



VORNADO REALTY TRUST

Supplemental Fixed Income Data

For the Quarter Ended September 30, 2023











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Certain statements contained herein constitute forward-looking statements as such term is defined in Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements are not guarantees of performance. They represent our intentions, plans, expectations and beliefs and are subject to numerous assumptions, risks and uncertainties. Our future results, financial condition and business may differ materially from those expressed in these forward-looking statements. You can find many of these statements by looking for words such as "approximates," "believes," "expects," "anticipates," "estimates," "believes," "expects," "anticipates," "estimates," "believes," "anticipates," "estimates," "or other similar expressions in this supplemental package. We also note the following forward-looking statements: in the case of our development and redevelopment projects, the estimated completion date, estimated project cost, projected incremental cash yield. stabilization date and cost to complete: estimates of future capital expenditures, dividends to common and preferred shareholders and operating partnership distributions, including the form of any 2023 dividend payments, and the amount and form of potential share repurchases and/or asset sales. Many of the factors that will determine the outcome of these and our other forward-looking statements are beyond our ability to control or predict. Currently, some of the factors are the impacts of the increase in interest rates and inflation on our business, financial condition, results of operations, cash flows, operating performance and the effect that these factors have had and may continue to have on our tenants, the global, national, regional and local economies and financial markets and the real estate market in general. For further discussion of factors that could materially affect the outcome of our forward-looking statements, see "Item 1A. Risk Factors" in Part I of our Annual Report on Form 10-K for the year ended December 31, 2022. For these statements, we claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995. You are cautioned not to place undue reliance on our forward-looking statements, which speak only as of the date of this supplemental package. All subsequent written and oral forward-looking statements attributable to us or any person acting on our behalf are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. We do not undertake any obligation to release publicly any revisions to our forward-looking statements to reflect events or circumstances occurring after the date of this supplemental package. This supplemental package includes certain non-GAAP financial measures, which are accompanied by what Vornado Realty Trust and subsidiaries (the "Company") considers the most directly comparable financial measures calculated and presented in accordance with accounting principles generally accepted in the United States of America ("GAÁP"), including Earnings Before Interest, Taxes, Depreciation and Amortization for Real Estate ("EBITDAre"). Quantitative reconciliations of the differences between the most directly comparable GAAP financial measures and the non-GAAP financial measures presented are provided within this supplemental package. Definitions of these non-GAAP financial measures and statements of the reasons why management believes the non-GAAP measures provide useful information to investors about the Company's financial condition and results of operations, and, if applicable, the purposes for which management uses the measures, can be found in the Definitions section of this supplemental package on page ii in the Appendix.

This supplemental package should be read in conjunction with the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2023 and the Company's Supplemental Operating and Financial Data package for the quarter ended September 30, 2023, both of which can be accessed at the Company's website www.vno.com.



Third Quarter 2023 Financial Highlights

Net income attributable to common shareholders for the quarter ended September 30, 2023 was \$52,846,000, or \$0.28 per diluted share, compared to \$7,769,000, or \$0.04 per diluted share, for the prior year's quarter. Adjusting for the items that impact period-to-period comparability, net income attributable to common shareholders, as adjusted (non-GAAP) for the quarter ended September 30, 2023 was \$12,845,000, or \$0.07 per diluted share, and \$37,429,000, or \$0.19 per diluted share for the prior year's quarter.

EBITDAre, as adjusted (non-GAAP) for the guarter ended September 30, 2023 was \$271,027,000, compared to \$284,881,000 for the prior year's guarter.

Liquidity

As of September 30, 2023, we have \$3.2 billion of liquidity comprised of \$1.3 billion of cash and cash equivalents and restricted cash and \$1.9 billion available on our \$2.5 billion revolving credit facilities.

Active Development

As of September 30, 2023, we have expended \$1,044 million of cash with an estimated \$256 million remaining to be spent across PENN 1, PENN 2, and PENN districtwide improvements.

We have a 49.9% interest in a joint venture that is developing Sunset Pier 94 Studios (see below for details). As of September 30, 2023, we have funded \$7,994,000 of our estimated \$34,000,000 share of cash contributions to the project.

There can be no assurance that the above projects will be completed, completed on schedule or within budget. In addition, there can be no assurance that the Company will be successful in leasing the properties on the expected schedule or at the assumed rental rates.

2023 Business Developments

Sunset Pier 94 Studios Joint Venture

On August 28, 2023, we, together with Hudson Pacific Properties and Blackstone Inc., formed a joint venture ("Pier 94 JV") to develop a 266,000 square foot purpose-built studio campus at Pier 94 in Manhattan ("Sunset Pier 94 Studios"). In connection therewith:

- We contributed our Pier 94 leasehold interest to the joint venture in exchange for a 49.9% common equity interest and an initial capital account of \$47,944,000, comprised of (i) the \$40,000,000 value of our Pier 94 leasehold interest contribution and (ii) a \$7,944,000 credit for pre-development costs incurred. Hudson Pacific Properties ("HPP") and Blackstone Inc. (together, "HPP/BX") received an aggregate 50.1% common equity interest in Pier 94 JV and an initial capital account of \$22,976,000 in exchange for (i) a \$15,000,000 cash contribution upon the joint venture's formation and (ii) a \$7,976,000 credit for pre-development costs incurred. HPP/BX will fund 100% of cash contributions until such time that its capital account is equal to Vornado's, after which equity will be funded in accordance with each partner's respective ownership interest.
- The lease of Pier 94 with the City of New York was amended and restated to allow for the contribution to Pier 94 JV and to remove Pier 92 from the lease's demised premises. The amended and restated lease expires in 2060 with five 10-year renewal options.
- Pier 94 JV closed on a \$183,200,000 construction loan facility (\$100,000 outstanding as of September 30, 2023) which bears interest at SOFR plus 4.75% and matures in September 2025, with one one-year as-of-right extension option and two one-year extension options subject to certain conditions. VRLP and the other partners provided a joint and several completion guarantee.

The development cost of the project is estimated to be \$350,000,000, which will be funded with \$183,200,000 of construction financing (described above) and \$166,800,000 of equity contributions. Our share of equity contributions will be funded by (i) our \$40,000,000 Pier 94 leasehold interest contribution and (ii) \$34,000,000 of cash contributions, which are net of an estimated \$9,000,000 for our share of development fees and reimbursement for overhead costs incurred by us.

