

\$4,412,613,969
Government National Mortgage Association

GINNIE MAE®

**Guaranteed REMIC Pass-Through Securities
and MX Securities
Ginnie Mae REMIC Trust 2024-197**

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-20 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 December 30, 2024.

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

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

Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 1						
FA	\$ 80,374,935	(5)	PT	FLT	38385BAA8	December 2054
SA	80,374,935	(5)	NTL(PT)	INV/IO	38385BAB6	December 2054
Security Group 2						
CA(1)	20,910,000	5.00%	SEQ	FIX	38385BAC4	March 2051
CF	28,950,646	(5)	PT	FLT	38385BAD2	December 2054
CL(1)	8,040,646	5.00	SEQ	FIX	38385BAE0	December 2054
CS	28,950,646	(5)	NTL(PT)	INV/IO	38385BAF7	December 2054
Security Group 3						
CT	50,000,000	5.50	PT	FIX	38385BAG5	December 2054
F	100,000,000	(5)	PT	FLT	38385BAH3	December 2054
FB	25,000,000	(5)	PT	FLT	38385BAJ9	December 2054
SB	25,000,000	(5)	NTL(PT)	INV/IO	38385BAK6	December 2054
SL(1)	62,388,714	(5)	NTL(PT)	INV/IO	38385BAL4	December 2054
SN(1)	37,611,286	(5)	NTL(PT)	INV/IO	38385BAM2	December 2054
Security Group 4						
FH	40,000,000	(5)	PT	FLT	38385BAN0	December 2054
GF	24,555,306	(5)	PT	FLT	38385BAP5	December 2054
GS	40,658,857	(5)	NTL(PT)	INV/IO	38385BAQ3	December 2054
S	59,480,865	(5)	NTL(PT)	INV/IO	38385BAR1	December 2054
SW	9,464,794	(5)	NTL(PT)	INV/IO	38385BAS9	December 2054
TB	4,390,353	(5)	NTL(PT)	INV/IO	38385BAT7	December 2054
TC	15,090,512	(5)	NTL(PT)	INV/IO	38385BAU4	December 2054
YA(1)	40,609,647	(5)	SEQ/AD	FLT(6)	38385BAV2	December 2054
YB(1)	4,390,353	(5)	PT	FLT	38385BAW0	December 2054
Z	49,210	(5)	SEQ	FLT/Z(6)	38385BAX8	December 2054
Security Group 5						
FD	130,000,000	(5)	PT	FLT	38385BAY6	December 2054
SD	130,000,000	(5)	NTL(PT)	INV/IO	38385BAZ3	December 2054
TD	130,000,000	(5)	NTL(PT)	INV/IO	38385BBA7	December 2054
Security Group 6						
FE	25,000,000	(5)	PT	FLT	38385BBB5	December 2064
SE	45,000,000	(5)	NTL(PT)	INV/IO	38385BBB3	December 2064
TX	20,000,000	(5)	NTL(PT)	INV/IO	38385BBB1	December 2064
XF	20,000,000	(5)	PT	FLT	38385BBE9	December 2064
Security Group 7						
EF	60,000,000	(5)	PT	FLT	38385BBF6	December 2064
ES	135,000,000	(5)	NTL(PT)	INV/IO	38385BBG4	December 2064
FL	75,000,000	(5)	PT	FLT	38385BBH2	December 2064
TE	75,000,000	(5)	NTL(PT)	INV/IO	38385BBJ8	December 2064
Security Group 8						
AF	250,000,000	(5)	PT	FLT	38385BBK5	December 2054
AS(1)	250,000,000	(5)	NTL(PT)	INV/IO	38385BBL3	December 2054
DF	70,000,000	(5)	PT	FLT	38385BBM1	December 2054
DS(1)	70,000,000	(5)	NTL(PT)	INV/IO	38385BBN9	December 2054
FQ	65,000,000	(5)	PT	FLT	38385BBP4	December 2054
FS	135,000,000	(5)	PT	FLT	38385BBQ2	December 2054
SQ	200,000,000	(5)	NTL(PT)	INV/IO	38385BBR0	December 2054
TA(1)	70,000,000	(5)	NTL(PT)	INV/IO	38385BBS8	December 2054
Security Group 9						
BF	60,000,000	(5)	PT	FLT	38385BBT6	December 2054
BS	60,000,000	(5)	NTL(PT)	INV/IO	38385BBU3	December 2054
FC	60,000,000	(5)	PT	FLT	38385BBV1	December 2054
SC	60,000,000	(5)	NTL(PT)	INV/IO	38385BBW9	December 2054
Security Group 10						
FJ	100,000,000	(5)	PT	FLT	38385BBX7	December 2054
JT	50,000,000	5.50	PT	FIX	38385BBY5	December 2054
SJ(1)	53,000,000	(5)	NTL(PT)	INV/IO	38385BBZ2	December 2054
US(1)	47,000,000	(5)	NTL(PT)	INV/IO	38385BCA6	December 2054
Security Group 11						
FT	55,000,000	(5)	TAC	FLT	38385BCB4	December 2064
FX	50,000,000	(5)	PT	FLT	38385BCC2	December 2064
IT(1)	25,000,000	(5)	NTL(TAC/AD)	INV/IO	38385BCD0	December 2064
JF	50,000,000	(5)	PT	FLT	38385BCE8	December 2064
JS(1)	172,469,945	(5)	NTL(PT)	INV/IO	38385BCF5	December 2064
TF	25,000,000	(5)	TAC/AD	FLT	38385BCG3	December 2064
TI	55,000,000	(5)	NTL(TAC)	INV/IO	38385BCH1	December 2064
TJ	50,000,000	(5)	NTL(PT)	INV/IO	38385BCJ7	December 2064
TS(1)	25,000,000	(5)	NTL(TAC/AD)	INV/IO	38385BCK4	December 2064
UF	17,469,945	(5)	SUP	FLT	38385BCL2	December 2064
ZU	2,510,316	6.50	SUP	FIXZ	38385BCM0	December 2064

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Ramirez & Co., Inc.

The date of this Offering Circular Supplement is December 23, 2024.

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						
A	\$ 10,000,000	5.00%	PT	FIX	38385BCN8	December 2054
FU	40,000,000	(5)	PT	FLT	38385BCP3	December 2054
MF	100,000,000	(5)	PT	FLT	38385BCQ1	December 2054
MS	100,000,000	(5)	NTL(PT)	INV/IO	38385BCR9	December 2054
SU	40,000,000	(5)	NTL(PT)	INV/IO	38385BCS7	December 2054
Security Group 13						
BA(1)	129,963,000	3.00	SEQ	FIX	38385BCT5	August 2046
BK(1)	26,180,000	3.00	SEQ	FIX	38385BCU2	April 2049
BM(1)	23,814,000	3.00	SEQ	FIX	38385BCV0	May 2051
BV(1)	13,094,000	3.00	AD/SEQ	FIX	38385BCW8	April 2036
BZ(1)	32,423,974	3.00	SEQ	FIX/Z	38385BCX6	December 2054
Security Group 14						
HF	50,000,000	(5)	PT	FLT	38385BCY4	December 2054
HS	50,000,000	(5)	NTL(PT)	INV/IO	38385BCZ1	December 2054
Security Group 15						
KF	50,000,000	(5)	PT	FLT	38385BDA5	December 2054
KS(1)	53,886,344	(5)	NTL(PT)	INV/IO	38385BDB3	December 2054
KT	46,500,000	5.00	PT	FIX	38385BDC1	December 2054
QS(1)	39,113,656	(5)	NTL(PT)	INV/IO	38385BDD9	December 2054
YK	43,000,000	(5)	PT	FLT	38385BDE7	December 2054
Security Group 16						
PT	69,000,000	6.00	PT	FIX	38385BDF4	December 2054
Security Group 17						
LF(1)	83,521,806	(5)	PT	FLT	38385BDG2	December 2054
LS	83,521,806	(5)	NTL(PT)	INV/IO	38385BDH0	December 2054
PA	40,315,000	4.50	PAC I	FIX	38385BDJ6	September 2053
PL	5,760,000	4.50	PAC I	FIX	38385BDK3	December 2054
PN(1)	2,230,000	4.50	PAC II	FIX	38385BDL1	December 2054
TL(1)	83,521,806	(5)	NTL(PT)	INV/IO	38385BDM9	December 2054
UN(1)	7,376,204	4.50	SUP	FIX	38385BDN7	December 2054
Security Group 18						
FM	50,000,000	(5)	PT	FLT	38385BDP2	December 2054
SM	50,000,000	(5)	NTL(PT)	INV/IO	38385BDQ0	December 2054
Security Group 19						
GA(1)	71,650,000	5.00	SEQ	FIX	38385BDR8	December 2053
GY(1)	6,975,644	5.00	SEQ	FIX	38385BDS6	December 2054
XG	117,938,466	(5)	NTL(PT)	INV/IO	38385BDT4	December 2054
YG	117,938,466	(5)	PT	FLT	38385BDU1	December 2054
Security Group 20						
BX(1)	46,000,000	(5)	NTL(PT)	INV/IO	38385BDV9	December 2054
CX(1)	46,000,000	(5)	NTL(PT)	INV/IO	38385BDW7	December 2054
DX(1)	29,000,000	(5)	NTL(PT)	INV/IO	38385BDX5	December 2054
EX(1)	29,000,000	(5)	NTL(PT)	INV/IO	38385BDY3	December 2054
NF	75,000,000	(5)	PT	FLT	38385BDZ0	December 2054
PF	75,000,000	(5)	PT	FLT	38385BEA4	December 2054
Security Group 21						
FN	61,158,397	(5)	SC/PT	FLT	38385BEB2	August 2053
IW	250,240,633	(5)	NTL(SC/PT)	WAC/IO	38385BEC0	October 2053
Security Group 22						
IO	18,197,625	0.50	NTL(SC/PT)	FIX/IO	38385BED8	November 2053
QF	18,197,625	(5)	SC/PT	FLT	38385BEE6	November 2053
Security Group 23						
FV	120,000,000	(5)	PT	FLT	38385BEF3	December 2054
NA(1)	122,513,000	4.50	SEQ	FIX	38385BEG1	April 2050
NK(1)	16,569,000	4.50	SEQ	FIX	38385BEH9	October 2051
NL(1)	26,376,000	4.50	SEQ	FIX	38385BEJ5	December 2054
NM(1)	14,542,000	4.50	SEQ	FIX	38385BEK2	January 2053
SV	120,000,000	(5)	NTL(PT)	INV/IO	38385BEL0	December 2054
Security Group 24						
AB(1)	172,399,000	5.00	SEQ	FIX	38385BEM8	September 2051
AK(1)	18,354,000	5.00	SEQ	FIX	38385BEN6	December 2052
AL(1)	25,981,000	5.00	SEQ	FIX	38385BEP1	December 2054
AM(1)	8,266,000	5.00	SEQ	FIX	38385BEQ9	June 2053
HA(1)	81,046,000	4.50	SEQ	FIX	38385BER7	March 2050
HL(1)	27,813,000	4.50	SEQ	FIX	38385BES5	December 2054
HM(1)	11,141,000	4.50	SEQ	FIX	38385BET3	September 2051
SG(1)	75,000,000	(5)	NTL(PT)	INV/IO	38385BEU0	December 2054
SH(1)	80,000,000	(5)	NTL(PT)	INV/IO	38385BEV8	December 2054
VF	155,000,000	(5)	PT	FLT	38385BEW6	December 2054
Security Group 25						
JY(1)	10,584,087	6.50	SEQ	FIX	38385BEX4	December 2054
PJ	46,701,000	6.50	PAC/AD	FIX	38385BEY2	February 2053
UZ	10,797,000	6.50	SUP	FIX/Z	38385BEZ9	February 2053
Security Group 26						
SP(1)	28,349,199	(5)	NTL(PT)	INV/IO	38385BFA3	December 2054
ST(1)	63,696,136	(5)	NTL(PT)	INV/IO	38385BFB1	December 2054
WF	110,103,762	(5)	PT	FLT	38385BFC9	December 2054
WS	18,058,427	(5)	NTL(PT)	INV/IO	38385BFD7	December 2054
Security Group 27						
DA(1)	56,129,000	5.50	SEQ	FIX	38385BFE5	March 2050
DC	20,000,000	5.50	SEQ	FIX	38385BFF2	March 2050
DV(1)	16,340,000	5.50	SEQ/AD	FIX	38385BFG0	November 2053
DZ	20,000,000	5.50	SEQ	FIX/Z	38385BFH8	December 2054
Security Group 28						
FY	80,000,000	(5)	PT	FLT	38385BFJ4	December 2054
JA(1)	85,841,000	5.00	SEQ	FIX	38385BFK1	January 2051
JL(1)	22,970,000	5.00	SEQ	FIX	38385BFL9	December 2054
JM(1)	11,189,000	5.00	SEQ	FIX	38385BFM7	June 2052
SY	80,000,000	(5)	NTL(PT)	INV/IO	38385BFN5	December 2054
Security Group 29						
KA(1)	32,646,000	5.00	SEQ	FIX	38385BFP0	May 2063
KL(1)	4,854,000	5.00	SEQ	FIX	38385BFP8	December 2064
TG(1)	112,500,000	(5)	NTL(PT)	INV/IO	38385BFR6	December 2064
XK	112,500,000	(5)	NTL(PT)	INV/IO	38385BFS4	December 2064
YE(1)	112,500,000	(5)	PT	FLT	38385BFT2	December 2064

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Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Residual						
RR	\$ 0	0.00%	NPR	NPR	38385BFU9	December 2064

- (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.
- (6) For additional discussion regarding the effect of 30-day Average SOFR on the rate of principal payments on these Securities, see "Risk Factors — The rate of principal payments on certain Group 4 classes will be sensitive to 30-day Average SOFR" and "Decrement Tables" 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 21 and 22 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: December 30, 2024

Distribution Date: The 20th day of each month or, if the 20th day is not a Business Day, the first Business Day thereafter, commencing in January 2025.

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	7.500%	30
2	Ginnie Mae II	6.000%	30
3A	Ginnie Mae II	6.500%	30
3B	Ginnie Mae II	6.500%	30
3C	Ginnie Mae II	6.500%	30
3D	Ginnie Mae II	6.500%	25
4A	Ginnie Mae II	7.000%	30
4B	Ginnie Mae II	7.000%	30
4C	Ginnie Mae II	7.000%	30
4D	Ginnie Mae II	7.000%	30
5	Ginnie Mae II	7.000%	30
6	Ginnie Mae II	6.000%	40
7	Ginnie Mae II	7.000%	40
8A	Ginnie Mae II	6.500%	30
8B	Ginnie Mae II	6.500%	30
9	Ginnie Mae II	6.500%	30
10A	Ginnie Mae II	6.500%	30
10B	Ginnie Mae II	6.500%	30
11	Ginnie Mae II	6.500%	40
12	Ginnie Mae II	6.000%	30
13	Ginnie Mae II	3.000%	30
14	Ginnie Mae II	6.500%	30
15A	Ginnie Mae II	6.000%	30
15B	Ginnie Mae II	6.000%	30
16	Ginnie Mae II	6.000%	30

<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>
17	Ginnie Mae II	6.000%	30
18	Ginnie Mae II	6.000%	30
19	Ginnie Mae II	6.500%	30
20A	Ginnie Mae II	6.500%	30
20B	Ginnie Mae II	6.500%	30
21A	Underlying Certificate	(1)	(1)
21B	Underlying Certificates	(1)	(1)
22	Underlying Certificate	(1)	(1)
23	Ginnie Mae II	5.500%	30
24A	Ginnie Mae II	5.500%	30
24B	Ginnie Mae II	5.500%	30
25	Ginnie Mae II	6.500%	30
26A	Ginnie Mae II	7.500%	30
26B	Ginnie Mae II	7.500%	30
26C	Ginnie Mae II	7.500%	30
27	Ginnie Mae II	5.500%	30
28	Ginnie Mae II	6.000%	30
29	Ginnie Mae II	6.500%	40

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

(2) The Group 3, 4, 8, 10, 15, 20, 21, 24 and 26 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. 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 1 through 20 and 23 through 29 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 1 Trust Assets			
\$80,374,935	355	4	8.044%
Group 2 Trust Assets			
\$57,901,292	357	2	6.593%
Subgroup 3A Trust Assets			
\$97,130,797	351	1	6.985%
Subgroup 3B Trust Assets			
\$56,416,930	349	9	6.988%

<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>
Subgroup 3C Trust Assets \$17,095,209	352	7	6.919%
Subgroup 3D Trust Assets \$4,357,064	293	2	6.954%
Subgroup 4A Trust Assets \$45,475,080	355	5	7.371%
Subgroup 4B Trust Assets \$40,658,857	358	2	7.290%
Subgroup 4C Trust Assets \$14,005,785	358	1	7.576%
Subgroup 4D Trust Assets \$9,464,794	359	1	7.750%
Group 5 Trust Assets \$130,000,000	346	11	7.533%
Group 6 Trust Assets⁽³⁾ \$45,000,000	478	2	6.582%
Group 7 Trust Assets⁽³⁾ \$135,000,000	475	3	7.433%
Subgroup 8A Trust Assets \$70,000,000	346	11	7.075%
Subgroup 8B Trust Assets \$450,000,000	346	11	7.075%
Group 9 Trust Assets \$120,000,000	356	3	6.987%
Subgroup 10A Trust Assets \$79,500,000	358	2	6.867%
Subgroup 10B Trust Assets \$70,500,000	358	2	6.867%
Group 11 Trust Assets⁽³⁾ \$199,980,261	476	3	6.952%
Group 12 Trust Assets \$150,000,000	357	2	6.520%
Group 13 Trust Assets⁽⁴⁾ \$225,474,974	251	104	3.466%
Group 14 Trust Assets \$50,000,000	358	2	6.917%
Subgroup 15A Trust Assets \$80,829,516	351	1	6.518%
Subgroup 15B Trust Assets \$58,670,484	356	1	6.539%

<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 16 Trust Assets			
\$69,000,000	353	1	6.553%
Group 17 Trust Assets			
\$139,203,010	358	2	6.419%
Group 18 Trust Assets			
\$50,000,000	356	2	6.575%
Group 19 Trust Assets			
\$196,564,110	345	12	7.072%
Subgroup 20A Trust Assets			
\$92,000,000	353	4	6.942%
Subgroup 20B Trust Assets			
\$58,000,000	353	4	6.942%
Group 23 Trust Assets			
\$300,000,000	357	2	6.015%
Subgroup 24A Trust Assets			
\$200,000,000	357	1	5.977%
Subgroup 24B Trust Assets			
\$300,000,000	357	1	6.100%
Group 25 Trust Assets			
\$68,082,087	350	1	7.021%
Subgroup 26A Trust Assets			
\$18,058,427	359	1	8.000%
Subgroup 26B Trust Assets			
\$28,349,199	355	5	7.855%
Subgroup 26C Trust Assets			
\$63,696,136	354	6	7.795%
Group 27 Trust Assets			
\$112,469,000	357	1	6.029%
Group 28 Trust Assets			
\$200,000,000	358	1	6.600%
Group 29 Trust Assets⁽³⁾			
\$150,000,000	478	2	6.910%

⁽¹⁾ As of December 1, 2024.

⁽²⁾ The Mortgage Loans underlying the Group 1 through 20 and 23 through 29 Trust Assets may bear interest at rates ranging from 0.25% to 1.50% per annum above the related Certificate Rate.

⁽³⁾ The Mortgage Loans underlying the Group 6, 7, 11 and 29 Trust Assets are modified loans with terms greater than or equal to 361 but not more than 480 months from the pool issuance date.

⁽⁴⁾ The Mortgage Loans underlying the Group 13 Trust Assets may be re-performing Mortgage Loans that were previously repurchased from one or more pools of Mortgage Loans underlying one or more Ginnie Mae MBS Certificates.

The actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans underlying the Group 1 through 20 and 23 through 29 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 21 and 22 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. See “*Description of the Securities — Modification and Exchange*” in this Supplement.

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

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

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

<u>Class</u>	<u>Interest Rate Formula(1)</u>	<u>Initial Interest Rate(2)</u>	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Delay (in days)</u>	<u>30-day Average SOFR for Minimum Interest Rate</u>
Security Group 1						
FA	30-day Average SOFR + 0.95%	5.67533%	0.95%	7.50%	0	0.00%
SA	6.55% – 30-day Average SOFR	1.82467%	0.00%	6.55%	0	6.55%
Security Group 2						
CF	30-day Average SOFR + 1.10%	5.82533%	1.10%	7.00%	0	0.00%
CS	5.90% – 30-day Average SOFR	1.17467%	0.00%	5.90%	0	5.90%
Security Group 3						
F	30-day Average SOFR + 1.00%	5.59690%	1.00%	7.00%	0	0.00%
FB	30-day Average SOFR + 1.20%	6.05579%	1.20%	6.50%	0	0.00%
SB	5.30% – 30-day Average SOFR	0.44421%	0.00%	5.30%	0	5.30%
SL	6.00% – 30-day Average SOFR	1.40310%	0.00%	6.00%	0	6.00%
SN	6.00% – 30-day Average SOFR	1.40310%	0.00%	6.00%	0	6.00%
SX	6.00% – 30-day Average SOFR	1.40310%	0.00%	6.00%	0	6.00%

<u>Class</u>	<u>Interest Rate Formula(1)</u>	<u>Initial Interest Rate(2)</u>	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Delay (in days)</u>	<u>30-day Average SOFR for Minimum Interest Rate</u>
Security Group 4						
FG	30-day Average SOFR + 1.05%	5.76286%	1.05%	7.00%	0	0.00%
FH	30-day Average SOFR + 1.10%	5.69757%	1.10%	7.00%	0	0.00%
GF	30-day Average SOFR + 1.00%	5.59731%	1.00%	7.00%	0	0.00%
GS	5.95% - 30-day Average SOFR	1.22467%	0.00%	5.95%	0	5.95%
S	5.90% - 30-day Average SOFR	1.30243%	0.00%	5.90%	0	5.90%
SW	6.00% - 30-day Average SOFR	1.40310%	0.00%	6.00%	0	6.00%
TB	5.95% - 30-day Average SOFR	0.05000%	0.00%	0.05%	0	5.95%
TC	6.00% - 30-day Average SOFR	0.10000%	0.00%	0.10%	0	6.00%
YA	30-day Average SOFR + 1.05%	5.77533%	1.05%	7.00%	0	0.00%
YB	30-day Average SOFR + 1.05%	5.64757%	1.05%	7.00%	0	0.00%
Z	30-day Average SOFR + 1.05%	5.77533%	1.05%	7.00%	0	0.00%
Security Group 5						
FD	30-day Average SOFR + 1.00%	5.73403%	1.00%	7.00%	0	0.00%
SD	5.90% - 30-day Average SOFR	1.16597%	0.00%	5.90%	0	5.90%
TD	6.00% - 30-day Average SOFR	0.10000%	0.00%	0.10%	0	6.00%
Security Group 6						
FE	30-day Average SOFR + 1.45%	6.00000%	1.45%	6.00%	0	0.00%
SE	4.55% - 30-day Average SOFR	0.00000%	0.00%	4.55%	0	4.55%
TX	4.65% - 30-day Average SOFR	0.00000%	0.00%	0.10%	0	4.65%
XF	30-day Average SOFR + 1.35%	6.00000%	1.35%	6.00%	0	0.00%
Security Group 7						
EF	30-day Average SOFR + 1.05%	5.74922%	1.05%	7.00%	0	0.00%
ES	5.95% - 30-day Average SOFR	1.25078%	0.00%	5.95%	0	5.95%
FL	30-day Average SOFR + 1.00%	5.69922%	1.00%	7.00%	0	0.00%
TE	6.00% - 30-day Average SOFR	0.05000%	0.00%	0.05%	0	6.00%
Security Group 8						
AF	30-day Average SOFR + 1.22%	5.91922%	1.22%	6.50%	0	0.00%
AS	5.28% - 30-day Average SOFR	0.58078%	0.00%	5.28%	0	5.28%
DF	30-day Average SOFR + 1.20%	5.83164%	1.20%	6.50%	0	0.00%
DS	5.28% - 30-day Average SOFR	0.64836%	0.00%	5.28%	0	5.28%
FQ	30-day Average SOFR + 1.10%	5.69555%	1.10%	6.50%	0	0.00%
FS	30-day Average SOFR + 1.10%	5.69555%	1.10%	6.50%	0	0.00%
SK	5.28% - 30-day Average SOFR	0.59556%	0.00%	5.28%	0	5.28%
SQ	5.40% - 30-day Average SOFR	0.80445%	0.00%	5.40%	0	5.40%
TA	5.30% - 30-day Average SOFR	0.02000%	0.00%	0.02%	0	5.30%
XD	5.30% - 30-day Average SOFR	0.66836%	0.00%	5.30%	0	5.30%
Security Group 9						
BF	30-day Average SOFR + 1.40%	6.00000%	1.40%	6.00%	0	0.00%
BS	4.60% - 30-day Average SOFR	0.00000%	0.00%	4.60%	0	4.60%
FC	30-day Average SOFR + 1.00%	5.63898%	1.00%	7.00%	0	0.00%
SC	6.00% - 30-day Average SOFR	1.36102%	0.00%	6.00%	0	6.00%
Security Group 10						
FJ	30-day Average SOFR + 0.95%	5.58164%	0.95%	7.00%	0	0.00%
SJ	6.05% - 30-day Average SOFR	1.41836%	0.00%	6.05%	0	6.05%
US	6.05% - 30-day Average SOFR	1.41836%	0.00%	6.05%	0	6.05%
XS	6.05% - 30-day Average SOFR	1.41836%	0.00%	6.05%	0	6.05%

<u>Class</u>	<u>Interest Rate Formula(1)</u>	<u>Initial Interest Rate(2)</u>	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Delay (in days)</u>	<u>30-day Average SOFR for Minimum Interest Rate</u>
Security Group 11						
FT	30-day Average SOFR + 1.06%	5.69164%	1.06%	6.50%	0	0.00%
FX	30-day Average SOFR + 1.15%	5.84922%	1.15%	6.50%	0	0.00%
IT	5.45% - 30-day Average SOFR	0.15000%	0.00%	0.15%	0	5.45%
JF	30-day Average SOFR + 1.20%	5.89922%	1.20%	6.50%	0	0.00%
JS	5.30% - 30-day Average SOFR	0.62917%	0.00%	5.30%	0	5.30%
TF	30-day Average SOFR + 1.05%	5.66658%	1.05%	6.50%	0	0.00%
TI	5.44% - 30-day Average SOFR	0.14000%	0.00%	0.14%	0	5.44%
TJ	5.35% - 30-day Average SOFR	0.05000%	0.00%	0.05%	0	5.35%
TS	5.30% - 30-day Average SOFR	0.68342%	0.00%	5.30%	0	5.30%
UF	30-day Average SOFR + 1.20%	5.83164%	1.20%	6.50%	0	0.00%
XA	5.45% - 30-day Average SOFR	0.83342%	0.00%	5.45%	0	5.45%
YS	5.30% - 30-day Average SOFR	0.63603%	0.00%	5.30%	0	5.30%
Security Group 12						
FU	30-day Average SOFR + 1.25%	5.87428%	1.25%	6.25%	0	0.00%
MF	30-day Average SOFR + 1.30%	5.89450%	1.30%	6.00%	0	0.00%
MS	4.70% - 30-day Average SOFR	0.10550%	0.00%	4.70%	0	4.70%
SU	5.00% - 30-day Average SOFR	0.37572%	0.00%	5.00%	0	5.00%
Security Group 14						
HF	30-day Average SOFR + 1.20%	5.93403%	1.20%	6.50%	0	0.00%
HS	5.30% - 30-day Average SOFR	0.56597%	0.00%	5.30%	0	5.30%
Security Group 15						
KF	30-day Average SOFR + 1.15%	5.76658%	1.15%	6.50%	0	0.00%
KS	5.35% - 30-day Average SOFR	0.73342%	0.00%	5.35%	0	5.35%
QS	5.35% - 30-day Average SOFR	0.73342%	0.00%	5.35%	0	5.35%
XH	5.35% - 30-day Average SOFR	0.73342%	0.00%	5.35%	0	5.35%
YK	30-day Average SOFR + 1.15%	5.76658%	1.15%	6.50%	0	0.00%
Security Group 17						
FP	30-day Average SOFR + 1.00%	5.61658%	1.00%	7.00%	0	0.00%
LF	30-day Average SOFR + 0.60%	5.21658%	0.60%	7.00%	0	0.00%
LS	6.00% - 30-day Average SOFR	1.38342%	0.00%	6.00%	0	6.00%
TL	6.40% - 30-day Average SOFR	0.40000%	0.00%	0.40%	0	6.40%
Security Group 18						
FM	30-day Average SOFR + 1.55%	6.00000%	1.55%	6.00%	0	0.00%
SM	4.45% - 30-day Average SOFR	0.00000%	0.00%	4.45%	0	4.45%
Security Group 19						
XG	6.65% - 30-day Average SOFR	2.05243%	0.00%	6.65%	0	6.65%
YG	30-day Average SOFR + 0.85%	5.44757%	0.85%	7.50%	0	0.00%
Security Group 20						
BX	4.75% - 30-day Average SOFR	0.11102%	0.00%	4.75%	0	4.75%
CX	6.00% - 30-day Average SOFR	1.36102%	0.00%	6.00%	0	6.00%
DX	4.75% - 30-day Average SOFR	0.11102%	0.00%	4.75%	0	4.75%
EX	6.00% - 30-day Average SOFR	1.36102%	0.00%	6.00%	0	6.00%
NF	30-day Average SOFR + 1.25%	5.88898%	1.25%	6.00%	0	0.00%
NS	4.75% - 30-day Average SOFR	0.11102%	0.00%	4.75%	0	4.75%
PF	30-day Average SOFR + 1.00%	5.63898%	1.00%	7.00%	0	0.00%
PS	6.00% - 30-day Average SOFR	1.36102%	0.00%	6.00%	0	6.00%

<u>Class</u>	<u>Interest Rate Formula(1)</u>	<u>Initial Interest Rate(2)</u>	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Delay (in days)</u>	<u>30-day Average SOFR for Minimum Interest Rate</u>
Security Group 21						
FN	30-day Average SOFR + 0.90%	5.50460%	0.90%	7.00%	0	0.00%
Security Group 22						
QF	30-day Average SOFR + 0.65%	5.25460%	0.65%	8.00%	0	0.00%
Security Group 23						
FV	30-day Average SOFR + 0.95%	5.54555%	0.95%	7.00%	0	0.00%
SV	6.05% – 30-day Average SOFR	1.45445%	0.00%	6.05%	0	6.05%
Security Group 24						
SG	6.00% – 30-day Average SOFR	1.40445%	0.00%	6.00%	0	6.00%
SH	6.00% – 30-day Average SOFR	1.40445%	0.00%	6.00%	0	6.00%
VF	30-day Average SOFR + 1.00%	5.59555%	1.00%	7.00%	0	0.00%
VS	6.00% – 30-day Average SOFR	1.40445%	0.00%	6.00%	0	6.00%
Security Group 26						
SP	6.65% – 30-day Average SOFR	2.05310%	0.00%	6.65%	0	6.65%
ST	6.65% – 30-day Average SOFR	2.05310%	0.00%	6.65%	0	6.65%
WF	30-day Average SOFR + 0.85%	5.44690%	0.85%	7.50%	0	0.00%
WS	6.65% – 30-day Average SOFR	2.05310%	0.00%	6.65%	0	6.65%
XW	6.65% – 30-day Average SOFR	2.05310%	0.00%	6.65%	0	6.65%
Security Group 28						
FY	30-day Average SOFR + 0.85%	5.44757%	0.85%	7.50%	0	0.00%
SY	6.65% – 30-day Average SOFR	2.05243%	0.00%	6.65%	0	6.65%
Security Group 29						
SF	30-day Average SOFR + 1.10%	5.69757%	1.10%	7.00%	0	0.00%
TG	6.00% – 30-day Average SOFR	0.10000%	0.00%	0.10%	0	6.00%
XK	5.90% – 30-day Average SOFR	1.30243%	0.00%	5.90%	0	5.90%
YE	30-day Average SOFR + 1.00%	5.59757%	1.00%	7.00%	0	0.00%

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

Class IW is a Weighted Average Coupon Class that will accrue interest during each Accrual Period at a per annum Interest Rate equal to the total interest accrued on the Group 21 Trust Assets less the total accrued interest on Class FN for such Accrual Period, multiplied by 12, and divided by the Class Notional Balance of Class IW (before giving effect to any payments on such Distribution Date) for such Accrual Period. The approximate initial Interest Rate for Class IW, which will be in effect for the first Accrual Period, is 0.23447%.

