Barclays Bank US

Bid Contact Riley Benz

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Item#	Line Item	Notes	Unit Price	Qty/Unit	Attch.	Docs
GEN2126726Q101-01	Library of Bond Underwriters	Supplier Product Code:	First Offer -	1 / contract	Y	Υ
				Supplier Total	\$0.	00

Barclays Bank US

Item: Library of Bond Underwriters

Attachments

Barclays Broward County RFP Response.pdf

Response to Request for Qualifications: Library of Bond Underwriters (Solicitation GEN2126726Q1)

Broward County, Florida

Broward County Board of County Commissioners



August 15, 2023





Dazarene Lescott and Latoya Clark-Forbes Purchasing Agent Broward County Board of County Commissioners 115 S Andrews Avenue RM 513 Fort Lauderdale, FL 33301

Dear Dazarene and Latoya,

On behalf of Barclays Capital Inc. ("Barclays"), the investment banking division of Barclays Bank PLC ("Barclays Bank"), we are pleased to provide our response to Broward County, Florida's (the "County") Request for Qualifications: Library of Bond Underwriters. We believe that our firm is well-qualified to serve the County given our extensive municipal bond structuring and underwriting experience, including in airport bond financings, exceptionally strong capital base and our commitment to Florida issuers, as summarized below.

National Leader in Municipal Bond Underwriting. Barclays is a leading municipal bond underwriter. Since June of 2020, our firm has completed over 400 senior managed, long-term negotiated financings with a par value of greater than \$66 billion. Recent major primary market tax-exempt financings of note for which Barclays served as senior manager include the \$1.7 billion Puerto Rico Aqueduct & Sewer Authority Revenue Refunding Bonds, Series 2022A-C; the \$2.3 billion State of California Various Purpose General Obligation Refunding Bonds, Series 2022; the \$3.0 billion Regents of the University of California Medical Center Pooled Revenue Bonds, 2022 Series Q; and the \$1.1 billion New Jersey Economic Development Authority, School Facilities Construction Refunding Bonds, Series RRR/SSS.

Financial Strength and Commitment to Municipal Finance. As one of the world's largest banks with a \$1.5 trillion balance sheet, Barclays Bank is one of the best-capitalized firms in the industry. Our financial strength enables us to deliver top-notch capital markets execution to the County through our willingness and ability to support its financings under any market conditions. Since 2010, Barclays has committed nearly \$3.5 billion to support unsold balances for long-term negotiated municipal issues. Barclays does not have a policy which formally limits the allocation of capital to any specific business, enabling the firm to underwrite a financing for the County of any size that it could reasonably contemplate.

Commitment to Florida. Barclays also upholds a strong Florida presence and is dedicated to serving the needs of the County and other Florida issuers. Since 2010, the Barclays team has senior managed approximately \$6.7 billion in financings for Florida borrowers including Miami-Dade County Public Schools, St. Johns District Industrial Development Authority, the City of St. Petersburg, Martin Memorial Medical Center, Brevard District Health Facilities, Miami Airport, Miami-Dade Seaport Department, the City of Palm Coast, the University of Miami, the Orlando Utilities Commission and City of Gainesville, Florida, among others. During that time, we have also served as co-senior or co-manager on nearly \$24 billion of Florida issues. Additionally, Barclays currently has over \$200 million in credit facilities outstanding to issuers in Florida.

We look forward to the opportunity to provide the County with creative financing ideas, resource support, and superior market execution. Barclays would be honored to have the opportunity to serve the County. Thank you for your consideration.

Sincerely,

James Henn, Managing Director

james.henn@barclays.com

(212) 526-2134

Jamo Herr

Luis Alfaro, Managing Director luis.alfaro@barclays.com (305) 789-5674 / (787) 296-6831



_	Table of Contents	
Cover		Page
Firm's	History	
1.	Give a brief history of your firm (maximum of one page).	1
Firm's	Key Personnel	
2.	Identify the key staff to be assigned to this engagement, including their roles and specific credit experience. Provide a brief resume for each including length of tenure with your firm.	1
3.	Does your firm maintain any full-time public finance offices in Florida? If so, provide location, staffing, and contact information and identify which, if any, of these offices that will be involved in providing Underwriter Services.	4
Firm's	Institutional Sales Experience	
4.	List retail and institutional sales experience for Airport, Port, Water and Sewer, Convention Center/Convention Center Hotel, General Obligation, Certificate of Participation, Special Obligation, Sports Facilities, and all other debt for which your firm served as Senior or Co-Manager in the past 5 years. Separate and subtotal by the type of debt listed above and include role, method of sale, date of issue, issue name, issue size, Rating, TIC, and gross spread.	5
5.	Over the term of this Underwriter Library, Broward County anticipates potential bond issuances across the County's various credits. Given the diversity of County credits, and your understanding of the County's ratings and finances, identify which transactions could be done competitively in normal market conditions and present your marketing strategies for those credits you recommend to be sold via negotiated sale.	5
6.	Describe your marketing plan to achieve the highest local and retail participation. List all retail sales offices located in Broward County.	7
Firm's	Past Performance	
7.	Provide three case studies for financings completed by your firm within the past 3 years. Describe unique challenges encountered and results and how they could apply to the County.	7
8.	Provide references of three local or statewide issuers for which your firm served as Senior or Co- Manager. Refer to Vendor Reference Verification Form and submit as instructed.	9
Firm's	Approach	
9.	What strategies would your firm recommend to incorporate into bond issuances in light of the repeal of the advance refunding authority. Describe the potential costs and benefits of each strategy from both the County and the investor's perspective.	9
10.	Describe your firm's ability and willingness to provide credit facilities to the County. Provide examples of credit facilities provided to other Florida local governments.	13
11.	Describe any client educational efforts your firm provides.	14
12.	Provide details on any active SEC or other regulatory investigations of your firm on a firm-wide basis. Provide the results of any past investigations or enforcement actions related to public finance or muni sales activities	15
Attach	ments	



Firm s History

1. Give a brief history of your firm (maximum of one page).

While Barclays Bank PLC ("Barclays Bank") has been working to help its clients achieve their goals for over 330 years, the development of the bank's global business began in 1925, with the merger of three banks – the Colonial Bank, the Anglo-Egyptian Bank and the National Bank of South Africa. Currently, Barclays Bank has over 120,000 employees. In 1981, Barclays Bank became the first foreign bank to file with the U.S. Securities and Exchange Commission and raise long-term capital in the New York market. In 1986, it became the first British bank to have its shares listed on the Tokyo and New York stock exchanges. Barclays Bank's global expansion was given added impetus in 1986 with the creation of its investment banking operation in the form of Barclays Capital Inc. ("Barclays").

Barclays' acquisition of select assets from Lehman Brothers Holdings Inc. continues the heritage that is rooted in the fixed income markets. Lehman Brothers underwrote its first municipal bond for the State of Alabama in 1867 and our team continues its proud tradition and commitment to the public finance arena under Barclays. Given the financial diversification of the Barclays brand, strong credit ratings, and the strength of a \$1.5 trillion balance sheet, we have an enhanced ability to provide highly experienced underwriting services in the municipal industry.

Headquartered in New York City, Barclays employs over 18,000 people worldwide in 46 offices, including 13 registered branch offices in 13 cities in the U.S. – including in Miami, Florida. Barclays maintains leadership positions in public finance and investment banking; fixed income and equity sales, trading and research; private equity; and investment management. With nearly 2,000 fixed income sales, trading and research professionals worldwide, we serve every investor segment and place securities across the entire credit curve in multiple currencies.

To effectively serve our municipal issuer clients, our Municipal Product Division combines 1) Public Finance; 2) Underwriting, Sales, Trading and Research; 3) Structured and Investment Products; and 4) Credit Products into one seamless business unit. Our **Public Finance Department** consists of approximately 80 public finance banking professionals organized into six regional groups and five industry specialty groups (Transportation/P3, Education, Healthcare, Housing and Utilities). Of relevance to the County, our Transportation Finance/P3 Group consists of 12 banking professionals. Our Transportation Finance/P3 Group covers the full range of airport, port, highway, toll road and transit issuers. Our P3 specialists, while sector-agnostic, most frequently focus on transportation-related projects.

Barclays' **Municipal Underwriting, Sales, Trading and Research Department** is responsible for the underwriting, sales and trading of municipal long-term, short-term, tax-exempt and taxable securities. Our **Structured and Investment Products Group** works with issuers to structure direct purchase, swapbased and investment products. Through our **Municipal Credit Products Group**, Barclays Bank offers a full range of traditional commercial bank credit and lending products.

Our Municipal Product Division has been led by **Robert Taylor**, *Managing Director*, since February 2010. Mr. Taylor has over 30 years of experience in the municipal business, including managing our Municipal Swaps and Investment Products Group for 10 years prior to his current role.

Firm s Key Personnel

2. Identify the key staff to be assigned to this engagement, including their roles and specific credit experience. Provide a brief resume for each including length of tenure with your firm.

<u>Team Members.</u> Barclays serves Broward County with one of the industry's most experienced and stable teams of municipal finance professionals. Our two senior bankers to the County have worked together at Barclays for 10 years. Additionally, our two lead airport/port bankers have dedicated a combined 57 years, working together at Lehman/Barclays for over 25 years, to serve airports like Fort Lauderdale International Airport (FLL), Miami International Airport, Tampa International Airport, Orlando



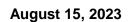
International, among dozens of others. Our lead underwriter has priced innumerable financings during his over 35-year career at Lehman/Barclays. With the many recent changes in airport and other municipal finance personnel at other firms, our team's long-term dedication to municipal finance and stability are unparalleled among investment banks.

Our core team members' roles, office locations, tenures and experience are summarized in Figure 1.

Figure 1: Barclays Team									
Team Member	Role	Location	Experience Firm/Industry	Experience					
Luis Alfaro	Senior Oversight; Co-Lead Banker	FL	10/22 yrs.	 22 years in municipal finance >\$40 billion of refinancing and new money transactions 					
James Henn	Senior Oversight; Co-Lead Airport/ Port Banker	NY	32/32 yrs.	 Head of Transportation Finance Group 32 years focused on airport finance >\$100 billion of airport transactions 					
Katherine Lee	Co-Lead Airport/ Port Banker	NY	25/27 yrs.	 25 years dedicated to airport finance >\$80 billion of airport transactions					
Danish Shaik	Banking Support	NY	<2/2 yrs.	Banking support for Phoenix Airport					
Riley Benz	Banking Support	NY	<1/1 yr.	• Banking support for MWAA and Phoenix Airport					
Hiran Cantu	Credit& Investor Analytics	NY	13/30 yrs.	 11 airport issues totaling \$6.3 billion (since 2019) 8 years' experience as credit analyst 					
Frank Vitiello	Lead Underwriter	NY	37/37 yrs.	 37 years of municipal underwriting experience 70+ airport issues totaling \$60b+ par 					
Greg Williams	Credit Products	NY	10/18 yrs.	 >\$70 billion of debt, equity, M&A & other financial product transactions 					
Jonathan Debrich	Structured Products	NY	17/17/yrs.	 >\$50 billion of direct purchase, swap and other structured products 					

Luis Alfaro, Managing Director and Manager of Florida Coverage, oversees our firm's municipal finance efforts in the State of Florida and will have primary responsibility for any engagement with the County. Luis joined Barclays in 2013 and covers Florida issuers such as Hillsborough County, Miami-Dade County, the City of Orlando, Duval County Public Schools, Central Florida Expressway Authority, Miami-Dade County School District, Osceola County School District, City of Jacksonville and Palm Beach, among others. He is also lead banker for the U.S. Virgin Islands and for the Commonwealth of Puerto Rico and its various issuers. His experience includes structuring debt transactions (loans and lines of credit), bond issues, purchases and sales of securities, structuring of other financial products, and notably leading the successful sale of \$1.7 billion of refunding bonds across four series for the Puerto Rico Aqueduct & Sewer Authority. Luis has formulated strategies and financial and organizational development plans for a series of major public institutions and has handled more than \$40 billion in refinancing and new money transactions. Among other achievements, Luis has been a part of the following: creation of the Puerto Rico Sales Tax Financing Corporation ("COFINA") for the issuance of Sales Tax Revenue Bonds, restructuring of auction rate and variable rate debt portfolios and a Bond Buyer Deal of the Year Award for the Puerto Rico Housing & Finance City \$385 million modernization program transaction.

James Henn, Managing Director and Manager of Transportation Finance Group, provides joint lead responsibility for our coverage of the County. He has dedicated the preponderance of his 32-year career at Lehman/Barclays to airport and infrastructure finance. During this time, he has led or been involved in over \$100 billion of airport-related transactions, including over \$50 billion as senior manager. James also served as lead banker and dealer manager in 2021 for the Puerto Rico Aqueduct and Sewer Authority's \$1.0 billion tender and exchange, and has served as co-tender agent on more than \$25 billion of tenders and exchanges for Puerto Rico issuers in recent years. James first introduced the idea for a securitization of Puerto Rico's then-proposed income tax in 2004. After being named senior manager on COFINA's inaugural issuance in 2006, Mr. Henn worked extensively with GDB and senior government





officials to develop the legislation and legal framework upon which COFINA is built.

Katherine Lee, *Director*, is a senior member of our Transportation Finance Group and spearheads Barclays' coverage of airports. Having focused almost exclusively on airport finance during her 25-year career, she has led or been involved in over \$80 billion of airport transactions. Within the past 10 years, she has led senior managed financings for large airports such as Chicago-O'Hare, Dallas/Ft. Worth, Denver, Los Angeles, Miami, Minneapolis-St. Paul and Phoenix Airports; the Metropolitan Washington Airports Authority (Reagan National and Dulles Airports, "MWAA"); and the Port of Seattle (Seattle-Tacoma Airport, "SEA"), among many others.

Danish Shaik, *Analyst*, would provide quantitative and transaction support. Danish recently provided execution support for Barclays' senior managed transaction for Phoenix Airport.

Riley Benz, *Analyst*, would also provide quantitative and transaction support. Riley recently provided execution support for Barclays' senior managed transactions for Phoenix Airport and MWAA.

Hiran Cantu, *Director and Manager of Credit & Investor Analytics Group,* Hiran has been involved in municipal finance for 25 years. Hiran's finance experience encompasses assignments as a credit rating analyst, surveillance analyst, a municipal financial advisor and an investment banker. Hiran previously worked at Fitch Ratings, where he was lead credit analyst for several high profile clients and authored several criteria and special reports. He has also worked at a financial bond insurer where he managed the credit surveillance of over 1,500 credits. In his investment banking capacity, he has served as senior banker on several senior managed financings for issuers around the country and has created tailored credit rating frameworks and assisted clients with their rating agency and investor presentations.

Greg Williams, *Managing Director and Manager of Municipal Credit Group*, is responsible for structuring, implementing, and managing financial solutions for organizations, issuers, and institutional clients. Prior to rejoining Barclays in 2019, Greg spent four years as the Chief Financial Officer of PIH Health, an integrated healthcare delivery system with over \$1 billion in revenue headquartered in Los Angeles County. Before PIH Health, Greg spent six years at Barclays as an investment banker and co-led a derivatives and financial structuring group, where he served a variety of organizations and issuers in capital raising, advisory, and implementation of financial solutions. During his career Greg has structured over \$70 billion in debt, equity, M&A, and other financial products.

Jonathan Debrich, *Managing Director and Manager of Municipal Structured and Investment Products Group*, began his career in 2005 as a member of our municipal strategy and research group. He is responsible for developing tailored financing strategies to address clients' needs and reduce risk, and previously worked with the municipal syndicate group as a negotiated underwriter. Jonathan has extensive experience working with Florida Issuers and presenting opportunities for the use of derivatives and investment products, including forward purchase agreements, bond options and swaps, among other products.

Frank Vitiello, *Director and Senior Member of Municipal Syndicate Desk*, serves as our lead underwriter for the County. Frank is a 37-year veteran of municipal underwriting and has led the pricing of hundreds of billions of municipal bonds. Frank is also Barclays' lead underwriter for airport issuances; few – if any – other underwriter has priced more airport bonds than Frank. Over the course of his career, Mr. Vitiello has directed the pricing of over \$60 billion of financings by large airports, including most recently for Boston-Logan, Chicago-O'Hare, Dallas/Ft. Worth, Denver, Los Angeles, Miami, Minneapolis, Philadelphia and Phoenix Airports, MWAA and SEA, among many others.

Should the County pursue a tender program, our team would also include Michael Britchkow, *Director*, from our Municipal Finance Department and members of Barclays' **Liability Management Group**.

<u>Airport and Port Expertise.</u> With Barclays' dedicated Transportation Finance Group, we believe that our team is especially well-positioned to assist the County with financing needs relating to its airport and port credits. As previously noted, our two lead airport/port bankers have dedicated a combined 57 years, working together at Lehman/Barclays for over 25 years, to serve airports



like Fort Lauderdale Airport (FLL). Our team consistently ranks among the top underwriters of airport bonds and maintains a particular focus on serving the needs of large airports. Within the State, Barclays is currently a member of bond underwriting teams for both Orlando and Tampa Airports. We have also served as senior managing underwriter for the Port of Seattle, the Port of Tacoma, Port Authority of New York and New Jersey and the Massachusetts Port Authority.

For 2023YTD, Barclays has an ~16% market share among senior managers of airport revenue bonds. As summarized in Figure 2, Barclays has to date served as underwriter for 5 issues this year, including 3 as book-runner or co-senior manager. Barclays will serve as book-runner for Chicago-O'Hare Airport's ~\$180 million bond issuance set to price in the third week of August, and was recently engaged by San Francisco Airport to serve as book-running senior manager for an ~\$800+ million financing this fall.

Barclays has also led the largest single issuance of airport revenue bonds since 3Q/2022, having senior managed Denver Airport's \$1.2 billion issue in November 2022. This financing remains one of only three airport transactions in excess of \$1 billion to be executed within the past 12 months.

Figure 2: Barclays' 2023 Airport Experience								
Date	Issuer	Par	Role					
Feb-23	San Francisco Airport	\$242m	Co-Mgr.					
May-23	Phoenix Airport	\$97m	Book-runner					
May-23	MWAA	\$436m	Book-runner					
Jun-23	Houston Airports	\$756m	Co-Senior Mgr.					
Jul-23	Salt Lake City Airport	\$600m	Co-Mgr.					
Aug-23*	Chicago-O'Hare Airport	\$180m*	Book-runner					
Oct-23*	San Francisco Airport	\$800m*	Book-runner					
	Total	\$3,111m*						

2023 Year-to-Date Highlights

- Underwriter for 5 airport issuances
- ✓ Book-runner for two large hub airport issues totaling \$533 million over the past two months, with 18% market share
- ✓ One of only 2 firms to have brought at least 2 large hub airport issuers to market this year
- Underwrote \$84 million of unsold balances as book-runner for MWAA

*Preliminary, subject to change

3. Does your firm maintain any full-time public finance offices in Florida? If so, provide location, staffing, and contact information and identify which, if any, of these offices that will be involved in providing Underwriter Services.

Barclays maintains an office in Miami, Florida that employs 9 professionals. The office is located at 1111 Brickell Avenue, 12th Floor, Miami, FL 33131. Luis Alfaro, Managing Director and lead dayto-day banker to the County, is based out of Barclays' Miami office and can be contacted at (320) 432-4631. Luis provides our clients with in-depth analysis of the Florida market, regional coverage and commitment and the highest level of service. Florida clients, and specifically those in South and Central Florida, are a key focus for the firm, and we will continue to commit additional resources to the County, the State and its agencies. Our team has a longstanding history with Florida issuers and is familiar with a variety of Florida credits, including the County's. Several members of the County's assigned banking team have served high-profile Florida issuers, including: Miami-Dade and Hillsborough County, the Orlando Utilities Commission, Central Florida Expressway, Miami-Dade Expressway, Miami Airport, Florida Hurricane Catastrophe Fund, Sunshine State Government Finance Commission, the City of Jacksonville, Duval County Public Schools and Miami-Dade County School Board, among others.

Barclays is committed to its coverage in Florida, committing four experienced senior officers to work with the largest issuers in the region. Our team is proud of its recent efforts and commitment to the Florida region, and as a result of these efforts, *Barclays has been able to expand its client base and has been included in several underwriting pools, such as Duval County Public Schools, City of Jacksonville, Central Florida Expressway (CFX), Broward County Schools, Greater Orlando Aviation Authority and Hillsborough County Aviation Authority, among others.* Since 2010, we have been involved on over \$30 billion of Florida transactions.



Firm s Institutional Sales Experience

4. List retail and institutional sales experience for Airport, Port, Water and Sewer, Convention Center/Convention Center Hotel, General Obligation, Certificate of Participation, Special Obligation, Sports Facilities, and all other debt for which your firm served as Senior or Co-Manager in the past 5 years. Separate and subtotal by the type of debt listed above and include role, method of sale, date of issue, issue name, issue size, Rating, TIC, and gross spread.

Barclays is a leader in municipal finance, ranking 8th nationwide in long-term, negotiated transactions over \$100 million since 2013. More importantly, we are a leader in structuring, marketing and pricing complicated and challenging transactions that require in-depth quantitative analysis and nuanced marketing. This focus on serving the largest and most complex issuers like the County translates into our 6th place national ranking in terms of average deal size. As one of the world's largest banks, Barclays is able to underwrite a municipal transaction of up to \$85 billion, enough to support multiple times the amount of the County's debt outstanding.

Please see **Appendix B** for a list of Barclays' senior and co-managed transactions over the past 5 years in the requested categories.

Barclays' capabilities have earned accolades industry-wide, including 2017 DCM (Debt Capital Markets) House of the Year, multiple Bond Buyer deal of the year awards, designations as "Bond House of the Year" and "North America Structured Finance House" by International Financing Review, "Best Global Debt House" and "World's Best Bank for Public Sector Clients" by Euromoney and #1 rankings in fixed income for 10 consecutive years by Greenwich Associates. Barclays' sales capabilities and balanced distribution network will ensure the successful placement of the County's bonds both in Florida as well as nationally. Barclays' sales capabilities and distribution structure are designed to provide the County with access to the complete range of national, regional and local investors that are most likely to participate in its bond issues, regardless of structure or product type.

5. Over the term of this Underwriter Library, Broward County anticipates potential bond issuances across the County's various credits. Given the diversity of County credits, and your understanding of the County's ratings and finances, identify which transactions could be done competitively in normal market conditions and present your marketing strategies for those credits you recommend to be sold via negotiated sale.

