

\$1,314,651,500
Government National Mortgage Association

GINNIE MAE®

**Guaranteed REMIC Pass-Through Securities
and MX Securities
Ginnie Mae REMIC Trust 2023-043**

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 (1) Ginnie Mae Certificates and (2) certain previously issued 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-12 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 March 30, 2023.

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)
Security Group 1						
A	\$200,000,000	5.00%	SEQ/AD	FIX	38383XAA2	June 2048
Z	19,360,000	5.00	SEQ	FIX/Z	38383XAB0	February 2053
Security Group 2						
AB	15,000,000	5.50	SEQ/AD	FIX	38383XAC8	April 2048
AZ	1,449,992	5.50	SEQ	FIX/Z	38383XAD6	March 2053
CT	70,000,000	5.50	PT	FIX	38383XAE4	March 2053
FA	100,000,000	(5)	PT	FLT	38383XAF1	March 2053
FC(1)	18,224,996	(5)	PT	FLT	38383XAG9	March 2053
PT	50,000,000	5.50	PT	FIX	38383XAH7	March 2053
SA(1)	100,000,000	(5)	NTL(PT)	INV/IO	38383XAJ3	March 2053
SD(1)	18,224,996	(5)	NTL(PT)	INV/IO	38383XAK0	March 2053
SI(1)	18,224,996	(5)	NTL(PT)	INV/IO	38383XAL8	March 2053
Security Group 3						
FB	100,000,000	(5)	PT	FLT	38383XAM6	March 2053
K(1)	22,191,000	5.00	PAC I/AD	FIX	38383XAN4	November 2051
KQ(1)	5,491,000	5.00	PAC II/AD	FIX	38383XAP9	March 2053
KU(1)	2,562,334	5.00	SUP/AD	FIX	38383XAQ7	March 2053
KY(1)	2,843,000	5.00	PAC I/AD	FIX	38383XAR5	November 2052
KZ(1)	244,000	5.00	PAC I	FIX/Z	38383XAS3	March 2053
QZ(1)	1,000	5.00	PAC II	FIX/Z	38383XAT1	March 2053
SB	100,000,000	(5)	NTL(PT)	INV/IO	38383XAU8	March 2053
ZQ(1)	1,000	5.00	SUP	FIX/Z	38383XAV6	March 2053
Security Group 4						
NA	4,000,000	4.50	SC/PT	FIX	38383XAW4	February 2053
NB	4,000,000	5.50	SC/PT	FIX	38383XAX2	February 2053
NQ	4,479,000	5.00	SC/PAC	FIX	38383XAY0	February 2053
NU	2,125,986	5.00	SC/SUP	FIX	38383XAZ7	February 2053
Security Group 5						
P(1)	25,997,000	6.50	PAC/AD	FIX	38383XBA1	December 2042
PN(1)	95,291,000	6.50	PAC/AD	FIX	38383XBB9	January 2053
PZ	387,000	6.50	PAC/AD	FIX/Z	38383XBC7	March 2053
UZ	35,000,000	6.50	SUP	FIX/Z	38383XBD5	March 2053
Security Group 6						
AN(1)	3,505,000	5.00	PAC/AD	FIX	38383XBE3	August 2052
AP(1)	24,884,000	5.00	PAC/AD	FIX	38383XBF0	April 2051
FP	60,517,333	(5)	PAC/AD	FLT	38383XBG8	March 2053
MY	1,869,667	5.00	PAC/AD	FIX	38383XBH6	March 2053
SP(1)	60,517,333	(5)	NTL(PAC/AD)	INV/IO	38383XBJ2	March 2053
ZU	15,000,000	6.00	SUP	FIX/Z	38383XBK9	March 2053
Security Group 7						
LQ	3,343,000	5.00	SC/PAC	FIX	38383XBL7	February 2053
LU	2,831,893	5.00	SC/SUP	FIX	38383XBM5	February 2053
OP	686,099	0.00	SC/PT	PO	38383XBN3	February 2053
Security Group 8						
FM	83,400,000	(5)	SCH/AD	FLT	38383XBP8	March 2053
MZ	4,274,113	6.50	SUP	FIX/Z	38383XBQ6	March 2053
ST(1)	83,400,000	(5)	NTL(SCH/AD)	INV/IO	38383XBR4	March 2053
TI(1)	83,400,000	(5)	NTL(SCH/AD)	INV/IO	38383XBS2	March 2053
Security Group 9						
IL	138,461	6.50	NTL(SEQ/AD)	FIX/IO	38383XBT0	September 2047
LA	10,000,000	6.41	SEQ/AD	FIX	38383XBU7	September 2047
ZL	871,102	6.50	SEQ	FIX/Z	38383XBV5	March 2053
Security Group 10						
EA	20,000,000	6.00	SEQ/AD	FIX	38383XBW3	July 2046
EB	20,000,000	5.95	SEQ/AD	FIX	38383XBX1	July 2046
EI	166,666	6.00	NTL(SEQ/AD)	FIX/IO	38383XBY9	July 2046
EZ	4,899,536	6.00	SEQ	FIX/Z	38383XBZ6	March 2053
Security Group 11						
B	19,490,229	4.00	SC/PT	FIX	38383XCA0	December 2049

(Cover continued on next page)



Ramirez and Co., Inc.

The date of this Offering Circular Supplement is March 24, 2023.

Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 12						
ND	\$ 20,000,000	6.00%	SEQ/AD	FIX	38383XCB8	December 2044
NE	10,000,000	5.95	SEQ/AD	FIX	38383XCC6	December 2044
NI	83,333	6.00	NTL(SEQ/AD)	FIX/IO	38383XCD4	December 2044
NZ	4,926,770	6.00	SEQ	FIX/Z	38383XCE2	March 2053
Security Group 13						
IO(1)	41,823,614	(5)	NTL(SC/PT)	WAC/IO/DLY	38383XCF9	February 2053
PO(1)	10,504,450	0.00	SC/PT	PO	38383XCG7	October 2052
Security Group 14						
FJ(1)	50,000,000	(5)	PT	FLT	38383XCH5	March 2053
FL	15,000,000	(5)	PT	FLT	38383XCJ1	March 2053
FN	50,000,000	(5)	PT	FLT	38383XCK8	March 2053
S(1)	115,000,000	(5)	NTL(PT)	INV/IO	38383XCL6	March 2053
Security Group 15						
PF	50,000,000	(5)	PT	FLT	38383XCM4	March 2053
PS(1)	50,000,000	(5)	NTL(PT)	INV/IO	38383XCN2	March 2053
Security Group 16						
NF(1)	50,000,000	(5)	PT	FLT	38383XCP7	March 2053
NS(1)	50,000,000	(5)	NTL(PT)	INV/IO	38383XCQ5	March 2053
Residual						
RR	0	0.00	NPR	NPR	38383XCR3	March 2053

- (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”),
- the Base Offering Circular and
- in the case of the Group 4, 7, 11 and 13 securities, each disclosure document relating to the Underlying Certificates (the “Underlying Certificate Disclosure Documents”).

The Base Offering Circular and the Underlying Certificate Disclosure Documents are 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. In addition, you can obtain copies of any other document listed above by contacting BNY Mellon at the telephone number listed above.

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: March 30, 2023

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 April 2023.

Trust Assets:

<u>Trust Asset Group or Subgroup⁽²⁾</u>	<u>Trust Asset Type</u>	<u>Certificate Rate</u>	<u>Original Term To Maturity (in years)</u>
1	Ginnie Mae II	5.000%	30
2	Ginnie Mae II	6.000%	30
3	Ginnie Mae II	6.500%	30
4	Underlying Certificate	(1)	(1)
5	Ginnie Mae II	6.500%	30
6	Ginnie Mae II	6.000%	30
7	Underlying Certificates	(1)	(1)
8	Ginnie Mae II	6.500%	30
9	Ginnie Mae II	6.500%	30
10	Ginnie Mae II	6.000%	30
11	Underlying Certificates	(1)	(1)
12	Ginnie Mae II	6.000%	30
13A	Underlying Certificates	(1)	(1)
13B	Underlying Certificates	(1)	(1)
14	Ginnie Mae II	6.500%	30
15	Ginnie Mae II	6.500%	30
16	Ginnie Mae II	6.500%	30

⁽¹⁾ Certain information regarding the Underlying Certificates is set forth in Exhibit A to this Supplement.

⁽²⁾ The Group 13 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 2, 6, 8, 14, 15 and 16, 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 Group 2, 3, 5, 6, 8, 9, 10, 12, 14, 15 and 16 Trust Assets⁽¹⁾:

<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⁽²⁾</u>
Group 2 Trust Assets			
\$254,674,988	358	1	6.595%
Group 3 Trust Assets			
\$133,333,334	358	1	7.009%
Group 5 Trust Assets			
\$156,675,000	353	2	7.000%
Group 6 Trust Assets			
\$105,776,000	359	1	6.590%
Group 8 Trust Assets			
\$87,674,113	357	2	7.029%
Group 9 Trust Assets			
\$10,871,102	357	2	7.018%
Group 10 Trust Assets			
\$44,899,536	359	1	6.415%
Group 12 Trust Assets			
\$34,926,770 ⁽³⁾	359	1	6.579%
Group 14 Trust Assets			
\$115,000,000	357	2	7.029%
Group 15 Trust Assets			
\$50,000,000	357	1	7.059%
Group 16 Trust Assets			
\$50,000,000	357	2	7.086%

⁽¹⁾ As of March 1, 2023.

⁽²⁾ The Mortgage Loans underlying the Group 2, 3, 5, 6, 8, 9, 10, 12, 14, 15 and 16 Trust Assets may bear interest at rates ranging from 0.25% to 1.50% per annum above the related Certificate Rate.

⁽³⁾ More than 10% of the Mortgage Loans underlying the Group 12 Trust Assets may be higher balance Mortgage Loans. See *“Risk Factors” in this Supplement.*

The actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans underlying the Group 2, 3, 5, 6, 8, 9, 10, 12, 14, 15 and 16 Trust Assets will differ from the weighted averages shown above, perhaps significantly. See *“The Trust Assets — The Mortgage Loans” in this Supplement.*

Characteristics of the Mortgage Loans Underlying the Group 1 Trust Assets⁽¹⁾:

<u>Pool Number</u>	<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⁽²⁾</u>
Group 1 Trust Assets⁽³⁾				
004513	\$ 882.68	189	163	5.408%
MA8144	7,619,958.96	347	8	5.463
MA8194	41,979,543.16	351	7	5.481
MA8517	17,554,671.08	355	4	5.452
MA8518	28,262,599.82	356	3	5.537
MA8559	41,295,732.68	357	3	5.504
MA8637	82,646,612.16	359	1	5.593
	<u>\$219,360,000.54</u>			

⁽¹⁾ As of March 1, 2023.

⁽²⁾ The Mortgage Loans underlying the Group 1 Trust Assets may bear interest at rates ranging from 0.25% to 1.50% per annum above the related Certificate Rate.

⁽³⁾ More than 10% of the Mortgage Loans underlying the Group 1 Trust Assets may be higher balance Mortgage Loans. See “Risk Factors” in this Supplement.

The actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans underlying the Group 1 Trust Assets will differ from the weighted averages shown above, perhaps significantly. See “The Trust Assets — The Mortgage Loans” in this Supplement.

Characteristics of the Group 4, 7, 11 and 13 Trust Assets: See Exhibit A to this Supplement for certain information regarding the characteristics of the related Underlying Certificates.

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. Under certain circumstances, Class WA will be subject to mandatory exchange, with no exchange fee, for its related REMIC Securities. See “Description of the Securities — Modification and Exchange” in this Supplement.

Increased Minimum Denomination Classes: Each Class that constitutes a Principal Only, Interest Only or Weighted Average Coupon 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 “Compounded 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>Compounded SOFR for Minimum Interest Rate</u>
Security Group 2						
FA	Compounded SOFR + 0.90%	5.36740%	0.90%	6.50%	0	0.00%
FC	Compounded SOFR + 0.70%	5.16740%	0.70%	7.00%	0	0.00%
FD	Compounded SOFR + 0.90%	5.36740%	0.90%	7.00%	0	0.00%
SA	5.60% – Compounded SOFR	1.13260%	0.00%	5.60%	0	5.60%
SC	6.30% – Compounded SOFR	1.83260%	0.00%	6.30%	0	6.30%
SD	6.10% – Compounded SOFR	1.63260%	0.00%	6.10%	0	6.10%
SI	6.30% – Compounded SOFR	0.20000%	0.00%	0.20%	0	6.30%
Security Group 3						
FB	Compounded SOFR + 0.73%	5.28037%	0.73%	7.00%	0	0.00%
SB	6.27% – Compounded SOFR	1.71963%	0.00%	6.27%	0	6.27%
Security Group 6						
FP	Compounded SOFR + 0.90%	5.45806%	0.90%	6.50%	0	0.00%
SP	5.60% – Compounded SOFR	1.04194%	0.00%	5.60%	0	5.60%
Security Groups 2 and 6						
SK	5.60% – Compounded SOFR	1.09841%	0.00%	5.60%	0	5.60%
Security Group 8						
FM	Compounded SOFR + 0.87%	5.42806%	0.87%	6.50%	0	0.00%
SM	5.63% – Compounded SOFR	1.07194%	0.00%	5.63%	0	5.63%
ST	5.60% – Compounded SOFR	1.04194%	0.00%	5.60%	0	5.60%
TI	5.63% – Compounded SOFR	0.03000%	0.00%	0.03%	0	5.63%
Security Group 14						
FJ	Compounded SOFR + 0.90%	5.45806%	0.90%	6.50%	0	0.00%
FL	Compounded SOFR + 0.90%	5.45806%	0.90%	6.50%	0	0.00%
FN	Compounded SOFR + 0.90%	5.45806%	0.90%	6.50%	0	0.00%
S	5.60% – Compounded SOFR	1.04194%	0.00%	5.60%	0	5.60%
Security Groups 8 and 14						
SE	5.60% – Compounded SOFR	1.04194%	0.00%	5.60%	0	5.60%
Security Group 15						
PF	Compounded SOFR + 0.90%	5.36740%	0.90%	6.50%	0	0.00%
PS	5.60% – Compounded SOFR	1.13260%	0.00%	5.60%	0	5.60%
Security Group 16						
NF	Compounded SOFR + 0.90%	5.45806%	0.90%	6.50%	0	0.00%
NS	5.60% – Compounded SOFR	1.04194%	0.00%	5.60%	0	5.60%
Security Groups 14 and 16						
F	Compounded SOFR + 0.90%	5.45806%	0.90%	6.50%	0	0.00%
Security Groups 15 and 16						
SN	5.60% – Compounded SOFR	1.08727%	0.00%	5.60%	0	5.60%

(1) Compounded 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.

Each of Classes IO and WA is a Weighted Average Coupon Class. Class IO will accrue interest during each Accrual Period at a per annum interest rate equal to the weighted average of the interest rates of the Underlying Certificates included in the Subgroup 13B Trust Assets for that Accrual Period, weighted based on the outstanding notional balance of each Underlying Certificate included in the Subgroup 13B Trust Assets for the related Distribution Date (before giving effect to any payments on such Distribution Date). Class WA will accrue interest during each Accrual Period at an equivalent annualized rate derived by aggregating the accrued interest on its related REMIC Classes for such Accrual Period expressed as a

percentage of its outstanding principal balance for such Accrual Period, subject to certain limitations as set forth under “Description of the Securities — Modification and Exchange” in this Supplement. The approximate initial Interest Rate for each Weighted Average Coupon Class, which will be in effect for the first Accrual Period, is as follows:

<u>Class</u>	<u>Approximate Initial Interest Rate</u>
IO	3.18009%
WA	12.66161%

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 and the Z Accrual Amount will be allocated, sequentially, to A and Z, in that order, until retired

SECURITY GROUP 2

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

- The AZ Accrual Amount and 6.4592098852% of the Group 2 Principal Distribution Amount, sequentially, to AB and AZ, in that order, until retired
- 93.5407901148% of the Group 2 Principal Distribution Amount, concurrently, to CT, FA, FC and PT, pro rata, until retired

SECURITY GROUP 3

The Group 3 Principal Distribution Amount, the KZ Accrual Amount, the QZ Accrual Amount and the ZQ Accrual Amount will be allocated as follows:

- The KZ Accrual Amount, sequentially, to K, KY and KZ, in that order, until retired
- The QZ Accrual Amount, sequentially, to KQ and QZ, in that order, until retired
- The ZQ Accrual Amount, sequentially, to KU and ZQ, in that order, until retired
- 74.9999996250% of the Group 3 Principal Distribution Amount to FB, until retired
- 25.0000003750% of the Group 3 Principal Distribution Amount in the following order of priority:
 1. Sequentially, to K, KY and KZ, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 2. Sequentially, to KQ and QZ, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 3. Sequentially, to KU and ZQ, in that order, until retired
 4. Sequentially, to KQ and QZ, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired
 5. Sequentially, to K, KY and KZ, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 4

The Group 4 Principal Distribution Amount will be allocated, concurrently, as follows:

- 54.7758142322%, concurrently, to NA and NB, pro rata, until retired
- 45.2241857678% in the following order of priority:
 1. To NQ, until reduced to its Scheduled Principal Balance for that Distribution Date
 2. To NU, until retired
 3. To NQ, without regard to its Scheduled Principal Balance, until retired

SECURITY GROUP 5

The Group 5 Principal Distribution Amount, the PZ Accrual Amount and the UZ Accrual Amount will be allocated as follows:

- The PZ Accrual Amount, sequentially, to P, PN and PZ, in that order, until retired
- The Group 5 Principal Distribution Amount and the UZ Accrual Amount in the following order of priority:
 1. Sequentially, to P, PN 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 P, PN and PZ, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 6

The Group 6 Principal Distribution Amount and the ZU Accrual Amount will be allocated in the following order of priority:

1. To AN, AP, FP and MY, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, concurrently, as follows:
 - a. 33.3333337005%, sequentially, to AP, AN and MY, in that order, while outstanding
 - b. 66.6666662995% to FP, while outstanding
2. To ZU, until retired
3. To AN, AP, FP and MY, in the same manner and order of priority as described in step 1. above, but without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 7

The Group 7 Principal Distribution Amount will be allocated, concurrently, as follows:

- 9.9999970850% to OP, until retired
- 90.0000029150% in the following order of priority:
 1. To LQ, until reduced to its Scheduled Principal Balance for that Distribution Date

2. To LU, until retired
3. To LQ, without regard to its Scheduled Principal Balance, until retired

SECURITY GROUP 8

The Group 8 Principal Distribution Amount and the MZ Accrual Amount will be allocated in the following order of priority:

1. To FM, until reduced to its Scheduled Principal Balance for that Distribution Date
2. To MZ, until retired
3. To FM, without regard to its Scheduled Principal Balance, until retired

SECURITY GROUP 9

The Group 9 Principal Distribution Amount and the ZL Accrual Amount will be allocated, sequentially, to LA and ZL, in that order, until retired

SECURITY GROUP 10

The Group 10 Principal Distribution Amount and the EZ Accrual Amount will be allocated in the following order of priority:

1. Concurrently, to EA and EB, pro rata, until retired
2. To EZ, until retired

SECURITY GROUP 11

The Group 11 Principal Distribution Amount will be allocated to B, until retired

SECURITY GROUP 12

The Group 12 Principal Distribution Amount and the NZ Accrual Amount will be allocated in the following order of priority:

1. Concurrently, to ND and NE, pro rata, until retired
2. To NZ, until retired

SECURITY GROUP 13

The Group 13 Principal Distribution Amount will be allocated to PO, until retired

SECURITY GROUP 14

The Group 14 Principal Distribution Amount will be allocated, concurrently, to FJ, FL and FN, pro rata, until retired

SECURITY GROUP 15

The Group 15 Principal Distribution Amount will be allocated to PF, until retired

SECURITY GROUP 16

The Group 16 Principal Distribution Amount will be allocated to NF, 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>
PAC Classes	
4 NQ	248% PSA through 308% PSA
5 P, PN and PZ (in the aggregate)	160% PSA through 400% PSA
6 AN, AP, FP and MY (in the aggregate)	140% PSA through 265% PSA
7 LQ*	220% PSA through 300% PSA
PAC I Classes	
3 K, KY and KZ (in the aggregate)	160% PSA through 320% PSA
PAC II Classes	
3 KQ and QZ (in the aggregate)	260% PSA through 320% PSA
Scheduled Class	
8 FM	**

* The initial Effective Rate is 220% PSA through 299% PSA.

