~80,000

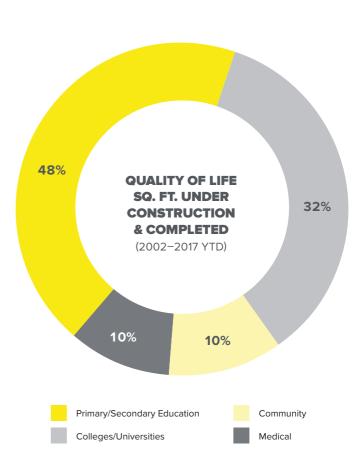
90,061

262

26

Last year set a record of 2.4 million square feet of deliveries, while 2017 remains on pace to reach 1.4 million square feet of deliveries. The majority of deliveries over the last 15 years (2002–2017 YTD) comes from education with primary and secondary schools (public and private) contributing to 48% of the 21.2 million square feet completed since 2002 and currently under construction. Additionally, DC public school enrollment has seen a 3.1% increase since 2016.

Community uses comprise about 10% of all quality of life development completed since 2002 or under construction, and is driven by new or modernized public libraries and recreation/community centers. Major projects currently under construction include the Martin Luther King Jr. Library (350,000 sq. ft.), the Palisades Recreation Center (12,000 sq. ft.), and Phase III of THEARC (9,300 sq. ft.). Park projects underway in 2017 include Phase I of the Constitution Gardens renovation and the 3rd & L Street Park in NoMa. The 11th Street Bridge Park along the Anacostia River is in the planning phase and will feature cultural amenities including performance space, play areas, public art, and an environmental education center.



Editor's note: In 2017, community projects were moved from Hospitality to Quality of Life

1. DC schools belonging to the Consortium of Universities of the Washington Metropolitan Area, NYU Washington, DC and University of California's Washington Center. 2. District of Columbia Office of the State Superintendent of Education, 2016-17 School Year General Education Enrollment Audit Data and Overview. Includes public schools and public charter schools. 3. Open Data DC, DC Department of Parks and Recreation. Data accessed 11/1/2017. 4. DC Public Library, https://www.dclibrary.org/hours-locations



Helping to connect DC's parks and neighborhood spaces is more than 100 miles of bike lanes and trails with plans to build an additional seven miles in 2017.^{5,6} Current regulations in DC require bicycle parking in all office, retail, and service buildings with car parking.⁷ Bicycle spaces required should equal at least 5% of the number of car parking available, with some newly constructed, non-residential buildings required to offer showers and changing facilities.^{8,9} DC was among the first cities in the U.S. to introduce a bike sharing program and is currently ranked third in the nation in percentage of commuters who bike to work¹⁰. Trip data from Capital Bikeshare shows average annual growth in ridership of 13% between 2012 and 2016. There are currently 23 Capital Bikeshare stations in DC with plans to open 8 additional stations in Wards 7 and 8.^{9,11}

QUALITY OF LIFE DEVELOPMENT (AUGUST 2017)

TOTAL	362	28,126,224
LONG TERM	35	3,322,216
NEAR TERM	27	2,583,609
PIPELINE	62	5,905,825
2020 DELIVERY	1	400,000
2019 DELIVERY	1	30,100
2018 DELIVERY	15	916,840
2017 DELIVERY	7	170,832
UNDER CONSTRUCTION	24	1,517,772
2017 YTD	11	1,283,696
2016	24	2,379,575
2015	19	1,727,039
2014	13	1,528,010
2013	18	1,322,988
2012	19	1,237,579
2011	17	1,193,187
2010	15	1,186,818
2009	21	1,404,656
2007	11	244,004 715.410
2006 2007	17 4	1,086,106
2005	15	730,708
2004	18	1,258,381
2003	19	1,245,094
2002	17	1,135,500
2001	18	1,023,876
COMPLETED	276	20,702,627
	PROJECTS	SQ. FT.

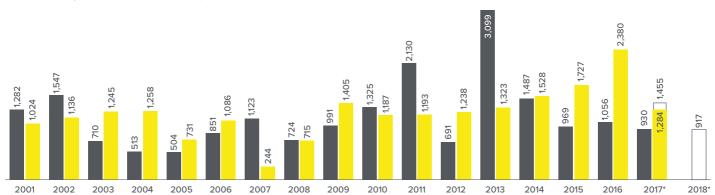
COMPLETED

□PROJECTED

■ GROUNDBREAKING

QUALITY OF LIFE DEVELOPMENT

(AUGUST 2017, SQ. FT. IN THOUSANDS)