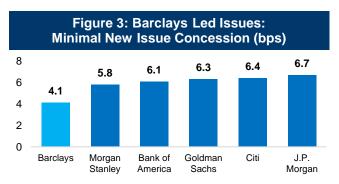
<u>Competitive vs. Negotiated Issuances</u>. We believe that with the County's current credit rating strength, strong financial position and relative scarcity of the County's bonds, that it could issue debt on a negotiated or competitive basis for certain of its credits, e.g., General Obligation, Half Cent Sales Tax or Water & Sewer credit. We strongly recommend issuing debt for more complex enterprise credits on a negotiated basis, especially for credits like the Airport and Port which will also likely require a significant portion of their debt to be subject to the AMT.

While a competitive issuance may be appealing in certain markets, we believe that the County would forego several potential benefits associated with a negotiated issuance process. Specifically, if the County were to utilize a negotiated issuance process, it would: (i) maintain control over takedown, as opposed to the banks controlling the takedown; (ii) gain transparency of investor demand for each maturity providing the County valuable feedback; (iii) benefit from investment banking services and better implement an investor outreach/pre-marketing program, which could include investor luncheons and one-on-one calls; (iv) reach a larger investor base through the use of a syndicate and a retail order period, unlocking access to individual retail investors not reached in a competitive issuance; and (v) enable the generation of "reverse inquiries" from investors, enabling the County to better match its issuance structure to meet investor demand. Consequently, we would recommend a negotiated sale for each of the County's credits, which would be consistent with the County's previous sale practice.



Marketing Plan for Negotiated Issuances. As senior manager, Barclays will develop and implement a comprehensive marketing effort to best position the County's credit to investors. As we discuss below, our marketing approach would incorporate a full range of activities designed to maximize investor awareness and understanding of its credit profile. To successfully develop a compelling credit narrative and encourage strong investor participation, Barclays' proven marketing approach is centered on the following four principal components, which would ultimately expand the County's investor base and reduce its borrowing cost as a result:

- 1. "Launching" and Posting the Preliminary Official Statement ("POS"). The POS remains a central element of the marketing process. We would work with the County and its financing team to prepare the POS and to evaluate the optimal timing for its distribution. On a preliminary basis, we suggest posting the POS one to two weeks prior to pricing, which would allow sufficient time to implement a full range of activities to reach and educate investors. We would anticipate disseminating the POS to the nearly 300 investors covered by our municipal salesforce.
- 2. Develop and offer an investor presentation highlighting credit strengths and important security features. We will work with the County to prepare an electronic road show which will be released to a broad investor base at the same time as the distribution of the POS. The electronic road show will provide an overview of the financing and address the credit features of the transaction. Depending on the credit, we would likely suggest offering investors the opportunity for one-on-one conference calls with County officials. Our investor clients have repeatedly emphasized the value they place on these interactions as they can ask questions openly. More often than not, one-on-one interactions that we have arranged resulted in large anchor orders that provide positive momentum during the pricing of a transaction.
- 3. Identify a target list of high-probability investors including both current holders and potential new investors. Barclays leverages the significant capabilities of our Credit & Investor Analytics Group to enhance our marketing process and pricing results. With extensive analysis of public and proprietary data based on our active participation in the secondary market, this team develops substantial insight in investor activity and preferences. As result, we are able to successfully identify investor targets who publicly report their holdings, as well as many who do not. This team further supports our sales force with a Notable Investor List that highlights investors well-positioned to participate in the transaction, rationale for their participation, along with summary data for 150+ targeted investors.
- 4. Manage a tailored set of marketing activities towards targeted investors in order to generate maximum demand for the bonds. Barclays will create and distribute an internal Sales Point Memo that provides key information to our sales force and traders. Together with the POS, investor conference calls and electronic road show, this memo serves as the basis for our sales efforts and includes transaction information, security features and an analysis of key credit characteristics.



MSRB Data: 1/1/2018–4/30/2022; tax-exempt, 5% coupon, >10 yr. maturities, trade size>\$1mm. Excludes March 2020 due to market volatility.

Highlighting the success of our approach, Barclays' investor targeting program typically identifies, prior to

posting the POS, investors who eventually account for over 85-90% of orders for a given transaction. Our effectiveness is additionally highlighted by **Figure 3**, which shows that bonds priced by Barclays trade with the smallest new-issue concession compared to other firms. Newly-issued bonds typically trade at a concession, i.e., at a higher price (or lower yield), after they become "free to trade" when the



BPA has been executed. **Figure 3** highlights Barclays' success pricing bonds with the smallest new issue concession, translating into the lowest borrowing costs for our clients.

6. Describe your marketing plan to achieve the highest local and retail participation. List all retail sales offices located in Broward County.

As senior manager, Barclays will leverage one of the top fixed income distribution franchises in the industry with a reach that extends to key professional retail aggregators and individual Florida and national retail investors.

In addition to the strategies discussed above to help maximize institutional demand, below we discuss several steps that the County can take in order to maximize individual demand. This would include early and active involvement in the transaction of the co-managers and the selling group, if any, in order to maximize participation of individual retail buyers, providing the internet roadshow early in the marketing process, maximizing communication with an early syndicate call in advance of and during the retail order period and early release of a pre-marketing scale to provide individual retail investors with price guidance so that brokers can more effectively market to retail accounts. In addition to good communication within the syndicate and ample time to market to retail investors, we describe in detail below strategies the County should consider utilizing to ensure maximum outreach to retail investors.

- 1. Timing. Individual retail investors often need more time than institutional investors to make investment decisions. We thus recommend releasing a premarketing scale at least one day prior to pricing to allow the sales force to focus retail investors on the specific structure of the transaction. This provides the additional benefit of allowing institutional investors the opportunity to evaluate the structure and provide input to our underwriters.
- Retail Priority. To maximize retail participation, we recommend giving traditional retail investors
 priority, with the top priority to Florida-domiciled individual investors, followed by national individual
 retail and then institutional orders. This ensures that retail investors and syndicate members will be
 confident that their orders will be filled.
- 3. Couponing, Term and Call Structure. Barclays recommends a structure that includes both premium couponed bonds, which are preferred by institutional investors and retail aggregators seeking to maximize tax-exempt cash flows, as well as bonds priced at or near par to target traditional individual retail investors. Based upon market conditions, we could create retail coupons in specific parts of the yield curve where we anticipate the most market demand. It is important that this structuring approach is agreed upon in the marketing period so that the syndicate can mobilize their brokers and increase traditional retail demand.
- 4. Retail-Only Order Period. A retail order period can be an effective tool to maximize retail distribution and provides incentives for retail brokers to market an issue. For non-interest rate sensitive issues, we would recommend a one-day retail order period, followed by institutional pricing the following day. We may recommend restricting the maturities offered during the retail order period to concentrate interest in those parts of the curve that appeal most strongly to retail buyers.
- 5. Inclusion of a Selling Group. Utilizing a selling group can enhance retail distribution of the Authority's issuance. To the extent that a selling group is used, we recommend the County select a selling group with a significant private client presence in Florida to supplement the underwriting team.

We are mindful of the County's local retail participation goals and our team will employ the above initiatives to work with each syndicate member to maximize retail distribution. Barclays does not maintain a retail sales office in Broward County.

Firm s Past Performance

7. Provide three case studies for financings completed by your firm within the past 3 years. Describe unique challenges encountered and results and how they could apply to the County.





\$426,225,000 Metropolitan Washington Airports Authority ("MWAA") Airport System Revenue and Refunding Bonds, Series 2023A (AMT). Barclays led the pricing of this successful transaction on May 24, 2023.

Key Financing Objectives and Structure. The Series 2023A Bonds ("Bonds") were issued to i) fund costs of certain capital projects at Reagan National and Dulles International Airports, ii) refund MWAA's outstanding Series 2013A, and iii) repay a revolving loan note. The Bonds' ratings of 'Aa3/AA-/AA-' were affirmed by Moody's, S&P and Fitch, respectively.

Barclays worked with MWAA and its financial advisor to optimize the overall debt structure, including front-loading debt service savings to reduce near-term cost per enplanement at Dulles Airport. Additionally, Barclays worked with MWAA to offer the entire issue with a par call in 9 years – rather than the traditional 10 years – to enhance MWAA's future refunding optionality and flexibility. To meet investor preferences and maximize demand, Barclays also worked with MWAA to offer bonds with 5.25%, 5% and 4.50% coupons.

Marketing and Investor Distribution. The week leading up to pricing saw a high degree of volatility in the financial markets, highlighted by growing concerns about the lack of progress on debt-ceiling negotiations and FOMC members' public statements warning of potential future additional rate hikes. In the week leading up to pricing, MMD had increased by 25-50 bps across the curve, including by 10 bps across the curve (except for the 2024 maturity) on the day before pricing. Additionally, late in the afternoon before pricing, \$8 million of MWAA bonds maturing in 2025 traded at 16 basis points higher than our premarketing scale, adding significant pressure to increase MWAA's yields before opening the order period the next morning.

Despite challenging market conditions, Barclays' investor outreach efforts produced a robust order book, totaling \$2.2 billion of orders (5.1x subscription) placed by 63 unique investors. Barclays' investor targeting efforts identified – prior to the posting of the POS – 17 of the 26 investors who do not publicly report holdings but placed orders for the Bonds. Among these, we secured orders from 9 new investors, i.e., investors who were not reported holders of MWAA bonds and had not traded MWAA bonds recently with Barclays or in the bids-wanted exchanges. Ultimately, with some maturities receiving no investor orders due to the inversion of the yield curve, Barclays offered to take \$84 million of unsold balances into inventory at verbal award.

\$1.2 Billion City & County of Denver, Colorado Airport System Revenue Bonds, Series 2022C and Series 2022D.On November 3, 2022 Barclays led the successful sale of \$1.2 billion Airport System Revenue Bonds, Series 2022C-D, by the City and County of Denver, Colorado ("City"), for and on behalf of Denver International Airport ("DEN"). The Series 2022C-D Bonds, rated "Aa3/AA-/AA-" by Moody's, S&P and Fitch, respectively, were issued to fund new money needs, refund certain outstanding bonds for debt service savings and pay the costs of terminating certain swaps.

This transaction highlights Barclays' ability to execute a large and complex financing under challenging market conditions. The municipal market remained under significant pressure the week prior to pricing, with tax-exempt yields unchanged even as Treasuries improved, and with secondary market selling ("bids wanted") reaching peak levels. On the day before pricing, the Fed raised its benchmark rate by 75 bps as expected; based on certain dovish language in its statement, both Treasury and municipal markets reacted favorably with yields falling. By the morning of pricing, however, both markets began to trade with higher yields as investors digested Chairman Powell's remarks from the day prior, which indicated that interest rates would likely remain higher for longer. Barclays ultimately decided to delay launching the order period as we continued to work with investors to develop their indications while monitoring the Treasury market and early MMD reads. Barclays ultimately generated orders from 110 unique investors despite substantial market volatility and, with \$7.9 billion of orders, tightened yields by 2-14 bps at repricing.





\$1.7 Billion Puerto Rico Aqueduct and Sewer Authority Revenue Refunding Bonds, Series 2021ABC and Series 2022A. In August 2021, Barclays: (i) led the successful sale of

\$1.7 billion of refunding bonds across four series for PRASA; and (ii) acted as dealer manager for PRASA's simultaneous tender/exchange. The Series 2021ABC current delivery bonds refunded the Series 2012AB bonds for significant savings, and the Series 2022A forward delivery bonds refunded the remaining Series 2012A bonds that were not tendered or exchanged for. Barclays analyzed PRASA's then-current holders and, in coordination with our investor marketing team and sales desk, used the information gained including investor concentration and feedback, to propose and successfully execute a dual cash and exchange tender transaction for the Series 2012A bonds. Prior to marketing, Barclays worked closely with PRASA's financial advisor to develop a targeted strategy that maximized the deal's success, including maximizing the number of investors reached at the lowest cost to PRASA, while also reducing the amount of work for the issuer and preserving PRASA's traditional investor base. A dedicated

The deal saw robust demand, with \$3.9 billion in total orders and the Series 2022A forward bonds pricing only 18-25 basis points wider than the rest of the transaction, even with a 10-month forward delivery. Barclays facilitated one-on-one calls with investors who ultimately tendered or exchanged a total of \$446.5 million of bonds. In aggregate, Barclays generated \$1.0 billion in tender and exchange orders from investors across 35 different funds. The transaction generated: (i) \$570 million of gross debt service savings, including more than \$21 million of annual savings in each of FY 2022-47; (ii) \$362 million of PV savings, or 20% of refunded par; (iii) an all-in TIC of 3.21%; and (iv) all investors consented to modify the priority of payments under PRASA's Master Agreement of Trust back to a "net pledge."

information, tender, and exchange agent was used and the tender period was open for three weeks to

ensure sufficient investor access and communication – most of which was handled by Barclays.

8. Provide references of three local or statewide issuers for which your firm served as Senior or Co-Manager. Refer to **Vendor Reference Verification Form** and submit as instructed.

Please refer to the Vendor Reference Verification Forms.

Firm s Approach

9. What strategies would your firm recommend to incorporate into bond issuances in light of the repeal of the advance refunding authority. Describe the potential costs and benefits of each strategy from both the County and the investor's perspective.

The County can consider several strategies to realize savings on bonds with future call dates. As the County is aware, tax-exempt forward delivery and taxable advance refunding strategies have been successfully executed by municipal issuers for many years. Under current market conditions, we note the following:

- Taxable advance refundings of the County's Series 2015A/B Airport System Revenue Bonds and Series 2015A/B Water & Sewer Utility Revenue Bonds do not provide present value debt service savings.
- 2. Current refunding of the County's Series 2012 Q-1 Airport System Revenue Bonds have a refundable par of \$108.6mm, and produce present value debt service savings of \$6.2mm (5.7%).
- Recognizing that July 3, 2025 is the earliest date on which tax-exempt refunding bonds can be issued under tax law, investor demand for forward delivery bonds that are delivered more than 15 months after pricing is extremely limited – making a forward delivery refunding approach viable beginning 2nd quarter of 2024.
- 4. Additionally, Barclays is able to work with the County to enter into a forward direct purchase of its refunding bonds. This strategy would allow the County to set rates for its refunding bonds and lock in savings quickly and expeditiously since we would not require the preparation of a POS and full marketing program. We are able to purchase bonds with a longer forward delivery period than the ~15-month forward period accepted by the public market. And, depending on the length



- of the forward period, Barclays may be able to purchase the County's bonds at rates that are lower than in the public market.
- 5. A tender offer to holders of the County's Airport System Revenue Bonds Series 2019C can produce \$12.9 million of present value savings (6.0%).
- 6. Finally, a cash optimization refunding of the County's Airport System Revenue Bonds Series 2015A produces \$9.0 million in present value savings (2.4%).

As member of the County's underwriting team, Barclays would continuously monitor all of these opportunities and strategies, as they are likely to become more attractive over time.

<u>Tender Program.</u> A significant number of municipal issuers have undertaken and executed successful tender programs in recent months to realize substantial debt service savings, and in some cases, recapture optional redemption flexibility. Regarding potential costs and benefits, the County should be aware that unlike traditional refundings, the economic benefits associated with tenders depend directly on investor willingness to tender their bonds back to the County, which in turn depends on their investment objectives, market conditions and outlook, among other potential considerations.

Given this uncertainty, a significant but manageable tender process, along with the customary legal documentation and marketing process for a new issuance, we strongly recommend executing a tender process in conjunction with a new money (or refunding) issuance, rather than as a stand-alone endeavor.

We note that the results presented below reflect all estimated expenses associated with executing a tender program, and importantly, an estimation of likely investor participation rates. Lastly, we note that due to certain SEC guidelines and DTC policies, our sample financing schedule includes at least 10 days to conduct the tender offer period. While manageable, a tender process could limit the County's flexibility to adjust the timing of the pricing in response to changing market conditions.

Taxable to Tax-Exempt Tender Opportunity. Subject to review by tax counsel, it is our belief that all \$694.7 million of the County's outstanding taxable Airport System Revenue Bonds Series 2019C Bonds are likely eligible to be refinanced on a tax-exempt basis (at any time) given their underlying escrows will fully expire on October 1, 2023. Per its Debt Financing Policy Guidelines, we expect the County to adhere to a 3% NPV savings target. The combination of favorable ratios between the MMD Index and U.S. Treasury yields (which have led to a historically wide spread between tax-exempt and taxable yields), coupled with a higher interest rate environment (that has generally caused taxable municipal bonds to trade at a discount to par) creates a unique opportunity for the County to generate meaningful savings by (i) soliciting a tender offer for the 2019C Bonds ("Target Bonds") to purchase them below par and (ii) simultaneously issuing tax-exempt bonds on a current delivery basis. That said, given market volatility, the assumption-driven nature of tender analyses, and the ability to reject bonds offered for tender if they do not meet the County's savings criteria at the time of pricing, we also considered a universe of candidates that provide at least positive NPV savings as bonds slightly below the savings threshold may become viable targets with changing volatility and assumptions.

Preliminary Financing Results. Barclays is pleased to update our analysis of this tender opportunity that we first shared with the County and its financial advisors in November 2022. It should be noted that we have made certain assumptions regarding the use of AMT and Non-AMT refunding bonds that would be subject to review by legal counsel. Using the indicative scales provided in **Appendix A** and as summarized in **Figure 4**, and assuming a \$3.00 per bond tender premium (in line with the market average), a tender of the Target Bonds, assuming 100% participation generates \$36.9 million of total PV savings, or 6.0% of refunded par. Assuming 35% participation, which is in line with the average participation for tenders of outstanding municipal taxable bonds since 2017, the proposed tender generates \$12.9 million of total PV savings (6.0%). We have additionally included **Figure 5** that shows individual savings by maturity for the Series 2019C Bonds assuming 100% participation. The items



shaded in blue denote those bonds that pass the County's Debt Financing Policy Guidelines of 3% per maturity.

	Figure 4: Key Refinancing Statistics for Taxable to Tax Exempt Tender of 2019C Bonds (\$MM) ¹										
			AMT (36.5%)		Non-AMT (63.5%)		Total				
	Outstanding		Par	PV	PV	Par	PV	PV	Par	PV	PV
	Principal		Amount	Savings	Savings	Amount	Savings	Savings	Amount	Savings	Savings
Series	Amount	Participation	Tendered	(\$)	(%)	Tendered	(\$)	(%)	Tendered	(\$)	(%)
2019C	\$694.7	100%	184.1	8.0	4.3%	432.0	28.9	6.7%	616.1	36.9	6.0%
20190	ф094.7	35%	64.4	2.8	4.3%	151.2	10.1	6.7%	215.6	12.9	6.0%

Figure 5: Monitor Results for Taxable to Tax Exempt Tender of 2019C Bonds (\$MM) ^{1,2}												
				AN	/IT (36.59	%)	Non-AMT (63.5%)			Total		
Maturity	T/E Eligible Par²	Coupon (%)	Tender Price (%) ³	Refunded Par	Net PV Savings (\$)	Net PV Savings (%)	Refunded Par	Net PV Savings (\$)	Net PV Savings (%)	Refunded Par	Net PV Savings (\$)	Net PV Savings (%)
2024	7.1	2.07	100.3	2.6	-0.1	-2.24%	4.5	-0.1	-1.96%	7.1	-0.1	-2.06%
2025	7.2	2.25	97.93	2.6	0.0	-1.04%	4.6	0.0	-0.33%	7.2	0.0	-0.59%
2026	63.1	2.38	96.16	23.0	0.0	-0.01%	40.1	0.5	1.16%	63.1	0.5	0.73%
2027	35.6	2.40	94.40	13.0	0.1	0.98%	22.6	0.6	2.61%	35.6	0.7	2.01%
2028	38.1	2.50	92.88	13.9	0.3	1.97%	24.2	1.0	4.15%	38.1	1.3	3.36%
2029	21.6	2.53	91.09	7.9	0.2	3.03%	13.7	8.0	5.89%	21.6	1.0	4.84%
2030	22.2	2.73	90.28	8.1	0.3	4.26%	14.1	1.1	7.67%	22.2	1.4	6.42%
2031	22.8	2.81	89.00	8.3	0.4	5.24%	14.5	1.3	9.29%	22.8	1.8	7.81%
2032	23.4	2.91	87.93	8.6	0.5	6.14%	14.9	1.6	10.85%	23.4	2.1	9.13%
2033	24.1	3.03	87.30	8.8	0.6	6.44%	15.3	1.8	11.73%	24.1	2.4	9.80%
2034	46.0	3.08	86.14	16.8	1.1	6.40%	29.2	3.4	11.53%	46.0	4.4	9.66%
2043	383.4	3.48	86.68	139.9	4.0	2.85%	243.5	16.9	6.92%	383.4	20.8	5.44%
Total (All I	Bonds)			253.6	7.5	2.95	441.1	28.8	6.53	694.7	36.3	5.23
Total ("Sa	vers" Or	ıly)		184.1	8.0	4.35	432.0	29.0	6.70	616.1	37.0	6.00

Importantly, tender programs typically achieve investor participation rates ranging from 20-50%, depending primarily on: i) the universe of current holders and the level of concentration, and ii) the indicative tender pricing, which we discuss below.

Investor Identification and Outreach. To maximize investor participation in the tender program, Barclays analyzes publicly available information as an initial source of existing bondholder information relating to

potential tender targets. We also leverage our significant secondary market trading experience to identify additional bondholders and to develop insight as to their appetite to tender their bonds.

Barclays identified all publicly available unique holders of the Target Bonds, who own \$452 million bonds, representing 65% of total outstanding par amount. Also, as shown in **Figure** 6, the top 10 holders account for 39% of total, outstanding par and are comprised mainly of insurance companies. As a near-term "next step" in evaluating the potential value of this proposed tender, we recommend that the County – working with its trustee – use the Non-Objecting Beneficial

Figure 6: Top Current Holders of Target Bonds ³								
Firm	Par	%						
riiii	(\$000s)	Outstanding						
Guggenheim	76,642	11.0%						
Nationwide Insurance	39,716	5.7%						
Nuveen	29,530	4.3%						
Wellington Mgmt	26,578	3.8%						
Metropolitan Life Ins	20,285	2.9%						
BlackRock	19,350	2.8%						
NJ Manufacturers Ins	16,220	2.3%						
New York Life	15,717	2.3%						
Voya	14,020	2.0%						
Apollo Insurance	13,905	2.0%						
Total Top 10	271,963	39.1%						
Total Identified	452,017	65.1%						
Total Outstanding	694,700	100.0%						
	Firm Guggenheim Nationwide Insurance Nuveen Wellington Mgmt Metropolitan Life Ins BlackRock NJ Manufacturers Ins New York Life Voya Apollo Insurance Total Top 10 Total Identified	Firm (\$000s) Guggenheim 76,642 Nationwide Insurance 39,716 Nuveen 29,530 Wellington Mgmt 26,578 Metropolitan Life Ins 20,285 BlackRock 19,350 NJ Manufacturers Ins 16,220 New York Life 15,717 Voya 14,020 Apollo Insurance 13,905 Total Top 10 271,963 Total Identified 452,017						

¹ Assumes market rates and BVAL prices as of August 10, 2023, \$3.00 tender premium, tender and delivery date of November 16, 2023, \$5 per bond issuance expenses, and \$2 per bond tender agent fee.