** Not structured using any consistent rate of 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 or notional balance of the related Trust Asset Group or Subgroup indicated:

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
Security Group 2		
SA	\$100,000,000	100% of FA (PT Class)
SC	18,224,996	100% of FC (PT Class)
SD	18,224,996	100% of FC (PT Class)
SI	18,224,996	100% of FC (PT Class)
Security Group 3		
CI	\$ 3,414,000	15.3846153846% of K (PAC I/AD Class)
KI	3,851,384	15.3846153846% of K and KY (in the aggregate) (PAC I/AD Classes)
SB	100,000,000	100% of FB (PT Class)

Class	Original Class Notional Balance	Represents Approximately
Security Group 5		
DI	\$ 9,998,846	38.4615384615% of P (PAC/AD Class)
	13,307,692	13.9653191883% of PN (PAC/AD Class)
	<u>\$ 23,306,538</u>	
JL	\$ 36,650,384	38.4615384615% of PN (PAC/AD Class)
PI	46,649,230	38.4615384615% of P and PN (in the aggregate) (PAC/AD Classes)
Security Group 6		
AI	\$ 2,073,666	8.3333333333% of AP (PAC/AD Class)
MI	2,365,750	8.3333333333% of AN and AP (in the aggregate) (PAC/AD Classes)
SP	60,517,333	100% of FP (PAC/AD Class)
Security Groups 2 and 6		
SK	\$100,000,000	100% of FA (PT Class)
	60,517,333	100% of FP (PAC/AD Class)
	<u>\$160,517,333</u>	
Security Group 8		
SM	\$ 83,400,000	100% of FM (SCH/AD Class)
ST	83,400,000	100% of FM (SCH/AD Class)
TI	83,400,000	100% of FM (SCH/AD Class)
Security Group 9		
IL	\$ 138,461	1.3846153846% of LA (SEQ/AD Class)
Security Group 10		
EI	\$ 166,666	0.8333333333% of EB (SEQ/AD Class)
Security Group 12		
NI	\$ 83,333	0.8333333333% of NE (SEQ/AD Class)
Security Group 13		
IO	\$ 41,823,614	100% of the Subgroup 13B Trust Assets
Security Group 14		
S	\$115,000,000	100% of the Group 14 Trust Assets
Security Groups 8 and 14		
SE	\$115,000,000	100% of the Group 14 Trust Assets
	83,400,000	100% of FM (SCH/AD Class)
	<u>\$198,400,000</u>	
Security Group 15		
PS	\$ 50,000,000	100% of PF (PT Class)
Security Group 16		
NS	\$ 50,000,000	100% of NF (PT Class)
Security Groups 15 and 16		
SN	\$100,000,000	100% of NF and PF (in the aggregate) (PT Classes)
Tax Status: Double REMIC Series. See "Certain United States Federal Income Tax Consequences" in this Supplement and in the Base Offering Circular.		
Regular and Residual Classes: Class RR is a Residual Class and represents the Residual Interest of the Issuing REMIC and the Pooling 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 (principal only securities, for example) 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 Compounded SOFR will affect the yields on the floating rate, inverse floating rate and, under certain circumstances, weighted average coupon securities. If Compounded SOFR performs differently from what you expect, the yield on the floating rate, inverse floating rate and, under certain circumstances, weighted average coupon securities may be lower than you expect. Lower levels of Compounded SOFR will generally reduce the yield on the floating rate and, under certain circumstances, weighted average coupon securities;

higher levels of Compounded SOFR will generally reduce the yield on the inverse floating rate and, under certain circumstances, weighted average coupon securities. You should bear in mind that the timing of changes in the level of Compounded SOFR may affect your yield: generally, the earlier a change, the greater the effect on your yield. It is doubtful that Compounded SOFR 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 and scheduled classes, the related support classes will not receive any principal distribution on that date (other than from any applicable accrual amount). If prepayments result in principal distributions on any distribution date greater than the amount needed to produce scheduled payments on the PAC and scheduled classes for that distribution date, this excess will be distributed to the related support classes.

The rate of payments on the underlying certificates will directly affect the rate of payments on the group 4, 7, 11 and 13 securities. The underlying certificates will be sensitive in varying degrees to:

- the rate of payments of principal (including prepayments) of the related mortgage loans, and

- the priorities for the distribution of principal among the classes of the related underlying series.

As described in the related underlying certificate disclosure documents, the underlying certificates included in trust asset groups 4 and 7 are classes that provide support to other classes, and they are entitled to receive principal distributions (other than from any applicable accrual amount) only if scheduled payments have been made on other specified classes of the related underlying series (or if specified classes have been retired). Accordingly, these underlying certificates may receive no principal distributions for extended periods of time or may receive principal payments that vary widely from period to period.

One of the underlying certificates included in trust asset subgroup 13B has been issued with a class notional balance that is calculated on the basis of the class principal balance of support classes of the related underlying series. Accordingly, the yield on such underlying certificate may be reduced, perhaps significantly, if principal payments on the related support classes occur at a rapid rate.

In addition, the principal entitlements of and the reductions in notional balances of certain of the underlying certificates included in trust asset group 7 and subgroup 13B on any payment date are calculated, directly or indirectly, on the basis of schedules; no assurance can be given that the underlying certificates will adhere to their schedules. Further, prepayments on the related mortgage loans may have occurred at rates faster or slower than those initially assumed.

The trust assets underlying certain of the underlying certificates included in trust asset group 13 are also previously issued certificates that represent beneficial ownership interests in separate trusts. The rate of payments on the previously issued certificates backing these underlying certificates will directly affect the timing and rate of payments on the group 13 securities. You should read the related underlying certificate disclosure documents, including the risk factors

contained therein, to understand the payments on and related risks of the previously issued certificates backing these underlying certificates.

This supplement contains no information as to whether the underlying certificates or the related classes with which the notional underlying certificates reduce have adhered to any applicable principal balance schedules, whether any related supporting classes remain outstanding or whether the underlying certificates otherwise have performed as originally anticipated. Additional information as to the underlying certificates may be obtained by performing an analysis of current principal factors of the underlying certificates in light of applicable information contained in the related underlying certificate disclosure documents.

Up to 10% of the mortgage loans underlying the group 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15 and 16 trust assets and up to 100% of the mortgage loans underlying the group 1, 12 and 13 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, inverse floating rate and weighted average coupon 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, inverse floating rate and weighted average coupon securities may fluctuate more than debt securities linked to less volatile indices.

SOFR is a relatively new market index, and the floating rate, inverse floating rate and weighted average coupon 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. Investment in the floating rate, inverse floating rate and weighted average coupon securities carries additional pricing volatility, illiquidity and market risk, as discussed in more detail under “Description of the Securities — Interest Rate Indices — Determination of SOFR — General” in the base offering circular.

The interest rates of the floating rate, inverse floating rate and weighted average coupon securities will be based on Compounded SOFR. Ginnie Mae may, in its sole discretion and without the consent of security holders or any other party, convert the interest rates of the floating rate, inverse floating rate and weighted average coupon securities from Compounded SOFR to term SOFR. In connection with that conversion, Ginnie Mae may, in its sole discretion and without

the consent of security holders or any other party, change the calculation methodology or spread, add or subtract a rate adjustment and make other conforming changes with respect to the floating rate, inverse floating rate and weighted average coupon securities, as described under “Description of the Securities — Interest Rate Indices — Replacement Rate Conforming Changes” in the base offering circular. There can be no assurance that the interest rates of the floating rate, inverse floating rate and weighted average coupon securities will ever be based on term SOFR or, if based on term SOFR in the future, that the resulting interest rates will yield the same or similar economic results over the lives of the affected securities relative to the results that would have occurred had the interest rates remained based on Compounded SOFR or that the market value will not decrease due to the move from Compounded SOFR to term SOFR.

All aspects of the conversion will be at the sole discretion of Ginnie Mae, which could lead to volatility in the interest rates of or adversely affect the return on the floating rate, inverse floating rate and weighted average coupon securities, the trading market for such securities and the value of such securities.

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

Interest on the floating rate, inverse floating rate and weighted average coupon securities will be determined using a replacement rate if SOFR is no longer available, which could adversely affect the value of your investment in the floating rate, inverse floating rate and weighted average coupon securities. Because SOFR is published by the Federal Reserve Bank of New York based on data received from other sources, neither Ginnie Mae nor the trustee has any control over its

determination, calculation or publication. 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 SOFR at any time without notice. There can be no assurance that SOFR will not be discontinued or fundamentally altered in a manner that is materially adverse to the interests of investors in the floating rate, inverse floating rate and weighted average coupon securities.

If SOFR is no longer published or cannot be used, the amount of interest payable on the floating rate, inverse floating rate and weighted average coupon securities will be determined using a replacement rate, as described under “Description of the Securities — Interest Rate Indices — Determination of SOFR” 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” in the base offering circular. This could reduce the amount of interest payable on the floating rate, inverse floating rate and weighted average coupon securities, which could adversely affect the return on, value of, and market for, the floating rate, inverse floating rate and weighted average coupon securities. Furthermore, there can be no assurance that the characteristics of any replacement rate will be similar to SOFR or that any replacement rate will produce the economic equivalent of SOFR.

The securities may not be a suitable investment for you. The securities, especially the group 4, 7, 11 and 13 securities and, in particular, the support, interest only, principal only, weighted average coupon, 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, regardless of whether the assets consist of Trust MBS or the Underlying Certificates, will evidence, directly or indirectly, Ginnie Mae Certificates.

The Trust MBS (Groups 1, 2, 3, 5, 6, 8, 9, 10, 12, 14, 15 and 16)

The Trust MBS 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 Underlying Certificates (Groups 4, 7, 11 and 13)

The Group 4, 7, 11 and 13 Trust Assets are Underlying Certificates that represent beneficial ownership interests in one or more separate trusts, the assets of which evidence direct or indirect beneficial ownership interests in certain Ginnie Mae Certificates. Each Underlying Certificate constitutes all or a portion of a class of a separate Series of certificates described in the related Underlying Certificate Disclosure Document. Each Underlying Certificate Disclosure Document may be obtained from the Information Agent as described under “Available Information” in this Supplement or on ginniemae.gov. Investors are cautioned that material changes in facts and circumstances may have occurred since the date of each Underlying Certificate Disclosure Document, including changes in prepayment rates, prevailing interest rates and other economic factors, which may limit the usefulness of, and be directly contrary to the assumptions used in preparing the information included in, the offering document. See “*Underlying Certificates*” in the *Base Offering Circular*.

Each Underlying Certificate provides for monthly distributions and is further described in the table contained in Exhibit A to this Supplement.

The Mortgage Loans

The Mortgage Loans underlying the Group 2, 3, 5, 6, 8, 9, 10, 12, 14, 15 and 16 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 Group 2, 3, 5, 6, 8, 9, 10, 12, 14, 15 and 16 Trust Assets” and the general characteristics described in the Base Offering Circular. The Mortgage Loans underlying the Group 1 Trust Assets are expected to have, on a weighted average basis, the characteristics set forth in the Terms Sheet under “Characteristics of the Mortgage Loans Underlying the

Group 1 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 (i) \$100,000 in initial principal or notional balance or (ii) the initial notional balance if such balance is less than \$100,000.

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 and Delay 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 initially on Compounded SOFR with a Corresponding Tenor of 30 days. The Trustee or its agent will determine Compounded SOFR as described under “Description of the Securities — Interest Rate Indices — Determination of SOFR” in the Base Offering Circular.

At any time, Ginnie Mae may, in its sole discretion and without the consent of security holders or any other party, designate Term SOFR and related positive or negative adjustments, spreads or methodology changes as a Replacement Rate for the Floating Rate and Inverse Floating Rate Classes and instruct the Trustee in writing to replace Compounded SOFR with such Replacement Rate for all purposes relating to such Classes in respect of such determination on such date and all determinations on subsequent dates. Ginnie Mae will not do so unless Ginnie Mae and the Trustee receive a Replacement Rate Tax Opinion. In connection with the implementation of Term SOFR as a Replacement Rate for SOFR Classes, Ginnie Mae will have the right to make other Conforming Changes from time to time without the consent of security holders or any other party, as described under “Description of the Securities — Interest Rate Indices” and “— Interest Rate Indices — Determination of SOFR — Conversion of Simple SOFR and Compounded SOFR Classes to Term SOFR” in the Base Offering Circular.

If 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 — Determination of SOFR” in the Base Offering Circular.

Weighted Average Coupon Classes

The Weighted Average Coupon Classes will bear interest as shown under “Terms Sheet — Interest Rates” in this Supplement.

The Trustee’s determination of Compounded SOFR and its calculation of the Interest Rates will be final except in the case of clear error. Investors can obtain Compounded SOFR levels and Interest Rates for the current and preceding Accrual Periods on ginniemae.gov or by calling the Information Agent at (800) 234-GNMA.

Accrual Classes

Each of Classes AZ, EZ, KZ, MZ, NZ, PZ, QZ, UZ, Z, ZL, ZQ 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 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 REMICs, 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 REMICs 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.

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. On any Distribution Date upon the Trustee's determination that the REMIC status of any 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 REMICs 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 3, 4, 6, 7, 8, 9 and 10, 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 3, 4, 6, 7, 8, 9 and 10, 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.*

In the case of Combination 13, Class WA is a Weighted Average Coupon Class that will accrue interest as described under "Terms Sheet — Interest Rates" in this Supplement. In the event that either (1) the Interest Rate of such MX Class will equal or exceed 1,200% per annum for any Accrual Period or (2) the Class Principal Balance of such MX Class will be reduced to zero on any Distribution Date, the Trustee will, prior to the close of business on the last Business Day of the calendar month immediately preceding the related Distribution Date in the first case, and prior to the related Distribution Date on which the Class Principal Balance of such MX Class would be reduced to zero in the second case, effect a mandatory exchange of such MX Class for its related REMIC Securities. Thereafter, no further exchanges of such REMIC Securities will be permitted for the related Combination.

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 and

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 2023-043. 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 a mandatory exchange described above; and provided, further, that no fee will be payable in respect of an interest only security unless all securities involved in the exchange are interest only securities. If the notional balance of the interest only securities surrendered exceeds that of the interest only securities received, the fee will be based on the latter. 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.

Investors in the Group 4, 7, 11 and 13 Securities are urged to review the discussion under “Risk Factors — The rate of payments on the underlying certificates will directly affect the rate of payments on the group 4, 7, 11 and 13 securities” in this Supplement.

Accretion Directed Classes

Classes A, AB, AN, AP, EA, EB, FM, FP, K, KQ, KU, KY, LA, MY, ND, NE, P, PN and PZ 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 Classes EI, IL, NI, SP, ST and TI is a Notional Class whose Class Notional Balance is determined by reference to the Class Principal Balance of the related Accretion Directed Class shown under “Terms Sheet — Notional Classes” in this Supplement.

Each of the Accretion Directed Classes 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. Although the Accretion Directed Classes 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 any applicable Effective Range.

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>
PAC Classes	
4 NQ	248% PSA through 308% PSA
5 P, PN and PZ (in the aggregate)	160% PSA through 400% PSA
6 AN, AP, FP and MY (in the aggregate)	140% PSA through 265% PSA
7 LQ	220% PSA through 299% PSA
PAC I Classes	
3 K, KY and KZ (in the aggregate)	160% PSA through 320% PSA
PAC II Classes	
3 KQ and QZ (in the aggregate)	260% PSA through 320% PSA
Scheduled Class	
8 FM	*

* No Effective Range.

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

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

If all of the Classes supporting a given Class are 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 or Scheduled Class not to receive Scheduled Payments, even if prepayment rates remain within the initial Effective Range, if any, 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 or Classes 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 characteristics of the Underlying Certificates, the priorities of distributions on the Underlying Certificates and the following assumptions (the “Modeling Assumptions”), among others:

1. The Mortgage Loans underlying the Group 2, 3, 5, 6, 8, 9, 10, 12, 14, 15 and 16 Trust Assets have the assumed characteristics shown under “Assumed Characteristics of the Mortgage Loans Underlying the Group 2, 3, 5, 6, 8, 9, 10, 12, 14, 15 and 16 Trust Assets” in the Terms Sheet and the Mortgage Loans underlying the Group 1 Trust Assets have the characteristics shown under “Characteristics of the Mortgage Loans Underlying the Group 1 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 underlying a Group 2, 3, 5, 6, 8, 9, 10, 12, 14, 15 or 16 Trust Asset 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 April 2023.

4. A termination of the Trust, any Trust REMIC or any Underlying Trust does not occur.

5. The Closing Date for the Securities is March 30, 2023.

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. Distributions on the Underlying Certificates are made as described in the related Underlying Certificate Disclosure Documents.

8. Each Class is held from the Closing Date and is not exchanged in whole or in part, including that there is no mandatory exchange of any MX Class that is a Weighted Average Coupon Class.

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

Security Group 1 PSA Prepayment Assumption Rates

Distribution Date	Class A					Class Z				
	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100
March 2024	98	96	94	92	90	105	105	105	105	105
March 2025	96	89	83	77	70	110	110	110	110	110
March 2026	94	81	70	59	50	116	116	116	116	116
March 2027	91	74	58	45	34	122	122	122	122	122
March 2028	89	67	48	33	22	128	128	128	128	128
March 2029	86	60	39	24	12	135	135	135	135	135
March 2030	83	53	31	16	5	142	142	142	142	142
March 2031	81	47	24	9	0	149	149	149	149	145
March 2032	77	41	18	4	0	157	157	157	157	107
March 2033	74	36	13	0	0	165	165	165	156	79
March 2034	71	30	8	0	0	173	173	173	124	59
March 2035	67	25	3	0	0	182	182	182	99	43
March 2036	63	20	0	0	0	191	191	182	78	32
March 2037	59	16	0	0	0	201	201	154	62	23
March 2038	55	11	0	0	0	211	211	130	49	17
March 2039	51	7	0	0	0	222	222	109	38	12
March 2040	46	3	0	0	0	234	234	91	30	9
March 2041	41	0	0	0	0	246	233	76	23	6
March 2042	36	0	0	0	0	258	205	63	18	5
March 2043	30	0	0	0	0	271	179	51	13	3
March 2044	24	0	0	0	0	285	155	41	10	2
March 2045	18	0	0	0	0	300	132	33	8	2
March 2046	11	0	0	0	0	315	111	26	6	1
March 2047	4	0	0	0	0	331	91	20	4	1
March 2048	0	0	0	0	0	319	72	15	3	0
March 2049	0	0	0	0	0	257	55	11	2	0
March 2050	0	0	0	0	0	192	38	7	1	0
March 2051	0	0	0	0	0	123	23	4	1	0
March 2052	0	0	0	0	0	51	9	1	0	0
March 2053	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	15.0	8.1	5.4	4.1	3.3	27.3	22.9	17.9	14.0	11.2

Security Group 2 PSA Prepayment Assumption Rates

Distribution Date	Class AB					Class AZ					Classes CT, FA, FC, FD, PT, SA, SC, SD and SI				
	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
March 2024	98	97	93	91	88	106	106	106	106	106	99	97	94	92	90
March 2025	97	91	80	71	64	112	112	112	112	112	98	92	82	75	68
March 2026	95	83	62	48	36	118	118	118	118	118	97	86	67	55	44
March 2027	93	75	47	31	18	125	125	125	125	125	96	80	54	39	27
March 2028	91	68	35	18	6	132	132	132	132	132	95	74	44	28	17
March 2029	89	61	25	9	0	139	139	139	139	124	93	68	35	20	11
March 2030	87	55	17	2	0	147	147	147	147	78	92	63	28	15	7
March 2031	84	49	10	0	0	155	155	155	118	49	90	58	23	10	4
March 2032	81	43	4	0	0	164	164	164	84	31	89	53	18	7	3
March 2033	78	37	0	0	0	173	173	167	60	19	87	49	15	5	2
March 2034	75	32	0	0	0	183	183	133	43	12	85	45	12	4	1
March 2035	72	26	0	0	0	193	193	106	30	7	83	41	9	3	1
March 2036	69	21	0	0	0	204	204	84	22	5	80	37	7	2	0
March 2037	65	16	0	0	0	216	216	67	15	3	78	34	6	1	0
March 2038	61	12	0	0	0	228	228	53	11	2	75	31	5	1	0
March 2039	56	7	0	0	0	241	241	42	7	1	73	28	4	1	0
March 2040	52	3	0	0	0	254	254	33	5	1	70	25	3	0	0
March 2041	47	0	0	0	0	269	252	25	4	0	66	22	2	0	0
March 2042	41	0	0	0	0	284	223	20	2	0	63	20	2	0	0
March 2043	36	0	0	0	0	300	196	15	2	0	59	17	1	0	0
March 2044	29	0	0	0	0	317	170	11	1	0	55	15	1	0	0
March 2045	23	0	0	0	0	334	146	9	1	0	50	13	1	0	0
March 2046	16	0	0	0	0	353	124	6	0	0	46	11	1	0	0
March 2047	8	0	0	0	0	373	102	5	0	0	40	9	0	0	0
March 2048	0	0	0	0	0	394	82	3	0	0	35	7	0	0	0
March 2049	0	0	0	0	0	328	63	2	0	0	29	6	0	0	0
March 2050	0	0	0	0	0	255	45	1	0	0	22	4	0	0	0
March 2051	0	0	0	0	0	176	28	1	0	0	16	3	0	0	0
March 2052	0	0	0	0	0	91	13	0	0	0	8	1	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	16.0	8.3	4.3	3.2	2.6	27.7	23.0	14.1	10.3	7.9	20.2	11.4	5.7	4.1	3.3

**Security Group 3
PSA Prepayment Assumption Rates**

Distribution Date	Classes CD, CE, CG, CH, CI, CJ, CK, CL, CM, CN, CP and K					Classes FB, KT and SB					Classes KA, KB, KC, KD, KE, KG, KH, KI, KJ, KL, KM and KN				
	0%	160%	290%	320%	600%	0%	160%	290%	320%	600%	0%	160%	290%	320%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	99	95	95	95	95	99	97	95	94	90	99	95	95	95	95
March 2025	97	84	84	84	84	98	90	83	81	68	98	86	86	86	86
March 2026	96	70	70	70	52	97	80	68	65	44	96	73	73	73	57
March 2027	94	57	57	57	27	96	72	56	52	28	95	62	62	62	36
March 2028	92	45	45	45	12	95	64	45	42	17	93	51	51	51	22
March 2029	90	35	35	35	2	94	57	37	33	11	91	42	42	42	13
March 2030	88	25	25	25	0	92	50	30	26	7	90	34	34	34	8
March 2031	86	17	17	17	0	91	45	24	21	4	88	26	26	26	4
March 2032	84	10	10	10	0	89	40	20	17	3	85	20	20	20	2
March 2033	81	5	5	5	0	88	35	16	13	2	83	16	16	16	1
March 2034	78	1	1	1	0	86	31	13	10	1	80	12	12	12	0
March 2035	75	0	0	0	0	84	27	10	8	1	78	9	9	9	0
March 2036	71	0	0	0	0	82	24	8	6	0	75	7	7	7	0
March 2037	68	0	0	0	0	79	21	7	5	0	71	5	5	5	0
March 2038	64	0	0	0	0	77	18	5	4	0	68	3	3	3	0
March 2039	60	0	0	0	0	74	16	4	3	0	64	2	2	2	0
March 2040	55	0	0	0	0	71	14	3	2	0	60	1	1	1	0
March 2041	50	0	0	0	0	68	12	3	2	0	56	0	0	0	0
March 2042	45	0	0	0	0	64	10	2	1	0	51	0	0	0	0
March 2043	39	0	0	0	0	60	8	2	1	0	46	0	0	0	0
March 2044	32	0	0	0	0	56	7	1	1	0	40	0	0	0	0
March 2045	26	0	0	0	0	52	6	1	1	0	34	0	0	0	0
March 2046	18	0	0	0	0	47	5	1	0	0	27	0	0	0	0
March 2047	10	0	0	0	0	42	4	0	0	0	20	0	0	0	0
March 2048	1	0	0	0	0	36	3	0	0	0	13	0	0	0	0
March 2049	0	0	0	0	0	30	2	0	0	0	4	0	0	0	0
March 2050	0	0	0	0	0	23	2	0	0	0	0	0	0	0	0
March 2051	0	0	0	0	0	16	1	0	0	0	0	0	0	0	0
March 2052	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	16.5	5.0	5.0	5.0	3.2	20.5	8.9	5.8	5.4	3.3	17.6	6.0	6.0	6.0	3.7