Upon contribution of the Pier 94 leasehold, we recognized a \$35,968,000 net gain primarily due to the step-up of our retained investment in the leasehold interest to fair value. The net gain was included in "net gains on disposition of wholly owned and partially owned assets" on our consolidated statements of income for the three and nine months ended September 30, 2023.



2023 Business Developments - continued

Dividends/Share Repurchase Program

On April 26, 2023, we announced the postponement of dividends on our common shares until the end of 2023, at which time, upon finalization of our 2023 taxable income, including the impact of asset sales, we will pay the 2023 dividend in either (i) cash, or (ii) a combination of cash and securities, as determined by our Board of Trustees. Cash retained from dividends or from asset sales will be used to reduce debt and/or to fund the share repurchase program discussed below.

We also announced that our Board of Trustees has authorized the repurchase of up to \$200,000,000 of our outstanding common shares under a newly established share repurchase program.

During the three months ended September 30, 2023, we repurchased 302,200 common shares for \$5,927,000 at an average price per share of \$19.61. In total, we have repurchased 2,024,495 common shares under the program at an average price per share of \$14.40. As of September 30, 2023, \$170,857,000 remained available and authorized for repurchases.

350 Park Avenue

On January 24, 2023, we and the Rudin family ("Rudin") completed agreements with Citadel Enterprise Americas LLC ("Citadel") and with an affiliate of Kenneth C. Griffin, Citadel's Founder and CEO ("KG"), for a series of transactions relating to 350 Park Avenue and 40 East 52nd Street.

Pursuant to the agreements, Citadel master leases 350 Park Avenue, a 585,000 square foot Manhattan office building, on an "as is" basis for ten years, with an initial annual net rent of \$36,000,000. Per the terms of the lease, no tenant allowance or free rent was provided. Citadel has also master leased Rudin's adjacent property at 40 East 52nd Street (390,000 square feet).

In addition, we entered into a joint venture with Rudin (the "Vornado/Rudin JV") which was formed to purchase 39 East 51st Street. Upon formation of the KG joint venture described below, 39 East 51st Street will be combined with 350 Park Avenue and 40 East 52nd Street to create a premier development site (collectively, the "Site"). On June 20, 2023, the Vornado/Rudin JV completed the purchase of 39 East 51st Street for \$40,000,000, which was funded on a 50/50 basis by Vornado and Rudin.

From October 2024 to June 2030, KG will have the option to either:

- acquire a 60% interest in a joint venture with the Vornado/Rudin JV that would value the Site at \$1.2 billion (\$900,000,000 to Vornado and \$300,000,000 to Rudin) and build a new 1,700,000 square foot office tower (the "Project") pursuant to East Midtown Subdistrict zoning with the Vornado/Rudin JV as developer. KG would own 60% of the joint venture and the Vornado/Rudin JV would own 40% (with Vornado owning 36% and Rudin owning 4% of the joint venture along with a \$250,000,000 preferred equity interest in the Vornado/Rudin JV).
 - at the joint venture formation, Citadel or its affiliates will execute a pre-negotiated 15-year anchor lease with renewal options for approximately 850,000 square feet (with expansion and contraction rights) at the Project for its primary office in New York City;
 - the rent for Citadel's space will be determined by a formula based on a percentage return (that adjusts based on the actual cost of capital) on the total Project cost:
 - the master leases will terminate at the scheduled commencement of demolition;
- or, exercise an option to purchase the Site for \$1.4 billion (\$1.085 billion to Vornado and \$315,000,000 to Rudin), in which case the Vornado/Rudin JV would not participate in the new development.

Further, the Vornado/Rudin JV will have the option from October 2024 to September 2030 to put the Site to KG for \$1.2 billion (\$900,000,000 to Vornado and \$300,000,000 to Rudin). For ten years following any put option closing, unless the put option is exercised in response to KG's request to form the joint venture or KG makes a \$200,000,000 termination payment, the Vornado/Rudin JV will have the right to invest in a joint venture with KG on the terms described above if KG proceeds with development of the Site.

Please refer to the *Appendix* for reconciliations of GAAP to non-GAAP measures.



2023 Business Developments - continued

Dispositions

Alexander's, Inc. ("Alexanders")

On May 19, 2023, Alexander's completed the sale of the Rego Park III land parcel, located in Queens, New York, for \$71,060,000, inclusive of consideration for Brownfield tax benefits and reimbursement of costs for plans, specifications and improvements to date. As a result of the sale, we recognized our \$16,396,000 share of the net gain and received a \$711,000 sales commission from Alexander's, of which \$250,000 was paid to a third-party broker.

The Armory Show

On July 3, 2023, we completed the sale of The Armory Show, located in New York, for \$24,410,000, subject to certain post-closing adjustments, and realized net proceeds of \$22,489,000. In connection with the sale, we recognized a net gain of \$20,181,000 which is included in "net gains on disposition of wholly owned and partially owned assets" on our consolidated statements of income.

Manhattan Retail Properties Sale

On August 10, 2023, we completed the sale of four Manhattan retail properties located at 510 Fifth Avenue, 148–150 Spring Street, 443 Broadway and 692 Broadway for \$100,000,000 and realized net proceeds of \$95,450,000. In connection with the sale, we recognized an impairment loss of \$625,000 which is included in "transaction related costs and other" on our consolidated statements of income.

Financing Activity

150 West 34th Street

On January 9, 2023, our \$105,000,000 participation in the \$205,000,000 mortgage loan on 150 West 34th Street was repaid, which reduced "other assets" and "mortgages payable, net" on our consolidated balance sheets by \$105,000,000.

On October 4, 2023, we completed a \$75,000,000 refinancing of 150 West 34th Street, of which \$25,000,000 is recourse to the Operating Partnership. The interest-only loan bears a rate of SOFR plus 2.15% and matures in February 2025, with three one-year as-of-right extension options and an additional one-year extension option available subject to satisfying a loan-to-value test. The interest rate on the loan is subject to an interest rate cap arrangement with a SOFR strike rate of 5.00%, which matures in February 2026. The loan replaces the previous \$100,000,000 loan, which bore interest at SOFR plus 1.86%.

697-703 Fifth Avenue (Fifth Avenue and Times Square JV)

On June 14, 2023, the Fifth Avenue and Times Square JV completed a restructuring of the 697-703 Fifth Avenue \$421,000,000 non-recourse mortgage loan, which matured in December 2022. The restructured \$355,000,000 loan, which had its principal reduced through an application of property-level reserves and funds from the partners, was split into (i) a \$325,000,000 senior note, which bears interest at SOFR plus 2.00%, and (ii) a \$30,000,000 junior note, which accrues interest at a fixed rate of 4.00%. The restructured loan matures in March 2028, as fully extended. Any amounts funded for future re-leasing of the property will be senior to the \$30,000,000 junior note.

