

**\$751,998,400**  
**Government National Mortgage Association**

**GINNIE MAE<sup>®</sup>**

**Guaranteed REMIC Pass-Through Securities  
and MX Securities  
Ginnie Mae REMIC Trust 2020-096**

**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-10 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 July 30, 2020.

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

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

Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
<b>Security Group 1</b>						
AG(1)	\$125,292,790	2.00%	PT	FIX	38382GJ94	July 2050
FA	62,646,394	(5)	PT	FLT	38382GK27	July 2050
SA	62,646,394	(5)	NTL(PT)	INV/IO	38382GK35	July 2050
<b>Security Group 2</b>						
BI	23,662,085	4.50	NTL(SC/PT)	FIX/IO	38382GK43	December 2047
<b>Security Group 3</b>						
CI	3,328,912	(5)	NTL(SC/PT)	INV/IO	38382GK50	July 2048
CS	92,538,153	(5)	NTL(SC/PT)	INV/IO	38382GK68	August 2049
<b>Security Group 4</b>						
DS	103,065,270	(5)	NTL(SC/PT)	INV/IO	38382GK76	November 2049
<b>Security Group 5</b>						
ES	68,710,180	(5)	NTL(SC/PT)	INV/IO	38382GK84	November 2049
<b>Security Group 6</b>						
GS	66,473,586	(5)	NTL(SC/PT)	INV/IO	38382GK92	January 2046
<b>Security Group 7</b>						
HB(1)	49,516,000	1.00	SC/TAC/AD	FIX	38382GL26	April 2049
HC(1)	8,751,511	1.00	SC/PT	FIX	38382GL34	March 2049
HI	24,182,155	5.00	NTL(SC/PT/TAC/AD)	FIX/IO	38382GL42	April 2049
HZ	757,470	3.00	SC/SUP	FIX/Z	38382GL59	April 2049
ZH	248,000	3.00	SC/TAC/AD	FIX/Z	38382GL67	April 2049
<b>Security Group 8</b>						
PH(1)	25,253,000	2.50	SC/PAC/AD	FIX	38382GL75	February 2049
PZ	3,085,514	2.50	SC/SUP	FIX/Z	38382GL83	February 2049
<b>Security Group 9</b>						
D(1)	241,777,743	3.00	PT	FIX	38382GL91	July 2050
<b>Security Group 10</b>						
G(1)	56,809,474	3.00	PT	FIX	38382GM25	July 2050
<b>Security Group 11</b>						
IN(1)	6,614,208	(5)	NTL(SC/PT)	INV/IO	38382GM33	September 2049
NS(1)	13,789,925	(5)	NTL(SC/PT)	INV/IO	38382GM41	August 2049
NT	6,614,208	(5)	NTL(SC/PT)	INV/IO	38382GM58	September 2049
<b>Security Group 12</b>						
MI(1)	18,431,219	(5)	NTL(SC/PT)	INV/IO	38382GM66	August 2049
MS(1)	15,976,295	(5)	NTL(SC/PT)	INV/IO	38382GM74	May 2050
MT	15,976,295	(5)	NTL(SC/PT)	INV/IO	38382GM82	May 2050
<b>Security Group 13</b>						
IM(1)	5,737,292	(5)	NTL(SC/PT)	INV/IO	38382GM90	October 2045
IQ(1)	4,100,552	(5)	NTL(SC/PT)	INV/IO	38382GN24	March 2043
NI(1)	5,454,963	(5)	NTL(SC/PT)	INV/IO	38382GN32	September 2040
QH(1)	2,746,793	(5)	NTL(SC/PT)	INV/IO	38382GN40	October 2039
QS(1)	2,673,135	(5)	NTL(SC/PT)	INV/IO	38382GN57	February 2041
QT	2,746,793	(5)	NTL(SC/PT)	INV/IO	38382GN65	October 2039
TM	5,454,963	(5)	NTL(SC/PT)	INV/IO	38382GN73	September 2040
TN	4,100,552	(5)	NTL(SC/PT)	INV/IO	38382GN81	March 2043
TQ	2,673,135	(5)	NTL(SC/PT)	INV/IO	38382GN99	February 2041
TW	1,211,239	(5)	NTL(SC/PT)	INV/IO	38382GP22	July 2043
WI(1)	1,211,239	(5)	NTL(SC/PT)	INV/IO	38382GP30	July 2043
<b>Security Group 14</b>						
IW(1)	8,931,358	(5)	NTL(SC/PT)	INV/IO	38382GP48	May 2050
WS(1)	38,038,863	(5)	NTL(SC/PT)	INV/IO	38382GP55	May 2050
<b>Security Group 15</b>						
KF	52,857,142	(5)	PT	FLT	38382GP63	July 2050
KL	100,000,000	1.15	PT	FIX	38382GP71	July 2050
KT(1)	52,857,142	(5)	NTL(PT)	INV/IO	38382GP89	July 2050
SK(1)	52,857,142	(5)	NTL(PT)	INV/IO	38382GP97	July 2050
<b>Security Group 16</b>						
LC	25,003,362	1.50	PT	FIX	38382GQ21	July 2050
LI	14,287,635	3.50	NTL(PT)	FIX/IO	38382GQ39	July 2050
<b>Residual</b>						
RR	0	0.00	NPR	NPR	38382GQ47	July 2050

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

## AVAILABLE INFORMATION

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

- this Offering Circular Supplement (this “Supplement”),
- the Base Offering Circular and
- in the case of the Group 2 through 8 and 11 through 14 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:** BofA Securities, Inc.

**Co-Sponsor:** Tribal Capital Markets, LLC

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

**Tax Administrator:** The Trustee

**Closing Date:** July 30, 2020

**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 August 2020.

### Trust Assets:

<u>Trust Asset Group or Subgroup<sup>(2)</sup></u>	<u>Trust Asset Type</u>	<u>Certificate Rate</u>	<u>Original Term To Maturity (in years)</u>
1	Ginnie Mae II	3.500%	30
2	Underlying Certificates	(1)	(1)
3A	Underlying Certificate	(1)	(1)
3B	Underlying Certificate	(1)	(1)
4	Underlying Certificates	(1)	(1)
5	Underlying Certificates	(1)	(1)
6	Underlying Certificates	(1)	(1)
7A	Underlying Certificates	(1)	(1)
7B	Underlying Certificate	(1)	(1)
8	Underlying Certificate	(1)	(1)
9	Ginnie Mae II	3.000%	30
10	Ginnie Mae II	3.000%	30
11A	Underlying Certificates	(1)	(1)
11B	Underlying Certificates	(1)	(1)
12A	Underlying Certificates	(1)	(1)
12B	Underlying Certificates	(1)	(1)
13A	Underlying Certificate	(1)	(1)
13B	Underlying Certificate	(1)	(1)
13C	Underlying Certificate	(1)	(1)
13D	Underlying Certificate	(1)	(1)
13E	Underlying Certificate	(1)	(1)
13F	Underlying Certificate	(1)	(1)
14A	Underlying Certificate	(1)	(1)
14B	Underlying Certificate	(1)	(1)
15	Ginnie Mae II	3.000%	30
16	Ginnie Mae II	3.500%	30

- (1) Certain information regarding the Underlying Certificates is set forth in Exhibit A to this Supplement.
- (2) The Group 3, 7, 11, 12, 13 and 14 Trust Assets consist of the enumerated sub-groups (each, a “Subgroup”).

**Security Groups:** This series of Securities consists of multiple Security Groups (each, a “Group”), as shown on the front cover of this Supplement and on Schedule I to this Supplement. Except in the case of a certain MX Class in Groups 9 and 10, payment 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, 9, 10, 15 and 16 Trust Assets<sup>(1)</sup>:**

<u>Principal Balance</u>	<u>Weighted Average Remaining Term to Maturity (in months)</u>	<u>Weighted Average Loan Age (in months)</u>	<u>Weighted Average Mortgage Rate<sup>(2)</sup></u>
<b>Group 1 Trust Assets</b>			
\$187,939,184	353	4	3.927%
<b>Group 9 Trust Assets</b>			
\$241,777,743	356	2	3.491%
<b>Group 10 Trust Assets</b>			
\$56,809,474	357	0	3.452%
<b>Group 15 Trust Assets</b>			
\$152,857,142	359	1	3.430%
<b>Group 16 Trust Assets</b>			
\$25,003,362	356	4	3.928%

(1) As of July 1, 2020.

(2) The Mortgage Loans underlying the Group 1, 9, 10, 15 and 16 Trust Assets may bear interest at rates ranging from 0.25% to 1.50% per annum above the related Certificate Rate.

The actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans underlying the Group 1, 9, 10, 15 and 16 Trust Assets will differ from the weighted averages shown above, perhaps significantly. See *“The Trust Assets — The Mortgage Loans” in this Supplement.*

**Characteristics of the Group 2 through 8 and 11 through 14 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 one-month LIBOR (hereinafter referred to as “LIBOR”) 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>LIBOR for Minimum Interest Rate</u>
<b>Security Group 1</b>						
FA .....	LIBOR + 0.35%	0.54000%	0.35%	6.50%	0	0.00%
SA .....	6.15% – LIBOR	5.96000%	0.00%	6.15%	0	6.15%
<b>Security Group 3</b>						
CI .....	62.00% – (LIBOR x 10)	1.00000%	0.00%	1.00%	0	6.20%
CS .....	6.10% – LIBOR	5.91325%	0.00%	6.10%	0	6.10%
<b>Security Group 4</b>						
DS .....	3.45% – LIBOR	3.26325%	0.00%	3.45%	0	3.45%
<b>Security Group 5</b>						
ES .....	6.05% – LIBOR	5.86325%	0.00%	6.05%	0	6.05%
<b>Security Group 6</b>						
GS .....	6.20% – LIBOR	6.01325%	0.00%	6.20%	0	6.20%
<b>Security Group 11</b>						
IN .....	6.05% – LIBOR	5.86325%	0.00%	6.05%	0	6.05%
NS .....	6.05% – LIBOR	5.86325%	0.00%	6.05%	0	6.05%
NT .....	6.10% – LIBOR	0.05000%	0.00%	0.05%	0	6.10%
SN .....	6.05% – LIBOR	5.86325%	0.00%	6.05%	0	6.05%
<b>Security Group 12</b>						
MI .....	6.05% – LIBOR	5.86325%	0.00%	6.05%	0	6.05%
MS .....	6.05% – LIBOR	5.86325%	0.00%	6.05%	0	6.05%
MT .....	6.10% – LIBOR	0.05000%	0.00%	0.05%	0	6.10%
SM .....	6.05% – LIBOR	5.86325%	0.00%	6.05%	0	6.05%
<b>Security Group 13</b>						
IM .....	5.69% – LIBOR	5.50325%	0.00%	5.69%	0	5.69%
IQ .....	5.69% – LIBOR	5.50325%	0.00%	5.69%	0	5.69%
NI .....	5.69% – LIBOR	5.50325%	0.00%	5.69%	0	5.69%
QI .....	5.69% – LIBOR	5.50325%	0.00%	5.69%	0	5.69%
QS .....	5.69% – LIBOR	5.50325%	0.00%	5.69%	0	5.69%
QT .....	6.70% – LIBOR	1.01000%	0.00%	1.01%	0	6.70%
SQ .....	5.69% – LIBOR	5.50325%	0.00%	5.69%	0	5.69%
TM .....	6.60% – LIBOR	0.91000%	0.00%	0.91%	0	6.60%
TN .....	6.15% – LIBOR	0.46000%	0.00%	0.46%	0	6.15%
TQ .....	6.00% – LIBOR	0.31000%	0.00%	0.31%	0	6.00%
TW .....	6.25% – LIBOR	0.56000%	0.00%	0.56%	0	6.25%
WI .....	5.69% – LIBOR	5.50325%	0.00%	5.69%	0	5.69%
<b>Security Group 14</b>						
IW .....	6.10% – LIBOR	5.91325%	0.00%	6.10%	0	6.10%
SW .....	6.10% – LIBOR	5.91325%	0.00%	6.10%	0	6.10%
WS .....	6.10% – LIBOR	5.91325%	0.00%	6.10%	0	6.10%

<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>LIBOR for Minimum Interest Rate</u>
<b>Security Group 15</b>						
KF .....	LIBOR + 0.35%	0.54000%	0.35%	6.50%	0	0.00%
KS .....	6.15% – LIBOR	5.96000%	0.00%	6.15%	0	6.15%
KT .....	6.15% – LIBOR	1.15000%	0.00%	1.15%	0	6.15%
SK .....	5.00% – LIBOR	4.81000%	0.00%	5.00%	0	5.00%

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

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

**SECURITY GROUP 1**

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

**SECURITY GROUP 7**

The Subgroup 7A Principal Distribution Amount, the Subgroup 7B Principal Distribution Amount, the HZ Accrual Amount and the ZH Accrual Amount will be allocated as follows:

- The ZH Accrual Amount, sequentially, to HB and ZH, in that order, until retired
- The Subgroup 7A Principal Distribution Amount and the HZ Accrual Amount in the following order of priority:
  1. Sequentially, to HB and ZH, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
  2. To HZ, until retired
  3. Sequentially, to HB and ZH, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired
- The Subgroup 7B Principal Distribution Amount to HC, until retired

**SECURITY GROUP 8**

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

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

**SECURITY GROUP 9**

The Group 9 Principal Distribution Amount will be allocated to D, until retired

**SECURITY GROUP 10**

The Group 10 Principal Distribution Amount will be allocated to G, until retired

**SECURITY GROUP 15**

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

**SECURITY GROUP 16**

The Group 16 Principal Distribution Amount will be allocated to LC, 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 Range or Rate:

<u>Security Group</u>	<u>Structuring Range or Rate</u>
<b>TAC Classes</b>	
7 HB and ZH (in the aggregate) .....	350% PSA
<b>PAC Class</b>	
8 PH .....	175% PSA through 285% 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 of the related Class or the outstanding notional balance of the related Trust Asset Group or Subgroup indicated:

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
<b>Security Group 1</b>		
AI .....	\$ 35,797,940	28.5714285714% of AG (PT Class)
SA .....	62,646,394	100% of FA (PT Class)
<b>Security Group 2</b>		
BI .....	\$ 23,662,085	100% of the Group 2 Trust Assets
<b>Security Group 3</b>		
CI .....	\$ 3,328,912	10% of the Subgroup 3A Trust Assets
CS .....	92,538,153	100% of the Group 3 Trust Assets
<b>Security Group 4</b>		
DS .....	\$103,065,270	100% of the Group 4 Trust Assets
<b>Security Group 5</b>		
ES .....	\$ 68,710,180	100% of the Group 5 Trust Assets



<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
<b>Security Group 6</b>		
GS .....	\$ 66,473,586	100% of the Group 6 Trust Assets
<b>Security Group 7</b>		
HI .....	\$ 19,806,400	40% of HB (SC/TAC/AD Class)
	4,375,755	50% of HC (SC/PT Class)
	<u>\$ 24,182,155</u>	
<b>Security Group 8</b>		
PI .....	\$ 10,822,714	42.8571428571% of PH (SC/PAC/AD Class)
<b>Security Group 9</b>		
DI .....	\$161,185,162	66.6666666667% of D (PT Class)
<b>Security Group 10</b>		
GI .....	\$ 37,872,982	66.6666666667% of G (PT Class)
<b>Security Group 11</b>		
IN .....	\$ 6,614,208	100% of the Subgroup 11B Trust Assets
NS .....	13,789,925	100% of the Subgroup 11A Trust Assets
NT .....	6,614,208	100% of the Subgroup 11B Trust Assets
SN .....	20,404,133	100% of the Group 11 Trust Assets
<b>Security Group 12</b>		
MI .....	\$ 18,431,219	100% of the Subgroup 12A Trust Assets
MS .....	15,976,295	100% of the Subgroup 12B Trust Assets
MT .....	15,976,295	100% of the Subgroup 12B Trust Assets
SM .....	34,407,514	100% of the Group 12 Trust Assets
<b>Security Group 13</b>		
IM .....	\$ 5,737,292	100% of the Subgroup 13A Trust Assets
IQ .....	4,100,552	100% of the Subgroup 13C Trust Assets
NI .....	5,454,963	100% of the Subgroup 13B Trust Assets
QI .....	2,746,793	100% of the Subgroup 13D Trust Assets
QS .....	2,673,135	100% of the Subgroup 13E Trust Assets
QT .....	2,746,793	100% of the Subgroup 13D Trust Assets
SQ .....	21,923,974	100% of the Group 13 Trust Assets
TM .....	5,454,963	100% of the Subgroup 13B Trust Assets
TN .....	4,100,552	100% of the Subgroup 13C Trust Assets
TQ .....	2,673,135	100% of the Subgroup 13E Trust Assets
TW .....	1,211,239	100% of the Subgroup 13F Trust Assets
WI .....	1,211,239	100% of the Subgroup 13F Trust Assets
<b>Security Group 14</b>		
IW .....	\$ 8,931,358	100% of the Subgroup 14B Trust Assets
SW .....	46,970,221	100% of the Group 14 Trust Assets
WS .....	38,038,863	100% of the Subgroup 14A Trust Assets
<b>Security Group 15</b>		
KS .....	\$ 52,857,142	100% of KF (PT Class)
KT .....	52,857,142	100% of KF (PT Class)
SK .....	52,857,142	100% of KF (PT Class)
<b>Security Group 16</b>		
LI .....	\$ 14,287,635	57.1428571429% of LC (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 or less than amounts previously advanced by such issuer in connection with its responsibilities as servicer of such mortgage loan to the extent that (i) in the case of a mortgage loan included in a pool of mortgage loans underlying a Ginnie Mae MBS certificate issued on or before December 1, 2002, such mortgage loan has been delinquent for four consecutive months, and at least one delinquent payment remains uncured or (ii) in the case of a mortgage loan included in a pool of mortgage loans underlying a Ginnie Mae MBS certificate issued on or after January 1, 2003, no payment has been made on such mortgage loan for three consecutive months. Any such repurchase will result in prepayment of the principal balance or reduction in the notional balance of the securities ultimately backed by such mortgage loan. No assurances can be given as to the timing or frequency of any such repurchases.

***The levels of LIBOR will affect the yields on the floating rate and inverse floating rate securities.*** If LIBOR performs differently from what you expect, the yield on the floating rate and inverse floating rate securities may be lower than you expect. Lower levels of LIBOR will generally reduce the yield on floating rate securities; higher levels of LIBOR will generally reduce the yield on inverse floating rate securities. You should bear in mind that the timing of changes in the level of LIBOR may affect your yield: generally, the earlier a change, the greater the effect on your yield. It is doubtful that LIBOR 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 2 through 8 and 11 through 14 securities.*** The underlying certificates will be sensitive in varying degrees to:

- the rate of payments of principal (including prepayments) of the related mortgage loans, and
- the priorities for the distribution of principal among the classes of the related underlying series.

As described in the related underlying certificate disclosure documents, the principal entitlements of and the reductions in notional balance of certain of the underlying certificates included in trust asset groups 2 and 8 and subgroups 7A, 11B, 12B, 13C, 13D and 14B on any payment date are calculated, directly or indirectly, on the basis of schedules; no assurance can be given

that the underlying certificates will adhere to their schedules. Further, prepayments on the related mortgage loans may have occurred at rates faster or slower than those initially assumed.

The trust assets underlying certain of the underlying certificates included in trust asset groups 2 and 6 and subgroups 7A, 7B, 11A, 11B, 12A and 12B are also previously issued certificates that represent beneficial ownership interests in separate trusts. The rate of payments on the previously issued certificates backing these underlying certificates will directly affect the timing and rate of payments on the group 2, 6, 7, 11 and 12 securities. You should read the related underlying certificate disclosure documents, including the risk factors contained therein, to understand the payments on and related risks of the previously issued certificates backing these underlying certificates.

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

***Up to 10% of the mortgage loans underlying the group 1, 6, 9, 10, 15 and 16 trust assets and up to 100% of the mortgage loans underlying the group 2 through 5, 7, 8, and 11 through 14 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.

***Changes to, the elimination of, and uncertainty with respect to, LIBOR could adversely affect your investment in LIBOR Classes.*** On July 27, 2017, the U.K.-based Financial Conduct Authority (the “FCA”) announced its intention to cease sustaining LIBOR after 2021. The FCA indicated that it does not intend to sustain LIBOR through using its influence or legal powers beyond that date. It is possible that the ICE Benchmark Administration (“ICE”) and the reference banks could continue to produce LIBOR on the current basis after 2021, if they are willing and able to do so, but it cannot be predicted or assured whether LIBOR will survive in its current form, a modified form, or at all. If LIBOR changes in a manner that causes regulators or market participants to question LIBOR’s continued viability as a benchmark, or if LIBOR becomes unavailable, investors in financial instruments linked to LIBOR will likely experience disparate outcomes based on relevant contractual terms, market or product type, jurisdiction, and a host of other factors. There can be no assurance that legislative or regulatory actions will provide for an effective LIBOR substitute or replacement or that broadly accepted industry practices regarding LIBOR cessation will develop. It is uncertain what effect such disparate outcomes or divergent industry practices will have on the performance or value of securities with an interest rate based on LIBOR (“LIBOR Classes”).

In the event of a benchmark transition event with respect to LIBOR, Ginnie Mae will select an alternative index for LIBOR Classes in accordance with the ARRC Endorsed Terms, as described under “Description of the Securities —

Interest Rate Indices — Determination of LIBOR” in the base offering circular. The ARRC Endorsed Terms, however, generally rely on actions to be taken by regulators or the Alternative Reference Rates Committee (“ARRC”) convened by the Federal Reserve Board and the Federal Reserve Bank of New York, and there can be no assurance whether or when those actions will be taken. Further, there can be no assurance that those actions or related events will be sufficient to trigger a change from LIBOR to an alternative index in all circumstances where LIBOR is no longer representative of market interest rates, or that benchmark transition events for the LIBOR Classes will align with similar events in the market generally or in other parts of the financial markets, such as the derivatives market.

The ARRC Endorsed Terms provide for various alternative benchmarks based on availability: the first two alternatives involve the secured overnight financing rate (“SOFR”) published by the Federal Reserve Bank of New York, and the last two alternatives are not currently specified. SOFR is a secured, risk-free rate that is calculated based on different criteria than LIBOR, which is an unsecured rate reflecting counterparty risk. Accordingly, SOFR and LIBOR may diverge, particularly in times of macroeconomic stress. Since the initial publication of SOFR in April 2018, daily changes in SOFR have at times been more volatile than daily changes in comparable benchmark or market rates. Over the lives of the LIBOR Classes, SOFR may diverge from historical or indicative data. Term SOFR, which is the first alternative benchmark, is expected to be a prospective term rate based on SOFR. Term SOFR is currently in development and no assurance can be provided that its development will be completed. If term SOFR is unavailable as of the benchmark replacement date, as defined in the base offering circular under “Description of the Securities — Interest Rate Indices — Determination of LIBOR”, the next alternative benchmark is compounded SOFR. Compounded SOFR is a compounded average for which there are multiple methodologies, which may also diverge from LIBOR. If a benchmark replacement other than term SOFR is chosen because term SOFR is not initially available, term SOFR will

become the benchmark replacement if it later becomes available, which could lead to further volatility in the interest rates on the LIBOR Classes. Moreover, a benchmark replacement adjustment will be applied to compensate for the foregoing effects of any benchmark replacement. However, no assurance can be provided that any benchmark replacement adjustment will be sufficient to produce the economic equivalent of the then-current benchmark, either at the benchmark replacement date or over the lives of the LIBOR Classes. Additionally, Ginnie Mae cannot anticipate how long it will take to develop the systems and processes necessary to adopt a specific benchmark replacement, which may delay and contribute to uncertainty and volatility surrounding any benchmark transition for LIBOR Classes.

Ginnie Mae will have sole discretion with respect to certain elements of the benchmark replacement process, including determining whether a benchmark transition event and its related benchmark replacement date have occurred, determining which benchmark replacement is available, determining the earliest practicable index determination date for using the benchmark replacement, selecting a benchmark replacement in the event term SOFR or compounded SOFR is unavailable, determining benchmark replacement adjustments (if not otherwise determined by applicable governing bodies or authorities) and making benchmark replacement conforming changes (including potential changes affecting the business day convention and index determination date). If Ginnie Mae, in its sole discretion, determines that an alternative index is not administratively feasible, including as a result of technical, administrative or operational issues, then such alternative index will be deemed not determinable as of such date. Ginnie Mae may determine an alternative not to be administratively feasible even if such alternative index has been adopted by other market participants in similar products. Furthermore, if Ginnie Mae does not select an alternative index on any date as a result of its determination that an alternative higher on the list of ARRC Endorsed Terms is not administratively feasible as of such date and such higher alternative subsequently becomes admin-



istratively feasible (as determined by Ginnie Mae in its sole discretion), then Ginnie Mae may elect to replace the previously selected alternative with such higher alternative. Any of the foregoing determinations will be at the sole discretion of Ginnie Mae and may adversely affect the return on LIBOR Classes, the trading market for such classes and the value of such classes. None of the foregoing determinations, or the application thereof to payment calculations on the LIBOR Classes, will be subject to the approval of security holders.

Notwithstanding the foregoing, Ginnie Mae will select only an alternative index as to which it and the trustee will receive an opinion of counsel that the selection of such alternative index will not cause any related Trust REMIC to lose its classification as a REMIC for United States federal income tax purposes.

***The securities may not be a suitable investment for you.*** The securities, especially the group 2 through 8 and 11 through 14 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 the Underlying Certificates, will evidence, directly or indirectly, Ginnie Mae Certificates.

### **The Trust MBS (Groups 1, 9, 10, 15 and 16)**

The Group 1, 9, 10, 15 and 16 Trust Assets are either:

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

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

### **The Underlying Certificates (Groups 2 through 8 and 11 through 14)**

The Group 2 through 8 and 11 through 14 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](http://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, 9, 10, 15 and 16 Trust Assets are expected to have, on a weighted average basis, the characteristics set forth in the Terms Sheet under “Assumed Characteristics of the Mortgage Loans Underlying the Group 1, 9, 10, 15 and 16 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 and Inverse Floating Rate Classes	From the 20th day of the month preceding the month of the related Distribution Date through the 19th day of the month of that Distribution Date

### *Fixed Rate Classes*

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

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

The Floating Rate and Inverse Floating Rate Classes will bear interest as shown under “Terms Sheet — Interest Rates” in this Supplement. The Interest Rates for the Floating Rate and Inverse Floating Rate Classes will be based on LIBOR. The Trustee or its agent will determine LIBOR on the basis of the

ICE LIBOR method, as described under “Description of the Securities — Interest Rate Indices — Determination of LIBOR” in the Base Offering Circular. In the case of the Group 3 through 6 and 11 through 14 Securities, the Trustee will use the same values of LIBOR as are used for the related Underlying Certificates.

We can provide no assurance that LIBOR for a Distribution Date accurately represents the offered rate at which one-month U.S. dollar deposits are being quoted to prime banks in the London interbank market, nor that the procedures for calculating LIBOR on the basis of the ICE LIBOR method for one-month U.S. dollar deposits will not change. Any change in LIBOR values resulting from any change in reporting or in the determination of LIBOR may cause LIBOR to fluctuate disproportionately to changes in other market lending rates. If LIBOR becomes unavailable, a replacement rate will be selected, as described under “Description of the Securities — Interest Rate Indices — Determination of LIBOR” in the Base Offering Circular.

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

#### *Accrual Classes*

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

## **Class Factors**

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

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

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

## **Termination**

The Trustee, at its option, may purchase or cause the sale of the Trust Assets and thereby terminate the Trust on any Distribution Date on which the aggregate of the Class Principal Balances of the Securities is less than 1% of the aggregate Original Class Principal Balances of the Securities. 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, 3, 4, 5 and 6, 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, 3, 4 and 5, the related REMIC Securities may be exchanged for proportionate interests in various subcombinations of MX Classes. Similarly, all or a portion of these MX Classes may be exchanged for proportionate interests in the related REMIC Securities or in other subcombinations of the related MX Classes. Each subcombination may be effected only in proportions that result in the principal and interest entitlements of the Securities received being equal to the entitlements of the Securities surrendered. *See the example under “Description of the Securities — Modification and Exchange” in the Base Offering Circular.*

A Beneficial Owner proposing to effect an exchange must notify the Trustee through the Beneficial Owner’s Book-Entry Depository participant. This notice must be received by the Trustee not later than two Business Days before the proposed exchange date. The exchange date can be any Business Day other than the last Business Day of the month. The notice must contain the outstanding principal and notional balances of the Securities to be included in the exchange and the proposed exchange date. The notice is required to be delivered to the Trustee by email to USBGNMATEam@usbank.com or in writing at its Corporate Trust Office at U.S. Bank National Association, One Federal Street, 3rd Floor, Boston, Massachusetts, 02110, Attention: Ginnie Mae REMIC Trust 2020-096. 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 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 2 through 8 and 11 through 14 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 2 through 8 and 11 through 14 securities” in this Supplement.

