

**\$2,627,944,398**  
**Government National Mortgage Association**

**GINNIE MAE®**

**Guaranteed REMIC Pass-Through Securities  
and MX Securities  
Ginnie Mae REMIC Trust 2024-184**

**The Securities**

The Trust will issue the Classes of Securities listed on the front cover of this offering circular supplement.

**The Ginnie Mae Guaranty**

Ginnie Mae will guarantee the timely payment of principal and interest on the securities. The Ginnie Mae Guaranty is backed by the full faith and credit of the United States of America.

**The Trust and its Assets**

The Trust will own Ginnie Mae Certificates.

**The securities may not be suitable investments for you. You should consider carefully the risks of investing in them.**

**See “Risk Factors” beginning on page S-15 which highlights some of these risks.**

The Sponsor and the Co-Sponsor will offer the securities from time to time in negotiated transactions at varying prices. We expect the closing date to be November 29, 2024.

You should read the Base Offering Circular as well as this Supplement.

The securities are exempt from registration under the Securities Act of 1933 and are “exempt securities” under the Securities Exchange Act of 1934.

Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
<b>Security Group 1</b>						
FA	\$ 20,000,000	(5)	PT	FLT	38384XYF4	November 2054
FB	20,000,000	(5)	PT	FLT	38384XYG2	November 2054
FE	20,000,000	(5)	PT	FLT	38384XYH0	November 2054
SA	60,000,000	(5)	NTL(PT)	INV/IO	38384XYJ6	November 2054
TA	20,000,000	(5)	NTL(PT)	INV/IO	38384XYK3	November 2054
TB	20,000,000	(5)	NTL(PT)	INV/IO	38384XYL1	November 2054
<b>Security Group 2</b>						
AB	20,000,000	5.57%	SEQ	FIX	38384XYM9	October 2051
AP(1)	15,416,000	6.50	PAC/AD	FIX	38384XYN7	November 2054
BY	11,320,896	6.00	SEQ	FIX	38384XYP2	November 2054
ZU	1,784,000	6.50	SUP	FIX/Z	38384XYQ0	October 2051
<b>Security Group 3</b>						
AF	200,000,000	(5)	PT	FLT	38384XYR8	November 2054
AS	250,000,000	(5)	NTL(PT)	INV/IO	38384XYS6	November 2054
FG	50,000,000	(5)	PT	FLT	38384XYT4	November 2054
TK	200,000,000	(5)	NTL(PT)	INV/IO	38384XYU1	November 2054
<b>Security Group 4</b>						
CF	18,473,419	(5)	PT	FLT	38384XYV9	November 2054
CS	10,843,778	(5)	NTL(PT)	INV/IO	38384XYW7	November 2054
NS	7,629,641	(5)	NTL(PT)	INV/IO	38384XYX5	November 2054
<b>Security Group 5</b>						
AC	23,806,000	5.50	SEQ	FIX	38384XYX3	April 2052
AV(1)	2,784,000	5.50	SEQ/AD	FIX	38384XYZ0	October 2035
AZ(1)	3,410,000	5.50	SEQ	FIX/Z	38384XZA4	November 2054
BF	40,000,000	(5)	PT	FLT	38384XZB2	November 2054
DF	20,000,000	(5)	PT	FLT	38384XZC0	November 2054
DS	25,000,000	(5)	NTL(PT)	INV/IO	38384XZD8	November 2054
EF	20,000,000	(5)	PT	FLT	38384XZE6	November 2054
ES	60,000,000	(5)	NTL(PT)	INV/IO	38384XZF3	November 2054
FD	5,000,000	(5)	PT	FLT	38384XZG1	November 2054
TC	5,000,000	(5)	NTL(PT)	INV/IO	38384XZH9	November 2054
TE	40,000,000	(5)	NTL(PT)	INV/IO	38384XZJ5	November 2054
<b>Security Group 6</b>						
PT	60,000,000	6.00	PT	FIX	38384XZK2	November 2054
<b>Security Group 7</b>						
C	30,000,000	5.00	SEQ	FIX	38384XZL0	July 2053
CA	31,418,000	5.00	SEQ	FIX	38384XZM8	December 2049
CB	3,514,547	5.00	SEQ	FIX	38384XZN6	November 2054
CD	25,000,000	5.00	SEQ	FIX	38384XZP1	December 2049
FC	59,134,951	(5)	PT	FLT	38384XZQ9	November 2054
SC	59,134,951	(5)	NTL(PT)	INV/IO	38384XZR7	November 2054
VC(1)	11,937,000	5.00	SEQ/AD	FIX	38384XZS5	November 2035
ZC(1)	16,400,355	5.00	SEQ	FIX/Z	38384XZT3	November 2054
<b>Security Group 8</b>						
FH	40,000,000	(5)	PT	FLT	38384XZU0	November 2054
FL	110,000,000	(5)	PT	FLT	38384XZV8	November 2054
HF	50,000,000	(5)	PT	FLT	38384XZW6	November 2054
SH	100,000,000	(5)	NTL(PT)	INV/IO	38384XZX4	November 2054
SL	100,000,000	(5)	NTL(PT)	INV/IO	38384XZY2	November 2054
TG	10,000,000	(5)	NTL(PT)	INV/IO	38384XZZ9	November 2054
TH	90,000,000	(5)	NTL(PT)	INV/IO	38384XA29	November 2054
<b>Security Group 9</b>						
A	50,000,000	5.50	SEQ	FIX	38384XA37	September 2053
B	5,334,219	5.50	SEQ	FIX	38384XA45	November 2054
FU	30,000,000	(5)	PT	FLT	38384XA52	November 2054
GF	31,334,219	(5)	PT	FLT	38384XA60	November 2054
GS	31,334,219	(5)	NTL(PT)	INV/IO	38384XA78	November 2054
SU	60,000,000	(5)	NTL(PT)	INV/IO	38384XA86	November 2054
TD	500,000	(5)	PT	INV	38384XA94	November 2054
UF	30,000,000	(5)	PT	FLT	38384XB28	November 2054

(Cover continued on next page)



**Ramirez & Co., Inc.**

**The date of this Offering Circular Supplement is November 22, 2024.**

Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
<b>Security Group 10</b>						
BA(1)	\$ 19,571,000	3.50%	SEQ	FIX	38384XB36	December 2049
BL(1)	2,573,000	3.50	SEQ	FIX	38384XB44	October 2051
BV	1,662,000	3.50	AD/SEQ	FIX	38384XB51	February 2036
BZ(1)	3,459,977	3.50	SEQ	FIX/Z	38384XB69	November 2054
GA(1)	147,324,000	3.50	SEQ	FIX	38384XB77	March 2047
GL(1)	26,013,000	3.50	SEQ	FIX	38384XB85	October 2051
GM(1)	29,598,000	3.50	SEQ	FIX	38384XB93	October 2049
GV	15,225,000	3.50	AD/SEQ	FIX	38384XC27	February 2036
GZ(1)	31,705,989	3.50	SEQ	FIX/Z	38384XC35	November 2054
<b>Security Group 11</b>						
KA	31,347,000	5.50	SEQ	FIX	38384XC43	February 2050
KY	15,000,000	5.50	SEQ	FIX	38384XC50	November 2054
<b>Security Group 12</b>						
FJ	100,000,000	(5)	PT	FLT	38384XC68	November 2054
SJ	100,000,000	(5)	NTL(PT)	INV/IO	38384XC76	November 2054
<b>Security Group 13</b>						
JF	120,000,000	(5)	PT	FLT	38384XC84	November 2054
JS	170,000,000	(5)	NTL(PT)	INV/IO	38384XC92	November 2054
MF(1)	50,000,000	(5)	PT	FLT	38384XD26	November 2054
TI(1)	50,000,000	0.50	NTL(PT)	FIX/IO	38384XD34	November 2054
TJ	120,000,000	(5)	NTL(PT)	INV/IO	38384XD42	November 2054
<b>Security Group 14</b>						
KF	75,000,000	(5)	PT	FLT	38384XD59	November 2054
KS	75,000,000	(5)	NTL(PT)	INV/IO	38384XD67	November 2054
<b>Security Group 15</b>						
DA	30,000,000	5.00	SEQ	FIX	38384XD75	August 2054
DL	737,366	5.00	SEQ	FIX	38384XD83	November 2054
LF(1)	15,368,682	(5)	PT	FLT	38384XD91	November 2054
LS(1)	15,368,682	(5)	NTL(PT)	INV/IO	38384XE25	November 2054
<b>Security Group 16</b>						
PA(1)	28,654,000	6.50	PAC/AD	FIX	38384XE33	September 2054
PZ	113,000	6.50	PAC/AD	FIX/Z	38384XE41	November 2054
UZ	8,024,777	6.50	SUP	FIX/Z	38384XE58	November 2054
<b>Security Group 17</b>						
MS	19,535,580	(5)	NTL(PT)	INV/IO	38384XE66	November 2054
NA(1)	13,669,000	5.00	SEQ	FIX	38384XE74	September 2050
NF(1)	19,535,580	(5)	PT	FLT	38384XE82	November 2054
NL(1)	4,045,581	5.00	SEQ	FIX	38384XE90	November 2054
NM(1)	1,821,000	5.00	SEQ	FIX	38384XF24	March 2052
<b>Security Group 18</b>						
D(1)	130,311,000	5.00	SEQ	FIX	38384XF32	September 2049
DB(1)	18,472,000	5.00	SEQ	FIX	38384XF40	April 2051
DM(1)	16,445,000	5.00	SEQ	FIX	38384XF57	July 2052
DN(1)	10,356,000	5.00	SEQ	FIX	38384XF65	April 2053
DY(1)	24,416,000	5.00	SEQ	FIX	38384XF73	November 2054
FP(1)	100,000,000	(5)	PT	FLT	38384XF81	November 2054
SP(1)	100,000,000	(5)	NTL(PT)	INV/IO	38384XF99	November 2054
<b>Security Group 19</b>						
PF	70,000,000	(5)	PT	FLT	38384XG23	November 2054
PS	70,000,000	(5)	NTL(PT)	INV/IO	38384XG31	November 2054
SF	70,000,000	(5)	PT	FLT	38384XG49	November 2054
SG	70,000,000	(5)	NTL(PT)	INV/IO	38384XG56	November 2054
<b>Security Group 20</b>						
MA(1)	39,545,000	5.00	SEQ	FIX	38384XG64	December 2050
ML(1)	10,840,420	5.00	SEQ	FIX	38384XG72	November 2054
MN(1)	5,079,000	5.00	SEQ	FIX	38384XG80	May 2052
QF(1)	55,464,420	(5)	PT	FLT	38384XG98	November 2054
QS	55,464,420	(5)	NTL(PT)	INV/IO	38384XH22	November 2054
<b>Security Group 21</b>						
PX(1)	47,507,000	7.50	PAC/AD	FIX	38384XH30	August 2054
ZB	12,306,000	7.50	SUP	FIX/Z	38384XH48	November 2054
ZP	187,000	7.50	PAC/AD	FIX/Z	38384XH55	November 2054
<b>Security Group 22</b>						
EA(1)	34,987,000	5.00	SEQ	FIX	38384XH63	September 2050
EL(1)	10,351,000	5.00	SEQ	FIX	38384XH71	November 2054
EM(1)	4,662,000	5.00	SEQ	FIX	38384XH89	March 2052
SX	100,000,000	(5)	NTL(PT)	INV/IO	38384XH97	November 2054
TX(1)	100,000,000	(5)	NTL(PT)	INV/IO	38384XJ20	November 2054
XF(1)	100,000,000	(5)	PT	FLT	38384XJ38	November 2054
<b>Residual</b>						
R	0	0.00	NPR	NPR	38384XJ46	November 2054

- (1) These Securities may be exchanged for MX Securities described in Schedule I to this Supplement.
- (2) Subject to increase as described under "Increase in Size" in this Supplement. The amount shown for each Notional Class (indicated by "NTL" under Principal Type) is its original Class Notional Balance and does not represent principal that will be paid.
- (3) As defined under "Class Types" in Appendix I to the Base Offering Circular. The Class Notional Balance of each Notional Class will be reduced as shown under "Terms Sheet — Notional Classes" in this Supplement.
- (4) See "Yield, Maturity and Prepayment Considerations — Final Distribution Date" in this Supplement.
- (5) See "Terms Sheet — Interest Rates" in this Supplement.

## AVAILABLE INFORMATION

You should purchase the securities only if you have read and understood the following documents:

- this Offering Circular Supplement (this “Supplement”) and
- the Base Offering Circular.

The Base Offering Circular is available on Ginnie Mae’s website located at <http://www.ginniemae.gov> (“ginniemae.gov”).

If you do not have access to the internet, call BNY Mellon, which will act as information agent for the Trust, at (800) 234-GNMA, to order copies of the Base Offering Circular.

Please consult the standard abbreviations of Class Types included in the Base Offering Circular as Appendix I and the glossary included in the Base Offering Circular as Appendix II for definitions of capitalized terms.

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## TERMS SHEET

This terms sheet contains selected information for quick reference only. You should read this Supplement, particularly “Risk Factors,” and each of the other documents listed under “Available Information.”

**Sponsor:** BMO Capital Markets Corp.

**Co-Sponsor:** Samuel A. Ramirez & Company, Inc.

**Trustee:** U.S. Bank National Association

**Tax Administrator:** The Trustee

**Closing Date:** November 29, 2024

**Distribution Date:** The 20th day of each month or, if the 20th day is not a Business Day, the first Business Day thereafter, commencing in December 2024.

### Trust Assets:

<u>Trust Asset Group or Subgroup<sup>(1)</sup></u>	<u>Trust Asset Type</u>	<u>Certificate Rate</u>	<u>Original Term To Maturity (in years)</u>
1	Ginnie Mae II	7.000%	30
2	Ginnie Mae II	6.000%	30
3	Ginnie Mae II	6.000%	30
4A	Ginnie Mae II	7.500%	30
4B	Ginnie Mae II	7.500%	30
5A	Ginnie Mae II	6.500%	30
5B	Ginnie Mae II	6.500%	30
5C	Ginnie Mae II	6.500%	30
6	Ginnie Mae II	6.000%	30
7	Ginnie Mae II	5.500%	30
8	Ginnie Mae II	7.000%	30
9	Ginnie Mae II	6.000%	30
10A	Ginnie Mae II	3.500%	30
10B	Ginnie Mae II	3.500%	30
11	Ginnie Mae II	5.500%	30
12	Ginnie Mae II	6.500%	30
13	Ginnie Mae II	6.500%	30
14	Ginnie Mae II	7.000%	30
15	Ginnie Mae II	5.500%	30
16	Ginnie Mae II	6.500%	30
17	Ginnie Mae II	6.000%	30
18	Ginnie Mae II	5.500%	30
19	Ginnie Mae II	6.500%	30
20	Ginnie Mae II	6.000%	30

<u>Trust Asset Group or Subgroup<sup>(1)</sup></u>	<u>Trust Asset Type</u>	<u>Certificate Rate</u>	<u>Original Term To Maturity (in years)</u>
21	Ginnie Mae II	7.500%	30
22	Ginnie Mae II	6.000%	30

<sup>(1)</sup> The Group 4, 5 and 10 Trust Assets consist of the enumerated subgroups (each, a “Subgroup”).

**Security Groups:** This series of Securities consists of multiple Security Groups (each, a “Group”), as shown on the front cover of this Supplement and on Schedule I to this Supplement. Except in the case of certain MX Classes in Groups 15, 17, 18 and 20, payments on each Group will be based solely on payments on the Trust Asset Group with the same numerical designation.

**Assumed Characteristics of the Mortgage Loans Underlying the Trust Assets<sup>(1)</sup>:**

<u>Principal Balance</u>	<u>Weighted Average Remaining Term to Maturity (in months)</u>	<u>Weighted Average Loan Age (in months)</u>	<u>Weighted Average Mortgage Rate<sup>(2)</sup></u>
<b>Group 1 Trust Assets</b>			
\$60,000,000	358	2	7.600%
<b>Group 2 Trust Assets</b>			
\$48,520,896	353	0	6.569%
<b>Group 3 Trust Assets</b>			
\$250,000,000	358	2	6.555%
<b>Subgroup 4A Trust Assets</b>			
\$10,843,778	359	1	8.151%
<b>Subgroup 4B Trust Assets</b>			
\$7,629,641	359	1	8.151%
<b>Subgroup 5A Trust Assets</b>			
\$60,000,000	358	2	6.985%
<b>Subgroup 5B Trust Assets</b>			
\$20,000,000	358	2	6.985%
<b>Subgroup 5C Trust Assets</b>			
\$35,000,000	358	2	6.985%
<b>Group 6 Trust Assets</b>			
\$60,000,000	353	1	6.553%
<b>Group 7 Trust Assets</b>			
\$177,404,853	359	1	6.161%
<b>Group 8 Trust Assets</b>			
\$200,000,000	346	11	7.542%
<b>Group 9 Trust Assets</b>			
\$147,168,438	358	2	6.555%
<b>Subgroup 10A Trust Assets<sup>(3)</sup></b>			
\$249,865,989	241	113	3.902%

<u>Principal Balance</u>	<u>Weighted Average Remaining Term to Maturity (in months)</u>	<u>Weighted Average Loan Age (in months)</u>	<u>Weighted Average Mortgage Rate<sup>(2)</sup></u>
<b>Subgroup 10B Trust Assets</b>			
\$27,265,977	247	104	3.911%
<b>Group 11 Trust Assets</b>			
\$46,347,000	353	1	6.069%
<b>Group 12 Trust Assets</b>			
\$100,000,000	355	3	7.091%
<b>Group 13 Trust Assets</b>			
\$170,000,000	355	4	7.012%
<b>Group 14 Trust Assets</b>			
\$75,000,000	356	4	7.352%
<b>Group 15 Trust Assets</b>			
\$46,106,048	355	2	6.116%
<b>Group 16 Trust Assets</b>			
\$36,791,777	341	7	7.017%
<b>Group 17 Trust Assets</b>			
\$39,071,161	358	1	6.603%
<b>Group 18 Trust Assets</b>			
\$300,000,000	355	1	6.100%
<b>Group 19 Trust Assets</b>			
\$140,000,000	357	2	7.100%
<b>Group 20 Trust Assets</b>			
\$110,928,840	356	3	6.600%
<b>Group 21 Trust Assets</b>			
\$60,000,000	353	2	7.955%
<b>Group 22 Trust Assets</b>			
\$150,000,000	358	1	6.600%

<sup>(1)</sup> As of November 1, 2024.

<sup>(2)</sup> The Mortgage Loans underlying the Trust Assets may bear interest at rates ranging from 0.25% to 1.50% per annum above the related Certificate Rate.

<sup>(3)</sup> The Mortgage Loans underlying the Subgroup 10A Trust Assets may be re-performing Mortgage Loans that were previously repurchased from one or more pools of Mortgage Loans underlying one or more Ginnie Mae MBS Certificates.

The actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans will differ from the weighted averages shown above, perhaps significantly. See *“The Trust Assets — The Mortgage Loans”* in this Supplement.

**Issuance of Securities:** The Securities, other than the Residual Securities, will initially be issued in book-entry form through the book-entry system of the U.S. Federal Reserve Banks (the “Fedwire Book-Entry System”). The Residual Securities will be issued in fully registered, certificated form. See *“Description of the Securities — Form of Securities”* in this Supplement.

**Modification and Exchange:** If you own exchangeable Securities you will be able, upon notice and payment of an exchange fee, to exchange them for a proportionate interest in the related Securities shown on Schedule I to this Supplement. See “Description of the Securities — Modification and Exchange” in this Supplement.

**Increased Minimum Denomination Classes:** Each Class that constitutes an Interest Only or Inverse Floating Rate Class. See “Description of the Securities — Form of Securities” in this Supplement.

**Interest Rates:** The Interest Rates for the Fixed Rate Classes are shown on the front cover of this Supplement or on Schedule I to this Supplement.

The Floating Rate and Inverse Floating Rate Classes will bear interest at per annum rates based on a 30-day compounded average of the Secured Overnight Financing Rate (“SOFR”) (hereinafter referred to as “30-day Average SOFR”) as follows:

<u>Class</u>	<u>Interest Rate Formula(1)</u>	<u>Initial Interest Rate(2)</u>	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Delay (in days)</u>	<u>30-day Average SOFR for Minimum Interest Rate</u>
<b>Security Group 1</b>						
FA . . . . .	30-day Average SOFR + 1.00%	5.85713%	1.00%	7.00%	0	0.00%
FB . . . . .	30-day Average SOFR + 1.05%	5.90713%	1.05%	7.00%	0	0.00%
FE . . . . .	30-day Average SOFR + 1.10%	5.95713%	1.10%	7.00%	0	0.00%
SA . . . . .	5.90% – 30-day Average SOFR	1.04287%	0.00%	5.90%	0	5.90%
TA . . . . .	5.95% – 30-day Average SOFR	0.05000%	0.00%	0.05%	0	5.95%
TB . . . . .	6.00% – 30-day Average SOFR	0.10000%	0.00%	0.10%	0	6.00%
<b>Security Group 3</b>						
AF . . . . .	30-day Average SOFR + 1.65%	6.00000%	1.65%	6.00%	0	0.00%
AS . . . . .	4.25% – 30-day Average SOFR	0.00000%	0.00%	4.25%	0	4.25%
FG . . . . .	30-day Average SOFR + 1.75%	6.00000%	1.75%	6.00%	0	0.00%
TK . . . . .	4.35% – 30-day Average SOFR	0.00000%	0.00%	0.10%	0	4.35%
<b>Security Group 4</b>						
CF . . . . .	30-day Average SOFR + 0.90%	5.74989%	0.90%	7.50%	0	0.00%
CS . . . . .	6.60% – 30-day Average SOFR	1.74485%	0.00%	6.60%	0	6.60%
NS . . . . .	6.60% – 30-day Average SOFR	1.75757%	0.00%	6.60%	0	6.60%
<b>Security Group 5</b>						
BF . . . . .	30-day Average SOFR + 1.05%	5.90515%	1.05%	7.00%	0	0.00%
DF . . . . .	30-day Average SOFR + 1.30%	6.15515%	1.30%	6.50%	0	0.00%
DS . . . . .	5.20% – 30-day Average SOFR	0.34485%	0.00%	5.20%	0	5.20%
EF . . . . .	30-day Average SOFR + 1.08%	6.42541%	1.08%	7.00%	0	0.00%
ES . . . . .	5.92% – 30-day Average SOFR	0.90143%	0.00%	5.92%	0	5.92%
FD . . . . .	30-day Average SOFR + 1.25%	6.10515%	1.25%	6.50%	0	0.00%
TC . . . . .	5.25% – 30-day Average SOFR	0.05000%	0.00%	0.05%	0	5.25%
TE . . . . .	5.95% – 30-day Average SOFR	0.03000%	0.00%	0.03%	0	5.95%
<b>Security Group 7</b>						
FC . . . . .	30-day Average SOFR + 1.20%	6.05448%	1.20%	6.50%	0	0.00%
SC . . . . .	5.30% – 30-day Average SOFR	0.44552%	0.00%	5.30%	0	5.30%

<u>Class</u>	<u>Interest Rate Formula(1)</u>	<u>Initial Interest Rate(2)</u>	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Delay (in days)</u>	<u>30-day Average SOFR for Minimum Interest Rate</u>
<b>Security Group 8</b>						
FH . . . . .	30-day Average SOFR + 1.05%	5.90448%	1.05%	7.00%	0	0.00%
FL . . . . .	30-day Average SOFR + 1.00%	5.85448%	1.00%	7.00%	0	0.00%
HF . . . . .	30-day Average SOFR + 1.05%	5.90448%	1.05%	7.00%	0	0.00%
SH . . . . .	5.90% - 30-day Average SOFR	1.04552%	0.00%	5.90%	0	5.90%
SL . . . . .	6.00% - 30-day Average SOFR	1.14552%	0.00%	6.00%	0	6.00%
TG . . . . .	6.00% - 30-day Average SOFR	0.10000%	0.00%	0.10%	0	6.00%
TH . . . . .	5.95% - 30-day Average SOFR	0.05000%	0.00%	0.05%	0	5.95%
<b>Security Group 9</b>						
FU . . . . .	30-day Average SOFR + 1.40%	6.24444%	1.40%	6.25%	0	0.00%
GF . . . . .	30-day Average SOFR + 1.15%	5.99444%	1.15%	6.50%	0	0.00%
GS . . . . .	5.35% - 30-day Average SOFR	0.50556%	0.00%	5.35%	0	5.35%
SU . . . . .	4.85% - 30-day Average SOFR	0.02146%	0.00%	4.85%	0	4.85%
TD . . . . .	297.00% - (30-day Average SOFR × 60)	6.00000%	0.00%	6.00%	0	4.95%
UF . . . . .	30-day Average SOFR + 1.30%	6.11264%	1.30%	6.25%	0	0.00%
<b>Security Group 12</b>						
FJ . . . . .	30-day Average SOFR + 1.15%	6.00579%	1.15%	6.50%	0	0.00%
SJ . . . . .	5.35% - 30-day Average SOFR	0.49421%	0.00%	5.35%	0	5.35%
<b>Security Group 13</b>						
FM . . . . .	30-day Average SOFR + 1.25%	6.09343%	1.25%	6.50%	0	0.00%
JF . . . . .	30-day Average SOFR + 1.20%	6.04343%	1.20%	6.50%	0	0.00%
JS . . . . .	5.25% - 30-day Average SOFR	0.40657%	0.00%	5.25%	0	5.25%
MF . . . . .	30-day Average SOFR + 0.75%	5.59343%	0.75%	6.00%	0	0.00%
TJ . . . . .	5.30% - 30-day Average SOFR	0.05000%	0.00%	0.05%	0	5.30%
<b>Security Group 14</b>						
KF . . . . .	30-day Average SOFR + 1.00%	5.84310%	1.00%	7.00%	0	0.00%
KS . . . . .	6.00% - 30-day Average SOFR	1.15690%	0.00%	6.00%	0	6.00%
<b>Security Group 15</b>						
LF . . . . .	30-day Average SOFR + 1.20%	6.01264%	1.20%	6.50%	0	0.00%
LS . . . . .	5.30% - 30-day Average SOFR	0.48736%	0.00%	5.30%	0	5.30%
<b>Security Group 17</b>						
MS . . . . .	6.00% - 30-day Average SOFR	1.14243%	0.00%	6.00%	0	6.00%
NF . . . . .	30-day Average SOFR + 1.00%	5.85757%	1.00%	7.00%	0	0.00%
<b>Security Group 18</b>						
FP . . . . .	30-day Average SOFR + 1.20%	6.01264%	1.20%	6.50%	0	0.00%
SP . . . . .	5.30% - 30-day Average SOFR	0.48736%	0.00%	5.30%	0	5.30%
<b>Security Groups 15 and 18</b>						
FN . . . . .	30-day Average SOFR + 1.20%	6.01264%	1.20%	6.50%	0	0.00%
SN . . . . .	5.30% - 30-day Average SOFR	0.48736%	0.00%	5.30%	0	5.30%
<b>Security Group 19</b>						
PF . . . . .	30-day Average SOFR + 1.40%	6.00000%	1.40%	6.00%	0	0.00%
PS . . . . .	4.60% - 30-day Average SOFR	0.00000%	0.00%	4.60%	0	4.60%
SF . . . . .	30-day Average SOFR + 1.05%	5.84827%	1.05%	7.00%	0	0.00%
SG . . . . .	5.95% - 30-day Average SOFR	1.15173%	0.00%	5.95%	0	5.95%
<b>Security Group 20</b>						
QF . . . . .	30-day Average SOFR + 1.00%	5.85757%	1.00%	7.00%	0	0.00%
QS . . . . .	6.00% - 30-day Average SOFR	1.14243%	0.00%	6.00%	0	6.00%



<u>Class</u>	<u>Interest Rate Formula(1)</u>	<u>Initial Interest Rate(2)</u>	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Delay (in days)</u>	<u>30-day Average SOFR for Minimum Interest Rate</u>
<b>Security Groups 17 and 20</b>						
FS . . . . .	30-day Average SOFR + 1.00%	5.85757%	1.00%	7.00%	0	0.00%
<b>Security Group 22</b>						
FX . . . . .	30-day Average SOFR + 1.25%	6.10579%	1.25%	6.50%	0	0.00%
SX . . . . .	5.25% – 30-day Average SOFR	0.39421%	0.00%	5.25%	0	5.25%
TX . . . . .	5.55% – 30-day Average SOFR	0.30000%	0.00%	0.30%	0	5.55%
XF . . . . .	30-day Average SOFR + 0.95%	5.80579%	0.95%	6.50%	0	0.00%

- (1) 30-day Average SOFR will be established as described under “Description of the Securities — Interest Distributions — Floating Rate and Inverse Floating Rate Classes” in this Supplement.
- (2) The initial Interest Rate will be in effect during the first Accrual Period; the Interest Rate will adjust monthly thereafter.