512 West 22nd Street

On June 28, 2023, a joint venture, in which we have a 55% interest, completed a \$129,250,000 refinancing of 512 West 22nd Street, a 173,000 square foot Manhattan office building. The interest-only loan bears a rate of SOFR plus 2.00% in year one and SOFR plus 2.35% thereafter. The loan matures in June 2025 with a one-year extension option subject to debt service coverage ratio, loan-to-value and debt yield requirements. The loan replaces the previous \$137,124,000 loan that bore interest at LIBOR plus 1.85% and had an initial maturity of June 2023. In addition, the joint venture entered into the interest rate cap arrangement detailed in the table on the following page.

825 Seventh Avenue

On July 24, 2023, a joint venture, in which we have a 50% interest, completed a \$54,000,000 refinancing of the office condominium of 825 Seventh Avenue, a 173,000 square foot Manhattan office and retail building. The interest-only loan bears a rate of SOFR plus 2.75%, with a 30 basis point reduction available upon satisfaction of certain leasing conditions, and matures in January 2026. The loan replaces the previous \$60,000,000 loan that bore interest at LIBOR plus 2.35% and was scheduled to mature in July 2023.



2023 Business Developments - continued

Financing Activity - continued

Interest Rate Swap and Cap Arrangements

We entered into the following interest rate swap and cap arrangements during the nine months ended September 30, 2023. See page 11 for further information on our interest rate swap and cap arrangements:

(Amounts in thousands)		Notional Amount at share)	All-In Swapped Rate	Expiration Date	Variable Rate Spread
Interest rate swaps:					
555 California Street (effective 05/24)	\$	840,000	6.03%	05/26	S+205
Unsecured term loan ⁽¹⁾ (effective 10/23)		150,000	5.12%	07/25	S+129
Interest rate caps:			Index Strike Rate		
	\$	665.000	1.00%	11/25	S+162
1290 Avenue of the Americas (70.0% interest) (effective 11/23) ⁽²⁾	Ф	,			
One Park Avenue (effective 3/24)		525,000	3.89%	03/25	S+122
731 Lexington Avenue office condominium (32.4% interest)		162,000	6.00%	06/24	Prime + 0
640 Fifth Avenue (52.0% interest)		259,925	4.00%	05/24	S+111
512 West 22nd Street (55.0% interest)		71,088	4.50%	06/25	S+200

⁽¹⁾ In addition to the swap disclosed above, the unsecured term loan, which matures in December 2027, is subject to various interest rate swap arrangements that were entered into in prior periods. The table below summarizes the impact of the swap arrangements on the unsecured term loan.

	<u> </u>	Swapped Balance	All-In Swapped Rate	E (bea	swapped salance rs interest S+129)
Through 10/23	\$	800,000	4.04%	\$	_
10/23 through 07/25		700,000	4.52%		100,000
07/25 through 10/26		550,000	4.35%		250,000
10/26 through 08/27		50,000	4.03%		750,000

(2) In connection with the arrangement, we made a \$63,100 up-front payment, of which \$18,930 is attributable to noncontrolling interests.



Leasing Activity:

The leasing activity and related statistics below are based on leases signed during the period and are not intended to coincide with the commencement of rental revenue in accordance with GAAP. Second generation relet space represents square footage that has not been vacant for more than nine months and tenant improvements and leasing commissions are based on our share of square feet leased during the period.

For the Three Months Ended September 30, 2023

236,000 square feet of New York Office space (190,000 square feet at share) at an initial rent of \$93.33 per square foot and a weighted average lease term of 7.9 years. The changes in the GAAP and cash mark-to-market rent on the 176,000 square feet of second generation space were negative 0.3% and negative 2.5%, respectively. Tenant improvements and leasing commissions were \$12.87 per square foot per annum, or 13.8% of initial rent.

29,000 square feet of New York Retail space (21,000 square feet at share) at an initial rent of \$373.28 per square foot and a weighted average lease term of 8.4 years. The changes in the GAAP and cash mark-to-market rent on the 9,000 square feet of second generation space were positive 31.3% and positive 33.5%, respectively. Tenant improvements and leasing commissions were \$26.02 per square foot per annum, or 7.0% of initial rent.

68,000 square feet at THE MART (63,000 square feet at share) at an initial rent of \$54.71 per square foot and a weighted average lease term of 5.2 years. The changes in the GAAP and cash mark-to-market rent on the 40,000 square feet of second generation space were negative 9.0% and negative 10.4%, respectively. Tenant improvements and leasing commissions were \$10.46 per square foot per annum, or 19.1% of initial rent.

For the Nine Months Ended September 30, 2023

1,292,000 square feet of New York Office space (1,186,000 square feet at share) at an initial rent of \$97.99 per square foot and a weighted average lease term of 9.5 years. The changes in the GAAP and cash mark-to-market rent on the 1,027,000 square feet of second generation space were positive 7.3% and positive 1.6%, respectively. Tenant improvements and leasing commissions were \$5.66 per square foot per annum, or 5.8% of initial rent.

259,000 square feet of New York Retail space (200,000 square feet at share) at an initial rent of \$116.03 per square foot and a weighted average lease term of 5.6 years. The changes in the GAAP and cash mark-to-market rent on the 113,000 square feet of second generation space were positive 17.0% and positive 15.4%, respectively. Tenant improvements and leasing commissions were \$19.01 per square foot per annum, or 16.4% of initial rent.

176,000 square feet at THE MART (171,000 square feet at share) at an initial rent of \$55.87 per square foot and a weighted average lease term of 5.7 years. The changes in the GAAP and cash mark-to-market rent on the 112,000 square feet of second generation space were negative 5.9% and negative 9.8%, respectively. Tenant improvements and leasing commissions were \$8.49 per square foot per annum, or 15.2% of initial rent.

10,000 square feet at 555 California Street (7,000 square feet at share) at an initial rent of \$134.70 per square foot and a weighted average lease term of 5.9 years. The changes in the GAAP and cash mark-to-market rent on the 4,000 square feet of second generation space were positive 12.8% and positive 2.4%, respectively. Tenant improvements and leasing commissions were \$22.92 per square foot per annum, or 17.0% of initial rent.



