# MARKET UPDATE AND FINANCING OPTIONS

# Raymond James Public Finance

PREPARED BY: Elizabeth Hennessy, Managing Director - Public Finance

PREPARED FOR

La Grange School District 105 Cook County, Illinois February 21, 2019



TABLE OF CONTENTS

PUBLIC FINANCE

**SECTION 1** Market Update

**SECTION 2** Financing Considerations

3

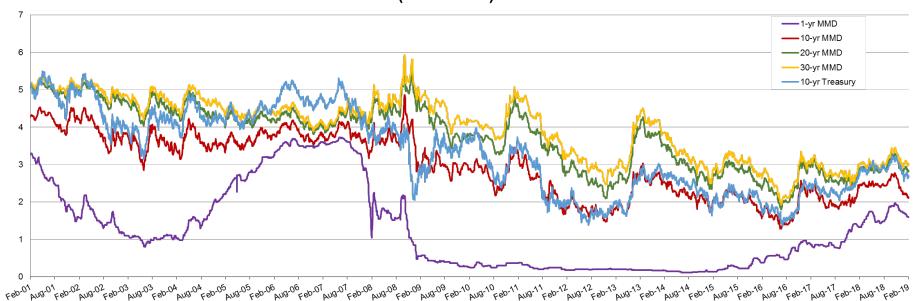
# **SECTION 1**

Market Update

RAYMOND JAMES

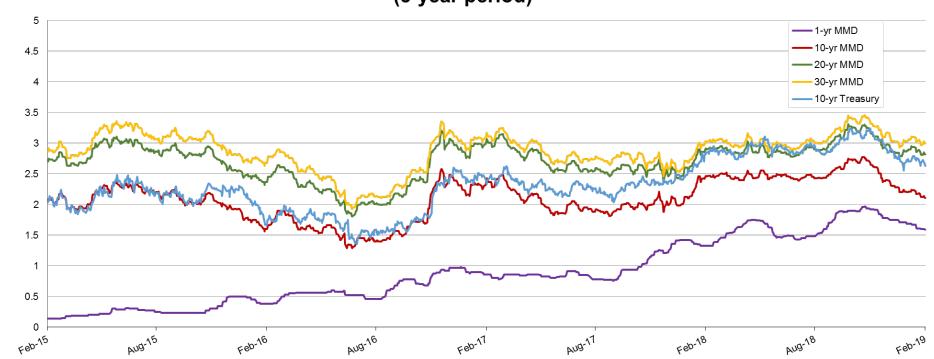
# ield (%)

# AAA-MMD Index and Treasury Rates (since 2001)



MMD Index represents Municipal Market Data AAA curve is the yield curve composed of "AAA" rated state general obligation bonds. The index is published every day at 3:00PM EST.

# AAA-MMD Index and Treasury Rates (5-year period)



MMD Index represents Municipal Market Data AAA curve is the yield curve composed of "AAA" rated state general obligation bonds. The index is published every day at 3:00PM EST.

Yield (%)

# **SECTION 2**

**Financing Considerations** 

RAYMOND JAMES

Dated			December 1, 2010		January 25, 2010	
Issue			G.O. (ARS) Bonds		G.O. (ARS) Bond	s
Series			2010C		2010B	
Original Par			\$3,100,000		\$24,080,000	
Earliest Call	1		1/15/21 @ 100		1/15/20 @ 100	
Maturity			January 15,		January 15,	
			Amount	Coupon	Amount	Coupon
Rating / Credit Enhancement			AA		AA	
					T	
	2017		140,000 t	3.854%	1,150,000	4.184%
s = sinking fund payment	2018		160,000 s	5.5911%	1,290,000	4.552%
t = final sinking fund	2019		170,000 s	5.5911%	1,355,000	4.652%
payment / term maturity	2020		175,000 s	5.5911%	1,420,000	4.752%
var= variable rate	2021		190,000 s	5.5911%	1,495,000	4.852%
	2022		205,000 s	5.591%	1,610,000	4.952%
	2023		215,000 t	5.591%	1,660,000	5.102%
	2024		220,000 s	6.775%	1,715,000	5.252%
	2025		230,000 s	6.775%	1,775,000	5.352%
	2026		240,000 s	6.775%	1,835,000	5.542%
	2027		250,000 s	6.775%	1,900,000 s	5.712%
	2028		260,000 s	6.775%	1,970,000 t	5.712%
	2029		275,000 s	6.775%	2,040,000 s	5.862%
	2030		285,000 t	6.775%	2,115,000 t	5.862%
	2031		·			
	2032					
Callable		\$20,295,000	\$2,180,000		\$18,115,000	
Non-Callable	7 I	\$6,050,000	835,000		5,215,000	
Refunded	1 I	0	0		0	
Total Outstanding		\$26,345,000	\$3,015,000		\$23,330,000	
Purpose/ Notes			New Money		New Money	
			Improve sites, build and equip	additions,	Improve sites, build and equip	additions,
			repair and equip school and ad	lmin	repair and equip school and a	dmin
			buildings		buildings	
	_					
Senior Underwriter			William Blair		William Blair	
Bond Counsel			Chapman and Cutler		Chapman and Cutler	
E	-		•		•	