**Allocation of Principal:** On each Distribution Date for a Security Group, the following distributions will be made to the related Securities:

**SECURITY GROUP 1**

The Group 1 Principal Distribution Amount will be allocated, concurrently, to FA, FB and FE, pro rata, until retired

**SECURITY GROUP 2**

The Group 2 Principal Distribution Amount and the ZU Accrual Amount will be allocated as follows:

- 53.7634408602% of the Group 2 Principal Distribution Amount, sequentially, to AB and BY, in that order, until retired
- 46.2365591398% of the Group 2 Principal Distribution Amount and the ZU Accrual Amount in the following order of priority:
  1. To AP, until reduced to its Scheduled Principal Balance for that Distribution Date
  2. To ZU, until retired
  3. To AP, without regard to its Scheduled Principal Balance, until retired
  4. To BY, until retired

**SECURITY GROUP 3**

The Group 3 Principal Distribution Amount will be allocated, concurrently, to AF and FG, pro rata, until retired

**SECURITY GROUP 4**

The Group 4 Principal Distribution Amount will be allocated to CF, until retired

### **SECURITY GROUP 5**

The Subgroup 5A Principal Distribution Amount, the Subgroup 5B Principal Distribution Amount, the Subgroup 5C Principal Distribution Amount and the AZ Accrual Amount will be allocated as follows:

- The AZ Accrual Amount, sequentially, to AV and AZ, in that order, until retired
- 66.6666666667% of Subgroup 5A Principal Distribution Amount will be allocated to BF, until retired
- 33.3333333333% of Subgroup 5A Principal Distribution Amount and 28.5714285714% of Subgroup 5C Principal Distribution Amount, sequentially, to AC, AV and AZ, in that order, until retired
- The Subgroup 5B Principal Distribution to DF, until retired
- 71.4285714286% of the Subgroup 5C Principal Distribution Amount, concurrently, to FD and EF, pro rata, until retired

### **SECURITY GROUP 6**

The Group 6 Principal Distribution Amount will be allocated to PT, until retired

### **SECURITY GROUP 7**

The Group 7 Principal Distribution Amount and the ZC Accrual Amount will be allocated as follows:

- The ZC Accrual Amount, sequentially, to VC and ZC, in that order, until retired
- 33.3333333333% of the Group 7 Principal Distribution Amount to FC, until retired
- 18.8915615516% of the Group 7 Principal Distribution Amount, sequentially, to C and CB, in that order, until retired
- 47.7751051151% of the Group 7 Principal Distribution Amount in the following order of priority:
  1. Concurrently, to CA and CD, pro rata, until retired
  2. Sequentially, to VC and ZC, in that order, until retired

### **SECURITY GROUP 8**

The Group 8 Principal Distribution Amount will be allocated, concurrently, to FH, FL and HF, pro rata, until retired

### **SECURITY GROUP 9**

The Group 9 Principal Distribution Amount will be allocated, concurrently, as follows:

- 62.4007567438%, concurrently, to FU, GF, TD and UF, pro rata, until retired
- 37.5992432562%, sequentially, to A and B, in that order, until retired

#### **SECURITY GROUP 10**

The Subgroup 10A Principal Distribution Amount, the Subgroup 10B Principal Distribution Amount, the BZ Accrual Amount and the GZ Accrual Amount will be allocated as follows:

- The BZ Accrual Amount, sequentially, to BV and BZ, in that order, until retired
- The GZ Accrual Amount, sequentially, to GV and GZ, in that order, until retired
- The Subgroup 10A Principal Distribution Amount, sequentially, to GA, GM, GL, GV and GZ, in that order, until retired
- The Subgroup 10B Principal Distribution Amount, sequentially, to BA, BL, BV and BZ, in that order, until retired

#### **SECURITY GROUP 11**

The Group 11 Principal Distribution Amount will be allocated, sequentially, to KA and KY, in that order, until retired

#### **SECURITY GROUP 12**

The Group 12 Principal Distribution Amount will be allocated to FJ, until retired

#### **SECURITY GROUP 13**

The Group 13 Principal Distribution Amount will be allocated, concurrently, to JF and MF, pro rata, until retired

#### **SECURITY GROUP 14**

The Group 14 Principal Distribution Amount will be allocated to KF, until retired

#### **SECURITY GROUP 15**

The Group 15 Principal Distribution Amount will be allocated, concurrently, as follows:

- 33.3333318874% to LF, until retired
- 66.6666681126%, sequentially, to DA and DL, in that order, until retired

#### **SECURITY GROUP 16**

The Group 16 Principal Distribution Amount, the PZ Accrual Amount and the UZ Accrual Amount will be allocated as follows:

- The PZ Accrual Amount, sequentially, to PA and PZ, in that order, until retired
- The Group 16 Principal Distribution Amount and the UZ Accrual Amount in the following order of priority:
  1. Sequentially, to PA and PZ, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
  2. To UZ, until retired
  3. Sequentially, to PA and PZ, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

**SECURITY GROUP 17**

The Group 17 Principal Distribution Amount will be allocated, concurrently, as follows:

- 49.9999987203% to NF, until retired
- 50.0000012797%, sequentially, to NA, NM and NL, in that order, until retired

**SECURITY GROUP 18**

The Group 18 Principal Distribution Amount will be allocated, concurrently, as follows:

- 33.3333333333% to FP, until retired
- 66.6666666667%, sequentially, to D, DB, DM, DN and DY, in that order, until retired

**SECURITY GROUP 19**

The Group 19 Principal Distribution Amount will be allocated, concurrently, to PF and SF, pro rata, until retired

**SECURITY GROUP 20**

The Group 20 Principal Distribution Amount will be allocated, concurrently, as follows:

- 50% to QF, until retired
- 50%, sequentially, to MA, MN and ML, in that order, until retired

**SECURITY GROUP 21**

The Group 21 Principal Distribution Amount, the ZB Accrual Amount and the ZP Accrual Amount will be allocated as follows:

- The ZP Accrual Amount, sequentially, to PX and ZP, in that order, until retired
- The Group 21 Principal Distribution Amount and the ZB Accrual Amount in the following order of priority:
  1. Sequentially, to PX and ZP, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
  2. To ZB, until retired
  3. Sequentially, to PX and ZP, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

**SECURITY GROUP 22**

The Group 22 Principal Distribution Amount will be allocated, concurrently, as follows:

- 66.6666666667% to XF, until retired
- 33.3333333333%, sequentially, to EA, EM and EL, in that order, until retired

**Scheduled Principal Balances:** The Scheduled Principal Balances or Aggregate Scheduled Principal Balances for the Classes listed below are included in Schedule II to this Supplement. They were calculated using among other things the following Structuring Ranges:

<u>Security Group</u>	<u>Structuring Ranges</u>
<b>PAC Classes</b>	
2 AP .....	175% PSA through 250% PSA
16 PA and PZ (in the aggregate) .....	200% PSA through 450% PSA
21 PX and ZP (in the aggregate) .....	200% PSA through 450% PSA

**Accrual Classes:** Interest will accrue on each Accrual Class identified on the front cover of this Supplement at the per annum rate set forth on that page. However, no interest will be distributed to the Accrual Classes as interest. Interest so accrued on each Accrual Class on each Distribution Date will constitute an Accrual Amount, which will be added to the Class Principal Balance of that Class on each Distribution Date and will be distributable as principal as set forth in this Terms Sheet under "Allocation of Principal."

**Notional Classes:** The Notional Classes will not receive distributions of principal but have Class Notional Balances for convenience in describing their entitlements to interest. The Class Notional Balance of each Notional Class represents the percentage indicated below of, and reduces to that extent with, the Class Principal Balances or the outstanding principal balance of the related Trust Asset Subgroup indicated:

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
<b>Security Group 1</b>		
SA .....	\$ 60,000,000	100% of FA, FB and FE (in the aggregate) (PT Classes)
TA .....	20,000,000	100% of FB (PT Class)
TB .....	20,000,000	100% of FA (PT Class)
<b>Security Group 2</b>		
IP .....	\$ 3,854,000	25% of AP (PAC/AD Class)
<b>Security Group 3</b>		
AS .....	\$250,000,000	100% of AF and FG (in the aggregate) (PT Classes)
TK .....	200,000,000	100% of AF (PT Class)
<b>Security Group 4</b>		
CS .....	\$ 10,843,778	100% of the Subgroup 4A Trust Assets
NS .....	7,629,641	100% of the Subgroup 4B Trust Assets
<b>Security Group 5</b>		
DS .....	\$ 25,000,000	100% of DF and FD (in the aggregate) (PT Classes)
ES .....	60,000,000	100% of BF and EF (in the aggregate) (PT Classes)
TC .....	5,000,000	100% of FD (PT Class)
TE .....	40,000,000	100% of BF (PT Class)
<b>Security Group 7</b>		
SC .....	\$ 59,134,951	100% of FC (PT Class)

Class	Original Class Notional Balance	Represents Approximately
<b>Security Group 8</b>		
SH . . . . .	\$ 90,000,000	100% of FH and HF (in the aggregate) (PT Classes)
	<u>10,000,000</u>	9.0909090909% of FL (PT Class)
	<u>\$100,000,000</u>	
SL . . . . .	\$100,000,000	90.9090909091% of FL (PT Class)
TG . . . . .	10,000,000	9.0909090909% of FL (PT Class)
TH . . . . .	90,000,000	100% of FH and HF (in the aggregate) (PT Classes)
<b>Security Group 9</b>		
GS . . . . .	\$ 31,334,219	100% of GF (PT Class)
SU . . . . .	60,000,000	100% of FU and UF (in the aggregate) (PT Classes)
<b>Security Group 10</b>		
BI . . . . .	\$ 9,490,285	42.8571428571% of BA and BL (in the aggregate) (SEQ Classes)
GI . . . . .	63,138,857	42.8571428571% of GA (SEQ Class)
HI . . . . .	86,972,142	42.8571428571% of GA, GL and GM (in the aggregate) (SEQ Classes)
IG . . . . .	75,823,714	42.8571428571% of GA and GM (in the aggregate) (SEQ Classes)
<b>Security Group 12</b>		
SJ . . . . .	\$100,000,000	100% of FJ (PT Class)
<b>Security Group 13</b>		
JS . . . . .	\$170,000,000	100% of MF and JF (in the aggregate) (PT Classes)
TI . . . . .	50,000,000	100% of MF (PT Class)
TJ . . . . .	120,000,000	100% of JF (PT Class)
<b>Security Group 14</b>		
KS . . . . .	\$ 75,000,000	100% of KF (PT Class)
<b>Security Group 15</b>		
LS . . . . .	\$ 15,368,682	100% of LF (PT Class)
<b>Security Group 16</b>		
PI . . . . .	\$ 6,612,461	23.0769230769% of PA (PAC/AD Class)
<b>Security Group 17</b>		
IN . . . . .	\$ 1,290,833	8.3333333333% of NA and NM (in the aggregate) (SEQ Classes)
MI . . . . .	1,627,965	8.3333333333% of NA, NL and NM (in the aggregate) (SEQ Classes)
MS . . . . .	19,535,580	100% of NF (PT Class)
<b>Security Group 18</b>		
CI . . . . .	\$ 15,962,181	9.0909090909% of D, DB, DM and DN (in the aggregate) (SEQ Classes)
DI . . . . .	11,846,454	9.0909090909% of D (SEQ Class)
IC . . . . .	18,181,818	9.0909090909% of D, DB, DM, DN and DY (in the aggregate) (SEQ Classes)
ID . . . . .	13,525,727	9.0909090909% of D and DB (in the aggregate) (SEQ Classes)
IY . . . . .	4,656,090	9.0909090909% of DM, DN and DY (in the aggregate) (SEQ Classes)
SP . . . . .	100,000,000	100% of FP (PT Class)
VI . . . . .	6,335,363	9.0909090909% of DB, DM, DN and DY (in the aggregate) (SEQ Classes)
XI . . . . .	16,522,800	10% of D, DB and DM (in the aggregate) (SEQ Classes)
YI . . . . .	3,161,090	9.0909090909% of DN and DY (in the aggregate) (SEQ Classes)
<b>Security Groups 15 and 18</b>		
SN . . . . .	\$115,368,682	100% of FP and LF (in the aggregate) (PT Classes)
<b>Security Group 19</b>		
PS . . . . .	\$ 70,000,000	100% of PF (PT Class)
SG . . . . .	70,000,000	100% of SF (PT Class)

Class	Original Class Notional Balance	Represents Approximately
<b>Security Group 20</b>		
IU . . . . .	\$ 3,718,666	8.3333333333% of MA and MN (in the aggregate) (SEQ Classes)
LI . . . . .	4,622,035	8.3333333333% of MA, ML and MN (in the aggregate) (SEQ Classes)
QS . . . . .	55,464,420	100% of QF (PT Class)
<b>Security Groups 17 and 20</b>		
IL . . . . .	\$ 5,321,400	10% of MA and NA (in the aggregate) (SEQ Classes)
KI . . . . .	6,250,000	8.3333333333% of MA, ML, MN, NA, NL and NM (in the aggregate) (SEQ Classes)
UI . . . . .	5,009,500	8.3333333333% of MA, MN, NA and NM (in the aggregate) (SEQ Classes)
<b>Security Group 21</b>		
IA . . . . .	\$ 12,668,533	26.6666666667% of PX (PAC/AD Class)
<b>Security Group 22</b>		
EI . . . . .	\$ 5,831,166	16.6666666667% of EA (SEQ Class)
IE . . . . .	6,608,166	16.6666666667% of EA and EM (in the aggregate) (SEQ Classes)
JI . . . . .	8,333,333	16.6666666667% of EA, EL and EM (in the aggregate) (SEQ Classes)
SX . . . . .	100,000,000	100% of XF (PT Class)
TX . . . . .	100,000,000	100% of XF (PT Class)

**Tax Status:** Single REMIC Series. See “*Certain United States Federal Income Tax Consequences*” in this Supplement and in the Base Offering Circular.

**Regular and Residual Classes:** Class R is a Residual Class and represents the Residual Interest of the Trust REMIC. All other Classes of REMIC Securities are Regular Classes.

## RISK FACTORS

*You should purchase securities only if you understand and are able to bear the associated risks. The risks applicable to your investment depend on the principal and interest type of your securities. This section highlights certain of these risks.*

***The rate of principal payments on the underlying mortgage loans will affect the rate of principal payments on your securities.*** The rate at which you will receive principal payments will depend largely on the rate of principal payments, including prepayments, on the mortgage loans underlying the related trust assets. Any historical data regarding mortgage loan prepayment rates may not be indicative of the rate of future prepayments on the underlying mortgage loans, and no assurances can be given about the rates at which the underlying mortgage loans will prepay. We expect the rate of principal payments on the underlying mortgage loans to vary. Borrowers generally may prepay their mortgage loans at any time without penalty.

The terms of the mortgage loans may be modified to permit, among other things, a partial release of security, which releases a portion of the mortgaged property from the lien securing the related mortgage loan. Partial releases of security may reduce the value of the remaining security and also allow the related borrower to sell the released property and generate proceeds that may be used to prepay the related mortgage loan in whole or in part.

In addition to voluntary prepayments, mortgage loans can be prepaid as a result of governmental mortgage insurance claim payments, loss mitigation arrangements, repurchases or liquidations of defaulted mortgage loans. Although under certain circumstances Ginnie Mae issuers have the option to repurchase defaulted mortgage loans from the related pool underlying a Ginnie Mae MBS certificate, they are not obligated to do so. Defaulted mortgage loans that remain in pools backing Ginnie Mae MBS certificates may be subject to governmental mortgage insurance claim payments, loss mitigation arrangements or foreclosure, which could have the same effect as voluntary prepayments on the cash flow available to pay the securities.

A catastrophic weather event, pandemic or other natural disaster may affect the rate of principal payments, including prepayments, on the underlying mortgage loans. Any such event may damage the related mortgaged properties that secure the mortgage loans or may lead to a general economic downturn in the affected regions, including job losses and declines in real estate values. A general economic downturn may increase the rate of defaults on the mortgage loans in such areas resulting in prepayments on the related securities due to governmental mortgage insurance claim payments, loss mitigation arrangements, repurchases or liquidations of defaulted mortgage loans. Insurance payments on damaged or destroyed homes may also lead to prepayments on the underlying mortgage loans. Further, in connection with presidentially declared major disasters, Ginnie Mae may authorize optional special assistance to issuers, including expanded buyout authority which allows issuers, upon receiving written approval from Ginnie Mae, to repurchase eligible loans from the related pool underlying a Ginnie Mae MBS certificate, even if such loans are not delinquent or do not otherwise meet the standard conditions for removal or repurchase.

No assurances can be given as to the timing or frequency of any governmental mortgage insurance claim payments, issuer repurchases, loss mitigation arrangements or foreclosure proceedings with respect to defaulted mortgage loans and the resulting effect on the timing or rate of principal payments on your securities.

***Rates of principal payments can reduce your yield.*** The yield on your securities probably will be lower than you expect if:

- you bought your securities at a premium (interest only securities, for example) and principal payments are faster than you expected, or



- you bought your securities at a discount and principal payments are slower than you expected.

In addition, if your securities are interest only securities or securities purchased at a significant premium, you could lose money on your investment if prepayments occur at a rapid rate.

***Under certain circumstances, a Ginnie Mae issuer has the right to repurchase a defaulted mortgage loan from the related pool of mortgage loans underlying a particular Ginnie Mae MBS certificate, the effect of which would be comparable to a prepayment of such mortgage loan.*** At its option and without Ginnie Mae's prior consent, a Ginnie Mae issuer may repurchase any mortgage loan at an amount equal to par less any amounts previously advanced by such issuer in connection with its responsibilities as servicer of such mortgage loan to the extent that (i) in the case of a mortgage loan included in a pool of mortgage loans underlying a Ginnie Mae MBS certificate issued on or before December 1, 2002, such mortgage loan has been delinquent for four consecutive months, and at least one delinquent payment remains uncured or (ii) in the case of a mortgage loan included in a pool of mortgage loans underlying a Ginnie Mae MBS certificate issued on or after January 1, 2003, no payment has been made on such mortgage loan for three consecutive months. Any such repurchase will result in prepayment of the principal balance or reduction in the notional balance of the securities ultimately backed by such mortgage loan. No assurances can be given as to the timing or frequency of any such repurchases.

***The levels of 30-day Average SOFR will affect the yields on the floating rate and inverse floating rate securities.*** If 30-day Average SOFR performs differently from what you expect, the yield on the floating rate and inverse floating rate securities may be lower than you expect. Lower levels of such index will generally reduce the yield on the floating rate securities; higher levels of such index will generally reduce the yield on the inverse floating rate securities. You should bear in mind that the timing of changes

in the level of such index may affect your yield: generally, the earlier a change, the greater the effect on your yield. It is doubtful that such index will remain constant.

***An investment in the securities is subject to significant reinvestment risk.*** The rate of principal payments on your securities is uncertain. You may be unable to reinvest the payments on your securities at the same returns provided by the securities. Lower prevailing interest rates may result in an unexpected return of principal. In that interest rate climate, higher yielding reinvestment opportunities may be limited. Conversely, higher prevailing interest rates may result in slower returns of principal, and you may not be able to take advantage of higher yielding investment opportunities. The final payment on your security may occur much earlier than the final distribution date.

***Support securities will be more sensitive to rates of principal payments than other securities.*** If principal prepayments result in principal distributions on any distribution date equal to or less than the amount needed to produce scheduled payments on the PAC classes, the related support class will not receive any principal distribution on that date. If prepayments result in principal distributions on any distribution date greater than the amount needed to produce scheduled payments on the PAC classes for that distribution date, this excess will be distributed to the related support class.

***Up to 10% of the mortgage loans underlying the trust assets may be higher balance mortgage loans.*** Subject to special pooling parameters set forth in the Ginnie Mae Mortgage-Backed Securities Guide, qualifying federally-insured or guaranteed mortgage loans that exceed certain balance thresholds established by Ginnie Mae ("higher balance mortgage loans") may be included in Ginnie Mae guaranteed pools. There are no historical performance data regarding the prepayment rates for higher balance mortgage loans. If the higher balance mortgage loans prepay faster or slower than expected, the weighted average lives and yields

of the related securities are likely to be affected, perhaps significantly. Furthermore, higher balance mortgage loans tend to be concentrated in certain geographic areas, which may experience relatively higher rates of defaults in the event of adverse economic conditions. No assurances can be given about the prepayment experience or performance of the higher balance mortgage loans.

***An investment in the floating rate and inverse floating rate securities entails risks not associated with an investment in conventional fixed rate securities or securities linked to established market indices.***

The Federal Reserve Bank of New York began to publish SOFR in April 2018 and compounded averages of SOFR in March 2020. Although the Federal Reserve Bank of New York has also published historical indicative SOFR from August 2014 to March 2018, such pre-publication data necessarily involves assumptions, estimates and approximations. You should not rely on any historical changes or trends in SOFR as an indicator of future changes in SOFR. Daily shifts in SOFR have been, and may in the future be, greater than those in comparable market indices. Because the interest rate applicable to any accrual period for securities with an interest rate based on SOFR will be calculated by reference to the daily rates of SOFR during an approximate 30-day period commencing and ending before the related accrual period as described under “Description of the Securities — Interest Distributions — Floating Rate and Inverse Floating Rate Classes” in this supplement, the return on and value of the floating rate and inverse floating rate securities may fluctuate more than debt securities linked to less volatile indices.

30-day Average SOFR is a relatively new market index, and the floating rate and inverse floating rate securities will likely have no established trading market when issued, and an established trading market may never develop or, if developed, may not be liquid. Market terms for securities indexed to 30-day Average SOFR may evolve over time, and trading prices of some securities indexed to 30-day Average SOFR may be lower than those of later-issued securities as a

result. Similarly, if 30-day Average SOFR does not prove to be widely used in similar securities, the trading price of related SOFR-Based Classes may be lower than those of securities linked to indices that are more widely used. Investors in SOFR-Based Classes may not be able to sell their securities at all or may not be able to sell their securities at prices that will provide them with a yield comparable to similar investments that have a developed secondary market, and may consequently suffer from increased pricing volatility and market risk.

You should consult your own financial and legal advisors about the risks associated with an investment in the floating rate and inverse floating rate securities and the suitability of investing in the floating rate and inverse floating rate securities in light of your particular circumstances.

***Interest on the floating rate and inverse floating rate securities will be determined using a replacement rate if 30-day Average SOFR is no longer available, which could adversely affect the value of your investment in the floating rate and inverse floating rate securities.*** 30-day Average SOFR is published by the Federal Reserve Bank of New York based on data received from other sources, and neither Ginnie Mae nor the trustee has any control over its determination, calculation or publication. The activities of the Federal Reserve Bank of New York may directly affect prevailing 30-day Average SOFR in unpredictable ways. There can be no guarantee that 30-day Average SOFR will not be discontinued or fundamentally altered in a manner that is materially adverse to the interests of holders of securities indexed to 30-day Average SOFR. If the manner in which 30-day Average SOFR is calculated is changed or if 30-day Average SOFR is discontinued, that change or discontinuance may result in a reduction of the amount of interest payable on applicable SOFR-Based Classes and the trading prices of such Classes.

The Federal Reserve Bank of New York has noted that it may alter the methods of calculation, publication schedule, rate revision practices or availability of 30-day Average SOFR at any

time without notice. There can be no assurance that 30-day Average SOFR will not be discontinued or fundamentally altered in a manner that is materially adverse to the interests of investors in the floating rate and inverse floating rate securities.

If 30-day Average SOFR is no longer published or cannot be used, the amount of interest payable on the floating rate and inverse floating rate securities will be determined using a replacement rate, as described under “Description of the Securities — Interest Rate Indices — Benchmark Replacement” in the base offering circular. Ginnie Mae will have the sole discretion to make conforming changes in connection with any replacement rate without the consent of security holders or any other party, as described under “Description of the Securities — Interest Rate Indices — Benchmark Replacement” in the base offering circular. This could reduce the amount of interest payable on the floating rate and inverse floating rate securities, which could adversely affect the return on, value of, and market for, the floating rate and inverse floating rate securities. Furthermore, there can be no assurance that the characteristics of any replacement rate will be similar to 30-day Average SOFR or that any replacement rate will produce the economic equivalent of 30-day Average SOFR.

***The securities may not be a suitable investment for you.*** The securities, in particular, the support, interest only, inverse floating rate, accrual and residual classes, are not suitable investments for all investors.

In addition, although the sponsor intends to make a market for the purchase and sale of the securities after their initial issuance, it has no obligation to do so. There is no assurance that a secondary market will develop, that any secondary market will continue, or that the price at which you can sell an investment in any class will enable you to realize a desired yield on that investment.

You will bear the market risks of your investment. The market values of the classes are likely

to fluctuate. These fluctuations may be significant and could result in significant losses to you.

The secondary markets for mortgage-related securities have experienced periods of illiquidity and can be expected to do so in the future. Illiquidity can have a severely adverse effect on the prices of classes that are especially sensitive to prepayment or interest rate risk or that have been structured to meet the investment requirements of limited categories of investors.

The residual securities may experience significant adverse tax timing consequences. Accordingly, you are urged to consult tax advisors and to consider the after-tax effect of ownership of a residual security and the suitability of the residual securities to your investment objectives. See *“Certain United States Federal Income Tax Consequences” in this supplement and in the base offering circular.*

You are encouraged to consult advisors regarding the financial, legal, tax and other aspects of an investment in the securities. You should not purchase the securities of any class unless you understand and are able to bear the prepayment, yield, liquidity and market risks associated with that class.

***The actual characteristics of the underlying mortgage loans will affect the weighted average lives and yields of your securities.***

The yield and decrement tables in this supplement are based on assumed characteristics which are likely to be different from the actual characteristics. As a result, the yields on your securities could be lower than you expected, even if the mortgage loans prepay at the constant prepayment rates set forth in the applicable table.

It is highly unlikely that the underlying mortgage loans will prepay at any of the prepayment rates assumed in this supplement, or at any constant prepayment rate.

## THE TRUST ASSETS

### General

The Sponsor intends to acquire the Trust Assets in privately negotiated transactions prior to the Closing Date and to sell them to the Trust according to the terms of a Trust Agreement between the Sponsor and the Trustee. The Sponsor will make certain representations and warranties with respect to the Trust Assets. All Trust Assets will evidence, directly or indirectly, Ginnie Mae Certificates.

### The Trust MBS

The Trust Assets are either:

1. Ginnie Mae II MBS Certificates guaranteed by Ginnie Mae, or
2. Ginnie Mae Platinum Certificates backed by Ginnie Mae II MBS Certificates and guaranteed by Ginnie Mae.

Each Mortgage Loan underlying a Ginnie Mae II MBS Certificate issued prior to July 1, 2003 bears interest at a Mortgage Rate 0.50% to 1.50% per annum greater than the related Certificate Rate. Each Mortgage Loan underlying a Ginnie Mae II MBS Certificate issued on or after July 1, 2003 bears interest at a Mortgage Rate 0.25% to 0.75% per annum greater than the related Certificate Rate. Ginnie Mae receives a fee (the “Ginnie Mae Certificate Guaranty Fee”) for its guaranty of each Ginnie Mae II MBS Certificate of 0.06% per annum of the outstanding principal balance of each related Mortgage Loan. The difference between (a) the Mortgage Rate and (b) the sum of the Certificate Rate and the rate of the Ginnie Mae Certificate Guaranty Fee is used to pay the related servicers of the Mortgage Loans a monthly servicing fee.

### The Mortgage Loans

The Mortgage Loans underlying the Trust Assets are expected to have, on a weighted average basis, the characteristics set forth in the Terms Sheet under “Assumed Characteristics of the Mortgage Loans Underlying the Trust Assets” and the general characteristics described in the Base Offering Circular. The Mortgage Loans will consist of first lien, single-family, fixed rate, residential mortgage loans that are insured or guaranteed by the Federal Housing Administration, the United States Department of Veterans Affairs, Rural Development (formerly the Rural Housing Service) or the United States Department of Housing and Urban Development (“HUD”). See *“The Ginnie Mae Certificates — General” in the Base Offering Circular.*

Specific information regarding the characteristics of the Mortgage Loans underlying the Trust MBS is not available. For purposes of this Supplement, certain assumptions have been made regarding the remaining terms to maturity, loan ages and Mortgage Rates of the Mortgage Loans underlying the Trust MBS. However, the actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans will differ from the characteristics assumed, perhaps significantly. This will be the case even if the weighted average characteristics of the Mortgage Loans are the same as the assumed characteristics. Small differences in the characteristics of the Mortgage Loans can have a significant effect on the Weighted Average Lives and yields of the Securities. See *“Risk Factors” and “Yield, Maturity and Prepayment Considerations” in this Supplement.*

### The Trustee Fee

The Sponsor will contribute certain Ginnie Mae Certificates in respect of the Trustee Fee. On each Distribution Date, the Trustee will retain all principal and interest distributions received on such Ginnie Mae Certificates in payment of the Trustee Fee.

## **GINNIE MAE GUARANTY**

The Government National Mortgage Association (“Ginnie Mae”), a wholly-owned corporate instrumentality of the United States of America within HUD, guarantees the timely payment of principal and interest on the Securities. The General Counsel of HUD has provided an opinion to the effect that Ginnie Mae has the authority to guarantee multiclass securities and that Ginnie Mae guaranties will constitute general obligations of the United States, for which the full faith and credit of the United States is pledged. See *“Ginnie Mae Guaranty” in the Base Offering Circular*.

## **DESCRIPTION OF THE SECURITIES**

### **General**

The description of the Securities contained in this Supplement is not complete and is subject to, and is qualified in its entirety by reference to, all of the provisions of the Trust Agreement. See *“Description of the Securities” in the Base Offering Circular*.

### **Form of Securities**

Each Class of Securities other than the Residual Securities initially will be issued and maintained, and may be transferred only on the Fedwire Book-Entry System. Beneficial Owners of Book-Entry Securities will ordinarily hold these Securities through one or more financial intermediaries, such as banks, brokerage firms and securities clearing organizations that are eligible to maintain book-entry accounts on the Fedwire Book-Entry System. By request accompanied by the payment of a transfer fee of \$25,000 per Certificated Security to be issued, a Beneficial Owner may receive a Regular Security in certificated form.

The Residual Securities will not be issued in book-entry form but will be issued in fully registered, certificated form and may be transferred or exchanged, subject to the transfer restrictions applicable to Residual Securities set forth in the Trust Agreement, at the Corporate Trust Office of the Trustee. See *“Description of the Securities — Forms of Securities; Book-Entry Procedures” in the Base Offering Circular*.

Each Regular and MX Class (other than the Increased Minimum Denomination Classes) will be issued in minimum dollar denominations of initial principal balance of \$1,000 and integral multiples of \$1 in excess of \$1,000. The Increased Minimum Denomination Classes will be issued in minimum denominations that equal \$100,000 in initial principal or notional balance.

### **Distributions**

Distributions on the Securities will be made on each Distribution Date as specified under “Terms Sheet — Distribution Date” in this Supplement. On each Distribution Date for a Security, or in the case of the Certificated Securities, on the first Business Day after the related Distribution Date, the Distribution Amount will be distributed to the Holders of record as of the related Record Date. Beneficial Owners of Book-Entry Securities will receive distributions through credits to accounts maintained for their benefit on the books and records of the appropriate financial intermediaries. Holders of Certificated Securities will receive distributions by check or, subject to the restrictions set forth in the Base Offering Circular, by wire transfer. See *“Description of the Securities — Distributions” and “— Method of Distributions” in the Base Offering Circular*.

## Interest Distributions

The Interest Distribution Amount will be distributed on each Distribution Date to the Holders of all Classes of Securities entitled to distributions of interest.