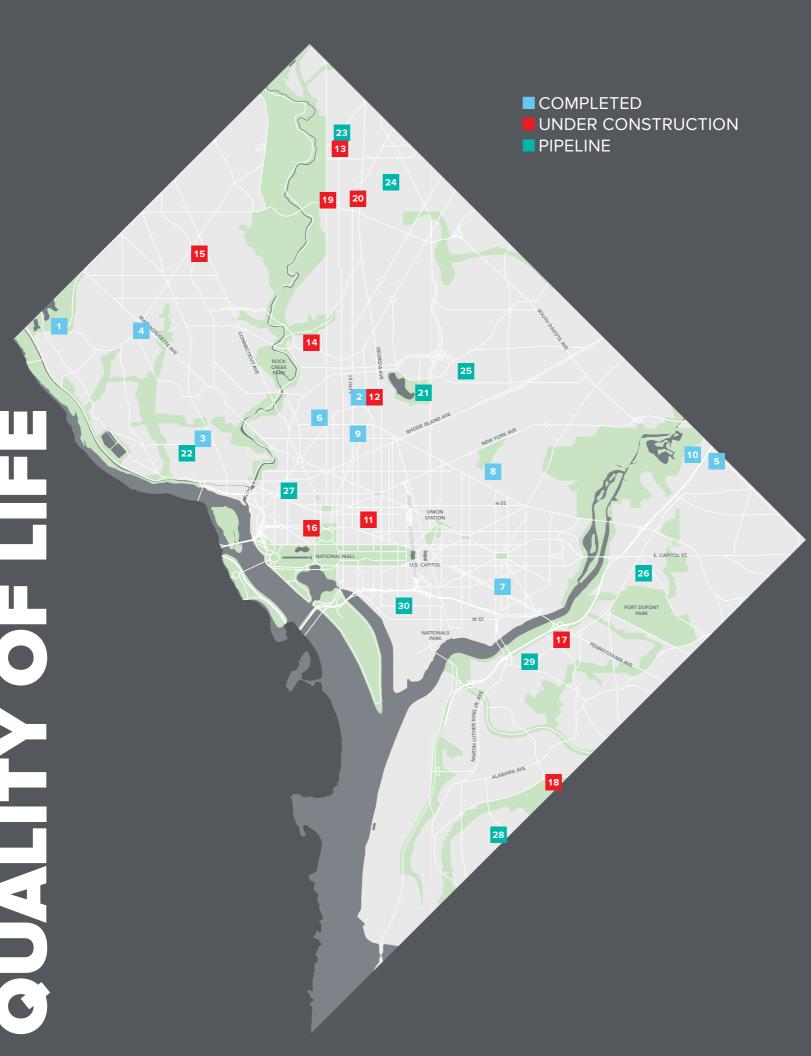


 $^{{}^*\,\}mathrm{projections}\,\mathrm{based}\,\mathrm{on}\,\mathrm{targeted}\,\mathrm{delivery}\,\mathrm{dates}\,\mathrm{of}\,\mathrm{projects}\,\mathrm{under}\,\mathrm{construction}\,\mathrm{as}\,\mathrm{of}\,\mathrm{August}\,2017$

5. DDOT, https://ddot.dc.gov/page/bicycle-lanes 6. DDOT, DC Bike Map 2012 https://ddot.dc.gov/sites/default/files/dc/sites/ddot/publication/attachments/dc_bike_map_2012_full_version.pdf 7. Exceptions include C-3-C, C-4, and C-5 districts.

8. Zoning Regulations of 2016, Chapter 11-C8, Subtitle 11-C General Rules 9. Applies to newly constructed, non-residential buildings that require long-term bicycle parking and occupy more than 25,000 square feet in gross floor area.

10. WTOP Surprising stats: How many people bike to work around DC and more https://wtop.com/local/2017/05/many-people-really-bike-work-around-dc-surprising-stats/ 11. Capital Bikeshare Blog, https://www.capitalbikeshare.com/blog/east-of-the-anacostia-river-network-expansion