Dated					December	1, 2010			January	25, 2010						
Issue					G.O. (ARS	) Bonds			G.O. (AF	S) Bonds						
Series					2010					10B						
Original Par					\$3,100	,000			\$24,0	80,000						
Earliest Call					1/15/21 (	<u>@</u> 100			1/15/20	@ 100				TOTAL	LESS:	Total
Maturity					Januar	y 15,			Janua	ary 15,				PER	32.83%	Net of
	Levy Year		Amount	C	Coupon	Interest	Levy	Amount	Coupon	Interest	Levy	TOTAL	LEVY YEAR	LEVY YEAR	Subsidy	32.83% Subsidy
-	2018	1/15/2019	1	70,000	5.911%	87,845	345,690	1,355,000	4.652%	559,428	2,473,857	2,172,273	2018	2,819,547	(425,000)	2,394,547
	2010	7/15/2019		70,000	5.51170	82,821	3.0,050	1,555,666	1100270	527,911	2,175,057	610,732	2010	2,015,017	(125,000)	2,55 1,5 17
	2019	1/15/2020	1	75,000	5.911%	82.821	340,641	1,420,000	4.752%	527,911	2,475,822	2,205,732	2019	2,816,464	(401,006)	2,415,457
	2017	7/15/2020		72,000	5.51170	77,649	310,011	1,120,000	1175270	494,172	2,173,022	571,820	2017	2,010,101	(101,000)	2,110,107
	2020	1/15/2021	1	90,000	5.911%	77,649	345,297	1,495,000	4.852%	494,172	2,483,344	2,256,820	2020	2,828,641	(375,457)	2,453,184
		7/15/2021				72,033				457,903		529,936				
	2021	1/15/2022	2	205,000	5.911%	72,033	349,066	1,610,000	4.952%	457,903	2,525,806	2,344,936	2021	2,874,873	(347,956)	2,526,916
		7/15/2022				65,974				418,040		484,014				
	2022	1/15/2023	2	215,000	5.911%	65,974	346,949	1,660,000	5.102%	418,040	2,496,079	2,359,014	2022	2,843,028	(317,804)	2,525,224
		7/15/2023				59,620				375,693		435,313				
	2023	1/15/2024	2	20,000	6.775%	59,620	339,240	1,715,000	5.252%	375,693	2,466,386	2,370,313	2023	2,805,626	(285,827)	2,519,799
		7/15/2024				52,168				330,657		382,825				
s = sinking fund payment	2024	1/15/2025	2	230,000	6.775%	52,168	334,335	1,775,000	5.352%	330,657	2,436,314	2,387,825	2024	2,770,649	(251,363)	2,519,287
t = final sinking fund		7/15/2025				44,376				283,158		327,534				
payment / term maturity	2025	1/15/2026	2	240,000	6.775%	44,376	328,753	1,835,000	5.542%	283,158	2,401,316	2,402,534	2025	2,730,069	(215,059)	2,515,010
var= variable rate		7/15/2026				36,246				232,310		268,557				
	2026	1/15/2027	2	250,000	6.775%	36,246	322,493	1,900,000	5.71%	232,310	2,364,621	2,418,557	2026	2,687,113	(176,334)	2,510,779
		7/15/2027				27,778				178,046		205,824				
	2027	1/15/2028	2	260,000	6.775%	27,778	315,555	1,970,000	5.712%	178,046	2,326,093	2,435,824	2027	2,641,648	(135,144)	2,506,504
	***	7/15/2028			C ### #0 /	18,970	242.040	2040000	# O COO.	121,783	2 202 555	140,753	***		(0.0 44.0)	
	2028	1/15/2029 7/15/2029	2	275,000	6.775%	18,970 9,654	312,940	2,040,000	5.862%	121,783 61,991	2,283,566	2,455,753 71,645	2028	2,596,506	(92,418)	2,504,088
	2029	1/15/2029	2	285,000	6.775%	9,654	304,309	2,115,000	5.862%	61,991	2,238,981	2,471,645	2029	2,543,290	(47,042)	2,496,248
	2029	7/15/2030		.0.2,000	0.775/0	2,034	304,309	2,113,000	3.00270	01,771	2,230,901	2,471,043	2023	2,343,290	(47,042)	2,470,240
	2030	1/15/2031										-				
		7/15/2031														