- Interest will be calculated on the basis of a 360-day year consisting of twelve 30-day months.
- Interest distributable (or accrued in the case of an Accrual Class) on any Class for any Distribution Date will consist of 30 days' interest on its Class Principal Balance (or Class Notional Balance) as of the related Record Date.
- Investors can calculate the amount of interest to be distributed (or accrued in the case of an Accrual Class) on each Class of Securities for any Distribution Date by using the Class Factors published in the preceding month. See “— Class Factors” below.

### *Categories of Classes*

For purposes of interest distributions, the Classes will be categorized as shown under “Interest Type” on the front cover of this Supplement and on Schedule I to this Supplement. The abbreviations used in this Supplement to describe the interest entitlements of the Classes are explained under “Class Types” in Appendix I to the Base Offering Circular.

### *Accrual Periods*

The Accrual Period for each Regular and MX Class is set forth in the table below:

<u>Class</u>	<u>Accrual Period</u>
Fixed Rate Classes	The calendar month preceding the related Distribution Date
Floating Rate and Inverse Floating Rate Classes	From the 20th day of the month preceding the month of the related Distribution Date through the 19th day of the month of that Distribution Date

### *Fixed Rate Classes*

Each Fixed Rate Class will bear interest at the per annum Interest Rate shown on the front cover of this Supplement or on Schedule I to this Supplement.

### *Floating Rate and Inverse Floating Rate Classes*

The Floating Rate and Inverse Floating Rate Classes will bear interest as shown under “Terms Sheet — Interest Rates” in this Supplement. The Interest Rates for the Floating Rate and Inverse Floating Rate Classes will be based on 30-day Average SOFR as described below.

The Interest Rate for the Floating Rate and Inverse Floating Rate Classes will be based on 30-day Average SOFR. The Trustee or its agent will determine 30-day Average SOFR as described under “Description of the Securities — Interest Rate Indices — Determination of 30-day Average SOFR” in the Base Offering Circular.

If 30-day Average SOFR ceases to be available or is no longer representative, a replacement rate will be selected, as described under “Description of the Securities — Interest Rate Indices — Benchmark Replacement” in the Base Offering Circular.

The Trustee’s determination of 30-day Average SOFR and its calculation of the Interest Rates will be final except in the case of clear error. Investors can obtain 30-day Average SOFR levels and Interest Rates

for the current and preceding Accrual Periods on [ginniemae.gov](http://ginniemae.gov) or by calling the Information Agent at (800) 234-GNMA.

#### *Accrual Classes*

Each of Classes AZ, BZ, GZ, PZ, UZ, ZB, ZC, ZP and ZU is an Accrual Class. Interest will accrue on the Accrual Classes and be distributed as described under “Terms Sheet — Accrual Classes” in this Supplement.

#### **Principal Distributions**

The Principal Distribution Amount for each Group or Subgroup, as applicable, and each Accrual Amount will be distributed to the Holders entitled thereto as described under “Terms Sheet — Allocation of Principal” in this Supplement. Investors can calculate the amount of principal to be distributed with respect to any Distribution Date by using the Class Factors published in the preceding and current months. See “— Class Factors” below.

#### *Categories of Classes*

For purposes of principal distributions, the Classes will be categorized as shown under “Principal Type” on the front cover of this Supplement and on Schedule I to this Supplement. The abbreviations used in this Supplement to describe the principal entitlements of the Classes are explained under “Class Types” in Appendix I to the Base Offering Circular.

#### *Notional Classes*

The Notional Classes will not receive principal distributions. For convenience in describing interest distributions, the Notional Classes will have the original Class Notional Balances shown on the front cover of this Supplement and on Schedule I to this Supplement. The Class Notional Balances will be reduced as shown under “Terms Sheet — Notional Classes” in this Supplement.

#### **Residual Securities**

The Residual Securities will represent the beneficial ownership of the Residual Interest in the Trust REMIC, as described in “Certain United States Federal Income Tax Consequences” in this Supplement and the Base Offering Circular. The Residual Securities have no Class Principal Balance and do not accrue interest. The Residual Securities will be entitled to receive the proceeds of the disposition of any assets remaining in the Trust REMIC after the Class Principal Balance or Class Notional Balance of each Class of Regular Securities has been reduced to zero. However, any remaining proceeds are not likely to be significant. The Residual Securities may not be transferred to a Plan Investor, a Non-U.S. Person or a Disqualified Organization.

#### **Class Factors**

The Trustee will calculate and make available for each Class of Securities, no later than the day preceding the Distribution Date, the factor (carried out to eight decimal places) that when multiplied by the Original Class Principal Balance (or original Class Notional Balance) of that Class, determines the Class Principal Balance (or Class Notional Balance) after giving effect to the distribution of principal to be made on the Securities (and any addition to the Class Principal Balance of an Accrual Class) or any reduction of Class Notional Balance on that Distribution Date (each, a “Class Factor”).

- The Class Factor for any Class of Securities for each month following the issuance of the Securities will reflect its remaining Class Principal Balance (or Class Notional Balance) after giving effect to any principal distribution (or addition to principal) to be made or any reduction of Class Notional Balance on the Distribution Date occurring in that month.

- The Class Factor for each Class for the month of issuance is 1.00000000.
- The Class Factors for the MX Classes and the Classes of REMIC Securities that are exchangeable for the MX Classes will be calculated assuming that the maximum possible amount of each Class is outstanding at all times, regardless of any exchanges that may occur.
- Based on the Class Factors published in the preceding and current months (and Interest Rates), investors in any Class (other than an Accrual Class) can calculate the amount of principal and interest to be distributed to that Class and investors in an Accrual Class can calculate the total amount of principal to be distributed to (or interest to be added to the Class Principal Balance of) that Class on the Distribution Date in the current month.
- Investors may obtain current Class Factors on [ginniemae.gov](http://ginniemae.gov).

See “Description of the Securities — Distributions” in the Base Offering Circular.

### **Termination**

The Trustee, at its option, may purchase or cause the sale of the Trust Assets and thereby terminate the Trust on any Distribution Date on which the aggregate of the Class Principal Balances of the Securities is less than 1% of the aggregate Original Class Principal Balances of the Securities. The exercise of this option may be influenced by a number of factors, including but not limited to, the value of the Trust Assets then remaining in the Trust and general market conditions. The Trustee will be entitled to retain all proceeds and any other amounts in excess of the termination price payable to the Securities under the Trust Agreement.

On any Distribution Date upon the Trustee’s determination that the REMIC status of the Trust REMIC has been lost or that a substantial risk exists that this status will be lost for the then current taxable year, the Trustee will terminate the Trust and retire the Securities.

Upon any termination of the Trust, the Holder of any outstanding Security (other than a Residual or Notional Class Security) will be entitled to receive that Holder’s allocable share of the Class Principal Balance of that Class plus any accrued and unpaid interest thereon at the applicable Interest Rate, and any Holder of any outstanding Notional Class Security will be entitled to receive that Holder’s allocable share of any accrued and unpaid interest thereon at the applicable Interest Rate. The Residual Holders will be entitled to their pro rata share of any assets remaining in the Trust REMIC after payment in full of the amounts described in the foregoing sentence. However, any remaining assets are not likely to be significant.

### **Modification and Exchange**

All or a portion of the Classes of REMIC Securities specified on the front cover may be exchanged for a proportionate interest in the related MX Class or Classes shown on Schedule I to this Supplement. Similarly, all or a portion of the related MX Class or Classes may be exchanged for proportionate interests in the related Class or Classes of REMIC Securities and, in the case of Combinations 1, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 24, 25, 27, 28, 30, 31, 32, 33 and 36, other related MX Classes. This process may occur repeatedly.

Each exchange may be effected only in proportions that result in the principal and interest entitlements of the Securities received being equal to the entitlements of the Securities surrendered.

In the case of Combinations 1, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 24, 25, 27, 28, 30, 31, 32, 33 and 36, the related REMIC Securities may be exchanged for proportionate interests in various subcombinations of MX Classes. Similarly, all or a portion of these MX Classes may be exchanged for proportionate interests in the related REMIC Securities or in other subcombinations of the related MX



Classes. Each subcombination may be effected only in proportions that result in the principal and interest entitlements of the Securities received being equal to the entitlements of the Securities surrendered. *See the example under “Description of the Securities — Modification and Exchange” in the Base Offering Circular.*

A Beneficial Owner proposing to effect an exchange must notify the Trustee through the Beneficial Owner’s Book-Entry Depository participant. This notice must be received by the Trustee not later than two Business Days before the proposed exchange date. The exchange date can be any Business Day other than the last Business Day of the month. The notice must contain the outstanding principal or notional balances of the Securities to be included in the exchange and the proposed exchange date. The notice is required to be delivered to the Trustee by email to USBGNMATEam@USBank.com or in writing at its Corporate Trust Office at U.S. Bank National Association, One Federal Street, 3rd Floor, Boston, MA 02110, Attention: Ginnie Mae REMIC Program Agency Group 2024-184. The Trustee may be contacted by telephone at (617) 603-6451 and by fax at (617) 603-6644.

A fee will be payable to the Trustee in connection with each exchange equal to  $\frac{1}{32}$  of 1% of the outstanding principal balance (or notional balance) of the Securities surrendered for exchange (but not less than \$2,000 or more than \$25,000); provided, however, that no fee will be payable in respect of an interest only security unless all securities involved in the exchange are interest only securities. The fee must be paid concurrently with the exchange.

The first distribution on a REMIC Security or an MX Security received in an exchange will be made on the Distribution Date in the month following the month of the exchange. The distribution will be made to the Holder of record as of the Record Date in the month of exchange.

*See “Description of the Securities — Modification and Exchange” in the Base Offering Circular.*

## **YIELD, MATURITY AND PREPAYMENT CONSIDERATIONS**

### **General**

The prepayment experience of the Mortgage Loans will affect the Weighted Average Lives of and the yields realized by investors in the related Securities.

- The Mortgage Loans do not contain “due-on-sale” provisions, and any Mortgage Loan may be prepaid in full or in part at any time without penalty.
- The rate of payments (including prepayments and payments in respect of liquidations) on the Mortgage Loans is dependent on a variety of economic, geographic, social and other factors, including prevailing market interest rates and general economic factors.

The rate of prepayments with respect to single-family mortgage loans has fluctuated significantly in recent years. Although there is no assurance that prepayment patterns for the Mortgage Loans will conform to patterns for more traditional types of conventional fixed rate mortgage loans, generally:

- if mortgage interest rates fall materially below the Mortgage Rates on any of the Mortgage Loans (giving consideration to the cost of refinancing), the rate of prepayment of those Mortgage Loans would be expected to increase; and
- if mortgage interest rates rise materially above the Mortgage Rates on any of the Mortgage Loans, the rate of prepayment of those Mortgage Loans would be expected to decrease.

In addition, following any Mortgage Loan default and the subsequent liquidation of the underlying Mortgaged Property, the principal balance of the Mortgage Loan will be distributed through a

combination of liquidation proceeds, advances from the related Ginnie Mae Issuer and, to the extent necessary, proceeds of Ginnie Mae's guaranty of the Ginnie Mae Certificates. As a result, defaults experienced on the Mortgage Loans will accelerate the distribution of principal of the Securities.

The terms of the Mortgage Loans may be modified to permit, among other things, a partial release of security, which releases a portion of the mortgaged property from the lien securing the related Mortgage Loan. Partial releases of security may allow the related borrower to sell the released property and generate proceeds that may be used to prepay the related Mortgage Loan in whole or in part.

Under certain circumstances, the Trustee has the option to purchase the Trust Assets, thereby effecting early retirement of the Securities. See "Description of the Securities — Termination" in this Supplement.

**Accretion Directed Classes**

Classes AP, AV, BV, GV, PA, PX, PZ, VC and ZP are Accretion Directed Classes. The related Accrual Amounts will be applied to making principal distributions on those Classes as described in this Supplement.

Each of the Accretion Directed Classes (other than Classes BV and GV) has the AD designation in the suffix position, rather than the prefix position, in its class principal type because it does not have principal payment stability through the applicable pricing prepayment assumption. Classes AV, BV, GV and VC will have principal payment stability only through the prepayment rate shown in the table below. The remaining Accretion Directed Classes are not listed in the table below because, although they are entitled to receive payments from the related Accrual Amounts, they do not have principal payment stability through any constant prepayment rate significantly higher than 0% PSA, except within their Effective Ranges.

The Accretion Directed Classes are entitled to principal payments in an amount equal to interest accrued on the related Accrual Classes. With respect to the Classes listed in the table below, the Weighted Average Life of each such Class cannot exceed its Weighted Average Life as shown in the following table under any constant prepayment scenario, even a scenario where there are no prepayments.

- Moreover, based on the Modeling Assumptions, if the related Mortgage Loans prepay at any constant rate at or below the rate for an Accretion Directed Class shown in the table below, the Class Principal Balance of such Class would be reduced to zero on, but not before, its Final Distribution Date, and the Weighted Average Life of such Class would equal its maximum Weighted Average Life shown in the table below.
- However, the Weighted Average Lives of Classes AV, BV, GV and VC will be reduced at prepayment speeds higher than the constant rates shown in the table below. See "Yield, Maturity and Prepayment Considerations — Decrement Tables" in this Supplement.

**Accretion Directed Classes**

<u>Security Group</u>	<u>Class</u>	<u>Maximum Weighted Average Life (in years)<sup>(1)</sup></u>	<u>Final Distribution Date</u>	<u>Prepayment Rate at or below</u>
5	AV . . . . .	6.0	October 2035	223% PSA
7	VC . . . . .	6.0	November 2035	146% PSA
10	BV . . . . .	6.0	February 2036	154% PSA
10	GV . . . . .	6.0	February 2036	150% PSA

<sup>(1)</sup> The maximum Weighted Average Life for each Class shown in this table is based on the Modeling Assumptions and the assumption that the related Mortgage Loans prepay at any constant rate at or below the rate shown in the table for such Class.

The Mortgage Loans will have characteristics that differ from those of the Modeling Assumptions. Therefore, even if the related Mortgage Loans prepay at a rate at or somewhat below the “at or below” rate shown for Class AV, BV, GV or VC, the Class Principal Balance of such Class could be reduced to zero before its Final Distribution Date, and its Weighted Average Life could be shortened.

**Securities that Receive Principal on the Basis of Schedules**

As described in this Supplement, each PAC Class will receive principal payments in accordance with a schedule calculated on the basis of, among other things, a Structuring Range. See “*Terms Sheet — Scheduled Principal Balances.*” However, whether any such Class will adhere to its schedule and receive “Scheduled Payments” on a Distribution Date will largely depend on the level of prepayments experienced by the related Mortgage Loans.

Each PAC Class exhibits an Effective Range of constant prepayment rates at which such Class will receive Scheduled Payments. That range may differ from the Structuring Range used to create the related principal balance schedule. Based on the Modeling Assumptions, the *initial* Effective Ranges for the PAC Classes are as follows:

<u>Security Group</u>	<u>Initial Effective Ranges</u>
<b>PAC Classes</b>	
2 AP .....	175% PSA through 250% PSA
16 PA and PZ (in the aggregate) .....	200% PSA through 450% PSA
21 PX and ZP (in the aggregate) .....	200% PSA through 450% PSA

- The principal payment stability of the PAC Classes will be supported by the related Support Class.

**If the Class supporting a given Class is retired before the Class being supported is retired, the outstanding Class will no longer have an Effective Range and will become more sensitive to prepayments on the related Mortgage Loans.**

There is no assurance that the related Mortgage Loans will have the characteristics assumed in the Modeling Assumptions, which were used to determine the initial Effective Ranges. If the initial Effective Ranges were calculated using the actual characteristics of the related Mortgage Loans, the initial Effective Ranges could differ from those shown in the above table. Therefore, even if the Mortgage Loans were to prepay at a constant rate within the initial Effective Range shown for any Class in the above table, that Class could fail to receive Scheduled Payments.

Moreover, the related Mortgage Loans will not prepay at any *constant* rate. Non-constant prepayment rates can cause any PAC Class not to receive Scheduled Payments, even if prepayment rates remain within the initial Effective Range for that Class. Further, the Effective Range for any PAC Class can narrow, shift over time or cease to exist depending on the actual characteristics of the related Mortgage Loans.

If the related Mortgage Loans prepay at rates that are generally below the Effective Range for any PAC Class, the amount available to pay principal on the Securities may be insufficient to produce Scheduled Payments on such related PAC Class, and its Weighted Average Life may be extended, perhaps significantly.

If the related Mortgage Loans prepay at rates that are generally above the Effective Range for any PAC Class, its supporting Class may be retired earlier than that PAC Class, and its Weighted Average Life may be shortened, perhaps significantly.

## **Assumability**

Each Mortgage Loan may be assumed, subject to HUD review and approval, upon the sale of the related Mortgaged Property. See *“Yield, Maturity and Prepayment Considerations — Assumability of Government Loans” in the Base Offering Circular.*

## **Final Distribution Date**

The Final Distribution Date for each Class, which is set forth on the front cover of this Supplement or on Schedule I to this Supplement, is the latest date on which the related Class Principal Balance or Class Notional Balance will be reduced to zero.

- The actual retirement of any Class may occur earlier than its Final Distribution Date.
- According to the terms of the Ginnie Mae Guaranty, Ginnie Mae will guarantee payment in full of the Class Principal Balance of each Class of Securities no later than its Final Distribution Date.

## **Modeling Assumptions**

Unless otherwise indicated, the tables that follow have been prepared on the basis of the following assumptions (the “Modeling Assumptions”), among others:

1. The Mortgage Loans underlying the Trust Assets have the assumed characteristics shown under “Assumed Characteristics of the Mortgage Loans Underlying the Trust Assets” in the Terms Sheet, except in the case of information set forth under the 0% PSA Prepayment Assumption Rate, for which each Mortgage Loan is assumed to have an original and a remaining term to maturity of 360 months and a Mortgage Rate of 1.50% per annum higher than the related Certificate Rate.

2. The Mortgage Loans prepay at the constant percentages of PSA (described below) shown in the related table.

3. Distributions on the Securities are always received on the 20th day of the month, whether or not a Business Day, commencing in December 2024.

4. A termination of the Trust does not occur.

5. The Closing Date for the Securities is November 29, 2024.

6. No expenses or fees are paid by the Trust other than the Trustee Fee, which is paid as described under “The Trust Assets — The Trustee Fee” in this Supplement.

7. Each Class is held from the Closing Date and is not exchanged in whole or in part.

When reading the tables and the related text, investors should bear in mind that the Modeling Assumptions, like any other stated assumptions, are unlikely to be entirely consistent with actual experience.

- For example, most of the Mortgage Loans will not have the characteristics assumed, many Distribution Dates will occur on a Business Day after the 20th day of the month, and the Trustee may cause a termination of the Trust as described under “Description of the Securities — Termination” in this Supplement.
- In addition, distributions on the Securities are based on Certificate Factors and Calculated Certificate Factors, as applicable, which may not reflect actual receipts on the Trust Assets.

See *“Description of the Securities — Distributions” in the Base Offering Circular.*

## Decrement Tables

Prepayments of mortgage loans are commonly measured by a prepayment standard or model. The model used in this Supplement, Prepayment Speed Assumption (“PSA”), is the standard prepayment assumption model of The Securities Industry and Financial Markets Association. PSA represents an assumed rate of prepayment each month relative to the then outstanding principal balance of the Mortgage Loans to which the model is applied. See “Yield, Maturity and Prepayment Considerations — Standard Prepayment Assumption Models” in the Base Offering Circular.

The decrement tables set forth below are based on the assumption that the Mortgage Loans prepay at the indicated percentages of PSA (the “PSA Prepayment Assumption Rates”). As used in the tables, each of the PSA Prepayment Assumption Rates reflects a percentage of the 100% PSA assumed prepayment rate. **The Mortgage Loans will not prepay at any of the PSA Prepayment Assumption Rates, and the timing of changes in the rate of prepayments actually experienced on the Mortgage Loans will not follow the pattern described for the PSA assumption.**

The decrement tables set forth below illustrate the percentage of the Original Class Principal Balance (or, in the case of a Notional Class, the original Class Notional Balance) that would remain outstanding following the distribution made each specified month for each Regular or MX Class, based on the assumption that the related Mortgage Loans prepay at the PSA Prepayment Assumption Rates. The percentages set forth in the following decrement tables have been rounded to the nearest whole percentage (including rounding down to zero).

The decrement tables also indicate the Weighted Average Life of each Class under each PSA Prepayment Assumption Rate. The Weighted Average Life of each Class is calculated by:

- (a) multiplying the net reduction, if any, of the Class Principal Balance (or the net reduction of the Class Notional Balance, in the case of a Notional Class) from one Distribution Date to the next Distribution Date by the number of years from the date of issuance thereof to the related Distribution Date,
- (b) summing the results, and
- (c) dividing the sum by the aggregate amount of the assumed net reductions in principal balance or notional balance, as applicable, referred to in clause (a).

The information shown for each Notional Class is for illustrative purposes only, as a Notional Class is not entitled to distributions of principal and has no Weighted Average Life. The Weighted Average Life shown for each Notional Class has been calculated on the assumption that a reduction in the Class Notional Balance thereof is a distribution of principal.

**The Weighted Average Lives are likely to vary, perhaps significantly, from those set forth in the tables below due to the differences between the actual characteristics of the Mortgage Loans underlying the related Trust Assets and the Modeling Assumptions.**

## Percentages of Original Class Principal (or Class Notional) Balances and Weighted Average Lives

Distribution Date	Security Group 1 PSA Prepayment Assumption Rates					
	Classes FA, FB, FE, SA, TA and TB					
	0%	100%	300%	465%	750%	1,000%
Initial Percent	100	100	100	100	100	100
November 2025	99	97	94	91	86	82
November 2026	98	92	82	73	59	48
November 2027	98	86	66	52	33	19
November 2028	97	80	54	37	18	8
November 2029	95	74	44	27	10	3
November 2030	94	69	35	19	5	1
November 2031	93	64	28	13	3	0
November 2032	92	59	23	10	2	0
November 2033	90	54	18	7	1	0
November 2034	89	50	15	5	0	0
November 2035	87	46	12	3	0	0
November 2036	85	42	9	2	0	0
November 2037	83	38	8	2	0	0
November 2038	81	35	6	1	0	0
November 2039	78	32	5	1	0	0
November 2040	75	29	4	1	0	0
November 2041	72	26	3	0	0	0
November 2042	69	23	2	0	0	0
November 2043	66	21	2	0	0	0
November 2044	62	18	1	0	0	0
November 2045	58	16	1	0	0	0
November 2046	53	14	1	0	0	0
November 2047	49	12	1	0	0	0
November 2048	43	10	0	0	0	0
November 2049	37	8	0	0	0	0
November 2050	31	6	0	0	0	0
November 2051	24	4	0	0	0	0
November 2052	17	3	0	0	0	0
November 2053	9	1	0	0	0	0
November 2054	0	0	0	0	0	0
Weighted Average Life (years)	20.8	11.6	5.7	4.0	2.7	2.1

Distribution Date	Security Group 2 PSA Prepayment Assumption Rates																			
	Class AB					Classes AP, IP, PJ, PK, PL, PM, PN and PQ					Class BY					Class ZU				
	0%	175%	210%	250%	500%	0%	175%	210%	250%	500%	0%	175%	210%	250%	500%	0%	175%	210%	250%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	99	96	95	94	90	98	94	94	94	94	100	100	100	100	100	107	107	101	94	53
November 2026	98	86	84	81	66	96	83	83	83	74	100	100	100	100	100	114	114	93	69	0
November 2027	96	73	69	64	38	93	67	67	67	42	100	100	100	100	100	121	121	81	36	0
November 2028	95	61	55	49	17	91	53	53	53	18	100	100	100	100	100	130	130	74	14	0
November 2029	93	50	43	36	2	88	40	40	40	2	100	100	100	100	100	138	138	73	3	0
November 2030	91	40	33	25	0	85	28	28	28	0	100	100	100	100	73	148	147	75	0	0
November 2031	89	32	24	16	0	81	17	17	17	0	100	100	100	100	50	157	153	77	0	0
November 2032	87	24	16	8	0	78	9	9	9	0	100	100	100	100	34	168	154	76	0	0
November 2033	85	17	9	1	0	74	2	2	2	0	100	100	100	100	24	179	151	74	0	0
November 2034	83	11	3	0	0	70	0	0	0	0	100	100	100	87	16	191	107	32	0	0
November 2035	80	6	0	0	0	66	0	0	0	0	100	100	94	72	11	204	56	0	0	0
November 2036	78	1	0	0	0	61	0	0	0	0	100	100	80	59	7	218	10	0	0	0
November 2037	75	0	0	0	0	56	0	0	0	0	100	90	68	49	5	232	0	0	0	0
November 2038	71	0	0	0	0	51	0	0	0	0	100	77	57	40	3	248	0	0	0	0
November 2039	68	0	0	0	0	45	0	0	0	0	100	67	48	33	2	264	0	0	0	0
November 2040	64	0	0	0	0	39	0	0	0	0	100	57	40	27	2	282	0	0	0	0
November 2041	60	0	0	0	0	32	0	0	0	0	100	49	33	22	1	301	0	0	0	0
November 2042	56	0	0	0	0	25	0	0	0	0	100	41	28	17	1	321	0	0	0	0
November 2043	51	0	0	0	0	18	0	0	0	0	100	35	23	14	0	343	0	0	0	0
November 2044	46	0	0	0	0	9	0	0	0	0	100	29	18	11	0	366	0	0	0	0
November 2045	41	0	0	0	0	1	0	0	0	0	100	24	15	9	0	390	0	0	0	0
November 2046	35	0	0	0	0	0	0	0	0	0	100	19	12	7	0	340	0	0	0	0
November 2047	29	0	0	0	0	0	0	0	0	0	100	15	9	5	0	280	0	0	0	0
November 2048	22	0	0	0	0	0	0	0	0	0	100	12	7	4	0	215	0	0	0	0
November 2049	15	0	0	0	0	0	0	0	0	0	100	9	5	3	0	145	0	0	0	0
November 2050	7	0	0	0	0	0	0	0	0	0	100	6	4	2	0	70	0	0	0	0
November 2051	0	0	0	0	0	0	0	0	0	0	96	4	2	1	0	0	0	0	0	0
November 2052	0	0	0	0	0	0	0	0	0	0	67	2	1	1	0	0	0	0	0	0
November 2053	0	0	0	0	0	0	0	0	0	0	35	1	0	0	0	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.7	5.5	4.8	4.3	2.6	13.1	4.4	4.4	4.4	2.8	28.5	17.9	16.0	14.1	7.8	24.2	10.6	7.9	2.7	1.0

**Security Group 3  
PSA Prepayment Assumption Rates**

Distribution Date	Classes AF, AS, FG and TK				
	0%	100%	260%	450%	600%
Initial Percent	100	100	100	100	100
November 2025	99	97	94	91	89
November 2026	98	92	83	73	66
November 2027	97	86	70	53	42
November 2028	96	79	58	38	27
November 2029	95	73	48	28	17
November 2030	93	68	40	20	11
November 2031	92	63	33	14	7
November 2032	90	58	27	10	4
November 2033	89	53	23	7	3
November 2034	87	49	19	5	2
November 2035	85	45	15	4	1
November 2036	83	41	13	3	1
November 2037	80	37	10	2	0
November 2038	78	34	8	1	0
November 2039	75	31	7	1	0
November 2040	73	28	6	1	0
November 2041	70	25	4	0	0
November 2042	66	22	4	0	0
November 2043	63	19	3	0	0
November 2044	59	17	2	0	0
November 2045	55	15	2	0	0
November 2046	50	13	1	0	0
November 2047	46	11	1	0	0
November 2048	40	9	1	0	0
November 2049	35	7	1	0	0
November 2050	29	6	0	0	0
November 2051	22	4	0	0	0
November 2052	16	2	0	0	0
November 2053	8	1	0	0	0
November 2054	0	0	0	0	0
Weighted Average Life (years)	20.2	11.3	6.3	4.0	3.2

**Security Group 4  
PSA Prepayment Assumption Rates**

Distribution Date	Class CF						Class CS						Class NS						
	0%	100%	350%	580%	900%	1,200%	0%	100%	350%	580%	900%	1,200%	0%	100%	350%	580%	900%	1,200%	
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	99	98	94	90	86	81	99	98	94	90	86	81	99	98	94	90	86	81	
November 2026	99	93	80	69	55	42	99	93	80	69	55	42	99	93	80	69	55	42	
November 2027	98	87	63	45	26	12	98	87	63	45	26	12	98	87	63	45	26	12	
November 2028	97	81	49	29	12	3	97	81	49	29	12	3	97	81	49	29	12	3	
November 2029	96	75	39	19	5	1	96	75	39	19	5	1	96	75	39	19	5	1	
November 2030	95	70	30	12	2	0	95	70	30	12	2	0	95	70	30	12	2	0	
November 2031	94	64	23	8	1	0	94	64	23	8	1	0	94	64	23	8	1	0	
November 2032	92	60	18	5	0	0	92	60	18	5	0	0	92	60	18	5	0	0	
November 2033	91	55	14	3	0	0	91	55	14	3	0	0	91	55	14	3	0	0	
November 2034	89	51	11	2	0	0	89	51	11	2	0	0	89	51	11	2	0	0	
November 2035	88	47	8	1	0	0	88	47	8	1	0	0	88	47	8	1	0	0	
November 2036	86	43	7	1	0	0	86	43	7	1	0	0	86	43	7	1	0	0	
November 2037	84	39	5	1	0	0	84	39	5	1	0	0	84	39	5	1	0	0	
November 2038	82	36	4	0	0	0	82	36	4	0	0	0	82	36	4	0	0	0	
November 2039	79	33	3	0	0	0	79	33	3	0	0	0	79	33	3	0	0	0	
November 2040	77	30	2	0	0	0	77	30	2	0	0	0	77	30	2	0	0	0	
November 2041	74	27	2	0	0	0	74	27	2	0	0	0	74	27	2	0	0	0	
November 2042	71	24	1	0	0	0	71	24	1	0	0	0	71	24	1	0	0	0	
November 2043	67	21	1	0	0	0	67	21	1	0	0	0	67	21	1	0	0	0	
November 2044	64	19	1	0	0	0	64	19	1	0	0	0	64	19	1	0	0	0	
November 2045	59	17	1	0	0	0	59	17	1	0	0	0	59	17	1	0	0	0	
November 2046	55	14	0	0	0	0	55	14	0	0	0	0	55	14	0	0	0	0	
November 2047	50	12	0	0	0	0	50	12	0	0	0	0	50	12	0	0	0	0	
November 2048	45	10	0	0	0	0	45	10	0	0	0	0	45	10	0	0	0	0	
November 2049	39	8	0	0	0	0	39	8	0	0	0	0	39	8	0	0	0	0	
November 2050	32	6	0	0	0	0	32	6	0	0	0	0	32	6	0	0	0	0	
November 2051	25	5	0	0	0	0	25	5	0	0	0	0	25	5	0	0	0	0	
November 2052	18	3	0	0	0	0	18	3	0	0	0	0	18	3	0	0	0	0	
November 2053	9	1	0	0	0	0	9	1	0	0	0	0	9	1	0	0	0	0	
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weighted Average Life (years)	21.0	11.8	5.1	3.4	2.4	1.9	21.0	11.8	5.1	3.4	2.4	1.9	21.0	11.8	5.1	3.4	2.4	1.9	

