

# Gainesville Police and Fire Pension Fund

## Executive Summary

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November 15, 2023

# Discussion Agenda

- Market and Performance Review
- Appendix

# Market and Performance Review

# Capital Markets Review

As of September 30, 2023

Global equities fell during the third quarter primarily due to rising interest rates and the slowing of world economies. The Fed's decision to prolong higher rates provided a harsh outlook for investors.

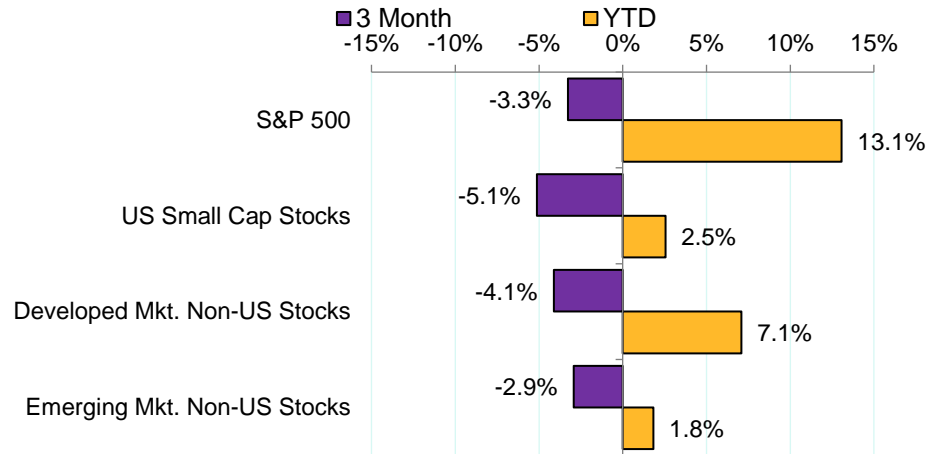
- The S&P 500 returned -3.3% during Q3. Growth stocks performed in line with value stocks during the quarter
- Two out of eleven U.S. economic sectors reported gains in Q3 with Energy (+12.2%) as the top performer. Utilities (-9.2%) and REITs (-8.9%) were the bottom performers.
- Emerging market returns were -2.9% despite the initial strong start for the quarter.

The **U.S. fixed income** markets declined during the quarter as rates increased substantially

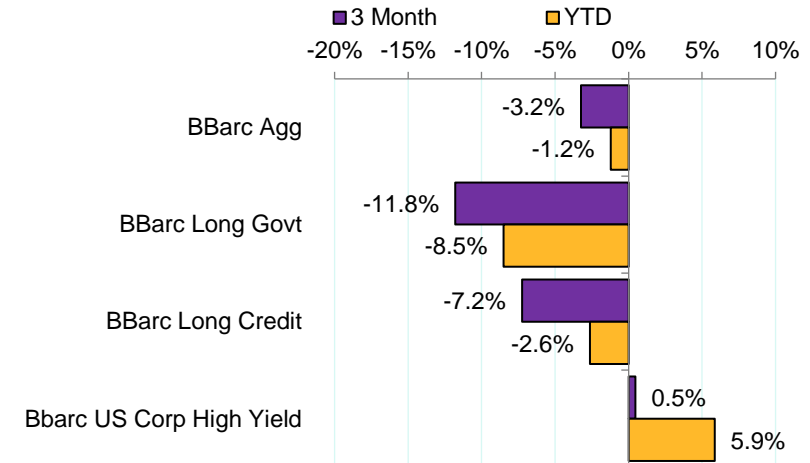
- The yield of the U.S. 10-year Treasury note ended the quarter at 4.6%, an increase from 3.8% at the end of Q2.
- In the U.S., the annual change in CPI-U ended the quarter at 3.7%, compared to 3.0% at the end of Q2 2023 and 6.5% at the beginning of the year.
- The Fed raised interest rates once during Q3, with a 25-basis-point increase in July. However, the Fed did not raise interest rates in September but did share their intentions of keeping rates high while signaling future rate hikes are still on the table.