PSA Prepayment Assumption Rates

Distribution Date	Class KQ					Class KU					Class KY				
	0%	160%	290%	320%	600%	0%	160%	290%	320%	600%	0%	160%	290%	320%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	100	100	91	91	91	100	100	94	88	33	100	100	100	100	100
March 2025	100	100	69	69	16	100	100	80	61	0	100	100	100	100	100
March 2026	100	100	43	43	0	100	100	65	31	0	100	100	100	100	100
March 2027	100	100	24	24	0	100	100	55	12	0	100	100	100	100	100
March 2028	100	100	11	11	0	100	100	50	3	0	100	100	100	100	100
March 2029	100	100	3	3	0	100	100	48	0	0	100	100	100	100	100
March 2030	100	100	0	0	0	100	100	46	0	0	100	100	100	100	69
March 2031	100	98	0	0	0	100	100	44	0	0	100	100	100	100	38
March 2032	100	94	0	0	0	100	100	40	0	0	100	100	100	100	18
March 2033	100	87	0	0	0	100	100	36	0	0	100	100	100	100	6
March 2034	100	79	0	0	0	100	100	32	0	0	100	100	100	100	0
March 2035	100	69	0	0	0	100	100	28	0	0	100	79	79	79	0
March 2036	100	60	0	0	0	100	100	24	0	0	100	58	58	58	0
March 2037	100	50	0	0	0	100	100	21	0	0	100	41	41	41	0
March 2038	100	40	0	0	0	100	100	18	0	0	100	27	27	27	0
March 2039	100	31	0	0	0	100	100	15	0	0	100	16	16	16	0
March 2040	100	22	0	0	0	100	100	12	0	0	100	7	7	7	0
March 2041	100	14	0	0	0	100	100	10	0	0	100	0	0	0	0
March 2042	100	6	0	0	0	100	100	8	0	0	100	0	0	0	0
March 2043	100	0	0	0	0	100	97	7	0	0	100	0	0	0	0
March 2044	100	0	0	0	0	100	82	5	0	0	100	0	0	0	0
March 2045	100	0	0	0	0	100	69	4	0	0	100	0	0	0	0
March 2046	100	0	0	0	0	100	57	3	0	0	100	0	0	0	0
March 2047	100	0	0	0	0	100	46	2	0	0	100	0	0	0	0
March 2048	100	0	0	0	0	100	36	2	0	0	100	0	0	0	0
March 2049	100	0	0	0	0	100	27	1	0	0	38	0	0	0	0
March 2050	95	0	0	0	0	100	18	1	0	0	0	0	0	0	0
March 2051	51	0	0	0	0	100	11	0	0	0	0	0	0	0	0
March 2052	4	0	0	0	0	100	5	0	0	0	0	0	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.0	14.0	2.9	2.9	1.6	29.5	24.0	8.1	2.5	0.8	25.8	13.8	13.8	13.8	7.8

**Security Group 3
PSA Prepayment Assumption Rates**

Distribution Date	Class KZ					Class QZ					Class ZQ				
	0%	160%	290%	320%	600%	0%	160%	290%	320%	600%	0%	160%	290%	320%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
March 2025	110	110	110	110	110	110	110	110	110	110	110	110	110	110	0
March 2026	116	116	116	116	116	116	116	116	116	0	116	116	116	116	0
March 2027	122	122	122	122	122	122	122	122	122	0	122	122	122	122	0
March 2028	128	128	128	128	128	128	128	128	128	0	128	128	128	128	0
March 2029	135	135	135	135	135	135	135	135	135	0	135	135	135	135	92
March 2030	142	142	142	142	142	142	142	128	128	0	142	142	142	142	92
March 2031	149	149	149	149	149	149	149	0	0	0	149	149	149	149	74
March 2032	157	157	157	157	157	157	157	0	0	0	157	157	157	157	74
March 2033	165	165	165	165	165	165	165	0	0	0	165	165	165	165	74
March 2034	173	173	173	173	145	173	173	0	0	0	173	173	173	173	74
March 2035	182	182	182	182	90	182	182	0	0	0	182	182	182	182	74
March 2036	191	191	191	191	56	191	191	0	0	0	191	191	191	191	74
March 2037	201	201	201	201	35	201	201	0	0	0	201	201	201	201	74
March 2038	211	211	211	211	21	211	211	0	0	0	211	211	211	211	74
March 2039	222	222	222	222	13	222	222	0	0	0	222	222	222	222	74
March 2040	234	234	234	234	8	234	234	0	0	0	234	234	234	234	74
March 2041	246	243	243	243	5	246	246	0	0	0	246	246	246	246	74
March 2042	258	185	185	185	3	258	258	0	0	0	258	258	258	258	74
March 2043	271	140	140	140	2	271	0	0	0	0	271	271	271	271	74
March 2044	285	105	105	105	1	285	0	0	0	0	285	285	285	285	74
March 2045	300	77	77	77	1	300	0	0	0	0	300	300	300	300	74
March 2046	315	56	56	56	0	315	0	0	0	0	315	315	315	315	74
March 2047	331	40	40	40	0	331	0	0	0	0	331	331	331	331	74
March 2048	348	28	28	28	0	348	0	0	0	0	348	348	348	348	74
March 2049	366	18	18	18	0	366	0	0	0	0	366	366	366	366	74
March 2050	11	11	11	11	0	385	0	0	0	0	385	385	385	385	74
March 2051	6	6	6	6	0	404	0	0	0	0	404	404	404	404	74
March 2052	2	2	2	2	0	425	0	0	0	0	425	425	425	425	74
March 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	26.7	21.2	21.2	21.2	12.8	29.1	19.8	7.0	7.0	2.1	30.0	29.8	29.6	19.2	1.3

**Security Group 4
PSA Prepayment Assumption Rates**

Distribution Date	Classes NA and NB					Class NQ					Class NU				
	0%	248%	278%	308%	600%	0%	248%	278%	308%	600%	0%	248%	278%	308%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	100	93	91	89	68	100	90	90	90	90	100	100	93	87	23
March 2025	100	78	71	65	4	100	68	68	68	6	100	100	80	59	0
March 2026	100	61	50	38	0	100	42	42	42	0	100	100	65	30	0
March 2027	100	49	34	20	0	100	24	24	24	0	100	100	55	12	0
March 2028	100	40	24	9	0	100	12	12	12	0	100	100	50	3	0
March 2029	100	35	18	3	0	100	4	4	4	0	100	100	48	0	0
March 2030	100	32	16	1	0	100	1	1	1	0	100	99	47	0	0
March 2031	100	31	15	1	0	100	1	1	1	0	100	94	44	0	0
March 2032	100	29	14	1	0	100	1	1	1	0	100	88	41	0	0
March 2033	100	27	12	1	0	100	1	1	1	0	100	81	37	0	0
March 2034	100	24	11	0	0	100	1	1	1	0	100	73	33	0	0
March 2035	100	21	10	0	0	100	1	1	1	0	100	65	29	0	0
March 2036	100	19	9	0	0	100	1	1	1	0	100	58	25	0	0
March 2037	100	17	7	0	0	100	0	0	0	0	100	50	22	0	0
March 2038	100	14	6	0	0	100	0	0	0	0	100	44	19	0	0
March 2039	100	12	5	0	0	100	0	0	0	0	100	37	16	0	0
March 2040	100	10	4	0	0	100	0	0	0	0	100	32	13	0	0
March 2041	100	9	4	0	0	100	0	0	0	0	100	27	11	0	0
March 2042	100	7	3	0	0	100	0	0	0	0	100	22	9	0	0
March 2043	100	6	2	0	0	100	0	0	0	0	100	18	7	0	0
March 2044	100	5	2	0	0	100	0	0	0	0	100	15	6	0	0
March 2045	100	4	2	0	0	100	0	0	0	0	100	12	5	0	0
March 2046	100	3	1	0	0	100	0	0	0	0	100	9	4	0	0
March 2047	100	2	1	0	0	100	0	0	0	0	100	7	3	0	0
March 2048	100	2	1	0	0	100	0	0	0	0	100	5	2	0	0
March 2049	100	1	0	0	0	100	0	0	0	0	100	4	1	0	0
March 2050	77	1	0	0	0	67	0	0	0	0	100	2	1	0	0
March 2051	51	0	0	0	0	27	0	0	0	0	100	1	0	0	0
March 2052	22	0	0	0	0	0	0	0	0	0	69	0	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.0	6.8	4.6	2.8	1.3	27.4	3.0	3.0	3.0	1.5	29.2	15.0	8.2	2.4	0.7

**Security Group 5
PSA Prepayment Assumption Rates**

Distribution Date	Classes DA, DB, DC, DE, DG, DH, DI, DJ, DK, DL, DM and DN					Classes JA, JB, JC, JD, JE, JG, JH, JI, JK, JL, JM and PN					Class P				
	0%	160%	250%	400%	500%	0%	160%	250%	400%	500%	0%	160%	250%	400%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	94	86	86	86	86	100	100	100	100	100	86	68	68	68	68
March 2025	87	63	63	63	63	100	100	100	100	100	71	14	14	14	14
March 2026	80	49	49	49	46	100	86	86	86	81	54	0	0	0	0
March 2027	73	39	39	39	32	100	68	68	68	56	37	0	0	0	0
March 2028	65	30	30	30	22	100	52	52	52	38	18	0	0	0	0
March 2029	57	22	22	22	15	99	39	39	39	26	0	0	0	0	0
March 2030	53	17	17	17	10	94	29	29	29	18	0	0	0	0	0
March 2031	50	12	12	12	7	87	21	21	21	12	0	0	0	0	0
March 2032	46	9	9	9	5	80	16	16	16	8	0	0	0	0	0
March 2033	42	7	7	7	3	73	11	11	11	5	0	0	0	0	0
March 2034	37	5	5	5	2	65	8	8	8	3	0	0	0	0	0
March 2035	33	3	3	3	1	57	6	6	6	2	0	0	0	0	0
March 2036	27	2	2	2	1	48	4	4	4	1	0	0	0	0	0
March 2037	22	1	1	1	0	38	3	3	3	0	0	0	0	0	0
March 2038	16	1	1	1	0	28	2	2	2	0	0	0	0	0	0
March 2039	10	0	0	0	0	17	1	1	1	0	0	0	0	0	0
March 2040	3	0	0	0	0	5	0	0	0	0	0	0	0	0	0
March 2041	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	8.5	4.0	4.0	4.0	3.4	12.4	6.0	6.0	6.0	5.0	3.2	1.3	1.3	1.3	1.3

PSA Prepayment Assumption Rates

Distribution Date	Classes PA, PB, PC, PD, PE, PG, PH, PI, PJ, PK, PL and PM					Class PZ					Class UZ				
	0%	160%	250%	400%	500%	0%	160%	250%	400%	500%	0%	160%	250%	400%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	97	93	93	93	93	107	107	107	107	107	107	107	100	88	81
March 2025	94	82	82	82	82	114	114	114	114	114	114	114	92	57	34
March 2026	90	67	67	67	63	121	121	121	121	121	121	121	82	23	0
March 2027	86	54	54	54	44	130	130	130	130	130	130	130	78	5	0
March 2028	82	41	41	41	30	138	138	138	138	138	138	138	78	0	0
March 2029	78	31	31	31	20	148	148	148	148	148	148	143	78	0	0
March 2030	74	23	23	23	14	157	157	157	157	157	157	143	75	0	0
March 2031	69	17	17	17	9	168	168	168	168	168	168	138	69	0	0
March 2032	63	12	12	12	6	179	179	179	179	179	179	131	63	0	0
March 2033	58	9	9	9	4	191	191	191	191	191	191	122	56	0	0
March 2034	51	6	6	6	3	204	204	204	204	204	204	112	50	0	0
March 2035	45	5	5	5	1	218	218	218	218	218	218	102	43	0	0
March 2036	38	3	3	3	1	232	232	232	232	232	232	92	37	0	0
March 2037	30	2	2	2	0	248	248	248	248	248	248	82	32	0	0
March 2038	22	1	1	1	0	264	264	264	264	209	264	73	27	0	0
March 2039	13	1	1	1	0	282	282	282	282	140	282	64	22	0	0
March 2040	4	0	0	0	0	301	301	301	301	93	301	56	19	0	0
March 2041	0	0	0	0	0	247	247	247	247	62	301	48	15	0	0
March 2042	0	0	0	0	0	177	177	177	177	41	286	41	12	0	0
March 2043	0	0	0	0	0	125	125	125	125	27	269	35	10	0	0
March 2044	0	0	0	0	0	88	88	88	88	17	251	30	8	0	0
March 2045	0	0	0	0	0	61	61	61	61	11	232	24	6	0	0
March 2046	0	0	0	0	0	41	41	41	41	7	210	20	5	0	0
March 2047	0	0	0	0	0	27	27	27	27	4	187	16	4	0	0
March 2048	0	0	0	0	0	17	17	17	17	2	162	12	3	0	0
March 2049	0	0	0	0	0	11	11	11	11	1	134	9	2	0	0
March 2050	0	0	0	0	0	6	6	6	6	1	105	6	1	0	0
March 2051	0	0	0	0	0	3	3	3	3	0	73	3	1	0	0
March 2052	0	0	0	0	0	1	1	1	1	0	38	1	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	10.5	5.0	5.0	5.0	4.2	20.1	20.1	20.1	20.1	16.9	24.8	16.0	11.0	2.2	1.6

**Security Group 6
PSA Prepayment Assumption Rates**

Distribution Date	Classes AC, AD, AE, AG, AH, AI, AJ, AK, AL and AP					Class AN					Classes FP and SP				
	0%	140%	200%	265%	400%	0%	140%	200%	265%	400%	0%	140%	200%	265%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	97	94	94	94	94	100	100	100	100	100	98	95	95	95	95
March 2025	95	84	84	84	84	100	100	100	100	100	96	87	87	87	87
March 2026	92	71	71	71	61	100	100	100	100	100	93	76	76	76	68
March 2027	89	58	58	58	41	100	100	100	100	100	91	65	65	65	51
March 2028	85	46	46	46	25	100	100	100	100	100	88	56	56	56	38
March 2029	82	35	35	35	13	100	100	100	100	100	85	46	46	46	29
March 2030	78	25	25	25	4	100	100	100	100	100	82	38	38	38	21
March 2031	74	17	17	17	0	100	100	100	100	84	79	32	32	32	16
March 2032	70	10	10	10	0	100	100	100	100	49	75	26	26	26	12
March 2033	65	4	4	4	0	100	100	100	100	23	71	21	21	21	9
March 2034	60	0	0	0	0	100	98	98	98	3	67	18	18	18	7
March 2035	54	0	0	0	0	100	71	71	71	0	63	14	14	14	5
March 2036	49	0	0	0	0	100	48	48	48	0	58	12	12	12	4
March 2037	43	0	0	0	0	100	29	29	29	0	53	10	10	10	3
March 2038	36	0	0	0	0	100	13	13	13	0	47	8	8	8	2
March 2039	29	0	0	0	0	100	0	0	0	0	42	6	6	6	1
March 2040	21	0	0	0	0	100	0	0	0	0	35	5	5	5	1
March 2041	13	0	0	0	0	100	0	0	0	0	29	4	4	4	1
March 2042	5	0	0	0	0	100	0	0	0	0	22	3	3	3	1
March 2043	0	0	0	0	0	67	0	0	0	0	14	2	2	2	0
March 2044	0	0	0	0	0	0	0	0	0	0	6	2	2	2	0
March 2045	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
March 2046	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
March 2047	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
March 2048	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
March 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	11.9	5.0	5.0	5.0	3.7	20.3	13.1	13.1	13.1	9.1	13.5	6.8	6.8	6.8	5.0

PSA Prepayment Assumption Rates

Distribution Date	Classes M, MA, MB, MC, MD, ME, MG, MH, MI and MJ					Class MY					Class ZU				
	0%	140%	200%	265%	400%	0%	140%	200%	265%	400%	0%	140%	200%	265%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	98	95	95	95	95	100	100	100	100	100	106	106	100	93	79
March 2025	95	86	86	86	86	100	100	100	100	100	113	113	91	68	21
March 2026	93	74	74	74	66	100	100	100	100	100	120	120	79	37	0
March 2027	90	63	63	63	48	100	100	100	100	100	127	127	71	15	0
March 2028	87	53	53	53	34	100	100	100	100	100	135	135	68	4	0
March 2029	84	43	43	43	24	100	100	100	100	100	143	143	69	0	0
March 2030	81	34	34	34	16	100	100	100	100	100	152	150	70	0	0
March 2031	77	27	27	27	10	100	100	100	100	100	161	151	69	0	0
March 2032	73	21	21	21	6	100	100	100	100	100	171	150	67	0	0
March 2033	69	16	16	16	3	100	100	100	100	100	182	146	64	0	0
March 2034	65	12	12	12	0	100	100	100	100	100	193	140	59	0	0
March 2035	60	9	9	9	0	100	100	100	100	78	205	132	55	0	0
March 2036	55	6	6	6	0	100	100	100	100	57	218	124	50	0	0
March 2037	50	4	4	4	0	100	100	100	100	42	231	115	45	0	0
March 2038	44	2	2	2	0	100	100	100	100	31	245	105	41	0	0
March 2039	38	0	0	0	0	100	100	100	100	23	261	96	36	0	0
March 2040	31	0	0	0	0	100	81	81	81	16	277	87	32	0	0
March 2041	24	0	0	0	0	100	65	65	65	12	294	77	28	0	0
March 2042	16	0	0	0	0	100	51	51	51	8	312	69	24	0	0
March 2043	8	0	0	0	0	100	40	40	40	6	331	60	20	0	0
March 2044	0	0	0	0	0	93	31	31	31	4	351	52	17	0	0
March 2045	0	0	0	0	0	24	24	24	24	3	346	44	14	0	0
March 2046	0	0	0	0	0	18	18	18	18	2	315	37	12	0	0
March 2047	0	0	0	0	0	14	14	14	14	1	280	31	9	0	0
March 2048	0	0	0	0	0	10	10	10	10	1	242	24	7	0	0
March 2049	0	0	0	0	0	7	7	7	7	1	201	19	5	0	0
March 2050	0	0	0	0	0	4	4	4	4	0	157	13	4	0	0
March 2051	0	0	0	0	0	2	2	2	2	0	109	8	2	0	0
March 2052	0	0	0	0	0	1	1	1	1	0	56	4	1	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	12.9	6.0	6.0	6.0	4.4	22.1	20.0	20.0	20.0	14.4	26.3	18.6	12.3	2.7	1.5

**Security Groups 2 and 6
PSA Prepayment Assumption Rates**

Distribution Date	Class SK								
	0%	100%	140%	200%	265%	300%	400%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100
March 2024	99	97	96	96	95	95	94	93	92
March 2025	97	91	89	87	85	84	81	79	72
March 2026	96	84	80	76	72	70	62	58	46
March 2027	94	77	71	66	61	58	47	42	29
March 2028	92	70	63	57	51	47	35	30	18
March 2029	90	64	55	48	42	38	26	22	12
March 2030	88	57	48	41	35	30	19	15	7
March 2031	86	52	42	35	29	24	15	11	5
March 2032	83	46	37	30	24	19	11	8	3
March 2033	81	41	32	25	20	16	8	6	2
March 2034	78	36	28	21	16	12	6	4	1
March 2035	75	31	25	18	13	10	4	3	1
March 2036	72	28	22	15	11	8	3	2	0
March 2037	69	25	19	13	9	6	2	1	0
March 2038	65	22	16	11	7	5	2	1	0
March 2039	61	20	14	9	6	4	1	1	0
March 2040	57	17	12	7	5	3	1	0	0
March 2041	52	15	10	6	4	2	1	0	0
March 2042	47	13	9	5	3	2	0	0	0
March 2043	42	12	8	4	2	1	0	0	0
March 2044	36	10	6	3	2	1	0	0	0
March 2045	32	9	5	3	1	1	0	0	0
March 2046	29	7	4	2	1	1	0	0	0
March 2047	26	6	3	2	1	0	0	0	0
March 2048	22	5	3	1	1	0	0	0	0
March 2049	18	4	2	1	0	0	0	0	0
March 2050	14	3	1	1	0	0	0	0	0
March 2051	10	2	1	0	0	0	0	0	0
March 2052	5	1	0	0	0	0	0	0	0
March 2053	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.7	9.9	8.5	7.3	6.5	5.9	4.7	4.3	3.4