**Security Group 5  
PSA Prepayment Assumption Rates**

Distribution Date	Class AC						Class AV						Class AY					
	0%	100%	250%	440%	650%	900%	0%	100%	250%	440%	650%	900%	0%	100%	250%	440%	650%	900%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	99	97	93	89	85	79	93	93	93	93	93	93	100	100	100	100	100	100
November 2026	98	90	80	67	54	39	86	86	86	86	86	86	100	100	100	100	100	100
November 2027	97	82	63	42	23	4	78	78	78	78	78	78	100	100	100	100	100	100
November 2028	95	74	49	24	3	0	70	70	70	70	70	0	100	100	100	100	100	53
November 2029	94	67	37	10	0	0	61	61	61	61	0	0	100	100	100	100	68	24
November 2030	92	60	26	0	0	0	52	52	52	52	0	0	100	100	100	100	41	11
November 2031	91	53	18	0	0	0	43	43	43	0	0	0	100	100	100	73	24	5
November 2032	89	47	11	0	0	0	32	32	32	0	0	0	100	100	100	52	15	2
November 2033	87	41	4	0	0	0	22	22	22	0	0	0	100	100	100	38	9	1
November 2034	85	36	0	0	0	0	10	10	5	0	0	0	100	100	97	27	5	0
November 2035	82	31	0	0	0	0	0	0	0	0	0	0	100	100	81	20	3	0
November 2036	80	26	0	0	0	0	0	0	0	0	0	0	100	100	67	14	2	0
November 2037	77	21	0	0	0	0	0	0	0	0	0	0	100	100	55	10	1	0
November 2038	74	17	0	0	0	0	0	0	0	0	0	0	100	100	45	7	1	0
November 2039	71	13	0	0	0	0	0	0	0	0	0	0	100	100	37	5	0	0
November 2040	67	9	0	0	0	0	0	0	0	0	0	0	100	100	30	4	0	0
November 2041	63	6	0	0	0	0	0	0	0	0	0	0	100	100	25	3	0	0
November 2042	59	2	0	0	0	0	0	0	0	0	0	0	100	100	20	2	0	0
November 2043	55	0	0	0	0	0	0	0	0	0	0	0	100	97	16	1	0	0
November 2044	50	0	0	0	0	0	0	0	0	0	0	0	100	85	13	1	0	0
November 2045	45	0	0	0	0	0	0	0	0	0	0	0	100	74	10	1	0	0
November 2046	39	0	0	0	0	0	0	0	0	0	0	0	100	64	8	0	0	0
November 2047	33	0	0	0	0	0	0	0	0	0	0	0	100	54	6	0	0	0
November 2048	27	0	0	0	0	0	0	0	0	0	0	0	100	45	4	0	0	0
November 2049	20	0	0	0	0	0	0	0	0	0	0	0	100	36	3	0	0	0
November 2050	12	0	0	0	0	0	0	0	0	0	0	0	100	28	2	0	0	0
November 2051	3	0	0	0	0	0	0	0	0	0	0	0	100	20	1	0	0	0
November 2052	0	0	0	0	0	0	0	0	0	0	0	0	79	13	1	0	0	0
November 2053	0	0	0	0	0	0	0	0	0	0	0	0	41	6	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.3	8.3	4.3	2.8	2.2	1.7	6.0	6.0	5.9	4.8	3.8	3.0	28.8	23.7	14.7	9.1	6.2	4.5

**PSA Prepayment Assumption Rates**

Distribution Date	Class AZ						Classes BF and TE						Class DF						
	0%	100%	250%	440%	650%	900%	0%	100%	250%	440%	650%	900%	0%	100%	250%	440%	650%	900%	
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	106	106	106	106	106	106	99	97	95	92	88	84	99	97	95	92	88	84	84
November 2026	112	112	112	112	112	112	98	92	84	74	64	52	98	92	84	74	64	52	52
November 2027	118	118	118	118	118	118	97	86	71	54	39	24	97	86	71	54	39	24	24
November 2028	125	125	125	125	125	96	96	80	59	39	23	11	96	80	59	39	23	11	11
November 2029	132	132	132	132	123	44	95	74	50	29	14	5	95	74	50	29	14	5	5
November 2030	139	139	139	139	74	20	94	68	42	21	8	2	94	68	42	21	8	2	2
November 2031	147	147	147	132	44	9	92	63	35	15	5	1	92	63	35	15	5	1	1
November 2032	155	155	155	95	27	4	91	58	29	11	3	0	91	58	29	11	3	0	0
November 2033	164	164	164	69	16	2	89	54	24	8	2	0	89	54	24	8	2	0	0
November 2034	173	173	173	49	9	1	88	49	20	6	1	0	88	49	20	6	1	0	0
November 2035	182	182	147	35	6	0	86	45	17	4	1	0	86	45	17	4	1	0	0
November 2036	182	182	121	25	3	0	84	41	14	3	0	0	84	41	14	3	0	0	0
November 2037	182	182	100	18	2	0	82	38	11	2	0	0	82	38	11	2	0	0	0
November 2038	182	182	82	13	1	0	79	34	9	1	0	0	79	34	9	1	0	0	0
November 2039	182	182	67	9	1	0	77	31	8	1	0	0	77	31	8	1	0	0	0
November 2040	182	182	55	6	0	0	74	28	6	1	0	0	74	28	6	1	0	0	0
November 2041	182	182	45	5	0	0	71	25	5	1	0	0	71	25	5	1	0	0	0
November 2042	182	182	36	3	0	0	68	23	4	0	0	0	68	23	4	0	0	0	0
November 2043	182	176	29	2	0	0	64	20	3	0	0	0	64	20	3	0	0	0	0
November 2044	182	154	23	2	0	0	60	18	3	0	0	0	60	18	3	0	0	0	0
November 2045	182	135	18	1	0	0	56	15	2	0	0	0	56	15	2	0	0	0	0
November 2046	182	116	14	1	0	0	52	13	2	0	0	0	52	13	2	0	0	0	0
November 2047	182	98	11	0	0	0	47	11	1	0	0	0	47	11	1	0	0	0	0
November 2048	182	81	8	0	0	0	42	9	1	0	0	0	42	9	1	0	0	0	0
November 2049	182	65	6	0	0	0	36	7	1	0	0	0	36	7	1	0	0	0	0
November 2050	182	50	4	0	0	0	30	6	0	0	0	0	30	6	0	0	0	0	0
November 2051	182	36	3	0	0	0	23	4	0	0	0	0	23	4	0	0	0	0	0
November 2052	143	23	2	0	0	0	16	3	0	0	0	0	16	3	0	0	0	0	0
November 2053	74	10	1	0	0	0	8	1	0	0	0	0	8	1	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.8	23.7	14.9	9.8	6.9	5.0	20.5	11.4	6.5	4.1	3.0	2.3	20.5	11.4	6.5	4.1	3.0	2.3	2.3



**Security Group 5  
PSA Prepayment Assumption Rates**

Distribution Date	Class DS						Classes EF, FD and TC						Class ES					
	0%	100%	250%	440%	650%	900%	0%	100%	250%	440%	650%	900%	0%	100%	250%	440%	650%	900%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	99	97	95	92	88	84	99	97	95	92	88	84	99	97	95	92	88	84
November 2026	98	92	84	74	64	52	98	92	84	74	64	52	98	92	84	74	64	52
November 2027	97	86	71	54	39	24	97	86	71	54	39	24	97	86	71	54	39	24
November 2028	96	80	59	39	23	11	96	80	59	39	23	11	96	80	59	39	23	11
November 2029	95	74	50	29	14	5	95	74	50	29	14	5	95	74	50	29	14	5
November 2030	94	68	42	21	8	2	94	68	42	21	8	2	94	68	42	21	8	2
November 2031	92	63	35	15	5	1	92	63	35	15	5	1	92	63	35	15	5	1
November 2032	91	58	29	11	3	0	91	58	29	11	3	0	91	58	29	11	3	0
November 2033	89	54	24	8	2	0	89	54	24	8	2	0	89	54	24	8	2	0
November 2034	88	49	20	6	1	0	88	49	20	6	1	0	88	49	20	6	1	0
November 2035	86	45	17	4	1	0	86	45	17	4	1	0	86	45	17	4	1	0
November 2036	84	41	14	3	0	0	84	41	14	3	0	0	84	41	14	3	0	0
November 2037	82	38	11	2	0	0	82	38	11	2	0	0	82	38	11	2	0	0
November 2038	79	34	9	1	0	0	79	34	9	1	0	0	79	34	9	1	0	0
November 2039	77	31	8	1	0	0	77	31	8	1	0	0	77	31	8	1	0	0
November 2040	74	28	6	1	0	0	74	28	6	1	0	0	74	28	6	1	0	0
November 2041	71	25	5	1	0	0	71	25	5	1	0	0	71	25	5	1	0	0
November 2042	68	23	4	0	0	0	68	23	4	0	0	0	68	23	4	0	0	0
November 2043	64	20	3	0	0	0	64	20	3	0	0	0	64	20	3	0	0	0
November 2044	60	18	3	0	0	0	60	18	3	0	0	0	60	18	3	0	0	0
November 2045	56	15	2	0	0	0	56	15	2	0	0	0	56	15	2	0	0	0
November 2046	52	13	2	0	0	0	52	13	2	0	0	0	52	13	2	0	0	0
November 2047	47	11	1	0	0	0	47	11	1	0	0	0	47	11	1	0	0	0
November 2048	42	9	1	0	0	0	42	9	1	0	0	0	42	9	1	0	0	0
November 2049	36	7	1	0	0	0	36	7	1	0	0	0	36	7	1	0	0	0
November 2050	30	6	0	0	0	0	30	6	0	0	0	0	30	6	0	0	0	0
November 2051	23	4	0	0	0	0	23	4	0	0	0	0	23	4	0	0	0	0
November 2052	16	3	0	0	0	0	16	3	0	0	0	0	16	3	0	0	0	0
November 2053	8	1	0	0	0	0	8	1	0	0	0	0	8	1	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.4	6.5	4.1	3.0	2.3	20.5	11.4	6.5	4.1	3.0	2.3	20.5	11.4	6.5	4.1	3.0	2.3

**Security Group 6  
PSA Prepayment Assumption Rates**

Distribution Date	Class PT				
	0%	100%	260%	450%	600%
Initial Percent	100	100	100	100	100
November 2025	99	97	95	92	90
November 2026	98	92	84	75	68
November 2027	97	86	71	55	44
November 2028	96	79	59	39	27
November 2029	95	74	49	28	17
November 2030	93	68	40	20	11
November 2031	92	63	33	14	7
November 2032	90	58	28	10	4
November 2033	89	53	23	7	3
November 2034	87	49	19	5	2
November 2035	85	45	15	4	1
November 2036	83	41	13	3	1
November 2037	80	37	10	2	0
November 2038	78	34	8	1	0
November 2039	75	30	7	1	0
November 2040	73	27	6	1	0
November 2041	70	24	4	0	0
November 2042	66	22	4	0	0
November 2043	63	19	3	0	0
November 2044	59	17	2	0	0
November 2045	55	15	2	0	0
November 2046	50	12	1	0	0
November 2047	46	10	1	0	0
November 2048	40	8	1	0	0
November 2049	35	7	1	0	0
November 2050	29	5	0	0	0
November 2051	22	3	0	0	0
November 2052	16	2	0	0	0
November 2053	8	1	0	0	0
November 2054	0	0	0	0	0
Weighted Average Life (years)	20.2	11.3	6.3	4.1	3.3

**Security Group 7  
PSA Prepayment Assumption Rates**

Distribution Date	Class C					Classes CA and CD					Class CB					Class CY					
	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%	
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
November 2025	99	97	95	92	90	98	96	93	89	87	100	100	100	100	100	100	100	100	100	100	
November 2026	98	91	83	75	69	97	88	77	66	59	100	100	100	100	100	100	100	100	100	100	
November 2027	96	84	68	54	45	95	79	57	38	26	100	100	100	100	100	100	100	100	100	100	
November 2028	95	77	55	37	27	93	69	39	15	2	100	100	100	100	100	100	100	100	100	100	
November 2029	93	70	44	25	15	91	60	25	0	0	100	100	100	100	100	100	100	100	98	72	
November 2030	92	64	35	16	7	89	52	12	0	0	100	100	100	100	100	100	100	100	73	49	
November 2031	90	58	27	9	1	87	44	2	0	0	100	100	100	100	100	100	100	100	54	34	
November 2032	88	53	21	3	0	84	36	0	0	0	100	100	100	100	74	100	100	87	41	23	
November 2033	86	47	15	0	0	82	29	0	0	0	100	100	100	96	51	100	100	72	30	16	
November 2034	84	42	11	0	0	79	23	0	0	0	100	100	100	71	35	100	100	60	22	11	
November 2035	82	38	7	0	0	76	16	0	0	0	100	100	100	53	24	100	100	49	17	7	
November 2036	79	34	4	0	0	72	11	0	0	0	100	100	100	39	16	100	100	41	12	5	
November 2037	77	30	1	0	0	69	5	0	0	0	100	100	100	29	11	100	100	34	9	3	
November 2038	74	26	0	0	0	65	0	0	0	0	100	100	88	21	7	100	100	28	7	2	
November 2039	71	22	0	0	0	61	0	0	0	0	100	100	72	15	5	100	91	23	5	2	
November 2040	68	19	0	0	0	57	0	0	0	0	100	100	58	11	3	100	82	18	4	1	
November 2041	64	16	0	0	0	52	0	0	0	0	100	100	47	8	2	100	73	15	3	1	
November 2042	61	13	0	0	0	47	0	0	0	0	100	100	38	6	1	100	65	12	2	0	
November 2043	57	10	0	0	0	42	0	0	0	0	100	100	31	4	1	100	58	10	1	0	
November 2044	52	7	0	0	0	36	0	0	0	0	100	100	24	3	1	100	51	8	1	0	
November 2045	48	5	0	0	0	30	0	0	0	0	100	100	19	2	0	100	44	6	1	0	
November 2046	43	2	0	0	0	23	0	0	0	0	100	100	15	1	0	100	38	5	0	0	
November 2047	38	0	0	0	0	16	0	0	0	0	100	100	11	1	0	100	32	4	0	0	
November 2048	32	0	0	0	0	8	0	0	0	0	100	84	8	1	0	100	26	3	0	0	
November 2049	26	0	0	0	0	0	0	0	0	0	100	68	6	0	0	100	21	2	0	0	
November 2050	19	0	0	0	0	0	0	0	0	0	100	52	4	0	0	83	16	1	0	0	
November 2051	12	0	0	0	0	0	0	0	0	0	100	38	3	0	0	64	12	1	0	0	
November 2052	5	0	0	0	0	0	0	0	0	0	100	24	2	0	0	44	7	1	0	0	
November 2053	0	0	0	0	0	0	0	0	0	0	73	11	1	0	0	23	3	0	0	0	
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weighted Average																					
Life (years)	18.8	9.6	5.2	3.6	3.1	16.0	6.6	3.6	2.6	2.3	29.3	26.3	17.8	12.1	9.8	27.7	20.7	12.3	8.3	6.8	

**PSA Prepayment Assumption Rates**

Distribution Date	Classes FC and SC					Class VC					Class ZC										
	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%						
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100						
November 2025	99	97	95	93	91	93	93	93	93	93	105	105	105	105	105						
November 2026	98	92	85	77	73	86	86	86	86	86	110	110	110	110	110						
November 2027	97	86	71	58	51	78	78	78	78	78	116	116	116	116	116						
November 2028	95	79	60	44	35	70	70	70	70	70	122	122	122	122	122						
November 2029	94	73	50	33	24	61	61	61	56	0	128	128	128	128	124						
November 2030	93	68	42	24	17	52	52	52	0	0	135	135	135	126	85						
November 2031	91	63	35	18	11	43	43	43	0	0	142	142	142	94	59						
November 2032	89	58	29	14	8	33	33	1	0	0	149	149	149	70	40						
November 2033	88	53	24	10	5	22	22	0	0	0	157	157	124	52	28						
November 2034	86	49	20	7	4	11	11	0	0	0	165	165	103	39	19						
November 2035	84	44	17	6	2	0	0	0	0	0	173	173	85	29	13						
November 2036	82	41	14	4	2	0	0	0	0	0	173	173	70	21	9						
November 2037	79	37	11	3	1	0	0	0	0	0	173	173	58	16	6						
November 2038	77	33	9	2	1	0	0	0	0	0	173	173	48	11	4						
November 2039	74	30	8	2	1	0	0	0	0	0	173	156	39	8	3						
November 2040	71	27	6	1	0	0	0	0	0	0	173	141	32	6	2						
November 2041	68	24	5	1	0	0	0	0	0	0	173	126	26	4	1						
November 2042	65	22	4	1	0	0	0	0	0	0	173	112	21	3	1						
November 2043	61	19	3	0	0	0	0	0	0	0	173	99	17	2	1						
November 2044	57	17	3	0	0	0	0	0	0	0	173	87	13	2	0						
November 2045	53	15	2	0	0	0	0	0	0	0	173	76	10	1	0						
November 2046	49	13	2	0	0	0	0	0	0	0	173	65	8	1	0						
November 2047	44	11	1	0	0	0	0	0	0	0	173	55	6	1	0						
November 2048	39	9	1	0	0	0	0	0	0	0	173	46	5	0	0						
November 2049	34	7	1	0	0	0	0	0	0	0	173	37	3	0	0						
November 2050	28	5	0	0	0	0	0	0	0	0	144	28	2	0	0						
November 2051	22	4	0	0	0	0	0	0	0	0	111	20	2	0	0						
November 2052	15	3	0	0	0	0	0	0	0	0	77	13	1	0	0						
November 2053	8	1	0	0	0	0	0	0	0	0	40	6	0	0	0						
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Weighted Average																					
Life (years)	19.9	11.3	6.5	4.5	3.8	6.0	6.0	5.4	4.3	3.8	27.7	20.7	13.0	9.2	7.6						

**Security Group 8  
PSA Prepayment Assumption Rates**

Distribution Date	Classes FH, FL, HF, SH, SL, TG and TH					
	0%	100%	300%	465%	750%	1,000%
Initial Percent	100	100	100	100	100	100
November 2025	99	96	89	83	73	64
November 2026	98	89	73	60	41	27
November 2027	98	83	59	43	23	11
November 2028	97	77	48	31	12	4
November 2029	95	71	39	22	7	2
November 2030	94	66	31	15	4	1
November 2031	93	61	25	11	2	0
November 2032	92	56	20	8	1	0
November 2033	90	52	16	5	1	0
November 2034	89	47	13	4	0	0
November 2035	87	43	10	3	0	0
November 2036	85	40	8	2	0	0
November 2037	83	36	7	1	0	0
November 2038	81	33	5	1	0	0
November 2039	78	30	4	1	0	0
November 2040	75	27	3	0	0	0
November 2041	72	24	3	0	0	0
November 2042	69	21	2	0	0	0
November 2043	66	19	2	0	0	0
November 2044	62	16	1	0	0	0
November 2045	58	14	1	0	0	0
November 2046	53	12	1	0	0	0
November 2047	49	10	0	0	0	0
November 2048	43	8	0	0	0	0
November 2049	37	6	0	0	0	0
November 2050	31	4	0	0	0	0
November 2051	24	3	0	0	0	0
November 2052	17	1	0	0	0	0
November 2053	9	0	0	0	0	0
November 2054	0	0	0	0	0	0
Weighted Average Life (years)	20.8	11.0	5.1	3.4	2.1	1.6

**Security Group 9  
PSA Prepayment Assumption Rates**

Distribution Date	Class A					Class B					Classes FU, GF, GS, SU, TD and UF				
	0%	100%	300%	450%	600%	0%	100%	300%	450%	600%	0%	100%	300%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	99	97	93	90	87	100	100	100	100	100	99	97	94	91	89
November 2026	98	91	79	71	62	100	100	100	100	100	98	92	81	73	66
November 2027	97	84	62	48	36	100	100	100	100	100	97	86	66	53	42
November 2028	95	77	48	32	19	100	100	100	100	100	96	79	53	38	27
November 2029	94	71	37	20	8	100	100	100	100	100	95	73	43	28	17
November 2030	93	64	28	11	1	100	100	100	100	100	93	68	35	20	11
November 2031	91	59	20	5	0	100	100	100	100	69	92	63	28	14	7
November 2032	89	53	14	1	0	100	100	100	100	43	90	58	22	10	4
November 2033	87	48	9	0	0	100	100	100	75	27	89	53	18	7	3
November 2034	85	43	5	0	0	100	100	100	54	17	87	49	14	5	2
November 2035	83	39	2	0	0	100	100	100	38	11	85	45	12	4	1
November 2036	81	34	0	0	0	100	100	96	27	7	83	41	9	3	1
November 2037	78	30	0	0	0	100	100	76	19	4	80	37	7	2	0
November 2038	76	27	0	0	0	100	100	60	14	3	78	34	6	1	0
November 2039	73	23	0	0	0	100	100	48	9	2	75	31	5	1	0
November 2040	70	20	0	0	0	100	100	37	7	1	73	28	4	1	0
November 2041	66	17	0	0	0	100	100	29	5	1	70	25	3	0	0
November 2042	63	14	0	0	0	100	100	23	3	0	66	22	2	0	0
November 2043	59	11	0	0	0	100	100	18	2	0	63	19	2	0	0
November 2044	55	8	0	0	0	100	100	13	2	0	59	17	1	0	0
November 2045	50	6	0	0	0	100	100	10	1	0	55	15	1	0	0
November 2046	45	3	0	0	0	100	100	8	1	0	50	13	1	0	0
November 2047	40	1	0	0	0	100	100	6	0	0	46	11	1	0	0
November 2048	34	0	0	0	0	100	93	4	0	0	40	9	0	0	0
November 2049	28	0	0	0	0	100	74	3	0	0	35	7	0	0	0
November 2050	21	0	0	0	0	100	57	2	0	0	29	6	0	0	0
November 2051	14	0	0	0	0	100	41	1	0	0	22	4	0	0	0
November 2052	7	0	0	0	0	100	26	1	0	0	16	2	0	0	0
November 2053	0	0	0	0	0	84	11	0	0	0	8	1	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	19.2	9.7	4.5	3.3	2.6	29.4	26.6	15.9	11.1	8.3	20.2	11.3	5.6	4.0	3.2

**Security Group 10  
PSA Prepayment Assumption Rates**

Distribution Date	Class BA					Classes BC, BD, BE, BG, BH, BI and BJ					Class BL					Class BV				
	0%	100%	120%	250%	400%	0%	100%	120%	250%	400%	0%	100%	120%	250%	400%	0%	100%	120%	250%	400%
	Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	98	87	86	75	63	98	89	87	78	67	100	100	100	100	100	93	93	93	93	93
November 2026	96	76	73	55	36	96	79	76	60	43	100	100	100	100	100	85	85	85	85	85
November 2027	94	65	61	38	16	94	69	65	45	25	100	100	100	100	100	77	77	77	77	77
November 2028	91	55	50	23	1	92	60	56	32	12	100	100	100	100	100	69	69	69	69	69
November 2029	89	45	40	12	0	90	51	47	22	3	100	100	100	100	23	60	60	60	60	60
November 2030	86	36	31	2	0	88	44	39	13	0	100	100	100	100	0	51	51	51	51	0
November 2031	83	28	22	0	0	85	36	31	6	0	100	100	100	54	0	42	42	42	42	0
November 2032	80	20	15	0	0	83	30	24	0	0	100	100	100	4	0	33	33	33	33	0
November 2033	77	13	8	0	0	80	23	18	0	0	100	100	100	0	0	23	23	23	0	0
November 2034	74	7	1	0	0	77	18	13	0	0	100	100	100	0	0	13	13	13	0	0
November 2035	71	1	0	0	0	74	12	7	0	0	100	100	64	0	0	2	2	2	0	0
November 2036	67	0	0	0	0	71	7	3	0	0	100	61	24	0	0	0	0	0	0	0
November 2037	63	0	0	0	0	68	2	0	0	0	100	21	0	0	0	0	0	0	0	0
November 2038	59	0	0	0	0	64	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2039	55	0	0	0	0	60	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2040	51	0	0	0	0	57	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2041	46	0	0	0	0	53	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2042	42	0	0	0	0	48	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2043	36	0	0	0	0	44	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2044	31	0	0	0	0	39	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2045	26	0	0	0	0	34	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2046	20	0	0	0	0	29	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2047	14	0	0	0	0	24	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2048	7	0	0	0	0	18	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2049	0	0	0	0	0	12	0	0	0	0	100	0	0	0	0	0	0	0	0	0
November 2050	0	0	0	0	0	6	0	0	0	0	48	0	0	0	0	0	0	0	0	0
November 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November 2052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	15.1	4.8	4.4	2.5	1.6	16.3	5.7	5.2	3.1	2.0	26.0	12.3	11.4	7.1	4.7	6.0	6.0	6.0	5.5	4.4

**PSA Prepayment Assumption Rates**

Distribution Date	Class BZ					Classes G, GA, GB, GE, GH, GI and GJ					Classes GC, H, HI, HN, HP, HQ and HT				
	0%	100%	120%	250%	400%	0%	100%	120%	250%	400%	0%	100%	120%	250%	400%
	Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	104	104	104	104	104	97	84	83	70	55	98	89	87	78	67
November 2026	107	107	107	107	107	95	70	66	45	22	96	78	76	60	43
November 2027	111	111	111	111	111	92	57	52	24	0	94	68	65	45	25
November 2028	115	115	115	115	115	89	44	38	6	0	92	59	55	32	12
November 2029	119	119	119	119	119	86	32	26	0	0	90	51	46	22	2
November 2030	123	123	123	123	119	83	21	15	0	0	88	43	38	13	0
November 2031	128	128	128	128	86	80	11	4	0	0	85	36	31	6	0
November 2032	132	132	132	132	62	76	2	0	0	0	83	29	24	0	0
November 2033	137	137	137	120	44	72	0	0	0	0	80	22	17	0	0
November 2034	142	142	142	95	31	68	0	0	0	0	77	17	12	0	0
November 2035	147	147	147	75	22	64	0	0	0	0	74	11	7	0	0
November 2036	148	148	148	58	15	60	0	0	0	0	71	6	2	0	0
November 2037	148	148	138	44	10	55	0	0	0	0	68	1	0	0	0
November 2038	148	136	114	33	7	51	0	0	0	0	64	0	0	0	0
November 2039	148	110	91	24	5	46	0	0	0	0	60	0	0	0	0
November 2040	148	87	71	17	3	40	0	0	0	0	57	0	0	0	0
November 2041	148	65	52	12	2	35	0	0	0	0	53	0	0	0	0
November 2042	148	45	36	7	1	29	0	0	0	0	48	0	0	0	0
November 2043	148	26	21	4	0	23	0	0	0	0	44	0	0	0	0
November 2044	148	9	7	1	0	16	0	0	0	0	39	0	0	0	0
November 2045	148	0	0	0	0	9	0	0	0	0	34	0	0	0	0
November 2046	148	0	0	0	0	2	0	0	0	0	29	0	0	0	0
November 2047	148	0	0	0	0	0	0	0	0	0	24	0	0	0	0
November 2048	148	0	0	0	0	0	0	0	0	0	18	0	0	0	0
November 2049	148	0	0	0	0	0	0	0	0	0	12	0	0	0	0
November 2050	148	0	0	0	0	0	0	0	0	0	6	0	0	0	0
November 2051	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November 2052	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November 2053	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.5	16.8	16.1	12.2	8.8	13.2	3.7	3.3	1.9	1.2	16.3	5.6	5.1	3.1	2.0

**Security Group 10  
PSA Prepayment Assumption Rates**

Distribution Date	Classes GD, GK, GN, GP, GQ, GT and IG					Class GL					Class GM				
	0%	100%	120%	250%	400%	0%	100%	120%	250%	400%	0%	100%	120%	250%	400%
	Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	98	87	85	75	63	100	100	100	100	100	100	100	100	100	100
November 2026	96	75	72	54	35	100	100	100	100	100	100	100	100	100	100
November 2027	93	64	60	36	14	100	100	100	100	100	100	100	100	100	85
November 2028	91	53	49	22	0	100	100	100	100	95	100	100	100	100	0
November 2029	88	44	38	10	0	100	100	100	100	19	100	100	100	60	0
November 2030	86	35	29	0	0	100	100	100	100	0	100	100	100	1	0
November 2031	83	26	20	0	0	100	100	100	46	0	100	100	100	0	0
November 2032	80	18	13	0	0	100	100	100	1	0	100	100	75	0	0
November 2033	77	11	5	0	0	100	100	100	0	0	100	66	32	0	0
November 2034	74	4	0	0	0	100	100	92	0	0	100	26	0	0	0
November 2035	70	0	0	0	0	100	87	51	0	0	100	0	0	0	0
November 2036	67	0	0	0	0	100	47	15	0	0	100	0	0	0	0
November 2037	63	0	0	0	0	100	11	0	0	0	100	0	0	0	0
November 2038	59	0	0	0	0	100	0	0	0	0	100	0	0	0	0
November 2039	55	0	0	0	0	100	0	0	0	0	100	0	0	0	0
November 2040	50	0	0	0	0	100	0	0	0	0	100	0	0	0	0
November 2041	46	0	0	0	0	100	0	0	0	0	100	0	0	0	0
November 2042	41	0	0	0	0	100	0	0	0	0	100	0	0	0	0
November 2043	36	0	0	0	0	100	0	0	0	0	100	0	0	0	0
November 2044	30	0	0	0	0	100	0	0	0	0	100	0	0	0	0
November 2045	25	0	0	0	0	100	0	0	0	0	100	0	0	0	0
November 2046	19	0	0	0	0	100	0	0	0	0	100	0	0	0	0
November 2047	12	0	0	0	0	100	0	0	0	0	74	0	0	0	0
November 2048	6	0	0	0	0	100	0	0	0	0	35	0	0	0	0
November 2049	0	0	0	0	0	93	0	0	0	0	0	0	0	0	0
November 2050	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0
November 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November 2052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	14.9	4.7	4.2	2.5	1.6	25.9	12.0	11.1	7.0	4.6	23.6	9.4	8.6	5.2	3.4