UNSECURED NOTES COVENANT RATIOS AND CREDIT RATINGS (unaudited)

		As of							
Unsecured Notes Covenant Ratios ⁽¹⁾	Required	September 30, 2023	June 30, 2023	March 31, 2023	December 31, 2022				
Total outstanding debt/total assets ⁽²⁾	Less than 65%	50%	49%	50%	48%				
Secured debt/total assets	Less than 50%	33%	33%	33%	32%				
Interest coverage ratio (annualized combined EBITDA to annualized interest expense)	Greater than 1.50	2.17	2.30	2.24	2.29				
Unencumbered assets/unsecured debt	Greater than 150%	319%	320%	340%	342%				

Consolidated Unencumbered EBITDA ⁽¹⁾ (non-GAAP):	 Q3 2023 Annualized
New York	\$ 276,968
Other	95,456
Total	\$ 372,424

Credit Ratings ⁽³⁾ :	Rating	Outlook
Moody's	Baa3	Negative
S&P	BBB-	Negative
Fitch	BB+	Stable

⁽¹⁾ Our debt covenant ratios and consolidated unencumbered EBITDA are computed in accordance with the terms of our senior unsecured notes. The methodology used for these computations may differ significantly from similarly titled ratios and amounts of other companies. For additional information regarding the methodology used to compute these ratios and amounts, please see our filings with the SEC of our senior debt indentures and applicable prospectuses and prospectus supplements.

⁽²⁾ Total assets include EBITDA capped at 7.0% per the terms of our senior unsecured notes covenants.

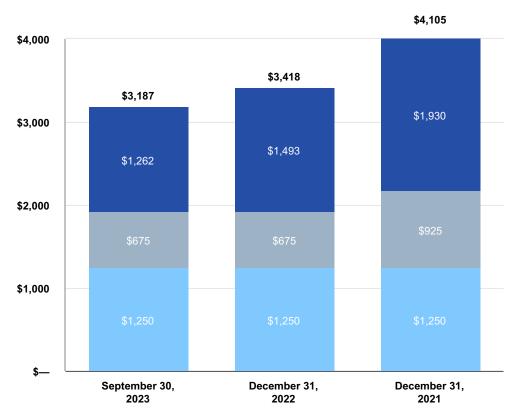
⁽³⁾ Credit ratings are provided for informational purposes only and are not a recommendation to buy or sell our securities.



LIQUIDITY AND CAPITALIZATION (unaudited)

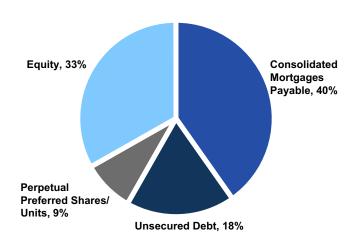
(Amounts in millions, except per share amounts)

Liquidity Snapshot(1)



Cash, cash equivalents, restricted cash and investments in U.S. Treasury bills
Balance available on \$1.25 billion revolving credit facility (matures 2027 as fully extended)
Balance available on \$1.25 billion revolving credit facility (matures 2026 as fully extended)

Company Capitalization (excluding our pro rata share of nonconsolidated entities) as of September 30, 2023



Company capitalization ⁽²⁾ :	Am	ount	% Total			
Consolidated mortgages payable (at 100%)	\$	5,758	40%			
Unsecured debt (contractual)		2,575	18%			
Perpetual preferred shares/units		1,223	9%			
Equity ⁽³⁾		4,750	33%			
Total	1	4,306	100%			
Pro rata share of debt of non- consolidated entities		2,655				
Less: Noncontrolling interests' share of consolidated debt		(682)				
Total at share	\$ 1	6,279				

⁽¹⁾ Prior to June 30, 2022, the \$1.25 billion revolving credit facility maturing in 2027, as fully extended, had full capacity of \$1.5 billion.

⁽²⁾ The debt balances presented represent contractual debt balances. See reconciliation on page iv in the *Appendix* of consolidated debt, net as presented on our consolidated balance sheets to consolidated contractual debt as of September 30, 2023.

⁽³⁾ Based on the Vornado Realty Trust (NYSE: VNO) September 30, 2023 guarter end closing common share price of \$22.68.



NET DEBT TO EBITDAre, AS ADJUSTED (unaudited)

(Amounts in millions)								
	Trailing	of and For the g Twelve Months I September 30,		As of and	For th	ne Year Ended Decen	1,	
		2023	2022			2021		2020
Secured debt	\$	5,758	\$	5,878	\$	6,099	\$	5,608
Unsecured debt		2,575		2,575		2,575		1,825
Pro rata share of debt of non-consolidated entities		2,655		2,697		2,700		2,873
Less: Noncontrolling interests' share of consolidated debt		(682)		(682)		(682)		(483)
Company's pro rata share of total debt	\$	10,306	\$	10,468	\$	10,692	\$	9,823
% Unsecured debt		25%		25%		24%		19%
Company's pro rata share of total debt	\$	10,306	\$	10,468	\$	10,692	\$	9,823
Less: Cash and cash equivalents and investments in U.S. Treasury bills		(1,000)		(1,362)		(1,760)		(1,624)
Less: Escrowed cash included within restricted cash on our balance sheet		(208)		(94)		(131)		(77)
Less: Pro rata share of unconsolidated partially owned entities' cash and cash equivalents and escrowed cash		(297)		(316)		(291)		(283)
Plus: Noncontrolling interests' share of cash and cash equivalents, escrowed cash and investments in U.S. Treasury bills		93		94		110		51
Less: Participation in 150 West 34th Street mortgage loan		_		(105)		(105)		(105)
Less: Projected cash proceeds from 220 Central Park South		(80)		(90)		(148)		(275)
Net debt	\$	8,814	\$	8,595	\$	8,367	\$	7,510
EBITDAre, as adjusted (non-GAAP)	\$	1,095	\$	1,091	\$	949	\$	910
Net debt / EBITDAre, as adjusted (non-GAAP)		8.0 x		7.9 x		8.8 x		8.3 x
	_							

See page ii in the Appendix for definitions of EBITDAre and net debt to EBITDAre, as adjusted. See reconciliation of net income (loss) to EBITDAre on page v in the Appendix and reconciliation of EBITDAre, as adjusted on page vi in the Appendix.