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

SECURITY GROUP 1

The Group 1 Principal Distribution Amount will be allocated to FA, until retired

SECURITY GROUP 2

The Group 2 Principal Distribution Amount will be allocated, concurrently, as follows:

- 50% to CF, until retired
- 50%, sequentially, to CA and CL, in that order, until retired

SECURITY GROUP 3

The Subgroup 3A Principal Distribution Amount, the Subgroup 3B Principal Distribution Amount, the Subgroup 3C Principal Distribution Amount and the Subgroup 3D Principal Distribution Amount will be allocated as follows:

- 7.78890242196% of the Subgroup 3A Principal Distribution Amount, the Subgroup 3C Principal Distribution Amount and 7.7889147371% of the Subgroup 3D Principal Distribution Amount to FB, until retired
- 30.73703183965% of the Subgroup 3A Principal Distribution Amount, 33.3333345150% of the Subgroup 3B Principal Distribution Amount and 30.7370284210% of the Subgroup 3D Principal Distribution Amount to CT, until retired
- 61.47406573839% of the Subgroup 3A Principal Distribution Amount, 66.6666654850% of the Subgroup 3B Principal Distribution Amount and 61.4740568419% of the Subgroup 3D Principal Distribution Amount to F, until retired

SECURITY GROUP 4

The Subgroup 4A Principal Distribution Amount, the Subgroup 4B Principal Distribution Amount, the Subgroup 4C Principal Distribution Amount, the Subgroup 4D Principal Distribution Amount and the Z Accrual Amount will be allocated as follows:

- 97.6146781930% of the Subgroup 4A Principal Distribution Amount, concurrently, to FH and YB, pro rata, until retired
- The Subgroup 4B Principal Distribution Amount and the Z Accrual Amount, sequentially, to YA and Z, in that order, until retired
- 2.3853218070% of the Subgroup 4A Principal Distribution Amount, the Subgroup 4C Principal Distribution Amount and the Subgroup 4D Principal Distribution Amount to GF, until retired

SECURITY GROUP 5

The Group 5 Principal Distribution Amount will be allocated to FD, until retired

SECURITY GROUP 6

The Group 6 Principal Distribution Amount will be allocated, concurrently, to FE and XF, pro rata, until retired

SECURITY GROUP 7

The Group 7 Principal Distribution Amount will be allocated, concurrently, to EF and FL, pro rata, until retired

SECURITY GROUP 8

The Subgroup 8A Principal Distribution Amount and the Subgroup 8B Principal Distribution Amount will be allocated as follows:

- The Subgroup 8A Principal Distribution Amount, to DF, until retired
- The Subgroup 8B Principal Distribution Amount, concurrently, to AF, FQ and FS, pro rata, until retired

SECURITY GROUP 9

The Group 9 Principal Distribution Amount will be allocated, concurrently, to BF and FC, pro rata, until retired

SECURITY GROUP 10

The Group 10 Principal Distribution Amount will be allocated, concurrently, to FJ and JT, pro rata, until retired

SECURITY GROUP 11

The Group 11 Principal Distribution Amount and the ZU Accrual Amount will be allocated as follows:

- 50.0049352371% of the Group 11 Principal Distribution Amount, concurrently, to FX and JF, pro rata, until retired
- 36.2385490636% of the Group 11 Principal Distribution Amount in the following order of priority:
 1. To FT, until reduced to its Scheduled Principal Balance for that Distribution Date
 2. To UF, until retired
 3. To FT, without regard to its Scheduled Principal Balance, until retired
- 13.7565156993% of the Group 11 Principal Distribution Amount and the ZU Accrual Amount in the following order of priority:
 1. To TF, until reduced to its Scheduled Principal Balance for that Distribution Date
 2. To ZU, until retired
 3. To TF, without regard to its Scheduled Principal Balance, until retired

SECURITY GROUP 12

The Group 12 Principal Distribution Amount will be allocated, concurrently, to A, FU and MF, pro rata, until retired

SECURITY GROUP 13

The Group 13 Principal Distribution Amount and the BZ Accrual Amount will be allocated as follows:

- The BZ Accrual Amount, sequentially, to BV and BZ, in that order, until retired
- The Group 13 Principal Distribution Amount, sequentially, to BA, BK, BM, BV and BZ, in that order, until retired

SECURITY GROUP 14

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

SECURITY GROUP 15

The Group 15 Principal Distribution Amount will be allocated, concurrently, to KF, KT and YK, pro rata, until retired

SECURITY GROUP 16

The Group 16 Principal Distribution Amount will be allocated to PT, until retired

SECURITY GROUP 17

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

- 60% to LF, until retired
- 40% in the following order of priority:
 1. Sequentially, to PA and PL, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 2. To PN, until reduced to its Scheduled Principal Balance for that Distribution Date
 3. To UN, until retired
 4. To PN, without regard to its Scheduled Principal Balance, until retired
 5. Sequentially, to PA and PL, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 18

The Group 18 Principal Distribution Amount will be allocated to FM, until retired

SECURITY GROUP 19

The Group 19 Principal Distribution Amount will be allocated, concurrently, as follows:

- 60% to YG, until retired
- 40%, sequentially, to GA and GY, in that order, until retired

SECURITY GROUP 20

The Group 20 Principal Distribution Amount will be allocated, concurrently, to NF and PF, pro rata, until retired

SECURITY GROUP 21

The Subgroup 21A Principal Distribution Amount will be allocated to FN, until retired

SECURITY GROUP 22

The Group 22 Principal Distribution Amount will be allocated to QF, until retired

SECURITY GROUP 23

The Group 23 Principal Distribution Amount will be allocated, concurrently, as follows:

- 40% to FV, until retired
- 60%, sequentially, to NA, NK, NM and NL, in that order, until retired

SECURITY GROUP 24

The Subgroup 24A Principal Distribution Amount and the Subgroup 24B Principal Distribution Amount will be allocated, concurrently, as follows:

- 40% of the Subgroup 24A Principal Distribution Amount and 25% of the Subgroup 24B Principal Distribution Amount to VF, until retired
- 60% of the Subgroup 24A Principal Distribution Amount, sequentially, to HA, HM and HL, in that order, until retired
- 75% of the Subgroup 24B Principal Distribution Amount, sequentially, to AB, AK, AM and AL, in that order, until retired

SECURITY GROUP 25

The Group 25 Principal Distribution Amount and the UZ Accrual Amount will be allocated in the following order of priority:

1. To PJ, until reduced to its Scheduled Principal Balance for that Distribution Date
2. To UZ, until retired
3. To PJ, without regard to its Scheduled Principal Balance, until retired
4. To JY, until retired

SECURITY GROUP 26

The Group 26 Principal Distribution Amount will be allocated to WF, until retired

SECURITY GROUP 27

The Group 27 Principal Distribution Amount and the DZ Accrual Amount will be allocated as follows:

- The DZ Accrual Amount, sequentially, to DV and DZ, in that order, until retired
- The Group 27 Principal Distribution Amount in the following order of priority:
 1. Concurrently, to DA and DC, pro rata, until retired
 2. Sequentially, to DV and DZ, in that order, until retired

SECURITY GROUP 28

The Group 28 Principal Distribution Amount will be allocated, concurrently, as follows:

- 40% to FY, until retired
- 60%, sequentially, to JA, JM and JL, in that order, until retired

SECURITY GROUP 29

The Group 29 Principal Distribution Amount will be allocated, concurrently, as follows:

- 75% to YE, until retired
- 25%, sequentially, to KA and KL, in that order, until retired

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

<u>Security Group</u>	<u>Structuring Ranges or Rates</u>
TAC Classes	
11 FT	486% PSA
11 TF	471% PSA
PAC I Classes	
17 PA and PL (in the aggregate)	150% PSA through 250% PSA
PAC II Class	
17 PN	170% PSA through 250% PSA
PAC Class	
25 PJ	200% PSA through 375% 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, Subgroup or Subgroups indicated:

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
Security Group 1		
SA	\$ 80,374,935	100% of FA (PT Class)
Security Group 2		
CI	\$ 3,485,000	16.666666667% of CA (SEQ Class)
CS	28,950,646	100% of CF (PT Class)
IC	4,825,107	16.666666667% of CA and CL (in the aggregate) (SEQ Classes)
Security Group 3		
SB	\$ 25,000,000	100% of FB (PT Class)
SL	\$ 59,710,250	61.47406573839% of the Subgroup 3A Trust Assets
	2,678,464	61.4740568419% of the Subgroup 3D Trust Assets
	<u>\$ 62,388,714</u>	

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
SN	37,611,286	66.6666654850% of the Subgroup 3B Trust Assets
SX	\$ 59,710,250	61.47406573839% of the Subgroup 3A Trust Assets
	37,611,286	66.6666654850% of the Subgroup 3B Trust Assets
	2,678,464	61.4740568419% of the Subgroup 3D Trust Assets
	<u>\$100,000,000</u>	
Security Group 4		
GS	\$ 49,210	100% of Z (SEQ Class)
	40,609,647	100% of YA (SEQ/AD Class)
	<u>\$ 40,658,857</u>	
S	\$ 45,475,080	100% of the Subgroup 4A Trust Assets
	14,005,785	100% of the Subgroup 4C Trust Assets
	<u>\$ 59,480,865</u>	
SW	9,464,794	100% of the Subgroup 4D Trust Assets
TB	4,390,353	100% of YB (PT Class)
TC	\$ 1,084,727	2.3853218070% of the Subgroup 4A Trust Assets
	14,005,785	100% of the Subgroup 4C Trust Assets
	<u>\$ 15,090,512</u>	
Security Group 5		
SD	\$130,000,000	100% of FD (PT Class)
TD	130,000,000	100% of FD (PT Class)
Security Group 6		
SE	\$ 45,000,000	100% of FE and XF (in the aggregate) (PT Classes)
TX	20,000,000	100% of XF (PT Class)
Security Group 7		
ES	\$135,000,000	100% of EF and FL (in the aggregate) (PT Classes)
TE	75,000,000	100% of FL (PT Class)
Security Group 8		
AS	\$250,000,000	100% of AF (PT Class)
DS	70,000,000	100% of DF (PT Class)
SK	320,000,000	100% of AF and DF (in the aggregate) (PT Classes)
SQ	200,000,000	100% of FQ and FS (in the aggregate) (PT Classes)
TA	70,000,000	100% of DF (PT Class)
XD	70,000,000	100% of DF (PT Class)
Security Group 9		
BS	\$ 60,000,000	100% of BF (PT Class)
SC	60,000,000	100% of FC (PT Class)
Security Group 10		
SJ	\$ 53,000,000	66.666666667% of the Subgroup 10A Trust Assets
US	47,000,000	66.666666667% of the Subgroup 10B Trust Assets
XS	\$ 53,000,000	66.666666667% of the Subgroup 10A Trust Assets
	47,000,000	66.666666667% of the Subgroup 10B Trust Assets
	<u>\$100,000,000</u>	

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
Security Group 11		
IT	\$ 25,000,000	100% of TF (TAC/AD Class)
JS	\$ 17,469,945	100% of UF (SUP Class)
	55,000,000	100% of FT (TAC Class)
	<u>100,000,000</u>	100% of FX and JF (in the aggregate) (PT Classes)
	<u>\$172,469,945</u>	
TI	55,000,000	100% of FT (TAC Class)
TJ	50,000,000	100% of FX (PT Class)
TS	25,000,000	100% of TF (TAC/AD Class)
XA	25,000,000	100% of TF (TAC/AD Class)
YS	\$ 17,469,945	100% of UF (SUP Class)
	55,000,000	100% of FT (TAC Class)
	100,000,000	100% of FX and JF (in the aggregate) (PT Classes)
	<u>25,000,000</u>	100% of TF (TAC/AD Class)
	<u>\$197,469,945</u>	
Security Group 12		
MS	\$100,000,000	100% of MF (PT Class)
SU	40,000,000	100% of FU (PT Class)
Security Group 13		
BI	\$ 52,047,666	33.3333333333% of BA and BK (in the aggregate) (SEQ Classes)
IB	59,985,666	33.3333333333% of BA, BK and BM (in the aggregate) (SEQ Classes)
Security Group 14		
HS	\$ 50,000,000	100% of HF (PT Class)
Security Group 15		
KS	\$ 53,886,344	66.6666666667% of the Subgroup 15A Trust Assets
QS	39,113,656	66.6666666667% of the Subgroup 15B Trust Assets
XH	\$ 53,886,344	66.6666666667% of the Subgroup 15A Trust Assets
	<u>39,113,656</u>	66.6666666667% of the Subgroup 15B Trust Assets
	<u>\$ 93,000,000</u>	
Security Group 17		
LS	\$ 83,521,806	100% of LF (PT Class)
TL	83,521,806	100% of LF (PT Class)
UI	\$ 185,833	8.3333333333% of PN (PAC II Class)
	614,684	8.3333333333% of UN (SUP Class)
	<u>\$ 800,517</u>	
Security Group 18		
SM	\$ 50,000,000	100% of FM (PT Class)
Security Group 19		
GI	\$ 6,048,126	7.6923076923% of GA and GY (in the aggregate) (SEQ Classes)
XG	117,938,466	100% of YG (PT Class)
Security Group 20		
BX	\$ 46,000,000	50% of the Subgroup 20A Trust Assets
CX	46,000,000	50% of the Subgroup 20A Trust Assets
DX	29,000,000	50% of the Subgroup 20B Trust Assets
EX	29,000,000	50% of the Subgroup 20B Trust Assets

Class	Original Class Notional Balance	Represents Approximately
NS	\$ 46,000,000	50% of the Subgroup 20A Trust Assets
	29,000,000	50% of the Subgroup 20B Trust Assets
	<u>\$ 75,000,000</u>	
PS	\$ 46,000,000	50% of the Subgroup 20A Trust Assets
	29,000,000	50% of the Subgroup 20B Trust Assets
	<u>\$ 75,000,000</u>	
Security Group 21		
IW	\$ 61,158,397	100% of the Subgroup 21A Trust Assets
	189,082,236	100% of the Subgroup 21B Trust Assets
	<u>\$ 250,240,633</u>	
Security Group 22		
IO	\$ 18,197,625	100% of QF (SC/PT Class)
Security Group 23		
IM	\$ 13,965,818	9.0909090909% of NA, NK and NM (in the aggregate) (SEQ Classes)
IN	12,643,818	9.0909090909% of NA and NK (in the aggregate) (SEQ Classes)
MI	16,363,636	9.0909090909% of NA, NK, NL and NM (in the aggregate) (SEQ Classes)
NI	11,137,545	9.0909090909% of NA (SEQ Class)
SV	120,000,000	100% of FV (PT Class)
Security Group 24		
AI	\$ 15,672,636	9.0909090909% of AB (SEQ Class)
EI	18,092,636	9.0909090909% of AB, AK and AM (in the aggregate) (SEQ Classes)
HI	7,367,818	9.0909090909% of HA (SEQ Class)
IA	17,341,181	9.0909090909% of AB and AK (in the aggregate) (SEQ Classes)
ID	10,909,090	9.0909090909% of HA, HL and HM (in the aggregate) (SEQ Classes)
IE	20,454,545	9.0909090909% of AB, AK, AL and AM (in the aggregate) (SEQ Classes)
IH	8,380,636	9.0909090909% of HA and HM (in the aggregate) (SEQ Classes)
SG	75,000,000	25% of the Subgroup 24B Trust Assets
SH	80,000,000	40% of the Subgroup 24A Trust Assets
VS	\$ 80,000,000	40% of the Subgroup 24A Trust Assets
	75,000,000	25% of the Subgroup 24B Trust Assets
	<u>\$ 155,000,000</u>	
Security Group 25		
YI	\$ 1,628,321	15.3846153846% of JY (SEQ Class)
Security Group 26		
SP	\$ 28,349,199	100% of the Subgroup 26B Trust Assets
ST	63,696,136	100% of the Subgroup 26C Trust Assets
WS	18,058,427	100% of the Subgroup 26A Trust Assets
XW	\$ 28,349,199	100% of the Subgroup 26B Trust Assets
	63,696,136	100% of the Subgroup 26C Trust Assets
	<u>\$ 92,045,335</u>	
Security Group 27		
DI	\$ 10,205,272	18.1818181818% of DA (SEQ Class)
IV	2,970,909	18.1818181818% of DV (SEQ/AD Class)

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
Security Group 28		
IJ	\$ 10,909,090	9.0909090909% of JA, JL and JM (in the aggregate) (SEQ Classes)
JL	8,085,833	8.3333333333% of JA and JM (in the aggregate) (SEQ Classes)
SY	80,000,000	100% of FY (PT Class)
Security Group 29		
TG	\$112,500,000	100% of YE (PT Class)
XK	112,500,000	100% of YE (PT Class)

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 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 rate of principal payments on certain group 4 securities will be sensitive to 30-day Average SOFR. The rate of principal payments on the group 4 accrual class that is also a floating rate class, and the rate of principal payments on its related accretion directed class, will depend in part on the rate at which interest accrues on such accrual class, which in turn will depend on the level of 30-day Average SOFR. In particular, during periods when the level of 30-day Average SOFR is lower than expected, the principal

balances of such accrual and accretion directed classes will be paid more slowly than would otherwise be the case, and their weighted average lives may be extended, perhaps significantly.

The levels of 30-day Average SOFR will affect the yields on the floating rate, inverse floating rate and, under certain circumstances, weighted average coupon securities. If 30-day Average 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 such index will generally reduce the yield on the floating rate securities; higher levels of such index will generally reduce the yield on the inverse floating rate and, under certain circumstances, weighted average coupon securities. You should bear in mind that the timing of changes in the level of such index may affect your yield: generally, the earlier a change, the greater the effect on your yield. It is doubtful that such index will remain constant.

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

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

any distribution date greater than the amount needed to produce scheduled payments on the PAC and TAC classes for that distribution date, this excess will be distributed to the related support class.

The rate of payments on the underlying certificates will directly affect the rate of payments on the group 21 and 22 securities.

The underlying certificates will be sensitive in varying degrees to the rate of payments of principal (including prepayments) of the related mortgage loans.

This supplement contains no information as to 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 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.

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

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

The Federal Reserve Bank of New York has noted that it may alter the methods of calculation, publication schedule, rate revision practices or availability of 30-day Average SOFR at any time without notice. There can be no assurance that 30-day Average SOFR will not be discontinued or fundamentally altered in a manner that is materially adverse to the interests of investors in the floating rate, inverse floating rate and weighted average coupon securities.

If 30-day Average SOFR is no longer published or cannot be used, the amount of interest payable on the floating rate and inverse floating rate securities will be determined using a replacement rate, as described under “Description of the

Securities — Interest Rate Indices — Benchmark Replacement” in the base offering circular. Ginnie Mae will have the sole discretion to make conforming changes in connection with any replacement rate without the consent of security holders or any other party, as described under “Description of the Securities — Interest Rate Indices — Benchmark Replacement” in the base offering circular. This could reduce the amount of interest payable on the floating rate, 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 30-day Average SOFR or that any replacement rate will produce the economic equivalent of 30-day Average SOFR.

The securities may not be a suitable investment for you. The securities, especially the group 21 and 22 securities and, in particular, the support, interest only, 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 Underlying Certificates, will evidence, directly or indirectly, Ginnie Mae Certificates.

The Trust MBS (Groups 1 through 20 and 23 through 29)

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 21 and 22)

The Group 21 and 22 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 1 through 20 and 23 through 29 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 1 through 20 and 23 through 29 Trust Assets” and the general characteristics described in the Base Offering Circular. The Mortgage Loans will consist of first lien, single-family, fixed rate, residential mortgage loans that are insured or guaranteed by the Federal Housing Administration, the United States Department of Veterans Affairs, Rural Development (formerly the Rural Housing Service) or the United States Department of Housing and Urban Development (“HUD”). See “*The Ginnie Mae Certificates — General*” in the Base Offering Circular.

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

The Trustee Fee

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

GINNIE MAE GUARANTY

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

DESCRIPTION OF THE SECURITIES

General

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

Form of Securities

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

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

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

Distributions

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

Interest Distributions

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

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

Categories of Classes

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

Accrual Periods

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

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

Fixed Rate Classes

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

Floating Rate and Inverse Floating Rate Classes

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

The Interest Rate for the Floating Rate and Inverse Floating Rate Classes will be based on 30-day Average SOFR. The Trustee or its agent will determine 30-day Average SOFR as described under “Description of the Securities — Interest Rate Indices — Determination of 30-day Average SOFR” in the Base Offering Circular. In the case of the Group 21 and 22 Securities, the Trustee or its agent will use the same values of 30-day Average SOFR as are used for the related Underlying Certificates.

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

Weighted Average Coupon Class

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

The Trustee’s determination of 30-day Average SOFR and its calculation of the Interest Rates will be final except in the case of clear error. Investors can obtain 30-day Average SOFR levels and Interest Rates for the current and preceding Accrual Periods on ginniemae.gov or by calling the Information Agent at (800) 234-GNMA.

Accrual Classes

Each of Classes BZ, DZ, UZ, Z and ZU is an Accrual Class. Interest will accrue on the Accrual Classes and be distributed as described under “Terms Sheet — Accrual Classes” in this Supplement.

Principal Distributions

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

Categories of Classes

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

Notional Classes

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

Residual Securities

The Residual Securities will represent the beneficial ownership of the Residual Interest in the Trust 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 ginniema.gov.

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

Termination

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

On any Distribution Date upon the Trustee's determination that the REMIC status of 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 1, 2, 10, 13, 17, 18, 21, 22, 23, 25, 27, 30, 32, 33, 34, 35, 36, 38, 40, 41, 42 and 44, other related MX Classes. This process may occur repeatedly.

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

In the case of Combinations 1, 2, 10, 13, 17, 18, 21, 22, 23, 25, 27, 30, 32, 33, 34, 35, 36, 38, 40, 41, 42 and 44, the related REMIC Securities may be exchanged for proportionate interests in various sub-combinations of MX Classes. Similarly, all or a portion of these MX Classes may be exchanged for proportionate interests in the related REMIC Securities or in other subcombinations of the related MX Classes. Each subcombination may be effected only in proportions that result in the principal and interest entitlements of the Securities received being equal to the entitlements of the Securities surrendered. *See the example under "Description of the Securities — Modification and Exchange" in the Base Offering Circular.*

A Beneficial Owner proposing to effect an exchange must notify the Trustee through the Beneficial Owner's Book-Entry Depository participant. This notice must be received by the Trustee not later than two Business Days before the proposed exchange date. The exchange date can be any Business Day other than the last Business Day of the month. The notice must contain the outstanding principal and/or notional balances of the Securities to be included in the exchange and the proposed exchange date. The notice is required to be delivered to the Trustee by email to USBGNMATEam@USBank.com or in writing at its Corporate Trust Office at U.S. Bank National Association, One Federal Street, 3rd Floor,

Boston, MA 02110, Attention: Ginnie Mae REMIC Program Agency Group 2024-197. The Trustee may be contacted by telephone at (617) 603-6451 and by fax at (617) 603-6644.

A fee will be payable to the Trustee in connection with each exchange equal to $\frac{1}{32}$ of 1% of the outstanding principal balance (or notional balance) of the Securities surrendered for exchange (but not less than \$2,000 or more than \$25,000); provided, however, that no fee will be payable in respect of an interest only security unless all securities involved in the exchange are interest only securities. 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 21 and 22 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 21 and 22 securities*” in this Supplement.

In addition, changes in 30-day Average SOFR will affect the rate of principal payments on Classes FG, YA and Z. Investors in these Securities are urged to review the discussion under “*Risk Factors — The rate of principal payments on certain group 4 classes will be sensitive to 30-day Average SOFR*” and “*— Decrement Tables*” in this Supplement.

Accretion Directed Classes

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

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

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

Accretion Directed Classes

Security Group	Class	Maximum Weighted Average Life (in years) ⁽¹⁾	Final Distribution Date	Prepayment Rate at or below
13	BV	6.0	April 2036	142% PSA
27	DV	6.0	November 2035	151% PSA

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

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

Securities that Receive Principal on the Basis of Schedules

As described in this Supplement, each PAC and TAC Class will receive principal payments in accordance with a schedule calculated on the basis of, among other things, a Structuring Range or Rate. 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 and TAC Class exhibits an Effective Range or Rate of constant prepayment rates at which such Class will receive Scheduled Payments. That range or rate may differ from the Structuring Range or Rate used to create the related principal balance schedule. Based on the Modeling Assumptions, the *initial* Effective Ranges or Rates for the PAC and TAC Classes are as follows:

Security Group	Initial Effective Ranges or Rates
TAC Classes	
11	FT 486% PSA
11	TF 471% PSA
PAC I Classes	
17	PA and PL (in the aggregate) 150% PSA through 250% PSA
PAC II Class	
17	PN 170% PSA through 250% PSA
PAC Class	
25	PJ 200% PSA through 375% PSA

- The principal payment stability of the PAC Class 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 Class.
- The principal payment stability of the PAC II Class will be supported by the related Support Class.
- The principal payment stability of the TAC Classes 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 or Rate 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 or Rates. If the initial Effective Ranges or Rates were calculated using the actual characteristics of the related Mortgage Loans, the initial Effective Ranges or Rates could differ from those shown in the above table, or an initial Effective Rate might not exist. Therefore, even if the Mortgage Loans were to prepay at a constant rate within the initial Effective Range or at the initial Effective Rate 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 TAC Class not to receive Scheduled Payments, even if prepayment rates remain within the initial Effective Range (or if prepayment rates average the Effective Rate) for that Class. Further, the Effective Range for any PAC Class can narrow, shift over time or cease to exist, and the Effective Rate for any TAC Class can change 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 or Rate for any PAC or TAC Class, the amount available to pay principal on the Securities may be insufficient to produce Scheduled Payments on such related PAC or TAC 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 or Rate for any PAC or TAC Class, its supporting Class or Classes may be retired earlier than that PAC or TAC 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 1 through 20 and 23 through 29 Trust Assets have the assumed characteristics shown under “Assumed Characteristics of the Mortgage Loans Underlying the

Group 1 through 20 and 23 through 29 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 Subgroup 3D Trust Asset is assumed to have an original and a remaining term to maturity of 300 months, each Mortgage Loan underlying a Group 1, 2, 4, 5, 8, 9, 10, 12 through 20, 23, 24, 25, 26, 27 or 28 or a Subgroup 3A, 3B or 3C Trust Asset is assumed to have an original and a remaining term to maturity of 360 months, each Mortgage Loan underlying a Group 6, 7, 11 or 29 Trust Asset is assumed to have an original and a remaining term to maturity of 480 months and each Mortgage Loan underlying a Group 1 through 20 or 23 through 29 Trust Asset is assumed to have 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 January 2025.

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

5. The Closing Date for the Securities is December 30, 2024.

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

7. 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.

9. The Interest Rate applicable to Class Z for each Accrual Period is based on a constant 30-day Average SOFR level of 4.72533%, except with respect to the decrement tables.

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 rates. **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 and, in the case of Classes FG, YA and Z, under various assumed constant levels of 30-day Average SOFR. 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. In addition, the Weighted Average Lives of Classes FG, YA and Z are likely to vary due to differences between actual 30-day Average SOFR and the assumed constant levels of 30-day Average SOFR.