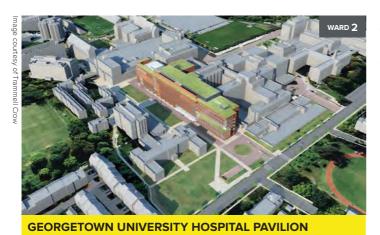


DEVELOPMENT PIPELINE



	PROJECT	WARD	LOCATION	DEVELOPER(S)	QUALITY OF LIFE SF	EST. VALUE (\$M) ¹	DELIVERY ²
ОР	QUALITY OF LIFE PRO	OJEC.	TS COMPLETED (3Q 20	016-AUGUST 2017)			
1	New Sibley	3	5255 Loughboro Rd., NW	Sibley Memorial Hospital / Johns Hopkins Medicine	470,000	\$242	Q3 16
2	Howard Plaza Towers (West)	1	2251 Sherman Ave., NW	Howard University / Corvias	260,000	\$36	Q3 17
	Duke Ellington School of the Arts	2	3500 R St., NW	DC Public Schools / Department of General Services	258,072	\$179	Q3 17
	AU East Campus	3	3501 Nebraska Ave., NW	American University	242,934	\$115	Q1 17
	Ron Brown College Preparatory High School	7	4800 Meade St., NE	DC Public Schools / Department of General Services	180,000		Q3 17
	Marie Reed Elementary School	1	2201 18 th St., NW	DC Public Schools / Department of General Services	140,000	\$62	Q3 17
	Watkins Elementary School Modernization	6	420 12 th St., SE	DC Public Schools / Department of General Services	70,826	\$44	Q3 17
	MSSD Residence Hall	5	800 Florida Ave., NE	Gallaudet University	68,500	\$28	Q4 16
	Garrison Elementary School	2	1200 S St., NW	DC Public Schools / Department of General Services	61,040	\$31	Q3 17
10	Kenilworth-Parkside Recreation Center	7	4321 Ord St., NE	Department of General Services / Department of Parks and Recreation	31,359	\$17	Q2 17
ОР	QUALITY OF LIFE PRO	OJEC.	TS UNDER CONSTRU	CTION			
11	Martin Luther King Jr. Library	2	9 th & G Sts., NW	DC Public Library / Jair Lynch Real Estate Partners	350,000	\$208	2020
12	Howard Plaza Towers (East)	1	2251 Sherman Ave., NW	Howard University / Corvias	260,000	\$36	Q2 18
13	Parks at Walter Reed (Delano Hall—Building 11)	4	6800 Georgia Ave., NW	Hines / Urban Atlantic / Triden Development Group	170,000		Q3 17
14	Bancroft Elementary School	1	1755 Newton St., NW	DC Public Schools / Department of General Services	146,000	\$76	Q3 18
5	Murch Elementary School	3	4810 36 th St., NW	DC Public Schools / Department of General Services	112,700	\$83	Q3 18
6	Corcoran Gallery of Art	2	500 17 th St., NW	George Washington University	100,000	\$80	Q2 18
7	Orr Elementary School	8	2200 Minnesota Ave., SE	DC Public Schools / Department of General Services	68,000	\$47	Q4 18
8	THE ARC (Phase III)	8	18th St. & Mississippi Ave., SE	WC Smith / Building Bridges Across the River	67,340	\$34	Q4 17
9	Milton Gottesman Jewish Day School of the Nation's Capital	4	6045 16 th St., NW	Jewish Primary Day School	60,000	\$22	Q3 17
20	Beacon Center	4	6100 Georgia Ave., NW	The Community Builders / Emory United Methodist Church	58,000	\$43	Q4 18
OP	QUALITY OF LIFE PRO	OJEC.	TS PIPELINE (NEAR TER	RM)			
21	McMillan Sand Filtration Site	5	North Capitol St. & Michigan Ave., NW	Vision McMillan Partners (Jair Lynch Real Estate Partners / Trammell Crow Company / EYA)	1,017,500	\$720	2021+
22	Georgetown University Hospital Pavilion	2	3800 Reservoir Rd., NW	Georgetown University	497,000	\$560	2022
23	Children's National Health Research Center	4	6825 16 th St., NW	Children's National Medical Center	400,000	\$250	2019
24	Calvin Coolidge Senior High School	4	6315 5 th St., NW	DC Public Schools / Department of General Services	286,300	\$163	2019
25	St. Paul's College Seminary & Residence	5	3025 4 th St., NE	Elm Street Development / Boundary Companies	124,450		
26	New Fort Dupont Ice Arena	7	3779 Ely Pl., SE	Department of General Services	78,000	\$20	
27	Thaddeus Stevens School	2	1050 21 st St., NW	Akridge / Argos Group / DC Public Schools / Department of General Services	40,000	\$20	2018
28	Early Childhood Academy Public Charter School	8	885 Barnaby St., SE	Menkiti Group / TenSquare	38,000	\$18	2019
29	Bread for the City	8	17 th & Good Hope Rd., SE	Bread for the City	30,000	\$20	2019/20
30	Southwest Library	6	900 Wesley Pl., SW	DC Public Library	22,032	\$18	2020





LOCATION: 3800 Reservoir Road, NW

DEVELOPER(S): MedStar Georgetown University Hospital / Trammell Crow

ARCHITECT(S): Shalom Baranes Associates / HKS PC

Contractor(s): Clark Construction Group

EST. VALUE: \$560 million
STATUS: Near Term
TARGETED DELIVERY: Q1 2022

SPECS: Plans for the new hospital pavilion call for a new six-story, 497,000 sq. ft. medical facility on an existing parking lot and renovations to the existing hospital. Programmatic highlights of the new pavilion include 32 operating rooms, a 32 treatment bay emergency department, 156 private patient rooms and a new rooftop helipad.



RFK STADIUM CAMPUS

LOCATION: 2400 East Capitol Street, NE

DEVELOPER(S): Events DC ARCHITECT(S): OMA

STATUS: Near – Long Term

TARGETED DELIVERY: 2021

SPECS: The recommended short-term elements, which can be designed and built over the next two to five years, include three multi-purpose recreation and community playing fields, a market hall (offering concessions, prepared food and groceries), a sports & recreation complex, three pedestrian bridges that will connect the main site to Kingman and Heritage Islands, and a memorial to Robert F. Kennedy. A long-term development plan for the 190-acre site could include a 20,000-seat arena or NFL stadium.