# Capital Markets Review: September 2023

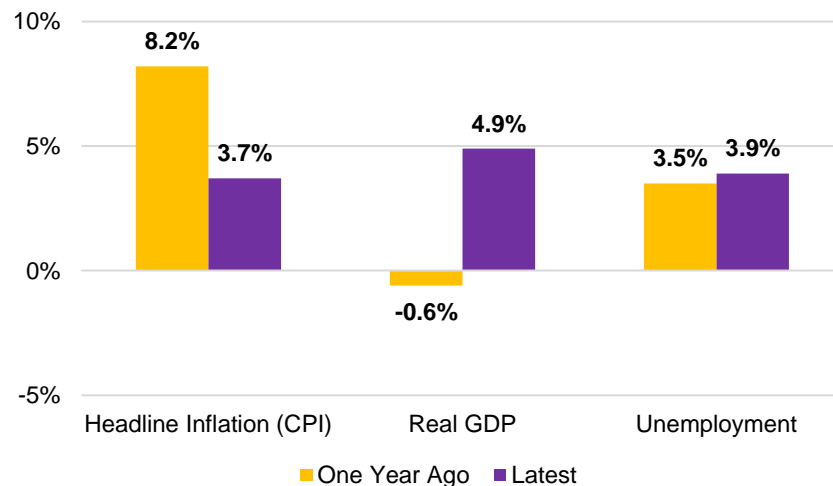
## Equity Markets



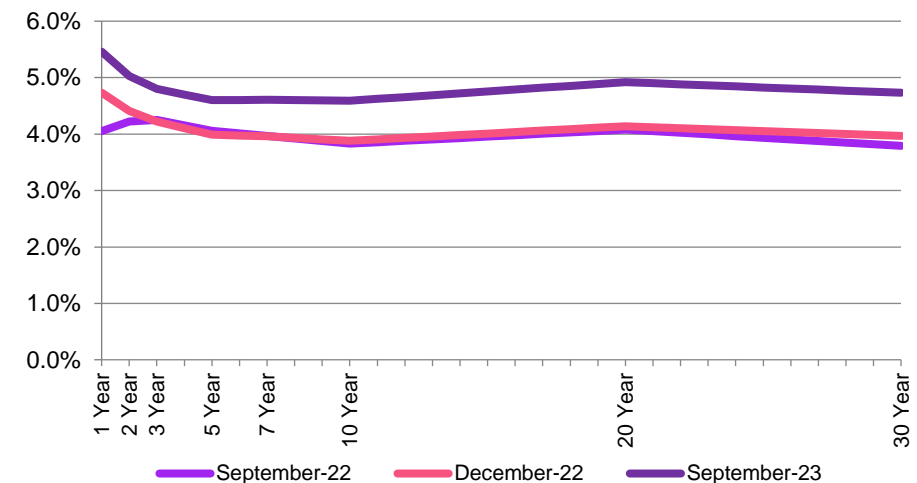
## Fixed Income Markets



## US Economic Data



## Treasury Yield Curve

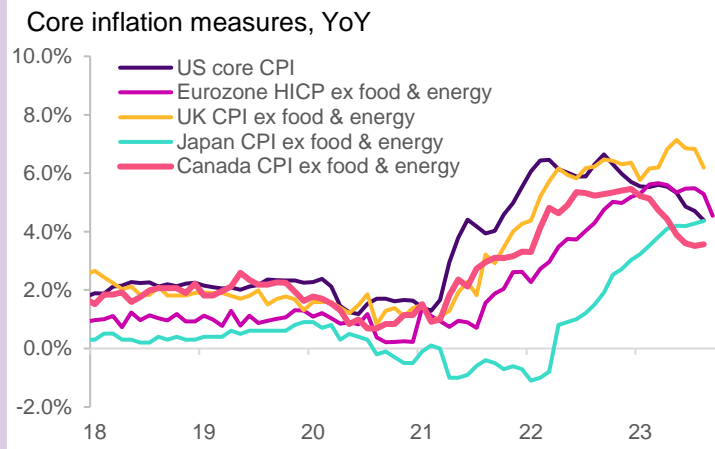


# Economic and market outlook

- Despite the market volatility in Q3, our outlook remains effectively unchanged
- If anything, the market and economic events of the last quarter have bolstered the need for a scenario framework
- We fundamentally continue to remain cautious on the economic outlook

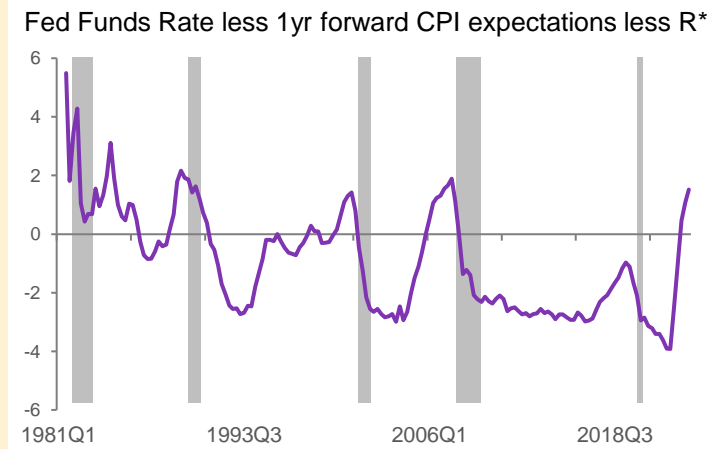
## Inflation

Inflation is falling globally (except in Japan), but is it falling quickly enough?



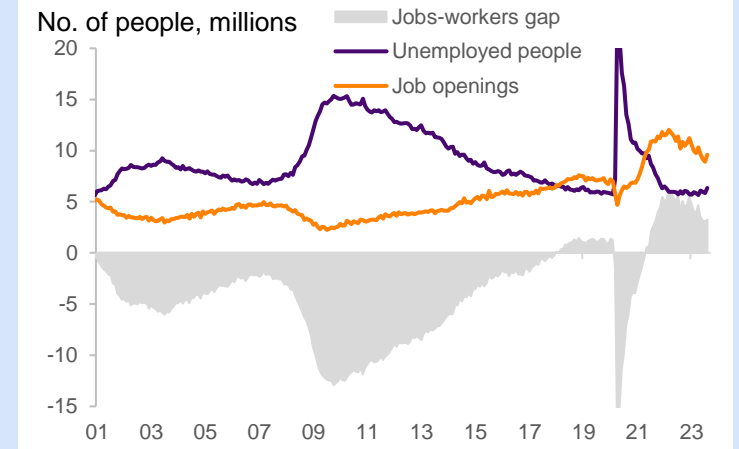
## Monetary Policy

Forward rate expectations have repriced towards “higher for longer”; we believe US real policy rates are currently restrictive



## Labor Market

Job-workers gap continues to close gradually, but markets reacted poorly to a positive surprise in August US job openings