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

Security Group 1 PSA Prepayment Assumption Rates						
Classes FA and SA						
Distribution Date	0%	100%	350%	600%	900%	1,200%
Initial Percent	100	100	100	100	100	100
December 2025	99	97	92	87	80	74
December 2026	99	92	77	62	47	33
December 2027	98	85	60	40	21	9
December 2028	97	79	47	25	10	3
December 2029	96	74	37	16	4	1
December 2030	95	68	28	10	2	0
December 2031	94	63	22	6	1	0
December 2032	92	59	17	4	0	0
December 2033	91	54	13	2	0	0
December 2034	89	50	10	2	0	0
December 2035	88	46	8	1	0	0
December 2036	86	42	6	1	0	0
December 2037	84	38	5	0	0	0
December 2038	82	35	4	0	0	0
December 2039	79	32	3	0	0	0
December 2040	77	29	2	0	0	0
December 2041	74	26	2	0	0	0
December 2042	71	23	1	0	0	0
December 2043	67	21	1	0	0	0
December 2044	64	18	1	0	0	0
December 2045	59	16	0	0	0	0
December 2046	55	14	0	0	0	0
December 2047	50	12	0	0	0	0
December 2048	45	10	0	0	0	0
December 2049	39	8	0	0	0	0
December 2050	32	6	0	0	0	0
December 2051	25	4	0	0	0	0
December 2052	18	2	0	0	0	0
December 2053	9	1	0	0	0	0
December 2054	0	0	0	0	0	0
Weighted Average Life (years)	21.0	11.5	4.9	3.1	2.2	1.7

Security Group 2 PSA Prepayment Assumption Rates															
Distribution Date	Classes C, CA, CD, CE, CG and CI					Classes CF, CH, CJ, CK, CM, CN, CS and IC					Class CL				
	0%	100%	280%	450%	600%	0%	100%	280%	450%	600%	0%	100%	280%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	96	92	88	84	99	97	94	91	89	100	100	100	100	100
December 2026	97	89	76	63	53	98	92	82	73	66	100	100	100	100	100
December 2027	96	80	55	35	20	97	86	68	53	42	100	100	100	100	100
December 2028	94	71	39	15	0	96	79	56	38	27	100	100	100	100	96
December 2029	93	63	25	0	0	95	73	46	28	17	100	100	100	99	60
December 2030	91	55	13	0	0	93	68	37	20	11	100	100	100	71	38
December 2031	89	48	4	0	0	92	63	30	14	7	100	100	100	51	24
December 2032	87	41	0	0	0	90	58	25	10	4	100	100	89	37	15
December 2033	84	35	0	0	0	89	53	20	7	3	100	100	73	26	9
December 2034	82	29	0	0	0	87	49	16	5	2	100	100	59	19	6
December 2035	79	23	0	0	0	85	45	13	4	1	100	100	48	13	4
December 2036	76	18	0	0	0	83	41	11	3	1	100	100	39	9	2
December 2037	73	13	0	0	0	80	37	9	2	0	100	100	31	7	1
December 2038	70	8	0	0	0	78	34	7	1	0	100	100	25	5	1
December 2039	66	4	0	0	0	75	31	6	1	0	100	100	20	3	1
December 2040	62	0	0	0	0	73	28	4	1	0	100	99	16	2	0
December 2041	58	0	0	0	0	70	25	4	0	0	100	89	13	2	0
December 2042	53	0	0	0	0	66	22	3	0	0	100	79	10	1	0
December 2043	48	0	0	0	0	63	19	2	0	0	100	70	8	1	0
December 2044	43	0	0	0	0	59	17	2	0	0	100	61	6	1	0
December 2045	37	0	0	0	0	55	15	1	0	0	100	53	5	0	0
December 2046	31	0	0	0	0	50	13	1	0	0	100	46	4	0	0
December 2047	25	0	0	0	0	46	11	1	0	0	100	39	3	0	0
December 2048	18	0	0	0	0	40	9	1	0	0	100	32	2	0	0
December 2049	10	0	0	0	0	35	7	0	0	0	100	26	1	0	0
December 2050	2	0	0	0	0	29	5	0	0	0	100	20	1	0	0
December 2051	0	0	0	0	0	22	4	0	0	0	81	14	1	0	0
December 2052	0	0	0	0	0	16	2	0	0	0	56	9	0	0	0
December 2053	0	0	0	0	0	8	1	0	0	0	29	4	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.1	7.3	3.5	2.5	2.1	20.2	11.3	5.9	4.0	3.2	28.2	21.9	12.1	8.0	6.1

**Security Group 4
PSA Prepayment Assumption Rates**

Distribution Date	Classes FH, TB and YB					Class GF					Class GS				
	0%	100%	185%	300%	400%	0%	100%	185%	300%	400%	0%	100%	185%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	97	95	92	90	99	98	96	95	93	99	97	96	94	92
December 2026	98	91	86	78	72	98	93	88	83	78	98	92	88	82	76
December 2027	98	85	75	63	54	98	86	78	67	59	98	86	77	66	58
December 2028	97	79	66	51	41	97	80	68	55	44	97	80	68	54	43
December 2029	95	73	58	42	30	95	75	60	44	33	95	74	59	43	32
December 2030	94	68	51	34	23	94	69	53	36	25	94	68	52	35	24
December 2031	93	62	44	27	17	93	64	46	29	19	93	63	46	28	18
December 2032	92	58	39	22	13	92	59	40	23	14	92	58	40	23	14
December 2033	90	53	34	18	9	90	54	35	19	10	90	54	35	18	10
December 2034	89	49	29	14	7	89	50	31	15	8	89	50	30	15	8
December 2035	87	45	25	11	5	87	46	27	12	6	87	46	26	12	6
December 2036	85	41	22	9	4	85	42	23	10	4	85	42	23	9	4
December 2037	83	37	19	7	3	83	39	20	8	3	83	38	20	7	3
December 2038	81	34	16	6	2	81	35	17	6	2	81	35	17	6	2
December 2039	78	31	14	4	2	78	32	15	5	2	78	31	14	5	2
December 2040	75	28	12	4	1	75	29	13	4	1	75	28	12	4	1
December 2041	72	25	10	3	1	72	26	11	3	1	72	26	11	3	1
December 2042	69	22	9	2	1	69	23	9	2	1	69	23	9	2	1
December 2043	66	20	7	2	0	66	21	8	2	0	66	20	7	2	0
December 2044	62	17	6	1	0	62	18	6	1	0	62	18	6	1	0
December 2045	58	15	5	1	0	58	16	5	1	0	58	16	5	1	0
December 2046	53	13	4	1	0	53	14	4	1	0	53	13	4	1	0
December 2047	49	11	3	1	0	49	12	3	1	0	49	11	3	1	0
December 2048	43	9	2	0	0	43	10	3	0	0	43	9	3	0	0
December 2049	37	7	2	0	0	37	8	2	0	0	37	8	2	0	0
December 2050	31	6	1	0	0	31	6	2	0	0	31	6	1	0	0
December 2051	24	4	1	0	0	24	4	1	0	0	24	4	1	0	0
December 2052	17	2	1	0	0	17	3	1	0	0	17	3	1	0	0
December 2053	9	1	0	0	0	9	1	0	0	0	9	1	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	20.8	11.3	7.9	5.4	4.3	20.8	11.6	8.2	5.7	4.5	20.8	11.5	8.1	5.6	4.5

PSA Prepayment Assumption Rates

Distribution Date	Class S					Class SW					Class TC				
	0%	100%	185%	300%	400%	0%	100%	185%	300%	400%	0%	100%	185%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	97	95	93	91	99	98	96	95	93	99	98	96	94	93
December 2026	98	92	86	79	73	98	93	89	83	78	98	93	88	82	77
December 2027	98	85	76	64	55	98	87	78	68	59	98	86	78	67	59
December 2028	97	79	67	52	42	97	80	69	55	44	97	80	68	54	44
December 2029	95	73	58	42	31	95	75	60	44	33	95	74	60	44	33
December 2030	94	68	51	34	23	94	69	53	36	25	94	69	53	36	25
December 2031	93	63	45	27	17	93	64	46	29	19	93	64	46	29	19
December 2032	92	58	39	22	13	92	59	40	23	14	92	59	40	23	14
December 2033	90	53	34	18	10	90	55	35	19	10	90	54	35	19	10
December 2034	89	49	30	14	7	89	50	31	15	8	89	50	31	15	8
December 2035	87	45	26	11	5	87	46	27	12	6	87	46	27	12	6
December 2036	85	41	22	9	4	85	42	23	10	4	85	42	23	10	4
December 2037	83	38	19	7	3	83	39	20	8	3	83	39	20	8	3
December 2038	81	34	17	6	2	81	35	17	6	2	81	35	17	6	2
December 2039	78	31	14	5	2	78	32	15	5	2	78	32	15	5	2
December 2040	75	28	12	4	1	75	29	13	4	1	75	29	13	4	1
December 2041	72	25	10	3	1	72	26	11	3	1	72	26	11	3	1
December 2042	69	23	9	2	1	69	24	9	2	1	69	23	9	2	1
December 2043	66	20	7	2	0	66	21	8	2	0	66	21	8	2	0
December 2044	62	18	6	1	0	62	18	6	1	0	62	18	6	1	0
December 2045	58	15	5	1	0	58	16	5	1	0	58	16	5	1	0
December 2046	53	13	4	1	0	53	14	4	1	0	53	14	4	1	0
December 2047	49	11	3	1	0	49	12	4	1	0	49	12	3	1	0
December 2048	43	9	3	0	0	43	10	3	0	0	43	10	3	0	0
December 2049	37	7	2	0	0	37	8	2	0	0	37	8	2	0	0
December 2050	31	6	1	0	0	31	6	2	0	0	31	6	1	0	0
December 2051	24	4	1	0	0	24	5	1	0	0	24	4	1	0	0
December 2052	17	2	1	0	0	17	3	1	0	0	17	3	1	0	0
December 2053	9	1	0	0	0	9	1	0	0	0	9	1	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	20.8	11.4	7.9	5.5	4.3	20.8	11.7	8.2	5.7	4.6	20.8	11.6	8.2	5.7	4.5

**Security Group 5
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Classes FD, SD and TD</u>					
	<u>0%</u>	<u>100%</u>	<u>300%</u>	<u>490%</u>	<u>750%</u>	<u>1,000%</u>
Initial Percent	100	100	100	100	100	100
December 2025	99	96	89	82	73	64
December 2026	98	89	73	59	41	27
December 2027	98	83	59	41	23	11
December 2028	97	77	48	28	12	4
December 2029	95	71	39	20	7	2
December 2030	94	66	31	14	4	1
December 2031	93	61	25	10	2	0
December 2032	92	56	20	7	1	0
December 2033	90	52	16	5	1	0
December 2034	89	47	13	3	0	0
December 2035	87	43	10	2	0	0
December 2036	85	40	8	1	0	0
December 2037	83	36	7	1	0	0
December 2038	81	33	5	1	0	0
December 2039	78	30	4	0	0	0
December 2040	75	27	3	0	0	0
December 2041	72	24	3	0	0	0
December 2042	69	21	2	0	0	0
December 2043	66	19	2	0	0	0
December 2044	62	16	1	0	0	0
December 2045	58	14	1	0	0	0
December 2046	53	12	1	0	0	0
December 2047	49	10	0	0	0	0
December 2048	43	8	0	0	0	0
December 2049	37	6	0	0	0	0
December 2050	31	4	0	0	0	0
December 2051	24	3	0	0	0	0
December 2052	17	1	0	0	0	0
December 2053	9	0	0	0	0	0
December 2054	0	0	0	0	0	0
Weighted Average Life (years)	20.8	11.0	5.1	3.2	2.1	1.6

**Security Group 6
PSA Prepayment Assumption Rates**

Distribution Date	Classes FE, SE, TX and XF				
	0%	100%	350%	550%	700%
Initial Percent	100	100	100	100	100
December 2025	100	98	94	90	87
December 2026	99	93	80	69	62
December 2027	99	87	63	47	36
December 2028	98	81	49	31	21
December 2029	98	76	39	21	12
December 2030	97	71	30	14	7
December 2031	96	66	24	9	4
December 2032	96	62	19	6	2
December 2033	95	57	15	4	1
December 2034	94	53	11	3	1
December 2035	93	50	9	2	0
December 2036	92	46	7	1	0
December 2037	91	43	5	1	0
December 2038	90	40	4	1	0
December 2039	89	37	3	0	0
December 2040	88	34	3	0	0
December 2041	86	31	2	0	0
December 2042	85	29	2	0	0
December 2043	83	27	1	0	0
December 2044	82	24	1	0	0
December 2045	80	22	1	0	0
December 2046	78	20	1	0	0
December 2047	76	19	0	0	0
December 2048	73	17	0	0	0
December 2049	71	15	0	0	0
December 2050	68	14	0	0	0
December 2051	65	12	0	0	0
December 2052	62	11	0	0	0
December 2053	59	10	0	0	0
December 2054	55	9	0	0	0
December 2055	52	7	0	0	0
December 2056	47	6	0	0	0
December 2057	43	5	0	0	0
December 2058	38	4	0	0	0
December 2059	33	4	0	0	0
December 2060	27	3	0	0	0
December 2061	21	2	0	0	0
December 2062	15	1	0	0	0
December 2063	8	1	0	0	0
December 2064	0	0	0	0	0
Weighted Average					
Life (years)	28.8	13.4	5.1	3.5	2.9

**Security Group 7
PSA Prepayment Assumption Rates**

Distribution Date	Classes EF, ES, FL and TE					
	0%	100%	350%	636%	950%	1,300%
Initial Percent	100	100	100	100	100	100
December 2025	100	98	93	87	81	74
December 2026	99	93	79	63	48	32
December 2027	99	87	62	39	21	7
December 2028	99	81	49	24	9	2
December 2029	98	76	38	15	4	0
December 2030	98	71	30	9	2	0
December 2031	97	66	24	6	1	0
December 2032	97	62	18	3	0	0
December 2033	96	58	14	2	0	0
December 2034	95	54	11	1	0	0
December 2035	95	50	9	1	0	0
December 2036	94	47	7	0	0	0
December 2037	93	43	5	0	0	0
December 2038	92	40	4	0	0	0
December 2039	91	37	3	0	0	0
December 2040	90	34	3	0	0	0
December 2041	89	32	2	0	0	0
December 2042	87	29	2	0	0	0
December 2043	86	27	1	0	0	0
December 2044	84	25	1	0	0	0
December 2045	83	23	1	0	0	0
December 2046	81	21	1	0	0	0
December 2047	79	19	0	0	0	0
December 2048	77	17	0	0	0	0
December 2049	74	16	0	0	0	0
December 2050	72	14	0	0	0	0
December 2051	69	13	0	0	0	0
December 2052	66	11	0	0	0	0
December 2053	63	10	0	0	0	0
December 2054	59	9	0	0	0	0
December 2055	55	8	0	0	0	0
December 2056	51	7	0	0	0	0
December 2057	46	6	0	0	0	0
December 2058	41	5	0	0	0	0
December 2059	36	4	0	0	0	0
December 2060	30	3	0	0	0	0
December 2061	23	2	0	0	0	0
December 2062	16	1	0	0	0	0
December 2063	8	0	0	0	0	0
December 2064	0	0	0	0	0	0
Weighted Average Life (years)	29.6	13.5	5.1	3.0	2.2	1.7

**Security Group 8
PSA Prepayment Assumption Rates**

Distribution Date	Classes AF, AS, FQ, FS and SQ						Classes DF, DS, TA and XD						Class SK					
	0%	100%	300%	465%	750%	1,000%	0%	100%	300%	465%	750%	1,000%	0%	100%	300%	465%	750%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	95	88	83	73	64	99	95	88	83	73	64	99	95	88	83	73	64
December 2026	98	89	73	60	41	27	98	89	73	60	41	27	98	89	73	60	41	27
December 2027	97	83	59	43	22	11	97	83	59	43	22	11	97	83	59	43	22	11
December 2028	96	76	48	30	12	4	96	76	48	30	12	4	96	76	48	30	12	4
December 2029	95	71	38	22	7	2	95	71	38	22	7	2	95	71	38	22	7	2
December 2030	94	65	31	15	4	1	94	65	31	15	4	1	94	65	31	15	4	1
December 2031	92	60	25	11	2	0	92	60	25	11	2	0	92	60	25	11	2	0
December 2032	91	56	20	8	1	0	91	56	20	8	1	0	91	56	20	8	1	0
December 2033	89	51	16	5	1	0	89	51	16	5	1	0	89	51	16	5	1	0
December 2034	88	47	13	4	0	0	88	47	13	4	0	0	88	47	13	4	0	0
December 2035	86	43	10	3	0	0	86	43	10	3	0	0	86	43	10	3	0	0
December 2036	84	39	8	2	0	0	84	39	8	2	0	0	84	39	8	2	0	0
December 2037	82	36	6	1	0	0	82	36	6	1	0	0	82	36	6	1	0	0
December 2038	79	32	5	1	0	0	79	32	5	1	0	0	79	32	5	1	0	0
December 2039	77	29	4	1	0	0	77	29	4	1	0	0	77	29	4	1	0	0
December 2040	74	26	3	0	0	0	74	26	3	0	0	0	74	26	3	0	0	0
December 2041	71	23	2	0	0	0	71	23	2	0	0	0	71	23	2	0	0	0
December 2042	68	21	2	0	0	0	68	21	2	0	0	0	68	21	2	0	0	0
December 2043	64	18	1	0	0	0	64	18	1	0	0	0	64	18	1	0	0	0
December 2044	60	16	1	0	0	0	60	16	1	0	0	0	60	16	1	0	0	0
December 2045	56	14	1	0	0	0	56	14	1	0	0	0	56	14	1	0	0	0
December 2046	52	12	1	0	0	0	52	12	1	0	0	0	52	12	1	0	0	0
December 2047	47	10	0	0	0	0	47	10	0	0	0	0	47	10	0	0	0	0
December 2048	42	8	0	0	0	0	42	8	0	0	0	0	42	8	0	0	0	0
December 2049	36	6	0	0	0	0	36	6	0	0	0	0	36	6	0	0	0	0
December 2050	30	4	0	0	0	0	30	4	0	0	0	0	30	4	0	0	0	0
December 2051	23	3	0	0	0	0	23	3	0	0	0	0	23	3	0	0	0	0
December 2052	16	1	0	0	0	0	16	1	0	0	0	0	16	1	0	0	0	0
December 2053	8	0	0	0	0	0	8	0	0	0	0	0	8	0	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	20.5	10.9	5.1	3.4	2.1	1.6	20.5	10.9	5.1	3.4	2.1	1.6	20.5	10.9	5.1	3.4	2.1	1.6

**Security Group 9
PSA Prepayment Assumption Rates**

Distribution Date	Classes BF, BS, FC and SC					
	0%	100%	250%	445%	650%	900%
Initial Percent	100	100	100	100	100	100
December 2025	99	97	94	91	87	82
December 2026	98	92	83	72	62	49
December 2027	97	85	70	53	37	23
December 2028	96	79	59	38	22	10
December 2029	95	73	49	27	13	5
December 2030	94	68	41	20	8	2
December 2031	92	63	34	14	5	1
December 2032	91	58	29	10	3	0
December 2033	89	53	24	7	2	0
December 2034	88	49	20	5	1	0
December 2035	86	45	16	4	1	0
December 2036	84	41	14	3	0	0
December 2037	82	37	11	2	0	0
December 2038	79	34	9	1	0	0
December 2039	77	31	8	1	0	0
December 2040	74	28	6	1	0	0
December 2041	71	25	5	0	0	0
December 2042	68	22	4	0	0	0
December 2043	64	20	3	0	0	0
December 2044	60	17	3	0	0	0
December 2045	56	15	2	0	0	0
December 2046	52	13	2	0	0	0
December 2047	47	11	1	0	0	0
December 2048	42	9	1	0	0	0
December 2049	36	7	1	0	0	0
December 2050	30	5	0	0	0	0
December 2051	23	4	0	0	0	0
December 2052	16	2	0	0	0	0
December 2053	8	1	0	0	0	0
December 2054	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.4	6.4	4.0	2.9	2.2

**Security Group 10
PSA Prepayment Assumption Rates**

Distribution Date	Classes FJ, JT and XS						Class SJ						Class US					
	0%	100%	250%	445%	650%	900%	0%	100%	250%	445%	650%	900%	0%	100%	250%	445%	650%	900%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	97	95	91	88	84	99	97	95	91	88	84	99	97	95	91	88	84
December 2026	98	92	84	74	64	52	98	92	84	74	64	52	98	92	84	74	64	52
December 2027	97	86	71	54	39	24	97	86	71	54	39	24	97	86	71	54	39	24
December 2028	96	79	59	39	23	11	96	79	59	39	23	11	96	79	59	39	23	11
December 2029	95	74	50	28	14	5	95	74	50	28	14	5	95	74	50	28	14	5
December 2030	94	68	42	20	8	2	94	68	42	20	8	2	94	68	42	20	8	2
December 2031	92	63	35	15	5	1	92	63	35	15	5	1	92	63	35	15	5	1
December 2032	91	58	29	10	3	0	91	58	29	10	3	0	91	58	29	10	3	0
December 2033	89	53	24	8	2	0	89	53	24	8	2	0	89	53	24	8	2	0
December 2034	88	49	20	5	1	0	88	49	20	5	1	0	88	49	20	5	1	0
December 2035	86	45	17	4	1	0	86	45	17	4	1	0	86	45	17	4	1	0
December 2036	84	41	14	3	0	0	84	41	14	3	0	0	84	41	14	3	0	0
December 2037	82	38	11	2	0	0	82	38	11	2	0	0	82	38	11	2	0	0
December 2038	79	34	9	1	0	0	79	34	9	1	0	0	79	34	9	1	0	0
December 2039	77	31	8	1	0	0	77	31	8	1	0	0	77	31	8	1	0	0
December 2040	74	28	6	1	0	0	74	28	6	1	0	0	74	28	6	1	0	0
December 2041	71	25	5	0	0	0	71	25	5	0	0	0	71	25	5	0	0	0
December 2042	68	22	4	0	0	0	68	22	4	0	0	0	68	22	4	0	0	0
December 2043	64	20	3	0	0	0	64	20	3	0	0	0	64	20	3	0	0	0
December 2044	60	17	3	0	0	0	60	17	3	0	0	0	60	17	3	0	0	0
December 2045	56	15	2	0	0	0	56	15	2	0	0	0	56	15	2	0	0	0
December 2046	52	13	2	0	0	0	52	13	2	0	0	0	52	13	2	0	0	0
December 2047	47	11	1	0	0	0	47	11	1	0	0	0	47	11	1	0	0	0
December 2048	42	9	1	0	0	0	42	9	1	0	0	0	42	9	1	0	0	0
December 2049	36	7	1	0	0	0	36	7	1	0	0	0	36	7	1	0	0	0
December 2050	30	6	0	0	0	0	30	6	0	0	0	0	30	6	0	0	0	0
December 2051	23	4	0	0	0	0	23	4	0	0	0	0	23	4	0	0	0	0
December 2052	16	3	0	0	0	0	16	3	0	0	0	0	16	3	0	0	0	0
December 2053	8	1	0	0	0	0	8	1	0	0	0	0	8	1	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.4	6.5	4.1	3.0	2.3	20.5	11.4	6.5	4.1	3.0	2.3	20.5	11.4	6.5	4.1	3.0	2.3

**Security Group 11
PSA Prepayment Assumption Rates**

Distribution Date	Classes FT and TI						Classes FX, JF, JS and TJ						Classes IT, TF, TS and XA					
	0%	100%	300%	486%	750%	1,000%	0%	100%	300%	486%	750%	1,000%	0%	100%	300%	486%	750%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	100	97	92	87	87	87	100	98	94	90	85	80	99	97	93	89	89	88
December 2026	99	91	75	62	62	60	99	93	81	71	57	45	98	91	78	68	63	50
December 2027	98	83	56	34	34	24	99	87	66	50	32	18	97	83	61	44	35	20
December 2028	98	75	40	15	16	10	98	81	54	35	17	7	95	76	47	27	19	8
December 2029	97	68	26	1	5	4	98	76	44	25	9	3	94	70	35	15	10	3
December 2030	97	61	16	0	0	2	97	71	36	17	5	1	92	63	25	6	6	1
December 2031	96	55	7	0	0	1	97	66	29	12	3	0	91	57	16	0	3	0
December 2032	95	49	0	0	0	0	96	62	24	9	2	0	89	51	9	0	2	0
December 2033	94	44	0	0	0	0	95	57	19	6	1	0	87	45	3	0	1	0
December 2034	93	39	0	0	0	0	95	53	16	4	0	0	85	39	0	0	0	0
December 2035	92	34	0	0	0	0	94	50	13	3	0	0	83	34	0	0	0	0
December 2036	91	29	0	0	0	0	93	46	10	2	0	0	81	29	0	0	0	0
December 2037	90	25	0	0	0	0	92	43	8	1	0	0	78	24	0	0	0	0
December 2038	88	21	0	0	0	0	91	40	7	1	0	0	75	19	0	0	0	0
December 2039	87	17	0	0	0	0	90	37	5	1	0	0	73	14	0	0	0	0
December 2040	85	13	0	0	0	0	89	34	4	0	0	0	70	9	0	0	0	0
December 2041	84	10	0	0	0	0	88	31	4	0	0	0	66	4	0	0	0	0
December 2042	82	6	0	0	0	0	86	29	3	0	0	0	63	0	0	0	0	0
December 2043	80	3	0	0	0	0	85	27	2	0	0	0	59	0	0	0	0	0
December 2044	78	1	0	0	0	0	83	25	2	0	0	0	55	0	0	0	0	0
December 2045	75	0	0	0	0	0	81	22	1	0	0	0	50	0	0	0	0	0
December 2046	73	0	0	0	0	0	79	21	1	0	0	0	46	0	0	0	0	0
December 2047	70	0	0	0	0	0	77	19	1	0	0	0	41	0	0	0	0	0
December 2048	67	0	0	0	0	0	75	17	1	0	0	0	35	0	0	0	0	0
December 2049	64	0	0	0	0	0	73	15	1	0	0	0	29	0	0	0	0	0
December 2050	61	0	0	0	0	0	70	14	0	0	0	0	23	0	0	0	0	0
December 2051	57	0	0	0	0	0	67	12	0	0	0	0	16	0	0	0	0	0
December 2052	53	0	0	0	0	0	64	11	0	0	0	0	9	0	0	0	0	0
December 2053	48	0	0	0	0	0	61	10	0	0	0	0	1	0	0	0	0	0
December 2054	44	0	0	0	0	0	57	9	0	0	0	0	0	0	0	0	0	0
December 2055	39	0	0	0	0	0	53	8	0	0	0	0	0	0	0	0	0	0
December 2056	33	0	0	0	0	0	49	6	0	0	0	0	0	0	0	0	0	0
December 2057	27	0	0	0	0	0	45	5	0	0	0	0	0	0	0	0	0	0
December 2058	20	0	0	0	0	0	40	5	0	0	0	0	0	0	0	0	0	0
December 2059	13	0	0	0	0	0	34	4	0	0	0	0	0	0	0	0	0	0
December 2060	6	0	0	0	0	0	28	3	0	0	0	0	0	0	0	0	0	0
December 2061	0	0	0	0	0	0	22	2	0	0	0	0	0	0	0	0	0	0
December 2062	0	0	0	0	0	0	15	1	0	0	0	0	0	0	0	0	0	0
December 2063	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0
December 2064	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	26.3	8.7	3.6	2.5	2.6	2.4	29.2	13.4	5.8	3.8	2.6	2.1	19.3	8.6	4.2	3.0	2.8	2.2

**Security Group 11
PSA Prepayment Assumption Rates**

Distribution Date	Class UF						Class YS						Class ZU					
	0%	100%	300%	486%	750%	1,000%	0%	100%	300%	486%	750%	1,000%	0%	100%	300%	486%	750%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	100	100	100	100	79	59	100	98	94	90	86	81	107	107	107	104	48	0
December 2026	100	100	100	100	43	0	99	93	81	71	58	46	114	114	114	105	0	0
December 2027	100	100	100	100	23	0	99	86	66	49	32	18	121	121	121	108	0	0
December 2028	100	100	100	100	22	0	98	81	53	34	17	7	130	130	130	115	0	0
December 2029	100	100	100	100	22	0	97	75	43	24	10	3	138	138	138	123	0	0
December 2030	100	100	100	72	21	0	97	70	34	16	5	1	148	148	148	131	0	0
December 2031	100	100	100	51	12	0	96	65	28	11	3	0	157	157	157	135	0	0
December 2032	100	100	98	36	6	0	95	60	22	8	2	0	168	168	168	95	0	0
December 2033	100	100	80	25	3	0	94	56	17	5	1	0	179	179	179	66	0	0
December 2034	100	100	65	18	2	0	94	52	14	4	0	0	191	191	172	47	0	0
December 2035	100	100	53	12	1	0	93	48	11	3	0	0	204	204	139	33	0	0
December 2036	100	100	43	9	1	0	92	44	9	2	0	0	218	218	113	23	0	0
December 2037	100	100	35	6	0	0	90	40	7	1	0	0	232	232	91	16	0	0
December 2038	100	100	28	4	0	0	89	37	6	1	0	0	248	248	74	11	0	0
December 2039	100	100	23	3	0	0	88	34	5	1	0	0	264	264	60	8	0	0
December 2040	100	100	18	2	0	0	86	31	4	0	0	0	282	282	48	5	0	0
December 2041	100	100	15	1	0	0	85	28	3	0	0	0	301	301	39	4	0	0
December 2042	100	100	12	1	0	0	83	25	2	0	0	0	321	318	31	3	0	0
December 2043	100	100	10	1	0	0	81	23	2	0	0	0	343	292	25	2	0	0
December 2044	100	100	8	0	0	0	80	21	2	0	0	0	366	269	20	1	0	0
December 2045	100	93	6	0	0	0	77	20	1	0	0	0	390	246	16	1	0	0
December 2046	100	85	5	0	0	0	75	18	1	0	0	0	416	225	13	1	0	0
December 2047	100	78	4	0	0	0	73	16	1	0	0	0	444	205	10	0	0	0
December 2048	100	71	3	0	0	0	70	15	1	0	0	0	474	187	8	0	0	0
December 2049	100	64	2	0	0	0	67	13	1	0	0	0	506	169	6	0	0	0
December 2050	100	58	2	0	0	0	64	12	0	0	0	0	539	152	5	0	0	0
December 2051	100	52	1	0	0	0	61	11	0	0	0	0	576	137	4	0	0	0
December 2052	100	46	1	0	0	0	57	10	0	0	0	0	614	122	3	0	0	0
December 2053	100	41	1	0	0	0	53	9	0	0	0	0	655	108	2	0	0	0
December 2054	100	36	1	0	0	0	50	8	0	0	0	0	628	95	2	0	0	0
December 2055	100	31	1	0	0	0	47	7	0	0	0	0	585	83	1	0	0	0
December 2056	100	27	0	0	0	0	43	6	0	0	0	0	539	71	1	0	0	0
December 2057	100	23	0	0	0	0	39	5	0	0	0	0	489	60	1	0	0	0
December 2058	100	19	0	0	0	0	35	4	0	0	0	0	435	49	1	0	0	0
December 2059	100	15	0	0	0	0	30	3	0	0	0	0	376	39	0	0	0	0
December 2060	100	11	0	0	0	0	25	2	0	0	0	0	312	30	0	0	0	0
December 2061	92	8	0	0	0	0	19	2	0	0	0	0	243	21	0	0	0	0
December 2062	64	5	0	0	0	0	13	1	0	0	0	0	168	13	0	0	0	0
December 2063	33	2	0	0	0	0	7	0	0	0	0	0	88	5	0	0	0	0
December 2064	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	38.4	28.2	12.6	7.9	2.8	1.1	27.9	12.8	5.6	3.7	2.6	2.1	35.4	26.6	14.3	9.7	0.9	0.6

**Security Group 12
PSA Prepayment Assumption Rates**

Distribution Date	Classes A, FU, MF, MS and SU				
	0%	100%	280%	450%	600%
Initial Percent	100	100	100	100	100
December 2025	99	97	94	91	89
December 2026	98	92	82	73	66
December 2027	97	85	68	53	42
December 2028	96	79	56	38	27
December 2029	95	73	46	28	17
December 2030	93	68	37	20	11
December 2031	92	63	30	14	7
December 2032	90	58	25	10	4
December 2033	89	53	20	7	3
December 2034	87	49	16	5	2
December 2035	85	45	13	4	1
December 2036	83	41	11	3	1
December 2037	80	37	9	2	0
December 2038	78	34	7	1	0
December 2039	75	30	6	1	0
December 2040	73	27	4	1	0
December 2041	70	25	4	0	0
December 2042	66	22	3	0	0
December 2043	63	19	2	0	0
December 2044	59	17	2	0	0
December 2045	55	15	1	0	0
December 2046	50	13	1	0	0
December 2047	46	11	1	0	0
December 2048	40	9	1	0	0
December 2049	35	7	0	0	0
December 2050	29	5	0	0	0
December 2051	22	4	0	0	0
December 2052	16	2	0	0	0
December 2053	8	1	0	0	0
December 2054	0	0	0	0	0
Weighted Average Life (years)	20.2	11.3	5.9	4.0	3.2

**Security Group 13
PSA Prepayment Assumption Rates**

Distribution Date	Class B					Class BA					Classes BC, BD, BE, BG and BI					Classes BH, BJ, BN, BP and IB				
	0%	100%	111%	250%	400%	0%	100%	111%	250%	400%	0%	100%	111%	250%	400%	0%	100%	111%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	98	91	90	82	73	97	84	83	69	54	98	87	86	74	62	98	89	88	78	67
December 2026	97	82	81	67	54	94	69	67	43	20	95	75	73	53	33	96	78	77	59	42
December 2027	95	75	73	55	39	91	56	53	22	0	93	63	61	35	12	94	68	66	44	24
December 2028	93	67	65	45	29	88	43	40	4	0	90	53	50	20	0	91	59	57	31	11
December 2029	91	60	58	36	21	85	31	28	0	0	87	43	40	8	0	89	50	48	20	1
December 2030	89	54	52	30	15	81	20	16	0	0	84	34	30	0	0	86	42	40	12	0
December 2031	87	48	46	24	11	77	10	6	0	0	81	25	22	0	0	84	35	32	5	0
December 2032	85	43	40	19	8	74	1	0	0	0	78	17	14	0	0	81	28	25	0	0
December 2033	83	38	35	15	6	70	0	0	0	0	75	10	7	0	0	78	22	19	0	0
December 2034	80	33	31	12	4	65	0	0	0	0	71	3	0	0	0	75	16	13	0	0
December 2035	78	29	26	9	3	61	0	0	0	0	68	0	0	0	0	72	10	8	0	0
December 2036	75	25	23	7	2	56	0	0	0	0	64	0	0	0	0	69	5	3	0	0
December 2037	72	21	19	6	1	52	0	0	0	0	60	0	0	0	0	65	1	0	0	0
December 2038	69	17	16	4	1	47	0	0	0	0	56	0	0	0	0	61	0	0	0	0
December 2039	66	14	13	3	1	41	0	0	0	0	51	0	0	0	0	58	0	0	0	0
December 2040	63	11	10	2	0	36	0	0	0	0	47	0	0	0	0	54	0	0	0	0
December 2041	60	9	8	2	0	30	0	0	0	0	42	0	0	0	0	50	0	0	0	0
December 2042	56	6	5	1	0	24	0	0	0	0	37	0	0	0	0	45	0	0	0	0
December 2043	53	4	3	1	0	18	0	0	0	0	32	0	0	0	0	41	0	0	0	0
December 2044	49	2	2	0	0	11	0	0	0	0	26	0	0	0	0	36	0	0	0	0
December 2045	45	0	0	0	0	4	0	0	0	0	20	0	0	0	0	31	0	0	0	0
December 2046	41	0	0	0	0	0	0	0	0	0	14	0	0	0	0	26	0	0	0	0
December 2047	36	0	0	0	0	0	0	0	0	0	8	0	0	0	0	20	0	0	0	0
December 2048	32	0	0	0	0	0	0	0	0	0	2	0	0	0	0	15	0	0	0	0
December 2049	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0
December 2050	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
December 2051	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December 2052	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December 2053	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.3	7.8	7.5	4.7	3.2	12.5	3.6	3.4	1.9	1.2	14.3	4.6	4.3	2.4	1.6	15.8	5.5	5.2	3.0	1.9