THEARC (PHASE III)

LOCATION: 18th Street & Mississippi Avenue, SE

DEVELOPER(S): WC Smith / Building Bridges Across the River

ARCHITECT(S): Sanchez Palmer

CONTRACTOR(S): WCS Construction

LEED: Silver EST. VALUE: \$34 million

STATUS: Under Construction

TARGETED DELIVERY: Q4 2017

SPECS: THEARC Phase III (93,000 sq. ft.) is an expansion of the Town Hall Education, Arts and Recreation Campus that WC Smith built in 2005 to provide a venue for cultural, educational, and recreational activities for residents in the area. Phase III includes the Bishop Walker School for Boys, an expanded clinic run by Children's National Medical Center, The Phillips Collection, AppleTree Institute for Education Innovation, the David Lynch Foundation, and a black box theater.



MARTIN LUTHER KING JR. LIBRARY

DEVELOPER(S): DC Public Library / Jair Lynch Real Estate Partners

ARCHITECT(S): Mecanoo / Martinez & Johnson

 $\textbf{CONTRACTOR(S):} \qquad \text{Smoot Construction DC / Gilbane Building Company}$

LEED: Gold EST. VALUE: \$208 million

STATUS: Under Construction

TARGETED DELIVERY: 2020

SPECS: Renovation plans call for major modernization of the existing four-story, 440,000 sq. ft. library with a one-story penthouse/roof garden addition. The first floor will include performance spaces and level A will include a 19,000 sq. ft. maker space.

DEVELOPMENTHIGHLIGHTS





AU EAST CAMPUS

LOCATION: 3501 Nebraska Avenue, NW
DEVELOPER(S): American University
ARCHITECT(S): Stantec Architecture

CONTRACTOR(S): Skanska

LEED: Gold EST. VALUE: \$115 million

STATUS: Completed TARGETED DELIVERY: Q1 2017

SPECS: American University built a total of five buildings (246,000 sq. ft.) with underground and surface parking on a previous 901-space parking lot (8.1 acres). There are three residence halls (590 beds) and two interconnected academic/administrative buildings.



LOCATION: 6100 Georgia Avenue, NW

DEVELOPER(S): The Community Builders / Emory United Methodist Church

ARCHITECT(S): Torti Gallas Urban

CONTRACTOR(S): Ellisdale Construction & Development

EST. VALUE: \$43 million

STATUS: Under Construction

TARGETED DELIVERY: $\ Q4\ 2018$

SPECS: The Beacon Center will be a mixed-use project wrapped around the existing Emory United Methodist Church. Plans call for 19,000 sq. ft. of renovated and new church space, two residential buildings totaling 99 units of affordable and transitional housing, 8,000 sq. ft. of office space, meeting and classroom space, and 2,500 sq. ft. of retail space.



KENILWORTH-PARKSIDE RECREATION CENTER

LOCATION: 4321 Ord Street, NE

DEVELOPER(S): Department of Parks and Recreation /

Department of General Services

ARCHITECT(S): BELL Architects

CONTRACTOR(S): Coakley & Williams Construction

LEED: Gold EST. VALUE: \$17 million

STATUS: Completed TARGETED DELIVERY: Q2 2017

WARD 3

SPECS: A portion of the former Kenilworth Elementary School was adapted and re-used and a new gymnasium was constructed along with an outdoor pool with a pool house, and a new parking lot. The activities in the recreation center include a boxing room, a fitness center, computer lab, large multi-purpose room, demonstration kitchen, senior's lounge, and teen lounge.



ANACOSTIA CROSSING-11TH STREET BRIDGE PARK

LOCATION: 11th Street Bridge

DEVELOPER(S): 11th Street Bridge Park / Building Bridges Across the River /

DC Department of Transportation

 ARCHITECT(S):
 Olin / OMA

 EST. VALUE:
 \$50 million

 STATUS:
 Near Term

 TARGETED DELIVERY:
 2021

SPECS: The 11th Street Bridge Park is designed to connect the two communities on each side of the Anacostia River. The project will include an amphitheater, a boat launch, community farm, hammock grove and classrooms to teach students about river systems. The Bridge Park design will be the length of three football fields and two see-sawing planes will create a triangulated park totaling 132,300 sq. ft. (116 ft. at its widest point), using the previous piers that held up the old 11th Street Bridge before it was replaced.





LOCATION: 4430 Benning Road, NE

DEVELOPER(S): SOME

ARCHITECT(S): Wiencek + Associates

CONTRACTOR(S): Bozzuto Construction

LEED: Silver EST. VALUE: \$90 million

STATUS: Under Construction

TARGETED DELIVERY: Q4 2017

SPECS: The 180,000 sq. ft. Conway Center will include 202 affordable residential units, workforce & senior housing, SOME's Center for Employment Training, 37,700 sq. ft. for a medical/dental clinic and administrative offices, and 2,000 sq. ft. of retail/café space.



LOCATION: 300 Evarts Street, NE

DEVELOPER(S): Department of Parks and Recreation /

Department of General Services

ARCHITECT(S): Moody Nolan Inc

LEED: Gold EST. VALUE: \$21 million

STATUS: Near Term TARGETED DELIVERY: Q4 2018

SPECS: Plans call for approximately 15,000 sq. ft. of recreation space including a rooftop urban farm, playgrounds, and athletic courts and fields. The site will also be certified as an emergency shelter for the community with a natural gas powered generator.