**PSA Prepayment Assumption Rates**

Distribution Date	Class GV					Class GZ					Class ZA				
	0%	100%	120%	250%	400%	0%	100%	120%	250%	400%	0%	100%	120%	250%	400%
	Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	93	93	93	93	93	104	104	104	104	104	104	104	104	104	104
November 2026	85	85	85	85	85	107	107	107	107	107	107	107	107	107	107
November 2027	77	77	77	77	77	111	111	111	111	111	111	111	111	111	111
November 2028	69	69	69	69	69	115	115	115	115	115	115	115	115	115	115
November 2029	60	60	60	60	60	119	119	119	119	119	119	119	119	119	119
November 2030	51	51	51	51	0	123	123	123	123	118	123	123	123	123	118
November 2031	42	42	42	42	0	128	128	128	128	85	128	128	128	128	85
November 2032	33	33	33	33	0	132	132	132	132	61	132	132	132	132	61
November 2033	23	23	23	0	0	137	137	137	118	43	137	137	137	118	43
November 2034	13	13	13	0	0	142	142	142	93	30	142	142	142	93	30
November 2035	2	2	2	0	0	147	147	147	72	21	147	147	147	73	21
November 2036	0	0	0	0	0	148	148	148	56	15	148	148	148	56	15
November 2037	0	0	0	0	0	148	148	133	42	10	148	148	133	43	10
November 2038	0	0	0	0	0	148	129	108	31	7	148	130	108	32	7
November 2039	0	0	0	0	0	148	103	85	23	4	148	104	86	23	4
November 2040	0	0	0	0	0	148	79	65	16	3	148	80	65	16	3
November 2041	0	0	0	0	0	148	57	46	10	2	148	58	47	11	2
November 2042	0	0	0	0	0	148	37	29	6	1	148	38	30	6	1
November 2043	0	0	0	0	0	148	19	15	3	0	148	19	15	3	0
November 2044	0	0	0	0	0	148	1	1	0	0	148	2	2	0	0
November 2045	0	0	0	0	0	148	0	0	0	0	148	0	0	0	0
November 2046	0	0	0	0	0	148	0	0	0	0	148	0	0	0	0
November 2047	0	0	0	0	0	148	0	0	0	0	148	0	0	0	0
November 2048	0	0	0	0	0	148	0	0	0	0	148	0	0	0	0
November 2049	0	0	0	0	0	148	0	0	0	0	148	0	0	0	0
November 2050	0	0	0	0	0	148	0	0	0	0	148	0	0	0	0
November 2051	0	0	0	0	0	141	0	0	0	0	141	0	0	0	0
November 2052	0	0	0	0	0	96	0	0	0	0	96	0	0	0	0
November 2053	0	0	0	0	0	49	0	0	0	0	49	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	6.0	6.0	6.0	5.5	4.4	28.5	16.4	15.8	12.0	8.8	28.5	16.4	15.8	12.1	8.8

**Security Group 11  
PSA Prepayment Assumption Rates**

Distribution Date	Class KA					Class KY				
	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100
November 2025	98	96	93	89	87	100	100	100	100	100
November 2026	97	88	77	66	59	100	100	100	100	100
November 2027	95	79	57	38	27	100	100	100	100	100
November 2028	93	69	40	17	4	100	100	100	100	100
November 2029	91	60	26	0	0	100	100	100	100	74
November 2030	89	52	14	0	0	100	100	100	75	51
November 2031	87	44	3	0	0	100	100	100	56	35
November 2032	84	37	0	0	0	100	100	89	42	24
November 2033	82	30	0	0	0	100	100	74	31	16
November 2034	79	23	0	0	0	100	100	61	23	11
November 2035	76	17	0	0	0	100	100	50	17	8
November 2036	73	11	0	0	0	100	100	42	12	5
November 2037	69	6	0	0	0	100	100	34	9	3
November 2038	66	1	0	0	0	100	100	28	7	2
November 2039	62	0	0	0	0	100	92	23	5	2
November 2040	57	0	0	0	0	100	82	19	4	1
November 2041	53	0	0	0	0	100	74	15	3	1
November 2042	48	0	0	0	0	100	65	12	2	0
November 2043	43	0	0	0	0	100	58	10	1	0
November 2044	37	0	0	0	0	100	50	8	1	0
November 2045	31	0	0	0	0	100	43	6	1	0
November 2046	24	0	0	0	0	100	37	5	0	0
November 2047	17	0	0	0	0	100	31	3	0	0
November 2048	10	0	0	0	0	100	25	3	0	0
November 2049	2	0	0	0	0	100	20	2	0	0
November 2050	0	0	0	0	0	86	15	1	0	0
November 2051	0	0	0	0	0	67	10	1	0	0
November 2052	0	0	0	0	0	46	6	0	0	0
November 2053	0	0	0	0	0	24	2	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0
Weighted Average										
Life (years)	16.1	6.6	3.6	2.6	2.3	27.8	20.6	12.4	8.4	6.9

**Security Group 12  
PSA Prepayment Assumption Rates**

Distribution Date	Classes FJ and SJ					
	0%	100%	250%	440%	650%	900%
Initial Percent	100	100	100	100	100	100
November 2025	99	97	94	91	87	82
November 2026	98	92	83	73	62	49
November 2027	97	85	70	53	37	23
November 2028	96	79	59	38	22	10
November 2029	95	73	49	28	14	5
November 2030	94	68	41	20	8	2
November 2031	92	63	34	15	5	1
November 2032	91	58	29	11	3	0
November 2033	89	53	24	8	2	0
November 2034	88	49	20	5	1	0
November 2035	86	45	16	4	1	0
November 2036	84	41	14	3	0	0
November 2037	82	37	11	2	0	0
November 2038	79	34	9	1	0	0
November 2039	77	31	8	1	0	0
November 2040	74	28	6	1	0	0
November 2041	71	25	5	1	0	0
November 2042	68	22	4	0	0	0
November 2043	64	20	3	0	0	0
November 2044	60	17	3	0	0	0
November 2045	56	15	2	0	0	0
November 2046	52	13	2	0	0	0
November 2047	47	11	1	0	0	0
November 2048	42	9	1	0	0	0
November 2049	36	7	1	0	0	0
November 2050	30	5	0	0	0	0
November 2051	23	4	0	0	0	0
November 2052	16	2	0	0	0	0
November 2053	8	1	0	0	0	0
November 2054	0	0	0	0	0	0
Weighted Average						
Life (years)	20.5	11.4	6.4	4.1	2.9	2.2

**Security Group 13  
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Classes FM, JF, JS, MF, TI and TJ</u>					
	<u>0%</u>	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>
Initial Percent	100	100	100	100	100	100
November 2025	99	97	94	91	86	82
November 2026	98	91	82	73	62	52
November 2027	97	85	69	55	39	27
November 2028	96	79	58	41	25	14
November 2029	95	73	49	31	16	7
November 2030	94	67	41	23	10	4
November 2031	92	62	34	17	6	2
November 2032	91	58	28	13	4	1
November 2033	89	53	24	10	2	0
November 2034	88	49	20	7	2	0
November 2035	86	45	16	5	1	0
November 2036	84	41	13	4	1	0
November 2037	82	37	11	3	0	0
November 2038	79	34	9	2	0	0
November 2039	77	31	7	2	0	0
November 2040	74	28	6	1	0	0
November 2041	71	25	5	1	0	0
November 2042	68	22	4	1	0	0
November 2043	64	20	3	0	0	0
November 2044	60	17	3	0	0	0
November 2045	56	15	2	0	0	0
November 2046	52	13	2	0	0	0
November 2047	47	11	1	0	0	0
November 2048	42	9	1	0	0	0
November 2049	36	7	1	0	0	0
November 2050	30	5	0	0	0	0
November 2051	23	4	0	0	0	0
November 2052	16	2	0	0	0	0
November 2053	8	1	0	0	0	0
November 2054	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.3	6.3	4.3	3.1	2.4

**Security Group 14  
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Classes KF and KS</u>					
	<u>0%</u>	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
Initial Percent	100	100	100	100	100	100
November 2025	99	97	93	89	83	78
November 2026	98	92	79	70	54	42
November 2027	98	85	64	50	30	17
November 2028	97	79	52	35	16	7
November 2029	95	73	42	25	9	3
November 2030	94	68	34	18	5	1
November 2031	93	63	27	13	3	0
November 2032	92	58	22	9	1	0
November 2033	90	53	18	6	1	0
November 2034	89	49	14	4	0	0
November 2035	87	45	11	3	0	0
November 2036	85	41	9	2	0	0
November 2037	83	38	7	2	0	0
November 2038	81	34	6	1	0	0
November 2039	78	31	5	1	0	0
November 2040	75	28	4	1	0	0
November 2041	72	25	3	0	0	0
November 2042	69	23	2	0	0	0
November 2043	66	20	2	0	0	0
November 2044	62	18	1	0	0	0
November 2045	58	15	1	0	0	0
November 2046	53	13	1	0	0	0
November 2047	49	11	1	0	0	0
November 2048	43	9	0	0	0	0
November 2049	37	7	0	0	0	0
November 2050	31	6	0	0	0	0
November 2051	24	4	0	0	0	0
November 2052	17	2	0	0	0	0
November 2053	9	1	0	0	0	0
November 2054	0	0	0	0	0	0
Weighted Average Life (years)	20.8	11.4	5.5	3.8	2.5	2.0

**Security Group 15  
PSA Prepayment Assumption Rates**

Distribution Date	Class DA					Class DL					Classes LF and LS				
	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	99	97	94	92	90	100	100	100	100	100	100	99	97	95	92
November 2026	98	92	83	75	70	100	100	100	100	100	100	98	92	84	76
November 2027	97	85	70	56	48	100	100	100	100	100	100	97	85	70	57
November 2028	95	78	58	41	32	100	100	100	100	100	100	95	79	59	43
November 2029	94	72	48	30	21	100	100	100	100	100	100	94	73	49	32
November 2030	93	66	40	22	14	100	100	100	100	100	100	93	67	41	24
November 2031	91	61	33	16	9	100	100	100	100	100	100	91	62	34	18
November 2032	89	56	27	11	5	100	100	100	100	100	100	89	57	28	13
November 2033	87	51	22	8	3	100	100	100	100	100	100	88	52	24	10
November 2034	85	47	18	5	1	100	100	100	100	100	100	86	48	20	7
November 2035	83	43	14	3	0	100	100	100	100	100	100	84	44	16	5
November 2036	81	39	11	2	0	100	100	100	100	68	82	40	13	4	2
November 2037	79	35	9	1	0	100	100	100	100	46	79	36	11	3	1
November 2038	76	31	7	0	0	100	100	100	89	31	77	33	9	2	1
November 2039	73	28	5	0	0	100	100	100	65	21	74	30	7	2	0
November 2040	70	25	4	0	0	100	100	100	47	14	71	27	6	1	0
November 2041	67	22	2	0	0	100	100	100	34	9	68	24	5	1	0
November 2042	64	19	2	0	0	100	100	100	25	6	65	21	4	1	0
November 2043	60	17	1	0	0	100	100	100	17	4	61	19	3	0	0
November 2044	56	14	0	0	0	100	100	100	12	3	57	16	2	0	0
November 2045	52	12	0	0	0	100	100	80	9	2	53	14	2	0	0
November 2046	48	10	0	0	0	100	100	62	6	1	49	12	1	0	0
November 2047	43	8	0	0	0	100	100	47	4	1	44	10	1	0	0
November 2048	38	6	0	0	0	100	100	35	3	0	39	8	1	0	0
November 2049	32	4	0	0	0	100	100	25	2	0	34	7	1	0	0
November 2050	26	3	0	0	0	100	100	17	1	0	28	5	0	0	0
November 2051	20	1	0	0	0	100	100	11	1	0	22	4	0	0	0
November 2052	13	0	0	0	0	100	87	6	0	0	15	2	0	0	0
November 2053	5	0	0	0	0	100	31	2	0	0	8	1	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	19.7	10.7	6.0	4.1	3.5	29.9	28.7	23.3	16.7	13.5	19.9	11.2	6.4	4.4	3.7

**Security Group 16  
PSA Prepayment Assumption Rates**

Distribution Date	Classes PA, PB, PC, PD, PE, PG, PH and PI					Class PZ					Class UZ				
	0%	200%	300%	450%	600%	0%	200%	300%	450%	600%	0%	200%	300%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	97	90	90	90	90	107	107	107	107	107	107	107	94	76	57
November 2026	94	74	74	74	72	114	114	114	114	114	114	114	82	36	0
November 2027	90	58	58	58	45	121	121	121	121	121	121	121	73	9	0
November 2028	87	43	43	43	28	130	130	130	130	130	130	130	71	0	0
November 2029	83	31	31	31	18	138	138	138	138	138	138	138	71	0	0
November 2030	79	22	22	22	11	148	148	148	148	148	148	148	67	0	0
November 2031	74	16	16	16	7	157	157	157	157	157	157	157	61	0	0
November 2032	69	11	11	11	4	168	168	168	168	168	168	168	54	0	0
November 2033	64	8	8	8	2	179	179	179	179	179	179	179	47	0	0
November 2034	58	5	5	5	1	191	191	191	191	191	191	191	40	0	0
November 2035	52	3	3	3	0	204	204	204	204	204	204	204	34	0	0
November 2036	46	2	2	2	0	218	218	218	218	172	218	75	28	0	0
November 2037	39	1	1	1	0	232	232	232	232	107	232	66	23	0	0
November 2038	31	0	0	0	0	248	248	248	248	66	248	57	19	0	0
November 2039	23	0	0	0	0	264	259	259	259	40	264	49	15	0	0
November 2040	15	0	0	0	0	282	180	180	180	25	282	41	12	0	0
November 2041	6	0	0	0	0	301	125	125	125	15	301	35	10	0	0
November 2042	0	0	0	0	0	86	86	86	86	9	310	29	8	0	0
November 2043	0	0	0	0	0	58	58	58	58	5	294	24	6	0	0
November 2044	0	0	0	0	0	39	39	39	39	3	277	20	5	0	0
November 2045	0	0	0	0	0	26	26	26	26	2	258	16	3	0	0
November 2046	0	0	0	0	0	17	17	17	17	1	238	12	3	0	0
November 2047	0	0	0	0	0	10	10	10	10	1	216	10	2	0	0
November 2048	0	0	0	0	0	6	6	6	6	0	192	7	1	0	0
November 2049	0	0	0	0	0	4	4	4	4	0	166	5	1	0	0
November 2050	0	0	0	0	0	2	2	2	2	0	138	3	1	0	0
November 2051	0	0	0	0	0	1	1	1	1	0	107	2	0	0	0
November 2052	0	0	0	0	0	0	0	0	0	0	74	0	0	0	0
November 2053	0	0	0	0	0	0	0	0	0	0	39	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	10.6	4.2	4.2	4.2	3.3	18.4	17.6	17.6	17.6	13.7	24.9	13.8	8.8	1.7	1.1



**Security Group 17  
PSA Prepayment Assumption Rates**

Distribution Date	Classes IN, N, NH, NJ, NK and NP					Classes MI, MP, MQ, MS, MT, NF, NQ and NT					Class NA				
	0%	100%	260%	450%	600%	0%	100%	260%	450%	600%	0%	100%	260%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	99	97	94	90	87	99	97	95	92	90	99	96	93	89	86
November 2026	98	91	80	69	60	98	92	84	75	68	97	89	78	64	54
November 2027	96	82	63	43	29	97	86	71	55	44	96	80	58	35	19
November 2028	95	74	48	23	9	96	80	59	39	27	94	71	41	13	0
November 2029	93	67	35	10	0	95	74	49	28	17	92	62	27	0	0
November 2030	92	60	25	0	0	93	68	41	20	11	90	55	15	0	0
November 2031	90	53	16	0	0	92	63	34	15	7	88	47	5	0	0
November 2032	88	47	9	0	0	90	58	28	10	4	86	40	0	0	0
November 2033	86	41	3	0	0	89	53	23	7	3	84	33	0	0	0
November 2034	83	36	0	0	0	87	49	19	5	2	81	27	0	0	0
November 2035	81	31	0	0	0	85	45	16	4	1	78	21	0	0	0
November 2036	78	26	0	0	0	83	41	13	3	1	75	16	0	0	0
November 2037	75	21	0	0	0	80	37	10	2	0	72	11	0	0	0
November 2038	72	17	0	0	0	78	34	9	1	0	69	6	0	0	0
November 2039	69	13	0	0	0	75	31	7	1	0	65	1	0	0	0
November 2040	65	9	0	0	0	73	28	6	1	0	61	0	0	0	0
November 2041	62	5	0	0	0	70	25	5	0	0	56	0	0	0	0
November 2042	57	2	0	0	0	66	22	4	0	0	52	0	0	0	0
November 2043	53	0	0	0	0	63	20	3	0	0	47	0	0	0	0
November 2044	48	0	0	0	0	59	17	2	0	0	41	0	0	0	0
November 2045	43	0	0	0	0	55	15	2	0	0	35	0	0	0	0
November 2046	37	0	0	0	0	50	13	1	0	0	29	0	0	0	0
November 2047	31	0	0	0	0	46	11	1	0	0	22	0	0	0	0
November 2048	25	0	0	0	0	40	9	1	0	0	15	0	0	0	0
November 2049	18	0	0	0	0	35	7	1	0	0	7	0	0	0	0
November 2050	10	0	0	0	0	29	6	0	0	0	0	0	0	0	0
November 2051	2	0	0	0	0	22	4	0	0	0	0	0	0	0	0
November 2052	0	0	0	0	0	16	3	0	0	0	0	0	0	0	0
November 2053	0	0	0	0	0	8	1	0	0	0	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.0	8.2	4.2	2.9	2.4	20.2	11.4	6.3	4.1	3.3	16.8	7.1	3.7	2.5	2.1

**PSA Prepayment Assumption Rates**

Distribution Date	Class NL					Class NM				
	0%	100%	260%	450%	600%	0%	100%	260%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100
November 2025	100	100	100	100	100	100	100	100	100	100
November 2026	100	100	100	100	100	100	100	100	100	100
November 2027	100	100	100	100	100	100	100	100	100	100
November 2028	100	100	100	100	100	100	100	100	100	73
November 2029	100	100	100	100	84	100	100	100	81	0
November 2030	100	100	100	98	53	100	100	100	0	0
November 2031	100	100	100	70	33	100	100	100	0	0
November 2032	100	100	100	50	21	100	100	76	0	0
November 2033	100	100	100	36	13	100	100	24	0	0
November 2034	100	100	91	26	8	100	100	0	0	0
November 2035	100	100	75	18	5	100	100	0	0	0
November 2036	100	100	62	13	3	100	100	0	0	0
November 2037	100	100	51	9	2	100	100	0	0	0
November 2038	100	100	41	6	1	100	100	0	0	0
November 2039	100	100	34	5	1	100	100	0	0	0
November 2040	100	100	27	3	0	100	75	0	0	0
November 2041	100	100	22	2	0	100	45	0	0	0
November 2042	100	100	17	2	0	100	16	0	0	0
November 2043	100	95	14	1	0	100	0	0	0	0
November 2044	100	83	11	1	0	100	0	0	0	0
November 2045	100	72	9	0	0	100	0	0	0	0
November 2046	100	62	7	0	0	100	0	0	0	0
November 2047	100	53	5	0	0	100	0	0	0	0
November 2048	100	44	4	0	0	100	0	0	0	0
November 2049	100	35	3	0	0	100	0	0	0	0
November 2050	100	27	2	0	0	88	0	0	0	0
November 2051	100	19	1	0	0	19	0	0	0	0
November 2052	75	12	1	0	0	0	0	0	0	0
November 2053	39	5	0	0	0	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.7	23.6	14.3	8.9	6.8	26.6	16.9	8.5	5.4	4.2



**Security Group 18  
PSA Prepayment Assumption Rates**

Distribution Date	Class DY					Classes EY, GY, HY, JY and YI					Classes IY, LY, MY, NY and PY					Classes VI, WY, XY, Y and YX				
	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2026	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2027	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2028	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2029	100	100	100	100	100	100	100	100	100	100	100	100	100	100	94	100	100	100	94	69
November 2030	100	100	100	100	100	100	100	100	100	95	100	100	100	95	64	100	100	100	70	47
November 2031	100	100	100	100	93	100	100	100	100	65	100	100	100	71	44	100	100	99	52	32
November 2032	100	100	100	100	63	100	100	100	78	45	100	100	100	53	30	100	100	83	39	22
November 2033	100	100	100	82	43	100	100	100	58	30	100	100	93	39	21	100	100	69	29	15
November 2034	100	100	100	61	30	100	100	100	43	21	100	100	77	29	14	100	100	57	21	10
November 2035	100	100	100	45	20	100	100	94	32	14	100	100	64	21	10	100	100	47	16	7
November 2036	100	100	100	33	14	100	100	78	23	10	100	100	53	16	7	100	100	39	12	5
November 2037	100	100	91	24	9	100	100	64	17	7	100	100	43	12	4	100	100	32	9	3
November 2038	100	100	75	18	6	100	100	52	13	4	100	100	36	9	3	100	95	26	6	2
November 2039	100	100	61	13	4	100	100	43	9	3	100	100	29	6	2	100	86	21	5	1
November 2040	100	100	49	9	3	100	100	35	7	2	100	100	24	5	1	100	77	17	3	1
November 2041	100	100	40	7	2	100	100	28	5	1	100	94	19	3	1	100	69	14	2	1
November 2042	100	100	32	5	1	100	100	23	3	1	100	83	15	2	1	100	61	11	2	0
November 2043	100	100	26	4	1	100	100	18	2	1	100	74	12	2	0	100	54	9	1	0
November 2044	100	100	20	2	1	100	95	14	2	0	100	64	10	1	0	100	47	7	1	0
November 2045	100	100	16	2	0	100	82	11	1	0	100	56	8	1	0	100	41	6	1	0
November 2046	100	100	12	1	0	100	70	9	1	0	100	48	6	1	0	100	35	4	0	0
November 2047	100	84	9	1	0	100	59	7	1	0	100	40	4	0	0	100	29	3	0	0
November 2048	100	69	7	1	0	100	48	5	0	0	100	33	3	0	0	100	24	2	0	0
November 2049	100	55	5	0	0	100	38	3	0	0	100	26	2	0	0	96	19	2	0	0
November 2050	100	41	3	0	0	100	29	2	0	0	100	20	2	0	0	80	14	1	0	0
November 2051	100	29	2	0	0	100	20	2	0	0	84	14	1	0	0	62	10	1	0	0
November 2052	100	17	1	0	0	85	12	1	0	0	58	8	1	0	0	43	6	0	0	0
November 2053	63	6	0	0	0	44	4	0	0	0	30	3	0	0	0	22	2	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average																				
Life (years)	29.2	25.5	17.0	11.6	9.4	28.9	24.1	15.4	10.5	8.5	28.3	22.1	13.5	9.2	7.5	27.6	20.2	12.0	8.1	6.7

**Security Groups 15 and 18  
PSA Prepayment Assumption Rates**

Distribution Date	Classes FN and SN				
	0%	100%	250%	400%	500%
Initial Percent	100	100	100	100	100
November 2025	99	97	95	93	91
November 2026	98	92	84	77	72
November 2027	97	86	71	58	50
November 2028	95	79	60	44	35
November 2029	94	73	50	33	24
November 2030	93	68	42	24	16
November 2031	91	62	35	18	11
November 2032	89	57	29	13	8
November 2033	88	53	24	10	5
November 2034	86	48	20	7	4
November 2035	84	44	16	5	2
November 2036	82	40	13	4	2
November 2037	79	37	11	3	1
November 2038	77	33	9	2	1
November 2039	74	30	7	2	1
November 2040	71	27	6	1	0
November 2041	68	24	5	1	0
November 2042	65	21	4	1	0
November 2043	61	19	3	0	0
November 2044	57	16	2	0	0
November 2045	53	14	2	0	0
November 2046	49	12	1	0	0
November 2047	44	10	1	0	0
November 2048	39	8	1	0	0
November 2049	34	7	1	0	0
November 2050	28	5	0	0	0
November 2051	22	4	0	0	0
November 2052	15	2	0	0	0
November 2053	8	1	0	0	0
November 2054	0	0	0	0	0
Weighted Average					
Life (years)	19.9	11.2	6.4	4.5	3.8

**Security Group 19  
PSA Prepayment Assumption Rates**

Distribution Date	Classes PF, PS, SF and SG					
	0%	100%	250%	439%	650%	900%
Initial Percent	100	100	100	100	100	100
November 2025	99	97	95	92	88	84
November 2026	98	92	84	74	64	52
November 2027	97	86	71	54	39	24
November 2028	96	80	59	39	23	11
November 2029	95	74	50	29	14	5
November 2030	94	68	42	21	8	2
November 2031	92	63	35	15	5	1
November 2032	91	58	29	11	3	0
November 2033	89	54	24	8	2	0
November 2034	88	49	20	6	1	0
November 2035	86	45	17	4	1	0
November 2036	84	41	14	3	0	0
November 2037	82	38	11	2	0	0
November 2038	79	34	9	1	0	0
November 2039	77	31	8	1	0	0
November 2040	74	28	6	1	0	0
November 2041	71	25	5	1	0	0
November 2042	68	23	4	0	0	0
November 2043	64	20	3	0	0	0
November 2044	60	18	3	0	0	0
November 2045	56	15	2	0	0	0
November 2046	52	13	2	0	0	0
November 2047	47	11	1	0	0	0
November 2048	42	9	1	0	0	0
November 2049	36	7	1	0	0	0
November 2050	30	6	0	0	0	0
November 2051	23	4	0	0	0	0
November 2052	16	3	0	0	0	0
November 2053	8	1	0	0	0	0
November 2054	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.5	6.5	4.1	3.0	2.3

**Security Group 20  
PSA Prepayment Assumption Rates**

Distribution Date	Classes IU, M, MH, MJ, MK and MW					Classes I, IA, IB, IC, ID, II, QF and QS					Class MA				
	0%	100%	260%	450%	600%	0%	100%	260%	450%	600%	0%	100%	260%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	99	96	93	88	84	99	97	94	90	88	99	96	92	86	82
November 2026	98	90	78	65	55	98	92	82	72	64	97	88	75	61	50
November 2027	96	81	61	40	26	97	85	69	52	41	96	79	56	33	17
November 2028	95	74	47	22	8	96	79	57	37	26	94	70	40	12	0
November 2029	93	66	35	9	0	95	73	48	27	16	92	62	26	0	0
November 2030	92	60	25	0	0	93	67	39	19	10	91	54	15	0	0
November 2031	90	53	16	0	0	92	62	33	14	6	89	47	6	0	0
November 2032	88	47	9	0	0	90	57	27	10	4	86	40	0	0	0
November 2033	86	41	3	0	0	89	53	22	7	3	84	34	0	0	0
November 2034	84	36	0	0	0	87	48	18	5	2	81	28	0	0	0
November 2035	81	31	0	0	0	85	44	15	4	1	79	22	0	0	0
November 2036	79	26	0	0	0	83	41	12	3	1	76	17	0	0	0
November 2037	76	22	0	0	0	80	37	10	2	0	73	12	0	0	0
November 2038	73	17	0	0	0	78	34	8	1	0	69	7	0	0	0
November 2039	69	13	0	0	0	75	30	7	1	0	66	2	0	0	0
November 2040	66	10	0	0	0	73	27	5	1	0	62	0	0	0	0
November 2041	62	6	0	0	0	70	24	4	0	0	57	0	0	0	0
November 2042	58	3	0	0	0	66	22	4	0	0	53	0	0	0	0
November 2043	54	0	0	0	0	63	19	3	0	0	48	0	0	0	0
November 2044	49	0	0	0	0	59	17	2	0	0	42	0	0	0	0
November 2045	44	0	0	0	0	55	15	2	0	0	37	0	0	0	0
November 2046	38	0	0	0	0	50	13	1	0	0	30	0	0	0	0
November 2047	32	0	0	0	0	46	11	1	0	0	24	0	0	0	0
November 2048	26	0	0	0	0	40	9	1	0	0	16	0	0	0	0
November 2049	19	0	0	0	0	35	7	1	0	0	9	0	0	0	0
November 2050	12	0	0	0	0	29	5	0	0	0	0	0	0	0	0
November 2051	4	0	0	0	0	22	4	0	0	0	0	0	0	0	0
November 2052	0	0	0	0	0	16	2	0	0	0	0	0	0	0	0
November 2053	0	0	0	0	0	8	1	0	0	0	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.1	8.2	4.2	2.8	2.2	20.2	11.3	6.2	4.0	3.1	17.0	7.1	3.6	2.4	2.0