**Security Group 13
PSA Prepayment Assumption Rates**

Distribution Date	Class BK					Class BL					Class BM				
	0%	100%	111%	250%	400%	0%	100%	111%	250%	400%	0%	100%	111%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2026	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2027	100	100	100	100	74	100	100	100	100	100	100	100	100	100	100
December 2028	100	100	100	100	0	100	100	100	100	93	100	100	100	100	81
December 2029	100	100	100	49	0	100	100	100	100	68	100	100	100	100	6
December 2030	100	100	100	0	0	100	100	100	96	49	100	100	100	88	0
December 2031	100	100	100	0	0	100	100	100	77	35	100	100	100	34	0
December 2032	100	100	82	0	0	100	100	100	62	25	100	100	100	0	0
December 2033	100	59	39	0	0	100	100	100	49	18	100	100	100	0	0
December 2034	100	19	0	0	0	100	100	100	39	13	100	100	99	0	0
December 2035	100	0	0	0	0	100	93	86	31	9	100	79	59	0	0
December 2036	100	0	0	0	0	100	80	73	24	6	100	41	22	0	0
December 2037	100	0	0	0	0	100	68	62	18	4	100	6	0	0	0
December 2038	100	0	0	0	0	100	57	51	14	3	100	0	0	0	0
December 2039	100	0	0	0	0	100	46	42	10	2	100	0	0	0	0
December 2040	100	0	0	0	0	100	37	33	7	1	100	0	0	0	0
December 2041	100	0	0	0	0	100	28	25	5	1	100	0	0	0	0
December 2042	100	0	0	0	0	100	20	18	3	0	100	0	0	0	0
December 2043	100	0	0	0	0	100	13	11	2	0	100	0	0	0	0
December 2044	100	0	0	0	0	100	6	5	1	0	100	0	0	0	0
December 2045	100	0	0	0	0	100	0	0	0	0	100	0	0	0	0
December 2046	86	0	0	0	0	100	0	0	0	0	100	0	0	0	0
December 2047	49	0	0	0	0	100	0	0	0	0	100	0	0	0	0
December 2048	10	0	0	0	0	100	0	0	0	0	100	0	0	0	0
December 2049	0	0	0	0	0	88	0	0	0	0	66	0	0	0	0
December 2050	0	0	0	0	0	72	0	0	0	0	19	0	0	0	0
December 2051	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0
December 2052	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0
December 2053	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	23.0	9.2	8.8	5.0	3.3	27.3	15.0	14.6	9.9	6.8	25.4	11.8	11.3	6.7	4.4

PSA Prepayment Assumption Rates

Distribution Date	Class BV					Class BY					Class BZ				
	0%	100%	111%	250%	400%	0%	100%	111%	250%	400%	0%	100%	111%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	92	92	92	92	92	100	100	100	100	100	103	103	103	103	103
December 2026	85	85	85	85	85	100	100	100	100	100	106	106	106	106	106
December 2027	77	77	77	77	77	100	100	100	100	100	109	109	109	109	109
December 2028	68	68	68	68	68	100	100	100	100	100	113	113	113	113	113
December 2029	60	60	60	60	60	100	100	100	100	100	116	116	116	116	116
December 2030	51	51	51	51	0	100	100	100	100	75	120	120	120	120	105
December 2031	42	42	42	42	0	100	100	100	100	54	123	123	123	123	76
December 2032	33	33	33	14	0	100	100	100	94	39	127	127	127	127	54
December 2033	23	23	23	0	0	100	100	100	75	27	131	131	131	106	39
December 2034	13	13	13	0	0	100	100	100	60	19	135	135	135	84	27
December 2035	3	3	3	0	0	100	100	100	47	14	139	139	139	66	19
December 2036	0	0	0	0	0	100	100	100	36	9	140	140	140	51	13
December 2037	0	0	0	0	0	100	100	94	28	7	140	140	132	39	9
December 2038	0	0	0	0	0	100	86	78	21	4	140	121	109	30	6
December 2039	0	0	0	0	0	100	70	63	16	3	140	99	89	22	4
December 2040	0	0	0	0	0	100	56	50	11	2	140	78	70	16	3
December 2041	0	0	0	0	0	100	43	38	8	1	140	60	53	11	2
December 2042	0	0	0	0	0	100	30	27	5	1	140	43	37	7	1
December 2043	0	0	0	0	0	100	19	17	3	0	140	27	23	4	0
December 2044	0	0	0	0	0	100	9	8	1	0	140	12	11	2	0
December 2045	0	0	0	0	0	100	0	0	0	0	140	0	0	0	0
December 2046	0	0	0	0	0	100	0	0	0	0	140	0	0	0	0
December 2047	0	0	0	0	0	100	0	0	0	0	140	0	0	0	0
December 2048	0	0	0	0	0	100	0	0	0	0	140	0	0	0	0
December 2049	0	0	0	0	0	100	0	0	0	0	140	0	0	0	0
December 2050	0	0	0	0	0	100	0	0	0	0	140	0	0	0	0
December 2051	0	0	0	0	0	84	0	0	0	0	118	0	0	0	0
December 2052	0	0	0	0	0	58	0	0	0	0	81	0	0	0	0
December 2053	0	0	0	0	0	29	0	0	0	0	41	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	6.0	6.0	6.0	5.4	4.3	28.3	16.6	16.3	11.6	8.1	28.3	16.6	16.3	11.9	8.6

**Security Group 14
PSA Prepayment Assumption Rates**

Distribution Date	Classes HF and HS					
	0%	100%	300%	465%	750%	1,000%
Initial Percent	100	100	100	100	100	100
December 2025	99	97	94	91	86	82
December 2026	98	92	81	73	59	47
December 2027	97	86	66	52	32	19
December 2028	96	80	54	37	18	8
December 2029	95	74	43	26	10	3
December 2030	94	68	35	19	5	1
December 2031	92	63	28	13	3	0
December 2032	91	58	23	9	2	0
December 2033	89	53	18	7	1	0
December 2034	88	49	15	5	0	0
December 2035	86	45	12	3	0	0
December 2036	84	41	9	2	0	0
December 2037	82	38	7	2	0	0
December 2038	79	34	6	1	0	0
December 2039	77	31	5	1	0	0
December 2040	74	28	4	1	0	0
December 2041	71	25	3	0	0	0
December 2042	68	22	2	0	0	0
December 2043	64	20	2	0	0	0
December 2044	60	17	1	0	0	0
December 2045	56	15	1	0	0	0
December 2046	52	13	1	0	0	0
December 2047	47	11	1	0	0	0
December 2048	42	9	0	0	0	0
December 2049	36	7	0	0	0	0
December 2050	30	6	0	0	0	0
December 2051	23	4	0	0	0	0
December 2052	16	3	0	0	0	0
December 2053	8	1	0	0	0	0
December 2054	0	0	0	0	0	0
Weighted Average Life (years)	20.5	11.4	5.6	3.9	2.7	2.1

**Security Group 15
PSA Prepayment Assumption Rates**

Distribution Date	Classes KF, KT, XH and YK					Class KS					Class QS				
	0%	100%	275%	450%	600%	0%	100%	275%	450%	600%	0%	100%	275%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	97	95	92	90	99	97	95	92	90	99	97	95	92	90
December 2026	98	92	84	75	68	98	92	83	75	68	98	92	84	75	68
December 2027	97	86	69	55	43	97	86	69	54	43	97	86	69	55	44
December 2028	96	79	57	39	27	96	79	57	39	27	96	80	57	39	27
December 2029	95	74	47	28	17	95	73	47	28	17	95	74	47	28	17
December 2030	93	68	38	20	11	93	68	38	20	11	93	68	38	20	11
December 2031	92	63	31	14	7	92	63	31	14	7	92	63	32	15	7
December 2032	90	58	26	10	4	90	58	26	10	4	90	58	26	10	4
December 2033	89	53	21	7	3	89	53	21	7	3	89	53	21	7	3
December 2034	87	49	17	5	2	87	49	17	5	2	87	49	17	5	2
December 2035	85	45	14	4	1	85	44	14	4	1	85	45	14	4	1
December 2036	83	41	11	3	1	83	40	11	3	1	83	41	11	3	1
December 2037	80	37	9	2	0	80	37	9	2	0	80	37	9	2	0
December 2038	78	34	7	1	0	78	33	7	1	0	78	34	7	1	0
December 2039	75	30	6	1	0	75	30	6	1	0	75	31	6	1	0
December 2040	73	27	5	1	0	73	27	5	1	0	73	27	5	1	0
December 2041	70	24	4	0	0	70	24	4	0	0	70	25	4	0	0
December 2042	66	22	3	0	0	66	21	3	0	0	66	22	3	0	0
December 2043	63	19	2	0	0	63	19	2	0	0	63	19	2	0	0
December 2044	59	17	2	0	0	59	17	2	0	0	59	17	2	0	0
December 2045	55	14	1	0	0	55	14	1	0	0	55	15	1	0	0
December 2046	50	12	1	0	0	50	12	1	0	0	50	13	1	0	0
December 2047	46	10	1	0	0	46	10	1	0	0	46	11	1	0	0
December 2048	40	8	1	0	0	40	8	1	0	0	40	9	1	0	0
December 2049	35	7	0	0	0	35	6	0	0	0	35	7	0	0	0
December 2050	29	5	0	0	0	29	5	0	0	0	29	5	0	0	0
December 2051	22	3	0	0	0	22	3	0	0	0	22	4	0	0	0
December 2052	16	2	0	0	0	16	2	0	0	0	16	2	0	0	0
December 2053	8	1	0	0	0	8	0	0	0	0	8	1	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	20.2	11.3	6.0	4.1	3.3	20.2	11.2	6.0	4.1	3.3	20.2	11.3	6.0	4.1	3.3

**Security Group 16
PSA Prepayment Assumption Rates**

Distribution Date	Class PT				
	0%	100%	275%	450%	600%
Initial Percent	100	100	100	100	100
December 2025	99	97	95	92	90
December 2026	98	92	84	75	68
December 2027	97	86	69	55	44
December 2028	96	79	57	39	27
December 2029	95	74	47	28	17
December 2030	93	68	38	20	11
December 2031	92	63	31	14	7
December 2032	90	58	26	10	4
December 2033	89	53	21	7	3
December 2034	87	49	17	5	2
December 2035	85	45	14	4	1
December 2036	83	41	11	3	1
December 2037	80	37	9	2	0
December 2038	78	34	7	1	0
December 2039	75	30	6	1	0
December 2040	73	27	5	1	0
December 2041	70	24	4	0	0
December 2042	66	22	3	0	0
December 2043	63	19	2	0	0
December 2044	59	17	2	0	0
December 2045	55	15	1	0	0
December 2046	50	12	1	0	0
December 2047	46	10	1	0	0
December 2048	40	8	1	0	0
December 2049	35	7	0	0	0
December 2050	29	5	0	0	0
December 2051	22	3	0	0	0
December 2052	16	2	0	0	0
December 2053	8	1	0	0	0
December 2054	0	0	0	0	0
Weighted Average Life (years)	20.2	11.3	6.0	4.1	3.3

**Security Group 17
PSA Prepayment Assumption Rates**

Distribution Date	Classes FP, LF, LS and TL					Class PA					Class PL				
	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	96	95	95	92	99	95	95	95	95	100	100	100	100	100
December 2026	98	89	87	84	76	97	85	85	85	85	100	100	100	100	100
December 2027	97	80	75	71	57	96	73	73	73	65	100	100	100	100	100
December 2028	96	72	65	59	43	94	61	61	61	45	100	100	100	100	100
December 2029	95	64	57	49	32	93	51	51	51	30	100	100	100	100	100
December 2030	93	58	49	41	24	91	42	42	42	19	100	100	100	100	100
December 2031	92	52	42	34	18	89	33	33	33	10	100	100	100	100	100
December 2032	90	46	36	29	13	87	25	25	25	4	100	100	100	100	100
December 2033	89	41	31	24	10	84	19	19	19	0	100	100	100	100	96
December 2034	87	36	27	20	7	82	13	13	13	0	100	100	100	100	71
December 2035	85	32	23	16	5	79	8	8	8	0	100	100	100	100	53
December 2036	83	29	20	14	4	76	4	4	4	0	100	100	100	100	39
December 2037	80	25	17	11	3	73	1	1	1	0	100	100	100	100	29
December 2038	78	22	14	9	2	70	0	0	0	0	100	89	89	89	21
December 2039	75	19	12	7	2	66	0	0	0	0	100	72	72	72	15
December 2040	73	17	10	6	1	62	0	0	0	0	100	59	59	59	11
December 2041	70	15	9	5	1	58	0	0	0	0	100	48	48	48	8
December 2042	66	13	7	4	1	53	0	0	0	0	100	39	39	39	6
December 2043	63	11	6	3	0	49	0	0	0	0	100	31	31	31	4
December 2044	59	9	5	3	0	43	0	0	0	0	100	25	25	25	3
December 2045	55	8	4	2	0	38	0	0	0	0	100	19	19	19	2
December 2046	50	6	3	2	0	31	0	0	0	0	100	15	15	15	1
December 2047	46	5	3	1	0	25	0	0	0	0	100	11	11	11	1
December 2048	40	4	2	1	0	18	0	0	0	0	100	9	9	9	1
December 2049	35	3	1	1	0	10	0	0	0	0	100	6	6	6	0
December 2050	29	2	1	0	0	2	0	0	0	0	100	4	4	4	0
December 2051	22	2	1	0	0	0	0	0	0	0	51	3	3	3	0
December 2052	16	1	0	0	0	0	0	0	0	0	2	2	2	2	0
December 2053	8	0	0	0	0	0	0	0	0	0	1	1	1	1	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	20.2	9.1	7.6	6.4	4.4	17.1	5.6	5.6	5.6	4.0	27.0	17.8	17.8	17.8	12.1

**Security Group 17
PSA Prepayment Assumption Rates**

Distribution Date	Class PN					Classes UA, UB, UC, UD, UE and UI					Class UN				
	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	100	100	92	92	92	100	100	95	90	75	100	100	96	90	71
December 2026	100	100	73	73	73	100	100	84	69	23	100	100	88	67	8
December 2027	100	100	50	50	0	100	100	71	44	0	100	100	78	42	0
December 2028	100	100	32	32	0	100	100	61	25	0	100	100	70	23	0
December 2029	100	100	19	19	0	100	100	54	13	0	100	100	65	11	0
December 2030	100	100	9	9	0	100	100	49	5	0	100	100	61	4	0
December 2031	100	100	3	3	0	100	100	46	1	0	100	100	59	0	0
December 2032	100	100	0	0	0	100	100	45	0	0	100	100	59	0	0
December 2033	100	95	0	0	0	100	99	44	0	0	100	100	57	0	0
December 2034	100	82	0	0	0	100	96	41	0	0	100	100	54	0	0
December 2035	100	64	0	0	0	100	92	39	0	0	100	100	51	0	0
December 2036	100	42	0	0	0	100	87	36	0	0	100	100	47	0	0
December 2037	100	18	0	0	0	100	81	33	0	0	100	100	43	0	0
December 2038	100	0	0	0	0	100	75	30	0	0	100	98	39	0	0
December 2039	100	0	0	0	0	100	69	27	0	0	100	89	35	0	0
December 2040	100	0	0	0	0	100	62	24	0	0	100	81	31	0	0
December 2041	100	0	0	0	0	100	56	21	0	0	100	73	27	0	0
December 2042	100	0	0	0	0	100	50	18	0	0	100	65	24	0	0
December 2043	100	0	0	0	0	100	44	16	0	0	100	58	21	0	0
December 2044	100	0	0	0	0	100	39	14	0	0	100	50	18	0	0
December 2045	100	0	0	0	0	100	33	11	0	0	100	43	15	0	0
December 2046	100	0	0	0	0	100	28	10	0	0	100	37	12	0	0
December 2047	100	0	0	0	0	100	24	8	0	0	100	31	10	0	0
December 2048	100	0	0	0	0	100	19	6	0	0	100	25	8	0	0
December 2049	100	0	0	0	0	100	15	5	0	0	100	20	6	0	0
December 2050	100	0	0	0	0	100	12	4	0	0	100	15	5	0	0
December 2051	100	0	0	0	0	100	8	2	0	0	100	11	3	0	0
December 2052	53	0	0	0	0	89	5	1	0	0	100	7	2	0	0
December 2053	0	0	0	0	0	46	2	1	0	0	60	3	1	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	28.0	11.5	3.3	3.3	2.0	28.9	18.5	9.5	3.0	1.5	29.2	20.6	11.4	2.9	1.3

**Security Group 18
PSA Prepayment Assumption Rates**

Distribution Date	Classes FM and SM				
	0%	100%	280%	450%	600%
Initial Percent	100	100	100	100	100
December 2025	99	97	94	91	89
December 2026	98	92	82	73	66
December 2027	97	85	68	53	42
December 2028	96	79	56	38	27
December 2029	95	73	46	28	17
December 2030	93	68	37	20	11
December 2031	92	63	30	14	7
December 2032	90	58	25	10	4
December 2033	89	53	20	7	3
December 2034	87	49	16	5	2
December 2035	85	45	13	4	1
December 2036	83	41	11	3	1
December 2037	80	37	9	2	0
December 2038	78	34	7	1	0
December 2039	75	30	6	1	0
December 2040	73	27	4	1	0
December 2041	70	25	4	0	0
December 2042	66	22	3	0	0
December 2043	63	19	2	0	0
December 2044	59	17	2	0	0
December 2045	55	15	1	0	0
December 2046	50	13	1	0	0
December 2047	46	11	1	0	0
December 2048	40	9	1	0	0
December 2049	35	7	0	0	0
December 2050	29	5	0	0	0
December 2051	22	4	0	0	0
December 2052	16	2	0	0	0
December 2053	8	1	0	0	0
December 2054	0	0	0	0	0
Weighted Average					
Life (years)	20.2	11.3	5.9	4.0	3.2

**Security Group 19
PSA Prepayment Assumption Rates**

Distribution Date	Class GA						Classes GC, GD, GE, GH, GI, GJ, XG and YG						Class GY					
	0%	100%	300%	467%	750%	1,000%	0%	100%	300%	467%	750%	1,000%	0%	100%	300%	467%	750%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	95	87	80	68	58	99	95	88	82	71	62	100	100	100	100	100	100
December 2026	98	88	69	55	34	19	98	89	72	59	40	26	100	100	100	100	100	100
December 2027	97	81	54	36	14	1	97	82	58	42	22	10	100	100	100	100	100	100
December 2028	96	74	42	23	3	0	96	76	47	30	12	4	100	100	100	100	100	45
December 2029	95	68	32	13	0	0	95	71	38	21	6	2	100	100	100	100	72	18
December 2030	93	62	24	7	0	0	94	65	31	15	3	1	100	100	100	100	39	7
December 2031	92	56	17	2	0	0	92	60	25	11	2	0	100	100	100	100	21	3
December 2032	90	51	12	0	0	0	91	55	20	7	1	0	100	100	100	84	11	1
December 2033	88	46	8	0	0	0	89	51	16	5	1	0	100	100	100	59	6	0
December 2034	87	42	4	0	0	0	88	47	13	4	0	0	100	100	100	41	3	0
December 2035	84	37	1	0	0	0	86	43	10	3	0	0	100	100	100	29	2	0
December 2036	82	33	0	0	0	0	84	39	8	2	0	0	100	100	91	20	1	0
December 2037	80	29	0	0	0	0	82	35	6	1	0	0	100	100	72	14	0	0
December 2038	77	26	0	0	0	0	79	32	5	1	0	0	100	100	57	10	0	0
December 2039	75	22	0	0	0	0	77	29	4	1	0	0	100	100	45	7	0	0
December 2040	71	19	0	0	0	0	74	26	3	0	0	0	100	100	35	5	0	0
December 2041	68	16	0	0	0	0	71	23	2	0	0	0	100	100	27	3	0	0
December 2042	65	13	0	0	0	0	68	21	2	0	0	0	100	100	21	2	0	0
December 2043	61	10	0	0	0	0	64	18	1	0	0	0	100	100	16	1	0	0
December 2044	57	8	0	0	0	0	60	16	1	0	0	0	100	100	12	1	0	0
December 2045	52	5	0	0	0	0	56	14	1	0	0	0	100	100	9	1	0	0
December 2046	47	3	0	0	0	0	52	11	1	0	0	0	100	100	7	0	0	0
December 2047	42	1	0	0	0	0	47	10	0	0	0	0	100	100	5	0	0	0
December 2048	36	0	0	0	0	0	42	8	0	0	0	0	100	86	3	0	0	0
December 2049	30	0	0	0	0	0	36	6	0	0	0	0	100	66	2	0	0	0
December 2050	23	0	0	0	0	0	30	4	0	0	0	0	100	47	1	0	0	0
December 2051	16	0	0	0	0	0	23	3	0	0	0	0	100	29	1	0	0	0
December 2052	8	0	0	0	0	0	16	1	0	0	0	0	100	12	0	0	0	0
December 2053	0	0	0	0	0	0	8	0	0	0	0	0	95	0	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	19.6	9.3	4.0	2.7	1.7	1.3	20.5	10.8	5.0	3.3	2.1	1.5	29.5	25.9	15.6	10.3	6.1	4.2

**Security Group 20
PSA Prepayment Assumption Rates**

Distribution Date	Classes BX and CX						Classes DX and EX						Classes NF, NS, PF and PS						
	0%	100%	300%	465%	750%	1,000%	0%	100%	300%	465%	750%	1,000%	0%	100%	300%	465%	750%	1,000%	
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	97	93	89	83	78	99	97	93	89	83	78	99	97	93	89	83	78	
December 2026	98	91	79	70	54	42	98	91	79	70	54	42	98	91	79	70	54	42	
December 2027	97	85	64	50	30	17	97	85	64	50	30	17	97	85	64	50	30	17	
December 2028	96	79	52	35	16	7	96	79	52	35	16	7	96	79	52	35	16	7	
December 2029	95	73	42	25	9	3	95	73	42	25	9	3	95	73	42	25	9	3	
December 2030	94	67	34	18	5	1	94	67	34	18	5	1	94	67	34	18	5	1	
December 2031	92	62	27	13	3	0	92	62	27	13	3	0	92	62	27	13	3	0	
December 2032	91	57	22	9	1	0	91	57	22	9	1	0	91	57	22	9	1	0	
December 2033	89	53	18	6	1	0	89	53	18	6	1	0	89	53	18	6	1	0	
December 2034	88	48	14	4	0	0	88	48	14	4	0	0	88	48	14	4	0	0	
December 2035	86	44	11	3	0	0	86	44	11	3	0	0	86	44	11	3	0	0	
December 2036	84	41	9	2	0	0	84	41	9	2	0	0	84	41	9	2	0	0	
December 2037	82	37	7	2	0	0	82	37	7	2	0	0	82	37	7	2	0	0	
December 2038	79	34	6	1	0	0	79	34	6	1	0	0	79	34	6	1	0	0	
December 2039	77	30	4	1	0	0	77	30	4	1	0	0	77	30	4	1	0	0	
December 2040	74	27	4	1	0	0	74	27	4	1	0	0	74	27	4	1	0	0	
December 2041	71	25	3	0	0	0	71	25	3	0	0	0	71	25	3	0	0	0	
December 2042	68	22	2	0	0	0	68	22	2	0	0	0	68	22	2	0	0	0	
December 2043	64	19	2	0	0	0	64	19	2	0	0	0	64	19	2	0	0	0	
December 2044	60	17	1	0	0	0	60	17	1	0	0	0	60	17	1	0	0	0	
December 2045	56	15	1	0	0	0	56	15	1	0	0	0	56	15	1	0	0	0	
December 2046	52	13	1	0	0	0	52	13	1	0	0	0	52	13	1	0	0	0	
December 2047	47	11	1	0	0	0	47	11	1	0	0	0	47	11	1	0	0	0	
December 2048	42	9	0	0	0	0	42	9	0	0	0	0	42	9	0	0	0	0	
December 2049	36	7	0	0	0	0	36	7	0	0	0	0	36	7	0	0	0	0	
December 2050	30	5	0	0	0	0	30	5	0	0	0	0	30	5	0	0	0	0	
December 2051	23	4	0	0	0	0	23	4	0	0	0	0	23	4	0	0	0	0	
December 2052	16	2	0	0	0	0	16	2	0	0	0	0	16	2	0	0	0	0	
December 2053	8	1	0	0	0	0	8	1	0	0	0	0	8	1	0	0	0	0	
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weighted Average Life (years)	20.5	11.2	5.5	3.8	2.5	2.0	20.5	11.2	5.5	3.8	2.5	2.0	20.5	11.2	5.5	3.8	2.5	2.0	

**Security Group 21
PSA Prepayment Assumption Rates**

Distribution Date	Class FN					Class IW						
	0%	100%	300%	495%	750%	1,000%	0%	100%	300%	495%	750%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	94	83	73	59	46	99	94	85	76	64	52
December 2026	98	87	67	50	32	18	98	88	69	53	35	21
December 2027	96	81	54	35	17	7	97	81	56	37	19	8
December 2028	95	75	44	24	9	3	95	75	45	25	10	3
December 2029	94	69	35	17	5	1	94	70	36	18	6	1
December 2030	92	64	29	12	3	0	92	64	29	12	3	0
December 2031	90	59	23	8	1	0	90	59	24	8	2	0
December 2032	88	54	18	6	1	0	89	55	19	6	1	0
December 2033	86	50	15	4	0	0	87	50	15	4	0	0
December 2034	84	46	12	3	0	0	85	46	12	3	0	0
December 2035	82	42	9	2	0	0	82	42	10	2	0	0
December 2036	79	38	8	1	0	0	80	39	8	1	0	0
December 2037	77	35	6	1	0	0	77	35	6	1	0	0
December 2038	74	31	5	1	0	0	74	32	5	1	0	0
December 2039	71	28	4	0	0	0	71	29	4	0	0	0
December 2040	67	25	3	0	0	0	68	26	3	0	0	0
December 2041	64	22	2	0	0	0	65	23	2	0	0	0
December 2042	60	20	2	0	0	0	61	20	2	0	0	0
December 2043	56	17	1	0	0	0	57	18	1	0	0	0
December 2044	51	15	1	0	0	0	52	15	1	0	0	0
December 2045	46	13	1	0	0	0	48	13	1	0	0	0
December 2046	41	11	1	0	0	0	42	11	1	0	0	0
December 2047	35	9	0	0	0	0	37	9	0	0	0	0
December 2048	29	7	0	0	0	0	31	7	0	0	0	0
December 2049	23	5	0	0	0	0	25	5	0	0	0	0
December 2050	16	3	0	0	0	0	18	4	0	0	0	0
December 2051	8	2	0	0	0	0	11	2	0	0	0	0
December 2052	1	0	0	0	0	0	3	0	0	0	0	0
December 2053	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average												
Life (years)	18.5	10.5	4.7	2.9	1.8	1.2	18.8	10.6	4.8	3.0	1.9	1.3

**Security Group 22
PSA Prepayment Assumption Rates**

Distribution Date	Classes IO and QF					
	0%	100%	300%	495%	750%	1,000%
Initial Percent	100	100	100	100	100	100
December 2025	99	95	87	79	68	58
December 2026	98	88	71	55	38	23
December 2027	97	82	57	38	20	9
December 2028	95	76	46	27	11	4
December 2029	94	70	37	18	6	1
December 2030	92	65	30	13	3	1
December 2031	91	60	24	9	2	0
December 2032	89	55	20	6	1	0
December 2033	87	51	16	4	1	0
December 2034	85	47	13	3	0	0
December 2035	83	43	10	2	0	0
December 2036	80	39	8	1	0	0
December 2037	78	36	6	1	0	0
December 2038	75	32	5	1	0	0
December 2039	72	29	4	0	0	0
December 2040	69	26	3	0	0	0
December 2041	65	23	2	0	0	0
December 2042	62	21	2	0	0	0
December 2043	58	18	1	0	0	0
December 2044	54	16	1	0	0	0
December 2045	49	14	1	0	0	0
December 2046	44	11	1	0	0	0
December 2047	39	9	0	0	0	0
December 2048	33	8	0	0	0	0
December 2049	27	6	0	0	0	0
December 2050	20	4	0	0	0	0
December 2051	13	2	0	0	0	0
December 2052	5	1	0	0	0	0
December 2053	0	0	0	0	0	0
Weighted Average						
Life (years)	19.0	10.8	5.0	3.1	2.0	1.4

**Security Group 23
PSA Prepayment Assumption Rates**

Distribution Date	Classes FV, MA, MB, MC, MD, ME, MI and SV					Classes IM, M, MJ, MK, MN and MP					Classes IN, NG, NH, NJ, NP and NQ				
	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%
	Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	97	94	91	89	99	97	94	90	87	99	96	93	89	85
December 2026	98	92	83	73	66	98	90	81	69	60	97	89	79	65	56
December 2027	97	85	70	53	42	96	83	65	45	32	96	81	61	39	25
December 2028	95	79	58	38	26	95	75	51	27	14	94	73	46	20	5
December 2029	94	73	49	27	17	93	68	40	15	2	92	65	34	6	0
December 2030	93	67	40	20	10	91	62	30	6	0	91	58	23	0	0
December 2031	91	62	34	14	7	90	55	22	0	0	89	51	14	0	0
December 2032	89	57	28	10	4	88	50	16	0	0	86	44	7	0	0
December 2033	88	52	23	7	3	86	44	10	0	0	84	38	0	0	0
December 2034	86	48	19	5	2	83	39	5	0	0	82	33	0	0	0
December 2035	84	44	16	4	1	81	34	1	0	0	79	27	0	0	0
December 2036	82	40	13	3	1	78	30	0	0	0	76	22	0	0	0
December 2037	79	36	11	2	0	76	25	0	0	0	73	18	0	0	0
December 2038	77	33	9	1	0	73	21	0	0	0	70	13	0	0	0
December 2039	74	30	7	1	0	70	18	0	0	0	66	9	0	0	0
December 2040	71	27	6	1	0	66	14	0	0	0	63	5	0	0	0
December 2041	68	24	5	0	0	63	11	0	0	0	59	2	0	0	0
December 2042	65	21	4	0	0	59	8	0	0	0	54	0	0	0	0
December 2043	61	19	3	0	0	54	5	0	0	0	50	0	0	0	0
December 2044	57	16	2	0	0	50	2	0	0	0	45	0	0	0	0
December 2045	53	14	2	0	0	45	0	0	0	0	39	0	0	0	0
December 2046	49	12	1	0	0	40	0	0	0	0	34	0	0	0	0
December 2047	44	10	1	0	0	34	0	0	0	0	28	0	0	0	0
December 2048	39	8	1	0	0	29	0	0	0	0	21	0	0	0	0
December 2049	34	7	1	0	0	22	0	0	0	0	14	0	0	0	0
December 2050	28	5	0	0	0	15	0	0	0	0	7	0	0	0	0
December 2051	22	4	0	0	0	8	0	0	0	0	0	0	0	0	0
December 2052	15	2	0	0	0	0	0	0	0	0	0	0	0	0	0
December 2053	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	19.9	11.2	6.3	4.0	3.2	18.3	8.8	4.7	3.0	2.5	17.4	7.8	4.1	2.7	2.2