Total \$2,545,000 \$1,094,577 \$3,639,577 \$19,535,000 \$6,963,328 \$26,498,328 \$30,137,905 \$30,137,905 \$27,492,495

Statutory Debt Limit (6.9% of EAV)	
2017 Equalized Assessed Valuation	640,214,283
6.9% Debt Limit	6.90%
Gross Debt Limit	44,174,786
Less: Outstanding Principal*	-
Net Debt Limit	44,174,786
* Does not include Alternate Revenue Bo	onds, which are

not subject to the debt limit

- The District's two outstanding bond issues the Series 2010B and the Series 2010C are callable 1/15/2020 and 1/15/2021 respectively.
- These bonds may be refunded in advance of the call date, however, if interest rates stay relatively stable, greater savings will be generated at the call date.
- Refunding bonds in advance of the call date results in negative arbitrage due the low investment rates on Treasury securities used in the refunding escrow and negative savings.
- When Build America Bonds (BABs) are refunded with tax-exempt bonds, the federal subsidy is lost.
- For purposes of this analysis, we assume the subsidy is 32.83% (6.2% sequestration rate reduction for 2019) of the interest cost instead of 35% on the Build America Bonds.
- A summary of the refunding scenarios is presented on the next slides.

The following options present different refunding strategies for the District to take advantage of savings if the Series 2010B and 2010C are to be refunded on a tax-exempt basis.

## **Option 1: Tax-Exempt Current Refunding (without cash contribution)**

Wait until 90 days or less to the call date of the bonds (2010B – 1/15/2020 and 2010C – 1/15/2021) for maximum savings

# Option 2: Tax-Exempt Current Refunding with \$2.5M Cash Defeasance

Same as option 1 but would allow the District to use \$2.5M cash to defease the bonds.

## **Option 3: Tax-Exempt Current Refunding with \$5M Cash Defeasance**

Same as option 1 but would allow the District to use \$5M cash to defease the bonds.

## LaGrange School District Number 105, Cook County, IL **Current Refunding of 2010B Bonds in 2019** AA Non Bank Qualified

	Net of Subsidy		
	Series 2010B	Series 2019	
Period	Prior	Refunding	Annual
<u>Ending</u>	Debt Service	Debt Service	<u>Savings</u>
1/15/2021	2,158,871	2,063,535	95,336
1/15/2022	2,225,147	2,131,400	93,747
1/15/2023	2,221,594	2,125,050	96,544
1/15/2024	2,219,706	2,122,500	97,206
1/15/2025	2,219,205	2,123,600	95,605
1/15/2026	2,215,395	2,121,400	93,995
1/15/2027	2,212,086	2,116,600	95,486
1/15/2028	2,209,187	2,114,200	94,987
1/15/2029	2,203,603	2,109,000	94,603
1/15/2030	2,198,278	2,106,000	92,278
	22,083,072	21,133,285	949,787

#### Savings Summary

Total Savings	\$949,787
Average annual savings	\$94,979
Net PV Savings	\$807,866
Par Amount of Bonds Refunded	\$18,115,000
PV as a % of Bonds Refunded	4.4597%
Average Coupon of Refunded Bonds	5.6233%
All-In TIC of Refunding Bonds	2.9190%
Negative Arbitrage	2,496
Efficiency	99.7%
Dated/Delivery Date	12/16/2019
Market Date	2/19/2019
2010B Bonds Call Date	1/15/2020

<sup>\*</sup>Rates used are based on current market for similar AA-rated transactions, plus +0.25% cushion.