Sources: WTW, FactSet, Brevan Howard, Oxford Economics, Federal Reserve Bank of Philadelphia, Federal Reserve Bank of New York

# Economic and market outlook

Uncertainty: the one certainty (along with death) (and taxes)

**The past quarter has really highlighted the sources of risk and question marks in global markets and the global economy:**

- 1. Geopolitical** – Russia-Ukraine, Israel-Hamas, China
- 2. Political** – we went three weeks without a Speaker; we've got a potential government shutdown, 12 months until a presidential election
- 3. Labor** – auto workers, Kaiser Permanente, screen actors, writers, pharmacists
- 4. Financial** – US 10-year breached 5% yield level, equities in correction territory, US corporate defaults/delinquencies ticking up

***Do you have confidence that the market is accurately pricing in all of these risks today?***

We continue to emphasize that diversification with downside protection and active management in portfolios is the best way to maximize the chance of investment success

# Plan Structure and Net Performance

## Gainesville Police & Fire Pension Plan

As of September 30, 2023

	Market Value (\$)	% of Portfolio	Policy (%)	1 Mo. (%)	3 Mo. (%)	YTD (%)	1 Yr. (%)	3 Yr. (%)	5 Yr. (%)	10 Yr. (%)	Inception (%)	Inception Date
<b>Total Plan</b>	<b>290,402,593</b>	<b>100.0</b>	<b>100.0</b>	<b>-3.4</b>	<b>-2.5</b>	<b>7.5</b>	<b>15.7</b>	<b>6.6</b>	<b>5.8</b>	<b>7.9</b>	<b>9.2</b>	<b>Apr-88</b>
<i>Policy Benchmark</i>				-3.4	-2.9	5.0	11.1	5.6	5.9	7.5	8.8	
<b>Total Plan ex Overlay</b>	<b>287,113,680</b>	<b>98.9</b>	<b>100.0</b>	<b>-3.4</b>	<b>-2.4</b>	<b>7.3</b>	<b>15.0</b>	<b>6.8</b>	<b>5.7</b>	<b>7.7</b>	<b>-</b>	<b>Mar-09</b>
<i>Policy Benchmark</i>				-3.4	-2.9	5.0	11.1	5.6	5.9	7.5	10.4	
<b>Growth Segment</b>	<b>178,237,361</b>	<b>61.4</b>	<b>70.0</b>	<b>-4.6</b>	<b>-3.6</b>	<b>9.6</b>	<b>21.6</b>	<b>8.4</b>	<b>6.8</b>	<b>8.9</b>	<b>13.3</b>	<b>Mar-09</b>
<i>Growth Segment Benchmark</i>				-4.5	-3.8	8.3	18.3	-	-	-	-	
<b>Domestic Equity Segment</b>	<b>124,751,625</b>	<b>43.0</b>	<b>50.0</b>	<b>-5.1</b>	<b>-3.1</b>	<b>11.1</b>	<b>21.8</b>	<b>11.0</b>	<b>7.9</b>	<b>10.4</b>	<b>10.7</b>	<b>Apr-88</b>
<i>Russell 3000 Index</i>				-4.8	-3.3	12.4	20.5	9.4	9.1	11.3	10.5	
<b>Large Cap Equity Segment</b>	<b>82,192,676</b>	<b>28.3</b>	<b>0.0</b>	<b>-4.6</b>	<b>-3.1</b>	<b>9.8</b>	<b>20.3</b>	<b>9.3</b>	<b>8.4</b>	<b>10.4</b>	<b>7.9</b>	<b>Apr-07</b>
<i>Russell 1000 Index</i>				-4.7	-3.1	13.0	21.2	9.5	9.6	11.6	9.0	
<b>LSV Large Cap Equity</b>	<b>25,764,899</b>	<b>8.9</b>	<b>-</b>	<b>-2.7</b>	<b>-2.1</b>	<b>1.8</b>	<b>16.5</b>	<b>13.7</b>	<b>6.2</b>	<b>9.3</b>	<b>9.6</b>	<b>Sep-03</b>
<i>Russell 1000 Value Index</i>				-3.9	-3.2	1.8	14.4	11.1	6.2	8.4	8.1	
<b>Vanguard S&amp;P 500 Index Fund</b>	<b>32,031,500</b>	<b>11.0</b>	<b>-</b>	<b>-4.8</b>	<b>-3.3</b>	<b>13.1</b>	<b>21.6</b>	<b>10.2</b>	<b>9.9</b>	<b>11.9</b>	<b>12.6</b>	<b>Oct-12</b>
<i>S&amp;P 500 Index</i>				-4.8	-3.3	13.1	21.6	10.2	9.9	11.9	12.6	
<b>Sustainable Growth Advisors</b>	<b>24,396,277</b>	<b>8.4</b>	<b>-</b>	<b>-6.2</b>	<b>-3.8</b>	<b>14.5</b>	<b>21.8</b>	<b>2.7</b>	<b>-</b>	<b>-</b>	<b>9.3</b>	<b>Sep-19</b>
<i>Russell 1000 Growth Index</i>				-5.4	-3.1	25.0	27.7	8.0	12.4	14.5	14.4	
<b>Small Cap Equity Segment</b>	<b>42,558,949</b>	<b>14.7</b>	<b>0.0</b>	<b>-6.0</b>	<b>-3.2</b>	<b>13.3</b>	<b>24.3</b>	<b>14.4</b>	<b>6.5</b>	<b>10.0</b>	<b>9.4</b>	<b>Apr-07</b>
<i>Russell 2000 Index</i>				-5.9	-5.1	2.5	8.9	7.2	2.4	6.6	6.4	
<b>LSV Small Cap Equity</b>	<b>21,325,024</b>	<b>7.3</b>	<b>-</b>	<b>-4.0</b>	<b>-0.1</b>	<b>4.7</b>	<b>19.5</b>	<b>21.1</b>	<b>4.8</b>	<b>8.5</b>	<b>10.0</b>	<b>Jul-01</b>
<i>Russell 2000 Value Index</i>				-5.2	-3.0	-0.5	7.8	13.3	2.6	6.2	7.5	
<b>Disciplined Growth Investors</b>	<b>21,233,925</b>	<b>7.3</b>	<b>-</b>	<b>-7.6</b>	<b>-5.8</b>	<b>22.2</b>	<b>28.8</b>	<b>8.3</b>	<b>6.8</b>	<b>10.8</b>	<b>11.6</b>	<b>Jun-97</b>
<i>Russell 2000 Growth Index</i>				-6.6	-7.3	5.2	9.6	1.1	1.6	6.7	6.4	
<b>International Equity Segment</b>	<b>53,485,736</b>	<b>18.4</b>	<b>20.0</b>	<b>-3.2</b>	<b>-4.7</b>	<b>5.8</b>	<b>20.9</b>	<b>1.1</b>	<b>3.6</b>	<b>4.4</b>	<b>4.9</b>	<b>May-07</b>
<i>MSCI AC World ex USA (Net)</i>				-3.2	-3.8	5.3	20.4	3.7	2.6	3.3	2.2	
<b>Mawer International Equity Fund</b>	<b>53,485,736</b>	<b>18.4</b>	<b>-</b>	<b>-3.2</b>	<b>-4.7</b>	<b>5.8</b>	<b>20.9</b>	<b>1.1</b>	<b>3.6</b>	<b>-</b>	<b>6.0</b>	<b>Dec-15</b>
<i>MSCI AC World ex USA (Net)</i>				-3.2	-3.8	5.3	20.4	3.7	2.6	3.3	4.7	