**Accretion Directed Classes**

Classes HB, PH and ZH are Accretion Directed Classes. The related Accrual Amounts will be applied to making principal distributions on those Classes as described in this Supplement. Class HI is a Notional Class whose Class Notional Balance is determined by reference to the Class Principal Balance of Class HB shown under “Terms Sheet — Notional Classes” in this Supplement.

Each of the Accretion Directed Classes has the AD designation in the suffix position, rather than the prefix position, in its class principal type because it does not have principal payment stability through the applicable pricing prepayment assumption. Although the Accretion Directed Classes are entitled to receive payments from the related Accrual Amounts, they do not have principal payment stability through any constant prepayment rate significantly higher than 0% PSA, except within any applicable Effective Range.

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

As described in this Supplement, each PAC 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 Range or Rate for the PAC and TAC Classes are as follows:

<u>Security Group</u>	<u>Initial Effective Range or Rate</u>
<b>TAC Classes</b>	
7 HB and ZH (in the aggregate) . . . . .	350% PSA
<b>PAC Class</b>	
8 PH . . . . .	175% PSA through 285% PSA



- The principal payment stability of the PAC 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 the Class supporting a given Class is retired before the Class being supported is retired, the outstanding Class will no longer have an Effective Range 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 Range or Rate. If the initial Effective Range or Rate were calculated using the actual characteristics of the related Mortgage Loans, the initial Effective Range or Rate could differ from that 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 the 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 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, 9, 10, 15 and 16 Trust Assets have the assumed characteristics shown under “Assumed Characteristics of the Mortgage Loans Underlying the Group 1, 9, 10, 15 and 16 Trust Assets” in the Terms Sheet, except in the case of information set forth under the 0% PSA Prepayment Assumption Rate, for which each Mortgage Loan underlying a Group 1, 9, 10, 15 or 16 Trust Asset is assumed to have an original and a remaining term to maturity of 360 months and a Mortgage Rate of 1.50% per annum higher than the related Certificate Rate.

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

3. Distributions on the Securities are always received on the 20th day of the month, whether or not a Business Day, commencing in August 2020.

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

5. The Closing Date for the Securities is July 30, 2020.

6. No expenses or fees are paid by the Trust other than the Trustee Fee, which is paid as described under “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.

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

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

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

## Decrement Tables

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

The decrement tables set forth below are based on the assumption that the Mortgage Loans prepay at the indicated percentages of PSA (the “PSA Prepayment Assumption Rates”). As used in the tables, each of the PSA Prepayment Assumption Rates reflects a percentage of the 100% PSA assumed

prepayment rate. **The Mortgage Loans will not prepay at any of the PSA Prepayment Assumption Rates, and the timing of changes in the rate of prepayments actually experienced on the Mortgage Loans will not follow the pattern described for the PSA assumption.**

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

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

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

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

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

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

Security Group 1 PSA Prepayment Assumption Rates						
Classes AB, AC, AD, AE, AG, AI, FA and SA						
Distribution Date	0%	100%	400%	700%	1,050%	1,400%
Initial Percent . . .	100	100	100	100	100	100
July 2021 . . . . .	99	96	90	84	76	69
July 2022 . . . . .	97	90	72	56	39	24
July 2023 . . . . .	95	83	54	32	14	4
July 2024 . . . . .	94	76	40	18	5	1
July 2025 . . . . .	92	70	30	10	2	0
July 2026 . . . . .	90	64	22	6	1	0
July 2027 . . . . .	88	59	16	3	0	0
July 2028 . . . . .	86	54	12	2	0	0
July 2029 . . . . .	84	49	9	1	0	0
July 2030 . . . . .	81	44	7	1	0	0
July 2031 . . . . .	79	40	5	0	0	0
July 2032 . . . . .	76	36	3	0	0	0
July 2033 . . . . .	74	33	3	0	0	0
July 2034 . . . . .	71	29	2	0	0	0
July 2035 . . . . .	68	26	1	0	0	0
July 2036 . . . . .	65	24	1	0	0	0
July 2037 . . . . .	61	21	1	0	0	0
July 2038 . . . . .	58	18	0	0	0	0
July 2039 . . . . .	54	16	0	0	0	0
July 2040 . . . . .	51	14	0	0	0	0
July 2041 . . . . .	47	12	0	0	0	0
July 2042 . . . . .	42	10	0	0	0	0
July 2043 . . . . .	38	8	0	0	0	0
July 2044 . . . . .	33	7	0	0	0	0
July 2045 . . . . .	28	5	0	0	0	0
July 2046 . . . . .	23	4	0	0	0	0
July 2047 . . . . .	18	3	0	0	0	0
July 2048 . . . . .	12	1	0	0	0	0
July 2049 . . . . .	6	0	0	0	0	0
July 2050 . . . . .	0	0	0	0	0	0
Weighted Average Life (years) . . . .	18.6	10.4	4.2	2.6	1.9	1.5

Security Group 2 PSA Prepayment Assumption Rates						
Class BI						
Distribution Date	0%	100%	350%	582%	900%	1,200%
Initial Percent . . .	100	100	100	100	100	100
July 2021 . . . . .	98	91	74	58	36	16
July 2022 . . . . .	96	82	52	28	6	0
July 2023 . . . . .	93	74	34	9	1	0
July 2024 . . . . .	91	66	21	4	0	0
July 2025 . . . . .	88	58	10	1	0	0
July 2026 . . . . .	85	51	6	0	0	0
July 2027 . . . . .	83	45	4	0	0	0
July 2028 . . . . .	79	39	2	0	0	0
July 2029 . . . . .	76	33	1	0	0	0
July 2030 . . . . .	73	28	0	0	0	0
July 2031 . . . . .	69	23	0	0	0	0
July 2032 . . . . .	66	18	0	0	0	0
July 2033 . . . . .	62	14	0	0	0	0
July 2034 . . . . .	58	10	0	0	0	0
July 2035 . . . . .	54	8	0	0	0	0
July 2036 . . . . .	49	6	0	0	0	0
July 2037 . . . . .	44	5	0	0	0	0
July 2038 . . . . .	39	4	0	0	0	0
July 2039 . . . . .	34	3	0	0	0	0
July 2040 . . . . .	29	2	0	0	0	0
July 2041 . . . . .	23	1	0	0	0	0
July 2042 . . . . .	17	0	0	0	0	0
July 2043 . . . . .	11	0	0	0	0	0
July 2044 . . . . .	7	0	0	0	0	0
July 2045 . . . . .	5	0	0	0	0	0
July 2046 . . . . .	2	0	0	0	0	0
July 2047 . . . . .	0	0	0	0	0	0
July 2048 . . . . .	0	0	0	0	0	0
Weighted Average Life (years) . . . .	14.8	7.1	2.5	1.5	0.9	0.6

**Security Group 3  
PSA Prepayment Assumption Rates**

Distribution Date	Class CI						Class CS					
	0%	100%	350%	582%	900%	1,200%	0%	100%	350%	582%	900%	1,200%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	92	78	64	46	29	98	93	81	69	53	38
July 2022	96	85	60	41	21	8	97	86	63	44	24	11
July 2023	94	79	47	26	9	2	95	79	49	28	11	3
July 2024	92	72	36	17	4	1	93	73	38	18	5	1
July 2025	90	66	28	11	2	0	91	67	29	12	2	0
July 2026	88	61	21	7	1	0	89	62	22	7	1	0
July 2027	86	56	17	4	0	0	86	57	17	5	0	0
July 2028	83	51	13	3	0	0	84	52	13	3	0	0
July 2029	81	46	10	2	0	0	81	47	10	2	0	0
July 2030	78	42	7	1	0	0	79	43	8	1	0	0
July 2031	75	38	6	1	0	0	76	39	6	1	0	0
July 2032	72	34	4	0	0	0	73	35	5	0	0	0
July 2033	69	31	3	0	0	0	70	32	3	0	0	0
July 2034	65	28	2	0	0	0	67	28	3	0	0	0
July 2035	62	25	2	0	0	0	64	25	2	0	0	0
July 2036	58	22	1	0	0	0	60	23	1	0	0	0
July 2037	54	19	1	0	0	0	56	20	1	0	0	0
July 2038	50	17	1	0	0	0	52	17	1	0	0	0
July 2039	46	14	1	0	0	0	48	15	1	0	0	0
July 2040	42	12	0	0	0	0	44	13	0	0	0	0
July 2041	37	10	0	0	0	0	40	11	0	0	0	0
July 2042	32	8	0	0	0	0	35	9	0	0	0	0
July 2043	27	6	0	0	0	0	30	7	0	0	0	0
July 2044	21	5	0	0	0	0	25	6	0	0	0	0
July 2045	15	3	0	0	0	0	19	4	0	0	0	0
July 2046	10	2	0	0	0	0	13	3	0	0	0	0
July 2047	3	1	0	0	0	0	7	1	0	0	0	0
July 2048	0	0	0	0	0	0	2	0	0	0	0	0
July 2049	0	0	0	0	0	0	0	0	0	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	16.8	9.7	3.9	2.3	1.3	0.8	17.2	10.0	4.0	2.4	1.4	1.0

**Security Group 4  
PSA Prepayment Assumption Rates**

Distribution Date	Class DS					
	0%	100%	300%	484%	750%	1,000%
Initial Percent	100	100	100	100	100	100
July 2021	99	94	86	78	67	56
July 2022	97	87	70	55	37	23
July 2023	95	81	56	38	20	9
July 2024	94	75	45	27	11	4
July 2025	92	69	36	19	6	1
July 2026	90	63	29	13	3	1
July 2027	88	58	23	9	2	0
July 2028	86	53	19	6	1	0
July 2029	83	49	15	4	0	0
July 2030	81	45	12	3	0	0
July 2031	78	41	9	2	0	0
July 2032	76	37	7	1	0	0
July 2033	73	33	6	1	0	0
July 2034	70	30	5	1	0	0
July 2035	67	27	4	0	0	0
July 2036	63	24	3	0	0	0
July 2037	60	21	2	0	0	0
July 2038	56	19	2	0	0	0
July 2039	52	16	1	0	0	0
July 2040	48	14	1	0	0	0
July 2041	44	12	1	0	0	0
July 2042	39	10	1	0	0	0
July 2043	34	8	0	0	0	0
July 2044	29	7	0	0	0	0
July 2045	23	5	0	0	0	0
July 2046	17	4	0	0	0	0
July 2047	11	2	0	0	0	0
July 2048	4	1	0	0	0	0
July 2049	0	0	0	0	0	0
July 2050	0	0	0	0	0	0
Weighted Average Life (years)	18.0	10.4	4.8	3.1	2.0	1.4

**Security Group 5  
PSA Prepayment Assumption Rates**

Distribution Date	Class ES					
	0%	100%	300%	484%	750%	1,000%
Initial Percent . . .	100	100	100	100	100	100
July 2021 . . . . .	99	94	86	78	67	56
July 2022 . . . . .	97	87	70	55	37	23
July 2023 . . . . .	95	81	56	38	20	9
July 2024 . . . . .	94	75	45	27	11	4
July 2025 . . . . .	92	69	36	19	6	1
July 2026 . . . . .	90	63	29	13	3	1
July 2027 . . . . .	88	58	23	9	2	0
July 2028 . . . . .	86	53	19	6	1	0
July 2029 . . . . .	83	49	15	4	0	0
July 2030 . . . . .	81	45	12	3	0	0
July 2031 . . . . .	78	41	9	2	0	0
July 2032 . . . . .	76	37	7	1	0	0
July 2033 . . . . .	73	33	6	1	0	0
July 2034 . . . . .	70	30	5	1	0	0
July 2035 . . . . .	67	27	4	0	0	0
July 2036 . . . . .	63	24	3	0	0	0
July 2037 . . . . .	60	21	2	0	0	0
July 2038 . . . . .	56	19	2	0	0	0
July 2039 . . . . .	52	16	1	0	0	0
July 2040 . . . . .	48	14	1	0	0	0
July 2041 . . . . .	44	12	1	0	0	0
July 2042 . . . . .	39	10	1	0	0	0
July 2043 . . . . .	34	8	0	0	0	0
July 2044 . . . . .	29	7	0	0	0	0
July 2045 . . . . .	23	5	0	0	0	0
July 2046 . . . . .	17	4	0	0	0	0
July 2047 . . . . .	11	2	0	0	0	0
July 2048 . . . . .	4	1	0	0	0	0
July 2049 . . . . .	0	0	0	0	0	0
July 2050 . . . . .	0	0	0	0	0	0
Weighted Average Life (years) . . . . .	18.0	10.4	4.8	3.1	2.0	1.4

**Security Group 6  
PSA Prepayment Assumption Rates**

Distribution Date	Class GS				
	0%	100%	293%	450%	600%
Initial Percent . . . . .	100	100	100	100	100
July 2021 . . . . .	98	92	80	71	62
July 2022 . . . . .	95	84	65	51	39
July 2023 . . . . .	93	77	52	36	24
July 2024 . . . . .	90	70	42	26	15
July 2025 . . . . .	87	64	33	18	9
July 2026 . . . . .	84	58	26	13	6
July 2027 . . . . .	81	53	21	9	4
July 2028 . . . . .	78	48	17	6	2
July 2029 . . . . .	75	43	13	4	1
July 2030 . . . . .	71	38	10	3	1
July 2031 . . . . .	68	34	8	2	0
July 2032 . . . . .	64	30	6	1	0
July 2033 . . . . .	60	27	5	1	0
July 2034 . . . . .	56	23	4	1	0
July 2035 . . . . .	51	20	3	0	0
July 2036 . . . . .	47	17	2	0	0
July 2037 . . . . .	42	15	2	0	0
July 2038 . . . . .	37	12	1	0	0
July 2039 . . . . .	32	10	1	0	0
July 2040 . . . . .	27	8	1	0	0
July 2041 . . . . .	21	6	0	0	0
July 2042 . . . . .	15	4	0	0	0
July 2043 . . . . .	9	2	0	0	0
July 2044 . . . . .	3	1	0	0	0
July 2045 . . . . .	0	0	0	0	0
July 2046 . . . . .	0	0	0	0	0
Weighted Average Life (years) . . . . .	14.3	8.9	4.4	2.9	2.1