**Security Group 20  
PSA Prepayment Assumption Rates**

Distribution Date	Class MB					Class ML					Class MN				
	0%	100%	260%	450%	600%	0%	100%	260%	450%	600%	0%	100%	260%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2026	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2027	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2028	100	100	100	100	89	100	100	100	100	100	100	100	100	100	67
November 2029	100	100	100	94	56	100	100	100	100	83	100	100	100	80	0
November 2030	100	100	100	67	35	100	100	100	99	52	100	100	100	0	0
November 2031	100	100	100	48	22	100	100	100	71	33	100	100	100	0	0
November 2032	100	100	94	34	14	100	100	100	51	21	100	100	82	0	0
November 2033	100	100	78	25	9	100	100	100	36	13	100	100	31	0	0
November 2034	100	100	64	18	5	100	100	94	26	8	100	100	0	0	0
November 2035	100	100	53	12	3	100	100	77	18	5	100	100	0	0	0
November 2036	100	100	43	9	2	100	100	64	13	3	100	100	0	0	0
November 2037	100	100	35	6	1	100	100	52	9	2	100	100	0	0	0
November 2038	100	100	29	4	1	100	100	42	6	1	100	100	0	0	0
November 2039	100	100	23	3	1	100	100	34	5	1	100	100	0	0	0
November 2040	100	95	19	2	0	100	100	28	3	0	100	85	0	0	0
November 2041	100	85	15	2	0	100	100	22	2	0	100	54	0	0	0
November 2042	100	76	12	1	0	100	100	18	2	0	100	25	0	0	0
November 2043	100	67	10	1	0	100	99	14	1	0	100	0	0	0	0
November 2044	100	59	8	0	0	100	87	11	1	0	100	0	0	0	0
November 2045	100	51	6	0	0	100	75	9	0	0	100	0	0	0	0
November 2046	100	44	5	0	0	100	64	7	0	0	100	0	0	0	0
November 2047	100	37	3	0	0	100	54	5	0	0	100	0	0	0	0
November 2048	100	30	3	0	0	100	45	4	0	0	100	0	0	0	0
November 2049	100	24	2	0	0	100	36	3	0	0	100	0	0	0	0
November 2050	100	19	1	0	0	100	27	2	0	0	100	0	0	0	0
November 2051	78	13	1	0	0	100	19	1	0	0	32	0	0	0	0
November 2052	54	8	0	0	0	80	12	1	0	0	0	0	0	0	0
November 2053	28	3	0	0	0	41	5	0	0	0	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.1	21.6	12.6	7.8	5.9	28.8	23.7	14.4	8.9	6.8	26.8	17.2	8.6	5.4	4.2

**Security Groups 17 and 20  
PSA Prepayment Assumption Rates**

Distribution Date	Classes FS, K, KC, KD, KE, KG and KI					Classes IL, LE, LG, LH, IJ and LK					Class KB					Classes LM, LN, LP, LQ, LT and UI					
	0%	100%	260%	450%	600%	0%	100%	260%	450%	600%	0%	100%	260%	450%	600%	0%	100%	260%	450%	600%	
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	99	97	94	91	88	99	96	92	87	83	100	100	100	100	100	99	96	93	89	85	
November 2026	98	92	83	73	65	97	89	76	62	51	100	100	100	100	100	98	90	79	66	56	
November 2027	97	85	69	53	41	96	79	57	33	17	100	100	100	100	100	96	82	62	41	27	
November 2028	96	79	58	38	26	94	71	40	12	0	100	100	100	100	90	95	74	47	23	8	
November 2029	95	73	48	27	16	92	62	27	0	0	100	100	100	94	57	93	67	35	9	0	
November 2030	93	68	40	20	10	91	54	15	0	0	100	100	100	67	36	92	60	25	0	0	
November 2031	92	62	33	14	7	88	47	5	0	0	100	100	100	48	22	90	53	16	0	0	
November 2032	90	58	27	10	4	86	40	0	0	0	100	100	94	35	14	88	47	9	0	0	
November 2033	89	53	23	7	3	84	34	0	0	0	100	100	77	25	9	86	41	3	0	0	
November 2034	87	49	19	5	2	81	28	0	0	0	100	100	64	18	6	84	36	0	0	0	
November 2035	85	45	15	4	1	79	22	0	0	0	100	100	53	13	3	81	31	0	0	0	
November 2036	83	41	13	3	1	76	16	0	0	0	100	100	43	9	2	78	26	0	0	0	
November 2037	80	37	10	2	0	73	11	0	0	0	100	100	35	6	1	76	21	0	0	0	
November 2038	78	34	8	1	0	69	6	0	0	0	100	100	29	4	1	73	17	0	0	0	
November 2039	75	30	7	1	0	65	2	0	0	0	100	100	23	3	1	69	13	0	0	0	
November 2040	73	27	5	1	0	61	0	0	0	0	100	94	19	2	0	66	9	0	0	0	
November 2041	70	25	4	0	0	57	0	0	0	0	100	85	15	2	0	62	6	0	0	0	
November 2042	66	22	4	0	0	52	0	0	0	0	100	75	12	1	0	58	3	0	0	0	
November 2043	63	19	3	0	0	47	0	0	0	0	100	67	10	1	0	53	0	0	0	0	
November 2044	59	17	2	0	0	42	0	0	0	0	100	59	8	0	0	49	0	0	0	0	
November 2045	55	15	2	0	0	36	0	0	0	0	100	51	6	0	0	44	0	0	0	0	
November 2046	50	13	1	0	0	30	0	0	0	0	100	44	5	0	0	38	0	0	0	0	
November 2047	46	11	1	0	0	23	0	0	0	0	100	37	3	0	0	32	0	0	0	0	
November 2048	40	9	1	0	0	16	0	0	0	0	100	30	3	0	0	26	0	0	0	0	
November 2049	35	7	1	0	0	8	0	0	0	0	100	24	2	0	0	19	0	0	0	0	
November 2050	29	5	0	0	0	0	0	0	0	0	99	19	1	0	0	11	0	0	0	0	
November 2051	22	4	0	0	0	0	0	0	0	0	77	13	1	0	0	3	0	0	0	0	
November 2052	16	2	0	0	0	0	0	0	0	0	53	8	0	0	0	0	0	0	0	0	
November 2053	8	1	0	0	0	0	0	0	0	0	28	3	0	0	0	0	0	0	0	0	
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weighted Average Life (years)	20.2	11.3	6.2	4.0	3.2	17.0	7.1	3.6	2.5	2.0	28.1	21.6	12.5	7.8	5.9	18.1	8.2	4.2	2.8	2.3	

**Security Group 21  
PSA Prepayment Assumption Rates**

Distribution Date	Classes BP, IA, JP, KP, P, PV and PX					Class ZB					Class ZP				
	0%	200%	400%	450%	800%	0%	200%	400%	450%	800%	0%	200%	400%	450%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	97	93	93	93	93	108	108	91	87	58	108	108	108	108	108
November 2026	94	79	79	79	71	116	116	64	52	0	116	116	116	116	116
November 2027	91	63	63	63	37	125	125	36	16	0	125	125	125	125	125
November 2028	87	48	48	48	19	135	135	24	2	0	135	135	135	135	135
November 2029	83	35	35	35	9	145	144	23	0	0	145	145	145	145	145
November 2030	79	25	25	25	4	157	145	21	0	0	157	157	157	157	157
November 2031	74	18	18	18	2	169	140	19	0	0	169	169	169	169	169
November 2032	69	12	12	12	1	182	132	16	0	0	182	182	182	182	182
November 2033	63	9	9	9	0	196	121	13	0	0	196	196	196	196	172
November 2034	57	6	6	6	0	211	110	11	0	0	211	211	211	211	87
November 2035	51	4	4	4	0	228	98	9	0	0	228	228	228	228	44
November 2036	44	2	2	2	0	245	87	7	0	0	245	245	245	245	23
November 2037	36	1	1	1	0	264	76	6	0	0	264	264	264	264	11
November 2038	28	1	1	1	0	285	66	4	0	0	285	285	285	285	6
November 2039	19	0	0	0	0	307	57	3	0	0	307	306	306	306	3
November 2040	10	0	0	0	0	331	49	3	0	0	331	214	214	214	1
November 2041	0	0	0	0	0	356	42	2	0	0	235	150	150	150	1
November 2042	0	0	0	0	0	343	35	2	0	0	104	104	104	104	0
November 2043	0	0	0	0	0	327	30	1	0	0	71	71	71	71	0
November 2044	0	0	0	0	0	309	25	1	0	0	48	48	48	48	0
November 2045	0	0	0	0	0	289	20	1	0	0	33	33	33	33	0
November 2046	0	0	0	0	0	267	16	0	0	0	22	22	22	22	0
November 2047	0	0	0	0	0	244	13	0	0	0	14	14	14	14	0
November 2048	0	0	0	0	0	218	10	0	0	0	9	9	9	9	0
November 2049	0	0	0	0	0	189	7	0	0	0	5	5	5	5	0
November 2050	0	0	0	0	0	158	5	0	0	0	3	3	3	3	0
November 2051	0	0	0	0	0	123	3	0	0	0	1	1	1	1	0
November 2052	0	0	0	0	0	86	2	0	0	0	0	0	0	0	0
November 2053	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	10.3	4.5	4.5	4.5	2.9	24.8	14.4	4.1	2.1	1.1	18.1	17.7	17.7	17.7	10.3

**Security Group 22  
PSA Prepayment Assumption Rates**

Distribution Date	Classes EA, ED, EG, EH, EI, EJ, EK and EN					Class EB					Classes EC, EP, EQ, ET, EU, EV, EW and IE				
	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	99	96	93	90	88	100	100	100	100	100	99	97	94	91	89
November 2026	97	89	78	68	61	100	100	100	100	100	98	91	81	72	65
November 2027	96	80	59	41	30	100	100	100	100	100	96	82	64	48	38
November 2028	94	71	43	20	7	100	100	100	100	100	95	74	49	29	18
November 2029	92	62	29	4	0	100	100	100	100	80	93	67	37	15	4
November 2030	90	55	17	0	0	100	100	100	82	55	92	60	27	5	0
November 2031	88	47	7	0	0	100	100	100	61	38	90	53	18	0	0
November 2032	86	40	0	0	0	100	100	97	46	26	88	47	11	0	0
November 2033	84	33	0	0	0	100	100	81	34	18	86	41	5	0	0
November 2034	81	27	0	0	0	100	100	67	25	12	83	36	0	0	0
November 2035	78	21	0	0	0	100	100	56	19	8	81	31	0	0	0
November 2036	75	16	0	0	0	100	100	46	14	6	78	26	0	0	0
November 2037	72	11	0	0	0	100	100	38	10	4	75	21	0	0	0
November 2038	69	6	0	0	0	100	100	31	7	3	72	17	0	0	0
November 2039	65	1	0	0	0	100	100	25	5	2	69	13	0	0	0
November 2040	61	0	0	0	0	100	92	21	4	1	65	9	0	0	0
November 2041	56	0	0	0	0	100	83	17	3	1	62	5	0	0	0
November 2042	52	0	0	0	0	100	74	14	2	1	57	2	0	0	0
November 2043	47	0	0	0	0	100	65	11	1	0	53	0	0	0	0
November 2044	41	0	0	0	0	100	57	9	1	0	48	0	0	0	0
November 2045	35	0	0	0	0	100	50	7	1	0	43	0	0	0	0
November 2046	29	0	0	0	0	100	43	5	1	0	37	0	0	0	0
November 2047	22	0	0	0	0	100	36	4	0	0	31	0	0	0	0
November 2048	15	0	0	0	0	100	30	3	0	0	25	0	0	0	0
November 2049	7	0	0	0	0	100	24	2	0	0	18	0	0	0	0
November 2050	0	0	0	0	0	96	19	2	0	0	10	0	0	0	0
November 2051	0	0	0	0	0	75	13	1	0	0	2	0	0	0	0
November 2052	0	0	0	0	0	52	8	1	0	0	0	0	0	0	0
November 2053	0	0	0	0	0	27	4	0	0	0	0	0	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	16.8	7.1	3.8	2.7	2.4	28.0	21.5	12.9	8.7	7.1	18.0	8.2	4.4	3.1	2.7

**Security Group 22  
PSA Prepayment Assumption Rates**

Distribution Date	Class EL					Class EM					Classes FX, JC, JD, JE, JG, JH, JI, JK, JN, SX, TX and XF				
	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%	0%	100%	250%	400%	500%
	Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
November 2025	100	100	100	100	100	100	100	100	100	100	99	97	95	93	91
November 2026	100	100	100	100	100	100	100	100	100	100	98	92	85	77	73
November 2027	100	100	100	100	100	100	100	100	100	100	97	86	72	59	51
November 2028	100	100	100	100	100	100	100	100	100	100	96	80	60	44	35
November 2029	100	100	100	100	100	100	100	100	100	37	95	74	50	33	24
November 2030	100	100	100	100	80	100	100	100	41	0	93	68	42	25	17
November 2031	100	100	100	89	55	100	100	100	0	0	92	63	35	18	11
November 2032	100	100	100	66	38	100	100	91	0	0	90	58	29	14	8
November 2033	100	100	100	49	26	100	100	38	0	0	89	53	24	10	5
November 2034	100	100	97	36	18	100	100	0	0	0	87	49	20	8	4
November 2035	100	100	81	27	12	100	100	0	0	0	85	45	17	6	3
November 2036	100	100	67	20	8	100	100	0	0	0	83	41	14	4	2
November 2037	100	100	55	15	6	100	100	0	0	0	80	37	11	3	1
November 2038	100	100	45	11	4	100	100	0	0	0	78	34	9	2	1
November 2039	100	100	37	8	3	100	100	0	0	0	75	31	8	2	1
November 2040	100	100	30	6	2	100	75	0	0	0	73	28	6	1	0
November 2041	100	100	24	4	1	100	45	0	0	0	70	25	5	1	0
November 2042	100	100	20	3	1	100	16	0	0	0	66	22	4	1	0
November 2043	100	95	16	2	1	100	0	0	0	0	63	20	3	0	0
November 2044	100	83	13	2	0	100	0	0	0	0	59	17	3	0	0
November 2045	100	72	10	1	0	100	0	0	0	0	55	15	2	0	0
November 2046	100	62	8	1	0	100	0	0	0	0	50	13	2	0	0
November 2047	100	53	6	1	0	100	0	0	0	0	46	11	1	0	0
November 2048	100	44	4	0	0	100	0	0	0	0	40	9	1	0	0
November 2049	100	35	3	0	0	100	0	0	0	0	35	7	1	0	0
November 2050	100	27	2	0	0	88	0	0	0	0	29	6	0	0	0
November 2051	100	19	1	0	0	19	0	0	0	0	22	4	0	0	0
November 2052	75	12	1	0	0	0	0	0	0	0	16	3	0	0	0
November 2053	39	5	0	0	0	0	0	0	0	0	8	1	0	0	0
November 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.7	23.6	14.7	9.9	8.1	26.6	16.9	8.8	5.9	4.9	20.2	11.4	6.5	4.5	3.8

**Yield Considerations**

An investor seeking to maximize yield should make a decision whether to invest in any Regular or MX Class based on:

- the anticipated yield of that Class resulting from its purchase price,
- the investor’s own projection of Mortgage Loan prepayment rates under a variety of scenarios and
- in the case of a Floating Rate or an Inverse Floating Rate Class, the investor’s own projection of levels of 30-day Average SOFR under a variety of scenarios.

**No representation is made regarding Mortgage Loan prepayment rates, 30-day Average SOFR levels or the yield of any Class.**

*Prepayments: Effect on Yields*

The yields to investors will be sensitive in varying degrees to the rate of prepayments on the related Mortgage Loans.

- In the case of Regular Securities or MX Securities purchased at a premium (especially the Interest Only Classes), faster than anticipated rates of principal payments could result in actual yields to investors that are lower than the anticipated yields.
- Investors in the Interest Only Classes should also consider the risk that rapid rates of principal payments could result in the failure of investors to recover fully their investments.
- In the case of Regular Securities or MX Securities purchased at a discount, slower than anticipated rates of principal payments could result in actual yields to investors that are lower than the anticipated yields.

*See “Risk Factors — Rates of principal payments can reduce your yield” in this Supplement.*

Rapid rates of prepayments on the Mortgage Loans are likely to coincide with periods of low prevailing interest rates.

During periods of low prevailing interest rates, the yields at which an investor may be able to reinvest amounts received as principal payments on the investor’s Class of Securities may be lower than the yield on that Class.

Slow rates of prepayments on the Mortgage Loans are likely to coincide with periods of high prevailing interest rates.

During periods of high prevailing interest rates, the amount of principal payments available to an investor for reinvestment at those high rates may be relatively low.

The Mortgage Loans will not prepay at any constant rate until maturity, nor will all of the Mortgage Loans underlying any Trust Asset Group prepay at the same rate at any one time. The timing of changes in the rate of prepayments may affect the actual yield to an investor, even if the average rate of principal prepayments is consistent with the investor’s expectation. In general, the earlier a prepayment of principal on the Mortgage Loans, the greater the effect on an investor’s yield. As a result, the effect on an investor’s yield of principal prepayments occurring at a rate higher (or lower) than the rate anticipated by the investor during the period immediately following the Closing Date is not likely to be offset by a later equivalent reduction (or increase) in the rate of principal prepayments.

#### *30-day Average SOFR: Effect on Yields of the Floating Rate and Inverse Floating Rate Classes*

Low levels of 30-day Average SOFR can reduce the yield of the Floating Rate Classes. High levels of 30-day Average SOFR can significantly reduce the yield of the Inverse Floating Rate Classes. In addition, the Floating Rate Classes will not necessarily benefit from a higher yield at high levels of 30-day Average SOFR and certain Inverse Floating Rate Classes may not benefit from particularly low levels of 30-day Average SOFR because the rate on such Classes is capped at a maximum rate described under “Terms Sheet — Interest Rates.”

#### *Payment Delay: Effect on Yields of the Fixed Rate Classes*

The effective yield on any Fixed Rate Class will be less than the yield otherwise produced by its Interest Rate and purchase price because, on each Distribution Date, 30 days’ interest will be payable on (or added to the principal amount of) that Class even though interest began to accrue approximately 50 days earlier.

### **Yield Tables**

The following tables show the pre-tax yields to maturity on a corporate bond equivalent basis of specified Classes at various constant percentages of PSA and, in the case of the Inverse Floating Rate Classes, at various constant levels of 30-day Average SOFR.

The Mortgage Loans will not prepay at any constant rate until maturity, and it is unlikely that 30-day Average SOFR will remain constant. Moreover, it is likely that the Mortgage Loans will experience actual prepayment rates that differ from those of the Modeling Assumptions. **Therefore, the actual pre-tax yield of any Class may differ from those shown in the applicable table below for that Class even if the Class is purchased at the assumed price shown.**



The yields were calculated by

1. determining the monthly discount rates that, when applied to the applicable assumed streams of cash flows to be paid on the applicable Class, would cause the discounted present value of the assumed streams of cash flows to equal the assumed purchase price of that Class plus accrued interest, and
2. converting the monthly rates to corporate bond equivalent rates.

These calculations do not take into account variations that may occur in the interest rates at which investors may be able to reinvest funds received by them as distributions on their Securities and consequently do not purport to reflect the return on any investment in any Class when those reinvestment rates are considered.

The information set forth in the following tables was prepared on the basis of the Modeling Assumptions and the assumptions that (1) the Interest Rate applicable to each Inverse Floating Rate Class for each Accrual Period following the first Accrual Period will be based on the indicated level of 30-day Average SOFR and (2) the purchase price of each Class (expressed as a percentage of Original Class Principal Balance or original Class Notional Balance) plus accrued interest is as indicated in the related table. **The assumed purchase price is not necessarily that at which actual sales will occur.**

## SECURITY GROUP 1

### Sensitivity of Class SA to Prepayments Assumed Price 4.35%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.85713% .....	45.0%	35.2%	26.9%	12.2%	(1.1)%
4.85713% .....	18.4%	7.6%	(1.6)%	(18.3)%	(33.8)%
5.37857% .....	4.4%	(6.9)%	(16.8)%	(35.1)%	(52.5)%
5.90000% and above .....	**	**	**	**	**

### Sensitivity of Class TA to Prepayments Assumed Price 1.0%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
5.900% and below .....	(5.5)%	(17.0)%	(27.2)%	(46.9)%	(66.5)%
5.925% .....	(10.7)%	(22.2)%	(32.3)%	(53.1)%	(74.0)%
5.950% and above .....	**	**	**	**	**

### Sensitivity of Class TB to Prepayments Assumed Price 1.0%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
5.90% and below ...	1.8%	(9.6)%	(19.6)%	(38.3)%	(56.3)%
5.95% .....	(5.4)%	(17.0)%	(27.2)%	(46.8)%	(66.5)%
6.00% and above ...	**	**	**	**	**

## SECURITY GROUP 2

### Sensitivity of Class IP to Prepayments Assumed Price 8.2%\*

	<u>PSA Prepayment Assumption Rates</u>				
	<u>175%</u>	<u>210%</u>	<u>250%</u>	<u>500%</u>	<u>1,610%</u>
	66.5%	66.5%	66.5%	55.2%	0.0%

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

### SECURITY GROUP 3

#### Sensitivity of Class AS to Prepayments Assumed Price 1.15%

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>260%</u>	<u>450%</u>	<u>600%</u>
3.65773% .....	49.3%	41.6%	32.3%	24.7%
3.85515% .....	29.5%	21.3%	11.2%	3.1%
4.05258% .....	10.1%	1.2%	(9.8)%	(18.8)%
4.25000% and above .....	**	**	**	**

#### Sensitivity of Class TK to Prepayments Assumed Price 1.0%

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>260%</u>	<u>450%</u>	<u>600%</u>
4.25% and below .....	1.5%	(7.6)%	(19.0)%	(28.5)%
4.30% .....	(5.8)%	(14.9)%	(26.5)%	(36.2)%
4.35% and above .....	**	**	**	**

### SECURITY GROUP 4

#### Sensitivity of Class CS to Prepayments Assumed Price 10.0%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>350%</u>	<u>580%</u>	<u>900%</u>	<u>1,200%</u>
3.85515% .....	22.5%	9.5%	(3.0)%	(21.1)%	(38.7)%
4.85515% .....	11.1%	(2.7)%	(16.1)%	(35.9)%	(55.5)%
5.72758% .....	0.4%	(14.0)%	(28.2)%	(50.0)%	(72.5)%
6.60000% and above .....	**	**	**	**	**

#### Sensitivity of Class NS to Prepayments Assumed Price 9.25%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>350%</u>	<u>580%</u>	<u>900%</u>	<u>1,200%</u>
3.84243% .....	25.2%	12.4%	0.1%	(17.7)%	(34.9)%
4.84243% .....	12.9%	(0.8)%	(14.0)%	(33.5)%	(52.7)%
5.72122% .....	1.4%	(12.9)%	(27.0)%	(48.6)%	(70.9)%
6.60000% and above .....	**	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

## SECURITY GROUP 5

### Sensitivity of Class DS to Prepayments Assumed Price 2.5%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>440%</u>	<u>650%</u>	<u>900%</u>
3.85515% . . . . .	52.6%	45.4%	36.2%	25.8%	13.0%
4.85515% . . . . .	6.4%	(2.0)%	(13.2)%	(26.2)%	(42.8)%
5.02758% . . . . .	(2.6)%	(11.1)%	(22.6)%	(36.3)%	(54.3)%
5.20000% and above . . . .	**	**	**	**	**

### Sensitivity of Class ES to Prepayments Assumed Price 4.0%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>440%</u>	<u>650%</u>	<u>900%</u>
4.01857% . . . . .	45.4%	38.2%	28.7%	18.0%	4.9%
5.01857% . . . . .	16.6%	8.5%	(2.1)%	(14.4)%	(29.7)%
5.46929% . . . . .	3.4%	(5.1)%	(16.4)%	(29.6)%	(46.7)%
5.92000% and above . . . .	**	**	**	**	**

### Sensitivity of Class TC to Prepayments Assumed Price 1.0%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>440%</u>	<u>650%</u>	<u>900%</u>
5.200% and below . . . . .	(5.6)%	(14.2)%	(25.8)%	(40.0)%	(59.1)%
5.225% . . . . .	(10.8)%	(19.4)%	(31.0)%	(46.1)%	(66.6)%
5.250% and above . . . . .	**	**	**	**	**

### Sensitivity of Class TE to Prepayments Assumed Price 1.0%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>440%</u>	<u>650%</u>	<u>900%</u>
5.920% and below . . . . .	(9.6)%	(18.2)%	(29.7)%	(43.9)%	(63.5)%
5.935% . . . . .	(14.0)%	(22.5)%	(33.9)%	(48.6)%	(69.3)%
5.950% and above . . . . .	**	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

## SECURITY GROUP 7

### Sensitivity of Class SC to Prepayments Assumed Price 4.6%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>
3.85448% .....	26.4%	18.8%	11.1%	5.8%
4.85448% .....	1.1%	(7.3)%	(16.1)%	(22.2)%
5.07724% .....	(6.0)%	(14.6)%	(23.5)%	(29.7)%
5.30000% and above .....	**	**	**	**

## SECURITY GROUP 8

### Sensitivity of Class SH to Prepayments Assumed Price 3.0%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.85448% .....	69.3%	56.4%	45.2%	24.6%	4.8%
4.85448% .....	29.9%	17.3%	6.4%	(14.1)%	(34.0)%
5.37724% .....	10.2%	(2.2)%	(13.2)%	(33.8)%	(54.2)%
5.90000% and above .....	**	**	**	**	**

### Sensitivity of Class SL to Prepayments Assumed Price 2.95%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.85448% .....	75.1%	62.2%	50.9%	30.3%	10.5%
4.85448% .....	34.6%	21.9%	11.0%	(9.5)%	(29.3)%
5.42724% .....	12.6%	0.1%	(10.9)%	(31.4)%	(51.8)%
6.00000% and above .....	**	**	**	**	**

### Sensitivity of Class TG to Prepayments Assumed Price 1.0%\*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
5.90% and below . . .	1.2%	(11.2)%	(22.1)%	(43.0)%	(64.4)%
5.95% .....	(6.1)%	(18.3)%	(29.0)%	(50.5)%	(73.0)%
6.00% and above . . .	**	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

**Sensitivity of Class TH to Prepayments  
Assumed Price 1.0%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
5.900% and below . . . . .	(6.1)%	(18.3)%	(29.0)%	(49.9)%	(71.8)%
5.925% . . . . .	(11.4)%	(23.3)%	(33.9)%	(55.1)%	(78.0)%
5.950% and above . . . . .	**	**	**	**	**

**SECURITY GROUP 9**

**Sensitivity of Class GS to Prepayments  
Assumed Price 4.0%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>
3.84444% . . . . .	33.5%	23.4%	15.6%	7.6%
4.84444% . . . . .	4.9%	(6.5)%	(15.4)%	(24.7)%
5.09722% . . . . .	(3.5)%	(15.1)%	(24.2)%	(33.9)%
5.35000% and above . . . . .	**	**	**	**

**Sensitivity of Class SU to Prepayments  
Assumed Price 2.8%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>
3.82854% . . . . .	31.9%	21.7%	13.9%	5.8%
4.82854% . . . . .	(17.7)%	(29.0)%	(38.0)%	(48.1)%
4.83927% . . . . .	(21.0)%	(32.1)%	(41.0)%	(51.6)%
4.85000% and above . . . . .	**	**	**	**

**Sensitivity of Class TD to Prepayments  
Assumed Price 72.2%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>
3.81264% . . . . .	11.3%	14.8%	17.3%	19.6%
4.81264% . . . . .	11.3%	14.8%	17.3%	19.6%
4.88132% . . . . .	8.7%	12.2%	14.7%	17.0%
4.95000% and above . . . . .	3.2%	6.7%	9.2%	11.6%

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

**SECURITY GROUP 10**

**Sensitivity of Class BI to Prepayments  
Assumed Price 14.25%\***

<b>PSA Prepayment Assumption Rates</b>				
<b>100%</b>	<b>120%</b>	<b>171%</b>	<b>250%</b>	<b>400%</b>
8.7%	6.4%	0.0%	(11.2)%	(35.4)%

**Sensitivity of Class GI to Prepayments  
Assumed Price 10.6%\***

<b>PSA Prepayment Assumption Rates</b>				
<b>100%</b>	<b>120%</b>	<b>135%</b>	<b>250%</b>	<b>400%</b>
7.7%	3.5%	0.2%	(27.7)%	(66.5)%

**Sensitivity of Class HI to Prepayments  
Assumed Price 14.4%\***

<b>PSA Prepayment Assumption Rates</b>				
<b>100%</b>	<b>120%</b>	<b>165%</b>	<b>250%</b>	<b>400%</b>
8.1%	5.8%	0.1%	(11.9)%	(36.1)%

**Sensitivity of Class IG to Prepayments  
Assumed Price 12.65%\***

<b>PSA Prepayment Assumption Rates</b>				
<b>100%</b>	<b>120%</b>	<b>149%</b>	<b>250%</b>	<b>400%</b>
7.9%	4.8%	0.1%	(18.4)%	(49.2)%

**SECURITY GROUP 12**

**Sensitivity of Class SJ to Prepayments  
Assumed Price 3.65%\***

<b>30-day Average SOFR</b>	<b>PSA Prepayment Assumption Rates</b>				
	<b>100%</b>	<b>250%</b>	<b>440%</b>	<b>650%</b>	<b>900%</b>
3.85579% . . . . .	37.3%	29.6%	19.6%	8.1%	(6.2)%
4.85579% . . . . .	6.0%	(2.5)%	(13.8)%	(27.1)%	(44.2)%
5.10290% . . . . .	(2.8)%	(11.5)%	(23.1)%	(36.8)%	(55.0)%
5.35000% and above . . . .	**	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

**SECURITY GROUP 13**

**Sensitivity of Class JS to Prepayments  
Assumed Price 4.65%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>
3.84343% . . . . .	24.9%	16.7%	8.2%	(3.5)%	(15.8)%
4.84343% . . . . .	(0.1)%	(8.9)%	(18.0)%	(30.9)%	(44.9)%
5.04672% . . . . .	(6.9)%	(15.6)%	(24.7)%	(37.8)%	(52.2)%
5.25000% and above . . . .	**	**	**	**	**

**Sensitivity of Class TI to Prepayments  
Assumed Price 1.65%\***

<u>PSA Prepayment Assumption Rates</u>					
<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>539%</u>	<u>600%</u>	<u>800%</u>
24.8%	16.6%	8.1%	0.0%	(3.6)%	(15.9)%

**Sensitivity of Class TJ to Prepayments  
Assumed Price 1.0%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>
5.250% and below . . . . .	(5.8)%	(14.5)%	(23.6)%	(36.7)%	(51.3)%
5.275% . . . . .	(11.0)%	(19.6)%	(28.7)%	(41.8)%	(57.1)%
5.300% and above . . . . .	**	**	**	**	**

**SECURITY GROUP 14**

**Sensitivity of Class KS to Prepayments  
Assumed Price 6.5%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.84310% . . . . .	28.5%	17.6%	8.2%	(8.7)%	(24.4)%
4.84310% . . . . .	11.0%	(0.4)%	(10.3)%	(28.6)%	(46.0)%
5.42155% . . . . .	0.2%	(11.5)%	(21.7)%	(40.9)%	(59.8)%
6.00000% and above . . . .	**	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.