**Security Group 7
PSA Prepayment Assumption Rates**

Distribution Date	Class LQ					Class LU					Class OP				
	0%	220%	250%	300%	500%	0%	220%	250%	300%	500%	0%	220%	250%	300%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	100	91	91	91	91	100	100	95	88	58	100	95	93	90	76
March 2025	100	71	71	71	44	100	100	85	62	0	100	84	77	67	24
March 2026	100	46	46	46	0	100	100	74	33	0	100	71	59	40	0
March 2027	100	27	27	27	0	100	100	66	15	0	100	61	45	22	0
March 2028	100	14	14	14	0	100	100	61	5	0	100	53	36	10	0
March 2029	100	5	5	5	0	100	100	59	0	0	100	49	30	3	0
March 2030	100	1	1	1	0	100	99	58	0	0	100	46	27	1	0
March 2031	100	1	1	1	0	100	96	55	0	0	100	44	26	0	0
March 2032	100	1	1	1	0	100	91	52	0	0	100	42	24	0	0
March 2033	100	0	0	0	0	100	84	47	0	0	100	39	22	0	0
March 2034	100	0	0	0	0	100	76	43	0	0	100	35	20	0	0
March 2035	100	0	0	0	0	100	69	38	0	0	100	32	18	0	0
March 2036	100	0	0	0	0	100	61	34	0	0	100	28	16	0	0
March 2037	100	0	0	0	0	100	54	30	0	0	100	25	14	0	0
March 2038	100	0	0	0	0	100	48	26	0	0	100	22	12	0	0
March 2039	100	0	0	0	0	100	41	22	0	0	100	19	10	0	0
March 2040	100	0	0	0	0	100	36	19	0	0	100	16	9	0	0
March 2041	100	0	0	0	0	100	30	16	0	0	100	14	7	0	0
March 2042	100	0	0	0	0	100	26	13	0	0	100	12	6	0	0
March 2043	100	0	0	0	0	100	21	11	0	0	100	10	5	0	0
March 2044	100	0	0	0	0	100	18	9	0	0	100	8	4	0	0
March 2045	100	0	0	0	0	100	14	7	0	0	100	7	3	0	0
March 2046	100	0	0	0	0	100	11	5	0	0	100	5	2	0	0
March 2047	100	0	0	0	0	100	9	4	0	0	100	4	2	0	0
March 2048	100	0	0	0	0	100	7	3	0	0	100	3	1	0	0
March 2049	100	0	0	0	0	100	5	2	0	0	100	2	1	0	0
March 2050	57	0	0	0	0	100	3	1	0	0	77	1	1	0	0
March 2051	6	0	0	0	0	100	2	1	0	0	49	1	0	0	0
March 2052	0	0	0	0	0	45	1	0	0	0	21	0	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	27.1	3.1	3.1	3.1	1.8	28.9	15.5	9.8	2.5	1.1	28.0	8.8	6.2	2.8	1.5

**Security Group 8
PSA Prepayment Assumption Rates**

Distribution Date	Classes FM, SM, ST and TI						Class MZ					
	0%	100%	250%	400%	600%	800%	0%	100%	250%	400%	600%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	99	97	94	92	88	85	107	107	107	105	103	87
March 2025	97	91	83	74	64	57	114	114	114	112	110	40
March 2026	96	84	68	54	44	31	121	121	121	120	0	0
March 2027	95	77	56	39	28	16	130	130	130	128	0	0
March 2028	93	70	45	27	18	8	138	138	138	136	0	0
March 2029	91	64	36	19	11	4	148	148	148	120	0	0
March 2030	89	58	29	14	7	2	157	157	157	105	0	0
March 2031	87	53	22	9	4	1	168	168	168	102	0	0
March 2032	85	47	16	5	3	1	179	179	179	106	0	0
March 2033	82	42	11	2	2	0	191	191	191	113	0	0
March 2034	80	37	7	0	1	0	204	204	204	113	0	0
March 2035	77	32	3	0	1	0	218	218	218	84	0	0
March 2036	74	28	0	0	0	0	232	232	232	62	0	0
March 2037	71	23	0	0	0	0	248	248	192	45	0	0
March 2038	67	19	0	0	0	0	264	264	157	33	0	0
March 2039	63	15	0	0	0	0	282	282	128	24	0	0
March 2040	59	11	0	0	0	0	301	301	104	18	0	0
March 2041	55	7	0	0	0	0	321	321	84	13	0	0
March 2042	50	3	0	0	0	0	343	343	67	9	0	0
March 2043	45	0	0	0	0	0	366	359	54	6	0	0
March 2044	39	0	0	0	0	0	390	313	42	5	0	0
March 2045	33	0	0	0	0	0	416	269	33	3	0	0
March 2046	27	0	0	0	0	0	444	227	25	2	0	0
March 2047	20	0	0	0	0	0	474	188	19	1	0	0
March 2048	12	0	0	0	0	0	506	151	14	1	0	0
March 2049	4	0	0	0	0	0	539	116	9	1	0	0
March 2050	0	0	0	0	0	0	480	83	6	0	0	0
March 2051	0	0	0	0	0	0	333	51	3	0	0	0
March 2052	0	0	0	0	0	0	173	21	1	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.4	9.1	5.2	3.9	3.2	2.6	28.3	24.4	17.5	12.1	2.7	1.7

**Security Group 9
PSA Prepayment Assumption Rates**

Distribution Date	Classes IL and IA						Class ZL					
	0%	100%	300%	450%	700%	900%	0%	100%	300%	450%	700%	900%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	99	96	93	90	85	82	107	107	107	107	107	107
March 2025	97	90	79	70	57	47	114	114	114	114	114	114
March 2026	95	83	61	47	28	16	121	121	121	121	121	121
March 2027	93	75	47	31	11	1	130	130	130	130	130	130
March 2028	91	68	35	18	1	0	138	138	138	138	138	62
March 2029	89	61	25	9	0	0	148	148	148	148	83	28
March 2030	87	55	17	2	0	0	157	157	157	157	47	13
March 2031	84	49	10	0	0	0	168	168	168	128	27	6
March 2032	82	43	4	0	0	0	179	179	179	91	15	3
March 2033	79	37	0	0	0	0	191	191	182	65	9	1
March 2034	76	31	0	0	0	0	204	204	146	46	5	1
March 2035	72	26	0	0	0	0	218	218	116	33	3	0
March 2036	69	21	0	0	0	0	232	232	93	23	2	0
March 2037	65	16	0	0	0	0	248	248	73	17	1	0
March 2038	60	11	0	0	0	0	264	264	58	12	0	0
March 2039	56	6	0	0	0	0	282	282	46	8	0	0
March 2040	51	1	0	0	0	0	301	301	36	6	0	0
March 2041	46	0	0	0	0	0	321	280	28	4	0	0
March 2042	40	0	0	0	0	0	343	248	22	3	0	0
March 2043	34	0	0	0	0	0	366	218	17	2	0	0
March 2044	27	0	0	0	0	0	390	190	13	1	0	0
March 2045	20	0	0	0	0	0	416	163	9	1	0	0
March 2046	12	0	0	0	0	0	444	138	7	1	0	0
March 2047	4	0	0	0	0	0	474	114	5	0	0	0
March 2048	0	0	0	0	0	0	452	92	4	0	0	0
March 2049	0	0	0	0	0	0	375	70	2	0	0	0
March 2050	0	0	0	0	0	0	292	50	1	0	0	0
March 2051	0	0	0	0	0	0	202	31	1	0	0	0
March 2052	0	0	0	0	0	0	105	13	0	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	15.8	8.2	4.2	3.2	2.3	2.0	27.5	22.8	14.1	10.3	6.9	5.3

**Security Group 10
PSA Prepayment Assumption Rates**

Distribution Date	Classes EA, EB and EI					Class EZ				
	0%	100%	300%	450%	600%	0%	100%	300%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100
March 2024	98	96	93	90	88	106	106	106	106	106
March 2025	96	90	79	70	62	113	113	113	113	113
March 2026	94	82	61	47	34	120	120	120	120	120
March 2027	92	74	45	28	15	127	127	127	127	127
March 2028	90	66	33	15	3	135	135	135	135	135
March 2029	87	59	22	5	0	143	143	143	143	100
March 2030	84	52	13	0	0	152	152	152	133	63
March 2031	82	45	6	0	0	161	161	161	95	39
March 2032	78	39	0	0	0	171	171	168	68	25
March 2033	75	33	0	0	0	182	182	134	48	15
March 2034	72	27	0	0	0	193	193	107	34	10
March 2035	68	21	0	0	0	205	205	85	24	6
March 2036	64	15	0	0	0	218	218	68	17	4
March 2037	59	10	0	0	0	231	231	54	12	2
March 2038	55	4	0	0	0	245	245	42	9	1
March 2039	50	0	0	0	0	261	253	33	6	1
March 2040	44	0	0	0	0	277	227	26	4	1
March 2041	38	0	0	0	0	294	202	20	3	0
March 2042	32	0	0	0	0	312	179	16	2	0
March 2043	26	0	0	0	0	331	157	12	1	0
March 2044	18	0	0	0	0	351	137	9	1	0
March 2045	11	0	0	0	0	373	118	7	1	0
March 2046	3	0	0	0	0	396	99	5	0	0
March 2047	0	0	0	0	0	371	82	4	0	0
March 2048	0	0	0	0	0	320	66	3	0	0
March 2049	0	0	0	0	0	265	51	2	0	0
March 2050	0	0	0	0	0	206	37	1	0	0
March 2051	0	0	0	0	0	142	24	1	0	0
March 2052	0	0	0	0	0	74	11	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0
Weighted Average										
Life (years)	14.7	7.6	4.0	3.1	2.5	27.0	21.9	13.2	9.6	7.5

**Security Group 11
PSA Prepayment Assumption Rates**

Distribution Date	Class B				
	0%	100%	150%	300%	400%
Initial Percent	100	100	100	100	100
March 2024	98	92	89	80	74
March 2025	96	85	79	64	55
March 2026	94	78	71	52	41
March 2027	91	71	63	41	31
March 2028	89	65	56	33	23
March 2029	87	60	49	26	17
March 2030	84	54	43	21	12
March 2031	81	49	38	17	9
March 2032	78	45	34	13	7
March 2033	75	41	29	10	5
March 2034	72	37	26	8	4
March 2035	69	33	22	6	3
March 2036	65	29	19	5	2
March 2037	62	26	16	4	1
March 2038	58	23	14	3	1
March 2039	54	20	12	2	1
March 2040	50	17	10	2	0
March 2041	45	15	8	1	0
March 2042	41	13	7	1	0
March 2043	36	10	5	1	0
March 2044	31	9	4	0	0
March 2045	26	7	3	0	0
March 2046	21	5	2	0	0
March 2047	15	3	2	0	0
March 2048	9	2	1	0	0
March 2049	3	1	0	0	0
March 2050	0	0	0	0	0
Weighted Average					
Life (years)	15.8	9.4	7.5	4.4	3.3

**Security Group 12
PSA Prepayment Assumption Rates**

Distribution Date	Classes ND, NE and NI						Class NZ					
	0%	100%	250%	400%	600%	800%	0%	100%	250%	400%	600%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100
March 2024	98	96	93	91	87	84	106	106	106	106	106	106
March 2025	96	89	80	72	61	50	113	113	113	113	113	113
March 2026	93	80	64	49	31	16	120	120	120	120	120	120
March 2027	91	72	49	30	11	0	127	127	127	127	127	113
March 2028	88	64	36	16	0	0	135	135	135	135	123	58
March 2029	85	56	25	5	0	0	143	143	143	143	77	29
March 2030	82	48	16	0	0	0	152	152	152	130	49	15
March 2031	79	41	7	0	0	0	161	161	161	97	31	8
March 2032	75	34	0	0	0	0	171	171	171	72	19	4
March 2033	71	27	0	0	0	0	182	182	143	54	12	2
March 2034	67	21	0	0	0	0	193	193	119	40	7	1
March 2035	63	14	0	0	0	0	205	205	98	29	5	1
March 2036	58	8	0	0	0	0	218	218	81	22	3	0
March 2037	53	2	0	0	0	0	231	231	66	16	2	0
March 2038	48	0	0	0	0	0	245	218	54	12	1	0
March 2039	42	0	0	0	0	0	261	197	44	8	1	0
March 2040	36	0	0	0	0	0	277	177	36	6	0	0
March 2041	29	0	0	0	0	0	294	158	29	4	0	0
March 2042	22	0	0	0	0	0	312	140	23	3	0	0
March 2043	14	0	0	0	0	0	331	123	18	2	0	0
March 2044	6	0	0	0	0	0	351	107	15	2	0	0
March 2045	0	0	0	0	0	0	357	92	11	1	0	0
March 2046	0	0	0	0	0	0	323	78	9	1	0	0
March 2047	0	0	0	0	0	0	287	64	6	1	0	0
March 2048	0	0	0	0	0	0	247	52	5	0	0	0
March 2049	0	0	0	0	0	0	205	40	3	0	0	0
March 2050	0	0	0	0	0	0	159	29	2	0	0	0
March 2051	0	0	0	0	0	0	110	18	1	0	0	0
March 2052	0	0	0	0	0	0	57	9	1	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	13.4	7.0	4.2	3.1	2.4	2.0	26.3	20.9	14.0	9.9	7.0	5.3

**Security Group 13
PSA Prepayment Assumption Rates**

Distribution Date	Classes PO and WA					Class IO				
	0%	100%	150%	300%	400%	0%	100%	150%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100
March 2024	100	100	100	94	85	93	84	80	63	46
March 2025	100	100	100	80	74	86	71	64	30	18
March 2026	100	100	100	76	66	80	59	51	16	8
March 2027	100	100	99	69	59	74	51	43	8	5
March 2028	100	99	98	63	53	68	44	36	5	3
March 2029	100	98	96	58	49	62	38	31	4	2
March 2030	100	98	93	54	45	57	34	28	3	2
March 2031	100	95	90	50	40	54	30	26	3	1
March 2032	100	93	86	47	37	50	29	25	2	1
March 2033	99	91	83	43	32	46	27	24	2	1
March 2034	99	88	79	39	24	42	26	23	1	1
March 2035	98	86	75	37	17	38	26	23	1	0
March 2036	98	83	72	32	12	36	26	22	1	0
March 2037	97	80	68	25	8	33	25	20	1	0
March 2038	95	76	63	19	6	31	24	18	0	0
March 2039	93	73	58	14	4	29	23	16	0	0
March 2040	91	69	54	10	3	29	22	15	0	0
March 2041	88	65	48	7	2	28	21	13	0	0
March 2042	85	60	40	5	1	28	20	10	0	0
March 2043	81	54	31	3	1	27	19	7	0	0
March 2044	75	42	21	2	0	27	15	6	0	0
March 2045	65	29	14	1	0	26	12	4	0	0
March 2046	43	18	8	0	0	26	8	3	0	0
March 2047	33	10	5	0	0	24	5	2	0	0
March 2048	29	5	3	0	0	22	3	2	0	0
March 2049	19	2	1	0	0	20	2	1	0	0
March 2050	10	1	0	0	0	11	1	1	0	0
March 2051	0	0	0	0	0	2	0	0	0	0
March 2052	0	0	0	0	0	1	0	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	22.5	18.7	16.4	8.8	6.7	12.0	8.0	6.5	1.9	1.4

**Security Group 14
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Classes EJ, FL, FN and S</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
March 2024	99	97	95	92	89	85
March 2025	98	92	84	76	66	57
March 2026	97	86	71	57	42	29
March 2027	96	80	59	43	27	15
March 2028	95	74	50	32	17	8
March 2029	94	68	42	24	11	4
March 2030	92	63	35	18	7	2
March 2031	91	58	29	13	4	1
March 2032	89	54	24	10	3	1
March 2033	88	49	20	7	2	0
March 2034	86	45	17	6	1	0
March 2035	84	41	14	4	1	0
March 2036	82	38	11	3	0	0
March 2037	79	34	9	2	0	0
March 2038	77	31	8	2	0	0
March 2039	74	28	6	1	0	0
March 2040	71	25	5	1	0	0
March 2041	68	22	4	1	0	0
March 2042	64	20	3	0	0	0
March 2043	60	18	3	0	0	0
March 2044	56	15	2	0	0	0
March 2045	52	13	2	0	0	0
March 2046	47	11	1	0	0	0
March 2047	42	9	1	0	0	0
March 2048	36	7	1	0	0	0
March 2049	30	6	0	0	0	0
March 2050	23	4	0	0	0	0
March 2051	16	2	0	0	0	0
March 2052	8	1	0	0	0	0
March 2053	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.4	6.5	4.5	3.2	2.5

**Security Groups 8 and 14
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Class SE</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
March 2024	99	97	94	92	88	85
March 2025	98	92	83	75	65	57
March 2026	97	85	70	56	43	30
March 2027	95	78	58	41	27	15
March 2028	94	72	48	30	17	8
March 2029	93	66	39	22	11	4
March 2030	91	61	32	16	7	2
March 2031	89	56	26	12	4	1
March 2032	88	51	21	8	3	1
March 2033	85	46	16	5	2	0
March 2034	83	42	13	3	1	0
March 2035	81	38	9	2	1	0
March 2036	78	34	7	2	0	0
March 2037	76	30	5	1	0	0
March 2038	73	26	4	1	0	0
March 2039	70	23	4	1	0	0
March 2040	66	19	3	0	0	0
March 2041	62	16	2	0	0	0
March 2042	58	13	2	0	0	0
March 2043	54	10	2	0	0	0
March 2044	49	9	1	0	0	0
March 2045	44	8	1	0	0	0
March 2046	39	6	1	0	0	0
March 2047	33	5	1	0	0	0
March 2048	26	4	0	0	0	0
March 2049	19	3	0	0	0	0
March 2050	14	2	0	0	0	0
March 2051	9	1	0	0	0	0
March 2052	5	1	0	0	0	0
March 2053	0	0	0	0	0	0
Weighted Average Life (years)	19.2	10.5	5.9	4.2	3.2	2.5

**Security Group 15
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Classes PF and PS</u>					
	<u>0%</u>	<u>100%</u>	<u>300%</u>	<u>480%</u>	<u>750%</u>	<u>1,000%</u>
Initial Percent . . .	100	100	100	100	100	100
March 2024	99	97	94	92	88	84
March 2025	98	93	82	74	61	50
March 2026	97	86	67	52	34	21
March 2027	96	80	54	37	18	8
March 2028	95	74	44	26	10	3
March 2029	94	69	36	18	5	1
March 2030	92	63	29	13	3	0
March 2031	91	58	23	9	2	0
March 2032	89	54	19	6	1	0
March 2033	88	50	15	4	0	0
March 2034	86	45	12	3	0	0
March 2035	84	42	9	2	0	0
March 2036	82	38	8	1	0	0
March 2037	79	34	6	1	0	0
March 2038	77	31	5	1	0	0
March 2039	74	28	4	0	0	0
March 2040	71	25	3	0	0	0
March 2041	68	23	2	0	0	0
March 2042	64	20	2	0	0	0
March 2043	60	18	1	0	0	0
March 2044	56	15	1	0	0	0
March 2045	52	13	1	0	0	0
March 2046	47	11	1	0	0	0
March 2047	42	9	0	0	0	0
March 2048	36	7	0	0	0	0
March 2049	30	6	0	0	0	0
March 2050	23	4	0	0	0	0
March 2051	16	3	0	0	0	0
March 2052	8	1	0	0	0	0
March 2053	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.5	5.7	3.9	2.7	2.2

**Security Group 16
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Classes NF and NS</u>					
	<u>0%</u>	<u>100%</u>	<u>300%</u>	<u>480%</u>	<u>750%</u>	<u>1,000%</u>
Initial Percent . . .	100	100	100	100	100	100
March 2024	99	97	94	91	86	82
March 2025	98	92	81	72	59	47
March 2026	97	86	66	51	32	19
March 2027	96	80	54	36	18	8
March 2028	95	74	43	25	10	3
March 2029	94	68	35	18	5	1
March 2030	92	63	28	12	3	0
March 2031	91	58	23	9	2	0
March 2032	89	54	18	6	1	0
March 2033	88	49	15	4	0	0
March 2034	86	45	12	3	0	0
March 2035	84	41	9	2	0	0
March 2036	82	38	7	1	0	0
March 2037	79	34	6	1	0	0
March 2038	77	31	5	1	0	0
March 2039	74	28	4	0	0	0
March 2040	71	25	3	0	0	0
March 2041	68	23	2	0	0	0
March 2042	64	20	2	0	0	0
March 2043	60	18	1	0	0	0
March 2044	56	15	1	0	0	0
March 2045	52	13	1	0	0	0
March 2046	47	11	1	0	0	0
March 2047	42	9	0	0	0	0
March 2048	36	7	0	0	0	0
March 2049	30	6	0	0	0	0
March 2050	23	4	0	0	0	0
March 2051	16	3	0	0	0	0
March 2052	8	1	0	0	0	0
March 2053	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.5	5.6	3.8	2.7	2.1

**Security Groups 14 and 16
PSA Prepayment Assumption Rates**

Distribution Date	Class F									
	0%	100%	250%	300%	400%	480%	600%	750%	800%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100
March 2024	99	97	95	94	92	91	89	86	85	82
March 2025	98	92	84	81	76	72	66	59	57	47
March 2026	97	86	71	66	58	51	42	32	29	19
March 2027	96	80	59	54	43	36	27	18	15	8
March 2028	95	74	50	43	32	25	17	10	8	3
March 2029	94	68	42	35	24	18	11	5	4	1
March 2030	92	63	35	28	18	12	7	3	2	0
March 2031	91	58	29	23	13	9	4	2	1	0
March 2032	89	54	24	18	10	6	3	1	1	0
March 2033	88	49	20	15	7	4	2	0	0	0
March 2034	86	45	17	12	6	3	1	0	0	0
March 2035	84	41	14	9	4	2	1	0	0	0
March 2036	82	38	11	7	3	1	0	0	0	0
March 2037	79	34	9	6	2	1	0	0	0	0
March 2038	77	31	8	5	2	1	0	0	0	0
March 2039	74	28	6	4	1	0	0	0	0	0
March 2040	71	25	5	3	1	0	0	0	0	0
March 2041	68	22	4	2	1	0	0	0	0	0
March 2042	64	20	3	2	0	0	0	0	0	0
March 2043	60	18	3	1	0	0	0	0	0	0
March 2044	56	15	2	1	0	0	0	0	0	0
March 2045	52	13	2	1	0	0	0	0	0	0
March 2046	47	11	1	1	0	0	0	0	0	0
March 2047	42	9	1	0	0	0	0	0	0	0
March 2048	36	7	1	0	0	0	0	0	0	0
March 2049	30	6	0	0	0	0	0	0	0	0
March 2050	23	4	0	0	0	0	0	0	0	0
March 2051	16	2	0	0	0	0	0	0	0	0
March 2052	8	1	0	0	0	0	0	0	0	0
March 2053	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.4	6.5	5.6	4.5	3.8	3.2	2.7	2.5	2.1

**Security Groups 15 and 16
PSA Prepayment Assumption Rates**

Distribution Date	Class SN					
	0%	100%	300%	480%	750%	1,000%
Initial Percent	100	100	100	100	100	100
March 2024	99	97	94	91	87	83
March 2025	98	92	82	73	60	49
March 2026	97	86	67	52	33	20
March 2027	96	80	54	36	18	8
March 2028	95	74	44	26	10	3
March 2029	94	68	35	18	5	1
March 2030	92	63	28	13	3	0
March 2031	91	58	23	9	2	0
March 2032	89	54	18	6	1	0
March 2033	88	49	15	4	0	0
March 2034	86	45	12	3	0	0
March 2035	84	41	9	2	0	0
March 2036	82	38	7	1	0	0
March 2037	79	34	6	1	0	0
March 2038	77	31	5	1	0	0
March 2039	74	28	4	0	0	0
March 2040	71	25	3	0	0	0
March 2041	68	23	2	0	0	0
March 2042	64	20	2	0	0	0
March 2043	60	18	1	0	0	0
March 2044	56	15	1	0	0	0
March 2045	52	13	1	0	0	0
March 2046	47	11	1	0	0	0
March 2047	42	9	0	0	0	0
March 2048	36	7	0	0	0	0
March 2049	30	6	0	0	0	0
March 2050	23	4	0	0	0	0
March 2051	16	3	0	0	0	0
March 2052	8	1	0	0	0	0
March 2053	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.5	5.7	3.9	2.7	2.2

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,
- in the case of the Group 4, 7, 11 and 13 Securities, the investor's own projection of payment rates on the Underlying Certificates under a variety of scenarios and
- in the case of a Floating Rate, Inverse Floating Rate or Weighted Average Coupon Class, the investor's own projection of levels of Compounded SOFR under a variety of scenarios.