MILTON GOTTESMAN JEWISH DAY SCHOOL OF THE NATION'S CAPITAL

 LOCATION:
 6045 16th Street, NW

 DEVELOPER(S):
 Jewish Primary Day School

 ARCHITECT(S):
 Geier Brown Renfrow Architects

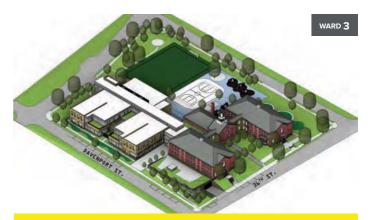
 CONTRACTOR(S):
 Coakley & Williams Construction

LEED: Silver EST. VALUE: \$22 million

STATUS: Under Construction

TARGETED DELIVERY: $Q3\ 2018$

SPECS: The Jewish Primary Day School North Campus (2nd–6th grades) project will incorporate 27,300 sq. ft. of renovated space and approximately 32,200 sq. ft. of new space to accommodate a newly created middle school (7th & 8th grades). The project includes an addition of a third story to an existing building, a new core area with a gymnasium and multi-purpose room, and a new middle school wing.



MURCH ELEMENTARY SCHOOL

 $\textbf{LOCATION:} \hspace{1.5cm} 4810 \; 36^{th} \; Street, \, NW$

 DEVELOPER(S):
 DC Public Schools / Department of General Services

 ARCHITECT(S):
 R. McGhee & Associates / Hord Coplan Macht

CONTRACTOR(S): MCN Build EST. VALUE: \$83 million

STATUS: Under Construction

TARGETED DELIVERY: $Q3\ 2018$

SPECS: The modernization of 47,700 sq. ft. Murch Elementary School includes the renovation of the existing school building plus a 65,000 sq. ft. addition to accommodate about 700 students while also providing adequate cafeteria, gym, and media space to support the current academic program.





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ADAMS MORGAN
ANACOSTIA
CAPITOL RIVERFRONT / SOUTHWEST WATERFRONT
MINNESOTA & BENNING
MT. VERNON TRIANGLE / NOMA / UNION MARKET



NEIGHBORHOOD DEVELOPMENT

ADAMS MORGAN

PROJECT STATUS

- Completed (2001–2012)
- Completed (2013-8/2017)
- Under Construction
- Pineline



Project boundaries are estimates (2015 Orthophoto, DC government)

ADAMS MORGAN has seen an influx of new development over the past five years. During the 12-year timeframe from 2001–2012 more than 1,000 residential units were built or underwent significant renovations in the highlighted area above. However, approximately 880 residential units have been developed since 2013, with another 420 units under construction. Of these 1,300 new units, it is estimated that more than 1,000 units are net new. These investments, along with the amenities in the neighborhood, has contributed to a 9% population increase since 2010.¹

Acclaimed chefs have followed this increase in density with The Michelin Guide featuring seven restaurants in the neighborhood including Roofers Union, The Diner, Sakuramen, Mintwood Place, Jack Rose Dining Saloon, Lapis (Bib Gourmand), and Tail Up Goat (one star).

The neighborhood will also soon welcome The Line DC hotel which will feature restaurants from James Beard-recognized chefs Spike Gjerde and Erik Bruner-Yang. The 227-room hotel will restore and preserve the First Church of Christ, Scientist church building and construct a nine-story addition.

TOTALS	55	3.810.252	236,400	1,297	2.666	155,498	\$960
PIPELINE	7	461,000			351	8,000	\$92
UNDER CONSTRUCTION	4	549,703		227	420	30,403	\$150
COMPLETED (2013-8/2017)	12	934,626	140,000		884	30,100	\$285
COMPLETED (2001-2012)	32	1,864,923	96,400	1,070	1,011	86,995	\$434
	PROJECTS	TOTAL SF	EDUCATION SF	HOTEL ROOMS	RESIDENTIAL UNITS		EST. VALUE (\$ MILLIONS)

1. Esri, 2017 estimates & projections

NEIGHBORHOOD DEVELOPMENT: ADAMS MORGAN























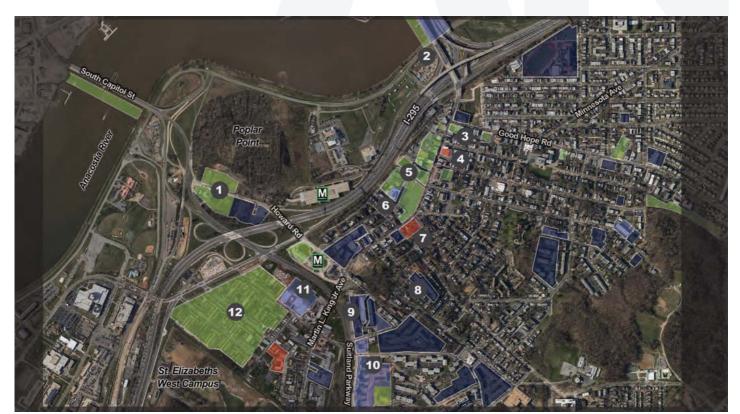


Image courtesy of Perkins Eastman

ANACOSTIA

PROJECT STATUS

- Completed (2001–2012)
- Completed (2013–8/2017)
- Under Construction
- Pipeline



Project boundaries are estimates (2015 Orthophoto, DC government

LOCATED NEAR THE BANKS OF THE ANACOSTIA RIVER, Anacostia and adjacent neighborhoods are enjoying a renaissance with burgeoning small businesses, large-scale development plans, and a thriving arts scene. Cultural destinations in the area include the Anacostia Arts Center, Honfleur Art Gallery, Craig Kraft Studios, and the Anacostia Playhouse. In addition, Busboys and Poets plans to open a restaurant and training center at 2004–2010 Martin Luther King Jr. Avenue.