² Subject to review by tax counsel, we have assumed that 100% of each maturity can be refinanced on a tax-exempt basis (36.5% AMT and 63.5% non-AMT).

³ Source: Refinitiv EMAXX. As of August 10, 2023.



Owners ("NOBO") investor identification process to identify additional holders of the Target Bonds. A NOBO list shows beneficial owners that do not disclose their municipal bond holdings (e.g., banks, SMAs, retail) but have indicated that they do not object to their name, mailing address, and position amount being shared. Barclays would welcome the opportunity to utilize our previous experience with the NOBO Process to assist the County.

To further enhance investor outreach, Barclays recommends engaging Globic Advisors ("Globic") to serve as information/tender agent. Globic would support the process by identifying and engaging with bondholders, distributing tender offer materials, interfacing with DTC and receiving and processing tender offers.

Purchase Price. We recommend a "fixed spread" methodology – the most common for tenders of taxable bonds - under which target tender bonds are offered for repurchase at a yield that I equal to the relevant benchmark security rate plus a fixed spread. Barclays considers the estimated market value of the bond as computed by a commercial bond pricing service, typically from either Intercontinental Exchange ("ICE") or Bloomberg ("BVAL"). We also analyze recent trades in the secondary market to ensure these pricing levels are consistent with recent market activity and accurately reflect current investor views. Our observed tender premiums average about \$3.00 per bond however can range anywhere from \$1.00 to \$4.50, and reflect considerations around bond maturity, duration and investor base, to induce investor participation.

Strategies to Increase Participation. To further entice participation, Barclays would work with the County evaluate a variety of incentive strategies, including: (i) providing a tender premium sweetener for tendering earlier in the offer window (a common practice for corporate tenders which have longer offer periods); (ii) giving priority in orders or allotments on the refunding bond side (or perhaps in a future transaction) for tender participants; and (iii) utilizing a solicitation fee scheme that compensates banks who can bring in retail participation (also a common practice for tenders).

Tender Regulatory Framework & Timing. Municipal tenders are governed by federal antifraud provisions included in Rule 10b-5 and Section 17(a), and while municipal issuers are exempt from the onerous provisions in Regulations 14D and 14E governing corporate tenders, these rules - together with the SEC's 2015 no-action letter - serve as a useful benchmark for the municipal market and offer insights

into tender practices that the SEC may view as concerning with respect to antifraud laws. Relating to scheduling, the SEC is principally focused on ensuring investors have sufficient time appropriately to consider the tender proposal. sample financing shown in a schedule that contemplates pricing on November 1 in Figure 7, the tender process can be incorporated readily into a potential new money bond offering. We propose a tender offer period of 10-12 business days, all depending on economic events, holidays or other considerations

		ai mantot ana onor moigine				
Figure	7: Key Marketing & Tend	er Program Activities				
	Bond Issue	Tender Program				
Sep- Early Oct	Initiate Investor Targeting Program; Prepare Offering Documents; Post Notice of Potential Bond Issuance on EMMA	Initiate Bondholder Identification & Engagement; Prepare Tender Documents; Post Notice of Potential Tender on EMMA				
Fri, Oct 13	Post POS and Investor Presentation	Post Notice and Invitation to Tender Bonds				
Thu, Oct 19	Marketing Period	Purchase Price Notice, <i>if desired</i>				
Fri, Oct 27	Marketing Period (cont'd)	Tender Expiration Date				
Mon, Oct 30	Pre-Market Bonds; Solicit Pricing Feedback; Pre-Pricing	Preliminary Notice of Results and Acceptance of Offers / Potential Second Look Period				
Tue, Oct 31	Price Bonds & Sign BPA					
Wed, Nov 1	Final Acceptance Date					

during the tender offer window. This timeline has been common practice for municipal tenders and allows investors sufficient time to evaluate the tender offer, thereby potentially increasing their participation. Barclays would work closely with the County to determine the optimal timeline and financing schedule to execute the proposed tender program alongside the County's planned issuance.



Additional Considerations. Since 2017, Barclays has acted as dealer manager on 15 municipal and governmental tender transactions targeting a total of \$95 billion in par. As detailed in a case study in response to **Question 7**, Barclays served as dealer manager for the Puerto Rico Aqueduct and Sewer Authority's \$1.0 billion tender and exchange in 2021, achieving a 77% participation rate. This was the third largest municipal tender, exchange or consent solicitation transaction in terms of bonds tendered since July 1, 2017 and achieved one of the highest participation rates for a municipal tender to date. Luis Alfaro and James Henn, our co-lead bankers to the County, served as lead bankers for this successful tender and as co-tender agent on over \$25 billion of tenders and exchanges for Puerto Rico issuers in recent years.

Barclays is willing to use our balance sheet to benefit the County throughout the tender and bond issuance process, as we did for the Puerto Rico tenders and exchanges. For example, Barclays is willing to purchase, directly from the County, the bonds issued to fund the tender – thereby simplifying the overall issuance and ensuring a successful tender regardless of market conditions. We are also willing to purchase tendered bonds in advance of the refunding bond settlement date to avoid a potential failed closing.

<u>Cash Optimization Strategy.</u> A cash optimization refunding provides an alternative strategy to achieve present value debt service savings similar to that of an advance refunding. **Figure 8** summarizes the results of a potential cash optimization targeting the County's Series 2015A Airport System Revenue Bonds. As we describe below, these savings would increase if the County is able to replace defeased AMT bonds with non-AMT new money bonds.

A critical consideration for this strategy is that it requires the County to have cash that it plans to apply to capital projects – which we believe is reasonable since the funding of 2019 Projects for the Airport included Airport System funds (per the 2019 Report of the Airport Consultant). Additionally, due to tax law considerations, there is a degree of interest rate risk not typically associated with refundings that may decrease (or increase) debt service savings.

Figure 8: Cash Optimization Results (\$000)*							
Series 2015A (AMT) Airport System Revenue Bonds							
Maturities	2024-2043						
Refunded Par	\$374,515						
Refunding Par	\$362,210						
PV Savings (\$)	\$8,976						
PV Savings (%)	2.40%						
* 101/	. , .,, ,						

* NPV savings achieved will depend on a variety of factors including investment and borrowing rates, separation time period required by tax counsel, and analysis of original arbitrage yields and uses of proceeds.

Mechanics & Potential Savings. Under a cash optimization strategy, the County would use cash earmarked for capital spending to defease bonds, and then issue new money bonds to fund such capital projects. As tax counsel typically require these two actions to be separated by at least 15 days, this strategy involves a degree of interest rate risk. That said, the advantages of a cash optimization relative to a tender are that: i) success does not depend on investor participation, ii) the County can select the most efficient bonds to defease and replace based on the amount of cash available to implement this strategy, iii) debt service savings can increase if defeased bonds can be substituted with new money bonds that have a more favorable tax status (e.g., defease AMT bonds with cash and issue non-AMT new money bonds), and, iv) the County can achieve substantial near-term cash flow savings if new money bonds are structured to match the average life of projects being financed rather than to achieve uniform savings. Please refer to **Figure 8** for a summary of results assuming a cash optimization targeting the County's Series 2015A Airport System Revenue Bonds, assuming new money bonds are subject to the AMT or alternatively, not subject to the AMT.

10. Describe your firm's ability and willingness to provide credit facilities to the County. Provide examples of credit facilities provided to other Florida local governments.

Barclays is an active provider of credit products to our municipal clients and would welcome the opportunity to provide credit facilities to the County.



\$mm

Barclays' current portfolio totals over \$15.5 billion, and includes products such as: (i) LOC and liquidity facilities to support tax-exempt and taxable VRDBs and Commercial Paper; (ii) direct purchases; and (iii) structured product solutions. VRDBs with Barclays LOCs/liquidity are consistently reset at or near the SIFMA index given the relative scarcity value of such bonds.

Active FL Facilities	\$mm	
Client	Size	Product
GRU (2012B,2005C,2006A)	\$105	SBPA
University of Miami	\$98	Revolver
University of Miami	\$12	Term Loan
Historical FL Facilities	\$mm	
Client	Size	Product
JEA (Jacksonville, FL, Electric Auth) 2008A	\$97	SBPA
Orlando-Orange County Expressway (2003D)	\$93	LOC
Jacksonville, Florida	\$80	LOC -CP
Miami-Dade County Water & Sewer	\$218	LOC -CP
Gainesville Regional Utilities 2008B	\$76	SBPA

Reflecting the goal of expanding this business – as well as our dedication to Florida issuers – we proactively monitor expiring credit facilities and liquidity needs and regularly submit unsolicited proposals to provide clients with financing alternatives ahead of scheduled expirations.

Barclays currently has over \$200 million in balance sheet products outstanding to issuers in Florida. This portfolio includes \$110 million with University of Miami and \$105 million with the Gainesville Regional Utilities. Recently, Barclays worked with CFX to convert an outstanding loan Barclays made to CFX in 2015 to a bond placed directly with Barclays at the same terms and at a lower interest rate. Barclays also served as commercial paper dealer for Miami-Dade County, and the execution and placement of the paper was flawless. As a result of our marketing efforts, Barclays expanded Miami-Dade County's investor base and placed the commercial paper with five new investors. Barclays has the ability to offer

Airport Credit Facilities Since 2020

sizeable facilities and would be willing to do so for Broward County through any of our products to help fund its financing needs under its different credits/issuers at the lowest possible cost of capital.

Barclays' total liquidity outstanding to the Florida region is over \$200 million and includes credit facilities for the University of Miami and Gainesville Regional Utilities.

	Client	Size	Product
	JFK Airport New Terminal One	\$200	Term Loan
	Burbank Glendale Pasadena Airport Authority	\$109	LOC
A _C	Los Angeles Airport	\$327	LOC -CP
Active	San Francisco Airport - 2018B	\$140	LOC
10	San Francisco Airport - CP Series 5	\$136	LOC -CP
	San Francisco Airport - CP Series 3	\$108	LOC -CP
	Metropolitan Washington Airports Authority	\$143	LOC
m	Las Vegas Airport	\$106	LOC
ğ	Chicago Midway Airport	\$126	LOC
Expired	Chicago O'Hare Airport	\$101	LOC
<u>d</u>	Denver Airport	\$135	LOC -CP
	Los Angeles Airport	\$54	LOC -CP
	· · · · · · · · · · · · · · · · · · ·		

Barclays also has been

proud of our work with airports during the COVID-19 pandemic. Our firm has been a major credit provider to airports since the advent of COVID-19, having delivered over \$1.5 billion of credit capacity to airports. Within the first six months of the pandemic, when very few banks were willing to extend credit to airports, Barclays executed nearly \$600 million of credit facilities and made numerous formal and informal offers to other airports to provide liquidity.

11. Describe any client educational efforts your firm provides.

Barclays is an active and trusted partner of our clients and we take a broad view of the investment banking services we offer – often away from the issuance of bonds. We have consistently demonstrated an in depth knowledge of, and dedication to, our clients and have built a track record of service. Our employees are often invited to speak at educational conferences and panel discussions to share their knowledge. Barclays is the "go to" bank when it comes to municipal finance education and helping with the training of the new staff members of our clients. For example, when the Massachusetts Department of Transportation and Massachusetts Bay Transportation Authority had senior staffing changes,



Barclays spent considerable time reviewing all aspects of the municipal bond market with new officers, ranging from a market update to bond technicals and to the process of bringing a bond issue to market. Additionally, members of our team recently prepared an extensive presentation for the Texas Department of Transportation ahead of their bond closing which covered topics ranging from pricing 101, timeline and specifics of a pricing, underwriter terms and more.

Barclays also makes extensive use of DBC Finance when educating our clients. We were among the first users of the product in the early 1990s, and we continue to assist in the testing and evaluation of new features with DBC staff. We constantly educate our clients and financial advisors about what we learn to develop unique financing solutions for particularly complex financings, often with multiple goals, objectives or constraints similar to the County's. Our clients turn to us when seeking educational information, and the high quality of service we provide is rewarded with repeat business.

Furthermore, on a weekly basis, our Short-Term Products team provides market commentary to our client base. By staying on top of the market, Barclays consistently provides innovative ideas and refunding opportunities to our clients. For example, when drafts of the proposed Tax Cuts and Jobs Act were released on November 2, 2017, Barclays immediately analyzed the effects of the proposal on the debt portfolios of all our clients. Barclays suggested taking advantage of any advance refunding opportunities and ultimately, many of our clients accelerated their refundings.

12. Provide details on any active SEC or other regulatory investigations of your firm on a firm-wide basis. Provide the results of any past investigations or enforcement actions related to public finance or muni sales activities.

Barclays is engaged in various legal and regulatory matters in a number of jurisdictions. Barclays is subject to legal proceedings by and against Barclays which arise from time to time and also subject to enquiries and examinations, requests for information, audits, investigations and legal and other proceedings by regulators, governmental and other public bodies in connection with areas of banking and business activities in which Barclays is or has been engaged.

Information relating to legal and regulatory risks is set out in the Legal, Competition and Regulatory matters note to Barclays Bank's financial statements in our most recent Annual Report or Interim Results Announcement (as applicable). If a Barclays Bank quarterly Results Announcement has been released since the most recent Annual Report or Interim Results Announcement, this may contain additional information relating to such matters. In between Results Announcements, Barclays may from time to time make Regulatory News Service announcements containing information relating to a specific legal, competition or regulatory matter. Copies of Barclays Bank's Annual Report, Results Announcements, and Regulatory News Service Announcements are available on the Barclays Bank Investor Relations website in sections headed 'annual reports', 'results' and 'regulatory news' respectively: https://www.home.barclays/barclays-investor-relations.html. Additional Information relating to legal and regulatory risks is set out in the firm's Statement of Financial Condition (Audited) as of December 31, 2022. Copies can be viewed at: http://www.barcap.com/about-barclays-capital/our-firm/financialinformation/barclays-capital-inc-financial-reporting.html. Additionally, a FINRA BrokerCheck Report, proceedings the Firm has been involved in. http://www.finra.org/Investors/ToolsCalculators/BrokerCheck/. At the present time, however, we are not aware of any investigation or litigation directly applicable to this application or which would affect Barclays' ability to undertake the relevant activities.



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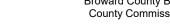
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Appendix A: Barclays Proposed Broward County Airport System Revenue Bond Scale





	Tax Exem	pt Non AMT	Scales, as o	of the close	of business	on August	8, 2023	
Maturity	MMD	Par Call	Coupon	Spread	YTW	Kick	YTM	Price
10/1/2024	3.300%		5.000%	20	3.50%	0	3.50%	101.424
10/1/2025	3.140%		5.000%	24	3.38%	0	3.38%	103.069
10/1/2026	2.970%		5.000%	26	3.23%	0	3.23%	104.981
10/1/2027	2.840%		5.000%	29	3.13%	0	3.13%	106.937
10/1/2028	2.790%		5.000%	30	3.09%	0	3.09%	108.744
10/1/2029	2.730%		5.000%	31	3.04%	0	3.04%	110.634
10/1/2030	2.680%		5.000%	34	3.02%	0	3.02%	112.368
10/1/2031	2.640%		5.000%	38	3.02%	0	3.02%	113.939
10/1/2032	2.650%		5.000%	39	3.04%	0	3.04%	115.293
10/1/2033	2.720%		5.000%	40	3.12%	0	3.12%	116.008
10/1/2034	2.800%	10/1/2033	5.000%	41	3.21%	13	3.34%	115.174
10/1/2035	2.880%	10/1/2033	5.000%	42	3.30%	22	3.52%	114.348
10/1/2036	3.000%	10/1/2033	5.000%	44	3.44%	28	3.72%	113.077
10/1/2037	3.140%	10/1/2033	5.000%	46	3.60%	31	3.91%	111.644
10/1/2038	3.230%	10/1/2033	5.000%	48	3.71%	33	4.04%	110.672
10/1/2039	3.270%	10/1/2033	5.000%	51	3.78%	35	4.13%	110.059
10/1/2040	3.310%	10/1/2033	5.000%	54	3.85%	36	4.21%	109.449
10/1/2041	3.360%	10/1/2033	5.000%	55	3.91%	37	4.28%	108.930
10/1/2042	3.420%	10/1/2033	5.000%	55	3.97%	37	4.34%	108.414
10/1/2043	3.460%	10/1/2033	5.000%	55	4.01%	38	4.39%	108.072
10/1/2044	3.490%							
10/1/2045	3.530%							
10/1/2046	3.570%							
10/1/2047	3.600%							
10/1/2048	3.630%	10/1/2033	5.000%	58	4.210%	36	4.569%	106.379
10/1/2049	3.650%							
10/1/2050	3.660%							
10/1/2051	3.670%							
10/1/2052	3.680%							
10/1/2053	3.690%	10/1/2033	5.000%	60	4.290%	36	4.645%	105.711





	Tax Ex	empt AMT So	cales, as of t	he close of	business on	August 8,	, 2023	
Maturity	MMD	Par Call	Coupon	Spread	YTW	Kick	YTM	Price
10/1/2024	3.300%		5.000%	60	3.90%	0	3.90%	101.041
10/1/2025	3.140%		5.000%	63	3.77%	0	3.77%	102.318
10/1/2026	2.970%		5.000%	70	3.67%	0	3.67%	103.715
10/1/2027	2.840%		5.000%	75	3.59%	0	3.59%	105.179
10/1/2028	2.790%		5.000%	80	3.59%	0	3.59%	106.370
10/1/2029	2.730%		5.000%	86	3.59%	0	3.59%	107.521
10/1/2030	2.680%		5.000%	91	3.59%	0	3.59%	108.631
10/1/2031	2.640%		5.000%	98	3.62%	0	3.62%	109.484
10/1/2032	2.650%		5.000%	102	3.67%	0	3.67%	110.091
10/1/2033	2.720%		5.000%	105	3.77%	0	3.77%	110.146
10/1/2034	2.800%	10/1/2033	5.000%	104	3.84%	8	3.92%	109.536
10/1/2035	2.880%	10/1/2033	5.000%	102	3.90%	14	4.04%	109.017
10/1/2036	3.000%	10/1/2033	5.000%	98	3.98%	18	4.16%	108.329
10/1/2037	3.140%	10/1/2033	5.000%	95	4.09%	20	4.29%	107.391
10/1/2038	3.230%	10/1/2033	5.000%	93	4.16%	22	4.38%	106.799
10/1/2039	3.270%	10/1/2033	5.250%	93	4.20%	30	4.50%	108.483
10/1/2040	3.310%	10/1/2033	5.250%	94	4.25%	31	4.56%	108.060
10/1/2041	3.360%	10/1/2033	5.250%	90	4.26%	33	4.59%	107.975
10/1/2042	3.420%	10/1/2033	5.250%	90	4.32%	33	4.65%	107.470
10/1/2043	3.460%	10/1/2033	5.250%	90	4.36%	34	4.70%	107.135
10/1/2044	3.490%							
10/1/2045	3.530%							
10/1/2046	3.570%							
10/1/2047	3.600%							
10/1/2048	3.630%	10/1/2033	5.250%	93	4.56%	31	4.868%	105.479
10/1/2049	3.650%							
10/1/2050	3.660%							
10/1/2051	3.670%							
10/1/2052	3.680%							
10/1/2053	3.690%	10/1/2033	5.250%	92	4.61%	31	4.925%	105.070