## LaGrange School District Number 105, Cook County, IL **Current Refunding of 2010C Bonds in 2020** AA Non Bank Qualified

	Net of Subsidy			
	Series 2010C	Series 2020		Total
Period	Prior	Refunding	Annual	Annual
<u>Ending</u>	Debt Service	Debt Service	<u>Savings</u>	<u>Savings</u>
1/15/2021	-	-	-	95,336
1/15/2022	301,769	278,050	23,719	117,466
1/15/2023	303,630	287,050	16,580	113,124
1/15/2024	300,094	285,600	14,494	111,699
1/15/2025	300,082	284,000	16,082	111,687
1/15/2026	299,615	280,000	19,615	113,610
1/15/2027	298,693	280,800	17,893	113,379
1/15/2028	297,316	281,200	16,116	111,104
1/15/2029	300,484	281,200	19,284	113,888
1/15/2030	297,970	280,800	17,170	109,448
	2,699,653	2,538,700	160,953	1,110,740
	Savings	Summary		
Total	Savings		\$160,953	\$1,110,740
Avera	ge annual savings	8	\$16,095	
Net PV Savings			\$141,428	\$949,295
Par Amount of Bonds Refunded			\$2,180,000	\$20,295,000
PV as a % of Bonds Refunded			6.4875%	4.6775%
Average Coupon of Refunded Bonds				
All-In	TIC of Refunding	Bonds	3.0976%	
Negat	tive Arbitrage		573	
Efficiency			99.6%	
Dated	/Delivery Date	1/15/2021		
Marke	et Date		2/19/2019	
2010C	Bonds Call Date		1/15/2021	
*Rates used		rent market for sin	nilar AA-rated	transactions,

plus +0.50% cushion.

<sup>\*\*</sup>Prior Debt Service is net of BABS subsidy.

<sup>\*\*</sup>Prior Debt Service is net of BABS subsidy.

## LaGrange School District Number 105, Cook County, IL Current Refunding of 2010B Bonds in 2019, \$320K Cash Contribution

	Net of Subsidy		
	Series 2010B	Series 2019	
Period	Prior	Refunding	Annual
<u>Ending</u>	Debt Service	Debt Service	<u>Savings</u>
1/15/2021	2,158,871	2,027,081	131,790
1/15/2022	2,225,147	2,096,550	128,597
1/15/2023	2,221,594	2,090,950	130,644
1/15/2024	2,219,706	2,089,150	130,556
1/15/2025	2,219,205	2,086,000	133,205
1/15/2026	2,215,395	2,085,000	130,395
1/15/2027	2,212,086	2,081,400	130,686
1/15/2028	2,209,187	2,080,200	128,987
1/15/2029	2,203,603	2,071,200	132,403
1/15/2030	2,198,278	2,069,600	128,678
	22,083,072	20,777,131	1,305,941

Cavi	nac	Cum	marv

\$1,305,941
\$130,594
\$812,685
\$18,115,000
4.4863%
5.6233%
2.9189%
2,495
99.7%
12/16/2019
2/19/2019
1/15/2020

<sup>\*</sup>Rates used are based on current market for similar AA-rated transactions, plus +0.25% cushion.

### LaGrange School District Number 105, Cook County, IL Current Refunding of 2010C Bonds in 2020, \$2.18M Cash Contribution

Not of Subsidy

Net of Subsidy			
Series 2010C	Series 2020		Total
Prior	Refunding	Annual	Annual
Debt Service	Debt Service	<u>Savings</u>	<u>Savings</u>
-	-	-	131,790
301,769	-	301,769	430,366
303,630	-	303,630	434,274
300,094	-	300,094	430,649
300,082	-	300,082	433,287
299,615	-	299,615	430,010
298,693	-	298,693	429,379
297,316	-	297,316	426,304
300,484	-	300,484	432,888
297,970		297,970	426,648
2,699,653	-	2,699,653	4,005,594
Savings	Summary		
Total Savings			
ge annual savings	\$269,965		
/ Savings	\$519,653	\$1,332,338	
mount of Bonds Re	\$2,180,000	\$20,295,000	
PV as a % of Bonds Refunded			6.5649%
Average Coupon of Refunded Bonds			
All-In TIC of Refunding Bonds			
TIC of Refunding I	Bonds	0.0000%	
TIC of Refunding I		0.0000% N/A	
_			
ive Arbitrage		N/A	
ive Arbitrage		N/A N/A	
	Series 2010C Prior Debt Service	Series 2010C         Series 2020           Prior         Refunding           Debt Service         Debt Service           -         -           301,769         -           303,630         -           300,094         -           299,615         -           298,693         -           297,316         -           300,484         -           297,970         -           2,699,653         -           Savings Summary           Savings           V Savings           mount of Bonds Refunded           a % of Bonds Refunded	Series 2010C         Series 2020           Prior         Refunding         Annual           Debt Service         Debt Service         Savings           301,769         -         301,769           303,630         -         303,630           300,094         -         300,094           300,082         -         300,082           299,615         -         299,615           298,693         -         298,693           297,316         -         297,316           300,484         -         300,484           297,970         -         297,970           2,699,653         -         2,699,653           Savings Summary         \$2,699,653           V Savings

<sup>\*</sup>Rates used are based on current market for similar AA-rated transactions, plus +0.50% cushion.