DEBT SNAPSHOT (unaudited)

(Amounts	ın	millione	1
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(unconto in miniono)					As of Septer	mber 30, 2023				
		To	otal		Var	iable		Fixed		
(Contractual debt balances)	Weighted Average Amount Interest Rate		Amount		Weighted Average Interest Rate	Amount		Weighted Average Interest Rate		
Consolidated debt ⁽¹⁾	\$	8,333	4.19%	\$	2,189	5.87%	\$	6,144	3.59%	
Pro rata share of debt of non-consolidated entities		2,655	5.37%		1,454	6.61%		1,201	3.87%	
Total		10,988	4.47%		3,643	6.16%		7,345	3.64%	
Less: Noncontrolling interests' share of consolidated debt (primarily 1290 Avenue of the Americas and 555 California Street)		(682)			(682)			_		
Company's pro rata share of total debt	\$	10,306	4.34%	\$	2,961	6.08%	\$	7,345	3.64%	

As of September 30, 2023, \$1,995 of variable rate debt (at share) is subject to interest rate cap arrangements, the \$966 of variable rate debt not subject to interest rate cap arrangements represents 9% of our total pro rata share of debt. See the following page for details.

⁽¹⁾ See reconciliation on page iv in the Appendix of consolidated debt, net as presented on our consolidated balance sheets to consolidated contractual debt as of September 30, 2023.



HEDGING INSTRUMENTS AS OF SEPTEMBER 30, 2023 (unaudited)

(Amounts in thousands)		г	Debt Information	1		Swap / Cap Information								
	Balanc Shar			Variable Rate Spread		Notional Amount at Share	Expiration Date	All-In Swapped Rate	ation					
Interest Rate Swaps:						<u>, </u>								
Consolidated:														
555 California Street mortgage loan														
In-place swap	\$ 8	40,000	05/28	S+205	\$	840,000	05/24	2.29%						
Forward swap (effective 05/24)							05/26	6.03%						
770 Broadway mortgage loan	7	00,000	07/27	S+225		700,000	07/27	4.98%						
PENN 11 mortgage loan	5	00,000	10/25	S+206		500,000	03/24	2.22%						
Unsecured revolving credit facility	5	75,000	12/27	S+114		575,000	08/27	3.87%						
Unsecured term loan	8	00,000	12/27	S+129		800,000 (2)	10/23	4.04%						
100 West 33rd Street mortgage loan	4	80,000	06/27	S+165		480,000	06/27	5.06%						
888 Seventh Avenue mortgage loan	2	63,400	12/25	S+180		200,000	09/27	4.76%						
4 Union Square South mortgage loan	1	20,000	08/25	S+150		98,650	01/25	3.74%						
Unconsolidated:		,				,								
731 Lexington Avenue - retail condominium mortgage loan		97,200	08/25	S+151		97,200	05/25	1.76%						
50-70 West 93rd Street mortgage loan		41,667	12/24	S+164		41,168	06/24	3.14%						
	\$ 4,4	17,267				4,332,018								
Interest Rate Caps:														
•								Index Strike Rate	Cash Interest Rate ⁽³⁾	Effective Interest Rate ⁽⁴⁾				
Consolidated:								Kale	Rate	Kale				
1290 Avenue of the Americas mortgage loan														
In-place cap	\$ 6	65,000	11/28	S+162		665,000	11/23	3.89%	5.51%	5.56%				
Forward cap (effective 11/23)	_						11/25	1.00%	2.62%	5.94%				
One Park Avenue mortgage loan		25,000	03/26	S+122		525,000	03/25	3.89%	5.11%	6.09%				
150 West 34th Street mortgage loan ⁽⁵⁾		00,000	05/24	S+186		100,000	05/24	4.10%	5.96%	6.72%				
606 Broadway mortgage loan		37,060	09/24	S+191		37,060	09/24	4.00%	5.91%	5.95%				
Unconsolidated:	_													
640 Fifth Avenue mortgage loan		59,925	05/24	S+111		259,925	05/24	4.00%	5.11%	6.03%				
731 Lexington Avenue - office condominium mortgage loan		62,000	06/24	Prime+0		162,000	06/24	6.00%	6.00%	8.46%				
61 Ninth Avenue mortgage loan		75,543	01/26	S+146		75,543	02/24	4.39%	5.85%	6.02%				
512 West 22nd Street mortgage loan		71,088	06/25	S+200		71,088	06/25	4.50%	6.50%	7.16%				
Rego Park II mortgage loan		65,624	12/25	S+145		65,624	11/24	4.15%	5.60%	6.28%				
Fashion Centre Mall/Washington Tower mortgage loan		34,125 95,365	05/26	S+305		34,125 1,995,365 ⁽⁶⁾	05/24	3.89%	6.94%	6.98%				
Fixed rate debt per loan agreements						3,012,690								
Variable rate debt not subject to interest rate swaps or caps						966,152 ⁽⁶⁾								
					•									
Total debt at share					3	10,306,225								

⁽¹⁾ Assumes the exercise of as-of-right extension options.

See page 6 for details of interest rate hedging arrangements entered into during 2023.

⁽²⁾ The unsecured term loan is subject to various interest rate swap arrangements during the term. See page 6 for details.

³⁾ Equals the sum of (i) the index rate in effect as of the most recent contractual reset date, adjusted for hedging instruments, and (ii) the contractual spread.

⁽⁴⁾ Equals the sum of (i) the cash interest rate and (ii) the effect of amortization of the interest rate cap premium over the term.

⁵⁾ On October 4, 2023, we entered into a 5.00% interest rate cap arrangement in connection with the \$75,000 refinancing of 150 West 34th Street. See page 5 for details.

⁽⁶⁾ Our exposure to SOFR index increases is partially mitigated by an increase in interest income on our cash, cash equivalents and restricted cash.

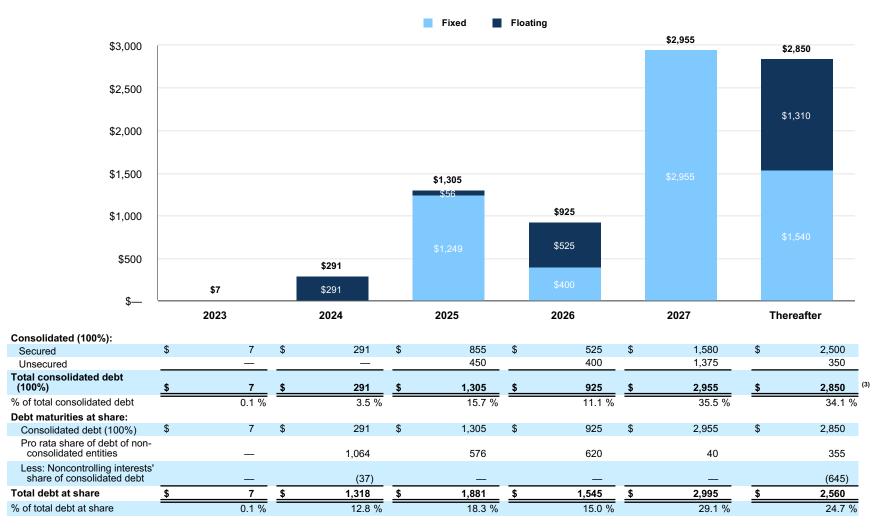


CONSOLIDATED DEBT MATURITIES (CONTRACTUAL BALANCES) (unaudited)

(Amounts in millions)

Consolidated Debt Maturity Schedule⁽¹⁾ as of September 30, 2023 (Excludes pro rata share of JV debt)⁽²⁾





Assumes the exercise of as-of-right extension options. Debt classified as fixed rate includes the effect of interest rate swap arrangements which may expire prior to debt maturity. See the previous page for information on interest rate swap arrangements.