Over the next 10 years, Anacostia is expected to see nearly six million sq. ft. of mixed-use development. The 25.4-acre Barry Farm (a New Communities Initiative) redevelopment plan will be led by

A&R Development, the DC Housing Authority and Preservation of Affordable Housing. The master plan includes 1,400 mixed-income residential units, 55,000 sq. ft. of retail space, a redefined street grid and a new central park.

Furthermore, Four Points and Curtis Properties are partnering to redevelop a 9.5-acre site, located between U and Chicago Streets along the western side of Martin L. King Jr. Avenue, SE. The master plan for Reunion Square calls for approximately 1.6 million sq. ft. of mixed-use development. And Redbrick has plans for a 2.4 million sq. ft. mixed-use project, Columbian Quarter, on 6.2 acres along Howard Road.

	PROJECTS	TOTAL SF	EDUCATION / MEDICAL SF	OFFICE SF	RESIDENTIAL UNITS	RETAIL SF	EST. VALUE (\$ MILLIONS)
COMPLETED (2001-2012)	24	1,763,458	394,500	125,000	945	13,500	\$328
COMPLETED (2013-8/2017)	7	477,350		80,549	278	1,500	\$440
UNDER CONSTRUCTION	3	151,000			207	15,000	\$89
PIPELINE	17	5,979,564		2,473,450	2,760	304,554	\$2,788
TOTALS	51	8,371,372	394,500	2,678,999	4,190	334,554	\$3,645

NEIGHBORHOOD DEVELOPMENT: ANACOSTIA







Image courtesy of OMA + OLIN

Image courtesy of the Menkiti Group









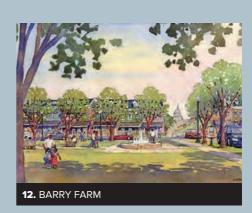




Image courtesy of Chapman Development



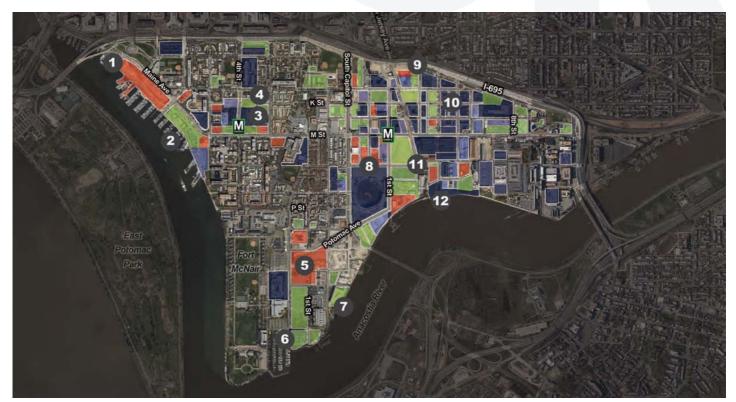




CAPITOL RIVERFRONT / SOUTHWEST WATERFRONT

PROJECT STATUS

- Completed (2001–2012)
- Completed (2013-8/2017)
- **Under Construction**
- Pipeline



Project boundaries are estimates (2015 Orthophoto, DC government)

THE HIGHLIGHTED AREA ABOVE represents approximately one-third of the 4.8 square mile Anacostia Waterfront Initiative (AWI) planning area. The AWI was established in 2000 and is a collaboration of 20 federal and DC agencies that own or control land along the Anacostia River. Over the past 16 years, this area has seen nearly 17 million sq. ft. of development including almost 9,000 residential units and 406,000 sq. ft. of retail space.

The latest addition to DC's waterfront is the mile-long The Wharf mixed-use development.¹ The project features 26 restaurants & bars, 16 retailers, and three entertainment venues, including the 6,000-person The Anthem music hall.

Further east, the Capitol Riverfront is becoming a sports & entertainment destination. It is already home to Nationals Park (Washington Nationals), which drew 2.5 million regional fans in 2017, and in spring/summer 2018 it will welcome the 19,000-seat D.C. United Stadium (Audi Field).

Finally, there is still another 17 million sq. ft. of development yet to come, led by the 1.2 million sq. ft. Phase II of The Wharf which is expected to start construction in fall 2018.