PSA Prepayment Assumption Rates

Distribution Date	Classes N, NA, NC, ND, NE and NI					Class NB					Class NK				
	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%
	Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	96	92	87	83	100	100	100	100	100	100	100	100	100	100
December 2026	97	88	76	61	50	100	100	100	100	100	100	100	100	100	100
December 2027	95	78	56	31	15	100	100	100	100	100	100	100	100	100	100
December 2028	93	69	39	9	0	100	100	100	100	83	100	100	100	100	40
December 2029	91	60	25	0	0	100	100	100	86	52	100	100	100	50	0
December 2030	89	52	13	0	0	100	100	100	61	33	100	100	100	0	0
December 2031	87	44	3	0	0	100	100	100	44	21	100	100	100	0	0
December 2032	85	37	0	0	0	100	100	87	31	13	100	100	56	0	0
December 2033	82	30	0	0	0	100	100	72	22	8	100	100	4	0	0
December 2034	79	24	0	0	0	100	100	60	16	5	100	100	0	0	0
December 2035	76	18	0	0	0	100	100	49	11	3	100	100	0	0	0
December 2036	73	12	0	0	0	100	100	41	8	2	100	100	0	0	0
December 2037	69	7	0	0	0	100	100	33	6	1	100	100	0	0	0
December 2038	66	2	0	0	0	100	100	27	4	1	100	100	0	0	0
December 2039	62	0	0	0	0	100	93	22	3	0	100	77	0	0	0
December 2040	58	0	0	0	0	100	84	18	2	0	100	44	0	0	0
December 2041	53	0	0	0	0	100	75	14	1	0	100	13	0	0	0
December 2042	48	0	0	0	0	100	67	12	1	0	100	0	0	0	0
December 2043	43	0	0	0	0	100	59	9	1	0	100	0	0	0	0
December 2044	37	0	0	0	0	100	52	7	0	0	100	0	0	0	0
December 2045	31	0	0	0	0	100	45	6	0	0	100	0	0	0	0
December 2046	25	0	0	0	0	100	38	4	0	0	100	0	0	0	0
December 2047	18	0	0	0	0	100	32	3	0	0	100	0	0	0	0
December 2048	10	0	0	0	0	100	27	2	0	0	100	0	0	0	0
December 2049	2	0	0	0	0	100	21	2	0	0	100	0	0	0	0
December 2050	0	0	0	0	0	87	16	1	0	0	55	0	0	0	0
December 2051	0	0	0	0	0	67	11	1	0	0	0	0	0	0	0
December 2052	0	0	0	0	0	47	7	0	0	0	0	0	0	0	0
December 2053	0	0	0	0	0	24	3	0	0	0	0	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	16.2	6.7	3.5	2.4	2.0	27.8	20.8	12.2	7.5	5.8	26.1	15.9	8.1	5.0	3.9

**Security Group 23
PSA Prepayment Assumption Rates**

Distribution Date	Class NL					Class NM					Class NY				
	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2026	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2027	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2028	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2029	100	100	100	100	100	100	100	100	100	24	100	100	100	100	73
December 2030	100	100	100	100	71	100	100	100	61	0	100	100	100	86	46
December 2031	100	100	100	96	45	100	100	100	0	0	100	100	100	62	29
December 2032	100	100	100	68	28	100	100	100	0	0	100	100	100	44	18
December 2033	100	100	100	49	18	100	100	100	0	0	100	100	100	31	11
December 2034	100	100	100	35	11	100	100	55	0	0	100	100	84	22	7
December 2035	100	100	100	25	7	100	100	14	0	0	100	100	69	16	4
December 2036	100	100	88	17	4	100	100	0	0	0	100	100	57	11	3
December 2037	100	100	72	12	3	100	100	0	0	0	100	100	47	8	2
December 2038	100	100	59	9	2	100	100	0	0	0	100	100	38	6	1
December 2039	100	100	48	6	1	100	100	0	0	0	100	100	31	4	1
December 2040	100	100	39	4	1	100	100	0	0	0	100	100	25	3	0
December 2041	100	100	32	3	0	100	100	0	0	0	100	100	20	2	0
December 2042	100	100	25	2	0	100	82	0	0	0	100	94	16	1	0
December 2043	100	100	20	1	0	100	52	0	0	0	100	83	13	1	0
December 2044	100	100	16	1	0	100	23	0	0	0	100	73	10	1	0
December 2045	100	98	12	1	0	100	0	0	0	0	100	63	8	0	0
December 2046	100	83	10	0	0	100	0	0	0	0	100	54	6	0	0
December 2047	100	70	7	0	0	100	0	0	0	0	100	45	5	0	0
December 2048	100	58	5	0	0	100	0	0	0	0	100	37	3	0	0
December 2049	100	46	4	0	0	100	0	0	0	0	100	30	3	0	0
December 2050	100	35	3	0	0	100	0	0	0	0	100	23	2	0	0
December 2051	100	25	2	0	0	85	0	0	0	0	95	16	1	0	0
December 2052	100	15	1	0	0	3	0	0	0	0	65	10	1	0	0
December 2053	52	6	0	0	0	0	0	0	0	0	34	4	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	29.1	24.9	16.0	9.8	7.4	27.4	19.1	10.2	6.2	4.8	28.5	22.8	13.9	8.5	6.5

**Security Group 24
PSA Prepayment Assumption Rates**

Distribution Date	Classes AB, AC, AD, AE, AG and AI					Classes AH, AJ, AN, AP, AQ and IA					Class AK				Class AL						
	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	96	93	90	87	99	97	94	91	88	100	100	100	100	100	100	100	100	100	100	100
December 2026	97	90	80	67	58	98	91	82	70	62	100	100	100	100	100	100	100	100	100	100	100
December 2027	96	81	62	40	26	96	83	66	46	33	100	100	100	100	100	100	100	100	100	100	100
December 2028	94	73	47	21	5	95	76	52	28	14	100	100	100	100	100	100	100	100	100	100	100
December 2029	92	65	34	6	0	93	68	40	15	2	100	100	100	100	24	100	100	100	100	100	100
December 2030	90	58	23	0	0	91	62	30	6	0	100	100	100	60	0	100	100	100	100	100	94
December 2031	88	51	14	0	0	90	56	22	0	0	100	100	100	0	0	100	100	100	100	100	59
December 2032	86	44	6	0	0	88	50	15	0	0	100	100	100	0	0	100	100	100	89	37	
December 2033	84	38	0	0	0	86	44	10	0	0	100	100	100	0	0	100	100	100	64	23	
December 2034	81	33	0	0	0	83	39	5	0	0	100	100	51	0	0	100	100	100	45	14	
December 2035	79	27	0	0	0	81	34	1	0	0	100	100	9	0	0	100	100	100	32	9	
December 2036	76	22	0	0	0	78	30	0	0	0	100	100	0	0	0	100	100	100	23	6	
December 2037	73	17	0	0	0	76	25	0	0	0	100	100	0	0	0	100	100	93	16	3	
December 2038	70	13	0	0	0	73	21	0	0	0	100	100	0	0	0	100	100	76	11	2	
December 2039	66	9	0	0	0	69	17	0	0	0	100	100	0	0	0	100	100	62	8	1	
December 2040	62	5	0	0	0	66	14	0	0	0	100	100	0	0	0	100	100	50	6	1	
December 2041	58	1	0	0	0	62	11	0	0	0	100	100	0	0	0	100	100	41	4	0	
December 2042	54	0	0	0	0	58	7	0	0	0	100	77	0	0	0	100	100	33	3	0	
December 2043	49	0	0	0	0	54	4	0	0	0	100	46	0	0	0	100	100	26	2	0	
December 2044	44	0	0	0	0	50	2	0	0	0	100	18	0	0	0	100	100	21	1	0	
December 2045	39	0	0	0	0	45	0	0	0	0	100	0	0	0	0	100	100	16	1	0	
December 2046	33	0	0	0	0	40	0	0	0	0	100	0	0	0	0	100	100	12	1	0	
December 2047	27	0	0	0	0	34	0	0	0	0	100	0	0	0	0	100	90	9	0	0	
December 2048	20	0	0	0	0	28	0	0	0	0	100	0	0	0	0	100	74	7	0	0	
December 2049	13	0	0	0	0	22	0	0	0	0	100	0	0	0	0	100	59	5	0	0	
December 2050	6	0	0	0	0	15	0	0	0	0	100	0	0	0	0	100	45	3	0	0	
December 2051	0	0	0	0	0	7	0	0	0	0	78	0	0	0	0	100	32	2	0	0	
December 2052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	20	1	0	0	
December 2053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	8	0	0	0	
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weighted Average Life (years)	17.3	7.7	4.1	2.7	2.3	18.3	8.8	4.7	3.1	2.5	27.4	18.9	10.1	6.2	4.8	29.3	25.8	17.1	10.6	8.0	

**Security Group 24
PSA Prepayment Assumption Rates**

Distribution Date	Class AM					Class AY					Classes BT, EH, EJ, EK, EL, IE and SG					Class CY				
	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	100	100	100	100	100	100	100	100	100	100	99	97	95	92	90	100	100	100	100	100
December 2026	100	100	100	100	100	100	100	100	100	100	98	92	84	75	68	100	100	100	100	100
December 2027	100	100	100	100	100	100	100	100	100	100	97	86	71	54	43	100	100	100	100	100
December 2028	100	100	100	100	100	100	100	100	100	100	95	79	59	39	27	100	100	100	100	100
December 2029	100	100	100	100	100	100	100	100	74	94	73	49	28	17	100	100	100	100	100	
December 2030	100	100	100	100	0	100	100	100	86	46	93	68	41	20	11	100	100	100	100	71
December 2031	100	100	100	78	0	100	100	100	62	29	91	62	34	14	7	100	100	100	95	45
December 2032	100	100	100	0	0	100	100	100	44	18	89	57	28	10	4	100	100	100	68	28
December 2033	100	100	100	0	0	100	100	100	31	11	88	53	23	7	3	100	100	100	48	17
December 2034	100	100	100	0	0	100	100	83	22	7	86	48	19	5	2	100	100	100	34	11
December 2035	100	100	100	0	0	100	100	68	16	4	84	44	16	4	1	100	100	100	24	7
December 2036	100	100	44	0	0	100	100	56	11	3	82	40	13	3	1	100	100	86	17	4
December 2037	100	100	0	0	0	100	100	46	8	2	79	37	11	2	0	100	100	71	12	3
December 2038	100	100	0	0	0	100	100	38	6	1	77	33	9	1	0	100	100	58	9	2
December 2039	100	100	0	0	0	100	100	31	4	1	74	30	7	1	0	100	100	47	6	1
December 2040	100	100	0	0	0	100	100	25	3	0	71	27	6	1	0	100	100	38	4	1
December 2041	100	100	0	0	0	100	100	20	2	0	68	24	5	0	0	100	100	31	3	0
December 2042	100	100	0	0	0	100	92	16	1	0	65	22	4	0	0	100	100	25	2	0
December 2043	100	100	0	0	0	100	81	13	1	0	61	19	3	0	0	100	100	20	1	0
December 2044	100	100	0	0	0	100	71	10	1	0	57	17	2	0	0	100	100	16	1	0
December 2045	100	79	0	0	0	100	62	8	0	0	53	14	2	0	0	100	95	12	1	0
December 2046	100	22	0	0	0	100	53	6	0	0	49	12	1	0	0	100	81	9	0	0
December 2047	100	0	0	0	0	100	45	5	0	0	44	10	1	0	0	100	68	7	0	0
December 2048	100	0	0	0	0	100	37	3	0	0	39	9	1	0	0	100	56	5	0	0
December 2049	100	0	0	0	0	100	29	2	0	0	34	7	1	0	0	100	45	4	0	0
December 2050	100	0	0	0	0	100	22	2	0	0	28	5	0	0	0	100	34	3	0	0
December 2051	100	0	0	0	0	92	16	1	0	0	22	4	0	0	0	100	24	2	0	0
December 2052	90	0	0	0	0	64	10	1	0	0	15	2	0	0	0	98	15	1	0	0
December 2053	0	0	0	0	0	33	4	0	0	0	8	1	0	0	0	51	6	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.2	21.5	11.9	7.2	5.6	28.4	22.7	13.8	8.5	6.5	19.9	11.3	6.4	4.1	3.3	29.0	24.8	15.9	9.8	7.4

PSA Prepayment Assumption Rates

Distribution Date	Classes DJ, DK, DL, DM, DN, ID and SH					Classes EA, EB, EC, ED, EG and EI					Classes HA, HB, HC, HD, HE and HI					Classes HJ, HK, HN, HP, HQ and HI				
	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	97	95	92	90	99	97	94	91	88	98	96	93	88	85	99	96	93	90	87
December 2026	98	92	84	75	68	98	91	82	72	64	97	88	77	63	52	97	90	80	67	58
December 2027	97	86	71	54	43	96	84	67	48	36	95	79	57	32	16	96	81	62	41	26
December 2028	95	79	59	39	27	95	77	54	31	18	93	69	39	10	0	94	73	47	21	5
December 2029	94	73	49	28	17	93	70	43	19	6	91	60	25	0	0	92	65	34	6	0
December 2030	93	68	41	20	11	92	63	33	10	0	89	52	13	0	0	90	58	23	0	0
December 2031	91	62	34	14	7	90	57	26	3	0	87	44	2	0	0	88	51	14	0	0
December 2032	89	57	28	10	4	88	52	19	0	0	84	37	0	0	0	86	44	7	0	0
December 2033	88	53	23	7	3	86	47	13	0	0	82	30	0	0	0	84	38	0	0	0
December 2034	86	48	19	5	2	84	42	9	0	0	79	23	0	0	0	82	33	0	0	0
December 2035	84	44	16	4	1	82	37	5	0	0	76	17	0	0	0	79	27	0	0	0
December 2036	82	40	13	3	1	79	33	2	0	0	73	11	0	0	0	76	22	0	0	0
December 2037	79	37	11	2	0	77	28	0	0	0	69	6	0	0	0	73	17	0	0	0
December 2038	77	33	9	1	0	74	25	0	0	0	66	1	0	0	0	70	13	0	0	0
December 2039	74	30	7	1	0	71	21	0	0	0	62	0	0	0	0	66	9	0	0	0
December 2040	71	27	6	1	0	67	17	0	0	0	57	0	0	0	0	62	5	0	0	0
December 2041	68	24	5	0	0	64	14	0	0	0	53	0	0	0	0	58	1	0	0	0
December 2042	65	21	4	0	0	60	11	0	0	0	48	0	0	0	0	54	0	0	0	0
December 2043	61	19	3	0	0	56	8	0	0	0	42	0	0	0	0	49	0	0	0	0
December 2044	57	17	2	0	0	52	6	0	0	0	37	0	0	0	0	44	0	0	0	0
December 2045	53	14	2	0	0	47	3	0	0	0	31	0	0	0	0	39	0	0	0	0
December 2046	49	12	1	0	0	42	1	0	0	0	24	0	0	0	0	33	0	0	0	0
December 2047	44	10	1	0	0	37	0	0	0	0	17	0	0	0	0	27	0	0	0	0
December 2048	39	8	1	0	0	31	0	0	0	0	10	0	0	0	0	21	0	0	0	0
December 2049	34	7	1	0	0	25	0	0	0	0	2	0	0	0	0	14	0	0	0	0
December 2050	28	5	0	0	0	18	0	0	0	0	0	0	0	0	0	6	0	0	0	0
December 2051	22	4	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December 2052	15	2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December 2053	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	19.9	11.2	6.4	4.1	3.3	18.7	9.4	5.0	3.2	2.6	16.1	6.6	3.6	2.4	2.0	17.3	7.7	4.1	2.8	2.3

**Security Group 24
PSA Prepayment Assumption Rates**

Distribution Date	Class HL					Class HM					Class HY					Classes VF and VS					
	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
December 2025	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99	97	95	92	90	
December 2026	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98	92	84	75	68	
December 2027	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	97	86	71	54	43	
December 2028	100	100	100	100	100	100	100	100	100	45	100	100	100	100	84	95	79	59	39	27	
December 2029	100	100	100	100	74	100	100	100	52	0	100	100	100	86	53	94	73	49	28	17	
December 2030	100	100	100	87	47	100	100	100	0	0	100	100	100	62	33	93	68	41	20	11	
December 2031	100	100	100	62	29	100	100	100	0	0	100	100	100	44	21	91	62	34	14	7	
December 2032	100	100	100	44	18	100	100	55	0	0	100	100	87	32	13	89	57	28	10	4	
December 2033	100	100	100	32	11	100	100	2	0	0	100	100	72	23	8	88	53	23	7	3	
December 2034	100	100	83	22	7	100	100	0	0	0	100	100	60	16	5	86	48	19	5	2	
December 2035	100	100	69	16	4	100	100	0	0	0	100	100	49	11	3	84	44	16	4	1	
December 2036	100	100	57	11	3	100	100	0	0	0	100	100	40	8	2	82	40	13	3	1	
December 2037	100	100	46	8	2	100	100	0	0	0	100	100	33	6	1	79	37	11	2	0	
December 2038	100	100	38	6	1	100	100	0	0	0	100	100	27	4	1	77	33	9	1	0	
December 2039	100	100	31	4	1	100	72	0	0	0	100	92	22	3	0	74	30	7	1	0	
December 2040	100	100	25	3	0	100	40	0	0	0	100	83	18	2	0	71	27	6	1	0	
December 2041	100	100	20	2	0	100	9	0	0	0	100	74	14	1	0	68	24	5	0	0	
December 2042	100	92	16	1	0	100	0	0	0	0	100	66	12	1	0	65	21	4	0	0	
December 2043	100	81	13	1	0	100	0	0	0	0	100	58	9	1	0	61	19	3	0	0	
December 2044	100	71	10	1	0	100	0	0	0	0	100	51	7	0	0	57	17	2	0	0	
December 2045	100	62	8	0	0	100	0	0	0	0	100	44	6	0	0	53	14	2	0	0	
December 2046	100	53	6	0	0	100	0	0	0	0	100	38	4	0	0	49	12	1	0	0	
December 2047	100	45	5	0	0	100	0	0	0	0	100	32	3	0	0	44	10	1	0	0	
December 2048	100	37	3	0	0	100	0	0	0	0	100	26	2	0	0	39	9	1	0	0	
December 2049	100	29	2	0	0	100	0	0	0	0	100	21	2	0	0	34	7	1	0	0	
December 2050	100	22	2	0	0	50	0	0	0	0	86	16	1	0	0	28	5	0	0	0	
December 2051	93	16	1	0	0	0	0	0	0	0	66	11	1	0	0	22	4	0	0	0	
December 2052	64	10	1	0	0	0	0	0	0	0	46	7	0	0	0	15	2	0	0	0	
December 2053	33	4	0	0	0	0	0	0	0	0	24	3	0	0	0	8	1	0	0	0	
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weighted Average																					
Life (years)	28.4	22.7	13.9	8.5	6.5	26.0	15.7	8.1	5.1	4.0	27.7	20.7	12.2	7.5	5.8	19.9	11.2	6.4	4.1	3.3	

**Security Group 25
PSA Prepayment Assumption Rates**

Distribution Date	Classes JY, KY, LY, MY and YI					Class PJ					Class UZ										
	0%	200%	300%	375%	600%	0%	200%	300%	375%	600%	0%	200%	300%	375%	600%						
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100						
December 2025	100	100	100	100	100	100	97	93	93	93	93	107	107	97	90	69					
December 2026	100	100	100	100	100	100	94	78	78	78	76	114	114	82	59	0					
December 2027	100	100	100	100	100	100	91	60	60	60	41	121	121	64	24	0					
December 2028	100	100	100	100	100	100	88	44	44	44	17	130	130	55	5	0					
December 2029	100	100	100	100	100	100	84	29	29	29	3	138	138	53	0	0					
December 2030	100	100	100	100	70	100	80	17	17	17	0	148	143	53	0	0					
December 2031	100	100	100	100	44	100	76	7	7	7	0	157	141	50	0	0					
December 2032	100	100	100	100	28	100	71	0	0	0	0	168	135	46	0	0					
December 2033	100	100	100	76	17	100	66	0	0	0	0	179	103	18	0	0					
December 2034	100	100	95	58	11	100	61	0	0	0	0	191	75	0	0	0					
December 2035	100	100	76	44	7	100	55	0	0	0	0	204	50	0	0	0					
December 2036	100	100	60	33	4	100	49	0	0	0	0	218	29	0	0	0					
December 2037	100	100	48	25	3	100	43	0	0	0	0	232	10	0	0	0					
December 2038	100	94	38	18	2	100	36	0	0	0	0	248	0	0	0	0					
December 2039	100	79	30	14	1	100	28	0	0	0	0	264	0	0	0	0					
December 2040	100	67	23	10	1	100	20	0	0	0	0	282	0	0	0	0					
December 2041	100	56	18	8	0	100	11	0	0	0	0	301	0	0	0	0					
December 2042	100	47	14	6	0	100	2	0	0	0	0	321	0	0	0	0					
December 2043	100	38	11	4	0	100	0	0	0	0	0	307	0	0	0	0					
December 2044	100	31	8	3	0	100	0	0	0	0	0	283	0	0	0	0					
December 2045	100	25	6	2	0	100	0	0	0	0	0	257	0	0	0	0					
December 2046	100	20	5	1	0	100	0	0	0	0	0	229	0	0	0	0					
December 2047	100	16	3	1	0	100	0	0	0	0	0	199	0	0	0	0					
December 2048	100	12	2	1	0	100	0	0	0	0	0	166	0	0	0	0					
December 2049	100	9	2	0	0	100	0	0	0	0	0	130	0	0	0	0					
December 2050	100	6	1	0	0	100	0	0	0	0	0	91	0	0	0	0					
December 2051	100	4	1	0	0	100	0	0	0	0	0	50	0	0	0	0					
December 2052	100	2	0	0	0	100	0	0	0	0	0	4	0	0	0	0					
December 2053	54	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0					
December 2054	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0					
Weighted Average																					
Life (years)	29.1	18.6	13.9	11.5	7.4	11.0	3.8	3.8	3.8	2.8	23.8	10.3	5.6	2.3	1.2						

**Security Group 26
PSA Prepayment Assumption Rates**

Distribution Date	Class SP						Class ST						Class WF						
	0%	100%	350%	600%	900%	1,200%	0%	100%	350%	600%	900%	1,200%	0%	100%	350%	600%	900%	1,200%	
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	97	91	85	78	71	99	97	90	84	77	69	99	97	91	85	78	71	
December 2026	99	91	75	61	45	30	99	91	74	59	42	28	99	91	75	61	45	31	
December 2027	98	85	59	38	20	8	98	85	58	37	19	8	98	85	59	39	21	9	
December 2028	97	79	46	24	9	2	97	79	45	24	9	2	97	79	46	24	9	2	
December 2029	96	73	36	15	4	1	96	73	35	15	4	1	96	73	36	15	4	1	
December 2030	95	68	28	10	2	0	95	68	27	9	2	0	95	68	28	10	2	0	
December 2031	94	63	22	6	1	0	94	63	21	6	1	0	94	63	22	6	1	0	
December 2032	92	58	17	4	0	0	92	58	17	4	0	0	92	58	17	4	0	0	
December 2033	91	54	13	2	0	0	91	53	13	2	0	0	91	54	13	2	0	0	
December 2034	89	49	10	2	0	0	89	49	10	1	0	0	89	49	10	2	0	0	
December 2035	88	45	8	1	0	0	88	45	8	1	0	0	88	45	8	1	0	0	
December 2036	86	42	6	1	0	0	86	41	6	1	0	0	86	42	6	1	0	0	
December 2037	84	38	5	0	0	0	84	38	5	0	0	0	84	38	5	0	0	0	
December 2038	82	35	4	0	0	0	82	34	3	0	0	0	82	35	4	0	0	0	
December 2039	79	31	3	0	0	0	79	31	3	0	0	0	79	31	3	0	0	0	
December 2040	77	28	2	0	0	0	77	28	2	0	0	0	77	28	2	0	0	0	
December 2041	74	26	2	0	0	0	74	25	2	0	0	0	74	26	2	0	0	0	
December 2042	71	23	1	0	0	0	71	23	1	0	0	0	71	23	1	0	0	0	
December 2043	67	20	1	0	0	0	67	20	1	0	0	0	67	20	1	0	0	0	
December 2044	64	18	1	0	0	0	64	18	1	0	0	0	64	18	1	0	0	0	
December 2045	59	16	0	0	0	0	59	15	0	0	0	0	59	16	0	0	0	0	
December 2046	55	13	0	0	0	0	55	13	0	0	0	0	55	13	0	0	0	0	
December 2047	50	11	0	0	0	0	50	11	0	0	0	0	50	11	0	0	0	0	
December 2048	45	9	0	0	0	0	45	9	0	0	0	0	45	9	0	0	0	0	
December 2049	39	8	0	0	0	0	39	7	0	0	0	0	39	8	0	0	0	0	
December 2050	32	6	0	0	0	0	32	6	0	0	0	0	32	6	0	0	0	0	
December 2051	25	4	0	0	0	0	25	4	0	0	0	0	25	4	0	0	0	0	
December 2052	18	2	0	0	0	0	18	2	0	0	0	0	18	2	0	0	0	0	
December 2053	9	1	0	0	0	0	9	1	0	0	0	0	9	1	0	0	0	0	
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weighted Average Life (years)	21.0	11.4	4.8	3.0	2.1	1.6	21.0	11.4	4.7	2.9	2.0	1.6	21.0	11.5	4.8	3.0	2.1	1.6	

PSA Prepayment Assumption Rates

Distribution Date	Class WS						Class XW						
	0%	100%	350%	600%	900%	1,200%	0%	100%	350%	600%	900%	1,200%	
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	98	94	90	86	81	99	97	91	84	77	70	
December 2026	99	93	80	68	55	42	99	91	74	59	43	28	
December 2027	98	87	63	44	26	12	98	85	58	38	19	8	
December 2028	97	81	49	28	12	3	97	79	45	24	9	2	
December 2029	96	75	39	18	5	1	96	73	35	15	4	1	
December 2030	95	69	30	11	2	0	95	68	28	9	2	0	
December 2031	94	64	23	7	1	0	94	63	21	6	1	0	
December 2032	92	59	18	4	0	0	92	58	17	4	0	0	
December 2033	91	55	14	3	0	0	91	53	13	2	0	0	
December 2034	89	51	11	2	0	0	89	49	10	1	0	0	
December 2035	88	47	8	1	0	0	88	45	8	1	0	0	
December 2036	86	43	7	1	0	0	86	41	6	1	0	0	
December 2037	84	39	5	0	0	0	84	38	5	0	0	0	
December 2038	82	36	4	0	0	0	82	34	3	0	0	0	
December 2039	79	32	3	0	0	0	79	31	3	0	0	0	
December 2040	77	29	2	0	0	0	77	28	2	0	0	0	
December 2041	74	27	2	0	0	0	74	25	2	0	0	0	
December 2042	71	24	1	0	0	0	71	23	1	0	0	0	
December 2043	67	21	1	0	0	0	67	20	1	0	0	0	
December 2044	64	19	1	0	0	0	64	18	1	0	0	0	
December 2045	59	16	1	0	0	0	59	15	0	0	0	0	
December 2046	55	14	0	0	0	0	55	13	0	0	0	0	
December 2047	50	12	0	0	0	0	50	11	0	0	0	0	
December 2048	45	10	0	0	0	0	45	9	0	0	0	0	
December 2049	39	8	0	0	0	0	39	7	0	0	0	0	
December 2050	32	6	0	0	0	0	32	6	0	0	0	0	
December 2051	25	5	0	0	0	0	25	4	0	0	0	0	
December 2052	18	3	0	0	0	0	18	2	0	0	0	0	
December 2053	9	1	0	0	0	0	9	1	0	0	0	0	
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	
Weighted Average Life (years)	21.0	11.8	5.1	3.3	2.4	1.9	21.0	11.4	4.8	3.0	2.1	1.6	

**Security Group 27
PSA Prepayment Assumption Rates**

Distribution Date	Classes D, DA, DC, DE, DG, DH and DI					Classes DV, IV, VA, VC, VD and VE					Class DZ				
	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%	0%	100%	254%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	98	96	93	88	85	93	93	93	93	93	106	106	106	106	106
December 2026	97	89	77	63	52	86	86	86	86	86	112	112	112	112	112
December 2027	95	79	57	33	16	78	78	78	78	78	118	118	118	118	118
December 2028	93	69	40	10	0	70	70	70	70	36	125	125	125	125	125
December 2029	91	60	25	0	0	61	61	61	32	0	132	132	132	132	97
December 2030	89	52	13	0	0	52	52	52	0	0	139	139	139	113	61
December 2031	87	44	3	0	0	43	43	43	0	0	147	147	147	81	38
December 2032	84	37	0	0	0	33	33	5	0	0	155	155	155	58	24
December 2033	82	30	0	0	0	22	22	0	0	0	164	164	132	41	15
December 2034	79	24	0	0	0	11	11	0	0	0	173	173	109	29	9
December 2035	76	17	0	0	0	0	0	0	0	0	182	182	90	21	6
December 2036	73	12	0	0	0	0	0	0	0	0	182	182	74	15	4
December 2037	69	6	0	0	0	0	0	0	0	0	182	182	61	10	2
December 2038	66	1	0	0	0	0	0	0	0	0	182	182	49	7	1
December 2039	62	0	0	0	0	0	0	0	0	0	182	168	40	5	1
December 2040	57	0	0	0	0	0	0	0	0	0	182	151	33	4	1
December 2041	53	0	0	0	0	0	0	0	0	0	182	136	26	2	0
December 2042	48	0	0	0	0	0	0	0	0	0	182	121	21	2	0
December 2043	43	0	0	0	0	0	0	0	0	0	182	106	17	1	0
December 2044	37	0	0	0	0	0	0	0	0	0	182	93	13	1	0
December 2045	31	0	0	0	0	0	0	0	0	0	182	81	10	1	0
December 2046	24	0	0	0	0	0	0	0	0	0	182	69	8	0	0
December 2047	17	0	0	0	0	0	0	0	0	0	182	58	6	0	0
December 2048	10	0	0	0	0	0	0	0	0	0	182	48	5	0	0
December 2049	2	0	0	0	0	0	0	0	0	0	182	38	3	0	0
December 2050	0	0	0	0	0	0	0	0	0	0	156	29	2	0	0
December 2051	0	0	0	0	0	0	0	0	0	0	121	21	1	0	0
December 2052	0	0	0	0	0	0	0	0	0	0	84	13	1	0	0
December 2053	0	0	0	0	0	0	0	0	0	0	43	5	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	16.2	6.7	3.6	2.4	2.0	6.0	6.0	5.4	4.1	3.4	27.8	20.8	13.0	8.4	6.6

**Security Group 28
PSA Prepayment Assumption Rates**

Distribution Date	Class DY					Classes FY, IJ, JH, JK, JN, JP, JQ and SY					Class JA				
	0%	100%	280%	450%	600%	0%	100%	280%	450%	600%	0%	100%	280%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	100	100	100	100	100	99	97	95	92	90	99	96	93	89	86
December 2026	100	100	100	100	100	98	92	83	75	68	97	89	77	65	55
December 2027	100	100	100	100	100	97	86	69	55	44	96	80	56	37	21
December 2028	100	100	100	100	97	96	80	56	39	27	94	72	39	15	0
December 2029	100	100	100	99	61	95	74	46	28	17	92	63	25	0	0
December 2030	100	100	100	71	38	93	68	38	20	11	91	56	13	0	0
December 2031	100	100	100	51	24	92	63	31	15	7	89	48	3	0	0
December 2032	100	100	89	37	15	90	58	25	10	4	86	41	0	0	0
December 2033	100	100	72	26	9	89	53	21	7	3	84	35	0	0	0
December 2034	100	100	59	19	6	87	49	17	5	2	82	29	0	0	0
December 2035	100	100	48	13	4	85	45	14	4	1	79	23	0	0	0
December 2036	100	100	38	9	2	83	41	11	3	1	76	18	0	0	0
December 2037	100	100	31	7	1	80	37	9	2	0	73	12	0	0	0
December 2038	100	100	25	5	1	78	34	7	1	0	69	8	0	0	0
December 2039	100	100	20	3	1	75	31	6	1	0	66	3	0	0	0
December 2040	100	97	16	2	0	73	28	5	1	0	62	0	0	0	0
December 2041	100	87	13	2	0	70	25	4	0	0	57	0	0	0	0
December 2042	100	78	10	1	0	66	22	3	0	0	53	0	0	0	0
December 2043	100	69	8	1	0	63	20	2	0	0	48	0	0	0	0
December 2044	100	61	6	1	0	59	17	2	0	0	43	0	0	0	0
December 2045	100	53	5	0	0	55	15	1	0	0	37	0	0	0	0
December 2046	100	45	4	0	0	50	13	1	0	0	31	0	0	0	0
December 2047	100	38	3	0	0	46	11	1	0	0	24	0	0	0	0
December 2048	100	32	2	0	0	40	9	1	0	0	17	0	0	0	0
December 2049	100	25	1	0	0	35	7	0	0	0	9	0	0	0	0
December 2050	100	20	1	0	0	29	6	0	0	0	1	0	0	0	0
December 2051	79	14	1	0	0	22	4	0	0	0	0	0	0	0	0
December 2052	55	9	0	0	0	16	3	0	0	0	0	0	0	0	0
December 2053	28	4	0	0	0	8	1	0	0	0	0	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.1	21.8	12.0	8.0	6.1	20.2	11.4	6.0	4.1	3.3	17.0	7.2	3.6	2.6	2.1