Note:

- The Policy Index is currently a composite of 70% Growth Segment / 30% Income Segment benchmarks.
- The Risk Equivalent Benchmark is currently a composite of 75% MSCI ACWI Index and 25% Bloomberg Barclays Aggregate Index.



# Plan Structure and Net Performance

## Gainesville Police & Fire Pension Plan

As of September 30, 2023

	Market Value (\$)	% of Portfolio	Policy (%)	1 Mo. (%)	3 Mo. (%)	YTD (%)	1 Yr. (%)	3 Yr. (%)	5 Yr. (%)	10 Yr. (%)	Inception (%)	Inception Date
<b>Income Segment</b>	<b>108,876,319</b>	<b>37.5</b>	<b>30.0</b>	<b>-0.6</b>	<b>0.1</b>	<b>2.3</b>	<b>2.3</b>	<b>5.5</b>	<b>4.8</b>	<b>5.1</b>	<b>-</b>	<b>Mar-09</b>
<i>Income segment benchmark</i>				<i>-0.3</i>	<i>-0.3</i>	<i>-1.7</i>	<i>-3.3</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	
Commingled Cash	6,702,637	2.3	-	0.0	0.3	2.6	3.7	1.4	1.3	0.8	0.6	Apr-09
<b>Alternative Credit</b>	<b>43,093,749</b>	<b>14.8</b>	<b>15.0</b>	<b>0.0</b>	<b>1.7</b>	<b>6.9</b>	<b>8.7</b>	<b>5.1</b>	<b>4.0</b>	<b>-</b>	<b>3.5</b>	<b>Feb-18</b>
<i>Alternative Credit Benchmark</i>				<i>-0.3</i>	<i>1.3</i>	<i>5.9</i>	<i>8.9</i>	<i>2.3</i>	<i>3.3</i>	<i>-</i>	<i>2.8</i>	
Ares US High Yield Fund	7,518,325	2.6	-	-1.2	0.7	6.2	8.7	1.9	3.3	-	3.3	Mar-18
<i>ICE BofA US High Yield Master II Constrained Index</i>				<i>-1.2</i>	<i>0.5</i>	<i>6.0</i>	<i>10.2</i>	<i>1.8</i>	<i>2.8</i>	<i>4.2</i>	<i>3.0</i>	
1Sharpe Opportunity Fund	18,985,043	6.5	-	0.7	2.3	7.1	8.9	7.0	6.9	-	6.9	Jul-18
<i>3-Mo T-Bills + 1%</i>				<i>0.5</i>	<i>1.6</i>	<i>4.6</i>	<i>5.8</i>	<i>2.8</i>	<i>2.8</i>	<i>2.1</i>	<i>2.8</i>	
LibreMax Value Fund	9,554,723	3.3	-	0.7	3.0	8.8	7.7	9.0	-	-	2.1	Dec-18
<i>3 Month LIBOR + 4%</i>				<i>0.8</i>	<i>2.4</i>	<i>7.0</i>	<i>9.3</i>	<i>6.3</i>	<i>6.1</i>	<i>5.5</i>	<i>6.1</i>	
BNYM NSL EfficientBeta Fallen Angels Fund	7,035,659	2.4	-	-1.9	-0.4	4.4	8.8	-	-	-	-1.8	Feb-21
<i>Bimbg. U.S. High Yield - 2% Issuer Cap</i>				<i>-1.2</i>	<i>0.5</i>	<i>5.9</i>	<i>10.3</i>	<i>1.8</i>	<i>2.9</i>	<i>4.2</i>	<i>-0.5</i>	
<b>Real Estate Segment</b>	<b>59,079,932</b>	<b>20.3</b>	<b>15.0</b>	<b>-1.1</b>	<b>-1.4</b>	<b>-1.9</b>	<b>-3.3</b>	<b>9.1</b>	<b>7.4</b>	<b>9.5</b>	<b>7.9</b>	<b>Feb-05</b>
<i>Real Estate Segment Index</i>				<i>-0.7</i>	<i>-2.1</i>	<i>-8.4</i>	<i>-13.1</i>	<i>6.7</i>	<i>5.4</i>	<i>8.1</i>	<i>8.1</i>	
Principal US Property	13,339,576	4.6	-	-2.5	-3.7	-8.1	-13.6	6.8	5.7	8.7	7.5	Feb-05
<i>NCREIF ODCE (Equal-weighted) Net</i>				<i>-0.7</i>	<i>-2.1</i>	<i>-8.4</i>	<i>-13.1</i>	<i>6.7</i>	<i>5.2</i>	<i>7.5</i>	<i>6.3</i>	
Harrison Street Core Property Fund	15,777,020	5.4	-	-1.9	-1.9	-1.8	-2.2	7.3	-	-	7.2	Aug-19
<i>NCREIF ODCE (Equal-weighted) Net</i>				<i>-0.7</i>	<i>-2.1</i>	<i>-8.4</i>	<i>-13.1</i>	<i>6.7</i>	<i>5.2</i>	<i>7.5</i>	<i>5.2</i>	
Harrison Street Social Infrastructure	15,463,336	5.3	-	1.1	1.1	4.0	6.5	-	-	-	6.7	Jul-22
<i>NCREIF ODCE (Equal-weighted) Net</i>				<i>-0.7</i>	<i>-2.1</i>	<i>-8.4</i>	<i>-13.1</i>	<i>6.7</i>	<i>5.2</i>	<i>7.5</i>	<i>-10.1</i>	
Nuveen US Cities Industrial Fund	14,500,000	5.0	-	0.0	-	-	-	-	-	-	-	Sep-03
<i>NCREIF Fund Index-ODCE (EW) (Net)</i>				<i>-2.1</i>	<i>-2.1</i>	<i>-8.4</i>	<i>-13.1</i>	<i>6.7</i>	<i>5.2</i>	<i>7.5</i>	<i>6.7</i>	
<b>Parametric</b>	<b>3,288,913</b>	<b>1.1</b>	<b>0.0</b>									