	PROJECTS	TOTAL SF	HOTEL ROOMS	OFFICE SF	RESIDENTIAL UNITS		EST. VALUE (\$ BILLIONS)
COMPLETED (2001-2012)	43	12,152,713	204	6,158,750	4,783	170,980	\$3.38
COMPLETED (2013-8/2017)	20	4,619,507	533	14,500	4,194	234,933	\$1.49
UNDER CONSTRUCTION	22	7,115,805	690	998,200	4,861	455,078	\$3.05
PIPELINE	48	16,905,604	776	4,682,889	9,937	690,133	\$5.17
TOTALS	133	40,793,629	2,203	11,854,339	23,775	1,551,124	\$13.09

^{1.} Phase I delivered in October 2017.

NEIGHBORHOOD DEVELOPMENT: CAPITOL RIVERFRONT / SOUTHWEST WATERFRONT























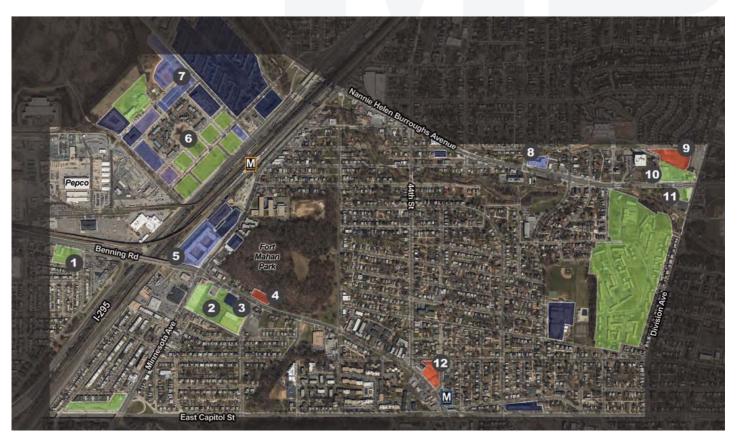


NEIGHBORHOOD DEVELOPMENT

MINNESOTA & BENNING

PROJECT STATUS

- Completed (2001–2012)Completed (2013–8/2017)
- Under Construction



Project boundaries are estimates (2015 Orthophoto, DC government)

ANCHORED BY TWO METRORAIL STATIONS this area of northeast DC is expected to see more than four million sq. ft. of development over the next 10 years. The 3.1 million sq. ft. Parkside Mixed-Use Development by City Interests is a multi-phased project that has already delivered 384 residential units with another 950 units and more than 550,000 sq. ft. of office space in the pipeline.

In addition, Cedar Realty Trust purchased the East River Park Shopping Center for \$39.0 million in 2016 and plans to redevelop the 150,000 sq. ft. center into 119,500 sq. ft. of retail space (anchored by a grocery store), 280 residential units and 33,000 sq. ft. of office space with a total of 622 parking spaces on multiple levels.

Finally, as part of the DC government's New Communities Initiative the Lincoln Heights and Richardson Dwellings neighborhoods, located on 28 acres near Division & Nannie Helen Burroughs Avenues, will be redeveloped as healthy mixed-income communities with 1,609 new housing units of varying types, a new mixed-use town center, and a new primary health care facility.

PIPELINE TOTALS	15 	4,043,757 6.986.680	70,290 380.030	904.336	3,020 5,223	198,916 231,260	\$1,056 \$1,713
			. ,			, , , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·
UNDER CONSTRUCTION	3	385.204	37.659	34.534	423	2.054	\$123
COMPLETED (2013-8/2017)	7	983,216	42,588	3,438	857	23,790	\$217
COMPLETED (2001-2012)	12	1,574,503	229,493	222,500	923	6,500	\$317
	PROJECTS	TOTAL SF	EDUCATION / MEDICAL SF	OFFICE SF	RESIDENTIAL UNITS		EST. VALUE (\$ MILLIONS)

NEIGHBORHOOD DEVELOPMENT: MINNESOTA & BENNING



Image courtesy of the Neighborhood Development Company



Image courtesy of Cedar Realty Trust











7. METROTOWNS AT PARKSIDE



8. NANNIE HELEN AT 4800



mage courtesy of The Warrenton Group





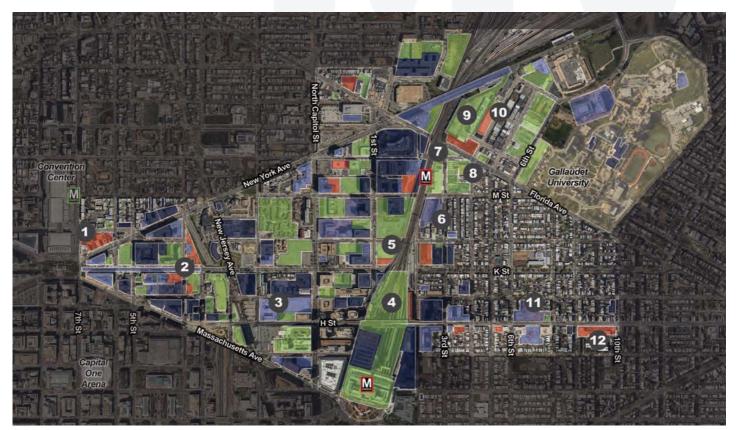


Image courtesy of SOME

MT. VERNON TRIANGLE / NOMA / UNION MARKET

PROJECT STATUS

- Completed (2001–2012)
- Completed (2013–8/2017)
- Under Construction
- Pipeline



Project boundaries are estimates (2015 Orthophoto, DC government)

AS DEVELOPMENT CONTINUES ITS EASTERN PUSH, areas of DC that were former parking lots or low-density industrial uses have given way to mixed-use developments and established new neighborhoods such as Mt. Vernon Triangle, NoMa, and Union Market.