**Security Group 7  
PSA Prepayment Assumption Rates**

Distribution Date	Class HA						Class HB						Class HC					
	0%	100%	350%	475%	750%	1,000%	0%	100%	350%	475%	750%	1,000%	0%	100%	350%	475%	750%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	93	81	76	63	50	98	93	81	77	63	51	98	93	81	74	60	47
July 2022	97	86	63	53	34	19	97	86	63	54	34	20	97	86	62	52	32	18
July 2023	95	79	48	37	18	7	95	79	48	37	18	7	95	80	48	36	17	7
July 2024	93	73	37	26	9	2	93	73	37	26	9	2	93	73	37	25	9	2
July 2025	91	67	28	18	5	0	91	67	28	18	5	0	91	67	29	17	4	0
July 2026	89	61	21	12	2	0	89	61	21	12	2	0	89	62	22	12	2	0
July 2027	86	56	15	8	1	0	86	56	15	8	1	0	87	57	17	8	1	0
July 2028	84	51	11	5	0	0	84	51	11	5	0	0	85	52	13	5	0	0
July 2029	82	46	8	3	0	0	81	46	8	3	0	0	82	47	9	3	0	0
July 2030	79	42	5	2	0	0	79	42	5	2	0	0	80	43	7	2	0	0
July 2031	76	38	3	1	0	0	76	37	3	1	0	0	77	39	5	1	0	0
July 2032	73	34	2	1	0	0	73	33	1	0	0	0	74	35	4	1	0	0
July 2033	70	30	1	0	0	0	70	30	0	0	0	0	72	32	3	0	0	0
July 2034	67	27	0	0	0	0	67	26	0	0	0	0	68	28	2	0	0	0
July 2035	63	23	0	0	0	0	63	23	0	0	0	0	65	25	1	0	0	0
July 2036	60	20	0	0	0	0	59	20	0	0	0	0	62	23	1	0	0	0
July 2037	56	18	0	0	0	0	56	17	0	0	0	0	58	20	0	0	0	0
July 2038	52	15	0	0	0	0	51	14	0	0	0	0	54	17	0	0	0	0
July 2039	47	12	0	0	0	0	47	12	0	0	0	0	50	15	0	0	0	0
July 2040	43	10	0	0	0	0	43	10	0	0	0	0	45	13	0	0	0	0
July 2041	38	8	0	0	0	0	38	7	0	0	0	0	41	11	0	0	0	0
July 2042	33	6	0	0	0	0	33	5	0	0	0	0	36	9	0	0	0	0
July 2043	28	4	0	0	0	0	27	3	0	0	0	0	31	7	0	0	0	0
July 2044	22	2	0	0	0	0	22	1	0	0	0	0	25	5	0	0	0	0
July 2045	16	1	0	0	0	0	16	0	0	0	0	0	20	4	0	0	0	0
July 2046	10	0	0	0	0	0	9	0	0	0	0	0	14	2	0	0	0	0
July 2047	4	0	0	0	0	0	3	0	0	0	0	0	7	1	0	0	0	0
July 2048	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
July 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.0	9.5	3.7	2.9	1.8	1.3	17.0	9.4	3.7	2.9	1.8	1.3	17.5	10.0	3.9	2.9	1.7	1.2

**PSA Prepayment Assumption Rates**

Distribution Date	Class HI						Class HZ						Class ZH					
	0%	100%	350%	475%	750%	1,000%	0%	100%	350%	475%	750%	1,000%	0%	100%	350%	475%	750%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	93	81	76	63	50	103	103	103	0	0	0	103	103	103	103	103	103
July 2022	97	86	63	53	34	19	106	106	106	0	0	0	106	106	106	106	106	106
July 2023	95	79	48	37	18	7	109	109	109	0	0	0	109	109	109	109	109	109
July 2024	93	73	37	26	9	2	113	113	113	0	0	0	113	113	113	113	113	113
July 2025	91	67	28	18	5	0	116	116	116	0	0	0	116	116	116	116	116	116
July 2026	89	61	21	12	2	0	120	120	120	0	0	0	120	120	120	120	120	82
July 2027	87	56	15	8	1	0	123	123	123	0	0	0	123	123	123	123	123	32
July 2028	84	51	11	5	0	0	127	127	127	0	0	0	127	127	127	127	127	12
July 2029	82	46	8	3	0	0	131	131	131	0	0	0	131	131	131	131	75	5
July 2030	79	42	5	2	0	0	135	135	135	0	0	0	135	135	135	135	40	2
July 2031	76	38	3	1	0	0	139	139	139	0	0	0	139	139	139	139	21	1
July 2032	73	34	2	1	0	0	143	143	143	0	0	0	143	143	143	143	11	0
July 2033	70	30	1	0	0	0	148	148	148	0	0	0	148	148	148	148	6	0
July 2034	67	27	0	0	0	0	152	152	151	0	0	0	152	152	0	114	3	0
July 2035	63	24	0	0	0	0	157	157	110	0	0	0	157	157	0	78	2	0
July 2036	60	20	0	0	0	0	162	162	82	0	0	0	162	162	0	53	1	0
July 2037	56	18	0	0	0	0	166	166	61	0	0	0	166	166	0	35	0	0
July 2038	52	15	0	0	0	0	171	171	45	0	0	0	171	171	0	24	0	0
July 2039	48	12	0	0	0	0	177	177	33	0	0	0	177	177	0	16	0	0
July 2040	43	10	0	0	0	0	182	182	24	0	0	0	182	182	0	10	0	0
July 2041	38	8	0	0	0	0	188	188	17	0	0	0	188	188	0	7	0	0
July 2042	33	6	0	0	0	0	193	193	12	0	0	0	193	193	0	4	0	0
July 2043	28	4	0	0	0	0	199	199	8	0	0	0	199	199	0	3	0	0
July 2044	22	2	0	0	0	0	205	205	5	0	0	0	205	205	0	2	0	0
July 2045	16	1	0	0	0	0	212	212	3	0	0	0	212	124	0	1	0	0
July 2046	10	0	0	0	0	0	218	173	2	0	0	0	218	0	0	0	0	0
July 2047	4	0	0	0	0	0	225	98	1	0	0	0	225	0	0	0	0	0
July 2048	0	0	0	0	0	0	175	32	0	0	0	0	0	0	0	0	0	0
July 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.1	9.5	3.7	2.9	1.8	1.3	28.2	26.9	17.2	0.1	0.1	0.1	27.7	25.1	13.6	15.8	9.8	6.7

**Security Group 8  
PSA Prepayment Assumption Rates**

Distribution Date	Classes PA, PB, PC, PD, PE, PG, PH and PI					Class PZ				
	0%	175%	250%	285%	500%	0%	175%	250%	285%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100
July 2021	97	91	91	91	91	103	100	100	100	100
July 2022	94	79	79	79	76	105	103	103	103	0
July 2023	91	67	67	67	50	108	105	105	86	0
July 2024	88	57	57	57	31	111	108	92	42	0
July 2025	84	47	47	47	19	113	111	69	15	0
July 2026	81	37	37	37	10	116	113	57	3	0
July 2027	77	29	29	29	5	119	116	52	0	0
July 2028	73	22	22	22	1	122	113	49	0	0
July 2029	69	16	16	16	0	125	107	46	0	0
July 2030	65	11	11	11	0	128	99	42	0	0
July 2031	61	7	7	7	0	132	90	37	0	0
July 2032	56	4	4	4	0	135	81	33	0	0
July 2033	51	2	2	2	0	138	72	29	0	0
July 2034	47	0	0	0	0	142	61	22	0	0
July 2035	42	0	0	0	0	145	40	5	0	0
July 2036	36	0	0	0	0	149	22	0	0	0
July 2037	31	0	0	0	0	153	6	0	0	0
July 2038	25	0	0	0	0	157	0	0	0	0
July 2039	19	0	0	0	0	161	0	0	0	0
July 2040	13	0	0	0	0	165	0	0	0	0
July 2041	7	0	0	0	0	169	0	0	0	0
July 2042	0	0	0	0	0	172	0	0	0	0
July 2043	0	0	0	0	0	120	0	0	0	0
July 2044	0	0	0	0	0	65	0	0	0	0
July 2045	0	0	0	0	0	8	0	0	0	0
July 2046	0	0	0	0	0	0	0	0	0	0
July 2047	0	0	0	0	0	0	0	0	0	0
July 2048	0	0	0	0	0	0	0	0	0	0
July 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	12.6	5.2	5.2	5.2	3.3	23.6	13.3	8.4	3.8	1.5

**Security Group 9  
PSA Prepayment Assumption Rates**

Distribution Date	Classes D, DB, DC, DE, DH, DI, DJ, DK, DL and DM					
	0%	100%	350%	625%	950%	1,300%
Initial Percent	100	100	100	100	100	100
July 2021	98	96	92	88	82	76
July 2022	97	91	77	64	49	34
July 2023	95	83	60	39	21	8
July 2024	93	76	46	24	9	2
July 2025	91	70	36	15	4	0
July 2026	89	64	27	9	2	0
July 2027	87	59	21	5	1	0
July 2028	85	54	16	3	0	0
July 2029	83	49	12	2	0	0
July 2030	80	44	9	1	0	0
July 2031	78	40	7	1	0	0
July 2032	75	36	5	0	0	0
July 2033	72	33	4	0	0	0
July 2034	69	29	3	0	0	0
July 2035	66	26	2	0	0	0
July 2036	63	23	2	0	0	0
July 2037	60	21	1	0	0	0
July 2038	56	18	1	0	0	0
July 2039	53	16	1	0	0	0
July 2040	49	14	1	0	0	0
July 2041	45	12	0	0	0	0
July 2042	41	10	0	0	0	0
July 2043	36	8	0	0	0	0
July 2044	32	7	0	0	0	0
July 2045	27	5	0	0	0	0
July 2046	22	4	0	0	0	0
July 2047	17	3	0	0	0	0
July 2048	12	2	0	0	0	0
July 2049	6	1	0	0	0	0
July 2050	0	0	0	0	0	0
Weighted Average Life (years)	18.3	10.4	4.8	3.0	2.2	1.7



**Security Group 10  
PSA Prepayment Assumption Rates**

Distribution Date	Classes G, GC, GD, GE, GH, GI, GJ, GK, GL and GM					
	0%	100%	350%	625%	950%	1,300%
Initial Percent . . .	100	100	100	100	100	100
July 2021 . . . . .	98	97	94	90	86	81
July 2022 . . . . .	97	91	80	68	54	41
July 2023 . . . . .	95	84	62	42	24	10
July 2024 . . . . .	93	77	48	26	10	2
July 2025 . . . . .	91	71	37	16	4	0
July 2026 . . . . .	89	65	28	10	2	0
July 2027 . . . . .	87	59	22	6	1	0
July 2028 . . . . .	85	54	17	4	0	0
July 2029 . . . . .	83	49	13	2	0	0
July 2030 . . . . .	80	45	10	1	0	0
July 2031 . . . . .	78	41	7	1	0	0
July 2032 . . . . .	75	37	6	0	0	0
July 2033 . . . . .	72	33	4	0	0	0
July 2034 . . . . .	69	30	3	0	0	0
July 2035 . . . . .	66	26	2	0	0	0
July 2036 . . . . .	63	24	2	0	0	0
July 2037 . . . . .	60	21	1	0	0	0
July 2038 . . . . .	56	18	1	0	0	0
July 2039 . . . . .	53	16	1	0	0	0
July 2040 . . . . .	49	14	1	0	0	0
July 2041 . . . . .	45	12	0	0	0	0
July 2042 . . . . .	41	10	0	0	0	0
July 2043 . . . . .	36	8	0	0	0	0
July 2044 . . . . .	32	7	0	0	0	0
July 2045 . . . . .	27	5	0	0	0	0
July 2046 . . . . .	22	4	0	0	0	0
July 2047 . . . . .	17	3	0	0	0	0
July 2048 . . . . .	12	2	0	0	0	0
July 2049 . . . . .	6	1	0	0	0	0
July 2050 . . . . .	0	0	0	0	0	0
Weighted Average Life (years) . . . .	18.3	10.5	4.9	3.2	2.3	1.9

**Security Groups 9 and 10  
PSA Prepayment Assumption Rates**

Distribution Date	Class CE					
	0%	100%	350%	625%	950%	1,300%
Initial Percent . . .	100	100	100	100	100	100
July 2021 . . . . .	98	96	92	88	83	77
July 2022 . . . . .	97	91	78	64	50	35
July 2023 . . . . .	95	83	60	40	22	8
July 2024 . . . . .	93	77	47	24	9	2
July 2025 . . . . .	91	70	36	15	4	0
July 2026 . . . . .	89	64	28	9	2	0
July 2027 . . . . .	87	59	21	5	1	0
July 2028 . . . . .	85	54	16	3	0	0
July 2029 . . . . .	83	49	12	2	0	0
July 2030 . . . . .	80	44	10	1	0	0
July 2031 . . . . .	78	40	7	1	0	0
July 2032 . . . . .	75	36	6	0	0	0
July 2033 . . . . .	72	33	4	0	0	0
July 2034 . . . . .	69	29	3	0	0	0
July 2035 . . . . .	66	26	2	0	0	0
July 2036 . . . . .	63	23	2	0	0	0
July 2037 . . . . .	60	21	1	0	0	0
July 2038 . . . . .	56	18	1	0	0	0
July 2039 . . . . .	53	16	1	0	0	0
July 2040 . . . . .	49	14	1	0	0	0
July 2041 . . . . .	45	12	0	0	0	0
July 2042 . . . . .	41	10	0	0	0	0
July 2043 . . . . .	36	8	0	0	0	0
July 2044 . . . . .	32	7	0	0	0	0
July 2045 . . . . .	27	5	0	0	0	0
July 2046 . . . . .	22	4	0	0	0	0
July 2047 . . . . .	17	3	0	0	0	0
July 2048 . . . . .	12	2	0	0	0	0
July 2049 . . . . .	6	1	0	0	0	0
July 2050 . . . . .	0	0	0	0	0	0
Weighted Average Life (years) . . . .	18.3	10.5	4.8	3.1	2.2	1.7