**SECURITY GROUP 15**

**Sensitivity of Class LS to Prepayments  
Assumed Price 5.25%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>
3.81264% .....	22.7%	14.8%	6.7%	1.2%
4.81264% .....	0.4%	(8.1)%	(17.0)%	(23.2)%
5.05632% .....	(6.6)%	(15.1)%	(24.1)%	(30.4)%
5.30000% and above .....	**	**	**	**

**SECURITY GROUP 16**

**Sensitivity of Class PI to Prepayments  
Assumed Price 6.65%\***

<u>PSA Prepayment Assumption Rates</u>				
<u>200%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>	<u>1,974%</u>
91.9%	91.9%	91.9%	88.1%	0.0%

**SECURITY GROUP 17**

**Sensitivity of Class IN to Prepayments  
Assumed Price 20.3%\***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>260%</u>	<u>347%</u>	<u>450%</u>	<u>600%</u>
21.7%	8.1%	0.1%	(9.3)%	(22.3)%

**Sensitivity of Class MI to Prepayments  
Assumed Price 22.25%\***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>260%</u>	<u>450%</u>	<u>503%</u>	<u>600%</u>
21.3%	13.0%	2.9%	0.0%	(5.3)%

**Sensitivity of Class MS to Prepayments  
Assumed Price 8.6%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>260%</u>	<u>450%</u>	<u>600%</u>
3.85757% .....	19.2%	10.8%	0.6%	(7.8)%
4.85757% .....	5.7%	(3.1)%	(14.2)%	(23.3)%
5.42879% .....	(3.0)%	(12.1)%	(23.5)%	(33.0)%
6.00000% and above .....	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

**SECURITY GROUP 18**

**Sensitivity of Class CI to Prepayments  
Assumed Price 19.0%\***

<b>PSA Prepayment Assumption Rates</b>			
<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>
22.0%	11.6%	0.0%	(7.9)%

**Sensitivity of Class DI to Prepayments  
Assumed Price 15.2%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>250%</u>	<u>342%</u>	<u>400%</u>	<u>500%</u>
26.5%	10.3%	0.1%	(6.1)%	(16.1)%

**Sensitivity of Class IC to Prepayments  
Assumed Price 21.25%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>475%</u>	<u>500%</u>
19.9%	12.1%	4.1%	0.0%	(1.3)%

**Sensitivity of Class ID to Prepayments  
Assumed Price 16.75%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>250%</u>	<u>361%</u>	<u>400%</u>	<u>500%</u>
24.5%	10.8%	0.0%	(3.7)%	(13.0)%

**Sensitivity of Class IY to Prepayments  
Assumed Price 34.35%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>	<u>600%</u>
15.7%	12.9%	8.2%	4.3%	0.0%

**Sensitivity of Class SP to Prepayments  
Assumed Price 5.0%\***

<u>30-day Average SOFR</u>	<b>PSA Prepayment Assumption Rates</b>			
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>
3.81264% .....	24.4%	16.8%	9.0%	3.7%
4.81264% .....	1.1%	(7.3)%	(16.1)%	(22.2)%
5.05632% .....	(6.1)%	(14.6)%	(23.6)%	(29.8)%
5.30000% and above .....	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

**Sensitivity of Class VI to Prepayments**  
**Assumed Price 32.6%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>	<u>563%</u>
16.4%	12.8%	7.2%	2.9%	0.0%

**Sensitivity of Class XI to Prepayments**  
**Assumed Price 18.15%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>250%</u>	<u>335%</u>	<u>400%</u>	<u>500%</u>
19.7%	7.5%	0.1%	(5.7)%	(14.4)%

**Sensitivity of Class YI to Prepayments**  
**Assumed Price 36.15%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>	<u>646%</u>
15.0%	13.0%	9.1%	5.7%	0.0%

**SECURITY GROUPS 15 AND 18**

**Sensitivity of Class SN to Prepayments**  
**Assumed Price 5.0%\***

<u>30-day Average SOFR</u>	<b>PSA Prepayment Assumption Rates</b>			
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>
3.81264% .....	24.4%	16.8%	8.9%	3.6%
4.81264% .....	1.1%	(7.3)%	(16.1)%	(22.2)%
5.05632% .....	(6.1)%	(14.6)%	(23.6)%	(29.8)%
5.30000% and above .....	**	**	**	**

**SECURITY GROUP 19**

**Sensitivity of Class PS to Prepayments**  
**Assumed Price 3.65%**

<u>30-day Average SOFR</u>	<b>PSA Prepayment Assumption Rates</b>				
	<u>100%</u>	<u>250%</u>	<u>439%</u>	<u>650%</u>	<u>900%</u>
3.39741% .....	28.0%	20.3%	10.2%	(1.3)%	(15.6)%
3.79827% .....	15.7%	7.5%	(3.1)%	(15.5)%	(30.9)%
4.19914% .....	2.9%	(5.6)%	(16.9)%	(30.2)%	(47.4)%
4.60000% and above .....	**	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

**Sensitivity of Class SG to Prepayments  
Assumed Price 7.8%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>439%</u>	<u>650%</u>	<u>900%</u>
3.79827% .....	22.2%	14.3%	4.0%	(7.9)%	(22.7)%
4.79827% .....	7.6%	(0.8)%	(11.8)%	(24.8)%	(41.3)%
5.37414% .....	(1.8)%	(10.4)%	(21.8)%	(35.4)%	(53.2)%
5.95000% and above . . . .	**	**	**	**	**

**SECURITY GROUP 20**

**Sensitivity of Class IU to Prepayments  
Assumed Price 18.65%\***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>260%</u>	<u>376%</u>	<u>450%</u>	<u>600%</u>
24.6%	11.0%	0.0%	(7.0)%	(20.9)%

**Sensitivity of Class LI to Prepayments  
Assumed Price 20.6%\***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>260%</u>	<u>450%</u>	<u>525%</u>	<u>600%</u>
23.5%	14.9%	4.3%	0.1%	(4.3)%

**Sensitivity of Class QS to Prepayments  
Assumed Price 7.0%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>260%</u>	<u>450%</u>	<u>600%</u>
3.85757% .....	25.4%	16.9%	6.4%	(2.2)%
4.85757% .....	9.2%	0.2%	(11.0)%	(20.3)%
5.42879% .....	(0.9)%	(10.1)%	(21.7)%	(31.4)%
6.00000% and above .....	**	**	**	**

**SECURITY GROUPS 17 AND 20**

**Sensitivity of Class IL to Prepayments  
Assumed Price 18.0%\***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>257%</u>	<u>260%</u>	<u>450%</u>	<u>600%</u>
17.7%	0.1%	(0.3)%	(22.0)%	(37.4)%

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

**Sensitivity of Class KI to Prepayments  
Assumed Price 21.0%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>260%</u>	<u>450%</u>	<u>520%</u>	<u>600%</u>
22.9%	14.4%	4.0%	0.0%	(4.5)%

**Sensitivity of Class UI to Prepayments  
Assumed Price 19.1%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>260%</u>	<u>368%</u>	<u>450%</u>	<u>600%</u>
23.8%	10.1%	0.0%	(7.7)%	(21.4)%

**SECURITY GROUP 21**

**Sensitivity of Class IA to Prepayments  
Assumed Price 10.2%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>200%</u>	<u>400%</u>	<u>450%</u>	<u>800%</u>	<u>1,973%</u>
64.5%	64.5%	64.5%	53.9%	0.0%

**SECURITY GROUP 22**

**Sensitivity of Class EI to Prepayments  
Assumed Price 19.85%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>250%</u>	<u>295%</u>	<u>400%</u>	<u>500%</u>
20.7%	5.0%	0.1%	(11.1)%	(21.1)%

**Sensitivity of Class IE to Prepayments  
Assumed Price 21.7%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>250%</u>	<u>317%</u>	<u>400%</u>	<u>500%</u>
19.5%	6.4%	0.1%	(7.8)%	(16.9)%

**Sensitivity of Class JI to Prepayments  
Assumed Price 26.35%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>408%</u>	<u>500%</u>
16.6%	8.6%	0.5%	0.0%	(5.1)%

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

**Sensitivity of Class SX to Prepayments**  
**Assumed Price 5.8%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>
3.85579% .....	18.1%	10.2%	2.1%	(3.4)%
4.85579% .....	(2.8)%	(11.3)%	(20.2)%	(26.4)%
5.05290% .....	(8.8)%	(17.3)%	(26.2)%	(32.5)%
5.25000% and above .....	**	**	**	**

**Sensitivity of Class TX to Prepayments**  
**Assumed Price 1.1%\***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>
5.25% and below .....	22.1%	14.4%	6.5%	1.1%
5.40% .....	6.3%	(2.0)%	(10.6)%	(16.5)%
5.55% and above .....	**	**	**	**

\* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

\*\* Indicates that investors will suffer a loss of virtually all of their investment.

**CERTAIN UNITED STATES FEDERAL INCOME TAX CONSEQUENCES**

The following tax discussion, when read in conjunction with the discussion of “Certain United States Federal Income Tax Consequences” in the Base Offering Circular, describes the material United States federal income tax considerations for investors in the Securities. However, these two tax discussions do not purport to deal with all United States federal tax consequences applicable to all categories of investors, some of which may be subject to special rules.

**REMIC Election**

In the opinion of Cleary Gottlieb Steen & Hamilton LLP, the Trust will constitute a Single REMIC Series for United States federal income tax purposes.

**Regular Securities**

The Regular Securities will be treated as debt instruments issued by the Trust REMIC for United States federal income tax purposes. Income on the Regular Securities must be reported under an accrual method of accounting.

The Notional and Accrual Classes of Regular Securities will be issued with original issue discount (“OID”), and certain other Classes of Regular Securities may be issued with OID. See “*Certain United States Federal Income Tax Consequences — Tax Treatment of Regular Securities — Original Issue Discount,*” “*— Variable Rate Securities*” and “*— Interest Weighted Securities and Non-VRDI Securities*” in the Base Offering Circular.

The prepayment assumption that should be used in determining the rates of accrual of OID, if any, on the Regular Securities (as described in “Yield, Maturity and Prepayment Considerations” in this Supplement) is as follows:

<u>Group(s)</u>	<u>PSA</u>
1, 8 and 14	465%
2	210%
3, 6, 17 and 20	260%
4	580%
5 and 12	440%
7, 11, 15, 18 and 22	250%
9 and 16	300%
10	120%
13 and 21	400%
19	439%

In the case of the Floating Rate Classes, the interest rate values to be used for these determinations are the initial Interest Rates as set forth in the Terms Sheet under “Interest Rates.” No representation is made, however, about the rate at which prepayments on the Mortgage Loans underlying any Group of Trust Assets actually will occur or the level of 30-day Average SOFR at any time after the date of this Supplement. See “*Certain United States Federal Income Tax Consequences*” in the Base Offering Circular.

The Regular Securities generally will be treated as “regular interests” in a REMIC for domestic building and loan associations and “real estate assets” for real estate investment trusts (“REITs”) as described in “*Certain United States Federal Income Tax Consequences*” in the Base Offering Circular. Similarly, interest on the Regular Securities will be considered “interest on obligations secured by mortgages on real property” for REITs as described in “*Certain United States Federal Income Tax Consequences*” in the Base Offering Circular.

### **Residual Securities**

The Class R Securities will represent the beneficial ownership of the Residual Interest in the Trust REMIC.

The Residual Securities generally will be treated as “residual interests” in a REMIC for domestic building and loan associations and as “real estate assets” for REITs, as described in “*Certain United States Federal Income Tax Consequences*” in the Base Offering Circular, but will not be treated as debt for United States federal income tax purposes. Instead, the Holders of the Residual Securities will be required to report, and will be taxed on, their pro rata shares of the taxable income or loss of the Trust REMIC, and these requirements will continue until there are no Securities of any Class outstanding. Thus, Residual Holders will have taxable income attributable to the Residual Securities even though they will not receive principal or interest distributions with respect to the Residual Securities, which could result in a negative after-tax return for the Residual Holders. Even though the Holders of the Residual Securities are not entitled to any stated principal or interest payments on the Residual Securities, the Trust REMIC may have substantial taxable income in certain periods, and offsetting tax losses may not occur until much later periods. Accordingly, the Holders of the Residual Securities may experience substantial adverse tax timing consequences. Prospective investors are urged to consult their own tax advisors and consider the after-tax effect of ownership of the Residual Securities and the suitability of the Residual Securities to their investment objectives.

Prospective Holders of Residual Securities should be aware that, at issuance, based on the expected prices of the Regular and Residual Securities and the prepayment assumption described above, the residual interests represented by the Residual Securities will be treated as “noneconomic residual interests” as that term is defined in Treasury regulations.

### **MX Securities**

For a discussion of certain United States federal income tax consequences applicable to the MX Classes, see “*Certain United States Federal Income Tax Consequences — Tax Treatment of MX Securities*”, “*— Exchanges of MX Classes and Regular Classes*” and “*— Taxation of Foreign Holders of REMIC Securities and MX Securities*” in the Base Offering Circular.

**Investors should consult their own tax advisors in determining the United States federal, state, local, foreign and any other tax consequences to them of the purchase, ownership and disposition of the Securities.**

### **ERISA MATTERS**

Ginnie Mae guarantees distributions of principal and interest with respect to the Securities. The Ginnie Mae Guaranty is supported by the full faith and credit of the United States of America. The Regular and MX Securities will qualify as “guaranteed governmental mortgage pool certificates” within the meaning of a Department of Labor regulation, the effect of which is to provide that mortgage loans and participations therein underlying a “guaranteed governmental mortgage pool certificate” will not be considered assets of an employee benefit plan subject to the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), or subject to Section 4975 of the Code (each, a “Plan”), solely by reason of the Plan’s purchase and holding of that certificate.

**Prospective Plan Investors should consult with their advisors to determine whether the purchase, holding or resale of a Security could give rise to a transaction that is prohibited or is not otherwise permissible under either ERISA or the Code.**

Governmental plans and certain church plans, while not subject to the fiduciary responsibility provisions of ERISA or the prohibited transaction provisions of ERISA and the Code, may nevertheless be subject to local, state or other federal laws that are substantially similar to the foregoing provisions of ERISA and the Code (“Similar Law”).

Fiduciaries of any such Plans or governmental or church plans subject to Similar Law should consult with their counsel before purchasing any of the Securities.

See “*ERISA Considerations*” in the Base Offering Circular.

The Residual Securities are not offered to, and may not be transferred to, a Plan Investor.

### **LEGAL INVESTMENT CONSIDERATIONS**

Institutions whose investment activities are subject to legal investment laws and regulations or to review by certain regulatory authorities may be subject to restrictions on investment in the Securities. **No representation is made about the proper characterization of any Class for legal investment or other purposes, or about the permissibility of the purchase by particular investors of any Class under applicable legal investment restrictions.**



**Investors should consult their own legal advisors regarding applicable investment restrictions and the effect of any restrictions on the liquidity of the Securities prior to investing in the Securities.**

*See “Legal Investment Considerations” in the Base Offering Circular.*

#### **PLAN OF DISTRIBUTION**

Subject to the terms and conditions of the Sponsor Agreement, the Sponsor has agreed to purchase all of the Securities if any are sold and purchased. The Sponsor proposes to offer the Regular and MX Classes to the public from time to time for sale in negotiated transactions at varying prices to be determined at the time of sale, plus accrued interest, from (1) November 1, 2024 on the Fixed Rate Classes and (2) November 20, 2024 on the Floating Rate and Inverse Floating Rate Classes. The Sponsor may effect these transactions by sales to or through certain securities dealers. These dealers may receive compensation in the form of discounts, concessions or commissions from the Sponsor and/or commissions from any purchasers for which they act as agents. Some of the Securities may be sold through dealers in relatively small sales. In the usual case, the commission charged on a relatively small sale of securities will be a higher percentage of the sales price than that charged on a large sale of securities.

#### **INCREASE IN SIZE**

Before the Closing Date, Ginnie Mae, the Trustee and the Sponsor may agree to increase the size of this offering. In that event, the Securities will have the same characteristics as described in this Supplement, except that (1) the Original Class Principal Balance (or original Class Notional Balance) and (2) the Scheduled Principal Balances or Aggregate Scheduled Principal Balances of each Class receiving principal distributions or interest distributions based upon a notional balance from the same Trust Asset Group will increase by the same proportion. The Trust Agreement, the Final Data Statement, the Final Schedules and the Supplemental Statement, if any, will reflect any increase in the size of the transaction.

#### **LEGAL MATTERS**

Certain legal matters will be passed upon for Ginnie Mae by Hunton Andrews Kurth LLP, for the Trust by Cleary Gottlieb Steen & Hamilton LLP and Marcell Solomon & Associates, P.C., and for the Trustee by Faegre Drinker Biddle & Reath LLP.

Available Combinations(1)

Class	REMIC Securities		MX Securities						
	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)	
<b>Security Group 2</b>									
Combination 1(6)									
AP	\$ 15,416,000	IP	\$ 3,854,000	NTL(PAC/AD)	6.00%	FIX/IO	38384XJ53	October 2051	
		PJ	15,416,000	PAC/AD	6.25	FIX	38384XJ61	October 2051	
		PK	15,416,000	PAC/AD	6.00	FIX	38384XJ79	October 2051	
		PL	15,416,000	PAC/AD	5.75	FIX	38384XJ87	October 2051	
		PM	15,416,000	PAC/AD	5.50	FIX	38384XJ95	October 2051	
		PN	15,416,000	PAC/AD	5.25	FIX	38384XK28	October 2051	
		PQ	15,416,000	PAC/AD	5.00	FIX	38384XK36	October 2051	
<b>Security Group 5</b>									
Combination 2									
AV	\$ 2,784,000	AY	\$ 6,194,000	SEQ	5.50%	FIX	38384XK44	November 2054	
AZ	3,410,000								
<b>Security Group 7</b>									
Combination 3									
VC	\$ 11,937,000	CY	\$ 28,337,355	SEQ	5.00%	FIX	38384XK51	November 2054	
ZC	16,400,355								
<b>Security Group 10</b>									
Combination 4(6)									
BA	\$ 19,571,000	BC	\$ 22,144,000	SEQ	2.00%	FIX	38384XK69	October 2051	
BL	2,573,000	BD	22,144,000	SEQ	2.50	FIX	38384XK77	October 2051	
		BE	22,144,000	SEQ	3.00	FIX	38384XK85	October 2051	
		BG	22,144,000	SEQ	3.50	FIX	38384XK93	October 2051	
		BH	16,608,000	SEQ	4.00	FIX	38384XL27	October 2051	
		BI	9,490,285	NTL(SEQ)	3.50	FIX/IO	38384XL35	October 2051	
		BJ	13,286,400	SEQ	4.50	FIX	38384XL43	October 2051	

REMIC Securities		MX Securities						
Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Combination 5(6)								
GA	\$147,324,000	G	\$147,324,000	SEQ	2.00%	FIX	38384XL50	March 2047
		GB	147,324,000	SEQ	2.50	FIX	38384XL68	March 2047
		GE	147,324,000	SEQ	3.00	FIX	38384XL76	March 2047
		GH	110,493,000	SEQ	4.00	FIX	38384XL84	March 2047
		GI	63,138,857	NTL(SEQ)	3.50	FIX/IO	38384XL92	March 2047
		GJ	88,394,400	SEQ	4.50	FIX	38384XM26	March 2047
Combination 6(6)								
GA	\$147,324,000	GD	\$176,922,000	SEQ	3.50%	FIX	38384XM34	October 2049
GM	29,598,000	GK	176,922,000	SEQ	2.00	FIX	38384XM42	October 2049
		GN	176,922,000	SEQ	2.50	FIX	38384XM59	October 2049
		GP	176,922,000	SEQ	3.00	FIX	38384XM67	October 2049
		GQ	132,691,500	SEQ	4.00	FIX	38384XM75	October 2049
		GT	106,153,200	SEQ	4.50	FIX	38384XM83	October 2049
		IG	75,823,714	NTL(SEQ)	3.50	FIX/IO	38384XM91	October 2049
Combination 7(6)								
GA	\$147,324,000	GC	\$202,935,000	SEQ	3.50%	FIX	38384XN25	October 2051
GL	26,013,000	H	202,935,000	SEQ	2.00	FIX	38384XN33	October 2051
GM	29,598,000	HI	86,972,142	NTL(SEQ)	3.50	FIX/IO	38384XN41	October 2051
		HN	202,935,000	SEQ	2.50	FIX	38384XN58	October 2051
		HP	202,935,000	SEQ	3.00	FIX	38384XN66	October 2051
		HQ	152,201,250	SEQ	4.00	FIX	38384XN74	October 2051
		HT	121,761,000	SEQ	4.50	FIX	38384XN82	October 2051
Combination 8								
BZ	\$ 3,459,977	ZA	\$ 35,165,966	SEQ	3.50%	FIX/Z	38384XN90	November 2054
GZ	31,705,989							
Combination 9								
MF	\$ 50,000,000	FM	\$ 50,000,000	PT	(5)	FLT	38384XP23	November 2054
TI	50,000,000							

**Security Group 13**

REMIC Securities

MX Securities

Class	Original Class Principal Balance or Class Notional Balance		Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)		Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
	Principal Balance	Notional Balance		Principal Balance	Notional Balance					
<b>Security Group 16</b>										
Combination 10(6)										
PA	\$ 28,654,000		PB	\$ 28,654,000		PAC/AD	6.25%	FIX	38384XP31	September 2054
			PC	28,654,000		PAC/AD	6.00	FIX	38384XP49	September 2054
			PD	28,654,000		PAC/AD	5.75	FIX	38384XP56	September 2054
			PE	28,654,000		PAC/AD	5.50	FIX	38384XP64	September 2054
			PG	28,654,000		PAC/AD	6.50	FIX	38384XP72	September 2054
			PH	28,654,000		PAC/AD	5.00	FIX	38384XP80	September 2054
			PI	6,612,461		NTL(PAC/AD)	6.50	FIX/IO	38384XP98	September 2054
<b>Security Group 17</b>										
Combination 11(6)										
NA	\$ 13,669,000		MI	\$ 1,627,965		NTL(PT)	6.00%	FIX/IO	38384XQ22	November 2054
NL	4,045,581		MP	9,767,790		PT	5.50	FIX	38384XQ30	November 2054
NM	1,821,000		MQ	13,023,720		PT	5.25	FIX	38384XQ48	November 2054
			MT	19,535,581		PT	5.00	FIX	38384XQ55	November 2054
			NQ	19,535,581		PT	4.50	FIX	38384XQ63	November 2054
			NT	19,535,581		PT	4.75	FIX	38384XQ71	November 2054
Combination 12(6)										
NA	\$ 13,669,000		IN	\$ 1,290,833		NTL(SEQ)	6.00%	FIX/IO	38384XQ89	March 2052
NM	1,821,000		N	10,326,666		SEQ	5.25	FIX	38384XQ97	March 2052
			NH	15,490,000		SEQ	4.50	FIX	38384XR21	March 2052
			NJ	15,490,000		SEQ	4.75	FIX	38384XR39	March 2052
			NK	15,490,000		SEQ	5.00	FIX	38384XR47	March 2052
			NP	7,745,000		SEQ	5.50	FIX	38384XR54	March 2052
<b>Security Group 18</b>										
Combination 13(6)										
D	\$130,311,000		CE	\$175,584,000		SEQ	4.50%	FIX	38384XR62	April 2053
DB	18,472,000		CG	175,584,000		SEQ	4.75	FIX	38384XR70	April 2053
DM	16,445,000		CH	175,584,000		SEQ	5.00	FIX	38384XR88	April 2053
DN	10,356,000		CI	15,962,181		NTL(SEQ)	5.50	FIX/IO	38384XR96	April 2053
			CJ	87,792,000		SEQ	5.50	FIX	38384XS20	April 2053

REMIC Securities

MX Securities

Class	Original Class		Related MX Class	Maximum		Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
	Principal Balance or Class Notional Balance	Notional Balance		Principal Balance or Class Notional Balance(2)	Balance(2)					
Combination 14(6)										
D	\$130,311,000		DH	\$148,783,000		SEQ	4.50%	FIX	38384XS38	April 2051
DB	18,472,000		DJ	148,783,000		SEQ	4.75	FIX	38384XS46	April 2051
			DK	148,783,000		SEQ	5.00	FIX	38384XS53	April 2051
			DP	74,391,500		SEQ	5.50	FIX	38384XS61	April 2051
			ID	13,525,727		NTL(SEQ)	5.50	FIX/IO	38384XS79	April 2051
Combination 15(6)										
DB	\$ 18,472,000		VI	\$ 6,335,363		NTL(SEQ)	5.50%	FIX/IO	38384XS87	November 2054
DM	16,445,000		WY	69,689,000		SEQ	4.50	FIX	38384XS95	November 2054
DN	10,356,000		XY	69,689,000		SEQ	5.00	FIX	38384XT29	November 2054
DY	24,416,000		Y	46,459,333		SEQ	5.25	FIX	38384XT37	November 2054
			YX	34,844,500		SEQ	5.50	FIX	38384XT45	November 2054
Combination 16(6)										
D	\$130,311,000		CK	\$200,000,000		PT	4.50%	FIX	38384XT52	November 2054
DB	18,472,000		CM	200,000,000		PT	4.75	FIX	38384XT60	November 2054
DM	16,445,000		CN	200,000,000		PT	5.00	FIX	38384XT78	November 2054
DN	10,356,000		CP	100,000,000		PT	5.50	FIX	38384XT86	November 2054
DY	24,416,000		IC	18,181,818		NTL(PT)	5.50	FIX/IO	38384XT94	November 2054
Combination 17(6)										
DN	\$ 10,356,000		EY	\$ 34,772,000		SEQ	4.50%	FIX	38384XU27	November 2054
DY	24,416,000		GY	34,772,000		SEQ	5.00	FIX	38384XU35	November 2054
			HY	23,181,333		SEQ	5.25	FIX	38384XU43	November 2054
			JY	17,386,000		SEQ	5.50	FIX	38384XU50	November 2054
			YI	3,161,090		NTL(SEQ)	5.50	FIX/IO	38384XU68	November 2054
Combination 18(6)										
DM	\$ 16,445,000		IY	\$ 4,656,090		NTL(SEQ)	5.50%	FIX/IO	38384XU76	November 2054
DN	10,356,000		LY	51,217,000		SEQ	4.50	FIX	38384XU84	November 2054
DY	24,416,000		MY	51,217,000		SEQ	5.00	FIX	38384XU92	November 2054
			NY	34,144,666		SEQ	5.25	FIX	38384XV26	November 2054
			PY	25,608,500		SEQ	5.50	FIX	38384XV34	November 2054

REMIC Securities

MX Securities

Class	Original Class		Related MX Class	Maximum		Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
	Principal Balance or Class Notional Balance	Notional Balance		Principal Balance or Class Notional Balance(2)	Principal Type(3)					
Combination 19(6)										
D	\$130,311,000		DQ	\$165,228,000		SEQ	4.50%	FIX	38384XV42	July 2052
DB	18,472,000		DT	165,228,000		SEQ	4.75	FIX	38384XV59	July 2052
DM	16,445,000		DU	165,228,000		SEQ	5.00	FIX	38384XV67	July 2052
			DV	82,614,000		SEQ	5.50	FIX	38384XV75	July 2052
			XI	16,522,800		NTL(SEQ)	5.00	FIX/IO	38384XV83	July 2052
Combination 20(6)										
D	\$130,311,000		DC	\$130,311,000		SEQ	4.50%	FIX	38384XV91	September 2049
			DE	130,311,000		SEQ	4.75	FIX	38384XW25	September 2049
			DG	65,155,500		SEQ	5.50	FIX	38384XW33	September 2049
			DI	11,846,454		NTL(SEQ)	5.50	FIX/IO	38384XW41	September 2049
<b>Security Groups 15 and 18</b>										
Combination 21(7)										
FP	\$100,000,000		FN	\$115,368,682		PT	(5)	FLT	38384XW58	November 2054
LF	15,368,682									
Combination 22(7)										
LS	\$ 15,368,682		SN	\$115,368,682		NTL(PT)	(5)	INV/IO	38384XW66	November 2054
SP	100,000,000									
<b>Security Group 20</b>										
Combination 23										
ML	\$ 10,840,420		MB	\$ 15,919,420		SEQ	5.00%	FIX	38384XW74	November 2054
MN	5,079,000									
Combination 24(6)										
MA	\$ 39,545,000		L	\$ 55,464,420		PT	4.50%	FIX	38384XW82	November 2054
ML	10,840,420		LA	55,464,420		PT	5.00	FIX	38384XW90	November 2054
MN	5,079,000		LB	55,464,420		PT	4.75	FIX	38384XX24	November 2054
			LC	36,976,280		PT	5.25	FIX	38384XX32	November 2054
			LD	27,732,210		PT	5.50	FIX	38384XX40	November 2054
			LI	4,622,035		NTL(PT)	6.00	FIX/IO	38384XX57	November 2054