No representation is made regarding Mortgage Loan prepayment rates, Underlying Certificate payment rates, Compounded 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 (especially the Principal Only Classes), slower than anticipated rates of principal payments could result in actual yields to investors that are lower than the anticipated yields.
- Investors in the MX Class that is subject to mandatory exchange should consider that differing rates of reduction in the related REMIC Securities may ultimately cause that Class to become a Principal Only Class or to be exchanged for the related REMIC Securities (consisting primarily or exclusively of an Interest Only Class).

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.

Compounded SOFR: Effect on Yields of the Floating Rate, Inverse Floating Rate and Weighted Average Coupon Classes

Low levels of Compounded SOFR can reduce the yield of the Floating Rate Classes and, under certain circumstances, the Weighted Average Coupon Classes. High levels of Compounded SOFR can reduce the yield of the Inverse Floating Rate and, under certain circumstances, the Weighted Average Coupon Classes. In addition, the Floating Rate Classes will not necessarily benefit from a higher yield at high levels of Compounded SOFR and certain Inverse Floating Rate Classes may not benefit from particularly low levels of Compounded 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 and Delay Classes

The effective yield on any Fixed Rate or Delay 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 and Weighted Average Coupon Classes, at various constant levels of Compounded SOFR.

The Mortgage Loans will not prepay at any constant rate until maturity, and it is unlikely that Compounded 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 (in the case of interest-bearing Classes), 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 and Weighted Average Coupon Class for each Accrual Period following the first Accrual Period will be based on the indicated level of Compounded 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 (in the case of interest-bearing Classes) is as indicated in the related table. **The assumed purchase price is not necessarily that at which actual sales will occur.**

SECURITY GROUP 2

**Sensitivity of Class SA to Prepayments
Assumed Price 3.35%***

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>
3.4674%	65.5%	56.7%	50.0%	43.2%
4.4674%	29.8%	19.8%	12.1%	4.2%
5.0337%	10.2%	(0.7)%	(9.3)%	(18.1)%
5.6000% and above	**	**	**	**

**Sensitivity of Class SC to Prepayments
Assumed Price 4.4%***

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>
3.4674%	66.7%	58.0%	51.3%	44.5%
4.4674%	39.1%	29.5%	22.2%	14.7%
5.3837%	14.9%	4.2%	(4.1)%	(12.7)%
6.3000% and above	**	**	**	**

**Sensitivity of Class SD to Prepayments
Assumed Price 4.3%***

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>
3.4674%	62.6%	53.8%	47.0%	40.2%
4.4674%	34.7%	24.9%	17.4%	9.8%
5.2837%	12.7%	1.9%	(6.5)%	(15.2)%
6.1000% and above	**	**	**	**

**Sensitivity of Class SI to Prepayments
Assumed Price 1.0%***

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>
6.1% and below	13.7%	2.9%	(5.5)%	(14.2)%
6.2%	1.7%	(9.6)%	(18.5)%	(27.9)%
6.3% 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 3

**Sensitivity of Class CI to Prepayments
Assumed Price 16.5%***

PSA Prepayment Assumption Rates				
<u>160%</u>	<u>290%</u>	<u>320%</u>	<u>600%</u>	<u>818%</u>
25.5%	25.5%	25.5%	12.3%	0.0%

**Sensitivity of Class KI to Prepayments
Assumed Price 19.75%***

PSA Prepayment Assumption Rates				
<u>160%</u>	<u>290%</u>	<u>320%</u>	<u>600%</u>	<u>769%</u>
20.3%	20.3%	20.3%	8.6%	0.0%

**Sensitivity of Class SB to Prepayments
Assumed Price 4.25%***

<u>Compounded SOFR</u>	PSA Prepayment Assumption Rates			
	<u>160%</u>	<u>290%</u>	<u>320%</u>	<u>600%</u>
3.55037%	63.7%	58.0%	56.6%	44.1%
4.55037%	34.9%	28.6%	27.2%	13.2%
5.41019%	11.1%	4.1%	2.4%	(13.4)%
6.27000% and above	**	**	**	**

SECURITY GROUP 5

**Sensitivity of Class DI to Prepayments
Assumed Price 13.0%***

PSA Prepayment Assumption Rates				
<u>160%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>	<u>1,028%</u>
27.6%	27.6%	27.6%	24.4%	0.0%

**Sensitivity of Class JI to Prepayments
Assumed Price 19.1%***

PSA Prepayment Assumption Rates				
<u>160%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>	<u>920%</u>
24.3%	24.3%	24.3%	20.5%	0.0%

**Sensitivity of Class PI to Prepayments
Assumed Price 16.0%***

PSA Prepayment Assumption Rates				
<u>160%</u>	<u>250%</u>	<u>400%</u>	<u>500%</u>	<u>964%</u>
25.7%	25.7%	25.7%	22.1%	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 6

**Sensitivity of Class AI to Prepayments
Assumed Price 14.75%***

PSA Prepayment Assumption Rates				
<u>140%</u>	<u>200%</u>	<u>265%</u>	<u>400%</u>	<u>708%</u>
27.1%	27.1%	27.1%	19.9%	0.0%

**Sensitivity of Class MI to Prepayments
Assumed Price 17.4%***

PSA Prepayment Assumption Rates				
<u>140%</u>	<u>200%</u>	<u>265%</u>	<u>400%</u>	<u>677%</u>
22.4%	22.4%	22.4%	16.1%	0.0%

**Sensitivity of Class SP to Prepayments
Assumed Price 3.5%***

<u>Compounded SOFR</u>	PSA Prepayment Assumption Rates			
	<u>140%</u>	<u>200%</u>	<u>265%</u>	<u>400%</u>
3.55806%	53.6%	53.6%	53.6%	50.0%
4.55806%	18.8%	18.8%	18.8%	13.1%
5.07903%	0.5%	0.5%	0.5%	(6.7)%
5.60000% and above	**	**	**	**

SECURITY GROUPS 2 AND 6

**Sensitivity of Class SK to Prepayments
Assumed Price 3.4%***

<u>Compounded SOFR</u>	PSA Prepayment Assumption Rates							
	<u>100%</u>	<u>140%</u>	<u>200%</u>	<u>265%</u>	<u>300%</u>	<u>400%</u>	<u>450%</u>	<u>600%</u>
3.50159%	62.0%	60.0%	58.4%	56.6%	55.4%	51.5%	49.5%	43.1%
4.50159%	26.7%	24.6%	22.6%	20.5%	19.0%	14.2%	11.7%	4.0%
5.05080%	7.7%	5.6%	3.3%	1.0%	(0.8)%	(6.4)%	(9.3)%	(18.0)%
5.60000% and above	**	**	**	**	**	**	**	**

SECURITY GROUP 7

**Sensitivity of Class OP to Prepayments
Assumed Price 75.0%**

PSA Prepayment Assumption Rates			
<u>220%</u>	<u>250%</u>	<u>300%</u>	<u>500%</u>
3.7%	5.5%	10.9%	20.9%

* 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 8

Sensitivity of Class SM to Prepayments Assumed Price 3.0%*

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>
3.55806%	71.3%	63.9%	56.4%	48.6%	40.3%
4.55806%	30.8%	21.9%	13.3%	6.0%	(4.4)%
5.09403%	9.4%	(1.6)%	(11.4)%	(17.0)%	(29.2)%
5.63000% and above	**	**	**	**	**

Sensitivity of Class ST to Prepayments Assumed Price 2.95%*

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>
3.55806%	71.5%	64.1%	56.6%	48.8%	40.5%
4.55806%	30.3%	21.4%	12.7%	5.4%	(5.0)%
5.07903%	9.2%	(1.9)%	(11.8)%	(17.2)%	(29.5)%
5.60000% and above	**	**	**	**	**

Sensitivity of Class TI to Prepayments Assumed Price 1.0%*

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>
5.600% and below	(15.3)%	(31.8)%	(43.8)%	(39.8)%	(53.9)%
5.615%	(21.1)%	(39.3)%	(51.9)%	(44.0)%	(58.3)%
5.630% and above	**	**	**	**	**

SECURITY GROUP 9

Sensitivity of Class II to Prepayments Assumed Price 8.0%*

	<u>PSA Prepayment Assumption Rates</u>					
	<u>100%</u>	<u>300%</u>	<u>450%</u>	<u>700%</u>	<u>900%</u>	<u>1,679%</u>
	84.2%	74.0%	66.1%	52.3%	41.1%	0.0%

SECURITY GROUP 10

Sensitivity of Class EI to Prepayments Assumed Price 6.0%*

	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>	<u>2,363%</u>
	108.0%	98.6%	91.2%	83.7%	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 12

**Sensitivity of Class NI to Prepayments
Assumed Price 7.75%***

PSA Prepayment Assumption Rates					
100%	250%	400%	600%	800%	1,551%
78.3%	70.2%	61.7%	50.0%	38.6%	0.0%

SECURITY GROUP 13

**Sensitivity of Class IO to Prepayments
Assumed Price 7.75%***

Compounded SOFR	PSA Prepayment Assumption Rates			
	100%	150%	300%	400%
3.50%	23.1%	18.5%	(2.8)%	(11.8)%
4.50%	24.4%	19.9%	(2.4)%	(11.7)%
6.00%	15.9%	10.4%	(5.1)%	(13.2)%
6.85%	14.7%	9.0%	(6.6)%	(14.7)%
6.98% and above	7.8%	1.9%	(15.1)%	(23.1)%

**Sensitivity of Class PO to Prepayments
Assumed Price 46.35%**

PSA Prepayment Assumption Rates			
100%	150%	300%	400%
4.3%	5.0%	11.4%	16.0%

**Sensitivity of Class WA to Prepayments
Assumed Price 77.25%***

Compounded SOFR	PSA Prepayment Assumption Rates			
	100%	150%	300%	400%
3.50%	7.9%	7.5%	8.5%	9.5%
4.50%	8.2%	7.8%	8.6%	9.6%
6.00%	6.1%	5.8%	7.9%	9.1%
6.85%	5.9%	5.6%	7.7%	8.9%
6.98% and above	4.8%	4.6%	6.5%	7.6%

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

SECURITY GROUP 14

Sensitivity of Class S to Prepayments Assumed Price 2.7%*

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>
3.55806%	80.7%	74.0%	67.2%	58.0%	48.6%
4.55806%	35.4%	27.9%	20.2%	9.6%	(1.3)%
5.07903%	13.1%	4.9%	(3.6)%	(15.4)%	(27.8)%
5.60000% and above ...	**	**	**	**	**

SECURITY GROUPS 8 AND 14

Sensitivity of Class SE to Prepayments Assumed Price 2.8%*

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>
3.55806%	76.8%	69.8%	62.8%	54.1%	45.1%
4.55806%	33.3%	25.2%	17.2%	7.8%	(2.8)%
5.07903%	11.5%	2.5%	(6.4)%	(16.2)%	(28.5)%
5.60000% and above ...	**	**	**	**	**

SECURITY GROUP 15

Sensitivity of Class PS to Prepayments Assumed Price 4.25%*

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>480%</u>	<u>750%</u>	<u>1,000%</u>
3.4674%	48.9%	39.7%	31.1%	18.1%	5.7%
4.4674%	21.5%	11.1%	1.4%	(13.6)%	(28.1)%
5.0337%	6.0%	(5.1)%	(15.7)%	(32.5)%	(49.2)%
5.6000% and above ..	**	**	**	**	**

SECURITY GROUP 16

Sensitivity of Class NS to Prepayments Assumed Price 3.75%*

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>480%</u>	<u>750%</u>	<u>1,000%</u>
3.55806%	53.9%	44.4%	35.7%	22.1%	9.2%
4.55806%	22.7%	12.1%	2.2%	(13.2)%	(28.2)%
5.07903%	6.6%	(4.6)%	(15.3)%	(32.4)%	(49.4)%
5.60000% 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 GROUPS 15 AND 16

Sensitivity of Class SN to Prepayments Assumed Price 4.0%*

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>480%</u>	<u>750%</u>	<u>1,000%</u>
3.51273%	51.3%	41.9%	33.2%	19.9%	7.3%
4.51273%	22.0%	11.6%	1.8%	(13.5)%	(28.2)%
5.05637%	6.3%	(4.9)%	(15.5)%	(32.5)%	(49.3)%
5.60000% 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.

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 Elections

In the opinion of Cleary Gottlieb Steen & Hamilton LLP, the Trust will constitute a Double REMIC Series for United States federal income tax purposes. Separate REMIC elections will be made for the Pooling REMIC and the Issuing REMIC.

Regular Securities

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

The Principal Only, 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 and 6	200%
2 and 10	300%
3	290%
4	278%
5 and 7	250%
8, 12 and 14	400%
9	450%
11 and 13	150%
15 and 16	480%

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 Compounded 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 RR Securities will represent the beneficial ownership of the Residual Interest in the Pooling REMIC and the beneficial ownership of the Residual Interest in the Issuing 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 REMICs, and these requirements will continue until there are no outstanding regular interests in the respective Trust REMICs. 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 REMICs 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.

OID accruals on the Underlying Certificates will be computed using the same prepayment assumption as set forth under “Certain United States Federal Income Tax Consequences — Regular Securities” in this Supplement.

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, if any, from (1) March 1, 2023 on the Fixed Rate and Delay Classes and (2) March 20, 2023 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					Final Distribution Date(4)
	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	
Security Group 2								
Combination 1								
SD	\$ 18,224,996	SC	\$ 18,224,996	NTL(PT)	(5)	INV/IO	38383XCS1	March 2053
SI	18,224,996							
Combination 2								
FC	\$ 18,224,996	FD	\$ 18,224,996	PT	(5)	FLT	38383XCT9	March 2053
SI	18,224,996							
Security Group 3								
Combination 3(6)								
K	\$ 22,191,000	KA	\$ 25,034,000	PAC I/AD	5.00%	FIX	38383XCU6	November 2052
KY	2,843,000	KB	25,034,000	PAC I/AD	4.75	FIX	38383XCV4	November 2052
		KC	25,034,000	PAC I/AD	4.50	FIX	38383XCW2	November 2052
		KD	25,034,000	PAC I/AD	4.25	FIX	38383XCX0	November 2052
		KE	25,034,000	PAC I/AD	4.00	FIX	38383XCX8	November 2052
		KG	10,013,600	PAC I/AD	6.50	FIX	38383XCZ5	November 2052
		KH	11,126,222	PAC I/AD	6.25	FIX	38383XDA9	November 2052
		KI	3,851,384	NTL(PAC I/AD)	6.50	FIX/IO	38383XDB7	November 2052
		KJ	12,517,000	PAC I/AD	6.00	FIX	38383XDC5	November 2052
		KL	14,305,142	PAC I/AD	5.75	FIX	38383XDD3	November 2052
		KM	16,689,333	PAC I/AD	5.50	FIX	38383XDE1	November 2052
		KN	20,027,200	PAC I/AD	5.25	FIX	38383XDF8	November 2052

REMIC Securities

MX Securities

Class	Original Class		Related MX Class	Maximum Original Class		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)	or Class Notional Balance(2)					
Combination 4(6) K	\$ 22,191,000		CD	\$ 8,876,400		PAC I/AD	6.50%	FIX	38383XDG6	November 2051
			CE	9,862,666		PAC I/AD	6.25	FIX	38383XDH4	November 2051
			CG	11,095,500		PAC I/AD	6.00	FIX	38383XDJ0	November 2051
			CH	12,680,571		PAC I/AD	5.75	FIX	38383XDK7	November 2051
			CI	3,414,000		NTL(PAC I/AD)	6.50	FIX/IO	38383XDL5	November 2051
			CJ	14,794,000		PAC I/AD	5.50	FIX	38383XDM3	November 2051
			CK	17,752,800		PAC I/AD	5.25	FIX	38383XDN1	November 2051
			CL	22,191,000		PAC I/AD	4.75	FIX	38383XDP6	November 2051
			CM	22,191,000		PAC I/AD	4.50	FIX	38383XDQ4	November 2051
			CN	22,191,000		PAC I/AD	4.25	FIX	38383XDR2	November 2051
Combination 5 K KQ KU KY KZ QZ ZQ	\$ 22,191,000		CP	22,191,000		PAC I/AD	4.00	FIX	38383XDS0	November 2051
			KT	\$ 33,333,334		PT	5.00%	FIX	38383XDT8	March 2053
	5,491,000									
	2,562,334									
	2,843,000									
	244,000									
	1,000									
1,000										

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)	or Class Notional Balance(2)						
Security Group 5 Combination 6(6) P PN	\$ 25,997,000		DA	\$ 60,597,000		PAC/AD	6.50%	FIX	38383XDU5	January 2053	
	34,600,000		DB	60,597,000		PAC/AD	6.25	FIX	38383XDV3	January 2053	
			DC	60,597,000		PAC/AD	6.00	FIX	38383XDW1	January 2053	
			DE	60,597,000		PAC/AD	5.75	FIX	38383XDX9	January 2053	
			DG	60,597,000		PAC/AD	5.50	FIX	38383XDY7	January 2053	
			DH	60,597,000		PAC/AD	5.25	FIX	38383XDZ4	January 2053	
			DI	23,306,538		NTL(PAC/AD)	6.50	FIX/IO	38383XEA8	January 2053	
			DJ	60,597,000		PAC/AD	5.00	FIX	38383XEB6	January 2053	
			DK	60,597,000		PAC/AD	4.75	FIX	38383XEC4	January 2053	
			DL	60,597,000		PAC/AD	4.50	FIX	38383XED2	January 2053	
			DM	60,597,000		PAC/AD	4.25	FIX	38383XEE0	January 2053	
			DN	60,597,000		PAC/AD	4.00	FIX	38383XEF7	January 2053	
	Combination 7(6) PN	\$ 95,291,000		JA	\$ 95,291,000		PAC/AD	6.25%	FIX	38383XEG5	January 2053
				JB	95,291,000		PAC/AD	6.00	FIX	38383XEH3	January 2053
			JC	95,291,000		PAC/AD	5.75	FIX	38383XEJ9	January 2053	
			JD	95,291,000		PAC/AD	5.50	FIX	38383XEK6	January 2053	
			JE	95,291,000		PAC/AD	5.25	FIX	38383XEL4	January 2053	
			JG	95,291,000		PAC/AD	5.00	FIX	38383XEM2	January 2053	
			JH	95,291,000		PAC/AD	4.75	FIX	38383XEN0	January 2053	
			JI	36,650,384		NTL(PAC/AD)	6.50	FIX/IO	38383XEP5	January 2053	
			JK	95,291,000		PAC/AD	4.50	FIX	38383XEQ3	January 2053	
			JL	95,291,000		PAC/AD	4.25	FIX	38383XER1	January 2053	
			JM	95,291,000		PAC/AD	4.00	FIX	38383XES9	January 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)	Class Notional Balance(2)						
Combination 8(6) P PN	\$ 25,997,000		PA	\$121,288,000		PAC/AD	6.50%	FIX	38383XET7	January 2053	
	95,291,000		PB	121,288,000		PAC/AD	6.25	FIX	38383XEU4	January 2053	
			PC	121,288,000		PAC/AD	6.00	FIX	38383XEV2	January 2053	
			PD	121,288,000		PAC/AD	5.75	FIX	38383XEW0	January 2053	
			PE	121,288,000		PAC/AD	5.50	FIX	38383XEX8	January 2053	
			PG	121,288,000		PAC/AD	5.25	FIX	38383XEY6	January 2053	
			PH	121,288,000		PAC/AD	5.00	FIX	38383XEZ3	January 2053	
			PI	46,649,230		NTL(PAC/AD)	6.50	FIX/IO	38383XFA7	January 2053	
			PJ	121,288,000		PAC/AD	4.75	FIX	38383XFB5	January 2053	
			PK	121,288,000		PAC/AD	4.50	FIX	38383XFC3	January 2053	
			PL	121,288,000		PAC/AD	4.25	FIX	38383XFD1	January 2053	
			PM	121,288,000		PAC/AD	4.00	FIX	38383XFE9	January 2053	
	Security Group 6 Combination 9(6) AP	\$ 24,884,000		AC	\$ 24,884,000		PAC/AD	4.50%	FIX	38383XFF6	April 2051
				AD	24,884,000		PAC/AD	4.75	FIX	38383XFG4	April 2051
			AE	16,589,333		PAC/AD	5.25	FIX	38383XFH2	April 2051	
			AG	12,442,000		PAC/AD	5.50	FIX	38383XFJ8	April 2051	
			AH	9,953,600		PAC/AD	5.75	FIX	38383XFK5	April 2051	
			AI	2,073,666		NTL(PAC/AD)	6.00	FIX/IO	38383XFL3	April 2051	
			AJ	8,294,666		PAC/AD	6.00	FIX	38383XFM1	April 2051	
			AK	7,109,714		PAC/AD	6.25	FIX	38383XFN9	April 2051	
			AL	6,221,000		PAC/AD	6.50	FIX	38383XFP4	April 2051	