**Security Group 28
PSA Prepayment Assumption Rates**

Distribution Date	Classes JB, JC, JD, JE, JG and JI					Class JL					Class JM				
	0%	100%	280%	450%	600%	0%	100%	280%	450%	600%	0%	100%	280%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	99	97	93	90	88	100	100	100	100	100	100	100	100	100	100
December 2026	98	91	79	69	60	100	100	100	100	100	100	100	100	100	100
December 2027	96	83	61	44	30	100	100	100	100	100	100	100	100	100	100
December 2028	95	75	46	25	10	100	100	100	100	100	100	100	100	100	90
December 2029	93	68	34	11	0	100	100	100	100	91	100	100	100	98	0
December 2030	92	61	23	1	0	100	100	100	100	57	100	100	100	12	0
December 2031	90	54	15	0	0	100	100	100	76	36	100	100	100	0	0
December 2032	88	48	8	0	0	100	100	100	54	22	100	100	65	0	0
December 2033	86	42	2	0	0	100	100	100	39	14	100	100	15	0	0
December 2034	84	37	0	0	0	100	100	87	28	9	100	100	0	0	0
December 2035	81	32	0	0	0	100	100	71	20	5	100	100	0	0	0
December 2036	79	27	0	0	0	100	100	57	14	3	100	100	0	0	0
December 2037	76	23	0	0	0	100	100	46	10	2	100	100	0	0	0
December 2038	73	18	0	0	0	100	100	37	7	1	100	100	0	0	0
December 2039	70	14	0	0	0	100	100	30	5	1	100	100	0	0	0
December 2040	66	11	0	0	0	100	100	24	3	0	100	92	0	0	0
December 2041	62	7	0	0	0	100	100	19	2	0	100	61	0	0	0
December 2042	58	4	0	0	0	100	100	15	2	0	100	33	0	0	0
December 2043	54	1	0	0	0	100	100	12	1	0	100	5	0	0	0
December 2044	49	0	0	0	0	100	90	9	1	0	100	0	0	0	0
December 2045	44	0	0	0	0	100	78	7	1	0	100	0	0	0	0
December 2046	39	0	0	0	0	100	67	5	0	0	100	0	0	0	0
December 2047	33	0	0	0	0	100	57	4	0	0	100	0	0	0	0
December 2048	26	0	0	0	0	100	47	3	0	0	100	0	0	0	0
December 2049	19	0	0	0	0	100	38	2	0	0	100	0	0	0	0
December 2050	12	0	0	0	0	100	29	1	0	0	100	0	0	0	0
December 2051	4	0	0	0	0	100	21	1	0	0	36	0	0	0	0
December 2052	0	0	0	0	0	81	13	0	0	0	0	0	0	0	0
December 2053	0	0	0	0	0	42	6	0	0	0	0	0	0	0	0
December 2054	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.2	8.4	4.1	2.9	2.4	28.8	24.0	13.8	9.1	6.9	26.8	17.4	8.3	5.6	4.3

**Security Group 29
PSA Prepayment Assumption Rates**

Distribution Date	Class KA						Classes KE, SF, TG, XK and YE						Class KL					
	0%	100%	300%	486%	750%	1,000%	0%	100%	300%	486%	750%	1,000%	0%	100%	300%	486%	750%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
December 2025	100	97	94	90	85	80	100	98	94	91	87	82	100	100	100	100	100	100
December 2026	99	92	80	69	54	40	99	93	82	73	60	48	100	100	100	100	100	100
December 2027	99	85	63	44	23	8	99	87	67	51	33	20	100	100	100	100	100	100
December 2028	98	79	48	27	6	0	98	82	55	36	18	8	100	100	100	100	100	60
December 2029	98	73	37	14	0	0	98	76	45	26	10	3	100	100	100	100	76	24
December 2030	97	67	27	6	0	0	97	71	36	18	5	1	100	100	100	100	42	9
December 2031	96	61	19	0	0	0	97	66	30	13	3	0	100	100	100	97	23	4
December 2032	96	56	13	0	0	0	96	62	24	9	2	0	100	100	100	68	12	1
December 2033	95	51	8	0	0	0	95	58	20	6	1	0	100	100	100	48	7	1
December 2034	94	47	3	0	0	0	95	54	16	4	0	0	100	100	100	34	4	0
December 2035	93	42	0	0	0	0	94	50	13	3	0	0	100	100	100	24	2	0
December 2036	92	38	0	0	0	0	93	46	10	2	0	0	100	100	81	17	1	0
December 2037	91	35	0	0	0	0	92	43	8	1	0	0	100	100	65	12	1	0
December 2038	90	31	0	0	0	0	91	40	7	1	0	0	100	100	53	8	0	0
December 2039	89	28	0	0	0	0	90	37	6	1	0	0	100	100	43	6	0	0
December 2040	87	24	0	0	0	0	89	34	4	1	0	0	100	100	35	4	0	0
December 2041	86	21	0	0	0	0	88	32	4	0	0	0	100	100	28	3	0	0
December 2042	84	19	0	0	0	0	86	29	3	0	0	0	100	100	22	2	0	0
December 2043	82	16	0	0	0	0	85	27	2	0	0	0	100	100	18	1	0	0
December 2044	81	13	0	0	0	0	83	25	2	0	0	0	100	100	14	1	0	0
December 2045	79	11	0	0	0	0	81	23	1	0	0	0	100	100	12	1	0	0
December 2046	76	9	0	0	0	0	79	21	1	0	0	0	100	100	9	0	0	0
December 2047	74	7	0	0	0	0	77	19	1	0	0	0	100	100	7	0	0	0
December 2048	71	5	0	0	0	0	75	17	1	0	0	0	100	100	6	0	0	0
December 2049	69	3	0	0	0	0	73	16	1	0	0	0	100	100	5	0	0	0
December 2050	66	1	0	0	0	0	70	14	0	0	0	0	100	100	4	0	0	0
December 2051	62	0	0	0	0	0	67	13	0	0	0	0	100	97	3	0	0	0
December 2052	59	0	0	0	0	0	64	11	0	0	0	0	100	87	2	0	0	0
December 2053	55	0	0	0	0	0	61	10	0	0	0	0	100	77	2	0	0	0
December 2054	51	0	0	0	0	0	57	9	0	0	0	0	100	68	1	0	0	0
December 2055	46	0	0	0	0	0	53	8	0	0	0	0	100	59	1	0	0	0
December 2056	42	0	0	0	0	0	49	7	0	0	0	0	100	51	1	0	0	0
December 2057	36	0	0	0	0	0	45	6	0	0	0	0	100	43	1	0	0	0
December 2058	31	0	0	0	0	0	40	5	0	0	0	0	100	36	0	0	0	0
December 2059	25	0	0	0	0	0	34	4	0	0	0	0	100	29	0	0	0	0
December 2060	18	0	0	0	0	0	28	3	0	0	0	0	100	22	0	0	0	0
December 2061	11	0	0	0	0	0	22	2	0	0	0	0	100	16	0	0	0	0
December 2062	3	0	0	0	0	0	15	1	0	0	0	0	100	10	0	0	0	0
December 2063	0	0	0	0	0	0	8	1	0	0	0	0	62	4	0	0	0	0
December 2064	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	27.7	10.6	4.4	3.0	2.2	1.8	29.2	13.5	5.9	3.9	2.7	2.1	39.2	32.5	15.6	9.8	6.2	4.5

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 21 and 22 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, an Inverse Floating Rate or a Weighted Average Coupon Class, the investor's own projection of levels of 30-day Average SOFR under a variety of scenarios.

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

Prepayments: Effect on Yields

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

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

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

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

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

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

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

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

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

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

Payment Delay: Effect on Yields of the Fixed Rate Classes

The effective yield on any Fixed Rate Class will be less than the yield otherwise produced by its Interest Rate and purchase price because, on each Distribution Date, 30 days’ interest will be payable on

(or added to the principal amount of) that Class even though interest began to accrue approximately 50 days earlier.

Yield Tables

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

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

The yields were calculated by

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

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

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

SECURITY GROUP 1

**Sensitivity of Class SA to Prepayments
Assumed Price 4.5%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>350%</u>	<u>600%</u>	<u>900%</u>	<u>1,200%</u>
3.72533%	64.4%	51.7%	38.5%	21.9%	4.4%
4.72533%	37.7%	24.3%	10.3%	(7.5)%	(26.4)%
5.63767%	14.3%	0.0%	(15.3)%	(35.0)%	(56.6)%
6.55000% and above	**	**	**	**	**

SECURITY GROUP 2

**Sensitivity of Class CI to Prepayments
Assumed Price 20.3%***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>280%</u>	<u>291%</u>	<u>450%</u>	<u>600%</u>
20.2%	1.3%	0.1%	(17.1)%	(31.8)%

**Sensitivity of Class CS to Prepayments
Assumed Price 8.5%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>280%</u>	<u>450%</u>	<u>600%</u>
3.72533%	19.8%	10.2%	0.8%	(7.7)%
4.72533%	6.3%	(3.8)%	(13.9)%	(23.1)%
5.31267%	(2.7)%	(13.0)%	(23.3)%	(33.0)%
5.90000% and above	**	**	**	**

**Sensitivity of Class IC to Prepayments
Assumed Price 23.5%***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>280%</u>	<u>450%</u>	<u>459%</u>	<u>600%</u>
19.6%	9.9%	0.5%	0.0%	(8.0)%

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

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

SECURITY GROUP 3

Sensitivity of Class SB to Prepayments

Assumed Price 4.3%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>445%</u>	<u>650%</u>	<u>900%</u>
3.85579%	28.5%	20.2%	9.0%	(3.4)%	(19.3)%
4.85579%	1.8%	(7.0)%	(19.0)%	(32.5)%	(50.7)%
5.07790%	(5.6)%	(14.4)%	(26.5)%	(40.2)%	(59.4)%
5.30000% and above	**	**	**	**	**

Sensitivity of Class SL to Prepayments

Assumed Price 5.5%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>445%</u>	<u>650%</u>	<u>900%</u>
3.59690%	41.1%	33.9%	24.5%	14.3%	1.5%
4.59690%	20.0%	12.2%	1.8%	(9.7)%	(24.1)%
5.29845%	5.1%	(3.2)%	(14.5)%	(27.1)%	(43.4)%
6.00000% and above	**	**	**	**	**

Sensitivity of Class SN to Prepayments

Assumed Price 4.5%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>445%</u>	<u>650%</u>	<u>900%</u>
3.59690%	51.5%	42.5%	30.3%	16.7%	(1.0)%
4.59690%	25.8%	16.7%	4.4%	(9.4)%	(27.7)%
5.29845%	8.1%	(1.0)%	(13.5)%	(27.6)%	(46.5)%
6.00000% and above	**	**	**	**	**

Sensitivity of Class SX to Prepayments

Assumed Price 5.0%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>445%</u>	<u>650%</u>	<u>900%</u>
3.59690%	45.9%	38.1%	27.8%	16.5%	2.3%
4.59690%	22.7%	14.5%	3.4%	(8.7)%	(24.3)%
5.29845%	6.5%	(2.0)%	(13.7)%	(26.8)%	(43.9)%
6.00000% and above	**	**	**	**	**

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

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

SECURITY GROUP 4

**Sensitivity of Class GS to Prepayments
Assumed Price 5.25%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>185%</u>	<u>300%</u>	<u>400%</u>
3.72533%	39.5%	35.3%	29.6%	24.5%
4.72533%	17.6%	13.1%	6.8%	1.2%
5.33767%	4.0%	(0.8)%	(7.4)%	(13.4)%
5.95000% and above	**	**	**	**

**Sensitivity of Class S to Prepayments
Assumed Price 5.5%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>185%</u>	<u>300%</u>	<u>400%</u>
3.59757%	38.6%	34.2%	28.0%	22.5%
4.59757%	17.8%	13.1%	6.6%	0.8%
5.24879%	4.1%	(0.8)%	(7.6)%	(13.7)%
5.90000% and above	**	**	**	**

**Sensitivity of Class SW to Prepayments
Assumed Price 7.8%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>185%</u>	<u>300%</u>	<u>400%</u>
3.59690%	26.3%	22.0%	16.1%	10.9%
4.59690%	11.6%	7.0%	0.7%	(4.9)%
5.29845%	0.7%	(4.1)%	(10.7)%	(16.7)%
6.00000% and above	**	**	**	**

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>185%</u>	<u>300%</u>	<u>400%</u>
5.900% and below	(5.7)%	(10.6)%	(17.5)%	(23.7)%
5.925%	(10.9)%	(15.8)%	(22.6)%	(28.8)%
5.950% and above	**	**	**	**

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

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

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>185%</u>	<u>300%</u>	<u>400%</u>
5.90% and below	1.9%	(2.9)%	(9.5)%	(15.5)%
5.95%	(5.4)%	(10.2)%	(16.9)%	(23.0)%
6.00% and above	**	**	**	**

SECURITY GROUP 5

**Sensitivity of Class SD to Prepayments
Assumed Price 3.0%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>490%</u>	<u>750%</u>	<u>1,000%</u>
3.73403%	74.5%	61.5%	48.6%	29.6%	9.7%
4.73403%	34.6%	22.0%	9.3%	(9.5)%	(29.4)%
5.31702%	12.6%	0.1%	(12.6)%	(31.5)%	(51.8)%
5.90000% and above	**	**	**	**	**

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>490%</u>	<u>750%</u>	<u>1,000%</u>
5.90% and below . . .	1.1%	(11.2)%	(23.8)%	(42.7)%	(63.8)%
5.95%	(6.1)%	(18.3)%	(30.7)%	(49.8)%	(71.6)%
6.00% and above . . .	**	**	**	**	**

SECURITY GROUP 6

**Sensitivity of Class SE to Prepayments
Assumed Price 1.1%**

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>350%</u>	<u>550%</u>	<u>700%</u>
3.22364%	139.0%	128.5%	119.9%	113.4%
3.66576%	85.4%	74.3%	65.1%	58.1%
4.10788%	37.0%	24.3%	13.8%	5.8%
4.55000% and above	**	**	**	**

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

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

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>350%</u>	<u>550%</u>	<u>700%</u>
4.55% and below	3.1%	(11.7)%	(24.3)%	(34.3)%
4.60%	(3.4)%	(18.4)%	(31.6)%	(42.5)%
4.65% and above	**	**	**	**

SECURITY GROUP 7

**Sensitivity of Class ES to Prepayments
Assumed Price 2.4%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>350%</u>	<u>636%</u>	<u>950%</u>	<u>1,300%</u>
3.69922%	106.0%	94.5%	80.9%	65.4%	47.3%
4.69922%	52.6%	40.1%	25.1%	8.0%	(12.1)%
5.32461%	21.9%	8.1%	(8.6)%	(28.1)%	(51.5)%
5.95000% and above	**	**	**	**	**

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>350%</u>	<u>636%</u>	<u>950%</u>	<u>1,300%</u>
5.950% and below	(3.3)%	(18.4)%	(37.7)%	(62.2)%	(93.2)%
5.975%	(7.7)%	(22.8)%	(42.8)%	(68.8)%	**
6.000% and above	**	**	**	**	**

SECURITY GROUP 8

**Sensitivity of Class AS to Prepayments
Assumed Price 2.5%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.69922%	62.7%	49.8%	38.7%	18.1%	(1.7)%
4.69922%	16.5%	4.0%	(7.0)%	(27.5)%	(47.7)%
4.98961%	3.2%	(9.2)%	(20.1)%	(40.7)%	(61.5)%
5.28000% and above	**	**	**	**	**

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

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

Sensitivity of Class DS to Prepayments
Assumed Price 2.6%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.63164%	62.9%	50.1%	39.0%	18.4%	(1.4)%
4.63164%	18.5%	5.9%	(5.0)%	(25.6)%	(45.8)%
4.95582%	4.2%	(8.2)%	(19.1)%	(39.7)%	(60.5)%
5.28000% and above	**	**	**	**	**

Sensitivity of Class SK to Prepayments
Assumed Price 2.6%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.68444%	60.4%	47.6%	36.5%	15.9%	(3.9)%
4.68444%	16.2%	3.6%	(7.3)%	(27.9)%	(48.1)%
4.98222%	3.0%	(9.4)%	(20.3)%	(40.9)%	(61.7)%
5.28000% and above	**	**	**	**	**

Sensitivity of Class SQ to Prepayments
Assumed Price 2.65%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.59555%	68.9%	56.0%	44.8%	24.2%	4.4%
4.59555%	24.6%	12.1%	1.1%	(19.4)%	(39.4)%
4.99778%	7.5%	(5.0)%	(15.9)%	(36.5)%	(57.1)%
5.40000% and above	**	**	**	**	**

Sensitivity of Class TA to Prepayments
Assumed Price 1.0%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
5.28% and below	(13.0)%	(24.8)%	(35.3)%	(56.9)%	(80.1)%
5.29%	(17.0)%	(28.6)%	(39.0)%	(61.5)%	(85.5)%
5.30% and above	**	**	**	**	**

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

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

**Sensitivity of Class XD to Prepayments
Assumed Price 2.6%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.63164%	63.9%	51.0%	39.9%	19.3%	(0.5)%
4.63164%	19.3%	6.8%	(4.2)%	(24.7)%	(44.9)%
4.96582%	4.7%	(7.7)%	(18.6)%	(39.3)%	(60.0)%
5.30000% and above	**	**	**	**	**

SECURITY GROUP 9

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>445%</u>	<u>650%</u>	<u>900%</u>
3.15847%	38.7%	31.0%	20.7%	9.5%	(4.7)%
3.63898%	22.6%	14.5%	3.6%	(8.3)%	(23.6)%
4.11949%	6.6%	(2.0)%	(13.6)%	(26.5)%	(43.5)%
4.60000% and above	**	**	**	**	**

**Sensitivity of Class SC to Prepayments
Assumed Price 8.0%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>445%</u>	<u>650%</u>	<u>900%</u>
3.63898%	24.3%	16.3%	5.5%	(6.4)%	(21.5)%
4.63898%	10.1%	1.7%	(9.8)%	(22.5)%	(39.0)%
5.31949%	(0.3)%	(9.0)%	(20.8)%	(34.2)%	(52.0)%
6.00000% and above	**	**	**	**	**

SECURITY GROUP 10

**Sensitivity of Class SJ to Prepayments
Assumed Price 7.15%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>445%</u>	<u>650%</u>	<u>900%</u>
3.63164%	29.4%	21.7%	11.4%	0.2%	(13.9)%
4.63164%	13.5%	5.3%	(5.8)%	(18.0)%	(33.7)%
5.34082%	1.6%	(6.9)%	(18.6)%	(31.6)%	(48.9)%
6.05000% and above	**	**	**	**	**

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

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

**Sensitivity of Class US to Prepayments
Assumed Price 6.5%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>445%</u>	<u>650%</u>	<u>900%</u>
3.63164%	33.4%	25.8%	15.6%	4.6%	(9.2)%
4.63164%	15.8%	7.6%	(3.3)%	(15.4)%	(30.8)%
5.34082%	2.9%	(5.6)%	(17.2)%	(30.2)%	(47.3)%
6.05000% and above	**	**	**	**	**

**Sensitivity of Class XS to Prepayments
Assumed Price 6.9%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>250%</u>	<u>445%</u>	<u>650%</u>	<u>900%</u>
3.63164%	30.8%	23.2%	12.9%	1.8%	(12.2)%
4.63164%	14.3%	6.1%	(4.9)%	(17.1)%	(32.7)%
5.34082%	2.1%	(6.4)%	(18.1)%	(31.1)%	(48.3)%
6.05000% and above	**	**	**	**	**

SECURITY GROUP 11

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>486%</u>	<u>750%</u>	<u>1,000%</u>
5.300% and below	4.7%	(14.2)%	(30.4)%	(29.4)%	(46.6)%
5.375%	(6.7)%	(29.3)%	(47.9)%	(41.0)%	(60.0)%
5.450% and above	**	**	**	**	**

**Sensitivity of Class JS to Prepayments
Assumed Price 2.0%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>486%</u>	<u>750%</u>	<u>1,000%</u>
3.67083%	88.4%	79.0%	70.1%	57.1%	44.3%
4.67083%	27.6%	16.9%	6.5%	(8.9)%	(24.2)%
4.98542%	9.9%	(1.6)%	(12.9)%	(29.9)%	(47.2)%
5.30000% and above	**	**	**	**	**

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

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

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>486%</u>	<u>750%</u>	<u>1,000%</u>
5.30% and below . . .	3.5%	(22.8)%	(46.6)%	(43.6)%	(45.2)%
5.37%	(7.0)%	(38.9)%	(65.7)%	(61.7)%	(58.8)%
5.44% and above . . .	**	**	**	**	**

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>486%</u>	<u>750%</u>	<u>1,000%</u>
5.300% and below	(3.4)%	(15.3)%	(27.2)%	(46.3)%	(66.5)%
5.325%	(7.8)%	(19.7)%	(31.8)%	(52.1)%	(73.6)%
5.350% and above	**	**	**	**	**

**Sensitivity of Class TS to Prepayments
Assumed Price 2.1%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>486%</u>	<u>750%</u>	<u>1,000%</u>
3.61658%	85.0%	74.1%	64.1%	60.3%	49.3%
4.61658%	26.6%	12.1%	(1.1)%	(4.5)%	(19.0)%
4.95829%	6.6%	(11.8)%	(27.7)%	(27.3)%	(44.2)%
5.30000% and above	**	**	**	**	**

**Sensitivity of Class XA to Prepayments
Assumed Price 2.3%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>486%</u>	<u>750%</u>	<u>1,000%</u>
3.61658%	84.6%	73.7%	63.7%	59.9%	48.9%
4.61658%	31.1%	17.1%	4.3%	0.7%	(13.4)%
5.03329%	9.1%	(8.7)%	(24.2)%	(24.6)%	(41.1)%
5.45000% and above	**	**	**	**	**

**Sensitivity of Class YS to Prepayments
Assumed Price 2.0%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>486%</u>	<u>750%</u>	<u>1,000%</u>
3.66396%	88.6%	79.1%	70.1%	58.2%	45.7%
4.66396%	27.8%	16.7%	6.1%	(8.0)%	(23.2)%
4.98198%	9.7%	(2.2)%	(13.6)%	(29.4)%	(46.7)%
5.30000% and above	**	**	**	**	**

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

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

SECURITY GROUP 12

**Sensitivity of Class MS to Prepayments
Assumed Price 2.7%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>280%</u>	<u>450%</u>	<u>600%</u>
3.59450%	37.1%	28.1%	19.4%	11.5%
4.59450%	(7.8)%	(18.2)%	(28.5)%	(38.3)%
4.64725%	(12.6)%	(22.8)%	(33.2)%	(43.0)%
4.70000% and above	**	**	**	**

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>280%</u>	<u>450%</u>	<u>600%</u>
3.62428%	36.8%	27.7%	19.0%	11.1%
4.62428%	2.9%	(7.4)%	(17.5)%	(26.9)%
4.81214%	(4.9)%	(15.2)%	(25.6)%	(35.3)%
5.00000% and above	**	**	**	**

SECURITY GROUP 13

**Sensitivity of Class BI to Prepayments
Assumed Price 10.7%***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>111%</u>	<u>146%</u>	<u>250%</u>	<u>400%</u>
7.8%	6.1%	0.2%	(19.7)%	(51.6)%

**Sensitivity of Class IB to Prepayments
Assumed Price 12.2%***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>111%</u>	<u>163%</u>	<u>250%</u>	<u>400%</u>
8.1%	6.8%	0.1%	(12.7)%	(37.9)%

SECURITY GROUP 14

**Sensitivity of Class HS to Prepayments
Assumed Price 5.4%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.73403%	23.7%	13.2%	4.2%	(12.0)%	(26.9)%
4.73403%	2.3%	(9.2)%	(19.1)%	(37.6)%	(55.4)%
5.01702%	(5.2)%	(16.8)%	(26.9)%	(46.1)%	(65.4)%
5.30000% and above	**	**	**	**	**

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

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

SECURITY GROUP 15

**Sensitivity of Class KS to Prepayments
Assumed Price 5.25%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>275%</u>	<u>450%</u>	<u>600%</u>
3.61658%	28.3%	19.6%	10.5%	2.6%
4.61658%	6.4%	(3.3)%	(13.4)%	(22.4)%
4.98329%	(2.7)%	(12.6)%	(23.1)%	(32.6)%
5.35000% and above	**	**	**	**

**Sensitivity of Class QS to Prepayments
Assumed Price 5.0%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>275%</u>	<u>450%</u>	<u>600%</u>
3.61658%	30.3%	21.6%	12.7%	4.8%
4.61658%	7.4%	(2.3)%	(12.4)%	(21.4)%
4.98329%	(2.0)%	(12.0)%	(22.5)%	(32.0)%
5.35000% and above	**	**	**	**

**Sensitivity of Class XH to Prepayments
Assumed Price 5.15%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>275%</u>	<u>450%</u>	<u>600%</u>
3.61658%	29.1%	20.3%	11.4%	3.5%
4.61658%	6.8%	(2.9)%	(13.0)%	(22.0)%
4.98329%	(2.4)%	(12.4)%	(22.9)%	(32.4)%
5.35000% and above	**	**	**	**

SECURITY GROUP 17

**Sensitivity of Class LS to Prepayments
Assumed Price 9.1%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>
3.61658%	17.9%	15.2%	12.5%	4.3%
4.61658%	5.2%	2.4%	(0.4)%	(9.1)%
5.30829%	(4.5)%	(7.3)%	(10.2)%	(19.2)%
6.00000% and above	**	**	**	**

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

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

Sensitivity of Class TL to Prepayments
Assumed Price 1.7%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>
6.0% and below	15.0%	12.3%	9.6%	1.2%
6.2%	1.1%	(1.7)%	(4.6)%	(13.4)%
6.4% and above	**	**	**	**

Sensitivity of Class UI to Prepayments
Assumed Price 30.9%*

<u>PSA Prepayment Assumption Rates</u>				
<u>150%</u>	<u>200%</u>	<u>231%</u>	<u>250%</u>	<u>400%</u>
18.9%	9.4%	0.0%	(23.1)%	(87.4)%

SECURITY GROUP 18

Sensitivity of Class SM to Prepayments
Assumed Price 1.3%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>280%</u>	<u>450%</u>	<u>600%</u>
3.56023%	69.7%	61.5%	53.6%	46.4%
3.85682%	42.4%	33.6%	25.0%	17.3%
4.15341%	16.5%	6.7%	(2.8)%	(11.5)%
4.45000% and above	**	**	**	**

SECURITY GROUP 19

Sensitivity of Class GI to Prepayments
Assumed Price 13.6%*

<u>PSA Prepayment Assumption Rates</u>					
<u>100%</u>	<u>300%</u>	<u>467%</u>	<u>728%</u>	<u>750%</u>	<u>1,000%</u>
43.6%	30.6%	19.2%	0.0%	(1.7)%	(22.1)%

Sensitivity of Class XG to Prepayments
Assumed Price 5.25%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>467%</u>	<u>750%</u>	<u>1,000%</u>
3.59757%	57.0%	43.9%	32.3%	11.3%	(9.2)%
4.59757%	34.6%	21.8%	10.4%	(10.4)%	(30.9)%
5.62379%	12.5%	(0.1)%	(11.3)%	(32.0)%	(52.8)%
6.65000% 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 20

**Sensitivity of Class BX to Prepayments
Assumed Price 3.3%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.63898%	28.6%	17.7%	8.4%	(8.5)%	(24.3)%
4.63898%	(9.0)%	(20.7)%	(30.9)%	(50.9)%	(71.5)%
4.69449%	(13.6)%	(25.1)%	(35.3)%	(55.8)%	(77.5)%
4.75000% and above ...	**	**	**	**	**

**Sensitivity of Class CX to Prepayments
Assumed Price 7.1%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.63898%	28.5%	17.6%	8.2%	(8.7)%	(24.4)%
4.63898%	12.5%	1.1%	(8.8)%	(26.9)%	(44.2)%
5.31949%	1.0%	(10.7)%	(20.9)%	(40.0)%	(58.8)%
6.00000% and above	**	**	**	**	**

**Sensitivity of Class DX to Prepayments
Assumed Price 3.6%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.63898%	25.4%	14.4%	5.0%	(12.1)%	(28.1)%
4.63898%	(9.7)%	(21.3)%	(31.5)%	(51.7)%	(72.5)%
4.69449%	(14.1)%	(25.6)%	(35.8)%	(56.6)%	(78.4)%
4.75000% and above ...	**	**	**	**	**

**Sensitivity of Class EX to Prepayments
Assumed Price 7.6%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.63898%	25.9%	15.0%	5.6%	(11.5)%	(27.5)%
4.63898%	11.0%	(0.4)%	(10.3)%	(28.6)%	(46.0)%
5.31949%	0.1%	(11.6)%	(21.8)%	(41.0)%	(59.9)%
6.00000% and above	**	**	**	**	**

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

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

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.63898%	27.5%	16.6%	7.2%	(9.8)%	(25.6)%
4.63898%	(9.2)%	(20.9)%	(31.1)%	(51.0)%	(71.6)%
4.69449%	(13.8)%	(25.3)%	(35.4)%	(55.8)%	(77.4)%
4.75000% and above ...	**	**	**	**	**

**Sensitivity of Class PS to Prepayments
Assumed Price 7.3%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>465%</u>	<u>750%</u>	<u>1,000%</u>
3.63898%	27.4%	16.5%	7.1%	(9.9)%	(25.7)%
4.63898%	11.9%	0.4%	(9.4)%	(27.6)%	(44.9)%
5.31949%	0.6%	(11.1)%	(21.3)%	(40.4)%	(59.2)%
6.00000% and above	**	**	**	**	**

SECURITY GROUP 21

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

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>495%</u>	<u>750%</u>	<u>1,000%</u>
5.350% and below ...	16.4%	3.0%	(10.9)%	(31.0)%	(53.4)%
5.725%	10.4%	(2.8)%	(16.6)%	(36.4)%	(58.8)%
6.100% and above ...	**	**	**	**	**

SECURITY GROUP 22

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

<u>PSA Prepayment Assumption Rates</u>					
<u>100%</u>	<u>300%</u>	<u>495%</u>	<u>731%</u>	<u>750%</u>	<u>1,000%</u>
45.9%	32.4%	18.3%	0.0%	(1.6)%	(23.3)%

SECURITY GROUP 23

**Sensitivity of Class IM to Prepayments
Assumed Price 24.0%***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>254%</u>	<u>272%</u>	<u>450%</u>	<u>600%</u>
14.5%	1.7%	0.0%	(16.4)%	(30.0)%

* 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.