Appendix B: Barclays Transaction Experience Since 2018

Sale Date Issuer (Issue Description	Par Amount Bid Type (USD Millions)	Barclays Role	Moody's Underlying Long Term Rating	S&P's Underlying Long Term Rating	Fitch's Underlying Long Term Rating	Main Use of Proceeds - SDC (code)	Reported Gross (per thousand)
1/5/2018 New Jer		State Lease Revenue Bonds 2018 Series A & C	356.61 Negotiated Bid	Co-Manager	Baa1;Baa1;Baa1;Baa1; Baa1;Baa1;Baa1	BBB+;BBB+;BBB+;BBB+;BB B+;BBB+;BBB+	A-;A-;A-;A-;A-;A-	Government Buildings	
1/5/2018 New Jer	ersey Econ Dev Auth	State Lease Revenue Bonds 2018 Series B	19.08 Negotiated Bid	Co-Manager	Baa1	BBB+	A-	Government Buildings	
1/16/2018 Houston	n City-Texas	Comb Util Sys Comm Paper Notes Series B- 3	75.00 Negotiated Bid	Lead Manager;Remarketing Agent	NR 3	NR	NR	Combined Utilities	
1/17/2018 Orlando	o Utilities ission (OUC)	Utility System Revenue Bonds Series 2018	150.22 Negotiated Bid	Co-Manager	Aa2	AA	AA	Combined Utilities	
1/24/2018 Massacl	chusetts School	Sub Dedicated Sales Tax Bonds 2018	195.00 Negotiated Bid	Co-Manager	Aa3	AA	AA+	Primary & Secondary	
Bldg Aut	chusetts School	Series A Sub Dedicated Sales Tax Bonds 2018	200.00 Negotiated Bid	Co-Manager	Aa3;Aa3	AA;AA	AA+;AA+	Education Primary & Secondary	
Bldg Aut 1/25/2018 Connect		Series A Special Tax Obligation Bonds 2018 Series A	800.00 Negotiated Bid	Co-Manager	NR	AA	A+	Education Toll Roads, Highways &	
1/30/2018 Hawaii		General Obligation Bonds 2018 Series FU	50.00 Negotiated Bid	Co-Manager	Aa1	AA+	AA	Streets General Purpose/ Public Imp	
1/30/2018 Hawaii		General Obligation Bonds 2018 Series FT	631.22 Negotiated Bid	Co-Manager	Aa1	AA+	AA	General Purpose/ Public Imp	
1/30/2018 Hawaii		General Obligation Bonds 2018 Series FV	93.79 Negotiated Bid	Co-Manager	Aa1	AA+	AA	General Purpose/ Public Imp	
2/7/2018 Connect	cticut Housing & Fin	Housing Mortgage Fin Prog Bonds 2018	48.55 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA;AAA	NR;NR;NR;NR	Single Family Housing	
Auth (CI	CHFA)	Subseries A-1 Housing Mortgage Fin Prog Bonds 2018	69.55 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
Auth (CI 2/13/2018 Colorado	CHFA)	Subseries A-2 Homeownership Class I Bonds Series 2018	73.12 Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
(CHFA) 2/16/2018 Chicago)	AA Educational Purposes TANs Series 2017 H	105.27 Negotiated Bid	Sole Manager	NR	NR	NR	Primary & Secondary	
		Sr Ln Dedicated Tax Rev Ref Bonds Series	57.52 Negotiated Bid	Co-Manager	Aa3;Aa3	A+:A+	AA+;AA+	Education Civic & Convention Centers	
Sports A 2/22/2018 Washing	Au	2018 B Sr Ln Dedicated Tx Rev Ref Bonds Series	275.54 Negotiated Bid	Co-Manager	Aa3	A+	AA+	Civic & Convention Centers	
Sports A	Au	2018 A Revenue Bonds Series 2018 B		Lead Manager	Aa2:Aa2	AA-:AA-			
2/22/2018 Illinois F 2/22/2018 Illinois F	Finance Authority	Revenue Bonds Series 2018 A	50.00 Negotiated Bid 114.71 Negotiated Bid	Lead Manager	Aa2;Aa2;Aa2	AA-;AA-;AA-	AA+;AA+ AA+;AA+;AA+	Higher Education Higher Education	
2/23/2018 New Yor		General Obligation Bonds Series E Sub E-1	700.00 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA;AA;AA	AA;AA;AA	General Purpose/ Public Imp	
2/23/2018 New Yor		General Obligation Bonds SubSer A-6&J- 4&F-3	194.26 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA;AA;AA	AA;AA;AA	General Purpose/ Public Imp	
2/28/2018 Los Ang Airports		Subordinate Revenue Bonds 2018 Series A	426.48 Negotiated Bid	Lead Manager	A1;A1;A1;A1	AA-;AA-;AA-	AA-;AA-;AA-	Airports	
3/6/2018 Californi		GO & Various Purpose Ref Bonds	212.38 Negotiated Bid	Co-Manager	Aa3;Aa3	AA-;AA-	AA-;AA-	General Purpose/ Public Imp	
3/6/2018 Californi	nia	GO & Various Purpose Ref Bonds	1,968.93 Negotiated Bid	Co-Manager	Aa3;Aa3	AA-;AA-	AA-;AA-	General Purpose/ Public Imp	
3/6/2018 Colorado (CHFA)		Multi-Family Project Bonds 2018 Series A-1	56.26 Negotiated Bid	Lead Manager	Aaa;Aaa	AAA;AAA	NR;NR	Multi Family Housing	
3/6/2018 Colorado (CHFA)	do Hsg & Fin Auth	Multi-Family Project Bonds 2018 Series A-2	35.00 Negotiated Bid	Sole Manager:Remarketing	Aaa	AAA	NR	Multi Family Housing	
3/9/2018 Michigan		Cinala Esmilu Martagan Bay Banda 2018	120 00 Negotioted Rid	Agent Lead Manager	,		ND-ND-ND	Cinala Family Hausing	
(MSHDA	DA)	Single-Family Mortgage Rev Bonds 2018 Series A	120.00 Negotiated Bid		Aa2;Aa2;Aa2	AA+;AA+;AA+	NR;NR;NR	Single Family Housing	
3/9/2018 Michigan (MSHDA		Single-Family Mortgage Rev Bonds 2018 Series B	50.00 Private Bid	Sole Manager;Remarketing	Aa2	AA+	NR	Single Family Housing	
3/14/2018 Boise St		General Revenue Project Bonds Series	18.47 Negotiated Bid	Agent Sole Manager	Aa3	A+	NR	Higher Education	
3/15/2018 Miami-D	Dade Co	2018 A Revenue Bonds Series 2018 A	232.72 Negotiated Bid	Lead Manager	A3;A3;A3;A3	A-;A-;A-	NR;NR;NR;NR	Higher Education	
3/15/2018 Miami-D	ional Facs Auth Dade Co	Revenue Bonds Series 2018 B	17.29 Negotiated Bid	Lead Manager	A3	A-	NR	Higher Education	
Education 3/15/2018 University	ional Facs Auth sity of Connecticut	Special Oblig Student Fee Bonds 2018	141.73 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	NR;NR;NR	Higher Education	
3/15/2018 Wiscons		Series A Power Supply System Rev Bonds Series	41.34 Negotiated Bid	Co-Manager	A1	A	A+	Public Power	
(WPPI) 3/16/2018 NYC Tra) Energy	2018 A Building Aid Revenue Bonds 18 Ser S 3-4	909.48 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2	AA;AA;AA;AA	AA;AA;AA;AA	Primary & Secondary	
Auth 3/16/2018 NYC Tra		⋐ 4A Building Aid Revenue Bonds 2018 Series S-	92.98 Negotiated Bid	Co-Manager	Aa2	AA	AA	Education Primary & Secondary	
Auth 3/20/2018 Iowa Fin		Refunding Bonds Series 2018 A	82.33 Private Bid	Sole Sole	NR NR	NR NR	NR NR	Education General Acute Care Hospital	
3/20/2016 IUWa FII	mance Authority	Returning Borius Series 2016 A	62.33 FIVALE DIU	Manager;Remarketing Agent		INI	NK.	General Acute Care nospital	
3/22/2018 Alameda	da Co Jt Powers	Lease Revenue Bonds Series 2018	73.50 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	General Acute Care Hospital	
Auth 3/27/2018 Massaci		Revenue Bonds Series 2018	21.87 Negotiated Bid	Sole Manager	Baa2;Baa2;Baa2	BBB+;BBB+;BBB+	NR;NR;NR	Higher Education	
	acco Settlement Fin	Tobacco Settlement Bonds Sr⋐ Ser	3,146.66 Negotiated Bid	Co-Manager	NR;NR;NR;NR	A;BBB+;BBB+;BBB	NR;NR;NR;NR	General Purpose/ Public Imp	
Corp 4/5/2018 Universi		2018 A&B Revenue Bonds Series 2018	200.00 Negotiated Bid	Lead Manager	Aa1;Aa1	AA+;AA+	NR;NR	Higher Education	
4/5/2018 NYC Ho		Multi-Family Housing Rev Bonds 2018 Series A-1	50.73 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2	AA+;AA+;AA+;AA+	NR;NR;NR;NR	Multi Family Housing	
4/5/2018 NYC Ho		Multi-Family Housing Rev Bonds 2018 Series B-1	65.48 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
4/5/2018 NYC Ho		Multi-Family Housing Rev Bonds 2018 Series B-2	100.00 Negotiated Bid	Lead Manager	Aa2	AA+	NR	Multi Family Housing	
4/5/2018 NYC Mu Auth	Iunicipal Water Fin	Wtr & Swr Sys 2nd Gen Resoln Bond Series EE	287.94 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
	Iunicipal Water Fin	Wtr & Swr Sys 2nd Gen Resoln Bond Series EE	170.98 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	AA+;AA+	Water & Sewer Facilities	
4/10/2018 Californi	nia Statewide CDA	Revenue Bonds Series 2018	100.00 Negotiated Bid	Sole Manager	NR;NR;NR;NR	A-;A-;A-	NR;NR;NR;NR	General Acute Care Hospital	
4/11/2018 Colorado	do Hsg & Fin Auth	Single Family Mtg Class I Bonds 2018	21.24 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
(CHFA) 4/11/2018 Colorado	do Hsg & Fin Auth	Series A Single Family Mtg Class I Bonds 2018	36.25 Negotiated Bid	Lead Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
(CHFA) 4/11/2018 Colorado	do Hsg & Fin Auth	Series B-1 Single Family Mtg Class II Bonds 2018	30.00 Negotiated Bid	Sole	Aa2	AA	NR	Single Family Housing	
(CHFA)		Series B-2		Manager;Remarketing Agent					
4/11/2018 Maine S Authorite		Mortgage Purchase Bonds 2018 Series A	35.00 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
4/42/2040 N	ork City-New York	General Obligation Bonds Series F Subser F- 1	850.00 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA;AA;AA	AA;AA;AA	General Purpose/ Public Imp	
4,12,2018 New Yo	nia	Various GO & Refunding Bonds	2,147.00 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	AA-;AA-;AA-	General Purpose/ Public Imp	
4/12/2018 New Yor 4/17/2018 Californi		Public Utility Sr Lien Rev Bonds Series 2018	100.00 Negotiated Bid	Lead Manager	Aa1;Aa1	AAA;AAA	NR;NR	Water & Sewer Facilities	
4/17/2018 Californi 4/17/2018 District of				Lead Manager	Aa1;Aa1;Aa1	AAA;AAA;AAA	NR;NR;NR	Water & Sewer Facilities	
4/17/2018 Californi 4/17/2018 District of Swr Au 4/17/2018 District of	of Columbia Wtr &	A Public Utility Sr Lien Rev Bonds Series 2018 B	200.00 Negotiated Bid		Baa3;Baa3;Baa3	NR;NR;NR	BBB-;BBB-;BBB-	Airports	
4/17/2018 Californi 4/17/2018 District of Swr Au 4/17/2018 District of Swr Au 4/24/2018 New Yor	of Columbia Wtr & ork Transportation	B Special Facilities Revenue Bonds Series	200.00 Negotiated Bid 1,383.50 Negotiated Bid	Co-Manager		A+	AA-	General Acute Care Hospital	
4/17/2018 Californi 4/17/2018 District of Swr Au 4/17/2018 District of Swr Au 4/24/2018 New Yor Develop 4/25/2018 Missouri	of Columbia Wtr & or Columbia Wtr & Col	B Special Facilities Revenue Bonds Series 2018 Health Facilities Revenue Bonds Series		Co-Manager Lead Manager	A1	AT			
4/17/2018 Californi 4/17/2018 District Swr Au 4/17/2018 District Swr Au 4/17/2018 New Yor Develop 4/25/2018 Missouri 4/25/2018 Missouri	of Columbia Wtr & I ork Transportation pment Corporation in HIth & Ed Facs ity III HIth & Ed Facs	B Special Facilities Revenue Bonds Series 2018 Health Facilities Revenue Bonds Series 2018 C Health Facilities Revenue Bonds Series	1,383.50 Negotiated Bid		A1 A1;A1	A+;A+	AA-;AA-	General Acute Care Hospital	
4/17/2018 Californi 4/17/2018 District of Swr Au 4/17/2018 District of Swr Au 4/24/2018 New You Develop 4/25/2018 Missour Authorit 4/25/2018 Missour	of Columbia Wtr & I of Columbia Wtr & I ork Transportation preent Corporation iri Hith & Ed Facs ity Iri Hith & Ed Facs ity Iri Hith & Ed Facs	B Special Facilities Revenue Bonds Series 2018 Health Facilities Revenue Bonds Series 2018 C Health Facilities Revenue Bonds Series 2018 A Health Facilities Revenue Bonds Series	1,383.50 Negotiated Bid 49.15 Negotiated Bid	Lead Manager Lead Manager Lead	A1;A1 A1;A1;A1		AA-;AA- AA-;AA-;AA-	General Acute Care Hospital General Acute Care Hospital	
4/17/2018 Californi 4/17/2018 District 5wr Au 4/17/2018 District 5wr Au 4/24/2018 New You Develop 4/25/2018 Missour 4/25/2018 Missour 4/25/2018 Missour Authorit 4/25/2018 Missour Authorit	of Columbia Wtr & of Columbia Wtr & of Transportation pri Hith & Ed Facs tity ri Hith & Ed Facs tity	B Special Facilities Revenue Bonds Series 2018 Health Facilities Revenue Bonds Series 2018 C Health Facilities Revenue Bonds Series 2018 A Health Facilities Revenue Bonds Series 2018 D E & F	1,383.50 Negotiated Bid 49.15 Negotiated Bid 73.43 Negotiated Bid 154.01 Negotiated Bid	Lead Manager Lead Manager Lead Manager;Remarketing Agent	A1;A1 A1;A1;A1	A+;A+ A+;A+;A+	AA-;AA-;AA-	General Acute Care Hospital	
4/17/2018 Californi 4/17/2018 District of Swr Au 4/17/2018 District of Swr Au 4/24/2018 New You 1/25/2018 Missour 4/25/2018 Missour 4/25/2018 Missour Authorit 4/25/2018 Wissour Authorit 4/25/2018 Wissour Auth (W	of Columbia Wtr & of Columbia Wtr & of Columbia Wtr & of Chimbia Wtr & of Chimbi	B Special Facilities Revenue Bonds Series 2018 Health Facilities Revenue Bonds Series 2018 C 1018 C Health Facilities Revenue Bonds Series 2018 D 1018 D 1018 E 1018 D 1018 D 101	1,383.50 Negotiated Bid 49.15 Negotiated Bid 73.43 Negotiated Bid 154.01 Negotiated Bid 40.61 Negotiated Bid	Lead Manager Lead Manager Lead Manager;Remarketing Agent Lead Manager	A1;A1 A1;A1;A1 3 A1	A+;A+ A+;A+;A+	AA-;AA-;AA- AA-	General Acute Care Hospital General Acute Care Hospital	
4/17/2018 Californi 4/17/2018 District c Swr Au 4/17/2018 District c Swr Au 4/17/2018 District c 4/2/2018 New Yo Develop 4/25/2018 Missour Authorit 4/25/2018 Missour 4/25/2018 Missour 4/25/2018 Missour 4/25/2018 Wiscons	of Columbia Wtr & 1 of Columbia Wtr & 1 or Columbia Wtr & 1 or Corporation or Hith & Ed Facs Ity ri Hith & Ed Facs Ity ri Hith & Ed Facs Ity Wtr Hith & Ed Fac WHEFA) Wrighia Rector & Virginia Rector &	B Special Facilities Revenue Bonds Series 2018 Health Facilities Revenue Bonds Series 2018 C Health Facilities Revenue Bonds Series 2018 C Health Facilities Revenue Bonds Series 2018 A Health Facilities Revenue Bonds Series 2018 D E & F Health Facilities Revenue Bonds Series	1,383.50 Negotiated Bid 49.15 Negotiated Bid 73.43 Negotiated Bid 154.01 Negotiated Bid 40.61 Negotiated Bid 200.00 Negotiated Bid	Lead Manager Lead Manager Lead Manager;Remarketing Agent	A1;A1 A1;A1;A1	A+;A+ A+;A+;A+ A+ AAA;AAA	AA-;AA-;AA-	General Acute Care Hospital	
4/17/2018 Californi 4/17/2018 District Swr Au 4/17/2018 District Swr Au 4/17/2018 District Swr Au 4/24/2018 New Yo Develop 4/25/2018 Missour 4/25/2018 Missour 4/25/2018 Wissour Authorit 4/25/2018 Wissour Authorit 4/25/2018 Disv of 4/25/2018 Disv of	of Columbia Wtr & of Columbia Wtr & of Columbia Wtr & ork Transportation or Hith & Ed Facs ity will Hith & Ed Fac will Hith &	B Special Facilities Revenue Bonds Series 2018 Health Facilities Revenue Bonds Series 2018 C 2018 C 2018 C 2018 C 2018 A Health Facilities Revenue Bonds Series 2018 A Feeth Facilities Revenue Bonds Series 2018 D E Health Facilities Revenue Bonds Series 2018 D E General Revenue Pledge Bonds Series	1,383.50 Negotiated Bid 49.15 Negotiated Bid 73.43 Negotiated Bid 154.01 Negotiated Bid 40.61 Negotiated Bid	Lead Manager Lead Manager Lead Manager;Remarketing Agent Lead Manager	A1;A1 A1;A1;A1 3 A1	A+;A+ A+;A+;A+	AA-;AA-;AA- AA-	General Acute Care Hospital General Acute Care Hospital	
4/17/2018 Californi 4/17/2018 District Swr Au 4/17/2018 District Swr Au 4/17/2018 District Swr Au 4/24/2018 New Yor Develop 4/25/2018 Missour 4/25/2018 Missour 4/25/2018 Missour 4/25/2018 Wiscon Authori 4/25/2018 Wiscon Authori 4/25/2018 Univ of 4/25/2018 Connect Authori 4/25/2	of Columbia Wtr & or Columbia Wtr & or Columbia Wtr & or Corporation or hithin & Ed Facs by this A Ed Facs by the Columbia Wtr & Ed Facs by the Columbia Wtr	B Special Facilities Revenue Bonds Series 2018 Health Facilities Revenue Bonds Series 2018 C	1,383.50 Negotiated Bid 49.15 Negotiated Bid 73.43 Negotiated Bid 154.01 Negotiated Bid 40.61 Negotiated Bid 200.00 Negotiated Bid	Lead Manager Lead Manager Lead Manager;Remarketing Agent Lead Manager Lead Manager	A1;A1 A1;A1;A1 3 A1 Aaa;Aaa	A+;A+ A+;A+;A+ A+ AAA;AAA	AA-;AA-; AA- AAA;AAA	General Acute Care Hospital General Acute Care Hospital Higher Education	
4/17/2018 Californi 4/17/2018 District 5 War Au 4/17/2018 District 5 War Au 4/17/2018 District 5 War Au 4/24/2018 New You Develop 4/25/2018 Missour 4/25/2018 Missour 4/25/2018 Missour 4/25/2018 Missour 4/25/2018 Wiscon Authori 4/25/2018 Univ of 4/25/2018 Connect Auth Col 4/25/2018 Connect Auth Col 4/25/2018 Connect Auth (CI 4/25/2018 Connect A	of Columbia Wtr & Jork Transportation pment Corporation in Hith & Ed Facs Ity Wighian Rector & State Ity In Hith & In Hith & Ity In	B Special Facilities Revenue Bonds Series 2018 Pleatiff Facilities Revenue Bonds Series 2018 C 2018 C 2018 C 2018 C 2018 C 2018 C 2018 A 2018 C 2018 A 2018 D 2018 A 2018 D 20 F 2018 D 20 F 2018 D 20 F 2018 D	1,383.50 Negotiated Bid 49.15 Negotiated Bid 73.43 Negotiated Bid 154.01 Negotiated Bid 40.61 Negotiated Bid 200.00 Negotiated Bid 62.45 Negotiated Bid	Lead Manager Lead Manager Lead Manager, Remarketing Agent Lead Manager Lead Manager Co-Manager	A1;A1 A1;A1;A1 A1 Aaa;Aaa Aaa;Aaa	A+;A+ A+;A+;A+ A+ AAA;AAA AAA;AAA	AA-;AA-;AA- AAA;AAA NR;NR;NR	General Acute Care Hospital General Acute Care Hospital Higher Education Single Family Housing	
4/17/2018 Californi 4/17/2018 District Swr Au 4/17/2018 District Swr Au 4/17/2018 District Swr Au 4/24/2018 New You Develop 4/25/2018 Missour Authorit 4/25/2018 Missour Authorit 4/25/2018 Wiscon Auth (V 4/25/2018 Wiscon Auth (V 4/25/2018 Connect Auth (V 4/25/2018 Connect Auth (C 4/25/2018 Connect Auth (C 4/25/2018 Connect Auth (C 4/25/2018 Connect Auth (C 4/25/2018 Connect Auth (C) 4/25/2018 Connect Auth (C) 4/25/2018 Connect Auth (C) 4/25/2018 Missour	of Columbia Wtr & jork Transportation pment Corporation pment Corporation in Hith & Ed Facs War Hith & Ed Facs Warghal Rector & Scicut Housing & Fin Hith & Ed Fac White Fac Warghal Rector & Scicut Housing & Fin Hith & Ed Fac White Fac Warghal Rector & Scicut Housing & Fin Hith & Ed Fac White Fac Warghal Rector & Scicut Housing & Fin Hith & Ed Fac White Fac Warghal Rector & Scicut Housing & Fin Hith & Ed Fac Warghal Rector & Scicut Housing & Fin Hith & Ed Fac Warghal Rector & Science &	B Special Facilities Revenue Bonds Series 2018 Health Facilities Revenue Bonds Series 2018 C 2018 C 2018 C 2018 C 2018 C 2018 C 2018 A Enaclities Revenue Bonds Series 2018 D E & F Health Facilities Revenue Bonds Series 2018 D E & F Health Facilities Revenue Bonds Series 2018 D E Series 2018 B General Revenue Piedge Bonds Series 2018 A A B Housing Mtg Finance Program Bonds 18 Ser 8 Dustee F Housing Mtg Finance Program Bonds 18 Ser 8 Bustee F Housing Mtg Finance Program Bonds 18 Ser 8 Bustee F 18	1,383.50 Negotiated Bid 49.15 Negotiated Bid 73.43 Negotiated Bid 154.01 Negotiated Bid 40.61 Negotiated Bid 200.00 Negotiated Bid 62.45 Negotiated Bid 23.31 Negotiated Bid	Lead Manager Lead Manager Lead Manager: Lead Manager: Agent Lead Manager Lead Manager Co-Manager Co-Manager	A1;A1 A1;A1;A1 A1 Aaa;Aaa Aaa;Aaa;Aaa Aaa	A+:A+ A+:A+:A+ A+ AA:AAAA AAA:AAA AAA	AA-;AA-;AA- AAA;AAA NR;NR;NR	General Acute Care Hospital General Acute Care Hospital Higher Education Single Family Housing Single Family Housing	