REMIC Securities

MX Securities

Class	Original Class		Related MX Class	Maximum Original Class		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 10(6)										
AN	\$ 3,505,000		M	\$ 28,389,000		PAC/AD	5.00%	FIX	38383XFQ2	August 2052
AP	24,884,000		MA	28,389,000		PAC/AD	4.50	FIX	38383XFR0	August 2052
			MB	28,389,000		PAC/AD	4.75	FIX	38383XFS8	August 2052
			MC	18,926,000		PAC/AD	5.25	FIX	38383XFT6	August 2052
			MD	14,194,500		PAC/AD	5.50	FIX	38383XFU3	August 2052
			ME	11,355,600		PAC/AD	5.75	FIX	38383XV1	August 2052
			MG	9,463,000		PAC/AD	6.00	FIX	38383XFW9	August 2052
			MH	8,111,142		PAC/AD	6.25	FIX	38383XFX7	August 2052
			MI	2,365,750		NTL(PAC/AD)	6.00	FIX/IO	38383XFY5	August 2052
			MJ	7,097,250		PAC/AD	6.50	FIX	38383XFZ2	August 2052
Security Groups 2 and 6										
Combination 11(7)										
SA	\$100,000,000		SK	\$160,517,333		NTL(PT/PAC/AD)	(5)	INV/IO	38383XGA6	March 2053
SP	60,517,333									
Security Group 8										
Combination 12										
ST	\$ 83,400,000		SM	\$ 83,400,000		NTL(SCH/AD)	(5)	INV/IO	38383XGB4	March 2053
TI	83,400,000									
Security Group 13										
Combination 13										
IO	\$ 41,823,614		WA(8)	\$ 10,504,450		SC/PT	(5)	WAC/DLY	38383XGC2	February 2053
PO	10,504,450									
Security Groups 8 and 14										
Combination 14(7)										
S	\$115,000,000		SE	\$198,400,000		NTL(PT/SCH/AD)	(5)	INV/IO	38383XGD0	March 2053
ST	83,400,000									
Security Groups 14 and 16										
Combination 15(7)										
FJ	\$ 50,000,000		F	\$100,000,000		PT	(5)	FLT	38383XGE8	March 2053
NF	50,000,000									

REMIC Securities

MX Securities

Class	Original Class		Related MX Class	Maximum		Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
	Principal Balance or Class Notional Balance	Principal Balance or Class Notional Balance(2)		Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)				

Security Groups 15 and 16

Combination 16(7)

NS	\$ 50,000,000	SN	\$100,000,000	NTL(PT)	(5)	INV/10	38383XGF5	March 2053
PS	50,000,000							

- (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 3, 4, 6, 7, 8, 9 and 10, various subcombinations are permitted. See "*Description of the Securities — Modifications and Exchange*" in the *Base Offering Circular for a discussion of subcombinations*.
- (7) Derived from REMIC classes relating to separate Groups.

- (8) In the event that either (1) the Interest Rate of this MX Class will equal or exceed 1,200% per annum for any Accrual Period or (2) the Class Principal Balance of this MX Class will be reduced to zero on any Distribution Date, the Trustee will, prior to the close of business on the last Business Day of the calendar month immediately preceding the related Distribution Date in the first case, and prior to the related Distribution Date on which the Class Principal Balance of this MX Class would be reduced to zero in the second case, effect a mandatory exchange of this MX Class for its related REMIC Securities and, thereafter, no further exchanges of such REMIC Securities will be permitted.

Schedule II

SCHEDULED PRINCIPAL BALANCES

<u>Distribution Date</u>	<u>Classes K, KY and KZ (in the aggregate)</u>	<u>Classes KQ and QZ (in the aggregate)</u>	<u>Class NQ</u>	<u>Classes P, PN and PZ (in the aggregate)</u>
Initial Balance	\$25,278,000.00	\$5,492,000.00	\$4,479,000.00	\$121,675,000.00
April 2023	25,232,545.17	5,480,811.91	4,463,612.06	121,225,083.66
May 2023	25,178,033.25	5,464,011.37	4,443,847.75	120,731,566.98
June 2023	25,114,478.73	5,441,600.27	4,419,721.72	120,194,550.35
July 2023	25,041,903.47	5,413,592.42	4,391,257.54	119,614,169.02
August 2023	24,960,336.75	5,380,013.61	4,358,487.72	118,990,593.09
September 2023	24,869,815.26	5,340,901.69	4,321,453.72	118,324,027.49
October 2023	24,770,383.09	5,296,306.55	4,280,205.92	117,614,711.86
November 2023	24,662,091.69	5,246,290.13	4,234,803.58	116,862,920.45
December 2023	24,544,999.89	5,190,926.38	4,185,314.74	116,068,961.87
January 2024	24,419,173.81	5,130,301.13	4,131,816.20	115,233,178.90
February 2024	24,284,686.84	5,064,512.04	4,074,393.33	114,355,948.19
March 2024	24,141,619.58	4,993,668.41	4,013,139.96	113,437,679.92
April 2024	23,990,059.74	4,917,891.03	3,948,158.25	112,478,817.46
May 2024	23,830,102.11	4,837,311.91	3,879,558.44	111,479,836.87
June 2024	23,661,848.43	4,752,074.12	3,807,458.70	110,441,246.50
July 2024	23,485,407.30	4,662,331.42	3,731,984.86	109,363,586.43
August 2024	23,300,894.09	4,568,248.03	3,653,270.20	108,247,427.94
September 2024	23,108,430.79	4,469,998.24	3,571,455.14	107,093,372.84
October 2024	22,908,145.90	4,367,766.04	3,486,686.96	105,902,052.90
November 2024	22,700,174.31	4,261,744.74	3,399,119.49	104,674,129.09
December 2024	22,484,657.11	4,152,136.54	3,308,912.78	103,410,290.87
January 2025	22,261,741.47	4,039,152.05	3,216,232.74	102,111,255.40
February 2025	22,031,580.46	3,923,009.83	3,121,250.79	100,777,766.75
March 2025	21,794,332.87	3,803,935.87	3,024,143.45	99,410,595.01
April 2025	21,550,163.07	3,682,163.06	2,925,091.96	98,010,535.43
May 2025	21,299,240.77	3,557,930.65	2,824,281.85	96,578,407.46
June 2025	21,041,740.84	3,431,483.64	2,721,902.54	95,115,053.79
July 2025	20,777,843.12	3,303,072.24	2,620,199.41	93,621,339.40
August 2025	20,507,732.20	3,172,951.23	2,521,115.47	92,137,468.97
September 2025	20,239,957.47	3,046,328.60	2,424,605.16	90,663,342.75
October 2025	19,974,499.18	2,923,140.44	2,330,623.61	89,198,861.73
November 2025	19,711,337.73	2,803,323.82	2,239,126.65	87,743,927.62
December 2025	19,450,453.69	2,686,816.87	2,150,070.77	86,298,442.89
January 2026	19,191,827.81	2,573,558.67	2,063,413.13	84,862,310.75
February 2026	18,935,440.97	2,463,489.30	1,979,111.54	83,435,435.09
March 2026	18,681,274.25	2,356,549.80	1,897,124.45	82,017,720.57
April 2026	18,429,308.85	2,252,682.15	1,817,410.96	80,609,072.51
May 2026	18,179,526.16	2,151,829.28	1,739,930.77	79,209,396.97
June 2026	17,931,907.71	2,053,935.02	1,664,644.24	77,818,600.68
July 2026	17,686,435.17	1,958,944.12	1,591,512.30	76,436,591.08
August 2026	17,443,090.40	1,866,802.22	1,520,496.49	75,063,276.28
September 2026	17,201,855.39	1,777,455.84	1,451,558.95	73,698,565.07
October 2026	16,962,712.29	1,690,852.35	1,384,662.40	72,342,366.93

<u>Distribution Date</u>	<u>Classes K, KY and KZ (in the aggregate)</u>	<u>Classes KQ and QZ (in the aggregate)</u>	<u>Class NQ</u>	<u>Classes P, PN and PZ (in the aggregate)</u>
November 2026	\$16,725,643.38	\$1,606,940.01	\$1,319,770.12	\$ 70,994,591.97
December 2026	16,490,631.11	1,525,667.87	1,256,845.98	69,655,150.98
January 2027	16,257,658.08	1,446,985.85	1,195,854.38	68,323,955.42
February 2027	16,026,707.01	1,370,844.65	1,136,760.30	67,000,917.37
March 2027	15,797,760.81	1,297,195.80	1,079,529.24	65,685,949.56
April 2027	15,570,802.48	1,225,991.61	1,024,127.25	64,378,965.35
May 2027	15,345,815.20	1,157,185.16	970,520.88	63,079,878.75
June 2027	15,122,782.28	1,090,730.31	918,677.22	61,788,604.37
July 2027	14,901,687.18	1,026,581.65	868,563.87	60,505,057.45
August 2027	14,682,513.47	964,694.54	820,148.94	59,229,153.84
September 2027	14,465,244.89	905,025.06	773,401.01	57,960,809.99
October 2027	14,249,865.31	847,530.01	728,289.19	56,699,942.97
November 2027	14,036,358.72	792,166.90	684,783.02	55,446,470.42
December 2027	13,824,709.26	738,893.93	642,852.56	54,200,310.58
January 2028	13,614,901.20	687,670.01	602,468.32	52,961,382.29
February 2028	13,406,918.93	638,454.70	563,601.28	51,729,604.95
March 2028	13,200,746.99	591,208.25	526,222.86	50,504,898.54
April 2028	12,996,370.04	545,891.56	490,304.95	49,298,934.68
May 2028	12,793,772.87	502,466.16	455,819.85	48,121,320.62
June 2028	12,592,940.39	460,894.24	422,740.33	46,971,397.06
July 2028	12,393,857.66	421,138.60	391,039.56	45,848,519.91
August 2028	12,196,509.84	383,162.68	360,691.16	44,752,059.94
September 2028	12,000,882.23	346,930.51	331,669.15	43,681,402.48
October 2028	11,806,960.25	312,406.71	303,947.96	42,635,947.01
November 2028	11,614,729.43	279,556.51	277,502.43	41,615,106.91
December 2028	11,424,175.45	248,345.71	252,307.79	40,618,309.09
January 2029	11,235,284.08	218,740.69	228,339.68	39,644,993.71
February 2029	11,048,041.23	190,708.38	205,574.11	38,694,613.84
March 2029	10,862,432.92	164,216.26	183,987.48	37,766,635.21
April 2029	10,678,445.28	139,263.81	163,556.56	36,860,535.88
May 2029	10,496,064.58	116,558.83	144,298.37	35,975,805.99
June 2029	10,315,277.19	96,045.01	126,747.28	35,111,947.45
July 2029	10,136,069.58	77,667.16	110,862.28	34,268,473.68
August 2029	9,958,428.37	61,371.22	96,603.13	33,444,909.36
September 2029	9,782,340.25	47,104.22	83,930.36	32,640,790.15
October 2029	9,607,792.06	34,814.30	72,805.30	31,855,662.48
November 2029	9,434,770.73	24,450.61	63,190.02	31,089,083.23
December 2029	9,263,263.31	15,963.39	55,047.32	30,340,619.54
January 2030	9,093,256.94	9,303.85	48,340.75	29,609,848.60
February 2030	8,924,738.90	4,424.23	43,034.56	28,896,357.33
March 2030	8,757,696.53	1,277.75	39,093.70	28,199,742.25
April 2030	8,592,117.34	0.00	36,483.82	27,519,609.21
May 2030	8,428,172.13	0.00	35,171.23	26,855,573.16
June 2030	8,267,263.83	0.00	35,122.92	26,207,258.01
July 2030	8,109,337.17	0.00	35,120.30	25,574,296.34
August 2030	7,954,337.90	0.00	35,117.66	24,956,329.26
September 2030	7,802,212.71	0.00	35,115.01	24,353,006.18

<u>Distribution Date</u>	<u>Classes K, KY and KZ (in the aggregate)</u>	<u>Classes KQ and QZ (in the aggregate)</u>	<u>Class NQ</u>	<u>Classes P, PN and PZ (in the aggregate)</u>
October 2030	\$ 7,652,909.29	\$ 0.00	\$ 35,112.35	\$ 23,763,984.64
November 2030	7,506,376.25	0.00	35,109.68	23,188,930.13
December 2030	7,362,563.13	0.00	35,107.00	22,627,515.86
January 2031	7,221,420.37	0.00	35,104.30	22,079,422.63
February 2031	7,082,899.32	0.00	35,101.60	21,544,338.65
March 2031	6,946,952.18	0.00	35,098.88	21,021,959.35
April 2031	6,813,532.05	0.00	35,096.15	20,511,987.22
May 2031	6,682,592.83	0.00	35,093.41	20,014,131.65
June 2031	6,554,089.28	0.00	35,090.66	19,528,108.78
July 2031	6,427,976.98	0.00	35,087.90	19,053,641.32
August 2031	6,304,212.27	0.00	35,085.13	18,590,458.43
September 2031	6,182,752.33	0.00	35,082.34	18,138,295.55
October 2031	6,063,555.08	0.00	35,079.55	17,696,894.26
November 2031	5,946,579.20	0.00	35,076.74	17,266,002.14
December 2031	5,831,784.12	0.00	35,073.92	16,845,372.62
January 2032	5,719,130.01	0.00	35,071.09	16,434,764.88
February 2032	5,608,577.74	0.00	35,021.62	16,033,943.68
March 2032	5,500,088.90	0.00	34,894.14	15,642,679.24
April 2032	5,393,625.77	0.00	34,758.03	15,260,747.13
May 2032	5,289,151.32	0.00	34,613.65	14,887,928.13
June 2032	5,186,629.16	0.00	34,461.33	14,524,008.11
July 2032	5,086,023.59	0.00	34,301.41	14,168,777.93
August 2032	4,987,299.54	0.00	34,134.21	13,822,033.31
September 2032	4,890,422.56	0.00	33,960.04	13,483,574.71
October 2032	4,795,358.84	0.00	33,779.22	13,153,207.24
November 2032	4,702,075.18	0.00	33,592.02	12,830,740.55
December 2032	4,610,538.97	0.00	33,398.76	12,515,988.70
January 2033	4,520,718.20	0.00	33,199.69	12,208,770.10
February 2033	4,432,581.44	0.00	32,995.11	11,908,907.38
March 2033	4,346,097.80	0.00	32,785.26	11,616,227.29
April 2033	4,261,236.99	0.00	32,570.42	11,330,560.61
May 2033	4,177,969.23	0.00	32,350.82	11,051,742.09
June 2033	4,096,265.31	0.00	32,126.71	10,779,610.31
July 2033	4,016,096.53	0.00	31,898.32	10,514,007.60
August 2033	3,937,434.71	0.00	31,665.89	10,254,779.98
September 2033	3,860,252.19	0.00	31,429.63	10,001,777.07
October 2033	3,784,521.79	0.00	31,189.76	9,754,851.96
November 2033	3,710,216.84	0.00	30,946.49	9,513,861.20
December 2033	3,637,311.16	0.00	30,700.03	9,278,664.67
January 2034	3,565,779.02	0.00	30,450.56	9,049,125.53
February 2034	3,495,595.16	0.00	30,198.27	8,825,110.10
March 2034	3,426,734.81	0.00	29,943.36	8,606,487.87
April 2034	3,359,173.60	0.00	29,686.01	8,393,131.34
May 2034	3,292,887.64	0.00	29,426.38	8,184,915.99
June 2034	3,227,853.46	0.00	29,164.64	7,981,720.22
July 2034	3,164,048.00	0.00	28,900.96	7,783,425.27
August 2034	3,101,448.64	0.00	28,635.50	7,589,915.14

<u>Distribution Date</u>	<u>Classes K, KY and KZ (in the aggregate)</u>	<u>Classes KQ and QZ (in the aggregate)</u>	<u>Class NQ</u>	<u>Classes P, PN and PZ (in the aggregate)</u>
September 2034	\$ 3,040,033.16	\$ 0.00	\$ 28,368.40	\$ 7,401,076.55
October 2034	2,979,779.74	0.00	28,099.82	7,216,798.87
November 2034	2,920,666.98	0.00	27,829.90	7,036,974.05
December 2034	2,862,673.82	0.00	27,558.78	6,861,496.57
January 2035	2,805,779.63	0.00	27,286.59	6,690,263.38
February 2035	2,749,964.13	0.00	27,013.46	6,523,173.83
March 2035	2,695,207.42	0.00	26,739.52	6,360,129.64
April 2035	2,641,489.94	0.00	26,464.90	6,201,034.81
May 2035	2,588,792.50	0.00	26,189.70	6,045,795.61
June 2035	2,537,096.28	0.00	25,914.04	5,894,320.49
July 2035	2,486,382.75	0.00	25,638.03	5,746,520.04
August 2035	2,436,633.77	0.00	25,361.78	5,602,306.96
September 2035	2,387,831.49	0.00	25,085.39	5,461,595.99
October 2035	2,339,958.42	0.00	24,808.96	5,324,303.85
November 2035	2,292,997.34	0.00	24,532.58	5,190,349.24
December 2035	2,246,931.40	0.00	24,256.34	5,059,652.74
January 2036	2,201,744.01	0.00	23,980.34	4,932,136.82
February 2036	2,157,418.90	0.00	23,704.66	4,807,725.75
March 2036	2,113,940.11	0.00	23,429.38	4,686,345.57
April 2036	2,071,291.94	0.00	23,154.59	4,567,924.07
May 2036	2,029,459.00	0.00	22,880.35	4,452,390.74
June 2036	1,988,426.17	0.00	22,606.74	4,339,676.70
July 2036	1,948,178.61	0.00	22,333.83	4,229,714.72
August 2036	1,908,701.75	0.00	22,061.70	4,122,439.13
September 2036	1,869,981.27	0.00	21,790.40	4,017,785.80
October 2036	1,832,003.13	0.00	21,519.99	3,915,692.11
November 2036	1,794,753.55	0.00	21,250.55	3,816,096.93
December 2036	1,758,218.98	0.00	20,982.12	3,718,940.54
January 2037	1,722,386.13	0.00	20,714.76	3,624,164.65
February 2037	1,687,241.95	0.00	20,448.53	3,531,712.32
March 2037	1,652,773.62	0.00	20,183.47	3,441,527.96
April 2037	1,618,968.58	0.00	19,919.64	3,353,557.29
May 2037	1,585,814.48	0.00	19,657.08	3,267,747.30
June 2037	1,553,299.18	0.00	19,395.83	3,184,046.24
July 2037	1,521,410.79	0.00	19,135.94	3,102,403.58
August 2037	1,490,137.62	0.00	18,877.45	3,022,769.96
September 2037	1,459,468.21	0.00	18,620.40	2,945,097.21
October 2037	1,429,391.29	0.00	18,364.83	2,869,338.27
November 2037	1,399,895.80	0.00	18,110.76	2,795,447.21
December 2037	1,370,970.89	0.00	17,858.23	2,723,379.18
January 2038	1,342,605.91	0.00	17,607.28	2,653,090.39
February 2038	1,314,790.40	0.00	17,357.93	2,584,538.06
March 2038	1,287,514.08	0.00	17,110.22	2,517,680.45
April 2038	1,260,766.88	0.00	16,864.16	2,452,476.80
May 2038	1,234,538.90	0.00	16,619.80	2,388,887.30
June 2038	1,208,820.42	0.00	16,377.13	2,326,873.09
July 2038	1,183,601.91	0.00	16,136.21	2,266,396.23