REMIC Securities			MX Securities						
Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)	
Combination 25(6)									
MA	\$ 39,545,000	IU	\$ 3,718,666	NTL(SEQ)	6.00%	FIX/IO	38384XX65	May 2052	
MN	5,079,000	M	29,749,333	SEQ	5.25	FIX	38384XX73	May 2052	
		MH	44,624,000	SEQ	4.50	FIX	38384XX81	May 2052	
		MJ	44,624,000	SEQ	4.75	FIX	38384XX99	May 2052	
		MI	44,624,000	SEQ	5.00	FIX	38384XX23	May 2052	
		MW	22,312,000	SEQ	5.50	FIX	38384XX31	May 2052	
<b>Security Groups 17 and 20</b>									
Combination 26(7)									
NF	\$ 19,535,580	FS	\$ 75,000,000	PT	(5)	FLT	38384XX49	November 2054	
QF	55,464,420								
Combination 27(6)(7)									
MA	\$ 39,545,000	LM	\$ 60,114,000	SEQ	4.50%	FIX	38384XX56	May 2052	
MN	5,079,000	LN	60,114,000	SEQ	4.75	FIX	38384XX64	May 2052	
NA	13,669,000	LP	60,114,000	SEQ	5.00	FIX	38384XX72	May 2052	
NM	1,821,000	LQ	40,076,000	SEQ	5.25	FIX	38384XX80	May 2052	
		LT	30,057,000	SEQ	5.50	FIX	38384XX98	May 2052	
		UI	5,009,500	NTL(SEQ)	6.00	FIX/IO	38384XXZ22	May 2052	
Combination 28(6)(7)									
MA	\$ 39,545,000	IL	\$ 5,321,400	NTL(SEQ)	5.00%	FIX/IO	38384XXZ30	December 2050	
NA	13,669,000	LE	53,214,000	SEQ	4.50	FIX	38384XXZ48	December 2050	
		IG	53,214,000	SEQ	4.75	FIX	38384XXZ55	December 2050	
		LH	53,214,000	SEQ	5.00	FIX	38384XXZ63	December 2050	
		IJ	35,476,000	SEQ	5.25	FIX	38384XXZ71	December 2050	
		LK	26,607,000	SEQ	5.50	FIX	38384XXZ89	December 2050	
Combination 29(7)									
ML	\$ 10,840,420	KB	\$ 21,786,001	SEQ	5.00%	FIX	38384XXZ97	November 2054	
MN	5,079,000								
NL	4,045,581								
NM	1,821,000								

REMIC Securities

MX Securities

Class	Original Class Principal Balance or Class Notional Balance		Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)		Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
	Principal Balance	Notional Balance		Principal Balance	Notional Balance					
Combination 30(6)(7)										
MA	\$ 39,545,000		K	\$ 75,000,001		PT	4.50%	FIX	38384X2A0	November 2054
ML	10,840,420		KC	75,000,001		PT	4.75	FIX	38384X2B8	November 2054
MN	5,079,000		KD	75,000,001		PT	5.00	FIX	38384X2C6	November 2054
NA	13,669,000		KE	50,000,000		PT	5.25	FIX	38384X2D4	November 2054
NL	4,045,581		KG	37,500,000		PT	5.50	FIX	38384X2E2	November 2054
NM	1,821,000		KI	6,250,000		NL(PT)	6.00	FIX/IO	38384X2F9	November 2054
<b>Security Group 21</b>										
Combination 31(6)										
PX	\$ 47,507,000		BP	\$ 47,507,000		PAC/AD	6.50%	FIX	38384X2G7	August 2054
			IA	12,668,533		NL(PAC/AD)	7.50	FIX/IO	38384X2H5	August 2054
			JP	47,507,000		PAC/AD	5.50	FIX	38384X2J1	August 2054
			KP	47,507,000		PAC/AD	6.00	FIX	38384X2K8	August 2054
			P	47,507,000		PAC/AD	7.50	FIX	38384X2L6	August 2054
			PV	47,507,000		PAC/AD	7.00	FIX	38384X2M4	August 2054
<b>Security Group 22</b>										
Combination 32(6)										
EA	\$ 34,987,000		ED	\$ 34,987,000		SEQ	4.00%	FIX	38384X2N2	September 2050
			EG	34,987,000		SEQ	4.25	FIX	38384X2P7	September 2050
			EH	34,987,000		SEQ	4.50	FIX	38384X2Q5	September 2050
			EI	5,831,166		NL(SEQ)	6.00	FIX/IO	38384X2R3	September 2050
			EJ	34,987,000		SEQ	4.75	FIX	38384X2S1	September 2050
			EK	27,989,600		SEQ	5.25	FIX	38384X2T9	September 2050
			EN	23,324,666		SEQ	5.50	FIX	38384X2U6	September 2050
Combination 33(6)										
EA	\$ 34,987,000		EC	\$ 39,649,000		SEQ	5.00%	FIX	38384X2V4	March 2052
EM	4,662,000		EP	39,649,000		SEQ	4.00	FIX	38384X2W2	March 2052
			EQ	39,649,000		SEQ	4.25	FIX	38384X2X0	March 2052
			ET	39,649,000		SEQ	4.50	FIX	38384X2Y8	March 2052
			EU	39,649,000		SEQ	4.75	FIX	38384X2Z5	March 2052
			EV	31,719,200		SEQ	5.25	FIX	38384X3A9	March 2052
			EW	26,432,666		SEQ	5.50	FIX	38384X3B7	March 2052
			IE	6,608,166		NL(SEQ)	6.00	FIX/IO	38384X3C5	March 2052



REMIC Securities			MX Securities					
Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Combination 34								
TX	\$100,000,000	FX	\$100,000,000	PT	(5)	FLT	38384X3D3	November 2054
XF	100,000,000							
Combination 35								
EL	\$ 10,351,000	EB	\$ 15,013,000	SEQ	5.00%	FIX	38384X3E1	November 2054
EM	4,662,000							
Combination 36(6)								
EA	\$ 34,987,000	JC	\$ 50,000,000	PT	4.00%	FIX	38384X3F8	November 2054
EL	10,351,000	JD	50,000,000	PT	4.25	FIX	38384X3G6	November 2054
EM	4,662,000	JE	50,000,000	PT	4.50	FIX	38384X3H4	November 2054
		JG	50,000,000	PT	4.75	FIX	38384X3J0	November 2054
		JH	50,000,000	PT	5.00	FIX	38384X3K7	November 2054
		JI	8,333,333	NLTL(PT)	6.00	FIX/IO	38384X3L5	November 2054
		JK	40,000,000	PT	5.25	FIX	38384X3M3	November 2054
		JN	33,333,333	PT	5.50	FIX	38384X3N1	November 2054

(1) All exchanges must comply with minimum denomination restrictions.

(2) The amount shown for each MX Class represents the maximum Original Class Principal Balance (or original Class Notional Balance) of that Class, assuming it were to be issued on the Closing Date.

(3) As defined under "Class Types" in Appendix I to the Base Offering Circular.

(4) See "Yield, Maturity and Prepayment Considerations — Final Distribution Date" in this Supplement.

(5) The Interest Rate will be calculated as described under "Terms Sheet — Interest Rates" in this Supplement.

(6) In the case of Combinations 1, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 24, 25, 27, 28, 30, 31, 32, 33 and 36, various sub-combinations are permitted. See "Description of the Securities — Modification and Exchange" in the Base Offering Circular for a discussion of subcombinations.

(7) Derived from REMIC classes relating to separate Groups.

**Schedule II**

**SCHEDULED PRINCIPAL BALANCES**

<u>Distribution Date</u>	<u>Class AP</u>	<u>Classes PA and PZ (in the aggregate)</u>	<u>Classes PX and ZP (in the aggregate)</u>
Initial Balance .....	\$15,416,000.00	\$28,767,000.00	\$47,694,000.00
December 2024 .....	15,378,869.98	28,589,910.02	47,514,046.16
January 2025 .....	15,335,026.50	28,400,238.59	47,313,264.48
February 2025 .....	15,284,475.72	28,198,082.02	47,091,693.85
March 2025 .....	15,227,229.74	27,983,549.38	46,849,393.92
April 2025 .....	15,163,306.59	27,756,762.37	46,586,445.08
May 2025 .....	15,092,730.24	27,517,855.23	46,302,948.50
June 2025 .....	15,015,530.63	27,266,974.57	45,999,026.09
July 2025 .....	14,931,743.63	27,004,279.24	45,674,820.43
August 2025 .....	14,841,411.05	26,729,940.10	45,330,494.65
September 2025 .....	14,744,580.56	26,444,139.83	44,966,232.30
October 2025 .....	14,641,305.73	26,147,072.73	44,582,237.19
November 2025 .....	14,531,645.92	25,838,944.40	44,178,733.14
December 2025 .....	14,415,666.26	25,519,971.53	43,755,963.78
January 2026 .....	14,293,437.59	25,190,381.60	43,314,192.23
February 2026 .....	14,165,036.37	24,850,412.54	42,853,700.80
March 2026 .....	14,030,544.60	24,500,312.41	42,374,790.64
April 2026 .....	13,890,049.75	24,140,339.07	41,877,781.33
May 2026 .....	13,743,644.65	23,770,759.82	41,363,010.52
June 2026 .....	13,591,427.39	23,391,850.96	40,830,833.41
July 2026 .....	13,433,501.20	23,003,897.47	40,281,622.32
August 2026 .....	13,269,974.35	22,607,192.53	39,715,766.14
September 2026 .....	13,100,959.97	22,202,037.12	39,133,669.81
October 2026 .....	12,926,575.97	21,788,739.59	38,535,753.74
November 2026 .....	12,746,944.86	21,379,197.94	37,922,453.22
December 2026 .....	12,562,193.61	20,973,367.37	37,294,217.75
January 2027 .....	12,372,453.49	20,571,203.51	36,651,510.45
February 2027 .....	12,177,859.90	20,172,662.46	35,994,807.33
March 2027 .....	11,978,552.20	19,777,700.74	35,324,596.63
April 2027 .....	11,774,673.55	19,386,275.34	34,660,130.40
May 2027 .....	11,566,370.68	18,998,343.67	34,001,337.51
June 2027 .....	11,359,899.85	18,613,863.58	33,348,147.47
July 2027 .....	11,155,243.00	18,232,793.33	32,700,490.52
August 2027 .....	10,952,382.23	17,855,091.63	32,058,297.57
September 2027 .....	10,751,299.82	17,480,717.57	31,421,500.19
October 2027 .....	10,551,978.18	17,109,630.69	30,790,030.63
November 2027 .....	10,354,399.91	16,741,790.91	30,163,821.81
December 2027 .....	10,158,547.74	16,377,158.57	29,542,807.28
January 2028 .....	9,964,404.57	16,015,694.40	28,926,921.23
February 2028 .....	9,771,953.45	15,657,359.54	28,316,098.52
March 2028 .....	9,581,177.59	15,302,115.50	27,710,274.62
April 2028 .....	9,392,060.32	14,949,924.18	27,109,385.60
May 2028 .....	9,204,585.16	14,600,747.88	26,513,368.19
June 2028 .....	9,018,735.75	14,254,549.26	25,922,159.70
July 2028 .....	8,834,495.88	13,911,291.37	25,335,698.05

<u>Distribution Date</u>	<u>Class AP</u>	<u>Classes PA and PZ (in the aggregate)</u>	<u>Classes PX and ZP (in the aggregate)</u>
August 2028	\$ 8,651,849.51	\$13,570,937.60	\$24,753,921.75
September 2028	8,470,780.71	13,233,451.73	24,176,769.90
October 2028	8,291,273.71	12,898,797.91	23,604,182.20
November 2028	8,113,312.87	12,566,940.61	23,036,098.89
December 2028	7,936,882.71	12,237,844.70	22,472,460.82
January 2029	7,761,967.86	11,911,475.36	21,913,209.36
February 2029	7,588,553.12	11,587,907.75	21,358,286.47
March 2029	7,416,623.39	11,273,023.11	20,807,634.64
April 2029	7,246,163.74	10,966,590.48	20,261,196.92
May 2029	7,077,159.35	10,668,385.01	19,718,916.87
June 2029	6,909,595.53	10,378,187.77	19,187,964.10
July 2029	6,743,457.73	10,095,785.62	18,671,153.36
August 2029	6,578,731.54	9,820,971.09	18,168,110.85
September 2029	6,415,402.65	9,553,542.15	17,678,472.58
October 2029	6,253,456.90	9,293,302.13	17,201,884.16
November 2029	6,092,880.26	9,040,059.58	16,738,000.49
December 2029	5,933,658.79	8,793,628.08	16,286,485.54
January 2030	5,775,778.71	8,553,826.17	15,847,012.15
February 2030	5,619,226.35	8,320,477.19	15,419,261.74
March 2030	5,463,988.16	8,093,409.13	15,002,924.11
April 2030	5,310,050.71	7,872,454.55	14,597,697.22
May 2030	5,157,400.68	7,657,450.46	14,203,287.00
June 2030	5,006,024.89	7,448,238.15	13,819,407.09
July 2030	4,855,910.26	7,244,663.13	13,445,778.68
August 2030	4,707,043.82	7,046,575.01	13,082,130.29
September 2030	4,559,412.72	6,853,827.36	12,728,197.60
October 2030	4,413,313.75	6,666,277.66	12,383,723.23
November 2030	4,269,295.57	6,483,787.13	12,048,456.59
December 2030	4,127,329.28	6,306,220.69	11,722,153.69
January 2031	3,987,386.34	6,133,446.84	11,404,576.95
February 2031	3,849,438.62	5,965,337.57	11,095,495.06
March 2031	3,713,458.38	5,801,768.24	10,794,682.80
April 2031	3,579,418.25	5,642,617.53	10,501,920.89
May 2031	3,447,291.23	5,487,767.34	10,216,995.81
June 2031	3,317,050.71	5,337,102.71	9,939,699.69
July 2031	3,188,670.44	5,190,511.70	9,669,830.12
August 2031	3,062,124.51	5,047,885.37	9,407,190.03
September 2031	2,937,387.38	4,909,117.65	9,151,587.55
October 2031	2,814,433.87	4,774,105.30	8,902,835.87
November 2031	2,693,239.13	4,642,747.82	8,660,753.09
December 2031	2,573,778.66	4,514,947.35	8,425,162.12
January 2032	2,456,028.30	4,390,608.68	8,195,890.54
February 2032	2,339,964.20	4,269,639.08	7,972,770.48
March 2032	2,225,562.87	4,151,948.30	7,755,638.50
April 2032	2,112,801.11	4,037,448.50	7,544,335.46
May 2032	2,001,656.06	3,926,054.16	7,338,706.42
June 2032	1,892,105.17	3,817,682.03	7,138,600.56
July 2032	1,784,126.20	3,712,251.08	6,943,871.00

<u>Distribution Date</u>	<u>Class AP</u>	<u>Classes PA and PZ (in the aggregate)</u>	<u>Classes PX and ZP (in the aggregate)</u>
August 2032 . . . . .	\$ 1,677,697.21	\$ 3,609,682.44	\$ 6,754,374.75
September 2032 . . . . .	1,572,796.56	3,509,899.33	6,569,972.62
October 2032 . . . . .	1,469,402.93	3,412,827.00	6,390,529.07
November 2032 . . . . .	1,367,495.25	3,318,392.70	6,215,912.15
December 2032 . . . . .	1,267,052.79	3,226,525.63	6,045,993.38
January 2033 . . . . .	1,168,055.07	3,137,156.84	5,880,647.69
February 2033 . . . . .	1,070,481.89	3,050,219.25	5,719,753.32
March 2033 . . . . .	974,313.36	2,965,647.53	5,563,191.72
April 2033 . . . . .	879,529.84	2,883,378.13	5,410,847.46
May 2033 . . . . .	786,111.95	2,803,349.15	5,262,608.18
June 2033 . . . . .	694,040.60	2,725,500.36	5,118,364.48
July 2033 . . . . .	603,296.94	2,649,773.15	4,978,009.87
August 2033 . . . . .	513,862.42	2,576,110.43	4,841,440.65
September 2033 . . . . .	425,718.69	2,504,456.67	4,708,555.87
October 2033 . . . . .	338,847.69	2,434,757.80	4,579,257.28
November 2033 . . . . .	253,231.60	2,366,961.20	4,453,449.19
December 2033 . . . . .	168,852.84	2,301,015.65	4,331,038.46
January 2034 . . . . .	85,694.09	2,236,871.28	4,211,934.41
February 2034 . . . . .	3,738.23	2,174,479.59	4,096,048.78
March 2034 . . . . .	0.00	2,113,793.32	3,983,295.61
April 2034 . . . . .	0.00	2,054,766.53	3,873,591.25
May 2034 . . . . .	0.00	1,997,354.45	3,766,854.25
June 2034 . . . . .	0.00	1,941,513.54	3,663,005.32
July 2034 . . . . .	0.00	1,887,201.41	3,561,967.27
August 2034 . . . . .	0.00	1,834,376.82	3,463,664.95
September 2034 . . . . .	0.00	1,782,999.60	3,368,025.22
October 2034 . . . . .	0.00	1,733,030.67	3,274,976.85
November 2034 . . . . .	0.00	1,684,432.00	3,184,450.53
December 2034 . . . . .	0.00	1,637,166.57	3,096,378.76
January 2035 . . . . .	0.00	1,591,198.35	3,010,695.84
February 2035 . . . . .	0.00	1,546,492.27	2,927,337.83
March 2035 . . . . .	0.00	1,503,014.20	2,846,242.46
April 2035 . . . . .	0.00	1,460,730.92	2,767,349.12
May 2035 . . . . .	0.00	1,419,610.12	2,690,598.83
June 2035 . . . . .	0.00	1,379,620.32	2,615,934.13
July 2035 . . . . .	0.00	1,340,730.90	2,543,299.14
August 2035 . . . . .	0.00	1,302,912.07	2,472,639.41
September 2035 . . . . .	0.00	1,266,134.81	2,403,901.99
October 2035 . . . . .	0.00	1,230,370.92	2,337,035.28
November 2035 . . . . .	0.00	1,195,592.90	2,271,989.11
December 2035 . . . . .	0.00	1,161,774.04	2,208,714.59
January 2036 . . . . .	0.00	1,128,888.32	2,147,164.16
February 2036 . . . . .	0.00	1,096,910.41	2,087,291.52
March 2036 . . . . .	0.00	1,065,815.67	2,029,051.59
April 2036 . . . . .	0.00	1,035,580.13	1,972,400.51
May 2036 . . . . .	0.00	1,006,180.44	1,917,295.56
June 2036 . . . . .	0.00	977,593.90	1,863,695.18
July 2036 . . . . .	0.00	949,798.41	1,811,558.89

<u>Distribution Date</u>	<u>Class AP</u>	<u>Classes PA and PZ (in the aggregate)</u>	<u>Classes PX and ZP (in the aggregate)</u>
August 2036	\$ 0.00	\$ 922,772.45	\$ 1,760,847.32
September 2036	0.00	896,495.10	1,711,522.12
October 2036	0.00	870,946.00	1,663,545.98
November 2036	0.00	846,105.31	1,616,882.56
December 2036	0.00	821,953.76	1,571,496.53
January 2037	0.00	798,472.57	1,527,353.45
February 2037	0.00	775,643.47	1,484,419.83
March 2037	0.00	753,448.70	1,442,663.07
April 2037	0.00	731,870.96	1,402,051.43
May 2037	0.00	710,893.42	1,362,554.02
June 2037	0.00	690,499.70	1,324,140.78
July 2037	0.00	670,673.86	1,286,782.44
August 2037	0.00	651,400.40	1,250,450.52
September 2037	0.00	632,664.23	1,215,117.29
October 2037	0.00	614,450.66	1,180,755.78
November 2037	0.00	596,745.42	1,147,339.72
December 2037	0.00	579,534.59	1,114,843.54
January 2038	0.00	562,804.65	1,083,242.38
February 2038	0.00	546,542.43	1,052,512.02
March 2038	0.00	530,735.14	1,022,628.89
April 2038	0.00	515,370.30	993,570.05
May 2038	0.00	500,435.80	965,313.19
June 2038	0.00	485,919.83	937,836.57
July 2038	0.00	471,810.92	911,119.05
August 2038	0.00	458,097.90	885,140.06
September 2038	0.00	444,769.90	859,879.56
October 2038	0.00	431,816.35	835,318.05
November 2038	0.00	419,226.96	811,436.58
December 2038	0.00	406,991.72	788,216.68
January 2039	0.00	395,100.89	765,640.37
February 2039	0.00	383,545.01	743,690.18
March 2039	0.00	372,314.84	722,349.09
April 2039	0.00	361,401.43	701,600.53
May 2039	0.00	350,796.04	681,428.39
June 2039	0.00	340,490.20	661,816.98
July 2039	0.00	330,475.63	642,751.04
August 2039	0.00	320,744.31	624,215.72
September 2039	0.00	311,288.42	606,196.55
October 2039	0.00	302,100.36	588,679.47
November 2039	0.00	293,172.72	571,650.80
December 2039	0.00	284,498.31	555,097.21
January 2040	0.00	276,070.12	539,005.73
February 2040	0.00	267,881.35	523,363.76
March 2040	0.00	259,925.38	508,159.01
April 2040	0.00	252,195.74	493,379.54
May 2040	0.00	244,686.18	479,013.73
June 2040	0.00	237,390.59	465,050.26
July 2040	0.00	230,303.03	451,478.12

<u>Distribution Date</u>	<u>Class AP</u>	<u>Classes PA and PZ (in the aggregate)</u>	<u>Classes PX and ZP (in the aggregate)</u>
August 2040 . . . . .	\$ 0.00	\$ 223,417.75	\$ 438,286.62
September 2040 . . . . .	0.00	216,729.11	425,465.31
October 2040 . . . . .	0.00	210,231.66	413,004.08
November 2040 . . . . .	0.00	203,920.09	400,893.03
December 2040 . . . . .	0.00	197,789.22	389,122.59
January 2041 . . . . .	0.00	191,834.03	377,683.39
February 2041 . . . . .	0.00	186,049.63	366,566.35
March 2041 . . . . .	0.00	180,431.26	355,762.63
April 2041 . . . . .	0.00	174,974.30	345,263.62
May 2041 . . . . .	0.00	169,674.24	335,060.94
June 2041 . . . . .	0.00	164,526.71	325,146.45
July 2041 . . . . .	0.00	159,527.44	315,512.21
August 2041 . . . . .	0.00	154,672.31	306,150.53
September 2041 . . . . .	0.00	149,957.27	297,053.88
October 2041 . . . . .	0.00	145,378.42	288,214.97
November 2041 . . . . .	0.00	140,931.94	279,626.70
December 2041 . . . . .	0.00	136,614.12	271,282.15
January 2042 . . . . .	0.00	132,421.37	263,174.60
February 2042 . . . . .	0.00	128,350.17	255,297.50
March 2042 . . . . .	0.00	124,397.12	247,644.49
April 2042 . . . . .	0.00	120,558.90	240,209.38
May 2042 . . . . .	0.00	116,832.28	232,986.14
June 2042 . . . . .	0.00	113,214.13	225,968.91
July 2042 . . . . .	0.00	109,701.40	219,151.99
August 2042 . . . . .	0.00	106,291.13	212,529.83
September 2042 . . . . .	0.00	102,980.42	206,097.04
October 2042 . . . . .	0.00	99,766.48	199,848.35
November 2042 . . . . .	0.00	96,646.57	193,778.68
December 2042 . . . . .	0.00	93,618.04	187,883.03
January 2043 . . . . .	0.00	90,678.32	182,156.60
February 2043 . . . . .	0.00	87,824.88	176,594.66
March 2043 . . . . .	0.00	85,055.31	171,192.65
April 2043 . . . . .	0.00	82,367.21	165,946.12
May 2043 . . . . .	0.00	79,758.28	160,850.73
June 2043 . . . . .	0.00	77,226.29	155,902.28
July 2043 . . . . .	0.00	74,769.05	151,096.68
August 2043 . . . . .	0.00	72,384.44	146,429.93
September 2043 . . . . .	0.00	70,070.39	141,898.16
October 2043 . . . . .	0.00	67,824.91	137,497.61
November 2043 . . . . .	0.00	65,646.04	133,224.61
December 2043 . . . . .	0.00	63,531.89	129,075.58
January 2044 . . . . .	0.00	61,480.61	125,047.07
February 2044 . . . . .	0.00	59,490.41	121,135.69
March 2044 . . . . .	0.00	57,559.55	117,338.17
April 2044 . . . . .	0.00	55,686.34	113,651.31
May 2044 . . . . .	0.00	53,869.12	110,072.01
June 2044 . . . . .	0.00	52,106.31	106,597.24
July 2044 . . . . .	0.00	50,396.33	103,224.08

<u>Distribution Date</u>	<u>Class AP</u>	<u>Classes PA and PZ (in the aggregate)</u>	<u>Classes PX and ZP (in the aggregate)</u>
August 2044 . . . . .	\$ 0.00	\$ 48,737.68	\$ 99,949.66
September 2044 . . . . .	0.00	47,128.89	96,771.21
October 2044 . . . . .	0.00	45,568.52	93,686.03
November 2044 . . . . .	0.00	44,055.19	90,691.48
December 2044 . . . . .	0.00	42,587.54	87,785.01
January 2045 . . . . .	0.00	41,164.26	84,964.14
February 2045 . . . . .	0.00	39,784.08	82,226.45
March 2045 . . . . .	0.00	38,445.74	79,569.59
April 2045 . . . . .	0.00	37,148.05	76,991.28
May 2045 . . . . .	0.00	35,889.83	74,489.28
June 2045 . . . . .	0.00	34,669.94	72,061.44
July 2045 . . . . .	0.00	33,487.27	69,705.66
August 2045 . . . . .	0.00	32,340.75	67,419.89
September 2045 . . . . .	0.00	31,229.32	65,202.14
October 2045 . . . . .	0.00	30,151.98	63,050.49
November 2045 . . . . .	0.00	29,107.72	60,963.05
December 2045 . . . . .	0.00	28,095.59	58,937.99
January 2046 . . . . .	0.00	27,114.66	56,973.54
February 2046 . . . . .	0.00	26,164.01	55,067.98
March 2046 . . . . .	0.00	25,242.76	53,219.61
April 2046 . . . . .	0.00	24,350.06	51,426.80
May 2046 . . . . .	0.00	23,485.06	49,687.98
June 2046 . . . . .	0.00	22,646.97	48,001.58
July 2046 . . . . .	0.00	21,835.00	46,366.12
August 2046 . . . . .	0.00	21,048.37	44,780.13
September 2046 . . . . .	0.00	20,286.34	43,242.20
October 2046 . . . . .	0.00	19,548.20	41,750.94
November 2046 . . . . .	0.00	18,833.24	40,305.00
December 2046 . . . . .	0.00	18,140.77	38,903.10
January 2047 . . . . .	0.00	17,470.14	37,543.96
February 2047 . . . . .	0.00	16,820.71	36,226.34
March 2047 . . . . .	0.00	16,191.83	34,949.05
April 2047 . . . . .	0.00	15,582.91	33,710.92
May 2047 . . . . .	0.00	14,993.36	32,510.83
June 2047 . . . . .	0.00	14,422.60	31,347.67
July 2047 . . . . .	0.00	13,870.08	30,220.37
August 2047 . . . . .	0.00	13,335.24	29,127.89
September 2047 . . . . .	0.00	12,817.58	28,069.22
October 2047 . . . . .	0.00	12,316.56	27,043.38
November 2047 . . . . .	0.00	11,831.71	26,049.41
December 2047 . . . . .	0.00	11,362.53	25,086.38
January 2048 . . . . .	0.00	10,908.55	24,153.40
February 2048 . . . . .	0.00	10,469.33	23,249.58
March 2048 . . . . .	0.00	10,044.42	22,374.07
April 2048 . . . . .	0.00	9,633.38	21,526.05
May 2048 . . . . .	0.00	9,235.81	20,704.70
June 2048 . . . . .	0.00	8,851.29	19,909.26
July 2048 . . . . .	0.00	8,479.43	19,138.94

<u>Distribution Date</u>	<u>Class AP</u>	<u>Classes PA and PZ (in the aggregate)</u>	<u>Classes PX and ZP (in the aggregate)</u>
August 2048	\$ 0.00	\$ 8,119.85	\$ 18,393.03
September 2048	0.00	7,772.18	17,670.79
October 2048	0.00	7,436.06	16,971.54
November 2048	0.00	7,111.14	16,294.59
December 2048	0.00	6,797.07	15,639.28
January 2049	0.00	6,493.53	15,004.98
February 2049	0.00	6,200.20	14,391.06
March 2049	0.00	5,916.75	13,796.91
April 2049	0.00	5,642.90	13,221.96
May 2049	0.00	5,378.35	12,665.62
June 2049	0.00	5,122.81	12,127.35
July 2049	0.00	4,876.01	11,606.60
August 2049	0.00	4,637.67	11,102.86
September 2049	0.00	4,407.54	10,615.61
October 2049	0.00	4,185.36	10,144.35
November 2049	0.00	3,970.88	9,688.62
December 2049	0.00	3,763.88	9,247.94
January 2050	0.00	3,564.10	8,821.87
February 2050	0.00	3,371.34	8,409.95
March 2050	0.00	3,185.37	8,011.76
April 2050	0.00	3,005.97	7,626.90
May 2050	0.00	2,832.95	7,254.94
June 2050	0.00	2,666.11	6,895.52
July 2050	0.00	2,505.24	6,548.23
August 2050	0.00	2,350.16	6,212.72
September 2050	0.00	2,200.69	5,888.62
October 2050	0.00	2,056.66	5,575.58
November 2050	0.00	1,917.88	5,273.28
December 2050	0.00	1,784.19	4,981.37
January 2051	0.00	1,655.43	4,699.54
February 2051	0.00	1,531.45	4,427.49
March 2051	0.00	1,412.08	4,164.90
April 2051	0.00	1,297.19	3,911.49
May 2051	0.00	1,186.62	3,666.97
June 2051	0.00	1,080.24	3,431.06
July 2051	0.00	977.92	3,203.51
August 2051	0.00	879.52	2,984.05
September 2051	0.00	784.91	2,772.42
October 2051	0.00	693.98	2,568.39
November 2051	0.00	606.59	2,371.71
December 2051	0.00	522.65	2,182.16
January 2052	0.00	442.02	1,999.51
February 2052	0.00	364.61	1,823.54
March 2052	0.00	290.31	1,654.05
April 2052	0.00	219.02	1,490.82
May 2052	0.00	150.62	1,333.66
June 2052	0.00	85.04	1,182.38
July 2052	0.00	22.17	1,036.78



<u>Distribution Date</u>	<u>Class AP</u>	<u>Classes PA and PZ (in the aggregate)</u>	<u>Classes PX and ZP (in the aggregate)</u>
August 2052 .....	\$ 0.00	\$ 0.00	\$ 896.69
September 2052 .....	0.00	0.00	761.94
October 2052 .....	0.00	0.00	632.34
November 2052 .....	0.00	0.00	507.74
December 2052 .....	0.00	0.00	387.97
January 2053 .....	0.00	0.00	272.87
February 2053 .....	0.00	0.00	162.30
March 2053 .....	0.00	0.00	56.11
April 2053 and thereafter .....	0.00	0.00	0.00



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***OFFERING CIRCULAR SUPPLEMENT***  
**November 22, 2024**

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