**Sensitivity of Class IN to Prepayments
Assumed Price 22.3%***

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>251%</u>	<u>254%</u>	<u>450%</u>	<u>600%</u>
15.1%	0.1%	(0.3)%	(20.9)%	(35.5)%

**Sensitivity of Class MI to Prepayments
Assumed Price 27.75%***

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>254%</u>	<u>334%</u>	<u>450%</u>	<u>600%</u>
13.0%	4.5%	0.1%	(6.6)%	(15.5)%

**Sensitivity of Class NI to Prepayments
Assumed Price 20.3%***

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>233%</u>	<u>254%</u>	<u>450%</u>	<u>600%</u>
15.9%	0.1%	(2.5)%	(25.7)%	(41.1)%

**Sensitivity of Class SV to Prepayments
Assumed Price 10.5%***

<u>30-day Average SOFR</u>	PSA Prepayment Assumption Rates			
	<u>100%</u>	<u>254%</u>	<u>450%</u>	<u>600%</u>
3.59555%	17.2%	8.9%	(2.0)%	(10.7)%
4.59555%	6.2%	(2.4)%	(13.9)%	(23.2)%
5.32278%	(2.8)%	(11.6)%	(23.4)%	(33.1)%
6.05000% and above	**	**	**	**

SECURITY GROUP 24

**Sensitivity of Class AI to Prepayments
Assumed Price 18.4%***

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>254%</u>	<u>331%</u>	<u>450%</u>	<u>600%</u>
21.4%	7.5%	0.0%	(11.3)%	(24.6)%

**Sensitivity of Class EI to Prepayments
Assumed Price 20.9%***

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>254%</u>	<u>357%</u>	<u>450%</u>	<u>600%</u>
19.1%	8.1%	0.1%	(7.4)%	(19.3)%

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

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

Sensitivity of Class HI to Prepayments
Assumed Price 17.4%*

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>254%</u>	<u>295%</u>	<u>450%</u>	<u>600%</u>
21.5%	4.7%	0.0%	(16.6)%	(30.8)%

Sensitivity of Class IA to Prepayments
Assumed Price 20.1%*

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>254%</u>	<u>348%</u>	<u>450%</u>	<u>600%</u>
19.8%	7.9%	0.0%	(8.7)%	(21.1)%

Sensitivity of Class ID to Prepayments
Assumed Price 24.8%*

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>254%</u>	<u>392%</u>	<u>450%</u>	<u>600%</u>
15.7%	7.6%	0.0%	(3.2)%	(11.7)%

Sensitivity of Class IE to Prepayments
Assumed Price 23.7%*

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>254%</u>	<u>415%</u>	<u>450%</u>	<u>600%</u>
16.9%	8.8%	0.0%	(1.9)%	(10.4)%

Sensitivity of Class IH to Prepayments
Assumed Price 19.3%*

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>254%</u>	<u>310%</u>	<u>450%</u>	<u>600%</u>
19.8%	5.6%	0.1%	(13.4)%	(26.9)%

Sensitivity of Class SG to Prepayments
Assumed Price 8.2%*

<u>30-day Average SOFR</u>	PSA Prepayment Assumption Rates			
	<u>100%</u>	<u>254%</u>	<u>450%</u>	<u>600%</u>
3.59555%	24.1%	16.3%	6.0%	(2.1)%
4.59555%	10.2%	1.8%	(9.3)%	(18.1)%
5.29778%	(0.4)%	(9.1)%	(20.7)%	(30.1)%
6.00000% and above	**	**	**	**

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

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

**Sensitivity of Class SH to Prepayments
Assumed Price 8.85%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>254%</u>	<u>450%</u>	<u>600%</u>
3.59555%	21.6%	13.7%	3.2%	(5.0)%
4.59555%	8.7%	0.2%	(11.0)%	(19.9)%
5.29778%	(1.3)%	(10.0)%	(21.7)%	(31.1)%
6.00000% and above	**	**	**	**

**Sensitivity of Class VS to Prepayments
Assumed Price 8.5%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>254%</u>	<u>450%</u>	<u>600%</u>
3.59555%	22.9%	15.0%	4.7%	(3.5)%
4.59555%	9.4%	1.0%	(10.1)%	(19.0)%
5.29778%	(0.8)%	(9.5)%	(21.2)%	(30.6)%
6.00000% and above	**	**	**	**

SECURITY GROUP 25

**Sensitivity of Class YI to Prepayments
Assumed Price 27.5%***

<u>PSA Prepayment Assumption Rates</u>				
<u>200%</u>	<u>300%</u>	<u>375%</u>	<u>600%</u>	<u>1,023%</u>
24.0%	22.9%	21.7%	16.1%	0.0%

SECURITY GROUP 26

**Sensitivity of Class SP to Prepayments
Assumed Price 8.6%***

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>350%</u>	<u>600%</u>	<u>900%</u>	<u>1,200%</u>
3.59690%	31.2%	17.3%	2.5%	(16.4)%	(36.8)%
4.59690%	18.0%	3.6%	(11.7)%	(31.7)%	(53.5)%
5.62345%	4.2%	(10.6)%	(26.7)%	(48.1)%	(72.3)%
6.65000% and above ...	**	**	**	**	**

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

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

Sensitivity of Class ST to Prepayments
Assumed Price 6.4%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>350%</u>	<u>600%</u>	<u>900%</u>	<u>1,200%</u>
3.59690%	45.5%	31.5%	16.7%	(2.2)%	(22.7)%
4.59690%	27.4%	13.0%	(2.4)%	(22.2)%	(43.9)%
5.62345%	9.1%	(5.8)%	(21.9)%	(43.1)%	(67.1)%
6.65000% and above	**	**	**	**	**

Sensitivity of Class WS to Prepayments
Assumed Price 9.75%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>350%</u>	<u>600%</u>	<u>900%</u>	<u>1,200%</u>
3.59690%	27.0%	14.2%	1.0%	(15.6)%	(32.6)%
4.59690%	15.2%	1.7%	(12.5)%	(30.4)%	(49.3)%
5.62345%	2.7%	(11.5)%	(26.8)%	(46.9)%	(68.7)%
6.65000% and above	**	**	**	**	**

Sensitivity of Class XW to Prepayments
Assumed Price 7.1%*

<u>30-day Average SOFR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>350%</u>	<u>600%</u>	<u>900%</u>	<u>1,200%</u>
3.59690%	39.9%	25.9%	11.2%	(7.8)%	(28.2)%
4.59690%	23.7%	9.3%	(6.0)%	(25.9)%	(47.6)%
5.62345%	7.2%	(7.7)%	(23.7)%	(45.0)%	(69.1)%
6.65000% and above	**	**	**	**	**

SECURITY GROUP 27

Sensitivity of Class DI to Prepayments
Assumed Price 15.9%*

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>254%</u>	<u>338%</u>	<u>450%</u>	<u>600%</u>
25.2%	9.1%	0.0%	(11.5)%	(25.4)%

Sensitivity of Class IV to Prepayments
Assumed Price 19.45%*

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>254%</u>	<u>450%</u>	<u>561%</u>	<u>600%</u>
15.8%	14.1%	5.9%	0.0%	(2.1)%

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

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

SECURITY GROUP 28

**Sensitivity of Class IJ to Prepayments
Assumed Price 22.2%***

PSA Prepayment Assumption Rates				
100%	280%	450%	453%	600%
18.8%	9.4%	0.2%	0.0%	(8.2)%

**Sensitivity of Class JI to Prepayments
Assumed Price 17.6%***

PSA Prepayment Assumption Rates				
100%	280%	436%	450%	600%
27.3%	13.2%	0.0%	(1.2)%	(13.5)%

**Sensitivity of Class SY to Prepayments
Assumed Price 9.3%***

30-day Average SOFR	PSA Prepayment Assumption Rates			
	100%	280%	450%	600%
3.59757%	28.4%	19.3%	10.6%	2.7%
4.59757%	16.1%	6.5%	(2.9)%	(11.4)%
5.62379%	3.0%	(7.1)%	(17.1)%	(26.4)%
6.65000% and above	**	**	**	**

SECURITY GROUP 29

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

30-day Average SOFR	PSA Prepayment Assumption Rates				
	100%	300%	486%	750%	1,000%
5.90% and below ...	3.2%	(8.5)%	(20.0)%	(37.6)%	(55.7)%
5.95%	(3.3)%	(15.2)%	(27.0)%	(45.8)%	(65.5)%
6.00% and above ...	**	**	**	**	**

**Sensitivity of Class XK to Prepayments
Assumed Price 3.0%***

30-day Average SOFR	PSA Prepayment Assumption Rates				
	100%	300%	486%	750%	1,000%
3.59757%	83.2%	74.2%	65.7%	53.4%	41.4%
4.59757%	42.0%	32.0%	22.6%	8.7%	(4.9)%
5.24879%	16.9%	5.9%	(4.8)%	(20.6)%	(36.4)%
5.90000% 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 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 26	600%
2, 12, 18 and 28	280%
3, 9 and 10	445%
4	185%
5	490%
6	350%
7	636%
8, 14 and 20	465%
11 and 29	486%
13	111%
15 and 16	275%
17	200%
19	467%
21 and 22	495%
23, 24 and 27	254%
25	300%

In the case of the Floating Rate Classes, the interest rate values to be used for these determinations are the initial Interest Rates as set forth in the Terms Sheet under “Interest Rates.” No representation is

made, however, about the rate at which prepayments on the Mortgage Loans underlying any Group of Trust Assets actually will occur or the level of 30-day Average SOFR at any time after the date of this Supplement. See *“Certain United States Federal Income Tax Consequences” in the Base Offering Circular.*

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

Residual Securities

The Class 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 from (1) December 1, 2024 on the Fixed Rate Classes and (2) December 20, 2024 on the Floating Rate, Inverse Floating Rate and Weighted Average Coupon 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.

Schedule I

Available Combinations(1)

REMIC Securities		MX Securities						
Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 2								
Combination 1(6)								
CA	\$ 20,910,000	C	\$ 20,910,000	SEQ	4.00%	FIX	38385BFV7	March 2051
		CD	20,910,000	SEQ	4.25	FIX	38385BFW5	March 2051
		CE	20,910,000	SEQ	4.50	FIX	38385BFX3	March 2051
		CG	20,910,000	SEQ	4.75	FIX	38385BFY1	March 2051
		CI	3,485,000	NTL(SEQ)	6.00	FIX/IO	38385BFZ8	March 2051
Combination 2(6)								
CA	\$ 20,910,000	CH	\$ 28,950,646	PT	4.00%	FIX	38385BGA2	December 2054
CL	8,040,646	CJ	28,950,646	PT	4.25	FIX	38385BGB0	December 2054
		CK	28,950,646	PT	4.50	FIX	38385BGC8	December 2054
		CM	28,950,646	PT	4.75	FIX	38385BGD6	December 2054
		CN	28,950,646	PT	5.00	FIX	38385BGE4	December 2054
		IC	4,825,107	NTL(PT)	6.00	FIX/IO	38385BGF1	December 2054
Security Group 3								
Combination 3								
SL	\$ 62,388,714	SX	\$ 100,000,000	NTL(PT)	(5)	INV/IO	38385BGG9	December 2054
SN	37,611,286							
Security Group 4								
Combination 4								
YA	\$ 40,609,647	FG	\$ 45,000,000	SEQ/AD/PT	(5)	FLT(7)	38385BGH7	December 2054
YB	4,390,353							
Security Group 8								
Combination 5								
AS	\$250,000,000	SK	\$320,000,000	NTL(PT)	(5)	INV/IO	38385BGJ3	December 2054
DS	70,000,000							

REMIC Securities

MX Securities

Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Combination 6								
DS	\$ 70,000,000	XD	\$ 70,000,000	NTL(PT)	(5)	INV/IO	38385BGGK0	December 2054
TA	70,000,000							
Security Group 10								
Combination 7								
SJ	\$ 53,000,000	XS	\$ 100,000,000	NTL(PT)	(5)	INV/IO	38385BGL8	December 2054
US	47,000,000							
Security Group 11								
Combination 8								
JS	\$ 172,469,945	YS	\$ 197,469,945	NTL(PT/TAC/AD)	(5)	INV/IO	38385BGM6	December 2064
TS	25,000,000							
Combination 9								
IT	\$ 25,000,000	XA	\$ 25,000,000	NTL(TAC/AD)	(5)	INV/IO	38385BGN4	December 2064
TS	25,000,000							
Security Group 13								
Combination 10(6)								
BA	\$ 129,963,000	BH	\$ 179,957,000	SEQ	2.00%	FIX	38385BGP9	May 2051
BK	26,180,000	BJ	179,957,000	SEQ	2.50	FIX	38385BGQ7	May 2051
BM	23,814,000	BN	179,957,000	SEQ	3.00	FIX	38385BGR5	May 2051
		BP	119,971,333	SEQ	3.50	FIX	38385BGS3	May 2051
		IB	59,985,666	NTL(SEQ)	3.00	FIX/IO	38385BGT1	May 2051
Combination 11								
BM	\$ 23,814,000	BL	\$ 69,331,974	SEQ	3.00%	FIX	38385BGU8	December 2054
BV	13,094,000							
BZ	32,423,974							
Combination 12								
BV	\$ 13,094,000	BY	\$ 45,517,974	SEQ	3.00%	FIX	38385BGV6	December 2054
BZ	32,423,974							

REMIC Securities

MX Securities

Class	REMIC Securities		MX Securities					
	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Combination 13(6)								
BA	\$129,963,000	BC	\$156,143,000	SEQ	2.00%	FIX	38385BGW4	April 2049
BK	26,180,000	BD	156,143,000	SEQ	2.50	FIX	38385BGX2	April 2049
		BE	156,143,000	SEQ	3.00	FIX	38385BGY0	April 2049
		BG	104,095,333	SEQ	3.50	FIX	38385BGZ7	April 2049
		BI	52,047,666	NTL(SEQ)	3.00	FIX/IO	38385BHA1	April 2049
Combination 14								
BA	\$129,963,000	B	\$225,474,974	PT	3.00%	FIX	38385BHB9	December 2054
BK	26,180,000							
BM	23,814,000							
BV	13,094,000							
BZ	32,423,974							
Security Group 15								
Combination 15								
KS	\$ 53,886,344	XH	\$ 93,000,000	NTL(PT)	(5)	INV/IO	38385BHC7	December 2054
QS	39,113,656							
Security Group 17								
Combination 16								
IF	\$ 83,521,806	FP	\$ 83,521,806	PT	(5)	FLT	38385BHD5	December 2054
TL	83,521,806							
Combination 17(6)								
PN	\$ 2,230,000	UA	\$ 9,606,204	SUP	4.50%	FIX	38385BHE3	December 2054
UN	7,376,204	UB	9,606,204	SUP	4.25	FIX	38385BHF0	December 2054
		UC	9,606,204	SUP	4.00	FIX	38385BHG8	December 2054
		UD	6,404,136	SUP	4.75	FIX	38385BHH6	December 2054
		UE	4,803,102	SUP	5.00	FIX	38385BHJ2	December 2054
		UI	800,517	NTL(SUP)	6.00	FIX/IO	38385BHK9	December 2054

REMIC Securities

MX Securities

Class	REMIC Securities		MX Securities					
	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 19								
Combination 18(6)								
GA	\$ 71,650,000	GC	\$ 78,625,644	PT	4.50%	FIX	38385BHL7	December 2054
GY	6,975,644	GD	78,625,644	PT	4.75	FIX	38385BHM5	December 2054
		GE	78,625,644	PT	5.00	FIX	38385BHN3	December 2054
		GH	52,417,096	PT	5.25	FIX	38385BHP8	December 2054
		GI	6,048,126	NTL(PT)	6.50	FIX/IO	38385BHQ6	December 2054
		GJ	39,312,822	PT	5.50	FIX	38385BHR4	December 2054
Security Group 20								
Combination 19								
BX	\$ 46,000,000	NS	\$ 75,000,000	NTL(PT)	(5)	INV/IO	38385BHS2	December 2054
DX	29,000,000							
Combination 20								
CX	\$ 46,000,000	PS	\$ 75,000,000	NTL(PT)	(5)	INV/IO	38385BHT0	December 2054
EX	29,000,000							
Security Group 23								
Combination 21(6)								
NA	\$122,513,000	MA	\$180,000,000	PT	4.00%	FIX	38385BHU7	December 2054
NK	16,569,000	MB	180,000,000	PT	4.25	FIX	38385BHV5	December 2054
NL	26,376,000	MC	180,000,000	PT	4.50	FIX	38385BHW3	December 2054
NM	14,542,000	MD	120,000,000	PT	4.75	FIX	38385BHX1	December 2054
		ME	90,000,000	PT	5.00	FIX	38385BHY9	December 2054
		MI	16,363,636	NTL(PT)	5.50	FIX/IO	38385BHZ6	December 2054
Combination 22(6)								
NA	\$122,513,000	N	\$122,513,000	SEQ	4.00%	FIX	38385BJA9	April 2050
		NC	122,513,000	SEQ	4.25	FIX	38385BJB7	April 2050
		ND	81,675,333	SEQ	4.75	FIX	38385BJC5	April 2050
		NE	61,256,500	SEQ	5.00	FIX	38385BJD3	April 2050
		NI	11,137,545	NTL(SEQ)	5.50	FIX/IO	38385BJE1	April 2050

REMIC Securities

MX Securities

Class	REMIC Securities		MX Securities						
	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)	
Combination 23(6)									
NA	\$122,513,000	IM	\$ 13,965,818	NTL(SEQ)	5.50%	FIX/IO	38385BJF8	January 2053	
NK	16,569,000	M	153,624,000	SEQ	4.50	FIX	38385BJG6	January 2053	
NM	14,542,000	MJ	153,624,000	SEQ	4.00	FIX	38385BJH4	January 2053	
		MK	153,624,000	SEQ	4.25	FIX	38385BJJ0	January 2053	
		MN	102,416,000	SEQ	4.75	FIX	38385BJK7	January 2053	
		MP	76,812,000	SEQ	5.00	FIX	38385BJL5	January 2053	
Combination 24									
NK	\$ 16,569,000	NB	\$ 57,487,000	SEQ	4.50%	FIX	38385BJM3	December 2054	
NL	26,376,000								
NM	14,542,000								
Combination 25(6)									
NA	\$122,513,000	IN	\$ 12,643,818	NTL(SEQ)	5.50%	FIX/IO	38385BJN1	October 2051	
NK	16,569,000	NG	139,082,000	SEQ	4.00	FIX	38385BJP6	October 2051	
		NH	139,082,000	SEQ	4.25	FIX	38385BJQ4	October 2051	
		NJ	139,082,000	SEQ	4.50	FIX	38385BJR2	October 2051	
		NP	92,721,333	SEQ	4.75	FIX	38385BJS0	October 2051	
		NQ	69,541,000	SEQ	5.00	FIX	38385BJT8	October 2051	
Combination 26									
NL	\$ 26,376,000	NY	\$ 40,918,000	SEQ	4.50%	FIX	38385BJU5	December 2054	
NM	14,542,000								
Security Group 24									
Combination 27(6)									
HA	\$ 81,046,000	DJ	\$120,000,000	PT	4.00%	FIX	38385BJV3	December 2054	
HL	27,813,000	DK	120,000,000	PT	4.25	FIX	38385BJW1	December 2054	
HM	11,141,000	DL	120,000,000	PT	4.50	FIX	38385BJX9	December 2054	
		DM	80,000,000	PT	4.75	FIX	38385BJY7	December 2054	
		DN	60,000,000	PT	5.00	FIX	38385BJZ4	December 2054	
		ID	10,909,090	NTL(PT)	5.50	FIX/IO	38385BKA7	December 2054	

REMIC Securities

MX Securities

Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Combination 28								
HL	\$ 27,813,000	HY	\$ 38,954,000	SEQ	4.50%	FIX	38385BKB5	December 2054
HM	11,141,000							
Combination 29								
AL	\$ 25,981,000	CY	\$ 34,247,000	SEQ	5.00%	FIX	38385BKC3	December 2054
AM	8,266,000							
Combination 30(6)								
AB	\$172,399,000	BT	\$225,000,000	PT	5.00%	FIX	38385BKD1	December 2054
AK	18,354,000	EH	225,000,000	PT	4.50	FIX	38385BKE9	December 2054
AL	25,981,000	EJ	225,000,000	PT	4.75	FIX	38385BKF6	December 2054
AM	8,266,000	EK	150,000,000	PT	5.25	FIX	38385BKG4	December 2054
		EL	112,500,000	PT	5.50	FIX	38385BKH2	December 2054
		IE	20,454,545	NTL(PT)	5.50	FIX/IO	38385BKJ8	December 2054
Combination 31								
SG	\$ 75,000,000	VS	\$155,000,000	NTL(PT)	(5)	INV/IO	38385BKK5	December 2054
SH	80,000,000							
Combination 32(6)								
AB	\$172,399,000	AC	\$172,399,000	SEQ	4.50%	FIX	38385BKL3	September 2051
		AD	172,399,000	SEQ	4.75	FIX	38385BKM1	September 2051
		AE	114,932,666	SEQ	5.25	FIX	38385BKN9	September 2051
		AG	86,199,500	SEQ	5.50	FIX	38385BKP4	September 2051
		AI	15,672,636	NTL(SEQ)	5.50	FIX/IO	38385BKQ2	September 2051
Combination 33(6)								
HA	\$ 81,046,000	HJ	\$ 92,187,000	SEQ	4.00%	FIX	38385BKR0	September 2051
HM	11,141,000	HK	92,187,000	SEQ	4.25	FIX	38385BKS8	September 2051
		HN	92,187,000	SEQ	4.50	FIX	38385BKT6	September 2051
		HP	61,458,000	SEQ	4.75	FIX	38385BKU3	September 2051
		HQ	46,093,500	SEQ	5.00	FIX	38385BKV1	September 2051
		IH	8,380,636	NTL(SEQ)	5.50	FIX/IO	38385BKW9	September 2051

REMIC Securities

MX Securities

Class	REMIC Securities		MX Securities						
	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)	
Combination 34(6)									
HA	\$ 81,046,000	HB	\$ 81,046,000	SEQ	4.00%	FIX	38385BKX7	March 2050	
		HC	81,046,000	SEQ	4.25	FIX	38385BKY5	March 2050	
		HD	54,030,666	SEQ	4.75	FIX	38385BKZ2	March 2050	
		HE	40,523,000	SEQ	5.00	FIX	38385BLA6	March 2050	
		HI	7,367,818	NTL(SEQ)	5.50	FIX/IO	38385BLB4	March 2050	
Combination 35(6)									
AB	\$172,399,000	AH	\$190,753,000	SEQ	4.50%	FIX	38385BLC2	December 2052	
AK	18,354,000	AJ	190,753,000	SEQ	4.75	FIX	38385BLD0	December 2052	
		AN	190,753,000	SEQ	5.00	FIX	38385BLE8	December 2052	
		AP	127,168,666	SEQ	5.25	FIX	38385BLF5	December 2052	
		AQ	95,376,500	SEQ	5.50	FIX	38385BLG3	December 2052	
		IA	17,341,181	NTL(SEQ)	5.50	FIX/IO	38385BLH1	December 2052	
Combination 36(6)									
AB	\$172,399,000	EA	\$199,019,000	SEQ	4.50%	FIX	38385BLJ7	June 2053	
AK	18,354,000	EB	199,019,000	SEQ	4.75	FIX	38385BLK4	June 2053	
AM	8,266,000	EC	199,019,000	SEQ	5.00	FIX	38385BLL2	June 2053	
		ED	132,679,333	SEQ	5.25	FIX	38385BLM0	June 2053	
		EG	99,509,500	SEQ	5.50	FIX	38385BLN8	June 2053	
		EI	18,092,636	NTL(SEQ)	5.50	FIX/IO	38385BLP3	June 2053	
Combination 37									
AK	\$ 18,354,000	AY	\$ 52,601,000	SEQ	5.00%	FIX	38385BLQ1	December 2054	
AL	25,981,000								
AM	8,266,000								
Security Group 25									
Combination 38(6)									
JY	\$ 10,584,087	KY	\$ 10,584,087	SEQ	5.50%	FIX	38385BLR9	December 2054	
		LY	10,584,087	SEQ	6.00	FIX	38385BLS7	December 2054	
		MY	7,056,058	SEQ	7.00	FIX	38385BLT5	December 2054	
		YI	1,628,321	NTL(SEQ)	6.50	FIX/IO	38385BLU2	December 2054	

REMIC Securities

MX Securities

Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 26								
Combination 39								
SP	\$ 28,349,199	XW	\$ 92,045,335	NTL(PT)	(5)	INV/IO	38385BLV0	December 2054
ST	63,696,136							
Security Group 27								
Combination 40(6)								
DV	\$ 16,340,000	IV	\$ 2,970,909	NTL(SEQ/AD)	5.50%	FIX/IO	38385BLW8	November 2035
		VA	16,340,000	SEQ/AD	4.75	FIX	38385BLX6	November 2035
		VC	16,340,000	SEQ/AD	5.00	FIX	38385BLY4	November 2035
		VD	16,340,000	SEQ/AD	4.50	FIX	38385BLZ1	November 2035
		VE	16,340,000	SEQ/AD	5.25	FIX	38385BMA5	November 2035
Combination 41(6)								
DA	\$ 56,129,000	D	\$ 56,129,000	SEQ	4.50%	FIX	38385BMB3	March 2050
		DE	56,129,000	SEQ	4.75	FIX	38385BMC1	March 2050
		DG	56,129,000	SEQ	5.00	FIX	38385BMD9	March 2050
		DH	56,129,000	SEQ	5.25	FIX	38385BME7	March 2050
		DI	10,205,272	NTL(SEQ)	5.50	FIX/IO	38385BMF4	March 2050
Security Group 28								
Combination 42(6)								
JA	\$ 85,841,000	IJ	\$ 10,909,090	NTL(PT)	5.50%	FIX/IO	38385BMG2	December 2054
JL	22,970,000	JH	120,000,000	PT	4.50	FIX	38385BMH0	December 2054
JM	11,189,000	JK	120,000,000	PT	4.75	FIX	38385BMJ6	December 2054
		JN	120,000,000	PT	5.00	FIX	38385BMK3	December 2054
		JP	80,000,000	PT	5.25	FIX	38385BML1	December 2054
		JQ	60,000,000	PT	5.50	FIX	38385BMM9	December 2054
Combination 43								
JL	\$ 22,970,000	DY	\$ 34,159,000	SEQ	5.00%	FIX	38385BMN7	December 2054
JM	11,189,000							

REMIC Securities

MX Securities

Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Combination 44(6)								
JA	\$ 85,841,000	JB	\$ 97,030,000	SEQ	4.50%	FIX	38385BMP2	June 2052
JM	11,189,000	JC	97,030,000	SEQ	4.75	FIX	38385BMQ0	June 2052
		JD	97,030,000	SEQ	5.00	FIX	38385BMR8	June 2052
		JE	64,686,666	SEQ	5.25	FIX	38385BMS6	June 2052
		JG	48,515,000	SEQ	5.50	FIX	38385BMT4	June 2052
		JJ	8,085,833	NTL(SEQ)	6.00	FIX/IO	38385BMU1	June 2052
Security Group 29								
Combination 45								
KA	\$ 32,646,000	KE	\$ 37,500,000	PT	5.00%	FIX	38385BMV9	December 2064
KL	4,854,000							
Combination 46								
TG	\$112,500,000	SF	\$112,500,000	PT	(5)	FLT	38385BMW7	December 2064
YE	112,500,000							

(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 1, 2, 10, 13, 17, 18, 21, 22, 23, 25, 27, 30, 32, 33, 34, 35, 36, 38, 40, 41, 42 and 44, various subcombinations are permitted. See "Description of the Securities — Modification and Exchange" in the Base Offering Circular for a discussion of subcombinations.

(7) For additional discussion regarding the effect of 30-day Average SOFR on the rate of principal payments on these Securities, see "Risk Factors — The rate of principal payments on certain group 4 classes will be sensitive to 30-day Average SOFR" and "— Decrement Tables" in this Supplement.

Schedule II

SCHEDULED PRINCIPAL BALANCES

<u>Distribution Date</u>	<u>Class FT</u>	<u>Class TF</u>	<u>Classes PA and PL (in the aggregate)</u>
Initial Balance	\$55,000,000.00	\$25,000,000.00	\$46,075,000.00
January 2025	54,732,318.11	24,887,637.85	45,981,326.79
February 2025	54,404,541.01	24,753,108.78	45,873,467.65
March 2025	54,016,873.91	24,596,486.50	45,751,460.95
April 2025	53,569,671.26	24,417,897.83	45,615,355.95
May 2025	53,063,437.71	24,217,523.09	45,465,212.81
June 2025	52,498,828.62	23,995,596.26	45,301,102.61
July 2025	51,876,649.86	23,752,404.85	45,123,107.25
August 2025	51,197,857.02	23,488,289.72	44,931,319.45
September 2025	50,463,554.03	23,203,644.50	44,725,842.67
October 2025	49,674,991.09	22,898,914.94	44,506,791.03
November 2025	48,833,562.04	22,574,597.97	44,274,289.24
December 2025	47,940,800.97	22,231,240.52	44,028,472.46
January 2026	46,998,378.37	21,869,438.21	43,769,486.24
February 2026	46,008,096.45	21,489,833.73	43,497,486.32
March 2026	44,971,884.04	21,093,115.04	43,212,638.54
April 2026	43,891,790.78	20,680,013.41	42,915,118.64
May 2026	42,769,980.75	20,251,301.18	42,605,112.14
June 2026	41,608,725.56	19,807,789.42	42,282,814.08
July 2026	40,410,396.88	19,350,325.30	41,948,428.91
August 2026	39,177,458.56	18,879,789.38	41,602,170.20
September 2026	37,912,458.13	18,397,092.68	41,244,260.49
October 2026	36,618,018.05	17,903,173.66	40,874,930.98
November 2026	35,296,826.43	17,398,994.96	40,494,421.37
December 2026	33,951,627.45	16,885,540.17	40,102,979.51
January 2027	32,585,211.54	16,363,810.32	39,700,861.22
February 2027	31,200,405.25	15,834,820.46	39,288,329.94
March 2027	29,800,060.93	15,299,595.99	38,865,656.49
April 2027	28,439,873.58	14,778,653.30	38,433,118.75
May 2027	27,118,694.65	14,271,595.76	38,004,100.92
June 2027	25,835,408.33	13,778,037.69	37,578,575.10
July 2027	24,588,930.70	13,297,603.98	37,156,513.63
August 2027	23,378,208.75	12,829,929.82	36,737,889.04
September 2027	22,202,219.54	12,374,660.44	36,322,674.10
October 2027	21,059,969.35	11,931,450.81	35,910,841.77
November 2027	19,950,492.81	11,499,965.38	35,502,365.25
December 2027	18,872,852.13	11,079,877.83	35,097,217.94
January 2028	17,826,136.29	10,670,870.78	34,695,373.43
February 2028	16,809,460.28	10,272,635.61	34,296,805.55
March 2028	15,821,964.37	9,884,872.14	33,901,488.31
April 2028	14,862,813.38	9,507,288.46	33,509,395.93
May 2028	13,931,195.97	9,139,600.68	33,120,502.84
June 2028	13,026,323.99	8,781,532.69	32,734,783.68
July 2028	12,147,431.80	8,432,815.99	32,352,213.26
August 2028	11,293,775.61	8,093,189.45	31,972,766.61

<u>Distribution Date</u>	<u>Class FT</u>	<u>Class TF</u>	<u>Classes PA and PL (in the aggregate)</u>
September 2028	\$10,464,632.91	\$ 7,762,399.10	\$31,596,418.95
October 2028	9,659,301.79	7,440,197.96	31,223,145.70
November 2028	8,877,100.42	7,126,345.84	30,852,922.46
December 2028	8,117,366.44	6,820,609.13	30,485,725.04
January 2029	7,379,456.41	6,522,760.65	30,121,529.43
February 2029	6,662,745.29	6,232,579.45	29,760,311.81
March 2029	5,966,625.88	5,949,850.67	29,402,048.54
April 2029	5,290,508.35	5,674,365.33	29,046,716.18
May 2029	4,633,819.71	5,405,920.20	28,694,291.47
June 2029	3,996,003.36	5,144,317.63	28,344,751.32
July 2029	3,376,518.58	4,889,365.39	27,998,072.83
August 2029	2,774,840.15	4,640,876.54	27,654,233.30
September 2029	2,190,457.81	4,398,669.26	27,313,210.17
October 2029	1,622,875.94	4,162,566.74	26,974,981.09
November 2029	1,071,613.04	3,932,397.02	26,639,523.88
December 2029	536,201.40	3,707,992.84	26,306,816.51
January 2030	16,186.69	3,489,191.56	25,976,837.14
February 2030	0.00	3,275,834.99	25,649,564.13
March 2030	0.00	3,067,769.28	25,324,975.95
April 2030	0.00	2,864,844.82	25,003,051.29
May 2030	0.00	2,666,916.08	24,683,768.99
June 2030	0.00	2,473,841.54	24,367,108.06
July 2030	0.00	2,285,483.55	24,053,047.66
August 2030	0.00	2,101,708.27	23,741,567.13
September 2030	0.00	1,922,385.49	23,432,645.97
October 2030	0.00	1,747,388.58	23,126,263.83
November 2030	0.00	1,576,594.42	22,822,400.55
December 2030	0.00	1,409,883.21	22,521,036.09
January 2031	0.00	1,247,138.48	22,222,150.59
February 2031	0.00	1,088,246.94	21,925,724.34
March 2031	0.00	933,098.38	21,631,737.79
April 2031	0.00	781,585.66	21,340,171.54
May 2031	0.00	633,604.52	21,051,006.35
June 2031	0.00	489,053.61	20,764,223.11
July 2031	0.00	347,834.32	20,479,802.88
August 2031	0.00	209,850.75	20,197,726.87
September 2031	0.00	75,009.64	19,917,976.43
October 2031	0.00	0.00	19,640,533.06
November 2031	0.00	0.00	19,365,378.40
December 2031	0.00	0.00	19,092,494.23
January 2032	0.00	0.00	18,821,862.50
February 2032	0.00	0.00	18,553,465.28
March 2032	0.00	0.00	18,287,284.77
April 2032	0.00	0.00	18,023,303.34
May 2032	0.00	0.00	17,761,503.49
June 2032	0.00	0.00	17,501,867.83
July 2032	0.00	0.00	17,244,379.14
August 2032	0.00	0.00	16,989,020.33