<u>Distribution Date</u>	<u>Classes K, KY and KZ (in the aggregate)</u>	<u>Classes KQ and QZ (in the aggregate)</u>	<u>Class NQ</u>	<u>Classes P, PN and PZ (in the aggregate)</u>
August 2038	\$ 1,158,874.01	\$ 0.00	\$ 15,897.03	\$ 2,207,419.67
September 2038	1,134,627.51	0.00	15,659.62	2,149,907.25
October 2038	1,110,853.40	0.00	15,424.01	2,093,823.64
November 2038	1,087,542.83	0.00	15,190.20	2,039,134.37
December 2038	1,064,687.09	0.00	14,958.22	1,985,805.79
January 2039	1,042,277.65	0.00	14,728.08	1,933,805.02
February 2039	1,020,306.13	0.00	14,499.78	1,883,099.97
March 2039	998,764.31	0.00	14,273.36	1,833,659.34
April 2039	977,644.10	0.00	14,048.81	1,785,452.52
May 2039	956,937.59	0.00	13,826.15	1,738,449.67
June 2039	936,637.00	0.00	13,605.38	1,692,621.63
July 2039	916,734.68	0.00	13,386.53	1,647,939.94
August 2039	897,223.13	0.00	13,169.58	1,604,376.83
September 2039	878,095.01	0.00	12,954.55	1,561,905.18
October 2039	859,343.08	0.00	12,741.45	1,520,498.49
November 2039	840,960.25	0.00	12,530.28	1,480,130.93
December 2039	822,939.56	0.00	12,321.05	1,440,777.26
January 2040	805,274.17	0.00	12,113.75	1,402,412.84
February 2040	787,957.39	0.00	11,908.39	1,365,013.63
March 2040	770,982.62	0.00	11,704.97	1,328,556.14
April 2040	754,343.40	0.00	11,503.50	1,293,017.47
May 2040	738,033.40	0.00	11,303.98	1,258,375.23
June 2040	722,046.37	0.00	11,106.39	1,224,607.59
July 2040	706,376.22	0.00	10,910.75	1,191,693.23
August 2040	691,016.93	0.00	10,717.05	1,159,611.34
September 2040	675,962.63	0.00	10,525.28	1,128,341.61
October 2040	661,207.52	0.00	10,335.46	1,097,864.19
November 2040	646,745.95	0.00	10,147.57	1,068,159.74
December 2040	632,572.33	0.00	9,961.60	1,039,209.37
January 2041	618,681.21	0.00	9,777.56	1,010,994.62
February 2041	605,067.21	0.00	9,595.44	983,497.49
March 2041	591,725.08	0.00	9,415.24	956,700.42
April 2041	578,649.64	0.00	9,236.94	930,586.24
May 2041	565,835.82	0.00	9,060.55	905,138.22
June 2041	553,278.63	0.00	8,886.05	880,340.02
July 2041	540,973.21	0.00	8,713.44	856,175.67
August 2041	528,914.73	0.00	8,542.71	832,629.62
September 2041	517,098.51	0.00	8,373.86	809,686.67
October 2041	505,519.91	0.00	8,206.87	787,331.99
November 2041	494,174.41	0.00	8,041.74	765,551.09
December 2041	483,057.54	0.00	7,878.45	744,329.85
January 2042	472,164.95	0.00	7,717.01	723,654.49
February 2042	461,492.35	0.00	7,557.39	703,511.53
March 2042	451,035.52	0.00	7,399.59	683,887.85
April 2042	440,790.33	0.00	7,243.61	664,770.63
May 2042	430,752.74	0.00	7,089.42	646,147.34
June 2042	420,918.76	0.00	6,937.02	628,005.79

<u>Distribution Date</u>	<u>Classes K, KY and KZ (in the aggregate)</u>	<u>Classes KQ and QZ (in the aggregate)</u>	<u>Class NQ</u>	<u>Classes P, PN and PZ (in the aggregate)</u>
July 2042	\$ 411,284.50	\$ 0.00	\$ 6,786.39	\$ 610,334.06
August 2042	401,846.11	0.00	6,637.54	593,120.50
September 2042	392,599.84	0.00	6,490.44	576,353.78
October 2042	383,541.99	0.00	6,345.08	560,022.81
November 2042	374,668.95	0.00	6,201.46	544,116.79
December 2042	365,977.16	0.00	6,059.55	528,625.16
January 2043	357,463.14	0.00	5,919.35	513,537.62
February 2043	349,123.45	0.00	5,780.85	498,844.14
March 2043	340,954.73	0.00	5,644.04	484,534.91
April 2043	332,953.71	0.00	5,508.89	470,600.36
May 2043	325,117.12	0.00	5,375.40	457,031.15
June 2043	317,441.81	0.00	5,243.56	443,818.18
July 2043	309,924.65	0.00	5,113.36	430,952.54
August 2043	302,562.58	0.00	4,984.77	418,425.58
September 2043	295,352.61	0.00	4,857.79	406,228.81
October 2043	288,291.80	0.00	4,732.40	394,353.99
November 2043	281,377.24	0.00	4,608.59	382,793.05
December 2043	274,606.11	0.00	4,486.35	371,538.13
January 2044	267,975.61	0.00	4,365.67	360,581.55
February 2044	261,483.03	0.00	4,246.52	349,915.83
March 2044	255,125.69	0.00	4,128.90	339,533.66
April 2044	248,900.94	0.00	4,012.80	329,427.91
May 2044	242,806.22	0.00	3,898.19	319,591.64
June 2044	236,838.98	0.00	3,785.07	310,018.04
July 2044	230,996.75	0.00	3,673.42	300,700.51
August 2044	225,277.09	0.00	3,563.23	291,632.58
September 2044	219,677.61	0.00	3,454.49	282,807.95
October 2044	214,195.95	0.00	3,347.17	274,220.48
November 2044	208,829.82	0.00	3,241.27	265,864.16
December 2044	203,576.95	0.00	3,136.78	257,733.14
January 2045	198,435.14	0.00	3,033.67	249,821.72
February 2045	193,402.19	0.00	2,931.94	242,124.32
March 2045	188,475.99	0.00	2,831.57	234,635.51
April 2045	183,654.42	0.00	2,732.55	227,350.00
May 2045	178,935.45	0.00	2,634.87	220,262.60
June 2045	174,317.04	0.00	2,538.50	213,368.28
July 2045	169,797.23	0.00	2,443.44	206,662.11
August 2045	165,374.07	0.00	2,349.68	200,139.30
September 2045	161,045.66	0.00	2,257.19	193,795.16
October 2045	156,810.13	0.00	2,165.97	187,625.12
November 2045	152,665.65	0.00	2,076.00	181,624.74
December 2045	148,610.41	0.00	1,987.27	175,789.66
January 2046	144,642.65	0.00	1,899.76	170,115.65
February 2046	140,760.64	0.00	1,813.46	164,598.57
March 2046	136,962.69	0.00	1,728.36	159,234.39
April 2046	133,247.13	0.00	1,644.45	154,019.18
May 2046	129,612.31	0.00	1,561.71	148,949.09

<u>Distribution Date</u>	<u>Classes K, KY and KZ (in the aggregate)</u>	<u>Classes KQ and QZ (in the aggregate)</u>	<u>Class NQ</u>	<u>Classes P, PN and PZ (in the aggregate)</u>
June 2046	\$ 126,056.64	\$ 0.00	\$ 1,480.12	\$ 144,020.40
July 2046	122,578.55	0.00	1,399.68	139,229.44
August 2046	119,176.48	0.00	1,320.37	134,572.67
September 2046	115,848.94	0.00	1,242.18	130,046.60
October 2046	112,594.42	0.00	1,165.09	125,647.86
November 2046	109,411.48	0.00	1,089.10	121,373.14
December 2046	106,298.68	0.00	1,014.18	117,219.22
January 2047	103,254.62	0.00	940.33	113,182.97
February 2047	100,277.92	0.00	867.54	109,261.31
March 2047	97,367.24	0.00	795.78	105,451.28
April 2047	94,521.25	0.00	725.06	101,749.95
May 2047	91,738.66	0.00	655.35	98,154.48
June 2047	89,018.18	0.00	586.64	94,662.11
July 2047	86,358.58	0.00	518.92	91,270.13
August 2047	83,758.62	0.00	452.18	87,975.92
September 2047	81,217.09	0.00	386.41	84,776.91
October 2047	78,732.83	0.00	321.59	81,670.59
November 2047	76,304.68	0.00	257.71	78,654.53
December 2047	73,931.50	0.00	194.76	75,726.34
January 2048	71,612.17	0.00	132.73	72,883.71
February 2048	69,345.61	0.00	71.61	70,124.37
March 2048	67,130.74	0.00	11.38	67,446.12
April 2048	64,966.52	0.00	0.00	64,846.81
May 2048	62,851.91	0.00	0.00	62,324.34
June 2048	60,785.91	0.00	0.00	59,876.68
July 2048	58,767.53	0.00	0.00	57,501.82
August 2048	56,795.78	0.00	0.00	55,197.83
September 2048	54,869.72	0.00	0.00	52,962.82
October 2048	52,988.42	0.00	0.00	50,794.94
November 2048	51,150.95	0.00	0.00	48,692.38
December 2048	49,356.43	0.00	0.00	46,653.41
January 2049	47,603.96	0.00	0.00	44,676.31
February 2049	45,892.68	0.00	0.00	42,759.41
March 2049	44,221.74	0.00	0.00	40,901.09
April 2049	42,590.32	0.00	0.00	39,099.77
May 2049	40,997.59	0.00	0.00	37,353.90
June 2049	39,442.76	0.00	0.00	35,661.99
July 2049	37,925.05	0.00	0.00	34,022.57
August 2049	36,443.68	0.00	0.00	32,434.21
September 2049	34,997.89	0.00	0.00	30,895.52
October 2049	33,586.96	0.00	0.00	29,405.14
November 2049	32,210.15	0.00	0.00	27,961.76
December 2049	30,866.75	0.00	0.00	26,564.09
January 2050	29,556.08	0.00	0.00	25,210.86
February 2050	28,277.43	0.00	0.00	23,900.87
March 2050	27,030.15	0.00	0.00	22,632.91
April 2050	25,813.57	0.00	0.00	21,405.84

<u>Distribution Date</u>	<u>Classes K, KY and KZ (in the aggregate)</u>	<u>Classes KQ and QZ (in the aggregate)</u>	<u>Class NQ</u>	<u>Classes P, PN and PZ (in the aggregate)</u>
May 2050	\$ 24,627.05	\$ 0.00	\$ 0.00	\$ 20,218.51
June 2050	23,469.96	0.00	0.00	19,069.82
July 2050	22,341.68	0.00	0.00	17,958.71
August 2050	21,241.60	0.00	0.00	16,884.12
September 2050	20,169.13	0.00	0.00	15,845.04
October 2050	19,123.68	0.00	0.00	14,840.48
November 2050	18,104.68	0.00	0.00	13,869.46
December 2050	17,111.57	0.00	0.00	12,931.06
January 2051	16,143.80	0.00	0.00	12,024.34
February 2051	15,200.83	0.00	0.00	11,148.42
March 2051	14,282.13	0.00	0.00	10,302.42
April 2051	13,387.18	0.00	0.00	9,485.50
May 2051	12,515.47	0.00	0.00	8,696.84
June 2051	11,666.51	0.00	0.00	7,935.62
July 2051	10,839.80	0.00	0.00	7,201.07
August 2051	10,034.88	0.00	0.00	6,492.42
September 2051	9,251.26	0.00	0.00	5,808.92
October 2051	8,488.50	0.00	0.00	5,149.87
November 2051	7,746.13	0.00	0.00	4,514.54
December 2051	7,023.72	0.00	0.00	3,902.26
January 2052	6,320.83	0.00	0.00	3,312.36
February 2052	5,637.04	0.00	0.00	2,744.19
March 2052	4,971.94	0.00	0.00	2,197.11
April 2052	4,325.11	0.00	0.00	1,670.51
May 2052	3,696.15	0.00	0.00	1,163.79
June 2052	3,084.68	0.00	0.00	676.36
July 2052	2,490.31	0.00	0.00	207.65
August 2052	1,912.66	0.00	0.00	0.00
September 2052	1,351.37	0.00	0.00	0.00
October 2052	806.07	0.00	0.00	0.00
November 2052	276.41	0.00	0.00	0.00
December 2052 and thereafter	0.00	0.00	0.00	0.00

<u>Distribution Date</u>	<u>Classes AN, AP, FP and MY (in the aggregate)</u>	<u>Class LQ</u>	<u>Class FM</u>
Initial Balance	\$90,776,000.00	\$3,343,000.00	\$83,400,000.00
April 2023	90,556,994.96	3,342,993.47	83,185,468.24
May 2023	90,312,423.32	3,332,019.33	82,652,735.08
June 2023	90,042,330.60	3,317,815.95	82,067,850.46
July 2023	89,746,780.36	3,300,457.88	81,465,410.82
August 2023	89,425,854.22	3,279,964.80	80,741,717.96
September 2023	89,079,651.85	3,256,362.42	79,104,809.65
October 2023	88,708,290.94	3,229,682.42	75,778,107.75
November 2023	88,311,907.12	3,199,962.47	70,670,258.73
December 2023	87,890,653.93	3,167,246.15	67,636,561.75
January 2024	87,444,702.68	3,131,582.93	65,560,237.28
February 2024	86,974,242.36	3,093,028.06	63,736,738.08
March 2024	86,479,479.48	3,051,642.52	62,175,366.94
April 2024	85,960,637.89	3,007,492.91	60,680,181.21
May 2024	85,417,958.67	2,960,651.36	59,176,144.20
June 2024	84,851,699.82	2,911,195.35	57,741,097.17
July 2024	84,262,136.13	2,859,207.61	56,487,856.18
August 2024	83,649,558.86	2,804,775.98	55,202,546.05
September 2024	83,014,275.51	2,747,993.20	53,977,931.49
October 2024	82,356,609.54	2,688,956.76	52,879,177.28
November 2024	81,676,900.04	2,627,768.70	51,732,832.51
December 2024	80,975,501.40	2,564,535.41	50,736,104.49
January 2025	80,252,782.97	2,499,367.41	49,699,404.70
February 2025	79,509,128.74	2,432,379.11	48,733,002.24
March 2025	78,744,936.86	2,363,706.38	47,832,944.44
April 2025	77,960,619.33	2,293,470.08	46,856,554.53
May 2025	77,156,601.56	2,221,794.28	45,847,483.40
June 2025	76,333,321.88	2,149,006.01	44,835,576.23
July 2025	75,491,231.17	2,075,391.42	43,826,695.49
August 2025	74,630,792.34	2,001,780.61	42,813,076.41
September 2025	73,775,743.09	1,929,939.82	41,863,369.66
October 2025	72,926,038.51	1,859,840.68	40,953,475.03
November 2025	72,081,634.02	1,791,455.22	40,051,214.89
December 2025	71,242,485.33	1,724,755.87	39,284,656.64
January 2026	70,408,548.45	1,659,715.44	38,447,126.62
February 2026	69,579,779.66	1,596,307.09	37,743,561.81
March 2026	68,756,135.57	1,534,504.39	37,073,384.29
April 2026	67,937,573.06	1,474,281.26	36,313,317.31
May 2026	67,124,049.29	1,415,611.97	35,528,254.23
June 2026	66,315,521.72	1,358,471.18	34,764,959.15
July 2026	65,511,948.08	1,302,833.88	33,950,795.01
August 2026	64,713,286.40	1,248,675.43	33,161,523.23
September 2026	63,919,494.97	1,195,971.50	32,422,283.97
October 2026	63,130,532.36	1,144,698.12	31,718,287.08
November 2026	62,346,357.41	1,094,831.69	31,042,635.26
December 2026	61,566,929.26	1,046,348.88	30,429,157.60
January 2027	60,792,207.28	999,226.73	29,778,751.24

<u>Distribution Date</u>	<u>Classes AN, AP, FP and MY (in the aggregate)</u>	<u>Class LQ</u>	<u>Class FM</u>
February 2027	\$60,022,151.14	\$ 953,442.58	\$29,253,462.94
March 2027	59,256,720.75	908,974.11	28,722,469.35
April 2027	58,495,876.30	865,799.29	28,099,683.71
May 2027	57,739,578.25	823,896.42	27,455,505.70
June 2027	56,987,787.30	783,244.12	26,821,394.96
July 2027	56,240,464.41	743,821.25	26,138,480.97
August 2027	55,497,570.81	705,607.04	25,496,892.70
September 2027	54,759,067.96	668,580.97	24,859,169.60
October 2027	54,024,917.61	632,722.84	24,273,024.36
November 2027	53,295,081.71	598,012.73	23,728,661.54
December 2027	52,569,522.50	564,430.98	23,205,594.31
January 2028	51,848,202.44	531,958.23	22,681,732.26
February 2028	51,131,084.24	500,575.39	22,244,182.21
March 2028	50,418,130.87	470,263.64	21,799,228.81
April 2028	49,709,305.51	441,004.44	21,276,819.96
May 2028	49,004,571.59	412,779.52	20,778,993.80
June 2028	48,303,892.79	385,570.84	20,213,927.86
July 2028	47,607,233.00	359,360.64	19,642,279.39
August 2028	46,914,556.37	334,131.42	19,124,331.30
September 2028	46,225,827.24	309,865.93	18,578,086.30
October 2028	45,541,010.23	286,547.14	18,107,378.94
November 2028	44,860,070.15	264,158.31	17,644,540.50
December 2028	44,182,972.04	242,682.90	17,212,712.91
January 2029	43,509,681.17	222,104.64	16,793,083.40
February 2029	42,840,163.03	202,407.49	16,422,163.31
March 2029	42,174,383.34	183,575.61	16,063,970.64
April 2029	41,512,308.02	165,593.44	15,650,885.29
May 2029	40,858,260.83	148,445.59	15,221,690.22
June 2029	40,214,112.61	132,116.96	14,757,843.13
July 2029	39,579,716.81	116,592.61	14,303,761.33
August 2029	38,954,929.06	101,857.83	13,864,318.48
September 2029	38,339,607.06	88,009.16	13,416,082.24
October 2029	37,733,610.62	75,667.37	13,039,614.87
November 2029	37,136,801.59	64,796.26	12,646,656.89
December 2029	36,549,043.83	55,360.32	12,288,989.78
January 2030	35,970,203.21	47,324.69	11,941,671.85
February 2030	35,400,147.55	40,655.23	11,631,114.32
March 2030	34,838,746.61	35,318.41	11,331,214.67
April 2030	34,285,872.03	31,281.37	10,993,994.82
May 2030	33,741,397.36	28,511.88	10,635,256.52
June 2030	33,205,197.99	27,783.03	10,255,469.97
July 2030	32,677,151.12	27,375.21	9,895,758.05
August 2030	32,157,135.77	26,971.93	9,525,245.69
September 2030	31,645,032.71	26,573.14	9,169,281.89
October 2030	31,140,724.46	26,178.82	8,849,599.11
November 2030	30,644,095.27	25,788.93	8,526,466.71
December 2030	30,155,031.07	25,403.42	8,238,892.87

<u>Distribution Date</u>	<u>Classes AN, AP, FP and MY (in the aggregate)</u>	<u>Class LQ</u>	<u>Class FM</u>
January 2031	\$29,673,419.48	\$ 25,022.27	\$ 7,944,159.02
February 2031	29,199,149.75	24,645.42	7,684,293.71
March 2031	28,732,112.75	24,272.86	7,433,680.06
April 2031	28,272,200.96	23,904.54	7,156,435.87
May 2031	27,819,308.42	23,540.43	6,864,079.09
June 2031	27,373,330.75	23,180.47	6,565,567.09
July 2031	26,934,165.07	22,824.66	6,266,167.52
August 2031	26,501,710.02	22,472.94	5,967,730.02
September 2031	26,075,865.73	22,125.28	5,688,185.41
October 2031	25,656,533.78	21,781.64	5,420,878.07
November 2031	25,243,617.21	21,442.00	5,158,181.37
December 2031	24,837,020.48	21,106.30	4,928,119.16
January 2032	24,436,649.44	20,774.52	4,680,941.33
February 2032	24,042,411.32	20,446.62	4,469,596.59
March 2032	23,654,214.73	20,122.56	4,260,812.31
April 2032	23,271,969.59	19,802.32	4,025,067.39
May 2032	22,895,587.18	19,485.84	3,783,508.07
June 2032	22,524,980.05	19,173.10	3,546,902.13
July 2032	22,160,062.06	18,864.07	3,297,104.20
August 2032	21,800,748.30	18,558.70	3,060,353.91
September 2032	21,446,955.14	18,256.97	2,825,802.10
October 2032	21,098,600.16	17,958.84	2,605,518.50
November 2032	20,755,602.15	17,664.27	2,398,061.37
December 2032	20,417,881.12	17,373.24	2,195,750.09
January 2033	20,085,358.21	17,085.70	1,994,310.14
February 2033	19,757,955.75	16,801.62	1,814,743.47
March 2033	19,435,597.20	16,520.97	1,637,145.47
April 2033	19,118,207.15	16,243.72	1,437,116.45
May 2033	18,805,711.31	15,969.82	1,241,251.51
June 2033	18,498,036.44	15,699.26	1,037,407.80
July 2033	18,195,110.44	15,431.99	827,810.93
August 2033	17,896,862.20	15,167.98	632,585.18
September 2033	17,603,221.72	14,907.20	429,430.21
October 2033	17,314,119.99	14,649.62	241,538.86
November 2033	17,029,489.03	14,395.19	63,455.60
December 2033	16,749,261.85	14,143.91	0.00
January 2034	16,473,372.46	13,895.73	0.00
February 2034	16,201,755.83	13,650.60	0.00
March 2034	15,934,347.90	13,408.52	0.00
April 2034	15,671,085.53	13,169.45	0.00
May 2034	15,411,906.53	12,933.34	0.00
June 2034	15,156,749.63	12,700.19	0.00
July 2034	14,905,554.45	12,469.94	0.00
August 2034	14,658,261.49	12,242.57	0.00
September 2034	14,414,812.15	12,018.06	0.00
October 2034	14,175,148.68	11,796.37	0.00
November 2034	13,939,214.19	11,577.47	0.00