Note:

- The Policy Index is currently a composite of 70% Growth Segment / 30% Income Segment benchmarks.
- The Risk Equivalent Benchmark is currently a composite of 75% MSCI ACWI Index and 25% Bloomberg Barclays Aggregate Index.

# Appendix

# Manager Scorecard

As of September 30, 2023

Performance Target<sup>1</sup>

WTW  
Ratings

✓ Achieved target

	Absolute Performance (%)	Relative Performance (%)	vs Peer Group Median <sup>2</sup>	Key investment professional changes	SAM / Preferred	Watch List Issue Date	Notes
<b>Total Plan</b>	<b>6.6</b>	<b>1.0</b>	✓				
<i>Policy Benchmark</i>	5.6						
<b>Large Cap Equity Segment</b>	9.3	-0.2	x				
LSV Large Cap Equity	13.7	2.7	✓	No	High	---	
Vanguard S&P 500 Index Fund	10.2	0.0	✓	No	Preferred	---	Monitor to ensure tracking error remains within expectations.
Sustainable Growth Advisors	2.7	-5.3	x	No	Preferred	---	
<b>Small Cap Equity Segment</b>	14.4	7.2	✓				
LSV Small Cap Equity	21.1	7.8	✓	No	High	---	
Disciplined Growth Investors	8.3	7.2	✓	No	High	---	
<b>International Equity Segment</b>	1.1	-2.6	x				
Mawer International Equity	1.1	-2.6	x	No	Preferred	---	
<b>Alternative Credit</b>	5.1	2.8	---				
Ares US High Yield Fund	1.9	0.1	x	No	Preferred	---	
1Sharpe Opportunity Fund, Ltd.	7.0	4.2	---	No	Preferred	---	
Libremax Value Fund	9.0	2.7	---	No	Preferred	---	
BNYM Fallen Angels	---	---	---	No	Preferred	---	
<b>Real Estate Segment</b>	9.1	2.4	---				
Principal US Property	6.8	0.1	---	No	NR	---	
Harrison Street Core Property	7.3	0.6	---	No	Preferred	---	
Harrison Street Social Infrastructure	---	---	---	No	Preferred	---	
Nuveen US Cities Industrial Fund	--	---	---	No	Preferred	---	

Note: All numbers are preliminary and subject to change.

Note: Changes in SAM/Preferred ratings, since last quarter, are shown in blue.

Note: The Real Estate Segment index was of the NCREIF Property Index up until July 1, 2013 and the NCREIF ODCE Index (Equal-Weighted) thereafter. Returns for NCREIF have been estimated.

<sup>1</sup> Excess Performance is the manager's gross return relative to their respective benchmark index.

<sup>2</sup> reflects 9/30/2023 Peer Group medians.

<sup>3</sup> Information is not shown due to unavailability of a comparable universe.