**Security Group 11  
PSA Prepayment Assumption Rates**

Distribution Date	Classes IN and NT					Class NS					Class SN				
	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	94	90	87	85	98	94	89	85	81	98	94	90	86	82
July 2022	96	87	78	72	64	97	87	78	69	61	97	87	78	70	62
July 2023	94	80	67	58	48	95	80	67	55	45	95	80	67	56	46
July 2024	92	73	57	47	36	93	74	58	45	34	93	74	58	45	34
July 2025	90	67	49	37	26	91	68	50	36	25	91	68	49	36	25
July 2026	88	61	41	30	20	89	62	43	29	19	89	62	42	29	19
July 2027	86	56	35	24	15	87	57	37	23	14	86	57	36	23	14
July 2028	83	51	29	19	11	84	52	31	18	10	84	52	31	19	10
July 2029	81	46	24	15	8	82	48	27	15	8	81	47	26	15	8
July 2030	78	41	20	12	6	79	43	23	12	6	79	43	22	12	6
July 2031	75	37	16	10	4	77	39	19	9	4	76	39	18	9	4
July 2032	72	33	13	8	3	74	36	17	7	3	73	35	15	7	3
July 2033	69	29	11	6	2	71	32	14	6	2	70	31	13	6	2
July 2034	66	26	9	5	2	68	29	12	4	2	67	28	11	5	2
July 2035	62	22	7	4	1	64	26	10	3	1	64	25	9	4	1
July 2036	59	19	6	3	1	61	23	8	3	1	60	22	8	3	1
July 2037	55	16	5	2	1	57	20	7	2	1	56	19	6	2	1
July 2038	51	14	4	2	0	53	18	6	2	0	53	16	5	2	0
July 2039	46	11	3	1	0	49	16	5	1	0	48	14	4	1	0
July 2040	42	9	3	1	0	45	13	4	1	0	44	12	3	1	0
July 2041	37	7	2	1	0	41	11	3	1	0	40	10	3	1	0
July 2042	32	6	2	0	0	36	9	2	0	0	35	8	2	0	0
July 2043	27	5	1	0	0	31	8	2	0	0	30	7	2	0	0
July 2044	22	4	1	0	0	26	6	1	0	0	25	5	1	0	0
July 2045	16	3	1	0	0	21	5	1	0	0	19	4	1	0	0
July 2046	10	2	0	0	0	15	3	1	0	0	14	3	1	0	0
July 2047	6	1	0	0	0	9	2	0	0	0	8	2	0	0	0
July 2048	3	0	0	0	0	4	1	0	0	0	3	1	0	0	0
July 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	16.9	9.5	6.3	4.9	3.8	17.5	10.1	6.6	4.8	3.7	17.3	9.9	6.5	4.8	3.7

**Security Group 12  
PSA Prepayment Assumption Rates**

Distribution Date	Class MI					Classes MS and MT					Class SM				
	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	94	89	85	81	98	95	91	89	86	98	94	90	87	83
July 2022	97	87	78	69	61	96	88	80	73	66	96	87	79	71	63
July 2023	95	80	67	55	45	94	80	68	58	48	95	80	67	57	47
July 2024	93	74	58	45	34	92	73	57	46	35	93	74	58	45	34
July 2025	91	68	50	36	25	90	67	48	36	25	90	67	49	36	25
July 2026	89	62	43	29	19	88	61	41	28	18	88	62	42	28	18
July 2027	87	57	37	23	14	85	55	34	21	13	86	56	35	22	13
July 2028	84	52	31	18	10	83	50	28	16	9	83	51	30	17	10
July 2029	82	48	27	15	8	80	44	22	11	6	81	46	25	13	7
July 2030	79	43	23	12	6	77	40	18	8	4	78	42	21	10	5
July 2031	77	39	19	9	4	74	35	14	6	3	75	37	17	8	4
July 2032	74	36	17	7	3	71	31	10	5	2	72	33	14	6	3
July 2033	71	32	14	6	2	68	27	8	4	2	69	30	11	5	2
July 2034	68	29	12	4	2	64	23	6	3	1	66	26	9	4	1
July 2035	64	26	10	3	1	61	20	5	2	1	63	23	7	3	1
July 2036	61	23	8	3	1	57	16	4	2	1	59	20	6	2	1
July 2037	57	20	7	2	1	53	13	3	1	0	55	17	5	2	1
July 2038	53	18	6	2	0	49	10	2	1	0	51	14	4	1	0
July 2039	49	16	5	1	0	44	7	2	1	0	47	12	3	1	0
July 2040	45	13	4	1	0	40	5	2	1	0	43	10	3	1	0
July 2041	41	11	3	1	0	35	4	1	0	0	38	8	2	1	0
July 2042	36	9	2	0	0	30	4	1	0	0	33	7	2	0	0
July 2043	31	8	2	0	0	25	3	1	0	0	28	5	1	0	0
July 2044	26	6	1	0	0	19	2	1	0	0	23	4	1	0	0
July 2045	21	5	1	0	0	13	2	0	0	0	17	3	1	0	0
July 2046	15	3	1	0	0	7	1	0	0	0	12	2	0	0	0
July 2047	9	2	0	0	0	4	1	0	0	0	7	1	0	0	0
July 2048	4	1	0	0	0	2	0	0	0	0	3	0	0	0	0
July 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.5	10.1	6.6	4.8	3.7	16.5	9.1	6.0	4.6	3.7	17.0	9.7	6.3	4.7	3.7

**Security Group 13  
PSA Prepayment Assumption Rates**

Distribution Date	Class IM					Classes IQ and TN					Classes NI and TM					Classes QI and QT				
	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	92	86	80	74	96	89	82	75	68	97	91	85	79	74	93	80	67	54	41
July 2022	96	84	74	64	55	92	79	67	56	45	93	83	72	63	54	85	61	38	17	0
July 2023	93	77	64	51	41	88	70	54	40	28	90	75	61	50	39	77	43	13	0	0
July 2024	91	71	54	41	30	83	61	42	27	15	86	67	52	39	29	69	27	0	0	0
July 2025	88	65	46	33	22	78	52	32	17	6	82	60	43	31	21	60	11	0	0	0
July 2026	85	59	40	26	16	73	45	24	9	0	78	54	36	24	15	51	0	0	0	0
July 2027	82	53	34	21	12	68	37	17	3	0	74	48	30	18	11	42	0	0	0	0
July 2028	79	48	29	16	9	62	31	10	0	0	69	42	25	14	8	31	0	0	0	0
July 2029	76	44	24	13	6	57	24	5	0	0	65	37	20	11	5	21	0	0	0	0
July 2030	73	39	20	10	5	51	18	0	0	0	60	32	17	8	4	10	0	0	0	0
July 2031	69	35	17	8	3	44	13	0	0	0	55	28	13	6	3	0	0	0	0	0
July 2032	66	31	14	6	2	37	8	0	0	0	49	23	11	5	2	0	0	0	0	0
July 2033	62	28	12	5	2	30	3	0	0	0	43	19	8	3	1	0	0	0	0	0
July 2034	58	24	10	4	1	23	0	0	0	0	37	16	6	2	1	0	0	0	0	0
July 2035	53	21	8	3	1	15	0	0	0	0	31	12	5	2	1	0	0	0	0	0
July 2036	49	18	6	2	1	7	0	0	0	0	24	9	3	1	0	0	0	0	0	0
July 2037	44	15	5	2	0	0	0	0	0	0	18	6	2	1	0	0	0	0	0	0
July 2038	39	13	4	1	0	0	0	0	0	0	10	3	1	0	0	0	0	0	0	0
July 2039	34	11	3	1	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0
July 2040	29	8	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2041	23	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2042	17	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2043	11	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2044	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average																				
Life (years)	14.7	9.0	6.1	4.4	3.3	9.6	5.8	3.8	2.8	2.1	11.2	7.6	5.4	4.1	3.2	5.9	2.7	1.7	1.2	0.9

**PSA Prepayment Assumption Rates**

Distribution Date	Classes QS and TQ					Class SQ					Classes TW and WI				
	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	97	91	85	79	73	96	89	83	76	69	97	91	85	79	74
July 2022	93	82	72	63	54	93	80	67	56	46	94	83	73	63	54
July 2023	90	74	61	49	39	89	70	54	42	33	90	75	62	50	40
July 2024	86	67	51	39	29	85	62	44	32	23	87	68	52	39	29
July 2025	82	60	43	30	21	80	54	37	25	16	83	61	44	31	21
July 2026	77	53	36	24	15	76	47	30	19	11	79	55	37	24	15
July 2027	73	47	30	18	11	71	41	25	14	8	75	49	31	19	11
July 2028	68	42	25	14	8	66	36	20	10	6	71	43	25	14	8
July 2029	63	36	20	11	5	61	32	16	8	4	66	38	21	11	6
July 2030	58	31	16	8	4	55	27	12	6	3	61	33	17	8	4
July 2031	53	27	13	6	3	50	23	10	5	2	56	29	14	6	3
July 2032	47	22	10	4	2	45	20	8	4	1	51	24	11	5	2
July 2033	41	18	8	3	1	40	16	7	3	1	46	20	9	3	1
July 2034	35	15	6	2	1	35	13	5	2	1	40	17	7	2	1
July 2035	28	11	4	1	0	30	11	4	1	0	34	13	5	2	1
July 2036	22	8	3	1	0	24	9	3	1	0	28	10	4	1	0
July 2037	14	5	2	0	0	19	7	2	1	0	21	7	2	1	0
July 2038	7	2	1	0	0	14	5	1	0	0	14	5	1	0	0
July 2039	0	0	0	0	0	10	3	1	0	0	7	2	1	0	0
July 2040	0	0	0	0	0	8	2	1	0	0	0	0	0	0	0
July 2041	0	0	0	0	0	6	2	0	0	0	0	0	0	0	0
July 2042	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0
July 2043	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0
July 2044	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
July 2045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	10.9	7.4	5.4	4.0	3.1	11.1	7.0	4.8	3.5	2.7	11.5	7.7	5.5	4.1	3.2

**Security Group 14  
PSA Prepayment Assumption Rates**

Distribution Date	Class IW					Class SW					Class WS				
	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%	0%	100%	200%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	96	93	91	88	98	96	94	92	89	98	96	94	92	90
July 2022	96	89	82	75	68	97	90	84	77	71	97	90	84	78	72
July 2023	94	81	69	58	48	95	83	72	62	53	95	83	73	63	54
July 2024	92	74	58	44	33	93	76	62	49	39	93	77	63	50	40
July 2025	89	67	48	33	22	91	70	53	39	28	92	71	54	41	30
July 2026	87	60	39	24	15	89	64	45	31	21	90	65	47	33	22
July 2027	84	54	32	17	10	87	59	39	24	15	88	60	40	26	16
July 2028	82	48	25	10	6	85	54	33	19	11	85	55	34	21	12
July 2029	79	43	20	5	4	82	49	28	15	8	83	50	29	17	9
July 2030	76	37	15	2	2	80	44	23	11	6	81	46	25	13	7
July 2031	73	32	10	2	2	77	40	19	9	4	78	42	21	11	5
July 2032	69	28	6	1	1	74	36	16	7	3	76	38	18	8	4
July 2033	66	24	3	1	1	71	32	13	5	2	73	34	15	7	3
July 2034	62	19	1	0	0	68	29	11	4	2	70	31	13	5	2
July 2035	58	16	0	0	0	65	26	9	3	1	67	28	11	4	1
July 2036	55	12	0	0	0	62	22	7	3	1	64	25	9	3	1
July 2037	50	9	0	0	0	58	20	6	2	1	60	22	8	2	1
July 2038	46	5	0	0	0	55	17	5	2	0	57	20	6	2	1
July 2039	41	2	0	0	0	51	14	4	1	0	53	17	5	1	0
July 2040	37	1	0	0	0	47	12	3	1	0	49	15	4	1	0
July 2041	32	0	0	0	0	42	10	3	1	0	45	13	3	1	0
July 2042	26	0	0	0	0	38	9	2	1	0	41	11	3	1	0
July 2043	21	0	0	0	0	33	7	2	0	0	36	9	2	0	0
July 2044	15	0	0	0	0	28	6	1	0	0	31	7	2	0	0
July 2045	9	0	0	0	0	23	5	1	0	0	26	6	1	0	0
July 2046	3	0	0	0	0	17	4	1	0	0	21	4	1	0	0
July 2047	0	0	0	0	0	12	2	0	0	0	15	3	1	0	0
July 2048	0	0	0	0	0	8	1	0	0	0	10	2	0	0	0
July 2049	0	0	0	0	0	3	0	0	0	0	3	1	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	15.9	8.5	5.5	4.2	3.5	17.8	10.3	6.9	5.1	4.1	18.3	10.7	7.2	5.3	4.2

**Security Group 15  
PSA Prepayment Assumption Rates**

Distribution Date	Classes KF, KL, KS, KT and SK				
	0%	100%	150%	300%	400%
Initial Percent	100	100	100	100	100
July 2021	98	97	96	94	92
July 2022	97	91	88	81	76
July 2023	95	84	79	65	57
July 2024	93	77	70	52	42
July 2025	91	71	62	42	31
July 2026	89	65	55	33	23
July 2027	87	59	49	27	17
July 2028	85	54	43	21	13
July 2029	83	49	38	17	9
July 2030	80	45	33	13	7
July 2031	78	40	29	11	5
July 2032	75	37	26	8	4
July 2033	72	33	22	7	3
July 2034	69	30	20	5	2
July 2035	66	26	17	4	1
July 2036	63	24	15	3	1
July 2037	60	21	13	2	1
July 2038	56	18	11	2	1
July 2039	53	16	9	1	0
July 2040	49	14	8	1	0
July 2041	45	12	6	1	0
July 2042	41	10	5	1	0
July 2043	36	9	4	0	0
July 2044	32	7	3	0	0
July 2045	27	6	3	0	0
July 2046	22	4	2	0	0
July 2047	17	3	1	0	0
July 2048	12	2	1	0	0
July 2049	6	1	0	0	0
July 2050	0	0	0	0	0
Weighted Average Life (years)	18.3	10.5	8.6	5.4	4.4

**Security Group 16  
PSA Prepayment Assumption Rates**

Distribution Date	Classes LC and LI				
	0%	100%	150%	300%	400%
Initial Percent	100	100	100	100	100
July 2021	99	96	95	92	90
July 2022	97	90	87	78	72
July 2023	95	83	78	63	54
July 2024	94	76	69	50	40
July 2025	92	70	61	40	30
July 2026	90	64	54	32	22
July 2027	88	59	48	26	16
July 2028	86	54	43	21	12
July 2029	84	49	38	16	9
July 2030	81	45	33	13	7
July 2031	79	40	29	10	5
July 2032	76	37	26	8	4
July 2033	74	33	22	6	3
July 2034	71	30	19	5	2
July 2035	68	27	17	4	1
July 2036	65	24	15	3	1
July 2037	61	21	12	2	1
July 2038	58	19	11	2	0
July 2039	54	16	9	1	0
July 2040	51	14	8	1	0
July 2041	47	12	6	1	0
July 2042	42	10	5	1	0
July 2043	38	9	4	0	0
July 2044	33	7	3	0	0
July 2045	28	5	3	0	0
July 2046	23	4	2	0	0
July 2047	18	3	1	0	0
July 2048	12	2	1	0	0
July 2049	6	1	0	0	0
July 2050	0	0	0	0	0
Weighted Average Life (years)	18.6	10.5	8.5	5.3	4.2

## Yield Considerations

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

- the anticipated yield of that Class resulting from its purchase price,
- the investor's own projection of Mortgage Loan prepayment rates under a variety of scenarios,
- in the case of the Group 2 through 8 and 11 through 14 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 or an Inverse Floating Rate Class, the investor's own projection of levels of LIBOR under a variety of scenarios.