5/3/2018	Norfolk City Eco Dev Auth	Hospital Facilities Rev Ref Bonds Series	50.00 Negotiated Bid	Lead	Aa2	AA	NR	General Acute Care Hospital	1.
		2018 A		Manager;Remarketing Agent					
		RANs Series 2018 R3	110.00 Competitive Bid	Lead Manager	NR;NR	NR;NR	NR;NR	General Purpose/ Public Imp	
5/8/2018	Albemarle Co Economic Dev Auth	Hospital Facilities Rev Ref Bonds Series 2018 A & B	154.55 Negotiated Bid	Lead Manager;Remarketing	Aa2;Aa2	AA;AA	NR;NR	General Acute Care Hospital	2.
5/9/2018	Massachusetts	GO Refunding Bonds 2018 Series B	346.37 Negotiated Bid	Agent Co-Manager	Aa1	AA	AA+	General Purpose/ Public Imp	
5/9/2018	Massachusetts Wtr	General Revenue Bonds 2018 Series B	83.64 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	AA+;AA+	Water & Sewer Facilities	
5/9/2018	Resources Auth Massachusetts Wtr	General Revenue Bonds 2018 Series B	23.94 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
5/9/2018	Resources Auth Massachusetts Wtr	General Revenue Refunding Bonds 2018	21.90 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
	Resources Auth Eastern Michigan	Series C General Revenue Bonds Series 2018 A	78.27 Negotiated Bid	Sole Manager	A2;A2	NR;NR	NR;NR	Higher Education	4.
	University					NR .			
	Eastern Michigan University	General Revenue Refunding Bonds Series 2018 B	155.00 Negotiated Bid	Sole Manager	A2		NR	Higher Education	
	San Francisco City & Co Airport Comm	Revenue Bonds 2nd Series 2018 F	7.03 Negotiated Bid	Co-Manager	A1	A+	A+	Airports	
5/16/2018	San Francisco City & Co Airport Comm	Revenue & Refunding Bonds 2nd Series 2018 D&G	758.47 Negotiated Bid	Co-Manager	A1;A1;A1	A+;A+;A+;A+	A+;A+;A+;A+	Airports	
	San Francisco City & Co Airport Comm	Revenue Bonds 2nd Series 2018 E	116.28 Negotiated Bid	Co-Manager	A1	A+	A+	Airports	
5/17/2018	Chicago City BOE	Unltd Tx GO Ref Dedicated Bonds Series 2018 A & B	562.25 Negotiated Bid	Co-Manager	NR;NR;NR	B;B;B	BB-;BB-;BB-	Primary & Secondary Education	8.
5/22/2018	Regents of the University of California	General Revenue Bonds 2018 Series AZ	945.81 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;A a2:Aa2:A2	AA;AA;AA;AA;AA;AA;AA	AA;AA;AA;AA;AA; AA;AA	Higher Education	
	Regents of the University	General Revenue Bonds 2018 Series BA	281.90 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA;AA;AA	AA;AA;AA	Higher Education	
	of California Regents of the University	Revenue Bonds 2018 Series O	736.22 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Higher Education	
5/23/2018	of California Regents of the University	Revenue Bonds 2018 Series P	95.08 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Higher Education	
	of California Georgia Housing Finance	Single Family Mortgage Bonds 2018 Series	110.00 Negotiated Bid	Co-Manager	NR;NR;NR;NR	AAA;AAA;AAA;AAA	NR;NR;NR;NR;NR	Single Family Housing	7
	Authority	A Revenue Bonds 2nd Series 2018 B			NR .	NR .	NR.		0
/30/2018	San Francisco City & Co Airport Comm	Revenue Bonds 2nd Series 2018 B	138.17 Negotiated Bid	Sole Manager;Remarketing Agent;Credit	NK	NK	NK	Airports	0
/31/2018	Metro Washington Airports	Airport System Rev & Ref Bonds Series	558.43 Negotiated Bid	Enhancer Lead Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	AA-;AA-;AA-	Airports	2
	Auth Connecticut Hlth & Ed	2018 A Revenue Bonds Series 2018 A	67.61 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Higher Education	3
	Facs Auth (CHEFA)	Mortgage Purchase Bonds 2018 Series B		Co-Manager	Aa1	AA+	NR		
	Maine State Housing Authority		40.00 Negotiated Bid					Single Family Housing	
	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 193	17.50 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	NR;NR;NR	Single Family Housing	3
	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 194	0.56 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	(
/31/2018	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 195	16.12 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	NR;NR	Single Family Housing	3
6/5/2018	Port of Seattle-Washington	Intermediate Lien Revenue Bonds Series 2018 A & B	555.64 Negotiated Bid	Co-Manager	A1;A1;A1;A1	A+;A+;A+;A+	AA-;AA-;AA-;AA-	Airports	:
	Lincoln City-Nebraska	Revenue Bonds Series 2018	121.21 Negotiated Bid	Co-Manager	NR	AA	AA	Public Power	
	Connecticut	General Obligation Bonds 2018 Series C-4	14.26 Negotiated Bid	Co-Manager	A1	A	A+	Economic Development	-
6/6/2018	Connecticut	General Obligation Bonds 2018 Series C-1	30.02 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	(
6/6/2018	Connecticut	General Obligation Bonds 2018 Series C-5	46.24 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
6/6/2018	Connecticut	GO Refunding Bonds 2018 Series D	92.11 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	3
6/6/2018	Connecticut	General Obligation Bonds 2018 Series C-3	224.49 Negotiated Bid	Co-Manager	A1	A	A+	Primary & Secondary Education	2
	Lower Colorado River	Transmission Contract Ref Bonds Series	191.14 Negotiated Bid	Co-Manager	NR;NR;NR	A;A;A	A+;A+;A+	Public Power	1
6/6/2018	Authority (LCRA) Lower Colorado River	2018 Transmission Contract Ref Bonds Series	100.30 Negotiated Bid	Co-Manager	NR	A	A+	Public Power	(
6/6/2018	Authority (LCRA) Sacramento MUD (SMUD)	2018 Electric Revenue Refunding Bonds 2018	165.52 Negotiated Bid	Co-Manager	NR	AA	AA	Public Power	2
	Massachusetts Housing	Series F Housing Bonds 2018 Series A	27.48 Negotiated Bid	Lead Manager	Aa2;Aa2;Aa2;Aa2;Aa2	AA;AA;AA;AA	NR;NR;NR;NR	Single Family Housing	8
	Fin Agcy Massachusetts Housing	Housing Bonds 2018 Series B	25.00 Private Bid	Sole	Aa2	AA	NR	Single Family Housing	3
	Fin Agcy			Manager;Remarketing Agent					
6/6/2018	Connecticut	General Obligation Bonds 2018 Series C-2	85.00 Negotiated Bid	Co-Manager	A1	A	A+	Water & Sewer Facilities	(
	Univ of North Carolina Bd of Gov	General Revenue Refunding Bonds Series 2018	87.17 Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	
	Utah State Board of	General Revenue Bonds Series 2018 A	80.04 Negotiated Bid	Lead Manager	Aa1;Aa1	AA+;AA+	NR;NR	Higher Education	
6/12/2018	Regents Cleveland City-Ohio	Public Power Sys Rev Ref Bonds Series	47.25 Negotiated Bid	Lead Manager	A3;A3	A-;A-	NR;NR	Public Power	
	Michigan St Hsg Dev Au	2018 Rental Housing Revenue Bonds 2018	165.64 Negotiated Bid	Co-Manager	NR;NR;NR;NR;NR	AA;AA;AA;AA;AA	NR;NR;NR;NR;NR;NR	Multi Family Housing	
	(MSHDA) Michigan St Hsg Dev Au	Series A Rental Housing Revenue Bonds 2018	19.82 Negotiated Bid	Co-Manager	NR	AA	NR	Multi Family Housing	(
	(MSHDA) Michigan St Hsg Dev Au	Series A Rental Housing Revenue Bonds 2018	12.93 Negotiated Bid	Co-Manager	NR:NR	AA;AA	NR:NR	Multi Family Housing	
	(MSHDA)	Series B Multi-Family Housing Rev Bonds 2018	406.89 Negotiated Bid	Co-Manager	,		,	· · · · · ·	
or 13/2018	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2018 Series C-1-A&B	400.09 Negotiated Bid	Ou-maildyel	a2;Aa2;Aa2;Aa2;Aa	. AA+;AA+;AA+;AA+;AA+;AA+; AA+;AA+;AA+;AA+	;NR;NR;NR;NR;NR	mont raining riousing	
6/13/2018	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2018	75.00 Negotiated Bid	Co-Manager	2 Aa2;Aa2;Aa2	AA+;AA+;AA+	NR;NR;NR	Multi Family Housing	
6/13/2018	NYC Housing Dev Corp	Series D Multi-Family Housing Rev Bonds 2018	124.94 Negotiated Bid	Co-Manager	Aa2;Aa2	AA+;AA+	NR;NR	Multi Family Housing	
	NYC Housing Dev Corp	Series C-2-A&B Multi-Family Housing Rev Bonds 2018	18.72 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
	Atlanta City-Georgia	Series C-2-A Water & Wstwtr Rev & Ref Bonds Series	51.21 Negotiated Bid	Co-Manager	Aa2	AA-	NR	Water & Sewer Facilities	
		2018 A							
	NYC Municipal Water Fin Auth	Water & Sewer System Rev Bonds 2018 Series FF	373.60 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
5/14/2018	Metropolitan Transportation Authority	Transportation Revenue BANs Subser 2018 B-1&2	1,120.00 Competitive Bid	Lead Manager		NR;NR;NR;NR;NR;NR;NR;NR;NR	NR;NR;NR;NR;NR;NR;NR;NR;NR;NR;NR;NR;NR;N	Mass Transportation	
				Lead Manager	NR;NR;NR NR:NR:NR:NR:NR:	NR;NR;NR;NR;NR;NR;NR;N	R;NR;NR;NR NR:NR:NR:NR:NR	Mass Transportation	
6/14/2018	Metropolitan Transportation	Transportation Revenue BANs Subser 2018	480.00 Competitive Bid				;NR;NR;NR;NR;NR;N		
	Metropolitan Transportation Authority	Transportation Revenue BANs Subser 2018 B-1&2	480.00 Competitive Bid			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	R·NR·NR·NR		
	Authority Massachusetts Dev		480.00 Competitive Bid 61.01 Negotiated Bid	Lead Manager	NR;NR;NR A1	NR	R;NR;NR;NR NR	Higher Education	
6/20/2018	Authority Massachusetts Dev Finance Agcy Pennsylvania Turnpike	B-182 Revenue Bonds Series 2018 A Var Rate Turnpike Revenue Bonds Series A-			NR;NR;NR			Toll Roads, Highways &	
6/20/2018 6/20/2018 6/20/2018	Authority Massachusetts Dev Finance Agcy Pennsylvania Turnpike Commission Pennsylvania Turnpike	B-182 Revenue Bonds Series 2018 A Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Turnpike Revenue Bonds Series A-2 of	61.01 Negotiated Bid	Lead Manager	NR;NR;NR A1	NR	NR	Toll Roads, Highways & Streets Toll Roads, Highways &	
6/20/2018 6/20/2018 6/20/2018	Authority Massachusetts Dev Finance Agcy Pennsylvania Tumpike Commission	B-182 Revenue Bonds Series 2018 A Var Rate Turnpike Revenue Bonds Series A- 1 of 2018	61.01 Negotiated Bid 25.00 Negotiated Bid	Lead Manager Lead Manager	NR;NR;NR A1	NR NR	NR A+	Toll Roads, Highways & Streets Toll Roads, Highways & Streets	
6/20/2018 6/20/2018 6/20/2018 6/20/2018	Authority Massachusetts Dev Finance Agcy Pennsylvania Tumpike Commission Pennsylvania Tumpike Commission Pennsylvania Tumpike Commission	B-182 Revenue Bonds Series 2018 A Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Turnpike Revenue Bonds Series A-2 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 1 of 2018	61.01 Negotiated Bid 25.00 Negotiated Bid 307.94 Negotiated Bid 39.71 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager	NR;NR;NR A1 A1 A1;A1;A1 A1	NR NR NR;NR;NR	NR A+ A+;A+;A+	Toll Roads, Highways & Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets	
6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/20/2018	Authority Massachusetts Dev Finance Agcy Pennsylvania Turnpike Commission	B-182 Revenue Bonds Series 2018 A Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Turnpike Revenue Bonds Series A-2 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018	61.01 Negotiated Bid 25.00 Negotiated Bid 307.94 Negotiated Bid 39.71 Negotiated Bid 117.75 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager	NR;NR;NR A1 A1 A1;A1;A1 A1	NR NR NR;NR;NR NR	A+ A+;A+;A+ A+	Toll Roads, Highways & Streets	
6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/22/2018	Authority Massachusetts Dev Finance Agcy Pennsylvania Turnpike Commission Pennsylvania Turnpike Commission Pennsylvania Turnpike Commission Pennsylvania Turnpike Commission NYS Housing Fin- Mortqaqe Agcy	B-182 Revenue Bonds Series 2018 A Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Turnpike Revenue Bonds Series A-2 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Alfordable Housing Revenue Bonds 2018 Series F	61.01 Negotiated Bid 25.00 Negotiated Bid 307.94 Negotiated Bid 39.71 Negotiated Bid 117.75 Negotiated Bid 39.03 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager	NR;NR;NR A1 A1 A1;A1;A1 A1 A1 A1 A2:Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;	NR NR,NR,NR NR NR NR NR NR	NR A+ A+;A+;A+ A+ A+ NR;NR;NR;NR;NR;NR;NR	Toll Roads, Highways & Streets Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets Multi Family Housing	
6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/22/2018	Authority Massachusetts Dev Finance Agry Fennsylvaria Turnpike Commission Pennsylvaria Turnpike Commission Pennsylvaria Turnpike Commission Pennsylvaria Turnpike Commission Pennsylvaria Turnpike Commission NYS Housing Fin- Mortgade Agry NYS Housing Fin-	B-182 Revenue Bonds Series 2018 A Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Turnpike Revenue Bonds Series A-2 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Alfordatie Housing Revenue Bonds 2018	61.01 Negotiated Bid 25.00 Negotiated Bid 307.94 Negotiated Bid 39.71 Negotiated Bid 117.75 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager	NR;NR;NR A1 A1;A1;A1 A1 A1 A1 A2;Aa2;Aa2;Aa2;Aa2;Aa2;A	NR NR NR;NR;NR NR	A+ A+;A+;A+ A+	Toll Roads, Highways & Streets	
6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/22/2018 6/22/2018	Authority Massachusetts Dev Finance Agry Pennsylvania Tumpike Commission NYS Housing Fin- Mortgage Agry NYS Housing Fin- Mortgage Agry NYS Housing Fin- Mortgage Agry NYS Housing Fin-	B-182 Revenue Bonds Series 2018 A Var Rate Turripike Revenue Bonds Series A- 1 of 2018 Turripike Revenue Bonds Series A-2 of 2018 Var Rate Turripike Revenue Bonds Series A- 1 of 2018 Var Rate Turripike Revenue Bonds Series A- 1 of 2018 Alfordatie Housing Revenue Bonds 2018 Series F Series F Alfordatie Housing Revenue Bonds 2018	61.01 Negotiated Bid 25.00 Negotiated Bid 307.94 Negotiated Bid 39.71 Negotiated Bid 117.75 Negotiated Bid 39.03 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager	NR;NR;NR A1 A1 A1;A1;A1 A1 A1 A1 A2:Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;	NR NR,NR,NR NR NR NR NR NR	NR A+ A+;A+;A+ A+ A+ NR;NR;NR;NR;NR;NR;NR	Toll Roads, Highways & Streets Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets Multi Family Housing	
6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/22/2018 6/22/2018	Authority Massachusetts Dev Finance Agrey Pennsylvania Turnpike Commission NYS Housing Fin- Mortgage Agrey NYS Housing Fin-	B-1&2 Revenue Bonds Series 2018 A Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Tumpike Revenue Bonds Series A-2 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Alfordable Housing Revenue Bonds 2018 Series F Series F Alfordable Housing Revenue Bonds 2018 Series F Series F Series F Variousing Revenue Bonds 2018 Series F Series F Variousing Revenue Bonds 2018 Series F Series F Variousing Revenue Bonds 2018 Series F Variousing Revenue Bonds 2018 Series F Variousing Revenue Bonds 2018	61.01 Negotiated Bid 25.00 Negotiated Bid 307.94 Negotiated Bid 39.71 Negotiated Bid 117.75 Negotiated Bid 39.03 Negotiated Bid 7.61 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager	NR:NR:NR A1 A1 A1;A1;A1 A1 A1 A2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa a2 Aa2	NR NR NR;NR;NR NR NR NR NR NR NR:NR;NR;NR;NR	NR A+ A+;A+;A+ A+ A+ NR:NR;NR;NR;NR;NR	Toll Roads, Highways & Streets Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets Multi Family Housing Multi Family Housing	
6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/22/2018 6/22/2018 6/22/2018	Authority Massachusetts Dev Finance Agry Pennsylvania Tumpike Commission NYS Housing Fin- Mortagee Agry NYS Housing Fin-	B-182 Revenue Bonds Series 2018 A Var Rata Turnpike Revenue Bonds Series A- 1 of 2018 Turnpike Revenue Bonds Series A-2 of 2018 Var Rata Turnpike Revenue Bonds Series A- 1 of 2018 Var Rata Turnpike Revenue Bonds Series A- 1 of 2018 Alfordable Housing Revenue Bonds 2018 Series F Alfordable Housing Revenue Bonds 2018 Series F Series F Alfordable Housing Revenue Bonds 2018 Series F Series F Alfordable Housing Revenue Bonds 2018 Series F Series F Alfordable Housing Revenue Bonds 2018 Series F Series F Alfordable Housing Revenue Bonds 2018 Series F Alfordable Housing Revenue Bonds 2018 Series F	61.01 Negotiated Bid 25.00 Negotiated Bid 307.94 Negotiated Bid 39.71 Negotiated Bid 117.75 Negotiated Bid 39.03 Negotiated Bid 7.61 Negotiated Bid 44.58 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager	NR:NR:NR A1 A1 A1:A1:A1 A1 A1 A1 A1 A1 A2	NR NR NR-NR-NR NR NR NR NR NR NR-NR-NR-NR-NR-NR NR NR-NR-NR-NR NR	NR A+ A+;A+;A+ A+ A+ NR;NR;NR;NR;NR;NR NR	Toll Roads, Highways & Streets Streets Toll Roads, Highways & Streets Streets Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets Streets Multi Family Housing	
6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/22/2018 6/22/2018 6/22/2018 6/22/2018 6/22/2018 6/22/2018	Authority Massachusetts Dev Finance Agry Pennsylvania Tumpike Commission NYS Housing Fin- NYS Housing Fin- Mortgage Agry NYS Housing Fin-	B-182 Revenue Bonds Series 2018 A Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Alfordatele Housing Revenue Bonds 2018 Series F Alfordatele Housing Revenue Bonds 2018 Series F Alfordatele Housing Revenue Bonds 2018 Series G Alfordatele Housing Revenue Bonds 2018	61.01 Negotiated Bid 25.00 Negotiated Bid 307.94 Negotiated Bid 39.71 Negotiated Bid 117.75 Negotiated Bid 39.03 Negotiated Bid 7.61 Negotiated Bid 44.58 Negotiated Bid 46.514 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	NR:NR:NR A1 A1 A1:A1:A1 A1 A1 A1 A1 A1 A1 A2:Aa2:Aa2:Aa2:Aa2:Aa2:Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2	NR NR NR-NR-NR NR NR NR NR NR NR-NR-NR-NR-NR-NR NR NR-NR-NR-NR NR	NR A+ A+;A+;A+ A+ A+ NR:NR:NR:NR;NR;NR NR NR:NR:NR	Toll Roads, Highways & Streets Streets Toll Roads, Highways & Streets Streets Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets Streets Multi Family Housing	
6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/22/2018 6/22/2018 6/22/2018 6/22/2018 6/22/2018	Authority Massachusetts Der Finance Agry Finance Agry Pennsylvania Tumpike Commission NYS Housing Fin- Mortragae Agry	B-182 Revenue Bonds Series 2018 A Var Rate Turrpike Revenue Bonds Series A-1 of 2018 Turrpike Revenue Bonds Series A-2 of 2018 Turrpike Revenue Bonds Series A-2 of 2018 Var Rate Turrpike Revenue Bonds Series A-1 of 2018 Var Rate Turrpike Revenue Bonds Series A-1 of 2018 Var Rate Turrpike Revenue Bonds Series A-1 of 2018 Alfordable Housing Revenue Bonds 2018 Series F Alfordable Housing Revenue Bonds 2018 Series G Alfordable Housing Revenue Bonds 2018 Series G	61.01 Negotiated Bid 25.00 Negotiated Bid 307.94 Negotiated Bid 39.71 Negotiated Bid 117.75 Negotiated Bid 39.03 Negotiated Bid 7.61 Negotiated Bid 44.58 Negotiated Bid 26.14 Negotiated Bid 26.20 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	NR:NR:NR A1 A1 A1:A1:A1 A1 A1 A1 A2:Aa2:Aa2:Aa2:Aa2:Aa2:Aa2 Aa2 Aa2:Aa2:Aa2:Aa2:Aa2:Aa2 Aa2 Aa2:Aa2:Aa2:Aa2:Aa2:Aa2:Aa2	NR NR NR,NR,NR NR NR NR NR NR,NR,NR,NR,NR NR NR,NR,NR,NR NR NR,NR,NR	NR A+ A+:A+:A+ A+ A+ A+ NR:NR:NR:NR:NR:NR NR NR:NR:NR NR NR NR NR NR:NR:NR:NR.NR.NR NR NR:NR:NR:NR:NR.NR.NR	Toll Roads, Highways & Streets Streets Toll Roads, Highways & Streets Streets Streets Toll Roads, Highways & Streets Streets Toll Roads, Highways & Streets Multi Family Housing	
6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/20/2018 6/22/2018 6/22/2018 6/22/2018 6/22/2018 6/22/2018 6/22/2018	Authority Massachusetts Dev Finance Agry Pennsylvania Tumpike Commission NYS Housing Fin- NYS Housing Fin- Mortgage Agry NYS Housing Fin-	B-182 Revenue Bonds Series 2018 A Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Var Rate Turnpike Revenue Bonds Series A- 1 of 2018 Alfordatele Housing Revenue Bonds 2018 Series F Alfordatele Housing Revenue Bonds 2018 Series F Alfordatele Housing Revenue Bonds 2018 Series G Alfordatele Housing Revenue Bonds 2018	61.01 Negotiated Bid 25.00 Negotiated Bid 307.94 Negotiated Bid 39.71 Negotiated Bid 117.75 Negotiated Bid 39.03 Negotiated Bid 7.61 Negotiated Bid 44.58 Negotiated Bid 26.14 Negotiated Bid 26.20 Negotiated Bid 33.66 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	NR:NR:NR A1 A1 A1:A1:A1 A1 A1 A2:Aa2:Aa2:Aa2:Aa2:Aa2:Aa2:Aa2 Aa2 Aa2:Aa2:Aa2:Aa2:Aa2:Aa2:Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2	NR NR NR,NR,NR NR NR NR NR NR,NR,NR,NR,NR,NR NR NR,NR,NR,NR NR NR NR,NR,NR,NR,NR,NR	NR A+ A+:A+:A+ A+ A+ A+ NR:NR:NR:NR:NR:NR NR NR:NR:NR NR NR NR:NR:NR:NR NR NR:NR:NR:NR:NR:NR	Toll Roads, Highways & Streets Streets Toll Roads, Highways & Streets Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets Toll Roads, Highways & Streets Multi Family Housing	