# Summary of Investment Strategies

Approved by CBOT - Income Strategies

Asset / Manager	Asset Class	Description	Role in Portfolio	Estimated Fees
High yield bonds <b>Ares</b>	Credit Strategies- Alternative Credit	US market high yield corporate credit; unsecured creditor in companies, fixed coupons	Diversification with high income profile; expanded opportunity set which allows skilled manager to potentially add value	0.35%
U.S. Residential Bridge Loans <b>1Sharpe</b>	Credit Strategies- Alternative Credit- Opportunistic Structured Credit	Strategy is focused on US single family residential bridge loans. These are business purpose loans made to borrowers seeking to acquire, renovate and sell the property for a profit.	Highly fragmented market with operational complexity and small balance lending provides barriers to entry; creating opportunities for specialized lenders to generate strong risk adjusted returns.	0.60%
Opportunistic Structured Credit <b>LibreMax</b>	Private Markets- Less Liquid Credit	High conviction, fundamental long-bias structured credit fund. The Fund seeks to achieve a high performance target through a concentrated portfolio of investments and active trading in sub-investment grade structured credit opportunities.	Opportunistic investment approach on more inefficient and complex segments of securitized credit and as early movers, capturing added illiquidity and complexity premia. Strategy seeks to earn returns in excess of public equity markets; providing an overall increase to the Plan's expected return profile.	0.55%
High Yield Bonds <b>Mellon Investments</b>	Credit Strategies- Alternative Credit	Smart beta strategy that uses a multi-factor model to invest in the US fallen angels universe, which are high yield bonds which were previously rated investment grade and have been downgraded to non-investment grade.	Higher quality than the broader HY universe with similar beta. Can offer better risk-adjusted returns vs. broad HY by capturing positive price momentum around credit rating downgrades and upgrades ('the fallen angels effect').	0.13%

The allocation is intended to provide diversity relative to public equity markets targeting and equity beta of less than 0.6, while producing strong risk adjusted returns.

# Summary of Investment Strategies

Approved by CBOT - Income Strategies

Asset / Manager	Asset Class	Description	Role in Portfolio	Estimated Fees
Direct Real Estate <b>Harrison Street</b>	Real Assets	Direct investment in property types typically left out of core real estate portfolios: Education, Healthcare and Storage real estate	Diversifies traditional core real estate exposure given greater income profile (as component of total return) & distribution yield	1.15%
Social Infrastructure <b>Harrison Street</b>	Real Assets	Fund invests in small- to mid-market opportunities focused on the Education, Healthcare, Government, and Utility (“EHGU”) real asset segment in North America (primarily U.S.)	Diversifies traditional core real estate exposures to “needs-based” institutions and assets that are non-cyclical	IM: 0.82% Perf: 15% over 7% hard hurdle
Industrial Real Estate <b>Nuveen</b>	Real Assets	Fund acquires and manages well-located, income generating institutional quality industrial properties in the U.S.	Diversifies traditional core real estate exposures with investment in structural trends in industries that benefit from urbanization and supply chain modernization	0.75%

# Parametric Asset Allocation

As of November 2, 2023

	Value	% of Overlay
Parametric Account Value	3,149,497	11.17 %
Required Initial Margin	1,076,826	3.82 %
Variation Margin Available	2,072,671	7.35 %

## Fund Exposure Summary

	Actual Target	Adjusted Target	Physical Exposure	Physical Deviation From Target	Overlay Exposure	Total Exposure	Total Exposure Deviation From Target	Rebalance Trigger
Domestic Equity	144,773,166	N/A	121,487,792	-23,285,374	24,611,180	146,098,972	1,325,806	11,581,853
International Equity	57,909,267	N/A	53,485,736	-4,423,531	3,819,705	57,305,441	-603,826	-4,632,741
Fixed Income: Diversified Credit	57,909,267	N/A	44,015,018	-13,894,249	13,458,609	57,473,627	-435,640	-4,632,741
Real Estate	28,954,633	N/A	59,272,987	30,318,354	-31,251,977	28,021,011	-933,623	-2,316,371
Cash	0	N/A	11,284,800	11,284,800	-10,637,517	647,282	647,282	
	<b>289,546,333</b>	<b>N/A</b>	<b>289,546,333</b>	<b>0</b>	<b>0</b>	<b>289,546,333</b>	<b>0</b>	

Note: Parametric Overlay program inception date was 3/27/2015.

Note: Parametric physical exposure may not match current balances in this report as Parametric may be using preliminary asset values.