**No representation is made regarding Mortgage Loan prepayment rates, Underlying Certificate payment rates, LIBOR 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.

*LIBOR: Effect on Yields of the Floating Rate and Inverse Floating Rate Classes*

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

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

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

**Yield Tables**

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

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

The yields were calculated by

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

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

The information set forth in the following tables was prepared on the basis of the Modeling Assumptions and the assumptions that (1) the Interest Rate applicable to each Inverse Floating Rate Class for each Accrual Period following the first Accrual Period will be based on the indicated level of LIBOR and (2) the purchase price of each Class (expressed as a percentage of its 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 AI to Prepayments Assumed Price 10.375%\*

PSA Prepayment Assumption Rates					
100%	400%	595%	700%	1,050%	1,400%
27.7%	11.3%	0.0%	(6.2)%	(28.2)%	(51.9)%

### Sensitivity of Class SA to Prepayments Assumed Price 16.625%\*

LIBOR	PSA Prepayment Assumption Rates				
	100%	400%	700%	1,050%	1,400%
0.10% . . . . .	31.5%	15.3%	(2.0)%	(23.6)%	(46.9)%
0.19% . . . . .	30.9%	14.6%	(2.7)%	(24.3)%	(47.7)%
3.17% . . . . .	10.3%	(7.0)%	(25.7)%	(49.9)%	(76.8)%
6.15% and above . . . .	**	**	**	**	**

## SECURITY GROUP 2

### Sensitivity of Class BI to Prepayments Assumed Price 8.4375%\*

PSA Prepayment Assumption Rates					
100%	350%	458%	582%	900%	1,200%
45.1%	15.2%	0.1%	(18.3)%	(69.4)%	**

## SECURITY GROUP 3

### Sensitivity of Class CI to Prepayments Assumed Price 3.0625%\*

LIBOR	PSA Prepayment Assumption Rates				
	100%	350%	582%	900%	1,200%
6.10% and below . . . .	25.5%	7.2%	(11.5)%	(40.8)%	(74.9)%
6.15% . . . . .	7.4%	(9.6)%	(27.0)%	(54.3)%	(86.7)%
6.20% and above . . . .	**	**	**	**	**

### Sensitivity of Class CS to Prepayments Assumed Price 16.25%\*

LIBOR	PSA Prepayment Assumption Rates				
	100%	350%	582%	900%	1,200%
0.10000% . . . . .	30.8%	13.1%	(4.9)%	(32.7)%	(64.3)%
0.18675% . . . . .	30.2%	12.5%	(5.4)%	(33.2)%	(64.8)%
3.14338% . . . . .	9.9%	(6.8)%	(23.7)%	(50.1)%	(80.6)%
6.10000% 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 DS to Prepayments  
Assumed Price 7.0%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>484%</u>	<u>750%</u>	<u>1,000%</u>
0.10000% .....	44.3%	30.7%	17.4%	(3.5)%	(25.4)%
0.18675% .....	42.8%	29.2%	16.0%	(4.8)%	(26.7)%
1.81838% .....	16.3%	3.3%	(9.5)%	(29.7)%	(51.1)%
3.45000% and above ...	**	**	**	**	**

**SECURITY GROUP 5**

**Sensitivity of Class ES to Prepayments  
Assumed Price 13.25%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>				
	<u>100%</u>	<u>300%</u>	<u>484%</u>	<u>750%</u>	<u>1,000%</u>
0.10000% .....	40.8%	27.2%	14.0%	(6.8)%	(28.6)%
0.18675% .....	40.0%	26.5%	13.3%	(7.5)%	(29.3)%
3.11838% .....	14.9%	1.9%	(10.8)%	(30.9)%	(52.4)%
6.05000% and above .....	**	**	**	**	**

**SECURITY GROUP 6**

**Sensitivity of Class GS to Prepayments  
Assumed Price 18.25%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>293%</u>	<u>450%</u>	<u>600%</u>
0.10000% .....	25.5%	11.4%	(0.8)%	(13.3)%
0.18675% .....	25.0%	10.9%	(1.3)%	(13.7)%
3.19338% .....	6.5%	(6.5)%	(17.8)%	(29.3)%
6.20000% and above .....	**	**	**	**

**SECURITY GROUP 7**

**Sensitivity of Class HI to Prepayments  
Assumed Price 12.5625%\***

<u>PSA Prepayment Assumption Rates</u>					
<u>100%</u>	<u>350%</u>	<u>475%</u>	<u>540%</u>	<u>750%</u>	<u>1,000%</u>
33.1%	14.1%	5.6%	0.1%	(19.4)%	(46.0)%

**SECURITY GROUP 8**

**Sensitivity of Class PI to Prepayments  
Assumed Price 11.6875%\***

<u>PSA Prepayment Assumption Rates</u>				
<u>175%</u>	<u>250%</u>	<u>285%</u>	<u>489%</u>	<u>500%</u>
13.4%	13.4%	13.4%	0.0%	(0.8)%

\* 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 9**

**Sensitivity of Class DI to Prepayments  
Assumed Price 11.9375%\***

<b>PSA Prepayment Assumption Rates</b>					
<b>100%</b>	<b>350%</b>	<b>434%</b>	<b>625%</b>	<b>950%</b>	<b>1,300%</b>
18.1%	4.7%	0.1%	(10.8)%	(30.4)%	(52.6)%

**SECURITY GROUP 10**

**Sensitivity of Class GI to Prepayments  
Assumed Price 12.375%\***

<b>PSA Prepayment Assumption Rates</b>					
<b>100%</b>	<b>350%</b>	<b>434%</b>	<b>625%</b>	<b>950%</b>	<b>1,300%</b>
17.3%	4.5%	0.0%	(10.3)%	(28.5)%	(48.7)%

**SECURITY GROUP 11**

**Sensitivity of Class IN to Prepayments  
Assumed Price 15.0%\***

<b>LIBOR</b>	<b>PSA Prepayment Assumption Rates</b>			
	<b>100%</b>	<b>200%</b>	<b>300%</b>	<b>400%</b>
0.10000% .....	34.0%	27.2%	22.1%	15.4%
0.18675% .....	33.4%	26.5%	21.5%	14.7%
3.11838% .....	11.1%	4.4%	(0.5)%	(7.2)%
6.05000% and above .....	**	**	**	**

**Sensitivity of Class NS to Prepayments  
Assumed Price 15.0%\***

<b>LIBOR</b>	<b>PSA Prepayment Assumption Rates</b>			
	<b>100%</b>	<b>200%</b>	<b>300%</b>	<b>400%</b>
0.10000% .....	34.3%	27.5%	20.6%	13.5%
0.18675% .....	33.6%	26.9%	20.0%	12.8%
3.11838% .....	11.7%	5.3%	(1.4)%	(8.2)%
6.05000% and above .....	**	**	**	**

**Sensitivity of Class NT to Prepayments  
Assumed Price 0.125%\***

<b>LIBOR</b>	<b>PSA Prepayment Assumption Rates</b>			
	<b>100%</b>	<b>200%</b>	<b>300%</b>	<b>400%</b>
6.050% and below .....	34.5%	27.6%	22.5%	15.8%
6.075% .....	11.7%	4.9%	0.0%	(6.7)%
6.100% 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 SN to Prepayments**  
**Assumed Price 15.75%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	32.0%	25.3%	19.0%	12.0%
0.18675% .....	31.4%	24.6%	18.3%	11.4%
3.11838% .....	10.4%	3.9%	(2.1)%	(8.9)%
6.05000% and above .....	**	**	**	**

**SECURITY GROUP 12**

**Sensitivity of Class MI to Prepayments**  
**Assumed Price 15.0%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	34.3%	27.5%	20.6%	13.5%
0.18675% .....	33.6%	26.9%	20.0%	12.8%
3.11838% .....	11.7%	5.3%	(1.4)%	(8.2)%
6.05000% and above .....	**	**	**	**

**Sensitivity of Class MS to Prepayments**  
**Assumed Price 15.625%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	32.2%	25.5%	19.7%	13.2%
0.18675% .....	31.6%	24.8%	19.0%	12.6%
3.11838% .....	9.9%	2.7%	(3.1)%	(9.4)%
6.05000% and above .....	**	**	**	**

**Sensitivity of Class MT to Prepayments**  
**Assumed Price 0.125%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
6.050% and below .....	34.5%	27.8%	22.0%	15.6%
6.075% .....	11.4%	4.2%	(1.6)%	(8.0)%
6.100% 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 SM to Prepayments**  
**Assumed Price 16.09375%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	31.0%	24.3%	17.9%	11.1%
0.18675% .....	30.4%	23.7%	17.3%	10.5%
3.11838% .....	9.7%	3.0%	(3.2)%	(9.9)%
6.05000% and above .....	**	**	**	**

**SECURITY GROUP 13**

**Sensitivity of Class IM to Prepayments**  
**Assumed Price 16.1875%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	27.0%	19.8%	12.3%	4.5%
0.18675% .....	26.4%	19.2%	11.7%	4.0%
2.93838% .....	7.4%	0.7%	(6.2)%	(13.3)%
5.69000% and above .....	**	**	**	**

**Sensitivity of Class IQ to Prepayments**  
**Assumed Price 12.625%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	33.3%	22.5%	10.0%	(4.1)%
0.18675% .....	32.5%	21.7%	9.2%	(5.0)%
2.93838% .....	6.4%	(5.3)%	(19.2)%	(34.7)%
5.69000% and above .....	**	**	**	**

**Sensitivity of Class NI to Prepayments**  
**Assumed Price 16.5625%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	24.4%	17.3%	9.9%	2.2%
0.18675% .....	23.8%	16.7%	9.3%	1.7%
2.93838% .....	4.6%	(2.0)%	(8.8)%	(15.8)%
5.69000% 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 QI to Prepayments**  
**Assumed Price 5.25%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	95.3%	64.1%	28.2%	(9.6)%
0.18675% .....	93.1%	61.9%	26.0%	(11.7)%
2.93838% .....	23.4%	(9.0)%	(43.8)%	(77.4)%
5.69000% and above .....	**	**	**	**

**Sensitivity of Class QS to Prepayments**  
**Assumed Price 16.875%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	23.5%	16.4%	9.0%	1.4%
0.18675% .....	22.9%	15.8%	8.5%	0.8%
2.93838% .....	3.9%	(2.6)%	(9.4)%	(16.4)%
5.69000% and above .....	**	**	**	**

**Sensitivity of Class QT to Prepayments**  
**Assumed Price 0.9375%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
5.690% and below .....	97.3%	66.0%	30.1%	(7.8)%
6.195% .....	25.5%	(6.8)%	(41.7)%	(75.4)%
6.700% and above .....	**	**	**	**

**Sensitivity of Class SQ to Prepayments**  
**Assumed Price 14.4375%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	28.0%	19.3%	10.6%	1.9%
0.18675% .....	27.3%	18.6%	10.0%	1.3%
2.93838% .....	5.9%	(1.6)%	(9.2)%	(16.7)%
5.69000% and above .....	**	**	**	**

**Sensitivity of Class TM to Prepayments**  
**Assumed Price 2.875%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
5.690% and below .....	22.0%	14.9%	7.6%	0.0%
6.145% .....	3.6%	(3.0)%	(9.7)%	(16.7)%
6.600% 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 TN to Prepayments**  
**Assumed Price 1.0625%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
5.69% and below . . . . .	32.1%	21.3%	8.8%	(5.4)%
5.92% . . . . .	6.2%	(5.6)%	(19.5)%	(35.0)%
6.15% and above . . . . .	**	**	**	**

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

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
5.690% and below . . . . .	21.1%	14.0%	6.7%	(0.8)%
5.845% . . . . .	2.9%	(3.6)%	(10.4)%	(17.4)%
6.000% and above . . . . .	**	**	**	**

**Sensitivity of Class TW to Prepayments**  
**Assumed Price 1.875%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
5.69% and below . . . . .	20.2%	13.2%	5.9%	(1.6)%
5.97% . . . . .	2.8%	(3.7)%	(10.5)%	(17.5)%
6.25% and above . . . . .	**	**	**	**

**Sensitivity of Class WI to Prepayments**  
**Assumed Price 17.5625%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% . . . . .	22.4%	15.3%	8.0%	0.4%
0.18675% . . . . .	21.9%	14.8%	7.5%	(0.1)%
2.93838% . . . . .	3.7%	(2.8)%	(9.6)%	(16.6)%
5.69000% and above . . . . .	**	**	**	**