-1.					NR;NR;NR;NR;NR;NR; NR;NR;NR;NR;NR; NR;NR;NR	R;NR;NR;NR;NR;NR;NR;NR; NR;NR;NR;NR;NR;NR;NR	R;NR;NR;NR;NR;NR; NR;NR;NR;NR;NR		
	(CHFA)	Single Family Mortgage Rev Bonds 2018 Series C	95.00 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
		GO Wtr Fin Assistance Ref Bonds Ser 18B Sub B1 & B3	190.90 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	AAA;AAA	Water & Sewer Facilities	
		GO Wtr Fin Assistance Ref Bonds Ser 18B Sub B2	48.00 Negotiated Bid	Co-Manager	Aaa	AAA	AAA	Water & Sewer Facilities	
7/12/2018		Systemwide Revenue Bonds Series 2018 B	171.00 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA-;AA-;AA-	NR;NR;NR	Higher Education	
7/12/2018	3 California State Univ	Systemwide Revenue Bonds Series 2018 A	492.69 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2	AA-;AA-;AA-	NR;NR;NR;NR	Higher Education	
	Trustees NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2018	25.43 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2	AA+;AA+;AA+;AA+	NR;NR;NR;NR	Multi Family Housing	
	NYC Housing Dev Corp	Series F Multi-Family Housing Rev Bonds 2018 Series G	98.25 Negotiated Bid	Sole Manager;Remarketing	Aa2	NR	NR	Multi Family Housing	
7/12/2018	3 Los Angeles Co Facs Inc	Lease Revenue Bonds Series 2018 A	297.28 Negotiated Bid	Agent Lead Manager	NR;NR;NR;NR	AA;AA;AA	AA-;AA-;AA-	Office Buildings	
7/12/2018	3 Los Angeles Co Facs Inc	Lease Revenue Bonds Series 2018 B	5.10 Negotiated Bid	Lead Manager	NR	AA	AA-	Office Buildings	
	Auth (CHFA)	Housing Mortgage Fin Prog Bonds 18 Ser C Subser C-1	74.47 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
7/12/2018		Housing Mortgage Fin Prog Bonds 18 Ser C Subser C-2	4.02 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
7/12/2018	3 Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 18 Ser C Subser C-1	39.36 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
		Educational Purposes TANs Series 2017 J	42.11 Negotiated Bid	Sole Manager;Remarketing	NR	NR	NR	Primary & Secondary Education	
		Fed Hway Reimbursement Ref Notes 2018	1,195.73 Negotiated Bid	Agent Co-Manager	Baa1	A+	A-	Toll Roads, Highways &	
		Series A Revenue Bonds Series R 2018	35.50 Negotiated Bid	Lead Manager	A1	A+	NR	Streets Higher Education	
	Finance Agcy	Building Aid Revenue Bonds 19 Ser S1 &	886.74 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;A	AA-AA-AA-AA-AA		Primary & Secondary	
	Auth	Sub S2 A			a2			Education	
	Auth	Building Aid Revenue Bonds 2019 Series S- 1	42.57 Negotiated Bid	Co-Manager	Aa2	AA	AA	Primary & Secondary Education	
	Auth	Pub Fin Auth Spec Fac Rev Bonds Series 2018 A	40.04 Private Bid	Sole Manager	NR	NR	NR	Airports	
7/19/2018	3 District of Columbia	GO & Refunding Bonds Series 2018 A & B	515.69 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa	AA+;AA+;AA+	AA+;AA+;AA+	General Purpose/ Public Imp	
		Future Tax Secured Sub Bonds Subseries A-	165.73 Competitive Bid	Sole Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
7/26/2018		3 Future Tax Secured Sub Bonds Subseries A-	850.00 Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
7/31/2018		1 Revenue Bonds Series L (2018)	42.39 Negotiated Bid	Sole Manager	Baa1	BBB+	NR	Higher Education	
	Finance Agcy 3 Triborough Bridge &	General Revenue Refunding Bonds Series	189.06 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Bridges	
	Tunnel Auth	2018 B							
	Tunnel Auth	General Revenue Refunding Bonds Series 2018 B	81.03 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Bridges	
		Sales Tax Revenue Bonds Series 2018	155.63 Negotiated Bid	Co-Manager	NR	AAA	NR	General Purpose/ Public Imp	
8/9/2018	New York City-New York	General Obligation Bonds Series A & B	770.58 Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	AA;AA	General Purpose/ Public Imp	
	3 Denver City and Co- Colorado	Subordinate Revene Bonds Series 2018 B	184.37 Negotiated Bid	Co-Manager	A2;A2;A2;A2	A;A;A;A	A+;A+;A+;A+	Airports	
8/14/2018	B Denver City and Co-	Subordinate Revenue Bonds Series 2018 A	2,341.71 Negotiated Bid	Co-Manager	A2;A2;A2;A2;A2;A2	A;A;A;A;A;A	A+;A+;A+;A+;A+;A+;A	Airports	
8/15/2018	Colorado 3 Wisconsin	Environmental Imp Fund Rev Bonds 2018	92.08 Negotiated Bid	Co-Manager	NR	AAA	+ AAA	Water & Sewer Facilities	
8/16/2018		Series A GO Refunding Bonds 2018 Series F	239.20 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
		General Obligation Bonds 2018 Series A-1	205.00 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
			•						
8/16/2018	3 Connecticut	General Obligation Bonds 2018 Series A-2	45.00 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
8/16/2018	3 Connecticut	General Obligation Bonds 2018 Series E-1	45.39 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
8/16/2018	3 Connecticut	General Obligation Bonds 2018 Series E-3	25.74 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
8/16/2018	3 Connecticut	General Obligation Bonds 2018 Series E-4	253.87 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
8/16/2018	3 Connecticut	General Obligation Bonds 2018 Series E-2	75.00 Negotiated Bid	Co-Manager	A1	A	A+	Water & Sewer Facilities	
8/16/2018	NYC Municipal Water Fin	Wtr & Swr 2nd Gen Resol Bonds Series AA	264.04 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
	Auth	Transpo Revenue Ref Green Bonds Series	145.05 Negotiated Bid	Co-Manager	A1	A	AA-	Mass Transportation	
	Authority	2018 B							
		Transpo Revenue Ref Green Bonds Series 2018 B	62.17 Negotiated Bid	Co-Manager	A1	A	AA-	Mass Transportation	
		Refunding Lease Revenue Bonds Series 2018 B	13.36 Competitive Bid	Sole Manager	Aa1	AA	AA	Libraries & Museums	
8/22/2018	Texas	TRANs Series 2018	7,200.00 Competitive Bid	Lead Manager	NR;NR;NR;NR;NR;NR; NR;NR;NR;NR;NR;NR; NR;NR;NR;NR;NR;NR; NR;NR;NR;NR;NR;NR; NR;NR;NR;NR;NR;NR; NR;NR;NR;NR;NR;	NR;NR;NR;NR;NR;NR;NR;N R;NR;NR;NR;NR;NR;NR;NR; NR;NR;NR;NR;NR;NR;NR;N R;NR;NR;NR;NR;NR;NR;NR; NR;NR	;NR;NR;NR;NR;NR;N R;NR;NR;NR;NR;NR;		
	Fin Corp	Homeownership Opportunity Bonds Series 69-A	13.85 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
8/22/2018	Rhode Island Hsg & Mtg	Homeownership Opportunity Bonds Series 69-B	83.08 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Rhode Island Hsg & Mtg	Homeownership Opportunity Bonds Series	8.34 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
8/22/2018	Ein Corn	60.T		Co-Manager	Aa3	AA-	AA-	Bridges	
8/22/2018 8/23/2018	3 Triborough Bridge &	69-T General Revenue Refunding Bonds Series	111.50 Negotiated Bid	OU Wanagoi				Bridges	
8/22/2018 8/23/2018	3 Triborough Bridge & Tunnel Auth		111.50 Negotiated Bid 47.78 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	-	
8/22/2018 8/23/2018 8/23/2018	3 Triborough Bridge & Tunnel Auth 3 Triborough Bridge & Tunnel Auth	General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C	47.78 Negotiated Bid	Co-Manager				General Purpose/ Public Imp	
8/22/2018 8/23/2018 8/23/2018 8/23/2018	3 Triborough Bridge & Tunnel Auth 3 Triborough Bridge & Tunnel Auth 3 Massachusetts	General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C General Obligation RANs 2018 Series C	47.78 Negotiated Bid 500.00 Competitive Bid	Co-Manager Lead Manager	NR;NR;NR;NR;NR; NR;NR;NR	NR;NR;NR;NR;NR;NR;NR;N R;NR	NR;NR;NR;NR;NR;NR ;NR;NR	General Purpose/ Public Imp	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018	3 Triborough Bridge & Tunnel Auth 3 Triborough Bridge & Tunnel Auth 8 Massachusetts 3 University of Pittsburgh	General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C General Obligation RANs 2018 Series C Higher Education Pitt Asset Notes Registered Serol/2018	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid	Co-Manager Lead Manager Lead Manager	NR;NR;NR;NR;NR;NR; NR;NR;NR Aa1	NR;NR;NR;NR;NR;NR;NR;N R;NR AA+	NR;NR;NR;NR;NR;NR ;NR;NR;NR NR	Higher Education	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018	3 Triborough Bridge & Tunnel Auth 3 Triborough Bridge & Tunnel Auth 8 Massachusetts 8 University of Pittsburgh 3 Contra Costa Transportation Auth	General Reverue Refunding Bonds Series 2018 C General Reverue Refunding Bonds Series 2018 C General Obligation RANs 2018 Series C Higher Education PIII Asset Notes Registered Serie 2018 Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid	Co-Manager Lead Manager	NR;NR;NR;NR;NR; NR;NR;NR	NR;NR;NR;NR;NR;NR;NR;N R;NR	NR;NR;NR;NR;NR;NR ;NR;NR		
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018	3 Triborough Bridge & Tunnel Auth 3 Triborough Bridge & Tunnel Auth 8 Massachusetts 9 University of Pittsburgh 9 Contra Costa Transportation Auth 9 Contra Costa	General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C General Obligation RANs 2018 Series C General Obligation RANs 2018 Series C Higher Education Pitt Asset Notes Registered Sero/2018	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid	Co-Manager Lead Manager Lead Manager	NR;NR;NR;NR;NR;NR; NR;NR;NR Aa1	NR;NR;NR;NR;NR;NR;NR;N R;NR AA+	NR;NR;NR;NR;NR;NR ;NR;NR;NR NR	Higher Education	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018	3 Triborough Bridge & Tunnel Auth 3 Triborough Bridge & Tunnel Auth 8 Massachusetts 4 University of Pittsburgh 5 Contra Costa Transportation Auth Contra Costa Transportation Auth Maine State Housing Maine State Housing	General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 General Obligation RANs 2018 Series C Higher Education Pitt Asset Notes Registered Serd/2018 Sales Tax Ltd Tax Ref Ref bonds Series 2018 A Sales Tax Ltd Tax Ref Ref Bonds Series	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager	NR;NR;NR;NR;NR; NR;NR Aa1	NR;NR;NR;NR;NR;NR;N R;NR AA+	NR;NR;NR;NR;NR ;NR;NR NR AA+	Higher Education Mass Transportation	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018	Tribrorugh Bridge & Trunnel Auth Tribrorugh Bridge & Tribrorugh Bridge & Trunnel Auth Massachusetts University of Pittsburgh Contra Costa Transportation Auth Transportation Auth Transportation Auth Maine State Housing Authority Maine State Housing	General Reverue Refunding Bonds Series 2018 C General Reverue Refunding Bonds Series 2018 C General Obligation RANs 2018 Series C Higher Education PIH Asset Notes Registered Serie 2018 Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 B	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager	NR;NR;NR;NR;NR; NR;NR;NR Aa1 NR	NR;NR;NR;NR;NR;NR;NR;N R;NR AA+ AA+	NR;NR;NR;NR;NR;NR ;NR;NR NR AA+	Higher Education Mass Transportation Mass Transportation	
8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018	Tribrorugh Bridge & Tunnel Auth Tribrorugh Bridge & Tribrorugh Bridge & Trunnel Auth Massachusetts University of Pittsburgh Contra Costa Transportation Auth Contra Costa Transportation Auth Maine State Housing Authority Maine State Housing Authority Authority Colorado Hog & Fin Auth	General Reverue Refunding Bonds Series 2018 C General Reverue Refunding Bonds Series 2018 C General Obligation RANs 2018 Series C Higher Education PIII Asset Notes Registered Serie 2018 Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 B Mortgage Purchase Bonds 2018 Series D-2	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 3.15 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager	NR;NR;NR;NR;NR;NR;NR;NR;NR;NR;NR;NR;NR;N	NR:NR;NR;NR;NR;NR;NR;N R:NR AA+ AA+ AA+	NR;NR;NR;NR;NR;NR ;NR;NR NR AA+ AA+	Higher Education Mass Transportation Mass Transportation Single Family Housing	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018	Triborough Bridge & Triborough Bridge & Triborough Bridge & Triborough Bridge & Tunned Auth Massachusetts University of Pittsburgh Contra Costa Transportation Auth Contra Costa Transportation Auth Maine State Housing Authority Maine State Housing Authority Colorado Heg & Fin Auth (CHFA)	General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series C Beneral Obligation RANs 2018 Series C Higher Education PIII Asset Notes Registered Series 2018 Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 B Mortgage Purchase Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series D	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 3.15 Negotiated Bid 45.00 Negotiated Bid 38.00 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Lead Manager Lead Manager	NR;NR;NR;NR;NR; NR;NR;NR Aa1 NR NR Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 Aaa	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR:NR:NR:NR;NR :NR:NR;NR NR AA+ AA+ NR NR:NR:NR:NR;NR	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing Single Family Housing	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018	Triborough Bridge & Tunnel Auth Triborough Bridge & Triborough Bridge & Triborough Bridge & Tunnel Auth Massachusetts University of Pittsburgh Contra Costa Transportation Auth Contra Costa Transportation Auth Maine State Housing Authority Maine State Housing Authority Maine State Housing Authority Colorado Hog & Fin Auth (CHFA) NYC Transitional Finance Auth	General Reverue Refunding Bonds Series 2018 C General Reverue Refunding Bonds Series 2018 C General Reverue Refunding Bonds Series C General Obligation RANs 2018 Series C Higher Education PIH Asset Notes Registered Series 2018 Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 B Mortgage Purchase Bonds 2018 Series D-2 Mortgage Purchase Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series D Future Tax Secured Sub Bonds 19 Ser B Subser B-1	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 3.15 Negotiated Bid 45.00 Negotiated Bid 38.00 Negotiated Bid 750.00 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Lead Manager Lead Manager Lead Manager Co-Manager	NR;NR;NR;NR;NR; NR;NR;NR Aa1 NR NR Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 Aaa Aa1;Aa1	NR.NR.NR.NR.NR.NR.NR.N R.NR AA+ AA+ AA+ AA+ AA+ AA+;AA+;AA+;AA+ AAA AAA	NR:NR:NR:NR:NR :NR:NR:NR NR AA+ AA+ NR NR:NR:NR:NR:NR NR	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing General Purpose/ Public Imp	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/29/2018 9/7/2018	Triborough Bridge & Tunnel Auth Triborough Bridge & Triborough Bridge & Triborough Bridge & Triborough Bridge & Tunnel Auth Massachusetts University of Pittsburgh Contra Costa Transportation Auth Contra Costa Transportation Auth Maine State Housing Authority Maine State Housing Authority Maine State Housing Authority Nation State Housing Authority Nation State Housing Authority Nation State Housing Authority NYC Transitional Finance Auth	General Revenue Refunding Bonds Series 2018 C 2018 C General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series C Higher Education Pltt Asset Notes Registered Serol 2018 Series C Higher Education Pltt Asset Notes Registered Serol 2018 Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 B Mortgage Purchase Bonds 2018 Series D-2 Mortgage Purchase Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series C Stripe Family Mortgage Rev Bonds 2018 Series D Future Tax Secured Sub Bonds 19 Ser B Subser B-1 Future Tax Secured Sub Bonds Ser A Sub A-2 & A-3	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 3.15 Negotiated Bid 45.00 Negotiated Bid 38.00 Negotiated Bid 750.00 Negotiated Bid 151.53 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager	NR.NR.NR.NR.NR. NR.NR.NR Aa1 NR NR Aa1 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 Aaa Aa1;Aa1 Aa1,Aa1	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 9/7/2018 9/7/2018 9/7/2018	Tribrough Bridge & Tunnel Auth Tribrough Bridge & Tribrough Bridge & Tribrough Bridge & Tribrough Bridge & Tunnel Auth Massachusetts University of Pittsburgh Contra Costa Transportation Auth Contra Costa Transportation Auth Scort Costa Transportation Auth Maine State Housing Authority Maine State Housing Authority Maine State Housing Authority Nation State Housing Authority Nation State Housing Authority Nor Transitional Finance Auth NYC Transitional Finance Auth New Jersey Hsg & Mtg Fin Agency New Jersey Hsg & Mtg Fin Agency	General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C General Obligation RANs 2018 Series C Higher Education PItt Asset Notes Registered Serot 2018 Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 B Mortgage Purchase Bonds 2018 Series D-2 Mortgage Purchase Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series C Future Tax Secured Sub Bonds 19 Ser B Subser B-1 Future Tax Secured Sub Bonds Ser A Sub A-2 & A-3 Multi-Family Revenue Bonds Series E	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 3.15 Negotiated Bid 45.00 Negotiated Bid 38.00 Negotiated Bid 750.00 Negotiated Bid 151.53 Negotiated Bid 6.85 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sote Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Lead Manager Lead Manager	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR NR AA+ AA+ NR NR.NR.NR NR NR.NR.NR.NR.NR.NR NR AAA,AAA AAA,AAA NR	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp Multi Family Housing	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/29/2018 9/7/2018 9/7/2018 9/7/2018	Tribrorough Bridge & Trubrough Bridge & Trubnel Auth Tribrorough Bridge & Tribrorough Bridge & Tribrorough Bridge & Trubnel Auth Massachusetts University of Pittsburgh Stonitz Costa Transportation Auth Contra Costa Transportation Auth Contra Costa Bridge	General Revenue Refunding Bonds Series 2018 C 2018 C General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series C Higher Education Pltt Asset Notes Registered Serol 2018 Series C Higher Education Pltt Asset Notes Registered Serol 2018 Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 B Mortgage Purchase Bonds 2018 Series D-2 Mortgage Purchase Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series C Stripe Family Mortgage Rev Bonds 2018 Series D Future Tax Secured Sub Bonds 19 Ser B Subser B-1 Future Tax Secured Sub Bonds Ser A Sub A-2 & A-3	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 3.15 Negotiated Bid 45.00 Negotiated Bid 38.00 Negotiated Bid 750.00 Negotiated Bid 151.53 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager	NR.NR.NR.NR.NR. NR.NR.NR Aa1 NR NR Aa1 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 Aaa Aa1;Aa1 Aa1,Aa1	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp	
8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 9/7/2018 9/7/2018 9/7/2018 9/7/2018	Tribrorough Bridge & Tribrorough & Masse-Schusetts & University of Pittsburgh & Contra Costa Transportation Auth Contra Costa Transportation Auth Marine State Housing Authority & Authority & Authority & Authority & Colorado Heg & Fin Auth (CHFA) & Scholarough & Fin Authority & Colorado Heg & Fin Authority & NYC Transitional Finance Auth & New Jersey Hsg & Mitg Fin Agency & New Jersey Hsg & Mitg Fin Agen	General Reverue Refunding Bonds Series 2018 C General Reverue Refunding Bonds Series 2018 C General Reverue Refunding Bonds Series 2018 C General Diligation RANs 2018 Series C Hilgher Education Pitt Asset Notes Registered Serol 2018 Series 2018 A Sales Tax Ltd Tax Ref Ref Bonds Series 2018 A Sales Tax Ltd Tax Ref Ref Bonds Series 2018 A Mortgage Purchase Bonds 2018 Series D-2 Mortgage Purchase Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series D Steries D Stocued Sub Bonds 19 Ser B Subser R- Fitture Tax Secured Sub Bonds Series E Multi-Family Revenue Bonds 2018 Series C & D Multi-Family Revenue Bonds 2018 Series C	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 3.15 Negotiated Bid 45.00 Negotiated Bid 38.00 Negotiated Bid 750.00 Negotiated Bid 151.53 Negotiated Bid 6.85 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sote Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Lead Manager Lead Manager	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR NR AA+ AA+ NR NR.NR.NR NR NR.NR.NR.NR.NR.NR NR AAA,AAA AAA,AAA NR	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp Multi Family Housing	
8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 9/7/2018 9/7/2018 9/7/2018 9/7/2018 9/7/2018	Triborough Bridge & Wassachusetts University of Pittsburgh Contra Costa Triansportation Auth Contra Costa Triansportation Auth Maine State Housing Authority Maine State Housing Authority Maine State Housing Authority NYC Transitional Finance Auth NYC Transitional Finance Auth NYC Transitional Finance Auth New Jersey Hsg & Mtg Fin Agency	General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C General Obligation RANs 2018 Series C Higher Education PItt Asset Notes Registered Serot 2018 Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 B Mortgage Purchase Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series C Future Tax Secured Sub Bonds 19 Ser B Subser B-1 Future Tax Secured Sub Bonds Ser A Sub A-2 & A-3 Multi-Family Revenue Bonds 2018 Series C Multi-Family Revenue Bonds 2018 Series C Multi-Family Revenue Bonds 2018 Series C & D	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 3.15 Negotiated Bid 45.00 Negotiated Bid 38.00 Negotiated Bid 750.00 Negotiated Bid 151.53 Negotiated Bid 6.85 Negotiated Bid 53.74 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sote Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR NR AA+ AA+ NR NR.NR.NR NR NR.NR.NR.NR.NR NR AAA,AAA AAA,AAA AAA,AAA NR NR.NR.NR.NR	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp Multi Family Housing Multi Family Housing Multi Family Housing	
8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 9/7/2018 9/7/2018 9/7/2018 9/7/2018 9/7/2018 9/7/2018	Tribrorugh Bridge & Trubrough Bridge & Trubrough Bridge & Trubnel Auth Tribrorugh Bridge & Trubrough Bridge & Tunnel Auth Massachusetts University of Pittsburgh & Contra Costa Transportation Auth & Contra Costa Transportation Auth Gontra Costa State Housing Authority Maine State Housing Authority Marie State Housing Marie	General Revenue Refunding Bonds Series 2018 C 2018 C 2018 C 30 C 3	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 95.03 Negotiated Bid 45.00 Negotiated Bid 45.00 Negotiated Bid 750.00 Negotiated Bid 151.53 Negotiated Bid 6.85 Negotiated Bid 53.74 Negotiated Bid 100.62 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Lead Manager	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR NR AA+ AA+ NR NR,NR.NR.NR.NR.NR NR NR.NR.NR.NR.NR.NR NR AAA.AAA AAA.AAA NR NR.NR.NR.NR	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 9/7/2018 9/7/2018 9/7/2018 9/7/2018 9/1/2018	Tribrorugh Bridge & Tunnel Auth Tribrorugh Bridge & Tribrorugh Bridge & Tribrorugh Bridge & Tribrorugh Bridge & Tunnel Auth Massachusetts University of Pittsburgh Contra Costa Transportation Auth Contra Costa Transportation Auth Maine State Housing Authority Maine State Housing Authority Maine State Housing Authority Nor Transitional Finance Auth NYC Transitional Finance Auth NYC Transitional Finance Auth New Jersey Hsg & Mitg Fin Agency Ohio Ohio Ohio Ohio Prince Georges Co- Maryland	General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series C Heigher Education PItt Asset Notes Registered Serot 2018 Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 B Mortgage Purchase Bonds 2018 Series D-2 Mortgage Purchase Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series D Future Tax Secured Sub Bonds 19 Ser B Subser B-1 Future Tax Secured Sub Bonds Ser A Sub A-2 & A-3 Multi-Family Revenue Bonds 2018 Series C Multi-Family Revenue Bonds 2018 C & D Certificates of Participation Series 2018	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 95.03 Negotiated Bid 45.00 Negotiated Bid 45.00 Negotiated Bid 750.00 Negotiated Bid 151.53 Negotiated Bid 6.85 Negotiated Bid 53.74 Negotiated Bid 100.62 Negotiated Bid 118.21 Negotiated Bid 91.99 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Lead Manager	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR NR AA+ AA+ NR NR,NR.NR.NR.NR.NR NR NR.NR.NR.NR.NR NR AAA.AAA AAA.AAA NR NR.NR.NR.NR NR.NR NR.NR NR.NR NR.NR NR.NR NR.NR	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp Multi Family Housing Multi Family Housing Multi Family Housing General Acute Care Hospital General Acute Care Hospital	
8.22/2018 8.23/2018 9.77/2018	Tribrorough Bridge & Tribrorough Bridge & Tribrorough Bridge & Tribrorough Bridge & Tribrorough Bridge & Tribrorough Bridge & Massachusetts University of Pittsburgh Schnitz Cests Transportation Auth Contra Cests Transportation Auth Transportation Au	General Revenue Refunding Bonds Series 2018 C General Revenue Refunding Bonds Series 2018 C General Rolligation RANs 2018 Series C Higher Education PItt Asset Notes Registered Sero 2018 Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 A Sales Tax Ltd Tax Ref Rev Bonds Series 2018 B Mortgage Purchase Bonds 2018 Series D-2 Mortgage Purchase Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series C Single Family Mortgage Rev Bonds 2018 Series D Future Tax Secured Sub Bonds 19 Ser B Subser B-1 Future Tax Secured Sub Bonds Ser A Sub A-2 & A-3 Multi-Family Revenue Bonds 2018 Series C & D Multi-Family Revenue Bonds 2018 Series C & B Hospital Revenue Bonds Series 2018 C & D Certificates of Participation Series 2018 System Revenue & Refunding Bonds Series 2018 System Revenue & Refunding Bonds Series	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 95.03 Negotiated Bid 45.00 Negotiated Bid 45.00 Negotiated Bid 750.00 Negotiated Bid 151.53 Negotiated Bid 6.85 Negotiated Bid 100.62 Negotiated Bid 118.21 Negotiated Bid 91.99 Negotiated Bid 91.99 Negotiated Bid 93.40 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager Sole Manager Lead Manager	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR NR AA+ AA+ NR NR.NR.NR.NR.NR.NR NR AAA.AAA AAA.AAA NR NR.NR.NR.NR NR.NR	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp Multi Family Housing Multi Family Housing Multi Family Housing General Acute Care Hospital General Acute Care Hospital Public Power	
8/22/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 8/23/2018 9/7/2018	Tribrorough Bridge & Tribrorough Bridge & Tribrorough Bridge & Tribrorough Bridge & Tribrorough Bridge & Tribrorough Bridge & Tribrorough Bridge & University of Pittsburgh Schnitz Costa Transportation Auth Contra Costa Transportation Auth Contra Costa Transportation Auth Maine State Housing Authority Colorado Heg & Fin Auth (CHFA) Maine State Housing Authority Colorado Heg & Fin Auth (CHFA) NYC Transitional Finance Auth NYC Transitional Finance NYC Transiti	General Reverue Retrunding Bonds Series 2018 C General Reverue Retrunding Bonds Series 2018 C General Reverue Retrunding Bonds Series 2018 C General Obligation RANs 2018 Series C Higher Education Pitt Asset Notes Registered Serot 2018 Sales Tax Ltd Tax Ret Ret Bonds Series 2018 A Sales Tax Ltd Tax Ret Ret Bonds Series 2018 B Mortgage Purchase Bonds 2018 Series D-2 Mortgage Purchase Bonds 2018 Series D-2 Single Family Mortgage Rev Bonds 2018 Series D Future Tax Secured Sub Bonds 19 Ser B Subsar 6-1 Future Tax Secured Sub Bonds Ser A Sub A- 2 LAMLI-Family Revenue Bonds 2018 Series C & D Multi-Family Revenue Bonds 2018 Series C & D Multi-Family Revenue Bonds 2018 Series A & B Hospital Revenue Bonds Series S 2018 C Certificates of Paticipation Series 2018 C	47.78 Negotiated Bid 500.00 Competitive Bid 110.00 Negotiated Bid 100.00 Negotiated Bid 95.03 Negotiated Bid 95.03 Negotiated Bid 45.00 Negotiated Bid 45.00 Negotiated Bid 750.00 Negotiated Bid 151.53 Negotiated Bid 6.85 Negotiated Bid 53.74 Negotiated Bid 100.62 Negotiated Bid 118.21 Negotiated Bid 91.99 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Lead Manager	NR.NR.NR.NR.NR.NR. NR.NR.NR. NR NR NR Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 Aaa Aa1;Aa1;Aa1 Aa1 Aa1 Aa1;Aa1 NR NR;NR NR;NR NR;NR A2;A2 Aa1;Aa1;Aa1	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	NR.NR.NR.NR.NR.NR NR AA+ AA+ NR NR,NR.NR.NR.NR.NR NR NR.NR.NR.NR.NR NR AAA.AAA AAA.AAA NR NR.NR.NR.NR NR.NR NR.NR NR.NR NR.NR NR.NR NR.NR	Higher Education Mass Transportation Mass Transportation Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp Multi Family Housing Multi Family Housing Multi Family Housing General Acute Care Hospital General Acute Care Hospital	