<u>Distribution Date</u>	<u>Class FT</u>	<u>Class TF</u>	<u>Classes PA and PL (in the aggregate)</u>
September 2032	\$ 0.00	\$ 0.00	\$16,735,774.44
October 2032	0.00	0.00	16,484,624.62
November 2032	0.00	0.00	16,235,554.20
December 2032	0.00	0.00	15,989,224.54
January 2033	0.00	0.00	15,746,436.80
February 2033	0.00	0.00	15,507,141.48
March 2033	0.00	0.00	15,271,289.75
April 2033	0.00	0.00	15,038,833.44
May 2033	0.00	0.00	14,809,725.06
June 2033	0.00	0.00	14,583,917.76
July 2033	0.00	0.00	14,361,365.36
August 2033	0.00	0.00	14,142,022.28
September 2033	0.00	0.00	13,925,843.59
October 2033	0.00	0.00	13,712,784.99
November 2033	0.00	0.00	13,502,802.76
December 2033	0.00	0.00	13,295,853.80
January 2034	0.00	0.00	13,091,895.60
February 2034	0.00	0.00	12,890,886.25
March 2034	0.00	0.00	12,692,784.39
April 2034	0.00	0.00	12,497,549.25
May 2034	0.00	0.00	12,305,140.61
June 2034	0.00	0.00	12,115,518.83
July 2034	0.00	0.00	11,928,644.78
August 2034	0.00	0.00	11,744,479.89
September 2034	0.00	0.00	11,562,986.13
October 2034	0.00	0.00	11,384,125.97
November 2034	0.00	0.00	11,207,862.43
December 2034	0.00	0.00	11,034,159.00
January 2035	0.00	0.00	10,862,979.72
February 2035	0.00	0.00	10,694,289.09
March 2035	0.00	0.00	10,528,052.10
April 2035	0.00	0.00	10,364,234.26
May 2035	0.00	0.00	10,202,801.52
June 2035	0.00	0.00	10,043,720.32
July 2035	0.00	0.00	9,886,957.54
August 2035	0.00	0.00	9,732,480.55
September 2035	0.00	0.00	9,580,257.15
October 2035	0.00	0.00	9,430,255.59
November 2035	0.00	0.00	9,282,444.55
December 2035	0.00	0.00	9,136,793.17
January 2036	0.00	0.00	8,993,270.98
February 2036	0.00	0.00	8,851,847.95
March 2036	0.00	0.00	8,712,494.48
April 2036	0.00	0.00	8,575,181.34
May 2036	0.00	0.00	8,439,879.76
June 2036	0.00	0.00	8,306,561.31
July 2036	0.00	0.00	8,175,197.99
August 2036	0.00	0.00	8,045,762.18

<u>Distribution Date</u>	<u>Class FT</u>	<u>Class TF</u>	<u>Classes PA and PL (in the aggregate)</u>
September 2036	\$ 0.00	\$ 0.00	\$ 7,918,226.63
October 2036	0.00	0.00	7,792,564.49
November 2036	0.00	0.00	7,668,749.26
December 2036	0.00	0.00	7,546,754.82
January 2037	0.00	0.00	7,426,555.41
February 2037	0.00	0.00	7,308,125.62
March 2037	0.00	0.00	7,191,440.40
April 2037	0.00	0.00	7,076,475.04
May 2037	0.00	0.00	6,963,205.18
June 2037	0.00	0.00	6,851,606.79
July 2037	0.00	0.00	6,741,656.18
August 2037	0.00	0.00	6,633,329.99
September 2037	0.00	0.00	6,526,605.18
October 2037	0.00	0.00	6,421,459.02
November 2037	0.00	0.00	6,317,869.12
December 2037	0.00	0.00	6,215,813.37
January 2038	0.00	0.00	6,115,269.99
February 2038	0.00	0.00	6,016,217.50
March 2038	0.00	0.00	5,918,634.71
April 2038	0.00	0.00	5,822,500.72
May 2038	0.00	0.00	5,727,794.94
June 2038	0.00	0.00	5,634,497.04
July 2038	0.00	0.00	5,542,587.00
August 2038	0.00	0.00	5,452,045.07
September 2038	0.00	0.00	5,362,851.75
October 2038	0.00	0.00	5,274,987.84
November 2038	0.00	0.00	5,188,434.39
December 2038	0.00	0.00	5,103,172.74
January 2039	0.00	0.00	5,019,184.45
February 2039	0.00	0.00	4,936,451.37
March 2039	0.00	0.00	4,854,955.59
April 2039	0.00	0.00	4,774,679.44
May 2039	0.00	0.00	4,695,605.52
June 2039	0.00	0.00	4,617,716.64
July 2039	0.00	0.00	4,540,995.88
August 2039	0.00	0.00	4,465,426.53
September 2039	0.00	0.00	4,390,992.14
October 2039	0.00	0.00	4,317,676.46
November 2039	0.00	0.00	4,245,463.49
December 2039	0.00	0.00	4,174,337.45
January 2040	0.00	0.00	4,104,282.77
February 2040	0.00	0.00	4,035,284.09
March 2040	0.00	0.00	3,967,326.29
April 2040	0.00	0.00	3,900,394.44
May 2040	0.00	0.00	3,834,473.83
June 2040	0.00	0.00	3,769,549.94
July 2040	0.00	0.00	3,705,608.47
August 2040	0.00	0.00	3,642,635.32

<u>Distribution Date</u>	<u>Class FT</u>	<u>Class TF</u>	<u>Classes PA and PL (in the aggregate)</u>
September 2040	\$ 0.00	\$ 0.00	\$ 3,580,616.57
October 2040	0.00	0.00	3,519,538.51
November 2040	0.00	0.00	3,459,387.62
December 2040	0.00	0.00	3,400,150.55
January 2041	0.00	0.00	3,341,814.16
February 2041	0.00	0.00	3,284,365.49
March 2041	0.00	0.00	3,227,791.75
April 2041	0.00	0.00	3,172,080.33
May 2041	0.00	0.00	3,117,218.82
June 2041	0.00	0.00	3,063,194.95
July 2041	0.00	0.00	3,009,996.65
August 2041	0.00	0.00	2,957,612.00
September 2041	0.00	0.00	2,906,029.24
October 2041	0.00	0.00	2,855,236.81
November 2041	0.00	0.00	2,805,223.29
December 2041	0.00	0.00	2,755,977.40
January 2042	0.00	0.00	2,707,488.05
February 2042	0.00	0.00	2,659,744.30
March 2042	0.00	0.00	2,612,735.35
April 2042	0.00	0.00	2,566,450.55
May 2042	0.00	0.00	2,520,879.43
June 2042	0.00	0.00	2,476,011.63
July 2042	0.00	0.00	2,431,836.96
August 2042	0.00	0.00	2,388,345.35
September 2042	0.00	0.00	2,345,526.90
October 2042	0.00	0.00	2,303,371.83
November 2042	0.00	0.00	2,261,870.49
December 2042	0.00	0.00	2,221,013.40
January 2043	0.00	0.00	2,180,791.17
February 2043	0.00	0.00	2,141,194.58
March 2043	0.00	0.00	2,102,214.51
April 2043	0.00	0.00	2,063,841.98
May 2043	0.00	0.00	2,026,068.15
June 2043	0.00	0.00	1,988,884.28
July 2043	0.00	0.00	1,952,281.77
August 2043	0.00	0.00	1,916,252.13
September 2043	0.00	0.00	1,880,787.01
October 2043	0.00	0.00	1,845,878.15
November 2043	0.00	0.00	1,811,517.43
December 2043	0.00	0.00	1,777,696.82
January 2044	0.00	0.00	1,744,408.43
February 2044	0.00	0.00	1,711,644.47
March 2044	0.00	0.00	1,679,397.25
April 2044	0.00	0.00	1,647,659.20
May 2044	0.00	0.00	1,616,422.86
June 2044	0.00	0.00	1,585,680.86
July 2044	0.00	0.00	1,555,425.96
August 2044	0.00	0.00	1,525,650.99

<u>Distribution Date</u>	<u>Class FT</u>	<u>Class TF</u>	<u>Classes PA and PL (in the aggregate)</u>
September 2044	\$ 0.00	\$ 0.00	\$ 1,496,348.90
October 2044	0.00	0.00	1,467,512.75
November 2044	0.00	0.00	1,439,135.67
December 2044	0.00	0.00	1,411,210.92
January 2045	0.00	0.00	1,383,731.82
February 2045	0.00	0.00	1,356,691.81
March 2045	0.00	0.00	1,330,084.42
April 2045	0.00	0.00	1,303,903.26
May 2045	0.00	0.00	1,278,142.05
June 2045	0.00	0.00	1,252,794.57
July 2045	0.00	0.00	1,227,854.72
August 2045	0.00	0.00	1,203,316.46
September 2045	0.00	0.00	1,179,173.85
October 2045	0.00	0.00	1,155,421.04
November 2045	0.00	0.00	1,132,052.25
December 2045	0.00	0.00	1,109,061.79
January 2046	0.00	0.00	1,086,444.04
February 2046	0.00	0.00	1,064,193.48
March 2046	0.00	0.00	1,042,304.64
April 2046	0.00	0.00	1,020,772.15
May 2046	0.00	0.00	999,590.72
June 2046	0.00	0.00	978,755.11
July 2046	0.00	0.00	958,260.18
August 2046	0.00	0.00	938,100.86
September 2046	0.00	0.00	918,272.13
October 2046	0.00	0.00	898,769.06
November 2046	0.00	0.00	879,586.80
December 2046	0.00	0.00	860,720.55
January 2047	0.00	0.00	842,165.58
February 2047	0.00	0.00	823,917.24
March 2047	0.00	0.00	805,970.93
April 2047	0.00	0.00	788,322.14
May 2047	0.00	0.00	770,966.39
June 2047	0.00	0.00	753,899.30
July 2047	0.00	0.00	737,116.52
August 2047	0.00	0.00	720,613.80
September 2047	0.00	0.00	704,386.91
October 2047	0.00	0.00	688,431.70
November 2047	0.00	0.00	672,744.09
December 2047	0.00	0.00	657,320.03
January 2048	0.00	0.00	642,155.57
February 2048	0.00	0.00	627,246.77
March 2048	0.00	0.00	612,589.78
April 2048	0.00	0.00	598,180.79
May 2048	0.00	0.00	584,016.05
June 2048	0.00	0.00	570,091.86
July 2048	0.00	0.00	556,404.58
August 2048	0.00	0.00	542,950.61

<u>Distribution Date</u>	<u>Class FT</u>	<u>Class TF</u>	<u>Classes PA and PL (in the aggregate)</u>
September 2048	\$ 0.00	\$ 0.00	\$ 529,726.42
October 2048	0.00	0.00	516,728.50
November 2048	0.00	0.00	503,953.44
December 2048	0.00	0.00	491,397.82
January 2049	0.00	0.00	479,058.32
February 2049	0.00	0.00	466,931.64
March 2049	0.00	0.00	455,014.53
April 2049	0.00	0.00	443,303.80
May 2049	0.00	0.00	431,796.29
June 2049	0.00	0.00	420,488.90
July 2049	0.00	0.00	409,378.56
August 2049	0.00	0.00	398,462.25
September 2049	0.00	0.00	387,737.00
October 2049	0.00	0.00	377,199.89
November 2049	0.00	0.00	366,848.01
December 2049	0.00	0.00	356,678.52
January 2050	0.00	0.00	346,688.62
February 2050	0.00	0.00	336,875.54
March 2050	0.00	0.00	327,236.55
April 2050	0.00	0.00	317,768.98
May 2050	0.00	0.00	308,470.16
June 2050	0.00	0.00	299,337.50
July 2050	0.00	0.00	290,368.42
August 2050	0.00	0.00	281,560.39
September 2050	0.00	0.00	272,910.91
October 2050	0.00	0.00	264,417.52
November 2050	0.00	0.00	256,077.80
December 2050	0.00	0.00	247,889.36
January 2051	0.00	0.00	239,849.84
February 2051	0.00	0.00	231,956.92
March 2051	0.00	0.00	224,208.32
April 2051	0.00	0.00	216,601.79
May 2051	0.00	0.00	209,135.09
June 2051	0.00	0.00	201,806.06
July 2051	0.00	0.00	194,612.52
August 2051	0.00	0.00	187,552.36
September 2051	0.00	0.00	180,623.47
October 2051	0.00	0.00	173,823.81
November 2051	0.00	0.00	167,151.33
December 2051	0.00	0.00	160,604.04
January 2052	0.00	0.00	154,179.96
February 2052	0.00	0.00	147,877.14
March 2052	0.00	0.00	141,693.67
April 2052	0.00	0.00	135,627.66
May 2052	0.00	0.00	129,677.25
June 2052	0.00	0.00	123,840.61
July 2052	0.00	0.00	118,115.93
August 2052	0.00	0.00	112,501.43

<u>Distribution Date</u>	<u>Class FT</u>	<u>Class TF</u>	<u>Classes PA and PL (in the aggregate)</u>
September 2052	\$ 0.00	\$ 0.00	\$ 106,995.36
October 2052	0.00	0.00	101,595.99
November 2052	0.00	0.00	96,301.62
December 2052	0.00	0.00	91,110.57
January 2053	0.00	0.00	86,021.19
February 2053	0.00	0.00	81,031.86
March 2053	0.00	0.00	76,140.96
April 2053	0.00	0.00	71,346.92
May 2053	0.00	0.00	66,648.18
June 2053	0.00	0.00	62,043.20
July 2053	0.00	0.00	57,530.49
August 2053	0.00	0.00	53,108.53
September 2053	0.00	0.00	48,775.88
October 2053	0.00	0.00	44,531.09
November 2053	0.00	0.00	40,372.72
December 2053	0.00	0.00	36,299.39
January 2054	0.00	0.00	32,309.70
February 2054	0.00	0.00	28,402.30
March 2054	0.00	0.00	24,575.84
April 2054	0.00	0.00	20,829.01
May 2054	0.00	0.00	17,160.50
June 2054	0.00	0.00	13,569.03
July 2054	0.00	0.00	10,053.35
August 2054	0.00	0.00	6,612.19
September 2054	0.00	0.00	3,244.35
October 2054 and thereafter	0.00	0.00	0.00

<u>Distribution Date</u>	<u>Class PN</u>	<u>Class PJ</u>
Initial Balance	\$2,230,000.00	\$46,701,000.00
January 2025	2,224,387.64	46,537,591.14
February 2025	2,216,906.60	46,350,779.59
March 2025	2,207,562.09	46,140,599.23
April 2025	2,196,362.45	45,907,107.39
May 2025	2,183,319.05	45,650,384.99
June 2025	2,168,446.30	45,370,536.48
July 2025	2,151,761.71	45,067,689.89
August 2025	2,133,285.79	44,741,996.72
September 2025	2,113,042.08	44,393,631.86
October 2025	2,091,057.14	44,022,793.46
November 2025	2,067,360.44	43,629,702.73
December 2025	2,041,984.43	43,214,603.75
January 2026	2,014,964.36	42,777,763.17
February 2026	1,986,338.37	42,319,469.95
March 2026	1,956,147.33	41,840,035.00
April 2026	1,924,434.82	41,339,790.79
May 2026	1,891,247.05	40,819,090.96
June 2026	1,856,632.81	40,278,309.87
July 2026	1,820,643.32	39,717,842.04
August 2026	1,783,332.23	39,138,101.71
September 2026	1,744,755.46	38,539,522.23
October 2026	1,704,971.15	37,922,555.45
November 2026	1,664,039.51	37,287,671.12
December 2026	1,622,022.77	36,635,356.20
January 2027	1,578,985.03	35,966,114.17
February 2027	1,534,992.14	35,280,464.29
March 2027	1,490,111.61	34,578,940.90
April 2027	1,444,412.47	33,862,092.57
May 2027	1,399,651.07	33,130,481.33
June 2027	1,355,814.84	32,405,819.22
July 2027	1,312,891.33	31,688,025.33
August 2027	1,270,868.26	30,977,019.58
September 2027	1,229,733.48	30,272,722.72
October 2027	1,189,474.98	29,575,056.31
November 2027	1,150,080.88	28,883,942.70
December 2027	1,111,539.44	28,199,305.06
January 2028	1,073,839.08	27,521,067.33
February 2028	1,036,968.32	26,849,154.24
March 2028	1,000,915.83	26,183,491.30
April 2028	965,670.42	25,524,004.75
May 2028	931,221.02	24,870,621.61
June 2028	897,556.65	24,223,269.65
July 2028	864,666.54	23,581,877.35
August 2028	832,539.97	22,946,373.96
September 2028	801,166.39	22,316,689.41
October 2028	770,535.34	21,692,754.37
November 2028	740,636.52	21,074,500.21
December 2028	711,459.72	20,461,859.00

<u>Distribution Date</u>	<u>Class PN</u>	<u>Class PJ</u>
January 2029	\$ 682,994.85	\$19,854,763.50
February 2029	655,231.95	19,253,147.14
March 2029	628,161.18	18,656,944.06
April 2029	601,772.80	18,066,089.03
May 2029	576,057.19	17,480,517.50
June 2029	551,004.86	16,900,165.57
July 2029	526,606.41	16,324,970.00
August 2029	502,852.54	15,754,868.17
September 2029	479,734.10	15,189,798.11
October 2029	457,242.01	14,629,698.45
November 2029	435,367.30	14,074,508.47
December 2029	414,101.14	13,524,586.66
January 2030	393,434.79	12,986,706.64
February 2030	373,359.56	12,460,607.95
March 2030	353,866.95	11,946,035.68
April 2030	334,948.50	11,442,740.40
May 2030	316,595.88	10,950,478.04
June 2030	298,800.82	10,469,009.76
July 2030	281,555.21	9,998,101.85
August 2030	264,850.98	9,537,525.61
September 2030	248,680.19	9,087,057.25
October 2030	233,034.98	8,646,477.81
November 2030	217,907.58	8,215,572.99
December 2030	203,290.34	7,794,133.13
January 2031	189,175.66	7,381,953.04
February 2031	175,556.06	6,978,831.97
March 2031	162,424.15	6,584,573.46
April 2031	149,772.61	6,198,985.29
May 2031	137,594.22	5,821,879.35
June 2031	125,881.85	5,453,071.59
July 2031	114,628.46	5,092,381.92
August 2031	103,827.08	4,739,634.09
September 2031	93,470.82	4,394,655.69
October 2031	83,552.89	4,057,277.97
November 2031	74,066.59	3,727,335.84
December 2031	65,005.28	3,404,667.76
January 2032	56,362.40	3,089,115.64
February 2032	48,131.48	2,780,524.83
March 2032	40,306.14	2,478,743.97
April 2032	32,880.05	2,183,625.00
May 2032	25,846.97	1,895,023.00
June 2032	19,200.76	1,612,796.21
July 2032	12,935.31	1,336,805.90
August 2032	7,287.67	1,066,916.34
September 2032	3,274.09	802,994.72
October 2032	859.08	544,911.09
November 2032	7.71	292,538.31
December 2032	7.71	45,751.95
January 2033	7.71	0.00

<u>Distribution Date</u>	<u>Class PN</u>	<u>Class PJ</u>
February 2033	\$ 7.71	\$ 0.00
March 2033	7.71	0.00
April 2033	7.71	0.00
May 2033	7.71	0.00
June 2033	7.71	0.00
July 2033	7.71	0.00
August 2033	7.71	0.00
September 2033	7.71	0.00
October 2033	7.71	0.00
November 2033	7.71	0.00
December 2033	7.71	0.00
January 2034	7.71	0.00
February 2034	7.71	0.00
March 2034	7.71	0.00
April 2034	7.71	0.00
May 2034	7.71	0.00
June 2034	7.71	0.00
July 2034	7.71	0.00
August 2034	7.71	0.00
September 2034	7.71	0.00
October 2034	7.71	0.00
November 2034	7.71	0.00
December 2034	7.71	0.00
January 2035	7.71	0.00
February 2035	7.71	0.00
March 2035	7.71	0.00
April 2035	7.71	0.00
May 2035	7.71	0.00
June 2035	7.71	0.00
July 2035	7.71	0.00
August 2035	7.71	0.00
September 2035	7.71	0.00
October 2035	7.71	0.00
November 2035	7.71	0.00
December 2035	7.71	0.00
January 2036	7.71	0.00
February 2036	7.71	0.00
March 2036	7.71	0.00
April 2036	7.71	0.00
May 2036	7.71	0.00
June 2036	7.71	0.00
July 2036	7.71	0.00
August 2036	7.71	0.00
September 2036	7.71	0.00
October 2036	7.71	0.00
November 2036	7.71	0.00
December 2036	7.71	0.00
January 2037	7.71	0.00
February 2037	7.71	0.00

<u>Distribution Date</u>	<u>Class PN</u>	<u>Class PJ</u>
March 2037	\$ 7.71	\$ 0.00
April 2037	7.71	0.00
May 2037	7.71	0.00
June 2037	7.71	0.00
July 2037	7.71	0.00
August 2037	7.71	0.00
September 2037	7.71	0.00
October 2037	7.71	0.00
November 2037	7.71	0.00
December 2037	7.71	0.00
January 2038	7.71	0.00
February 2038	7.71	0.00
March 2038	7.71	0.00
April 2038	7.71	0.00
May 2038	7.71	0.00
June 2038	7.71	0.00
July 2038	7.71	0.00
August 2038	7.71	0.00
September 2038	7.71	0.00
October 2038	7.71	0.00
November 2038	7.71	0.00
December 2038	7.71	0.00
January 2039	7.71	0.00
February 2039	7.71	0.00
March 2039	7.71	0.00
April 2039	7.71	0.00
May 2039	7.71	0.00
June 2039	7.71	0.00
July 2039	7.71	0.00
August 2039	7.71	0.00
September 2039	7.71	0.00
October 2039	7.71	0.00
November 2039	7.71	0.00
December 2039	7.71	0.00
January 2040	7.71	0.00
February 2040	7.71	0.00
March 2040	7.71	0.00
April 2040	7.71	0.00
May 2040	7.71	0.00
June 2040	7.71	0.00
July 2040	7.71	0.00
August 2040	7.71	0.00
September 2040	7.71	0.00
October 2040	7.71	0.00
November 2040	7.71	0.00
December 2040	7.71	0.00
January 2041	7.71	0.00
February 2041	7.71	0.00
March 2041	7.71	0.00

<u>Distribution Date</u>	<u>Class PN</u>	<u>Class PJ</u>
April 2041	\$ 7.71	\$ 0.00
May 2041	7.71	0.00
June 2041	7.71	0.00
July 2041	7.71	0.00
August 2041	7.71	0.00
September 2041	7.71	0.00
October 2041	7.71	0.00
November 2041	7.71	0.00
December 2041	7.71	0.00
January 2042	7.71	0.00
February 2042	7.71	0.00
March 2042	7.71	0.00
April 2042	7.71	0.00
May 2042	7.71	0.00
June 2042	7.71	0.00
July 2042	7.71	0.00
August 2042	7.71	0.00
September 2042	7.71	0.00
October 2042	7.71	0.00
November 2042	7.71	0.00
December 2042	7.71	0.00
January 2043	7.71	0.00
February 2043	7.71	0.00
March 2043	7.71	0.00
April 2043	7.71	0.00
May 2043	7.71	0.00
June 2043	7.71	0.00
July 2043	7.71	0.00
August 2043	7.71	0.00
September 2043	7.71	0.00
October 2043	7.71	0.00
November 2043	7.71	0.00
December 2043	7.71	0.00
January 2044	7.71	0.00
February 2044	7.71	0.00
March 2044	7.71	0.00
April 2044	7.71	0.00
May 2044	7.71	0.00
June 2044	7.71	0.00
July 2044	7.71	0.00
August 2044	7.71	0.00
September 2044	7.71	0.00
October 2044	7.71	0.00
November 2044	7.71	0.00
December 2044	7.71	0.00
January 2045	7.71	0.00
February 2045	7.71	0.00
March 2045	7.71	0.00
April 2045	7.71	0.00

<u>Distribution Date</u>	<u>Class PN</u>	<u>Class PJ</u>
May 2045	\$ 7.71	\$ 0.00
June 2045	7.71	0.00
July 2045	7.71	0.00
August 2045	7.71	0.00
September 2045	7.71	0.00
October 2045	7.71	0.00
November 2045	7.71	0.00
December 2045	7.71	0.00
January 2046	7.71	0.00
February 2046	7.71	0.00
March 2046	7.71	0.00
April 2046	7.71	0.00
May 2046	7.71	0.00
June 2046	7.71	0.00
July 2046	7.71	0.00
August 2046	7.71	0.00
September 2046	7.71	0.00
October 2046	7.71	0.00
November 2046	7.71	0.00
December 2046	7.71	0.00
January 2047	7.71	0.00
February 2047	7.71	0.00
March 2047	7.71	0.00
April 2047	7.71	0.00
May 2047	7.71	0.00
June 2047	7.71	0.00
July 2047	7.71	0.00
August 2047	7.71	0.00
September 2047	7.71	0.00
October 2047	7.71	0.00
November 2047	7.71	0.00
December 2047	7.71	0.00
January 2048	7.71	0.00
February 2048	7.71	0.00
March 2048	7.71	0.00
April 2048	7.71	0.00
May 2048	7.71	0.00
June 2048	7.71	0.00
July 2048	7.71	0.00
August 2048	7.71	0.00
September 2048	7.71	0.00
October 2048	7.71	0.00
November 2048	7.71	0.00
December 2048	7.71	0.00
January 2049	7.71	0.00
February 2049	7.71	0.00
March 2049	7.71	0.00
April 2049	7.71	0.00
May 2049	7.71	0.00

<u>Distribution Date</u>	<u>Class PN</u>	<u>Class PJ</u>
June 2049	\$ 7.71	\$ 0.00
July 2049	7.71	0.00
August 2049	7.71	0.00
September 2049	7.71	0.00
October 2049	7.71	0.00
November 2049	7.71	0.00
December 2049	7.71	0.00
January 2050	7.71	0.00
February 2050	7.71	0.00
March 2050	7.71	0.00
April 2050	7.71	0.00
May 2050	7.71	0.00
June 2050	7.71	0.00
July 2050	7.71	0.00
August 2050	7.71	0.00
September 2050	7.71	0.00
October 2050	7.71	0.00
November 2050	7.71	0.00
December 2050	7.71	0.00
January 2051	7.71	0.00
February 2051	7.71	0.00
March 2051	7.71	0.00
April 2051	7.71	0.00
May 2051	7.71	0.00
June 2051	7.71	0.00
July 2051	7.71	0.00
August 2051	7.71	0.00
September 2051	7.71	0.00
October 2051	7.71	0.00
November 2051	7.71	0.00
December 2051	7.71	0.00
January 2052	7.71	0.00
February 2052	7.71	0.00
March 2052	7.71	0.00
April 2052	7.71	0.00
May 2052	7.71	0.00
June 2052	7.71	0.00
July 2052	7.71	0.00
August 2052	7.71	0.00
September 2052	7.71	0.00
October 2052	7.71	0.00
November 2052	7.71	0.00
December 2052	7.71	0.00
January 2053	7.71	0.00
February 2053	7.71	0.00
March 2053	7.71	0.00
April 2053	7.71	0.00
May 2053	7.71	0.00
June 2053	7.71	0.00

<u>Distribution Date</u>	<u>Class PN</u>	<u>Class PJ</u>
July 2053	\$ 7.71	\$ 0.00
August 2053	7.71	0.00
September 2053	7.71	0.00
October 2053	7.71	0.00
November 2053	7.71	0.00
December 2053	7.71	0.00
January 2054	7.71	0.00
February 2054	7.71	0.00
March 2054	7.71	0.00
April 2054	7.71	0.00
May 2054	7.71	0.00
June 2054	7.71	0.00
July 2054	7.71	0.00
August 2054	7.71	0.00
September 2054	7.71	0.00
October 2054 and thereafter	0.00	0.00

Exhibit A

Underlying Certificates

Trust Asset Group or Subgroup	Issuer	Series	Class	Issue Date	CUSIP Number	Interest Rate	Interest Type(I)	Final Distribution Date	Principal Type(I)	Original Principal or Notional Balance of Class	Underlying Certificate Factor(C)	Principal or Notional Balance in Trust	Percentage of Class in Trust	Ginnie Mae I or II
21A	Ginnie Mae	2023-113	PP	August 30, 2023	38384CWC9	(3)	FLT	August 2053	PT	\$113,819,457	0.52732814	\$61,158,397.13	100.000000000000%	II
21B	Ginnie Mae	2023-133	AT	September 29, 2023	38384EMH5	(3)	INV/IO	September 2053	NTL(PT)	100,000,000	0.54400022	27,200,011.00	50.000000000000	II
21B	Ginnie Mae	2023-133	BT	September 29, 2023	38384EMJ1	(3)	INV/IO	September 2053	NTL(PT)	100,000,000	0.54400022	27,200,011.00	50.000000000000	II
21B	Ginnie Mae	2023-133	CT	September 29, 2023	38384EMK8	(3)	INV/IO	September 2053	NTL(PT)	100,000,000	0.54400022	27,200,011.00	50.000000000000	II
21B	Ginnie Mae	2023-137	IT	September 29, 2023	38384EVT9	(3)	INV/IO	September 2053	NTL(PT)	50,000,000	0.54(686797)	27,343,398.50	100.000000000000	II
21B	Ginnie Mae	2023-137	TI	September 29, 2023	38384EYV4	(3)	INV/IO	September 2053	NTL(PT)	50,000,000	0.54(686797)	27,343,398.50	100.000000000000	II
21B	Ginnie Mae	2023-146	TA	October 30, 2023	38384DAM9	(3)	INV/IO	October 2053	NTL(PT)	77,000,000	0.52795406	26,397,703.00	64.935069351	II
21B	Ginnie Mae	2023-146	TB	October 30, 2023	38384DAN7	(3)	INV/IO	October 2053	NTL(PT)	77,000,000	0.52795406	26,397,703.00	64.935069351	II
22	Ginnie Mae	2023-167	PP	November 30, 2023	38384FAB8	(3)	FLT	November 2053	PT	33,333,333	0.544592876	18,197,625.15	100.000000000000	II

(1) As defined under “Class Types” in Appendix I to the Base Offering Circular.

(2) Underlying Certificate Factors are as of December 2024.

(3) The Interest Rate will be calculated as described under “Terms Sheet — Interest Rates” in the related Underlying Certificate Disclosure Document.



\$4,412,613,969

**Government National
Mortgage Association**

GINNIE MAE[®]

**Guaranteed REMIC
Pass-Through Securities
and MX Securities
Ginnie Mae REMIC Trust 2024-197**

OFFERING CIRCULAR SUPPLEMENT
December 23, 2024