Vornado Realty L.P. guarantees \$800 of JV partnership debt comprised of the \$300 mortgage loan on 7 West 34th Street and the \$500 mortgage loan on 640 Fifth Avenue included in the Fifth Avenue and Times Square JV. This \$800 is excluded from the schedule presented above.

Of the \$1,310 floating rate debt expiring after 2027, \$645 is attributable to noncontrolling interests.



CONSOLIDATED DEBT MATURITIES AT 100% (CONTRACTUAL BALANCES) (unaudited)

(Amounts in thousands)														
Property	Maturity Date ⁽¹⁾	Spread over SOFR	Interest Rate ⁽²⁾		2023		2024	2025	2026	2027		Thereafter		Total
Secured Debt:														
435 Seventh Avenue	02/24	S+141	6.74%	\$	_	\$	95,696	\$ _	\$ _	\$ -	-	\$ —	\$	95,696
150 West 34th Street ⁽³⁾	05/24	S+186	5.96%		_		100,000	_	_	_	-	_		100,000
606 Broadway (50.0% interest)	09/24	S+191	5.91%		_		74,119	_	_	_	-	_		74,119
4 Union Square South	08/25		4.29%		_		_	120,000	_	_	-	_		120,000
PENN 11	10/25		2.22%		_		_	500,000	_	_	-	_		500,000
888 Seventh Avenue	12/25		5.33%		7,200		21,600	234,600	_	_	-	_		263,400
One Park Avenue	03/26	S+122	5.11%		_		_	_	525,000	_	-	_		525,000
350 Park Avenue	01/27		3.92%		_		_	_	_	400,000)	_		400,000
100 West 33rd Street	06/27		5.06%		_		_	_	_	480,000)	_		480,000
770 Broadway	07/27		4.98%		_		_	_	_	700,000)	_		700,000
555 California Street (70.0% interest)	05/28		3.82%		_		_	_	_	_	-	1,200,000	1	1,200,000
1290 Avenue of the Americas (70.0% interest)	11/28	S+162	5.51%		_		_	_	_	_	-	950,000		950,000
909 Third Avenue	04/31		3.23%		_		_	_	_	_	-	350,000		350,000
Total Secured Debt					7,200		291,415	854,600	525,000	1,580,000)	2,500,000	Ę	5,758,215
Unsecured Debt:														
Senior unsecured notes due 2025	01/25		3.50%		_		_	450,000	_	_	-	_		450,000
\$1.25 Billion unsecured revolving credit facility	04/26	S+119 ⁽⁴⁾	0.00%		_		_	_	_	_	-	_		_
Senior unsecured notes due 2026	06/26		2.15%		_		_	_	400,000	_	-	_		400,000
\$1.25 Billion unsecured revolving credit facility	12/27		3.87% ⁽⁴		_		_	_	_	575,000)	_		575,000
\$800 Million unsecured term loan	12/27		4.04% ⁽⁴)	_		_	_	_	800,000)	_		800,000
Senior unsecured notes due 2031	06/31		3.40%				_	 _	 			350,000		350,000
Total Unsecured Debt							_	450,000	 400,000	1,375,000)	350,000		2,575,000
Total Debt				\$	7,200	\$	291,415	\$ 1,304,600	\$ 925,000	\$ 2,955,000)	\$2,850,000	\$ 8	8,333,215
Weighted average rate					7.13%	=	6.29%	 3.37%	3.83%	4.38%	<u>. </u>	4.26%		4.19%
Fixed rate debt ⁽⁵⁾				\$	_	\$	_	\$ 1,248,650	\$ 400,000	\$ 2,955,000)	\$1,540,000	\$ 6	6,143,650
Fixed weighted average rate expiring					0.00%		0.00%	3.21%	2.15%	4.38%	ó	2.76%		3.59%
Floating rate debt				\$	7,200	\$	291,415	\$ 55,950	\$ 525,000	\$ —	-	\$1,310,000	\$ 2	2,189,565
Floating weighted average rate expiring					7.13%		6.29%	7.02%	5.11%	0.00%	δ	6.02%		5.87%

⁽¹⁾ Assumes the exercise of as-of-right extension options.

⁽²⁾ Represents the interest rate in effect as of period end based on the appropriate reference rate as of the contractual reset date plus contractual spread, adjusted for hedging instruments, as applicable. See page 11 for information on interest rate swap and interest rate cap arrangements.

⁽³⁾ On October 4, 2023, we completed a \$75,000 refinancing of 150 West 34th Street. See page 5 for details.

⁽⁴⁾ Reflects a 0.01% interest rate reduction that we qualified for by achieving certain sustainability key performance indicator (KPI) metrics. We must achieve the KPI metrics annually in order to receive the interest rate reduction.

⁽⁵⁾ Debt classified as fixed rate includes the effect of interest rate swap arrangements which may expire prior to debt maturity. See page 11 for information on interest rate swap arrangements.