# Parametric Asset Allocation

As of November 2, 2023

## Gain/Loss Summary

Investment Instrument Name	Daily Gain/Loss	Month to Date Gain/Loss	Year to Date Gain/Loss	Inception to Date Gain/Loss
<b>Equity Index Futures</b>				
Russell 2000 Mini Futures (RTA)	0	0	0	237,343
Russell 2000 Mini Futures (RTY)	48,730	57,530	-11,096	595,112
S&P 500 Mini Futures (ES)	255,200	395,200	828,224	7,707,523
S&P Midcap 400 Mini Futures (FA)	0	0	0	254,672
	<b>303,930</b>	<b>452,730</b>	<b>817,128</b>	<b>8,794,650</b>
<b>Currency</b>				
Canadian Dollar	-202	-176	280	4,784
	<b>-202</b>	<b>-176</b>	<b>280</b>	<b>4,784</b>
<b>Cash</b>				
US Dollar	0	0	121,374	461,210
	<b>0</b>	<b>0</b>	<b>121,374</b>	<b>461,210</b>
<b>Cash Equivalents</b>				
B 02/13/20	0	0	0	4,893
B 02/28/19	0	0	0	5,376
B 04/12/18	0	0	0	5,649
B 05/04/17	0	0	0	3,033
B 08/06/20	0	0	0	4,052
B 08/22/19	0	0	0	6,484
B 09/06/18	0	0	0	7,243
B 10/12/17	0	0	0	982
B 10/19/17	0	0	0	4,166
B 11/10/16	0	0	0	519
	<b>0</b>	<b>0</b>	<b>0</b>	<b>42,397</b>
<b>Currency Futures</b>				
Canadian Dollar (CD)	2,010	1,770	-4,540	-92,795
	<b>2,010</b>	<b>1,770</b>	<b>-4,540</b>	<b>-92,795</b>
<b>Fixed Income Futures</b>				
T-Bond 20Y Futures (US)	0	0	0	-27,994
T-Note 10Y Futures (TY)	-8,750	-18,375	-10,356	-436,021
T-Note 2Y Futures (TU)	563	-6,469	520	-301,104
T-Note 5Y Futures (FV)	-6,344	-19,688	-4,636	-580,200
US Ultra 10Y Bond Futures (UXY)	-6,188	-10,688	878	-151,829
	<b>-20,719</b>	<b>-55,219</b>	<b>-13,594</b>	<b>-1,497,148</b>
<b>International Equity Index Futures</b>				
MSCI EAFE Mini Futures (MFS)	49,250	73,500	-64,648	-572,670
MSCI EM Mini Futures (MES)	19,320	30,120	-116,200	-456,673
S&P/TSX 60 Futures (PT)	5,090	6,775	440	67,310
	<b>73,660</b>	<b>110,395</b>	<b>-180,407</b>	<b>-962,033</b>
<b>Total</b>	<b>358,679</b>	<b>509,500</b>	<b>740,241</b>	<b>6,751,063</b>

Notes: Overlay Program Inception to Date Gain/Loss includes exposure during International Equity transition (~ \$846.1k)  
 Parametric Overlay program inception date was 3/27/2015.  
 Parametric physical exposure may not match current balances in this report as Parametric may be using preliminary asset values

# Benchmark Definitions

## ■ Growth and Income Segments

- The Growth Segment is a beginning of period weighted average of the Domestic Equity and International Equity Segments.
- The Income Segment is a beginning of period weighted average of the Fixed Income, Alternative Credit, and Real Estate segments.

Total Plan		
5/1/2021	Present	70% Growth Segment Benchmark / 30% Income segment benchmark
2/1/2021	4/30/2021	50% Russell 3000 / 20% MSCI ACWI ex USA / 20% Alternative Credit Benchmark / 10% NCREIF ODCE (Equal-weighted) Net
9/1/2019	1/31/2021	50% Russell 3000 / 20% MSCI ACWI ex USA / 17.5% Alternative Credit Benchmark / 2.5% Bloomberg US Govt Int TR / 10% NCREIF ODCE (Equal-weighted) Net
4/1/2019	8/31/2019	50% Russell 3000 / 20% MSCI ACWI ex USA / 15% Alternative Credit Benchmark / 2.5% Bloomberg US Govt Int TR / 2.5% Bloomberg US TIPS TR / 10% NCREIF ODCE (Equal-weighted) Gross
2/1/2018	3/31/2019	50% Russell 3000 / 20% MSCI ACWI ex USA / 7.5% ICE BofAML US HY Master II Constrained / 7.5% S&P Leveraged Loan / 2.5% Bloomberg US Govt Int TR / 2.5% Bloomberg US TIPS TR / 10% NCREIF ODCE (Equal-weighted) Gross
7/1/2013	1/31/2018	50% Russell 3000 / 20% MSCI ACWI ex USA / 7.5% Bloomberg US Govt/Credit TR / 15% 3-Mo T-Bills + 4% / 7.5% NCREIF ODCE (Equal-weighted) Gross
1/1/2010	6/30/2013	50% Russell 3000 / 20% MSCI ACWI ex USA / 7.5% Bloomberg US Govt/Credit TR / 15% 3-Mo T-Bills + 4% / 7.5% NCREIF Property Index
4/1/1988	12/31/2009	100% Policy Benchmark (history)
Total Plan ex Overlay		
5/1/2021	Present	70% Growth Segment Benchmark / 30% Income segment benchmark
2/1/2021	4/30/2021	50% Russell 3000 / 20% MSCI ACWI ex USA / 20% Alternative Credit Benchmark / 10% NCREIF ODCE (Equal-weighted) Net
9/1/2019	1/31/2021	50% Russell 3000 / 20% MSCI ACWI ex USA / 17.5% Alternative Credit Benchmark / 2.5% Bloomberg US Govt Int TR / 10% NCREIF ODCE (Equal-weighted) Net
4/1/2019	8/31/2019	50% Russell 3000 / 20% MSCI ACWI ex USA / 15% Alternative Credit Benchmark / 2.5% Bloomberg US Govt Int TR / 2.5% Bloomberg US TIPS TR / 10% NCREIF ODCE (Equal-weighted) Gross
2/1/2018	3/31/2019	50% Russell 3000 / 20% MSCI ACWI ex USA / 7.5% ICE BofAML US HY Master II Constrained / 7.5% S&P Leveraged Loan / 2.5% Bloomberg US Govt Int TR / 2.5% Bloomberg US TIPS TR / 10% NCREIF ODCE (Equal-weighted) Gross
7/1/2013	1/31/2018	50% Russell 3000 / 20% MSCI ACWI ex USA / 7.5% Bloomberg US Govt/Credit TR / 15% 3-Mo T-Bills + 4% / 7.5% NCREIF ODCE (Equal-weighted) Gross
1/1/2010	6/30/2013	50% Russell 3000 / 20% MSCI ACWI ex USA / 7.5% Bloomberg US Govt/Credit TR / 15% 3-Mo T-Bills + 4% / 7.5% NCREIF Property Index
3/1/2009	12/31/2009	100% Policy Benchmark (history)
Growth Segment		
5/1/2021	Present	Weighted Average of Russell 1000 Value / S&P 500 / Russell 1000 Growth / Russell 2000 Value / Russell 2000 Growth / MSCI ACWI ex USA
Domestic Equity Segment		
4/1/1988	Present	Russell 3000
Large Cap Equity Segment		
4/1/2007	Present	Russell 1000
LSV Large Cap Equity		
9/1/2003	Present	Russell 1000 Value
Vanguard S&P 500 Index Fund		
10/1/2012	Present	S&P 500
Sustainable Growth Advisors		
9/1/2019	Present	Russell 1000 Growth