<sup>\*\*</sup>Prior Debt Service is net of BABS subsidy.

### LaGrange School District Number 105, Cook County, IL Current Refunding of 2010B Bonds in 2020, \$2.82M Cash Contribution

Net of Subsidy		
Series 2010B	Series 2019	
Prior	Refunding	Annual
Debt Service	Debt Service	<u>Savings</u>
2,158,871	1,738,181	420,690
2,225,147	1,800,500	424,647
2,221,594	1,801,350	420,244
2,219,706	1,796,000	423,706
2,219,205	1,794,600	424,605
2,215,395	1,792,800	422,595
2,212,086	1,788,800	423,286
2,209,187	1,787,600	421,587
2,203,603	1,779,000	424,603
2,198,278	1,773,200	425,078
22,083,072	17,852,031	4,231,041
	Series 2010B Prior Debt Service 2,158,871 2,225,147 2,221,594 2,219,706 2,219,205 2,215,395 2,212,086 2,209,187 2,203,603 2,198,278	Series 2010B         Series 2019           Prior         Refunding           Debt Service         Debt Service           2,158,871         1,738,181           2,225,147         1,800,500           2,221,594         1,801,350           2,219,706         1,796,000           2,219,205         1,794,600           2,215,395         1,792,800           2,212,086         1,788,800           2,209,187         1,787,600           2,203,603         1,779,000           2,198,278         1,773,200

Savings Summary	Sa	vinas	Summary
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Total Savings	\$4,231,041
Average annual savings	\$423,104
Net PV Savings	\$851,808
Par Amount of Bonds Refunded	\$18,115,000
PV as a % of Bonds Refunded	4.7022%
Average Coupon of Refunded Bonds	5.6233%
All-In TIC of Refunding Bonds	2.9186%
Negative Arbitrage	2,490
Efficiency	99.7%
Dated/Delivery Date	12/16/2019
Market Date	2/19/2019
2010B Bonds Call Date	1/15/2020

<sup>\*</sup>Rates used are based on current market for similar AA-rated transactions, plus +0.25% cushion.

### LaGrange School District Number 105, Cook County, IL Current Refunding of 2010C Bonds in 2020, \$2.18M Cash Contribution

	Net of Subsidy		_	
	Series 2010C	Series 2020		Total
d	Prior	Refunding	Annual	Annual
g	Debt Service	Debt Service	<u>Savings</u>	<u>Savings</u>
21	-	-	-	420,690
)22	301,769	-	301,769	726,416
23	303,630	-	303,630	723,874
24	300,094	-	300,094	723,799
25	300,082	-	300,082	724,687
26	299,615	-	299,615	722,210
27	298,693	-	298,693	721,979
28	297,316	-	297,316	718,904
29	300,484	-	300,484	725,088
030	297,970		297,970	723,048
	2,699,653	-	2,699,653	6,930,694

#### Savings Summary

Total Savings	\$2,699,653	
Average annual savings	\$269,965	
Net PV Savings	\$519,653	\$1,371,461
Par Amount of Bonds Refunded	\$2,180,000	\$20,295,000
PV as a % of Bonds Refunded	23.8373%	6.7576%
Average Coupon of Refunded Bonds	6.7255%	
All-In TIC of Refunding Bonds	0.0000%	
Negative Arbitrage	N/A	
Efficiency	N/A	
Dated/Delivery Date	1/15/2021	
Market Date	2/19/2019	
2010C Bonds Call Date	1/15/2021	

<sup>\*</sup>Rates used are based on current market for similar AA-rated transactions, plus +0.50% cushion.

<sup>\*\*</sup>Prior Debt Service is net of BABS subsidy.