	Board	St Wtr Implementation Fund Bonds Series 2018 B	1,672.21 Negotiated Bid	Co-Manager	NR;NR;NR;NR;NR; NR	AA;AAA	AA;AAA;AAA;AAA;AA A;AAA;AAA;AAA;AAA		
	Board	St Wtr Implementation Fund Bonds Series 2018 C	35.59 Negotiated Bid	Co-Manager	NR;NR;NR	AAA;AAA;AAA	AAA;AAA;AAA	Water & Sewer Facilities	
	Ohio Higher Ed Fac Commission	Hospital Revenue Bonds Series 2018 A	25.23 Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA	NR	General Acute Care Hospital	
	Wisconsin Hlth & Ed Fac Auth (WHEFA)	Revenue Bonds Series 2018 A & B	100.00 Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer;Remarketin g Agent;Credit Enhancer	NR;NR	NR;NR	NR;NR	General Acute Care Hospital	
9/25/2018	Wisconsin	General Obligation Bonds Series B of 2018	109.97 Competitive Bid	Sole Manager	Aa1	AA	AA+	General Purpose/ Public Imp	
	Wisconsin	General Obligation Bonds Series B of 2018	149.00 Competitive Bid	Sole Manager	Aa1	AA	AA+	General Purpose/ Public Imp	
	Trustees	General Revenue Bonds 2018 Series	63.03 Private Bid	Sole Manager	NR	NR	NR	Higher Education	
	NYS Dorm Authority	State Sales Tax Revenue Bonds Series 2018 F	19.88 Competitive Bid	Sole Manager	Aa1	AAA	NR	General Purpose/ Public Imp	
	Texas Public Finance Auth (TPFA) Kansas Dept of	GO Refunding Bonds Series 2018 A	164.51 Negotiated Bid	Co-Manager Lead Manager	Aaa Aa2	AAA	NR NR	General Purpose/ Public Imp Toll Roads, Highways &	
	Transportation NYC Housing Dev Corp	Highway Revenue Bonds Series 2018 A Multi-Family Housing Rev Bonds 2018	173.04 Negotiated Bid 125.00 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA+;AA+;AA+	NR;NR;NR	Streets Multi Family Housing	
	NYC Housing Dev Corp	Series I Multi-Family Housing Rev Bonds 2018	84.77 Negotiated Bid	Co-Manager Co-Manager	Aa2;Aa2	AA+;AA+	NR;NR	Multi Family Housing	
	NYC Housing Dev Corp	Series H Multi-Family Housing Rev Bonds 2019	85.00 Negotiated Bid	Co-Manager	Aa2;Aa2	AA+;AA+	NR;NR	Multi Family Housing	
	Franklin Co-Ohio	Series A-1 Hospital Facilities Revenue Bonds Series	127.30 Negotiated Bid	Lead Manager	Aa2;Aa2	AA+;AA+	AA+;AA+	General Acute Care Hospital	
0/10/2018	Franklin Co-Ohio	2018 A Hospital Facilities Revenue Bonds Series	50.00 Negotiated Bid	Lead Manager	Aa2	AA+	AA+	General Acute Care Hospital	
	Maine State Housing	2018 B Mortgage Purchase Bonds 2018 Series E	29.50 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Authority Clark Co Public Utility Dt	Generating System Revenue Bonds Series	19.14 Negotiated Bid	Lead Manager	A1	A+	AA-	Combined Utilities	
0/11/2018	#1 Clark Co Public Utility Dt	2018 Electric System Revenue Bonds Series	35.62 Negotiated Bid	Lead Manager	A1	A+	AA-	Public Power	
0/11/2018	#1 Connecticut Housing & Fin	2018 Hsg Mortgage Fin Program Bonds 18 Ser D	32.31 Negotiated Bid	Co-Manager		AAA;AAA;AAA;AAA;AA	NR;NR;NR;NR;NR;NR	Single Family Housing	
0/11/2018	Auth (CHFA) Connecticut Housing & Fin	Subser D-1 Hsg Mortgage Fin Program Bonds 18 Ser D	38.34 Negotiated Bid	Co-Manager	aa Aaa	A AAA	NR	Single Family Housing	
0/11/2018	Auth (CHFA) Michigan St Hsg Dev Au	Subser D-2 Single Family Mortgage Rev Bonds 2018	265.90 Negotiated Bid	Lead Manager	Aa2;Aa2;Aa2;Aa2	AA+;AA+;AA+;AA+	NR;NR;NR;NR	Single Family Housing	
0/11/2018	(MSHDA) Michigan St Hsg Dev Au (MSHDA)	Series C Single Family Mortgage Rev Bonds 2018	50.00 Private Bid	Sole Manager	Aa2	AA+	NR	Single Family Housing	
0/12/2018	NYS Housing Fin-	Series D Affordable Housing Rev Bonds 2018 Series	135.97 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;	A NR;NR;NR;NR;NR;NR;NR;N R;NR;NR	NR;NR;NR;NR;NR;NR ;NR;NR;NR;NR	R Single Family Housing	
0/16/2018	Mortgage Agcy Wisconsin	Gen Fund Annual Approp Ref Bond Series A of 2018	359.95 Negotiated Bid	Co-Manager	Aa2	NR NR	AA	General Purpose/ Public Imp	
	Virginia Public School Authority	School Financing Bonds Series 2018 B	109.07 Competitive Bid	Sole Manager	Aa1	AA+	AA+	Primary & Secondary Education	
	Franklin Co-Ohio	Hospital Facilities Revenue Bonds Series 2018 C	37.50 Negotiated Bid	Sole Manager;Remarketing	Aa2	AA+	AA+	General Acute Care Hospital	
0/17/2018	Illinois Finance Authority	Revenue Refunding Bonds Series 2018 A	123.51 Negotiated Bid	Agent Lead Manager	NR:NR:NR	A;A;A	A;A;A	General Acute Care Hospital	
	NYC Transitional Finance	Building Aid Revenue Bonds 19 Ser S-3 Sub	1,217.76 Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	AA;AA	Primary & Secondary	
	Auth Long Island Power	S-3A Electric System General Rev Bonds Series	430.00 Negotiated Bid	Co-Manager	A3	A-	A-	Education Public Power	
0/18/2018	Authority Lucas Co-Ohio	2018 Hospital Revenue Bonds Series 2018 A	253.32 Negotiated Bid	Lead Manager	Baa1;Baa1;Baa1	BBB;BBB;BBB	BBB+;BBB+;BBB+	General Acute Care Hospital	
0/18/2018	Colorado Hsg & Fin Auth	Homeownership Class I Bonds Series 2018	46.74 Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
0/18/2018	(CHFA) Colorado Hsg & Fin Auth	BB-1 Homeownership Class I Bonds Series 2018	42.74 Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
0/23/2018		BB-2 Revenue Refunding Bonds Series 2019 A	50.52 Negotiated Bid	Lead Manager	A1;A1;A1	A+;A+;A+	NR;NR;NR	General Acute Care Hospital	
0/23/2018		Revenue Bonds Series 2018 E	38.37 Negotiated Bid	Lead Manager	A1;A1;A1	A+;A+;A+	NR;NR;NR	General Acute Care Hospital	
0/23/2018	(LPFA) Louisiana Public Facs Auth (LPFA)	Revenue Refunding Bonds Series 2018 D	27.86 Negotiated Bid	Lead Manager	A1	A+	NR	General Acute Care Hospital	
0/23/2018		Revenue Bonds Series 2018 B	333.18 Negotiated Bid	Lead Manager	A1;A1;A1	A+;A+;A+	NR;NR;NR	General Acute Care Hospital	
0/23/2018		Revenue Bonds Series 2018 A	110.46 Negotiated Bid	Lead Manager	A1	A+	NR	General Acute Care Hospital	
0/24/2018		Tribal Economic Dev & Ref Bonds Series 2018 A & B	61.89 Negotiated Bid	Lead Manager	NR;NR	NR;NR	BBB-;BBB-	Economic Development	
0/24/2018		Revenue Bonds Series 2018 C	85.61 Negotiated Bid	Lead Manager	NR;NR	NR;NR	BBB-;BBB-	Economic Development	
0/24/2018		Housing Mtg Finance Prog Bonds 18 Ser E Subser E-1	78.36 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA	NR;NR;NR;NR	Single Family Housing	
	Atlanta City-Georgia	Water & Wastewater Rev Ref Bonds Series 2018 C	288.90 Negotiated Bid	Co-Manager	Aa2	AA-	NR	Water & Sewer Facilities	
	Phoenix City Civic Imp Corp	Sr Lien Airport Revenue Bonds Series 2018	226.18 Negotiated Bid	Lead Manager	Aa3;Aa3;Aa3;Aa3	AA-;AA-;AA-	NR;NR;NR	Airports	
0/25/2018	Missouri Hlth & Ed Facs Authority	Health Facilities Revenue Bonds Series 2018 A	222.12 Negotiated Bid	Lead Manager	Aa3	AA-	NR	General Acute Care Hospital	
	Auth	Revenue Bonds Series 2018	28.89 Negotiated Bid	Lead Manager	Aa2	NR	NR	Higher Education	
	Massachusetts Housing Fin Agcy	Housing Bonds 2018 Series C	79.29 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2	AA;AA;AA	NR;NR;NR;NR	Single Family Housing	
	Univ of WI Hosp & Clinics Auth	Revenue Bonds Series 2018 A	166.32 Negotiated Bid	Lead Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	NR;NR;NR	General Acute Care Hospital	
	Orange Co Sanitation Dt	Revenue Ref Certs Antic Notes Series 2018 A	102.20 Competitive Bid	Sole Manager	Aaa	NR	AAA	Sanitation Countries	
	Fin Auth	Lease Revenue Bonds 2018 Series A	217.64 Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1;Aa1	AA+;AA+;AA+;AA+	NR;NR;NR;NR	General Acute Care Hospital	
	San Mateo Co Jt Powers Fin Auth PR Govt Dev Bank	Lease Revenue Bonds 2019 Series A Debt Recovery Bonds	45.17 Negotiated Bid 2,597.76 Competitive Bid	Lead Manager Lead Manager	Aa1 NR	AA+ NR	NR NR	General Acute Care Hospital General Purpose/ Public Imp	
	Recovery Auth	Variable Rate Demand Rev Bonds Series	2,597.76 Competitive Bid 170.57 Negotiated Bid	Lead Manager Lead	NR;NR	NR;NR	NR;NR	General Purpose/ Public Imp General Acute Care Hospital	
. 1/0/2018	Auth	2018 B & C	170.57 Nagotialed Bid	Manager;Remarketing Agent	1113,1413	. suspens	1114,1111	Constant Acute Care Pospital	
1/14/2018	California Educational Facs Auth	Revenue Bonds Series 2018 B	35.88 Negotiated Bid	Sole Manager	A2;A2	NR;NR	NR;NR	Higher Education	
		Revenue Bonds Series 2018 A	140.00 Negotiated Bid	Sole Manager	A2;A2;A2;A2	NR;NR;NR	NR;NR;NR;NR	Higher Education	
1/14/2018	Virginia Transportation Board	Federal Transportation Rev GANs Series 2018	75.75 Competitive Bid	Sole Manager	Aa1	AA+	AA+	Mass Transportation	
	Portland City-Oregon	Limited Tax Revenue Bonds 2018 Series B	102.86 Competitive Bid	Sole Manager	Aaa	NR	NR	Government Buildings	
	Maine State Housing Authority	Mortgage Purchase Bonds 2018 Series F	34.43 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
	Central Florida Expressway Au	Senior Lien Revenue Bonds Series 2018	221.05 Negotiated Bid	Co-Manager	A1;A1;A1	A+;A+;A+	A+;A+;A+	Toll Roads, Highways & Streets	
1/16/2018		Single Family Mortgage Rev Bonds 2019 Series A	16.04 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
1/16/2018	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2019	30.00 Negotiated Bid	Lead Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
1/16/2018 1/27/2018 1/27/2018	(CHFA) Colorado Hsg & Fin Auth (CHFA)	Series B-1		Lead Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
1/16/2018 1/27/2018 1/27/2018 1/27/2018	(CHFA) Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA)	Series B-1 Single Family Mortgage Rev Bonds 2019 Series C	36.94 Negotiated Bid						
1/16/2018 1/27/2018 1/27/2018 1/27/2018 1/27/2018	(CHFA) Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA)	Series B-1 Single Family Mortgage Rev Bonds 2019 Series C Single Family Mortgage Rev Bonds 2019 Series B-2	20.00 Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer		AAA	NR	Single Family Housing	
1/16/2018 1/27/2018 1/27/2018 1/27/2018 1/27/2018 1/27/2018	(CHFA) Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth	Series B-1 Single Family Mortgage Rev Bonds 2019 Series C Single Family Mortgage Rev Bonds 2019		Sole Manager;Remarketing Agent;Credit		AAA A+;A+ AA	AA-;AA-	Single Family Housing Public Power General Purpose/ Public Imp	