<u>Distribution Date</u>	<u>Classes AN, AP, FP and MY (in the aggregate)</u>	<u>Class LQ</u>	<u>Class FM</u>
December 2034	\$13,706,952.62	\$ 11,361.33	\$ 0.00
January 2035	13,478,308.73	11,147.93	0.00
February 2035	13,253,228.12	10,937.22	0.00
March 2035	13,031,657.17	10,729.19	0.00
April 2035	12,813,543.05	10,523.80	0.00
May 2035	12,598,833.73	10,321.03	0.00
June 2035	12,387,477.92	10,120.84	0.00
July 2035	12,179,425.12	9,923.22	0.00
August 2035	11,974,625.55	9,728.12	0.00
September 2035	11,773,030.17	9,535.54	0.00
October 2035	11,574,590.67	9,345.42	0.00
November 2035	11,379,259.46	9,157.74	0.00
December 2035	11,186,989.62	8,972.51	0.00
January 2036	10,997,734.97	8,789.65	0.00
February 2036	10,811,449.97	8,609.16	0.00
March 2036	10,628,089.79	8,431.02	0.00
April 2036	10,447,610.24	8,255.18	0.00
May 2036	10,269,967.78	8,081.64	0.00
June 2036	10,095,119.54	7,910.35	0.00
July 2036	9,923,023.25	7,741.30	0.00
August 2036	9,753,637.29	7,574.47	0.00
September 2036	9,586,920.65	7,409.82	0.00
October 2036	9,422,832.92	7,247.33	0.00
November 2036	9,261,334.30	7,086.97	0.00
December 2036	9,102,385.56	6,928.73	0.00
January 2037	8,945,948.08	6,772.56	0.00
February 2037	8,791,983.79	6,618.47	0.00
March 2037	8,640,455.19	6,466.41	0.00
April 2037	8,491,325.33	6,316.36	0.00
May 2037	8,344,557.81	6,168.30	0.00
June 2037	8,200,116.79	6,022.22	0.00
July 2037	8,057,966.93	5,878.08	0.00
August 2037	7,918,073.43	5,735.84	0.00
September 2037	7,780,402.01	5,595.53	0.00
October 2037	7,644,918.88	5,457.07	0.00
November 2037	7,511,590.78	5,320.47	0.00
December 2037	7,380,384.93	5,185.71	0.00
January 2038	7,251,269.01	5,052.75	0.00
February 2038	7,124,211.23	4,921.58	0.00
March 2038	6,999,180.24	4,792.16	0.00
April 2038	6,876,145.16	4,664.51	0.00
May 2038	6,755,075.56	4,538.57	0.00
June 2038	6,635,941.49	4,414.33	0.00
July 2038	6,518,713.43	4,291.77	0.00
August 2038	6,403,362.29	4,170.87	0.00
September 2038	6,289,859.41	4,051.62	0.00
October 2038	6,178,176.59	3,933.98	0.00

<u>Distribution Date</u>	<u>Classes AN, AP, FP and MY (in the aggregate)</u>	<u>Class LQ</u>	<u>Class FM</u>
November 2038	\$ 6,068,286.00	\$ 3,817.94	\$ 0.00
December 2038	5,960,160.28	3,703.49	0.00
January 2039	5,853,772.42	3,590.59	0.00
February 2039	5,749,095.85	3,479.24	0.00
March 2039	5,646,104.38	3,369.41	0.00
April 2039	5,544,772.23	3,261.08	0.00
May 2039	5,445,073.98	3,154.23	0.00
June 2039	5,346,984.59	3,048.85	0.00
July 2039	5,250,479.42	2,944.91	0.00
August 2039	5,155,534.16	2,842.41	0.00
September 2039	5,062,124.89	2,741.31	0.00
October 2039	4,970,228.03	2,641.61	0.00
November 2039	4,879,820.37	2,543.29	0.00
December 2039	4,790,879.04	2,446.32	0.00
January 2040	4,703,381.49	2,350.68	0.00
February 2040	4,617,305.54	2,256.38	0.00
March 2040	4,532,629.31	2,163.37	0.00
April 2040	4,449,331.28	2,071.65	0.00
May 2040	4,367,390.22	1,981.21	0.00
June 2040	4,286,785.24	1,892.02	0.00
July 2040	4,207,495.75	1,804.08	0.00
August 2040	4,129,501.46	1,717.35	0.00
September 2040	4,052,782.41	1,631.83	0.00
October 2040	3,977,318.92	1,547.50	0.00
November 2040	3,903,091.60	1,464.35	0.00
December 2040	3,830,081.37	1,382.36	0.00
January 2041	3,758,269.41	1,301.50	0.00
February 2041	3,687,637.21	1,221.79	0.00
March 2041	3,618,166.51	1,143.18	0.00
April 2041	3,549,839.34	1,065.67	0.00
May 2041	3,482,638.00	989.25	0.00
June 2041	3,416,545.04	913.90	0.00
July 2041	3,351,543.30	839.60	0.00
August 2041	3,287,615.84	766.35	0.00
September 2041	3,224,746.01	694.12	0.00
October 2041	3,162,917.39	622.90	0.00
November 2041	3,102,113.80	552.69	0.00
December 2041	3,042,319.33	483.46	0.00
January 2042	2,983,518.29	415.21	0.00
February 2042	2,925,695.22	347.90	0.00
March 2042	2,868,834.90	281.56	0.00
April 2042	2,812,922.34	216.13	0.00
May 2042	2,757,942.79	151.64	0.00
June 2042	2,703,881.69	88.05	0.00
July 2042	2,650,724.72	25.35	0.00
August 2042	2,598,457.77	0.00	0.00
September 2042	2,547,066.95	0.00	0.00

<u>Distribution Date</u>	<u>Classes AN, AP, FP and MY (in the aggregate)</u>	<u>Class LQ</u>	<u>Class FM</u>
October 2042	\$ 2,496,538.57	\$ 0.00	\$ 0.00
November 2042	2,446,859.15	0.00	0.00
December 2042	2,398,015.41	0.00	0.00
January 2043	2,349,994.28	0.00	0.00
February 2043	2,302,782.87	0.00	0.00
March 2043	2,256,368.50	0.00	0.00
April 2043	2,210,738.67	0.00	0.00
May 2043	2,165,881.08	0.00	0.00
June 2043	2,121,783.61	0.00	0.00
July 2043	2,078,434.32	0.00	0.00
August 2043	2,035,821.46	0.00	0.00
September 2043	1,993,933.44	0.00	0.00
October 2043	1,952,758.86	0.00	0.00
November 2043	1,912,286.49	0.00	0.00
December 2043	1,872,505.28	0.00	0.00
January 2044	1,833,404.31	0.00	0.00
February 2044	1,794,972.88	0.00	0.00
March 2044	1,757,200.40	0.00	0.00
April 2044	1,720,076.47	0.00	0.00
May 2044	1,683,590.85	0.00	0.00
June 2044	1,647,733.44	0.00	0.00
July 2044	1,612,494.30	0.00	0.00
August 2044	1,577,863.63	0.00	0.00
September 2044	1,543,831.81	0.00	0.00
October 2044	1,510,389.33	0.00	0.00
November 2044	1,477,526.84	0.00	0.00
December 2044	1,445,235.14	0.00	0.00
January 2045	1,413,505.16	0.00	0.00
February 2045	1,382,327.95	0.00	0.00
March 2045	1,351,694.74	0.00	0.00
April 2045	1,321,596.86	0.00	0.00
May 2045	1,292,025.78	0.00	0.00
June 2045	1,262,973.10	0.00	0.00
July 2045	1,234,430.55	0.00	0.00
August 2045	1,206,389.99	0.00	0.00
September 2045	1,178,843.38	0.00	0.00
October 2045	1,151,782.84	0.00	0.00
November 2045	1,125,200.58	0.00	0.00
December 2045	1,099,088.95	0.00	0.00
January 2046	1,073,440.41	0.00	0.00
February 2046	1,048,247.51	0.00	0.00
March 2046	1,023,502.96	0.00	0.00
April 2046	999,199.54	0.00	0.00
May 2046	975,330.17	0.00	0.00
June 2046	951,887.87	0.00	0.00
July 2046	928,865.74	0.00	0.00
August 2046	906,257.04	0.00	0.00

<u>Distribution Date</u>	<u>Classes AN, AP, FP and MY (in the aggregate)</u>	<u>Class LQ</u>	<u>Class FM</u>
September 2046	\$ 884,055.07	\$ 0.00	\$ 0.00
October 2046	862,253.29	0.00	0.00
November 2046	840,845.22	0.00	0.00
December 2046	819,824.50	0.00	0.00
January 2047	799,184.87	0.00	0.00
February 2047	778,920.14	0.00	0.00
March 2047	759,024.24	0.00	0.00
April 2047	739,491.19	0.00	0.00
May 2047	720,315.10	0.00	0.00
June 2047	701,490.16	0.00	0.00
July 2047	683,010.66	0.00	0.00
August 2047	664,870.98	0.00	0.00
September 2047	647,065.58	0.00	0.00
October 2047	629,589.01	0.00	0.00
November 2047	612,435.90	0.00	0.00
December 2047	595,600.96	0.00	0.00
January 2048	579,079.00	0.00	0.00
February 2048	562,864.88	0.00	0.00
March 2048	546,953.56	0.00	0.00
April 2048	531,340.08	0.00	0.00
May 2048	516,019.54	0.00	0.00
June 2048	500,987.14	0.00	0.00
July 2048	486,238.12	0.00	0.00
August 2048	471,767.83	0.00	0.00
September 2048	457,571.68	0.00	0.00
October 2048	443,645.13	0.00	0.00
November 2048	429,983.73	0.00	0.00
December 2048	416,583.11	0.00	0.00
January 2049	403,438.94	0.00	0.00
February 2049	390,546.98	0.00	0.00
March 2049	377,903.04	0.00	0.00
April 2049	365,503.01	0.00	0.00
May 2049	353,342.83	0.00	0.00
June 2049	341,418.52	0.00	0.00
July 2049	329,726.13	0.00	0.00
August 2049	318,261.81	0.00	0.00
September 2049	307,021.75	0.00	0.00
October 2049	296,002.20	0.00	0.00
November 2049	285,199.47	0.00	0.00
December 2049	274,609.93	0.00	0.00
January 2050	264,230.01	0.00	0.00
February 2050	254,056.18	0.00	0.00
March 2050	244,084.98	0.00	0.00
April 2050	234,313.00	0.00	0.00
May 2050	224,736.88	0.00	0.00
June 2050	215,353.33	0.00	0.00
July 2050	206,159.08	0.00	0.00

<u>Distribution Date</u>	<u>Classes AN, AP, FP and MY (in the aggregate)</u>	<u>Class LQ</u>	<u>Class FM</u>
August 2050	\$ 197,150.94	\$ 0.00	\$ 0.00
September 2050	188,325.76	0.00	0.00
October 2050	179,680.43	0.00	0.00
November 2050	171,211.90	0.00	0.00
December 2050	162,917.17	0.00	0.00
January 2051	154,793.28	0.00	0.00
February 2051	146,837.31	0.00	0.00
March 2051	139,046.41	0.00	0.00
April 2051	131,417.75	0.00	0.00
May 2051	123,948.55	0.00	0.00
June 2051	116,636.09	0.00	0.00
July 2051	109,477.68	0.00	0.00
August 2051	102,470.67	0.00	0.00
September 2051	95,612.45	0.00	0.00
October 2051	88,900.46	0.00	0.00
November 2051	82,332.19	0.00	0.00
December 2051	75,905.14	0.00	0.00
January 2052	69,616.87	0.00	0.00
February 2052	63,464.98	0.00	0.00
March 2052	57,447.11	0.00	0.00
April 2052	51,560.91	0.00	0.00
May 2052	45,804.11	0.00	0.00
June 2052	40,174.45	0.00	0.00
July 2052	34,669.70	0.00	0.00
August 2052	29,287.68	0.00	0.00
September 2052	24,026.25	0.00	0.00
October 2052	18,883.29	0.00	0.00
November 2052	13,856.71	0.00	0.00
December 2052	8,944.47	0.00	0.00
January 2053	4,144.55	0.00	0.00
February 2053 and thereafter	0.00	0.00	0.00

Underlying Certificates

Trust Asset Group or Subgroup	Issuer	Series	Class	Issue Date	CUSIP Number	Interest Rate	Interest Type(I)	Final Distribution Date	Principal Type(D)	Original Principal or Notional Balance of Class	Underlying Certificate(2)	Principal or Notional Balance in Trust	Percentage of Class in Trust	Ginnie Mae I or II
4	Ginnie Mae	2023-024	UD(C)	February 28, 2023	38383WDC8	5.00%	FIX	February 2053	SUP/AD	\$15,167,000	0.99577193	\$14,604,986.90	96.7033691567%	II
4	Ginnie Mae	2023-024	NO	February 28, 2023	38383WBQ8	4.50	FIX	February 2053	PAC II/AD	4,628,000	0.99999918	4,627,996.21	100.0000000000	II
7	Ginnie Mae	2023-024	NU	February 28, 2023	38383WBQ6	4.50	FIX	February 2053	SUP/AD	2,232,996.52	0.99999844	2,232,996.52	92.6556016598	II
11	Ginnie Mae	2019-152	FB	December 30, 2019	38382HX3	(4)	FLT	December 2049	PT	19,490,229.20	0.48725573	19,490,229.20	100.0000000000	II
11	Ginnie Mae	2019-152	SB	December 30, 2019	38382HX01	(4)	INV/IO	December 2049	NTL(PT)	40,000,000	0.48725573	19,490,229.20	100.0000000000	II
13A	Ginnie Mae	2020-062	OM(5)(6)	May 29, 2020	38382JF51	0.00	PO	March 2048	SC/PT	3,725,000	0.95619365	3,561,821.55	100.0000000000	II
13A	Ginnie Mae	2020-062	PO(7)	May 29, 2020	38382JF12	0.00	PO	June 2049	SC/PT	2,940,469.00	1.00000000	2,940,469.00	100.0000000000	II
13A	Ginnie Mae	2020-062	LO(8)	May 29, 2020	38382JF19	0.00	PO	March 2048	SC/PT	1,086,700.00	1.00000000	1,086,700.00	100.0000000000	II
13A	Ginnie Mae	2021-139	OM(5)(9)	August 30, 2021	38382XGK5	0.00	PO	August 2048	SC/PT	184,923	0.98406953	181,977.09	100.0000000000	II
13A	Ginnie Mae	2021-139	OP(5)(10)	August 30, 2021	38382XGK3	0.00	PO	March 2048	SC/PT	341,581	0.98091861	335,063.16	100.0000000000	II
13A	Ginnie Mae	2021-005	IC(3)	January 30, 2015	38378HFG9	3.50	FIX/IO	October 2052	SC/PT	2,421,540	0.99045243	2,398,420.18	100.0000000000	II
13B	Ginnie Mae	2015-024	OG(5)(11)(12)	January 27, 2015	38379HVT4	3.50	FIX/IO	June 2041	NTL(SCH/AD)	36,088,214	0.18161215	7,783,377.70	100.0000000000	II
13B	Ginnie Mae	2016-083	IC(3)	February 27, 2016	38379HVT2	3.50	FIX/IO	November 2037	NTL(SFO/AD)	42,857,142	0.03389933	944,014.00	48.6033502302	II
13B	Ginnie Mae	2020-062	NI(13)	June 30, 2016	38379HVT1	3.50	FIX/IO	August 2044	NTL(PT)	52,138,626	0.27634674	7,002,935.62	77.1652789467	II
13B	Ginnie Mae	2020-062	NI(13)	May 29, 2016	38382JFMQ9	5.00	FIX/IO	October 2048	NTL(SCH/AD)	851,589.54	0.25510204	851,589.54	100.0000000000	II
13B	Ginnie Mae	2020-091	XI	December 30, 2020	38382JFMQ9	6.00	FIX/IO	December 2050	NTL(SCH/PT)	2,207,333	0.161632041	1,360,424.38	100.0000000000	II
13B	Ginnie Mae	2022-078	IA(14)	April 29, 2022	38383JPT3	(4)	WAC/IO/DIY	September 2048	NTL(SCH/PT)	15,384,996	0.72338765	11,129,316.10	100.0000000000	II
13B	Ginnie Mae	2022-179	SG(5)(11)(12)	October 28, 2022	38383JPT3	(4)	T/IO/DIY	October 2052	NTL(SUP)	8,881,980	0.9905052	8,797,161.71	100.0000000000	II
13B	Ginnie Mae	2022-179	UI	October 28, 2022	38383JPT3	5.00	FIX/IO	October 2052	NTL(SUP)	393,367	0.90857486	357,312.51	100.0000000000	II
13B	Ginnie Mae	2022-211	TI	December 30, 2022	38383JST6	(4)	INV/IO	December 2052	NTL(PT)	192,307	0.99365249	191,886.33	100.0000000000	II
13B	Ginnie Mae	2022-211	TI	December 30, 2022	38383JST6	(4)	INV/IO	December 2052	NTL(PT)	384,615	0.99365249	382,172.67	100.0000000000	II
13B	Ginnie Mae	2022-213	IC	December 30, 2022	38383JZG8	(4)	INV/IO	December 2052	NTL(PT)	346,153	0.99365136	343,955.40	100.0000000000	II
13B	Ginnie Mae	2022-213	ID	December 30, 2022	38383JZ16	(4)	INV/IO	December 2052	NTL(PT)	1,538,461	0.99369929	1,528,690.68	100.0000000000	II
13B	Ginnie Mae	2023-024	IK(5)	February 28, 2023	38383WBB1	6.00	FIX/IO	February 2053	NTL(PT)	1,152,677	0.999904605	1,151,577.40	100.0000000000	II

- As defined under “Class Types” in Appendix I to the Base Offering Circular.
- Underlying Certificate Factors are as of March 2023.
- MX Class.
- The Interest Rate will be calculated as described under “Terms Sheet — Interest Rates” in the related Underlying Certificate Disclosure Document.
- More than 10% of the Mortgage Loans underlying this Underlying Certificate may be higher balance Mortgage Loans. See “Risk Factors” in *this Supplement*.
- Class OM is backed by a previously issued Ginnie Mae REMIC certificate, which is further backed by previously issued Ginnie Mae REMIC and MX certificates, as outlined below:
 - REMIC Class OM from 2019-098, further backed by:
 - REMIC Class OM from 2018-078, further backed by:
 - REMIC Class SW from 2016-109, further backed by:
 - REMIC Class GS from 2016-017, further backed by:
 - REMIC Class JS from 2015-111
 - REMIC Class TY from 2017-133
 - MX Class LB from 2017-186, further backed by:
 - MX Classes CT and ET from 2017-167
 - REMIC Class DQ from 2018-037

- (7) Class PO is backed by previously issued Ginnie Mae REMIC certificates, which are further backed by previously issued Ginnie Mae REMIC certificates, as outlined below:
- REMIC Class BO from 2019-098, further backed by:
 - REMIC Class WL from 2019-070
 - REMIC Class GO from 2019-098, further backed by:
 - REMIC Class GY from 2016-059
 - REMIC Class KO from 2019-098, further backed by:
 - REMIC Class CM from 2017-176
 - REMIC Class MO from 2019-098, further backed by:
 - REMIC Class PE from 2019-072
 - REMIC Class NO from 2019-098, further backed by:
 - REMIC Class NY from 2016-160
- (8) Class UO is backed by a previously issued Ginnie Mae REMIC certificate, as outlined below:
- REMIC Class UO from 2018-046
- (9) Class OM is backed by a previously issue Ginnie Mae REMIC certificate, which is further backed by previously issued Ginnie Mae REMIC certificates, as outlined below:
- REMIC Class OM from 2021-083, further backed by:
 - REMIC Class PO from 2019-071, further backed by:
 - REMIC Class PO from 2018-168, further backed by:
 - REMIC Class WY from 2017-018
 - REMIC Class AD from 2018-071
 - REMIC Class TE from 2018-104
- (10) Class OP is backed by a previously issue Ginnie Mae REMIC certificate, which is further backed by previously issued Ginnie Mae REMIC and MX certificates, as outlined below:
- REMIC Class OP from 2021-083, further backed by:
 - REMIC Class OM from 2018-078, further backed by:
 - REMIC Class TY from 2017-133
 - MX Class LB from 2017-186, further backed by:
 - MX Classes CT and ET from 2017-167
 - REMIC Class DQ from 2018-037
 - REMIC Class SW from 2016-109, further backed by:
 - REMIC Class GS from 2016-017, further backed by:
 - REMIC Class JS from 2015-111
- (11) The Mortgage Loans underlying this Underlying Certificate 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.

- (12) Classes OG and SG are backed by previously issued Ginnie Mae REMIC certificates, which are further backed by previously issued Ginnie Mae REMIC and MX certificates, as outlined below:
- REMIC Classes FQ, PO and SQ from 2022-168, further backed by:
 - REMIC Class KF from 2022-078, further backed by:
 - MX Class KU from 2022-020
 - REMIC Classes GP and KP from 2022-060
 - MX Class MV from 2022-060
- (13) Class NI is backed by a previously issued Ginnie Mae MX certificate, as outlined below:
- MX Class NI from 2018-105
- (14) Class IA is backed by previously issued Ginnie Mae REMIC and MX certificates, which are further backed by previously issued Ginnie Mae REMIC and MX certificates, as outlined below:
- REMIC Class BP from 2009-092
 - REMIC Class GE from 2017-033, further backed by:
 - MX Class PL from 2017-014
 - REMIC Class EV from 2018-078, further backed by:
 - REMIC Classes LB, LG, LH and IJ from 2018-037
 - MX Class AB from 2018-063
 - REMIC Class B from 2018-139, further backed by:
 - MX Class YB from 2018-124
 - MX Class MG from 2018-139



\$1,314,651,500

**Government National
Mortgage Association**

GINNIE MAE®

**Guaranteed REMIC
Pass-Through Securities
and MX Securities
Ginnie Mae REMIC Trust 2023-043**

OFFERING CIRCULAR SUPPLEMENT
March 24, 2023



Ramirez and Co., Inc.