Scenario 1 - Tax-Exempt Current Refunding			Scenario 2 - Current Refunding with \$2.5M Cash Defe	easai	nce	Scenario 3 - Current Refunding with \$5M Cash Defeasance		се
Debt Service		Debt Service			Debt Service			
Total Proposed Refunding Debt Service on 2010B and 2010C Bonds	\$	23,671,985	Total Proposed Refunding Debt Service on 2010B and 2010C Bonds		20,777,131	Total Proposed Refunding Debt Service on 2010B and 2010C Bonds		17,852,031
Savings			Savings			Savings		
Total Savings from Current Refunding the Series 2010B	\$	949,787	Total Savings from Current Refunding the Series 2010B	\$	1,305,941	Total Savings from Current Refunding the Series 2010B	\$	4,231,041
with \$0 Cash Deposit	\$	-	with \$320,000 Cash Deposit	\$	(320,000)	with \$2,820,000 Cash Deposit	\$	(2,820,000)
Total Savings from Current Refunding Series 2010C	\$	160,953	Total Savings from Current Refunding Series 2010C	\$	2,699,653	Total Savings from Current Refunding Series 2010C	\$	2,699,653
with \$0 Cash Deposit	\$	<u> </u>	with \$2,180,000 Cash Deposit	\$	(2,180,000)	with \$2,180,000 Cash Deposit	\$	(2,180,000)
Total Net Savings	\$	1,110,740	Total Net Savings	\$	1,505,594	Total Net Savings	\$	1,930,694
Total Present Value Savings	\$	949,295	Total Present Value Savings	\$	1,332,338	Total Present Value Savings	\$	1,371,461
Current Average Payments FY21-FY30		2,456,959	Current Average Payments FY21-FY30		2,456,959	Current Average Payments FY21-FY30		2,456,959
Annual Average Savings	\$	111,074	Annual Average Savings	\$	400,559	Annual Average Savings	\$	693,069
Remaining Average Annual Payments FY21-FY30	\$	2,345,885	Remaining Average Annual Payments FY21-FY30	\$	2,056,400	Remaining Average Annual Payments FY21-FY30	\$	1,763,890

Note (1) These refunding scenarios assume current interest rates as of Feb 19, 2019 with +0.50% cushion for the current refunding in 2019 and 2020.

Note (2) Adjustments were made on the prior debt service to exclude the subsidies for the BABs.

Fund Balances as of June 30, 2018							
	Education	<u>0&amp;M</u>	<u>Trans</u>	<u>IMRF</u>	Working Cash	<u>Total</u>	
Beginning Fund Balance	9,796,900	1,108,147	1,574,290	587,446	1,880,564	14,947,347	
Revenues	29,818,502	4,052,447	560,464	631,284	114,417	35,177,114	
Expenditures	30,367,596	1,807,129	951,057	691,986	-	33,817,768	
Transfers	(918,682)	(1,525,000)	-	-	-	(2,443,682)	
Fund Balance	8,329,124	1,828,465	1,183,697	526,744	1,994,981	13,863,011	
Fund Balance % of Exp.	27%	101%	124%	76%		41%	
Possible Funds Toward Debt	-	750,000	750,000	-	1,000,000	2,500,000	
Remaining Fund Balance	8,329,124	1,078,465	433,697	526,744	994,981	11,363,011	
Fund Balance % of Exp.	27%	60%	46%	76%		34%	
Possible Funds Toward Debt	1,000,000	1,350,000	950,000	-	1,700,000	5,000,000	
Remaining Fund Balance	7,329,124	478,465	233,697	526,744	294,981	8,863,011	
Fund Balance % of Exp.	24%	26%	25%	76%		26%	

Date	Activity	Responsibility
February 2019	Review Financing Options	District/RJ
April 2019	Update 5 Year Financial Projections	District
July 2019	Determine Amount of Cash to use for Paying Off Bonds	District/RJ
August 2019	Prepare Offering Document and Meet with Bond Rating Agencies	District/RJ
September 2019	Board Approves Parameters Bond Resolution Authorizing Sale of Refunding of 2010B Bonds	District/RJ/ Chapman
October 2019	Close Bond Issue Paying Off Series 2010B Bonds on Call Date January 15, 2020	District/RJ/ Chapman
November 2020	Board Approves Transfer of Funds to Debt Service Fund to Pay Off Series 2010C Bonds	District/RJ/ Chapman
No Later than December 14, 2020	Wire funds to Paying Agent and direct Call Notice for Paying Off Series 2010C Bonds on January 15, 2021	District/RJ/ Chapman

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