**SECURITY GROUP 14**

**Sensitivity of Class IW to Prepayments**  
**Assumed Price 16.625%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% . . . . .	29.9%	23.2%	16.0%	9.8%
0.18675% . . . . .	29.3%	22.5%	15.3%	9.2%
3.14338% . . . . .	8.1%	(0.2)%	(8.5)%	(13.6)%
6.10000% 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 SW to Prepayments**  
**Assumed Price 16.25%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	32.2%	26.5%	20.8%	15.1%
0.18675% .....	31.5%	25.9%	20.1%	14.4%
3.14338% .....	10.6%	4.6%	(1.5)%	(7.4)%
6.10000% and above .....	**	**	**	**

**Sensitivity of Class WS to Prepayments**  
**Assumed Price 16.125%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>200%</u>	<u>300%</u>	<u>400%</u>
0.10000% .....	32.8%	27.4%	21.9%	16.3%
0.18675% .....	32.1%	26.7%	21.2%	15.6%
3.14338% .....	11.1%	5.5%	(0.3)%	(6.3)%
6.10000% and above .....	**	**	**	**

**SECURITY GROUP 15**

**Sensitivity of Class KS to Prepayments**  
**Assumed Price 26.0%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>150%</u>	<u>300%</u>	<u>400%</u>
0.10% .....	16.5%	13.9%	5.9%	0.5%
0.19% .....	16.1%	13.5%	5.5%	0.1%
3.17% .....	2.6%	(0.1)%	(8.6)%	(14.4)%
6.15% and above .....	**	**	**	**

**Sensitivity of Class KT to Prepayments**  
**Assumed Price 5.125%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>150%</u>	<u>300%</u>	<u>400%</u>
5.000% and below .....	15.5%	12.9%	4.9%	(0.5)%
5.575% .....	2.3%	(0.4)%	(8.9)%	(14.7)%
6.150% 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 SK to Prepayments**  
**Assumed Price 20.125%\***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>100%</u>	<u>150%</u>	<u>300%</u>	<u>400%</u>
0.100% .....	17.7%	15.1%	7.2%	1.9%
0.190% .....	17.2%	14.6%	6.7%	1.3%
2.595% .....	3.2%	0.5%	(7.9)%	(13.7)%
5.000% and above .....	**	**	**	**

**SECURITY GROUP 16**

**Sensitivity of Class LI to Prepayments**  
**Assumed Price 11.21875%\***

<u>PSA Prepayment Assumption Rates</u>				
<u>100%</u>	<u>150%</u>	<u>300%</u>	<u>400%</u>	<u>543%</u>
24.9%	22.2%	14.0%	8.3%	0.0%

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

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

**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 Orrick, Herrington & Sutcliffe 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 is 700% PSA in the case of the Group 1 Securities, 582% PSA in the case of the

Group 2 and 3 Securities, 484% PSA in the case of the Group 4 and 5 Securities, 293% PSA in the case of the Group 6 Securities, 475% PSA in the case of the Group 7 Securities, 250% PSA in the case of the Group 8 Securities, 625% PSA in the case of the Group 9 and 10 Securities, 200% PSA in the case of the Group 11, 12, 13 and 14 Securities and 150% PSA in the case of the Group 15 and 16 Securities (as described in “Yield, Maturity and Prepayment Considerations” in this Supplement). In the case of the Floating Rate and Inverse 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 LIBOR 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, *i.e.*, the Class RR 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. Fiduciaries of any such Plans should consult with their counsel before purchasing any of the Securities.

**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. Fiduciaries of any such plans 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) July 1, 2020 on the Fixed Rate Classes and (2) July 20, 2020 on the Floating Rate and Inverse Floating Rate Classes. The Sponsor may effect these transactions by sales to or through certain securities dealers. These dealers may receive compensation in the form of discounts, concessions or commissions from the Sponsor and/or commissions from any purchasers for which they act as agents. Some of the Securities may be sold through dealers in relatively small sales. In the usual case, the commission charged on a relatively small sale of securities will be a higher percentage of the sales price than that charged on a large sale of securities.

#### **INCREASE IN SIZE**

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

#### **LEGAL MATTERS**

Certain legal matters will be passed upon for Ginnie Mae by Hunton Andrews Kurth LLP, for the Trust by Orrick, Herrington & Sutcliffe LLP, New York, New York and Marcell Solomon & Associates P.C. and for the Trustee by Nixon Peabody 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)
<b>Security Group 1</b> Combination 1(5) AG	\$125,292,790	AB	\$125,292,790	PT	1.00%	FIX	38382GQ54	July 2050
		AC	125,292,790	PT	1.25	FIX	38382GQ62	July 2050
		AD	125,292,790	PT	1.50	FIX	38382GQ70	July 2050
		AE	125,292,790	PT	1.75	FIX	38382GQ88	July 2050
		AI	35,797,940	NTL(PT)	3.50	FIX/IO	38382GQ96	July 2050
<b>Security Group 7</b> Combination 2 HB HC	\$ 49,516,000	HA	\$ 58,267,511	SC/PT/TAC/AD	1.00%	FIX	38382GR20	April 2049
	8,751,511							
<b>Security Group 8</b> Combination 3(5) PH	\$ 25,253,000	PA	\$ 25,253,000	SC/PAC/AD	1.00%	FIX	38382GR38	February 2049
		PB	25,253,000	SC/PAC/AD	1.25	FIX	38382GR46	February 2049
		PC	25,253,000	SC/PAC/AD	1.50	FIX	38382GR53	February 2049
		PD	25,253,000	SC/PAC/AD	1.75	FIX	38382GR61	February 2049
		PE	25,253,000	SC/PAC/AD	2.00	FIX	38382GR79	February 2049
	PG	25,253,000	SC/PAC/AD	2.25	FIX	38382GR87	February 2049	
	PI	10,822,714	NTL(SC/PAC/AD)	3.50	FIX/IO	38382GR95	February 2049	

REMIC Securities

MX Securities

Class	REMIC Securities		MX Securities						Final Distribution Date(4)
	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		
<b>Security Group 9</b>									
Combination 4(5)									
D	\$241,777,743	DB	\$241,777,743	PT	1.00%	FIX	38382GS29	July 2050	
		DC	241,777,743	PT	1.25	FIX	38382GS37	July 2050	
		DE	241,777,743	PT	1.50	FIX	38382GS45	July 2050	
		DH	241,777,743	PT	1.75	FIX	38382GS52	July 2050	
		DI	161,185,162	NTL(PT)	3.00	FIX/IO	38382GS60	July 2050	
		DJ	241,777,743	PT	2.00	FIX	38382GS78	July 2050	
		DK	241,777,743	PT	2.25	FIX	38382GS86	July 2050	
		DL	241,777,743	PT	2.50	FIX	38382GS94	July 2050	
		DM	241,777,743	PT	2.75	FIX	38382GT28	July 2050	
<b>Security Group 10</b>									
Combination 5(5)									
G	\$ 56,809,474	GC	\$ 56,809,474	PT	1.00%	FIX	38382GT36	July 2050	
		GD	56,809,474	PT	1.25	FIX	38382GT44	July 2050	
		GE	56,809,474	PT	1.50	FIX	38382GT51	July 2050	
		GH	56,809,474	PT	1.75	FIX	38382GT69	July 2050	
		GI	37,872,982	NTL(PT)	3.00	FIX/IO	38382GT77	July 2050	
		GJ	56,809,474	PT	2.00	FIX	38382GT85	July 2050	
		GK	56,809,474	PT	2.25	FIX	38382GT93	July 2050	
		GL	56,809,474	PT	2.50	FIX	38382GU26	July 2050	
		GM	56,809,474	PT	2.75	FIX	38382GU34	July 2050	
<b>Security Groups 9 and 10</b>									
Combination 6(6)									
DE(7)	\$241,777,743	CE	\$298,587,217	PT	1.50%	FIX	38382GU42	July 2050	
GE(7)	56,809,474								
<b>Security Group 11</b>									
Combination 7									
IN	\$ 6,614,208	SN	\$ 20,404,133	NTL(SC/PT)	(8)	INV/IO	38382GU59	September 2049	
NS	13,789,925								

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)
<b>Security Group 12</b>								
Combination 8								
MI	\$ 18,431,219	SM	\$ 34,407,514	NTL(SC/PT)	(8)	INV/IO	38382GU67	May 2050
MS	15,976,295							
<b>Security Group 13</b>								
Combination 9								
IM	\$ 5,737,292	SQ	\$ 21,923,974	NTL(SC/PT)	(8)	INV/IO	38382GU75	October 2045
IQ	4,100,552							
NI	5,454,963							
QI	2,746,793							
QS	2,673,135							
WI	1,211,239							
<b>Security Group 14</b>								
Combination 10								
IW	\$ 8,931,358	SW	\$ 46,970,221	NTL(SC/PT)	(8)	INV/IO	38382GU83	May 2050
WS	38,038,863							
<b>Security Group 15</b>								
Combination 11								
KT	\$ 52,857,142	KS	\$ 52,857,142	NTL(PT)	(8)	INV/IO	38382GU91	July 2050
SK	52,857,142							

(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) In the case of Combinations 1, 3, 4 and 5, various subcombinations are permitted. See "Description of the Securities — Modification and Exchange" in the Base Offering Circular for a discussion of subcombinations.

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

(7) MX Class.

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



## SCHEDULED PRINCIPAL BALANCES

<u>Distribution Date</u>	<u>Classes HB and ZH (in the aggregate)</u>	<u>Class PH</u>
Initial Balance .....	\$49,764,000.00	\$25,253,000.00
August 2020 .....	49,062,736.89	25,077,605.47
September 2020 .....	48,345,001.41	24,910,984.10
October 2020 .....	47,611,444.88	24,753,431.92
November 2020 .....	46,862,756.00	24,588,666.71
December 2020 .....	46,099,795.84	24,416,768.71
January 2021 .....	45,323,884.62	24,237,822.68
February 2021 .....	44,536,660.05	24,051,917.79
March 2021 .....	43,740,300.10	23,859,147.57
April 2021 .....	42,935,852.26	23,659,609.84
May 2021 .....	42,123,996.41	23,453,406.57
June 2021 .....	41,305,702.24	23,240,643.89
July 2021 .....	40,482,028.62	23,021,431.91
August 2021 .....	39,653,902.18	22,795,884.64
September 2021 .....	38,822,445.95	22,564,119.95
October 2021 .....	37,994,065.57	22,326,259.38
November 2021 .....	37,182,541.29	22,082,428.09
December 2021 .....	36,387,533.22	21,832,754.72
January 2022 .....	35,608,708.25	21,577,371.28
February 2022 .....	34,845,739.93	21,316,413.03
March 2022 .....	34,098,308.31	21,050,018.36
April 2022 .....	33,366,099.85	20,785,421.69
May 2022 .....	32,648,807.29	20,522,610.98
June 2022 .....	31,946,129.49	20,261,574.29
July 2022 .....	31,257,771.34	20,002,299.74
August 2022 .....	30,583,443.62	19,744,775.52
September 2022 .....	29,922,862.91	19,488,989.92
October 2022 .....	29,275,751.45	19,234,931.29
November 2022 .....	28,641,837.04	18,982,588.06
December 2022 .....	28,020,852.91	18,731,948.73
January 2023 .....	27,412,537.65	18,483,001.88
February 2023 .....	26,816,635.07	18,235,736.17
March 2023 .....	26,232,894.10	17,990,140.30
April 2023 .....	25,661,068.70	17,746,203.10
May 2023 .....	25,100,917.78	17,503,913.42
June 2023 .....	24,552,205.03	17,263,260.20
July 2023 .....	24,014,698.92	17,024,232.47
August 2023 .....	23,488,172.52	16,786,819.30
September 2023 .....	22,972,403.46	16,551,009.85
October 2023 .....	22,467,173.84	16,316,793.35
November 2023 .....	21,972,270.11	16,084,159.09
December 2023 .....	21,487,482.99	15,853,096.44
January 2024 .....	21,012,607.41	15,623,594.83
February 2024 .....	20,547,442.42	15,395,643.76
March 2024 .....	20,091,791.07	15,169,232.80

<u>Distribution Date</u>	<u>Classes HB and ZH (in the aggregate)</u>	<u>Class PH</u>
April 2024	\$19,645,460.38	\$14,944,351.59
May 2024	19,208,261.23	14,720,989.83
June 2024	18,780,008.32	14,499,137.29
July 2024	18,360,520.02	14,278,783.81
August 2024	17,949,618.39	14,059,919.30
September 2024	17,547,129.03	13,842,533.71
October 2024	17,152,881.06	13,626,617.08
November 2024	16,766,707.02	13,412,159.52
December 2024	16,388,442.81	13,199,151.18
January 2025	16,017,927.63	12,987,582.28
February 2025	15,655,003.92	12,777,443.12
March 2025	15,299,517.26	12,568,724.05
April 2025	14,951,316.35	12,361,415.47
May 2025	14,610,252.93	12,155,507.87
June 2025	14,276,181.71	11,950,991.78
July 2025	13,948,960.33	11,747,857.80
August 2025	13,628,449.29	11,546,096.59
September 2025	13,314,511.89	11,345,698.87
October 2025	13,007,014.19	11,146,655.42
November 2025	12,705,824.92	10,948,957.08
December 2025	12,410,815.48	10,752,594.74
January 2026	12,121,859.84	10,557,559.38
February 2026	11,838,834.51	10,363,841.99
March 2026	11,561,618.49	10,171,433.66
April 2026	11,290,093.21	9,980,325.52
May 2026	11,024,142.48	9,790,508.75
June 2026	10,763,652.48	9,601,974.62
July 2026	10,508,511.64	9,414,714.41
August 2026	10,258,610.67	9,228,719.48
September 2026	10,013,842.47	9,043,981.26
October 2026	9,774,102.09	8,860,491.22
November 2026	9,539,286.72	8,678,240.87
December 2026	9,309,295.60	8,497,221.81
January 2027	9,084,030.01	8,317,425.67
February 2027	8,863,393.22	8,138,844.13
March 2027	8,647,290.45	7,961,468.95
April 2027	8,435,628.84	7,785,291.91
May 2027	8,228,317.38	7,611,217.41
June 2027	8,025,266.93	7,440,108.54
July 2027	7,826,390.12	7,271,916.07
August 2027	7,631,601.37	7,106,591.59
September 2027	7,440,816.80	6,944,087.47
October 2027	7,253,954.26	6,784,356.86
November 2027	7,070,933.21	6,627,353.67
December 2027	6,891,674.80	6,473,032.57
January 2028	6,716,101.71	6,321,348.96
February 2028	6,544,138.22	6,172,258.98
March 2028	6,375,710.14	6,025,719.48