TOP 15 TENANTS (unaudited)

(Amounts in thousands, except square feet)

Tenants	Square Footage At Share	Annualized Escalated Rents At Share ⁽¹⁾	% of Total Annualized Escalated Rents At Share
Meta Platforms, Inc.	1,451,153	\$ 168,694	9.3 %
IPG and affiliates	967,552	64,495	3.6 %
Citadel	585,460	62,498	3.5 %
New York University	685,290	48,890	2.7 %
Google/Motorola Mobility (guaranteed by Google)	759,446	41,129	2.2 %
Bloomberg L.P.	306,768	40,685	2.2 %
Equitable Financial Life Insurance Company	335,356	36,383	2.0 %
Amazon (including its Whole Foods subsidiary)	312,694	30,516	1.7 %
Swatch Group USA	11,957	28,560	1.6 %
Neuberger Berman Group LLC	306,612	28,220	1.5 %
Madison Square Garden & Affiliates	408,031	27,357	1.5 %
AMC Networks, Inc.	326,717	26,261	1.4 %
Bank of America	247,459	25,229	1.4 %
LVMH Brands	65,060	25,152	1.4 %
Apple Inc.	412,434	24,077	1.3 %
			37.3 %

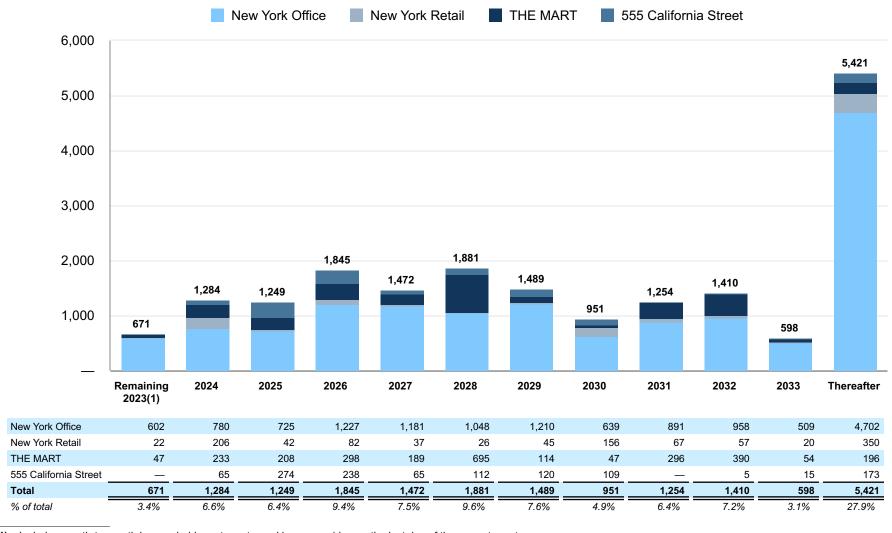
⁽¹⁾ Represents monthly contractual base rent before free rent plus tenant reimbursements multiplied by 12. Annualized escalated rents at share include leases signed but not yet commenced in place of current tenants or vacancy in the same space.



LEASE EXPIRATIONS (unaudited)

(Amounts in thousands)

Our Share of Square Feet of Expiring Leases As of September 30, 2023



⁽¹⁾ Includes month-to-month leases, holdover tenants, and leases expiring on the last day of the current quarter.



DEVELOPMENT/REDEVELOPMENT - ACTIVE PROJECTS

(Amounts in thousands, except square feet)

New York segment: PENN District:	Property Rentable Sq. Ft.		Budget	_	ash Amount Expended	Remaining Expenditures		Stabilization Year	Projected Incremental Cash Yield
PENN 2 - as expanded	1,795,000	\$	750,000	\$	582,671	\$	167,329	2025	9.5%
PENN 1 (including LIRR Concourse Retail) ⁽¹⁾	2,558,000		450,000		415,663		34,337	N/A	13.2% ⁽¹⁾⁽²⁾
Districtwide Improvements	N/A		100,000		45,490		54,510	N/A	N/A
Total PENN District			1,300,000 (3))	1,043,824		256,176		10.1%
Sunset Pier 94 Studios (49.9% interest) ⁽⁴⁾	266,000		125,000 (4))	7,994		117,006	2026	10.3%
Total Active Development Projects		\$	1,425,000	\$	1,051,818	\$	373,182		

⁽¹⁾ Property is ground leased through 2098, as fully extended. Fair market value resets occur in 2023, 2048 and 2073. The 13.2% projected return is before the ground rent reset in June 2023, which has yet to be determined and may be material.

There can be no assurance that the above projects will be completed, completed on schedule or within budget. In addition, there can be no assurance that the Company will be successful in leasing the properties on the expected schedule or at the assumed rental rates.

⁽²⁾ Projected to be achieved as pre-redevelopment leases roll, which have an approximate average remaining term of 3.5 years.

⁽³⁾ Excluding debt and equity carry.

⁽⁴⁾ Represents our 49.9% share of the \$350,000 development budget and excludes the \$40,000 value of our contributed leasehold interest. \$34,000 will be funded via cash contributions. See page 3 for further details.



APPENDIX

DEFINITIONS AND NON-GAAP RECONCILIATIONS



FIXED INCOME SUPPLEMENTAL DEFINITIONS

The fixed income supplement includes various non-GAAP financial measures. Descriptions of these non-GAAP measures are provided below. Reconciliations of these non-GAAP measures to the most directly comparable GAAP measures are provided within this supplemental package.

EBITDAre - EBITDAre (i.e., EBITDA for real estate companies) is a non-GAAP financial measure established by the National Association of Real Estate Investment Trusts ("NAREIT"), which may not be comparable to EBITDA reported by other REITs that do not compute EBITDAre in accordance with the NAREIT definition. NAREIT defines EBITDAre as GAAP net income or loss, plus interest expense, plus income tax expense, plus depreciation and amortization, plus (minus) losses and gains on the disposition of depreciated property including losses and gains on change of control, plus impairment write-downs of depreciated property and of investments in unconsolidated entities caused by a decrease in value of depreciated property in the joint venture, plus adjustments to reflect the entity's share of EBITDA of unconsolidated entities. The Company has included EBITDAre because it is a performance measure used by other REITs and therefore may provide useful information to investors in comparing Vornado's performance to that of other REITs.

Net Debt to EBITDAre, as adjusted - Net debt to EBITDAre, as adjusted represents the ratio of net debt to annualized EBITDAre, as adjusted. Net debt is calculated as (i) the Company's consolidated debt less noncontrolling interests' share of consolidated debt plus the Company's pro rata share of debt of unconsolidated entities less (ii) the Company's consolidated cash and cash equivalents, cash held in escrow and investments in U.S. Treasury bills less noncontrolling interests' share of these amounts plus the Company's pro rata share of these amounts for unconsolidated entities. Cash held in escrow represents cash escrowed under loan agreements including for debt service, real estate taxes, property insurance, and capital improvements, and the Company is not able to direct the use of this cash. The availability of cash and cash equivalents for use in debt reduction cannot be assumed, as the Company may use its cash and cash equivalents for other purposes. Further, the Company may not be able to direct the use of its pro rata share of cash and cash equivalents of unconsolidated entities. The Company discloses net debt to EBITDAre, as adjusted because management believes it is useful to investors as a supplemental measure in evaluating the Company's balance sheet leverage. Net debt to EBITDAre, as adjusted may not be comparable to similarly titled measures employed by other companies.