Since 2001, 20.9 million sq. ft. of new buildings have been built or undergone significant renovation. This includes over 10,600 units of housing, 8.4 million sq. ft. of office space and 720,000 sq. ft. of retail space

in the area highlighted above. This investment has resulted in a 62% increase in residential population since 2010.

Even with all of this growth, there is 34.6 million sq. ft. of additional development still to come, including 4.8 million sq. ft. currently under construction. With an estimated 16,500 net new residential units coming to market over the next 10–15 years the area could conservatively see an additional 30,000 residents.

	PROJECTS	TOTAL SF	HOTEL ROOMS	OFFICE SF	RESIDENTIAL UNITS		EST. VALUE (\$ BILLIONS)
COMPLETED (2001-2012)	55	13,018,668	650	6,320,410	5,359	330,941	\$3.93
COMPLETED (2013-8/2017)	40	7,915,811	590	2,079,181	5,317	392,539	\$2.64
UNDER CONSTRUCTION	17	4,774,767		1,250,774	3,654	276,078	\$1.76
PIPELINE	58	29,833,044	2,258	8,041,015	13,901	948,079	\$7.50
TOTALS	170	55,542,290	3,498	17,691,380	28,231	1,947,637	\$15.83

1. Esri, 2017 estimates & projections

NEIGHBORHOOD DEVELOPMENT: MT. VERNON TRIANGLE / NOMA / UNION MARKET



Ilmage courtesy of Douglas Development



Image courtesy of The Wilkes Company





Image courtesy of Akridge



6. ULINE ARENA
Image courtesy of Douglas Development



Image courtesy of Trammell Crow



Image courtesy of Foulger-Prat



mage courtesy of Gensler



Image courtesy of EDENS



12. AVEC

Image courtesy of WC Smith







THE GOAL OF THE WASHINGTON DC ECONOMIC PARTNERSHIP was to create a comprehensive database of development activity that would help us find answers to the following questions:

- What is the make-up of development activity?
- Where is the development activity occurring?
- What are the trends?
- How much is being invested in our community?

However, before we could begin to collect development information we had to create a methodology to give us guidance on what data to assemble on each project and which projects to include in our database. For a detailed explanation of our methodology please visit www.wdcep.com.

While our database of projects is constantly being updated, for the purposes of this publication, all data reflects project status, design and information as of August 2017.

WHERE DO WE GET OUR INFORMATION?

To capture the most comprehensive inventory, we use a variety of sources to gather information about development activity, and whenever possible, we contact the developers directly to get the most up-to-date and accurate information available and do site location visits to verify the project's status. Often our research uncovers discrepancies in available data on project information such as square footage, cost, number of units, etc. When this occurs, we try to reconcile the differences by speaking directly with parties involved in the development. Some of our sources include:

PRIMARY SOURCES

- Architects
- Building Permit Data
- · Certificates of Occupancy
- Developers
- DC Office of Planning

- DC Office of the Deputy Mayor for Planning & Economic Development
- DC Office of the Chief Financial Officer
- · DC Office of Zoning
- General Contractors
- · Project Managers

SECONDARY SOURCES

- Brokers
- Business Improvement Districts
- Media & Newspapers
- Neighborhood
 Newsletters & Blogs

ADDING OR UPDATING INFORMATION

If you are looking for information about a specific project and you do not see it on our list, it may have been omitted for one of the following reasons.

- 1. IT DID NOT MEET THE \$5 MILLION THRESHOLD
- 2. WE ARE MISSING A KEY PIECE OF INFORMATION
- 3. WE HAVE QUESTIONS ABOUT THE VALIDITY OF THE DATA
- 4. WE MAY NOT KNOW ABOUT IT

To add or update a record in our database, please contact:

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The Washington DC Economic Partnership would like to thank the following organizations for their contributions to this year's DC Development Report.

11th Street Bridge Park

A&R Akridge

American University
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Architect of the Capitol

Armed Forces Retirement Home

Atelier Architects BELL Architects BISNOW

Bonstra | Haresign Architects

Boston Properties

Bozzuto

Blue Skye

Capitol Riverfront BID

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City Interests
Coakley Williams
Cohen Siegel Investors

Community Three Development

Cornerstone Development

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DBT Development

DC Curbed

DC Department of Consumer &

Regulatory Affairs

DC Department of Parks & Recreation

DC Housing Authority

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Douglas Development

DowntownDC BID

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Forest City

Forrester Construction

Fort Lincoln New Town Corporation

Foulger-Pratt Gensler

George Washington University

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