# Benchmark Definitions

Small Cap Equity Segment		
4/1/2007	Present	Russell 2000
LSV Small Cap Equity		
7/1/2001	Present	Russell 2000 Value
Disciplined Growth Investors		
6/1/1997	Present	Russell 2000 Growth
International Equity Segment		
5/1/2007	Present	MSCI ACWI ex USA
Mawer International Equity Fund		
12/1/2015	Present	MSCI ACWI ex USA
Income Segment		
7/1/2022	Present	Weighted Average of FTSET-Bill 3 Months TR / Bloomberg US HY 2% Issuer Cap Index / ICE BofAML US HY Master II Constrained / 3-Mo T-Bills + 1% / 3 Month LIBOR + 4% / Bloomberg US HY 2% Issuer Cap Index / NCREIF ODCE (Equal-weighted) Net
7/1/2021	6/30/2022	Weighted Average of FTSET-Bill 3 Months TR / Bloomberg US HY 2% Issuer Cap Index / ICE BofAML US HY Master II Constrained / 3-Mo T-Bills + 1% / 3 Month LIBOR + 4% / Bloomberg US HY 2% Issuer Cap Index / NCREIF ODCE (Equal-weighted) Net
5/1/2021	6/30/2021	Weighted Average of FTSE T-Bill 3 Months TR / Bloomberg US Treasury Bills 1 Month / ICE BofAML US HY Master II Constrained / 3-Mo T-Bills + 1% / 3 Month LIBOR + 4% / Bloomberg US HY 2% Issuer Cap Index / NCREIF ODCE (Equal-weighted) Net
Fixed Income Segment		
2/1/2021	Present	FTSET-Bill 3 Months TR
9/1/2019	1/31/2021	Bloomberg US Govt Int TR
2/1/2018	8/31/2019	50% Bloomberg US Govt Int TR / 50% Bloomberg US TIPS TR
4/1/1998	1/31/2018	Bloomberg US Govt/Credit TR
Commingled Cash		
4/1/2009	Present	FTSET-Bill 3 Months TR
Alternative Credit		
7/1/2021	Present	25% Bloomberg US HY 2% Issuer Cap Index / 25% ICE BofAML US HY Master II Constrained / 25% 3-Mo T-Bills + 1% / 25% 3 Month LIBOR + 4%
4/1/2021	6/30/2021	20% Bloomberg US Treasury Bills 1 Month / 20% ICE BofAML US HY Master II Constrained / 20% 3-Mo T-Bills + 1% / 20% 3 Month LIBOR + 4% / 20% Bloomberg US High Yield 2% Issuer Cap TR
2/1/2021	3/31/2021	16.67% Bloomberg US Treasury Bills 1 Month / 16.67% ICE BofAML US HY Master II Constrained / 16.67% Bloomberg Global Sovereign Credit Index / 16.67% 3-Mo T-Bills + 1% / 16.66% 3 Month LIBOR + 4% / 16.66% Bloomberg US High Yield 2% Issuer Cap TR
4/1/2019	1/31/2021	20% Bloomberg US Treasury Bills 1 Month / 20% ICE BofAML US HY Master II Constrained / 20% Bloomberg Global Sovereign Credit Index / 20% 3-Mo T-Bills + 1% / 20% 3 Month LIBOR + 4%
2/1/2018	3/31/2019	50% ICE BofAML US HY Master II Constrained / 50% Bloomberg Global Sovereign Credit Index
Ares US High Yield Fund		

# Benchmark Definitions

3/1/2018	Present	ICE BofAML US HY Master II Constrained
1Sharpe Opportunity Fund		
7/1/2018	Present	FTSET-Bill 3 Months TR + 0.08
LibreMax Value Fund		
12/1/2018	Present	ICE 3 Month LIBOR + 0.33
BNYM NSL Efficient Beta Fallen Angels Fund		
2/1/2021	Present	Bloomberg US HY 2% Issuer Cap Index
Real Estate Segment		
9/1/2019	Present	NCREIF ODCE (Equal-weighted) Net
7/1/2013	8/31/2019	NCREIF ODCE (Equal-weighted) Gross
2/1/2005	6/30/2013	NCREIF Property Index
Principal US Property		
2/1/2005	Present	NCREIF ODCE (Equal-weighted) Net
Harrison Street Core Property Fund		
8/1/2019	Present	NCREIF ODCE (Equal-weighted) Net
Harrison Street Social Infrastructure		
7/1/2022	Present	NCREIF ODCE (Equal-weighted) Net

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