<u>Distribution Date</u>	<u>Classes HB and ZH (in the aggregate)</u>	<u>Class PH</u>
April 2028	\$ 6,210,744.77	\$ 5,881,688.01
May 2028	6,049,170.89	5,740,122.81
June 2028	5,890,918.70	5,600,982.82
July 2028	5,735,919.83	5,464,227.64
August 2028	5,584,107.30	5,329,817.54
September 2028	5,435,415.46	5,197,713.41
October 2028	5,289,780.02	5,067,876.81
November 2028	5,147,137.97	4,940,269.93
December 2028	5,007,427.59	4,814,855.55
January 2029	4,870,588.39	4,691,597.09
February 2029	4,736,561.13	4,570,458.55
March 2029	4,605,287.75	4,451,404.52
April 2029	4,476,711.38	4,334,400.19
May 2029	4,350,776.30	4,219,411.29
June 2029	4,227,427.92	4,106,404.13
July 2029	4,106,612.75	3,995,345.57
August 2029	3,988,278.41	3,886,203.01
September 2029	3,872,373.54	3,778,944.39
October 2029	3,758,847.86	3,673,538.17
November 2029	3,647,652.10	3,569,953.33
December 2029	3,538,737.98	3,468,159.35
January 2030	3,432,058.22	3,368,126.22
February 2030	3,327,566.47	3,269,824.44
March 2030	3,225,217.36	3,173,224.95
April 2030	3,124,966.42	3,078,299.21
May 2030	3,026,770.08	2,985,019.12
June 2030	2,930,585.66	2,893,357.06
July 2030	2,836,371.36	2,803,285.85
August 2030	2,744,086.21	2,714,778.78
September 2030	2,653,690.10	2,627,809.55
October 2030	2,565,143.71	2,542,352.30
November 2030	2,478,408.54	2,458,381.61
December 2030	2,393,446.85	2,375,872.47
January 2031	2,310,221.70	2,294,800.28
February 2031	2,228,696.87	2,215,140.84
March 2031	2,148,836.92	2,136,870.36
April 2031	2,070,607.08	2,059,965.44
May 2031	1,993,973.32	1,984,403.05
June 2031	1,918,902.32	1,910,160.55
July 2031	1,845,361.39	1,837,215.69
August 2031	1,773,318.56	1,765,546.55
September 2031	1,702,742.47	1,695,131.61
October 2031	1,633,602.43	1,625,949.68
November 2031	1,565,868.36	1,557,979.93
December 2031	1,499,510.80	1,491,201.87
January 2032	1,434,500.88	1,425,595.35
February 2032	1,370,810.35	1,361,140.55
March 2032	1,308,411.51	1,297,817.98

<u>Distribution Date</u>	<u>Classes HB and ZH (in the aggregate)</u>	<u>Class PH</u>
April 2032 . . . . .	\$ 1,247,277.22	\$ 1,235,608.46
May 2032 . . . . .	1,187,380.93	1,174,493.16
June 2032 . . . . .	1,128,696.60	1,114,453.53
July 2032 . . . . .	1,071,198.73	1,055,471.33
August 2032 . . . . .	1,014,862.36	997,528.63
September 2032 . . . . .	959,663.02	940,607.81
October 2032 . . . . .	905,576.74	884,691.51
November 2032 . . . . .	852,580.07	829,762.67
December 2032 . . . . .	800,649.99	775,804.53
January 2033 . . . . .	749,764.01	722,800.59
February 2033 . . . . .	699,900.05	670,734.63
March 2033 . . . . .	651,036.52	619,590.68
April 2033 . . . . .	603,152.24	569,353.07
May 2033 . . . . .	556,226.50	520,006.37
June 2033 . . . . .	510,238.98	471,535.39
July 2033 . . . . .	465,169.81	423,925.22
August 2033 . . . . .	420,999.50	377,161.19
September 2033 . . . . .	377,708.97	331,228.86
October 2033 . . . . .	335,279.54	286,114.05
November 2033 . . . . .	293,692.91	241,802.80
December 2033 . . . . .	252,931.14	198,281.38
January 2034 . . . . .	212,976.68	155,536.31
February 2034 . . . . .	173,812.34	113,554.30
March 2034 . . . . .	135,421.26	72,322.32
April 2034 . . . . .	97,786.96	31,827.54
May 2034 . . . . .	60,893.27	0.00
June 2034 . . . . .	24,724.37	0.00
July 2034 and thereafter . . . . .	0.00	0.00

Underlying Certificates

Trust Asset Group or Subgroup	Issuer	Series	Class	Issue Date	CUSIP Number	Interest Rate	Interest Type(1)	Final Distribution Date	Principal Type(4)	Original Principal or Notional Balance of Class	Underlying Certificate Factor(2)	Principal or Notional Balance in Trust	Percentage of Class in Trust	Ginnie Mae I or II
2	Ginnie Mae	2018-153	W1(3/5)	November 30, 2018	38381IAZ41	4.5%	FIX/O	November 2045	N1L(PAC/AD)	\$ 22,222,222	0.73997577	\$13,977,320	85.00000135000%	II
2	Ginnie Mae	2019-100	L1(3/5)(6)	August 30, 2019	38381XN98	4.5	FIX/O	December 2047	N1L(SC/PT)	13,593,120	0.86625409	9,684,765	82.2478650965	II
3A	Ginnie Mae	2018-092	SH(5)	July 30, 2018	38380XTA57	(4)	INV/O	July 2048	N1L(PT)	110,769,333	0.66578250	33,289,125	45.1388472295	II
3B	Ginnie Mae	2019-100	SG(5)	August 30, 2019	38381IX157	(4)	INV/O	August 2049	N1L(PT)	75,000,000	0.8998705	59,249,028	100.0000000000	II
4	Ginnie Mae	2019-143	SA(5)	November 29, 2019	38382AZN8	(4)	INV/O	November 2049	N1L(PT)	60,000,000	0.71004425	56,803,538	100.0000000000	II
4	Ginnie Mae	2019-143	SI(5)	November 29, 2019	38382AZS7	(4)	INV/O	November 2049	N1L(PT)	60,000,000	0.77102887	46,261,732	100.0000000000	II
5	Ginnie Mae	2019-143	AS(5)	November 29, 2019	38382AZL2	(4)	INV/O	November 2049	N1L(PT)	53,333,334	0.71004425	37,869,026	100.0000000000	II
5	Ginnie Mae	2019-143	AS(5)	November 29, 2019	38382AZR9	(4)	INV/O	November 2049	N1L(PT)	40,000,000	0.77102887	30,841,154	100.0000000000	II
6	Ginnie Mae	2015-126	HS	September 30, 2015	38379QFM2	(4)	INV/O	September 2045	N1L(PT)	207,270,397	0.28071021	57,614,478	99.0230153320	II
6	Ginnie Mae	2016-088	S(7)	July 29, 2016	38379XTP5	(4)	INV/O	January 2046	N1L(SC/PT)	51,304,162	0.35176130	8,859,108	49.0895845838	II
7A	Ginnie Mae	2019-043	PL(3/5)	April 30, 2019	38381T2E4	3.0	FIX	April 2049	PAC 1	50,750,409	0.87907384	40,693,567	91.2138639119	II
7B	Ginnie Mae	2020-077	MA(5/6)	May 29, 2020	38382FBN3	3.0	FIX	October 2047	SC/PT	10,186,857	0.96476307	9,827,903	100.0000000000	II
7B	Ginnie Mae	2020-077	NA(5/9)	May 29, 2020	38382FBP8	3.5	FIX	March 2049	SC/PT	8,751,511	0.94672941	8,751,511	100.0000000000	II
8	Ginnie Mae	2019-159	UC(3/5)	December 30, 2019	38382BMB0	2.5	FIX	February 2049	PAC 1	28,097,000	0.97850494	28,338,514	12.1635442698	II
11A	Ginnie Mae	2019-089	JS(3/5)(10)	July 30, 2019	38381W6N3	(4)	INV/O	April 2049	N1L(SC/PT)	34,123,845	0.71194831	6,741,087	27.7474814311	II
11A	Ginnie Mae	2019-098	KS(5)	August 30, 2019	38381YDR2	(4)	INV/O	August 2049	N1L(PT)	26,666,666	0.83746339	7,048,838	31.5633420391	II
11B	Ginnie Mae	2018-163	MS(5)	November 30, 2018	3838IAZZ2	(4)	INV/O	November 2048	N1L(PT)	12,500,000	0.66802474	1,429,498	17.1191040000	II
11B	Ginnie Mae	2019-115	ES(5)	September 30, 2019	38381YU2	(4)	INV/O	September 2049	N1L(PAC/AD)	43,252,875	0.95805385	1,730,717	4.1765847935	II
11B	Ginnie Mae	2019-121	DS(5)(11)	October 30, 2019	38382AAK1	(4)	INV/O	August 2049	N1L(SC/PT)	45,434,673	0.88451281	3,453,993	8.5946849447	II
12A	Ginnie Mae	2019-089	JS(3/5)(10)	July 30, 2019	38381W6N3	(4)	INV/O	April 2049	N1L(SC/PT)	34,123,845	0.71194831	9,009,945	37.0864911083	II
12A	Ginnie Mae	2019-098	KS(5)	August 30, 2019	38381YDR2	(4)	INV/O	August 2049	N1L(PT)	26,666,666	0.83746339	9,421,274	42.1866573047	II
12B	Ginnie Mae	2018-163	MS(5)	November 30, 2018	3838IAZZ2	(4)	INV/O	November 2048	N1L(PAC/AD)	12,500,000	0.66802474	1,910,625	22.8808960000	II
12B	Ginnie Mae	2019-115	ES(5)	September 30, 2019	38381YU2	(4)	INV/O	September 2049	N1L(SC/PT)	43,252,875	0.95805385	2,313,228	5.5823040665	II
12B	Ginnie Mae	2019-121	DS(5)(11)	October 30, 2019	38382AAK1	(4)	INV/O	August 2049	N1L(SC/PT)	45,434,673	0.88451281	4,616,509	11.487418275	II
12B	Ginnie Mae	2020-011	SY(3/5)	January 30, 2020	38382B6A6	(4)	INV/O	January 2050	N1L(PT/PAC/AD)	125,392,636	0.95507388	722,036	0.6029062185	II
12B	Ginnie Mae	2020-063	SI(3/5)	May 29, 2020	38382FID7	(4)	INV/O	May 2050	N1L(PAC/AD)	15,463,191	0.99237318	6,413,897	41.7972655191	II
13A	Ginnie Mae	2015-148	BS(5)	October 30, 2015	38379QD74	(4)	INV/O	October 2045	N1L(PT)	30,000,000	0.38248617	5,737,292	50.0000000000	II
13B	Ginnie Mae	2010-115	GS	September 30, 2010	38377KDS6	(4)	INV/O	September 2040	N1L(PT)	46,354,711	0.11767874	5,454,963	100.0000000000	II
13C	Ginnie Mae	2013-102	BS	July 30, 2013	38378VWH4	(4)	INV/O	March 2043	N1L(PAC)	42,324,494	0.20502760	4,100,552	47.2599312641	II
13E	Ginnie Mae	2010-111	PS	September 30, 2010	38377JW75	(4)	INV/O	February 2041	N1L(PAC I/AD)	49,914,000	0.07009718	2,746,793	78.5060303722	II
13E	Ginnie Mae	2013-098	SD	February 28, 2011	38377QHV2	(4)	INV/O	February 2041	N1L(PT)	25,000,000	0.10692540	2,673,135	100.0000000000	II
14A	Ginnie Mae	2020-063	SA(5)	July 30, 2020	38378VCH6	(4)	INV/O	July 2043	N1L(PT)	88,408,180	0.18634447	1,211,239	7.3522608128	II
14A	Ginnie Mae	2020-063	SG(5)	May 29, 2020	38382FHH0	(4)	INV/O	May 2050	N1L(PT)	38,289,318	0.99345889	38,038,863	100.0000000000	II
14B	Ginnie Mae	2020-063	SI(3/5)	May 29, 2020	38382FID7	(4)	INV/O	May 2050	N1L(PAC/AD)	15,463,191	0.99237318	8,931,358	58.2027344809	II

- As defined under "Class Types" in Appendix I to the Base Offering Circular.
- Underlying Certificate Factors are as of July 2020.
- MX Class.
- The Interest Rate will be calculated as described under "Terms Sheet — Interest Rates" in the related Underlying Certificate Disclosure Document.
- More than 10% of the Mortgage Loans underlying this Underlying Certificate may be higher balance Mortgage Loans. See "Risk Factors" in *this Supplement*.
- Class LI is backed by a previously issued Ginnie Mae REMIC certificate, Class EB from 2018-122.
- Class S is backed by previously issued Ginnie Mae REMIC and MX certificates, as outlined below:
  - REMIC Class PS from 2015-141
  - MX Class PS from 2015-159
  - REMIC Class PS from 2016-001

- (8) Class MA is backed by a previously issued Ginnie Mae REMIC certificate, Class LA from 2017-182.
- (9) Class NA is backed by previously issued Ginnie Mae REMIC certificates, as outlined below:
  - REMIC Class NE from 2019-023
  - REMIC Class PA from 2019-030
- (10) Class JS is backed by previously issued Ginnie Mae REMIC certificates, as outlined below:
  - REMIC Class SA from 2018-107
  - REMIC Class AS from 2019-054
- (11) Class DS is backed by previously issued Ginnie Mae REMIC and MX certificates, as outlined below:
  - REMIC Class SM from 2019-099
  - MX Class KS from 2019-100



**\$751,998,400**

**Government National  
Mortgage Association**

**GINNIE MAE<sup>®</sup>**

**Guaranteed REMIC  
Pass-Through Securities  
and MX Securities  
Ginnie Mae REMIC Trust 2020-096**

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***OFFERING CIRCULAR SUPPLEMENT***  
**July 24, 2020**

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**BofA Securities  
Tribal Capital Markets, LLC**