NON-GAAP RECONCILIATIONS
RECONCILIATION OF NET INCOME ATTRIBUTABLE TO COMMON SHAREHOLDERS TO NET INCOME ATTRIBUTABLE TO COMMON SHAREHOLDERS, AS ADJUSTED (unaudited)

(Amounts in thousands, except per share amounts)										
	F	or the Three	ths Ended	For the Nine Months Ended						
		Septem	ber	30,	September 30,					
		2023	2022	2023		2022				
Net income attributable to common shareholders	\$	52,846	\$	7,769	\$	104,391	\$	84,665		
Per diluted share	\$	0.28	\$	0.04	\$	0.54	\$	0.44		
Certain (income) expense items that impact net income attributable to common shareholders:										
Net gain on contribution of Pier 94 leasehold interest to joint venture	\$	(35,968)	\$	_	\$	(35,968)	\$	_		
After-tax net gain on sale of The Armory Show		(17,076)		_		(17,076)		_		
Deferred tax liability on our investment in The Farley Building (held through a taxable REIT subsidiary)		3,115		3,776		8,196		10,183		
Our share of Alexander's, Inc. ("Alexander's") gain on sale of Rego Park III land parcel		_		_		(16,396)		_		
After-tax net gain on sale of 220 Central Park South ("220 CPS") condominium units and ancillary amenities		_		_		(6,173)		(6,085)		
Other		5,954		28,090		48		19,784		
		(43,975)		31,866		(67,369)		23,882		
Noncontrolling interests' share of above adjustments		3,974		(2,206)		6,224		(1,895)		
Total of certain (income) expense items that impact net income attributable to common shareholders		(40,001)		29,660		(61,145)		21,987		
Net income attributable to common shareholders, as adjusted (non-GAAP)	\$	12,845	\$	37,429	\$	43,246	\$	106,652		
Per diluted share (non-GAAP)	\$	0.07	\$	0.19	\$	0.22	\$	0.56		



NON-GAAP RECONCILIATIONS
RECONCILIATION OF CONSOLIDATED DEBT, NET TO CONSOLIDATED CONTRACTUAL DEBT (unaudited)

	As of September 30, 2023								
		Consolidated Debt, Net	Deferred Financing Costs, Net and Other			Consolidated Contractual Debt			
Mortgages payable	\$	5,714,761	\$	43,454	\$	5,758,215			
Senior unsecured notes		1,193,362		6,638		1,200,000			
\$800 Million unsecured term loan		794,212		5,788		800,000			
\$2.5 Billion unsecured revolving credit facilities		575,000		<u> </u>		575,000			
	\$	8,277,335	\$	55,880	\$	8,333,215			



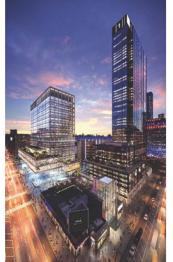
NON-GAAP RECONCILIATIONS
RECONCILIATION OF NET INCOME (LOSS) TO EBITDAre (unaudited)

		F					the Trailing elve Months Ended	For the Year Ended December 31,								
			2023		2022	Se	ptember 30, 2023		2022		2021		2020			
R	econciliation of net income (loss) to EBITDAre (non-GAAP):						_									
	Net income (loss)	\$	59,570	\$	20,112	\$	(391,501)	\$	(382,612)	\$	207,553	\$	(461,845)			
	Less net loss (income) attributable to noncontrolling interests in consolidated subsidiaries		13,541		3,792		36,743		5,737		(24,014)		139,894			
	Net income (loss) attributable to the Operating Partnership		73,111		23,904		(354,758)		(376,875)		183,539		(321,951)			
	EBITDAre adjustments at share:															
	Depreciation and amortization expense		125,988		156,985		528,196		593,322		526,539		532,298			
	Interest and debt expense		114,424		98,358		455,521		362,321		297,116		309,003			
	Net (gain) loss on sale of real estate		(56,150)		6		(103,352)		(58,920)		(15,675)		_			
	Income tax expense (benefit)		12,267		4,151		29,789		23,404		(9,813)		36,253			
	Real estate impairment losses		625		_		596,113		595,488		7,880		645,346			
	EBITDAre at share		270,265		283,404		1,151,509		1,138,740		989,586		1,200,949			
	EBITDAre attributable to noncontrolling interests in consolidated subsidiaries		10,619		14,449		60,699		71,786		75,987		(91,155)			
	EBITDAre (non-GAAP)	\$	280,884	\$	297,853	\$	1,212,208	\$	1,210,526	\$	1,065,573	\$	1,109,794			



NON-GAAP RECONCILIATIONS
RECONCILIATION OF EBITDAre TO EBITDAre, AS ADJUSTED (unaudited)

	F	or the Three Septem			For the Trailing led Twelve Months Ended			For the	ber 3	oer 31,		
		2023 2022		2022		September 30, 2023		2022	2021		2020	
EBITDAre (non-GAAP)	\$	280,884	\$	297,853	\$	1,212,208	\$	1,210,526	\$ 1,065,573	\$	1,109,794	
EBITDAre attributable to noncontrolling interests in consolidated subsidiaries		(10,619)		(14,449)		(60,699)		(71,786)	(75,987)		91,155	
Certain (income) expense items that impact EBITDAre:												
Our share of (income) loss from real estate fund investments		(480)		(201)		(278)		(1,671)	(3,757)		63,114	
Net gains on disposition of wholly owned and partially owned assets		_		_		(18,390)		(17,372)	(643)		_	
Gain on sale of 220 CPS condominium units and ancillary amenities		_		_		(42,364)		(41,874)	(50,318)		(381,320)	
Hotel Pennsylvania loss		_		_		_		_	11,625		31,139	
Other		1,242		1,678		4,049		12,741	2,483		(3,589)	
Total of certain expense (income) items that impact EBITDAre		762		1,477		(56,983)		(48,176)	(40,610)		(290,656)	
EBITDAre, as adjusted (non-GAAP)	\$	271,027	\$	284,881	\$	1,094,526	\$	1,090,564	\$ 948,976	\$	910,293	





VORNADO REALTY TRUST

Supplemental Fixed Income Data

For the Quarter Ended September 30, 2023