12-42-010 10	New Hampshire	GO Capital Improvement Bonds 2018	63.41 Competitive Bid	Sole Manager	Aa1	AA	AA+	General Purpose/ Public Imp	
		Series A Affordable Housing Rev Bonds 2018 Series	29.47 Negotiated Bid	Co-Manager	Aa2	NR NR	NR	Multi Family Housing	
M	Mortgage Agcy	I .							
M	Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series	46.45 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
M	Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series	79.27 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;A a2		NR;NR;NR;NR;NR		
M	Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series I	32.57 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
	Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series J	40.08 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
	NYS Housing Fin- Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series J	12.43 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2	NR;NR;NR;NR	NR;NR;NR;NR	Multi Family Housing	
	Jpper Illinois River VIIy Dev Auth	Revenue Bonds Series 2018	74.59 Negotiated Bid	Lead Manager	NR	BBB+	NR	General Acute Care Hospital	
12/6/2018 M		Revenue Bonds Series R 2018	34.00 Negotiated Bid	Sole Manager;Remarketing	Aa2	AA-	NR	General Purpose/ Public Imp	
		Single Family Housing Rev Bonds Series	12.40 Negotiated Bid	Agent Co-Manager	Aa1	AA+	NR	Single Family Housing	
Fi	in Agcy	201							
Fi	in Agcy	Single Family Housing Rev Bonds Series 202	3.61 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	in Agcy	Single Family Housing Rev Bonds Series 203	12.33 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Grand Traverse Co Hosp Fin Auth	Revenue Bonds Series 2019 A & B	32.88 Negotiated Bid	Sole Manager	A1;A1	NR;NR	AA-;AA-	General Acute Care Hospital	
	Visconsin Hsg & Econ Dev Auth	Housing Revenue Bonds 2018 Series A	66.85 Negotiated Bid	Co-Manager	Aa3	AA	NR	Multi Family Housing	
12/7/2018 D	Delaware River Port Auth of PA NJ	Revenue & Refunding Bonds Series A & B of 2018	677.54 Negotiated Bid	Co-Manager	A2;A2	A+;A+	NR;NR	Seaports/ Marine Terminals	2.8
12/7/2018 D		Revenue Bonds Series C of 2018	22.97 Negotiated Bid	Co-Manager	A2	A+	NR	Seaports/ Marine Terminals	2.8
12/10/2018 Lo	os Angeles Dept Wtr &	Power System Revenue Bonds 2018 Series	391.20 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA;AA;AA	AA;AA;AA	Public Power	
12/11/2018 N	New York City-New York	D General Obligation Bonds Series D Subser	150.00 Negotiated Bid	Sole	Aa2	AA	AA	General Purpose/ Public Imp	0.1
		D-4		Manager;Remarketing Agent					
12/12/2018 N		State Personal Inc Tax Rev Bonds Series 2018 A	1,408.66 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	NR;NR;NR	AA+;AA+;AA+	General Purpose/ Public Imp	3.8
12/12/2018 N	NYS Dorm Authority	St Personal Income Tax Rev Bonds Series 2018 A	157.37 Negotiated Bid	Co-Manager	Aa1	NR	AA+	General Purpose/ Public Imp	0.4
12/12/2018 N	NYS Dorm Authority	State Personal Inc Tax Rev Bonds Series 2018 B	103.57 Negotiated Bid	Co-Manager	Aa1;Aa1	NR;NR	AA+;AA+	General Purpose/ Public Imp	3.6
	Univ of So Florida (USF)	Certificates of Participation Series 2018	30.14 Negotiated Bid	Co-Manager	A1;A1;A1;A1	A+;A+;A+;A+	NR;NR;NR;NR	Higher Education	2.8
12/13/2018 G		General & Power Revenue Bonds 2018	242.94 Negotiated Bid	Lead Manager	A1;A1;A1;A1	A;A;A;A	A-;A-;A-	Public Power	
		Series HH & A Housing Bonds 2018 Series D	51.24 Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
	Fin Agcy Massachusetts	GO Consolidated Loan & Ref Bonds 2019	868.32 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1	AA;AA;AA	AA+;AA+;AA+	General Purpose/ Public Imp	2.
		Series A & A GO Consolidated Loan Bonds 2019 Series	50.00 Negotiated Bid	Co-Manager	Aa1	AA	AA+	General Purpose/ Public Imp	0.
		В				NR .			1.
	Grand Traverse Co Hosp Fin Auth	Revenue Refunding Bonds Series 2019 C	22.30 Negotiated Bid	Sole Manager;Remarketing	A1	NK	AA-	General Acute Care Hospital	1.
		Transportation Program Bonds 2019 Series	750.00 Negotiated Bid	Agent Co-Manager		BBB+;BBB+;BBB+;BBB+;BB	A-;A-;A-;A-	Mass Transportation	3.
1/9/2019 C		AA Education Loan Program TRANs Series	325.00 Competitive Bid	Lead Manager	Baa1 NR;NR;NR;NR;NR;NR;	B+ NR;NR;NR;NR;NR;NR;NR;N		Primary & Secondary	
1/10/2019 S		2018 B Water System Jr Lien Rev Bonds Series	166.48 Negotiated Bid	Sole	NR;NR;NR;NR Aa2	R;NR;NR AA	;NR;NR;NR AA	Education Water & Sewer Facilities	2.
		2019 A		Manager;Remarketing Agent					
	San Francisco City & Co Airport Comm	Revenue Bonds 2nd Series 2019 C	88.75 Negotiated Bid	Co-Manager	A1	A+	A+	Airports	1.0
1/11/2019 S	San Francisco City & Co	Revenue Bonds 2nd Ser 2019 B & D	498.60 Negotiated Bid	Co-Manager	A1;A1	A+;A+	A+;A+	Airports	1.
1/11/2019 S		2nd Series Revenue Bonds Series 2019 A	1,176.22 Negotiated Bid	Co-Manager	A1;A1;A1;A1	A+;A+;A+	A+;A+;A+;A+	Airports	1.8
	Airport Comm Massachusetts Dev	Revenue Refunding Bonds Series S-1	116.45 Negotiated Bid	Lead Manager	A1	A+	NR	Higher Education	
		(2019) Highway System Rev Ref Bonds 2019	371.38 Negotiated Bid	Co-Manager	Aa2	AA	AA+	Toll Roads, Highways &	1.9
	Fransport	Series A Highway System Rev Ref Bonds 2019	51.23 Negotiated Bid	Co-Manager	Aa2	AA	AA+	Streets Toll Roads, Highways &	0.
Ti	Fransport	Series B-1 Highway System Rev Ref Bonds 2019	14.59 Negotiated Bid	Co-Manager	Aa2	AA	AA+	Streets Toll Roads, Highways &	0.
Ti	Fransport	Series B-2	35.03 Negotiated Bid	Sole	Aa2	NR	NR	Streets Multi Family Housing	1.
		Affordable Housing Rev Ref Bonds 2019 Series B		Manager;Remarketing		INI	NK.	wulli Family Housing	
4/46/001-	Pennsylvania Housing Fin			Agent;Credit Enhancer					1.
1/16/2019 P	acy (PHEA)	Single Family Mortgage Rev Bonds Series	100.00 Negotiated Bid	Agent;Credit Enhancer Co-Manager	Aa2	AA+	NR	Single Family Housing	
1/16/2019 P	Agcy (PHFA) Pennsylvania Housing Fin	2018-2018B Single Family Mortgage Rev Bonds Series		Enhancer	Aa2 Aa2	AA+	NR NR	Single Family Housing Single Family Housing	2.
1/16/2019 P A	Agcy (PHFA) Pennsylvania Housing Fin Agcy (PHFA) Miami-Dade Co-Florida	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series	100.00 Negotiated Bid	Enhancer Co-Manager					2.
1/16/2019 P A 1/16/2019 M	Agcy (PHFA) Pennsylvania Housing Fin Agcy (PHFA) Miami-Dade Co-Florida	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A	100.00 Negotiated Bid 101.60 Negotiated Bid	Enhancer Co-Manager Co-Manager	Aa2	AA+	NR	Single Family Housing	2.
1/16/2019 PA A 1/16/2019 M 1/17/2019 Le	Agcy (PHFA) Pennsylvania Housing Fin Agcy (PHFA) Miami-Dade Co-Florida Los Angeles Dept Wtr & Pwr (LADWP)	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2	AA+ AA-;AA-;AA- AA;AA;AA;AA	NR A+;A+;A+;A+ AA;AA;AA;AA	Single Family Housing Water & Sewer Facilities Public Power	2.
1/16/2019 PA A/ 1/16/2019 M 1/17/2019 Lo P 1/17/2019 M A/	Ago; (PHFA) Pennsylvania Housing Fin Ago; (PHFA) Miami-Dade Co-Florida Los Angeles Dept Wtr & Pwr (LADWP) Maine State Housing Authority	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series Mortgage Purchase Bonds 2019 Series A	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager	Aa2;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1	AA+ AA-;AA-;AA- AA;AA;AA AA+	NR A+;A+;A+;A+ AA;AA;AA;AA NR	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing	2. 2. 2.
1/16/2019 P. A: 1/16/2019 M 1/17/2019 Le P: 1/17/2019 M A: 1/17/2019 M A: 1/17/2019 N A:	Agoy (PHFA) Pennsylvania Housing Fin Agoy (PHFA) Miami-Dade Co-Florida Los Angeles Dept Wtr & Wr (LADWP) Maine State Housing Authority WYC Municipal Water Fin Auth	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2 Aa1 Aa1	AA+ AA-;AA-;AA- AA;AA;AA AA+ AA+ AA+	NR A+;A+;A+;A+ AA;AA;AA;AA NR AA+	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities	2.
A/1/16/2019 P/1/16/2019 M/1/16/2019 M/1/17/2019 M/A/1/17/2019 N/A/1/17/2019 N/A/1/2019 N/A/1/2	Agoy (PHFA) **Pennsylvania Housing Fin Agov (PHFA) **Williami-Dade Co-Florida .os Angeles Dept Wtr & **Per (LADWP) **Jaine State Housing **uthfority **WYC Municipal Water Fin **Juth **WYC Municipal Water Fin **Juth **WYC Municipal Water Fin **Juth	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Pover System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1	AA+ AA-;AA-;AA- AA,AA-;AA;AA AA+ AA+	NR A+;A+;A+;A+ AA;AA;AA NR AA+ AA+	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities Water & Sewer Facilities	2. 2. 2. 4.
A/1/16/2019 P/A/1/2019 M/A/1/2019 M/A/1/2019 M/A/1/17/2019 M/A/1/17/2019 N/A/1/17/2019 N/A/1/2019 N/	Agor (PHFA) ernensylvania Housing Fin Agor (PHFA) diami-Dade Co-Florida .os Angeles Dept Wtr & Awr (LADWP) diamie State Housing utuhority UYC Municipal Water Fin utuh	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries D0-1 Water & Sewer Sys Rev Bonds Subseries D0-2	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1 Aa1	AA+ AA-;AA-;AA- AA,AA-;AA- AA+ AA+ AA+ AA+ AA+	NR A+;A+;A+;A+ AA;AA;AA;AA NR AA+ AA+ AA+	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities	2 2 2 4 4 1 2 2
A, 1/16/2019 M 1/17/2019 M 1/17/2019 M 1/17/2019 N A 1/17/2019 N A 1/17/2019 N A 1/17/2019 N A 1/17/2019 M	Agor (PHFA) rennsylvania Housing Fin Agor (PHFA) Agor (2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries D0-1 Water & Sewer Sys Rev Bonds Subseries D0-2 Water & Sewer Sys Rev Bonds Subseries D0-2 GO Refunding Bonds 2019 Series B	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Co-Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1	AA+ AA-AA-AA-AA AA+ AA+ AA+ AA+ AA+ AA+	NR A+;A+;A+;A+ AA;AA;AA;AA NR AA+ AA+ AA+ AA+	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp	2 2 2 4. 1.
A, 1/16/2019 M 1/16/2019 M 1/17/2019 M 1/17/2019 M A, 1/17/2019 N A, 1/17/2019 N A, 1/17/2019 N A, 1/17/2019 M 1/24/2019 M	Agoy (PHFA) rennsylvania Housing Fin Agor (PHFA) diami-Dade Co-Florida Los Angeles Dept Wtr & Wr. (LADWP) Adiane State Housing Authority VYC Municipal Water Fin Auth Auth	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries D0-1 Water & Sewer Sys Rev Bonds Subseries D0-2	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1 Aa1	AA+ AA-;AA-;AA- AA,AA-;AA- AA+ AA+ AA+ AA+ AA+	NR A+;A+;A+;A+ AA;AA;AA;AA NR AA+ AA+ AA+	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities	2 2 2 4 4 1 2 2
A, 1/16/2019 P. 1/16/2019 M 1/17/2019 L P. P. 1/17/2019 M A 1/17/2019 N A 1/17/2019 M A 1/17/2019 M Fi 1/28/2019 M Fi 1/28/2019 M	Agoy (PHFA) rennsylvania Housing Fin Agor (PHFA) diami-Dade Co-Florida Los Angeles Dept Wtr & Wr. (LADWP) Adiane State Housing Authority VYC Municipal Water Fin Auth Atty C Municipal Water Fin Auth Atty C Municipal Water Fin Auth Atty C Municipal Water Fin Auth Auth Atty C Municipal Water Fin Auth Auth Atty C Municipal Water Fin Auth Adassachusetts Massachusetts Massachusetts Dev "innance Agoy Monicipal Power Agor Power Agor Power Agor Power Mareiran Municipal Power	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries D0-1 Water & Sewer Sys Rev Bonds Subseries D0-2 Water & Sewer Sys Rev Bonds Subseries D0-2 GO Refunding Bonds 2019 Series B	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Co-Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1	AA+ AA-AA-AA-AA AA+ AA+ AA+ AA+ AA+ AA+	NR A+;A+;A+;A+ AA;AA;AA;AA NR AA+ AA+ AA+ AA+	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp	2 2 2 4. 1.
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A 1/16/2019 M 1/16/2019 M 1/17/2019 L 1/17/2019 M 1/17/2019 N 1/17/2019 N 1/17/2019 M 1/24/2019 M 1/24/2019 M 1/24/2019 M 1/24/2019 M 1/24/2019 A 1/24/2019 A 1/24/2019 A 2/1/2019 A 2/1/2019 M 1/24/2019 A 2/1/2019 M 1/24/2019 A 2/1/2019 M 1/24/2019 M 2/24/2019 M 2/24/201	Agoy (PHFA) rennsylvania Housing Fin Agor (PHFA) diami-Dade Co-Florida Los Angeles Dept Wtr & Wr. (LADWP) Aliane State Housing Authority VYC Municipal Water Fin Auth Atty C Municipal Water Fin Auth Atty C Municipal Water Fin Auth Atty C Municipal Water Fin Auth Auth Atty C Municipal Water Fin Auth Adassachusetts Assachusetts Assachusetts Assachusetts Assachusetts Assachusetts Aderson Agor Authority Autho	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2 GOR Refunding Bonds 2019 Series B Revenue Bonds 2019 Series B Revenue Bonds Series T1 (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A A Transportation Revenue BANs Series 2019 A A Hortotable Housing Ref Rev Bonds 2019	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 39.47 Negotiated Bid 30.00 Negotiated Bid 70.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 188.46 Negotiated Bid 525.00 Competitive Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 NR A1 NR	AA+ AA-AA-AA-AA AA+ AA+ AA+ AA+ AA+ AA+	NR A+;A+;A+;A+ AA;AA;AA;AA NR AA+ AA+ AA+ AA+ AA+ AA+ AA+ NR A NR	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation	2 2 2 4 4 1 1 2 2 2
A 1/16/2019 M 1/16/2019 M 1/17/2019 L 1/17/2019 M A 1/17/2019 N A 1/17/2019 M 1/24/2019 M 1/24/2019 M 1/24/2019 M 1/31/2019 M 2/1/2019 M 2/1/2019 M 2/1/2019 N 2/1/2019 N 2/1/2019 N	Agor (PHFA) rennsylvania Housing Fin Agor (PHFA) daro (PHFA) diami-Dade Co-Florida Los Angeles Dept Wtr & wr (LADWP) daine State Housing uthority VC Municipal Water Fin uth vd WYC Municipal Water Fin uth vd WyC Municipal Water Fin uth dassachusetts Dev rinance Agory manerac Municipal Power nc metropolitan Transportation uthority vdefropolitan Transportation uthority vdes Agord vderropolitan Transportation uthority vdes Agord vderropolitan Transportation uthority vderropolitan Transportation uthority vders Agord vderropolitan Transportation	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Water & Sewer System Sever Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2 GO Refunding Bonds 2019 Series B Revenue Bonds 2019 Series B Revenue Bonds Series T1 (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 A	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 39.47 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 NR NR NR	AA+ AA-AA-AA-AA AA+ AA+ AA+ AA+ AA+ AA+	NR A+:A+:A+:A+ AA:AA:AA:AA NR AA+ AA+ AA+ AA+ AA+ AA+ AA+ NR A NR NR NR	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Mass Transportation	2 2 2 4 1 1 2 2 2 0 0 0 0
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1/16/2019 L 1/16/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 M A 1/17/2019 M 1/28/2019 M 1/31/2019 M 2/5/2019 W 2/5/2019 W 2/5/2019 W	Agoy (PHFA) rennsylvania Housing Fin Agor (PHFA) diami-Dade Co-Florida Los Angeles Dept Wtr & Wr (LADWP) diami-Bade Co-Florida Los Angeles Dept Wtr & Wr (LADWP) diamie State Housing luthority VCM Municipal Water Fin luth VCM Municipal Water Fin luth dassachusetts Massachusetts Massachuset	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2 GOR Refunding Bonds 2019 Series B Revenue Bonds Series T1 (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 A Affordable Housing Ref Rev Bonds 2019 Affordable Housing Ref Rev Bonds 2019 Affordable Housing Ref Rev Bonds 2019 Carles College Colle	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 39.47 Negotiated Bid 30.00 Negotiated Bid 70.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 466.92 Competitive Bid 36.91 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa3;Aa3;Aa3,Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 NR NR NR AA2 Aa2 Aa1 A1 NR:NR:NR	AA+ AA-AA-AA-AA AA+ AA+ AA+ AA+ AA AA NR NR NR NR NR NR NR AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA	NR A+:A+:A+:A+ AAAA:AA:AA NR AA+ AA+ AA+ AA+ AA+ NR NR NR NR NR NR NR NR NR AA+ NR AA+ NR AA+ AA+ NR AA+ AA+ AA+ AA+ NR NR AA- AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power	2 2 2 4 4 1 1 2 2 2 2 0 0 0 0 2 2 2 2
1/16/2019 A 1/16/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 A 1/17/2019 A 1/17/2019 A 1/17/2019 B 1/28/2019 M 1/31/2019 M 2/5/2019 W 2/5/2019 W 2/5/2019 G 2/6/2019 G	Agoy (PHFA) rennsylvania Housing Fin Acov (PHFA) diami-Dade Co-Florida Los Angeles Dept Wtr & Wr (LADWP) diami-Bade Co-Florida Los Angeles Dept Wtr & Wr (LADWP) diamie State Housing luthority VYC Municipal Water Fin luth VYC Municipal Water Fin luth dassachusetts Massachusetts Dev rinance Accv los	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019-128A Water & Sewer System Revenue Bonds 2019 Series A Water & Sewer System Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2 GOR Refunding Bonds 2019 Series B Revenue Bonds Series T1 (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A A Affordable Housing Ref Rev Bonds 2019 A Affordable Housing Ref Rev Bonds 2019 Careurous Bonds Series 2019 C Revenue Bonds Series 2019 Rel Lighting Electric Utility Sys Rev Ref Bond New Series 2019 Refunding Electric Rev Bonds Issue of 2019	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 466.92 Competitive Bid 36.91 Negotiated Bid 147.61 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa3;Aa3;Aa3,Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 NR NR A1 NR NR A2 Aa2 Aa1 A1 NR	AA+ AA-AA-AA-AA AA+ AA+ AA+ AA+ AA NR NR NR NR NR NR AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA	NR A+:A+:A+:A+ AAAA:AA:AA NR AA+ AA+ AA+ AA+ AA+ NR A NR NR NR NR NR NR NR AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA- AA- AA-	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Public Power	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1
1/16/2019 P 1/17/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 A 1/17/2019 A 1/17/2019 M 1/28/2019 M 1/28/2019 M 2/5/2019 W 2/5/2019 W 2/5/2019 G 2/5/2019 G 2/6/2019 C	Agor (PHFA) remnsylvania Housing Fin Agor (PHFA) diami-Dade Co-Florida Los Angeles Dept Wtr & Wr (LADWP) diami-Dade Co-Florida Los Angeles Dept Wtr & Wr (LADWP) diamie State Housing luthority VCM Municipal Water Fin luth VCM Municipal Water Fin luth diamie State Housing luthority WCM Municipal Water Fin luth dassachusetts Massachusetts Dev rinance Accv Washington Massachusetts Dev rinance Accv Washington Massachusetts Dev rinance Accv Washington Massachusetts Dev rinance Accy Sarland City-Texas Riverside City-California Connecticut Housing & Fin Muth (CHFA)	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019-128A Water & Sewer System Revenue Bonds 2019 Series A Water & Sewer System Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2 GO Refunding Bonds 2019 Series B Revenue Bonds Series T1 (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 A Affordable Housing Ref Rev Bonds 2019 Series C Various Purpose GO Bonds Series 2019 C Revenue Bonds Series S-2 (2019) Electric Utility Sys Rev Ref Bond New Series 2019 Refunding Electric Rev Bonds Issue of 2019 A Housing Mortgage Fin Prog Bonds 19 Ser A Subser A-4 Housing Mortgage Fin Prog Bonds 19 Ser A	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 466.92 Competitive Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 283.33 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 NR NR A1 NR NR NR A2 Aa1 A1 NR NR A2 Aa1 A1	AA+ AA-AA-AA-AA AA+ AA+ AA+ AA+ AA AA NR NR NR NR NR NR AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA	NR A+:A+:A+:A+ AAAA:AA:AA NR AA+ AA+ AA+ AA+ NR A NR	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Public Power Single Family Housing	2 2 2 4 4 1 1 2 2 2 2 2 2 2 2 1 1 1 1
1/16/2019 P 1/17/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 A 1/17/2019 A 1/17/2019 M 1/28/2019 M 1/28/2019 M 2/5/2019 W 2/5/2019 G 2/6/2019 C 2/6/2019 C	Agoy (PHFA) remnsylvania Housing Fin Acov (PHFA) diami-Dade Co-Florida Los Angeles Dept Wtr & Wr. (LADWP) diami-Bade Co-Florida Los Angeles Dept Wtr & Wr. (LADWP) diamie State Housing uthority YCM Municipal Water Fin uth VYC Municipal Water Fin uth diamie State Housing uthority WCM Municipal Water Fin uth uth diamsachusetts Dev rinance Accv Accv invanica Municipal Power fice finance Accv Washington Massachusetts Dev rinance Accv Washington Massachusetts Massachusetts	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019-128A Water & Sewer System Revenue Bonds 2019 Series A Water & Sewer System Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2 GO Refunding Bonds 2019 Series B Revenue Bonds Series T1 (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 A Affordable Housing Ref Rev Bonds 2019 Series C0 Various Purpose GO Bonds Series 2019 C Revenue Bonds Series S-2 (2019) Ellectric Utility Sys Rev Ref Bond New Series 2019 A Housing Mortgage Fin Prog Bonds 19 Ser A Subser A-1 Housing Mortgage Fin Prog Bonds 19 Ser A Subser A-1 Housing Mortgage Fin Prog Bonds 19 Ser A Subser A-1	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 39.47 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 466.92 Competitive Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 283.33 Negotiated Bid 283.33 Negotiated Bid	Enhancer Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 An1 NR NR A1 NR NR NR A2 Aa1 A1 A1 NR;NR;NR NR A2 Aa1 A1	AA+ AA-AA-AA-AAA-AAA-AAA-AAA-AAA-AAA-AAA	NR A+:A+:A+:A+ AAAA:AA NR AA+ AA+ AA+ AA+ NR	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Single Family Housing Single Family Housing Single Family Housing	2 2 2 4 4 1 1 2 2 2 2 2 2 2 2 1 1 1 1
1/16/2019 L 1/16/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 L 1/17/2019 M A 1/24/2019 M 1/28/2019 M 2/5/2019 W 2/5/2019 G 2/6/2019 C 2/6/2019 C	Agor (PHFA) representation and tousing Fin Agor (PHFA)	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries A Water & Sewer Sys Rev Bonds Subseries De. Water & Sewer Sys Rev Bonds Subseries De. GO Refunding Bonds 2019 Series B Revenue Bonds Series T1 (2019) Revenue Refunding Bonds 2019 Series B Revenue Bonds Series T1 (2019) A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 Alfordable Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bonds 2019 Alfordable Bonds Series Series 2019 C Revenue Bonds Series 2019 A Revenue Bonds 2019 Series 2019 C Revenue Bonds 2019 Series 2019 S Revenue Bonds 2019 S Revenue Bonds 2019 Series 2019 S Revenue Bonds 2019 S Revenue Bond	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 466.92 Competitive Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 283.33 Negotiated Bid	Enhancer Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 NR NR A1 NR NR NR A2 Aa1 A1 NR NR A2 Aa1 A1	AA+ AA-AA-AA-AA AA+ AA+ AA+ AA+ AA AA NR NR NR NR NR NR AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA	NR A+:A+:A+:A+ AAAA:AA:AA NR AA+ AA+ AA+ AA+ NR A NR	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Public Power Single Family Housing	2 2 2 2 4 4 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1
1/16/2019 P. 1/17/2019 L. 1/17/2019 L. 1/17/2019 L. 1/17/2019 N. A. 1/17/2019 N. A. 1/17/2019 N. 1/24/2019 M. 1/24/2019 M. 1/24/2019 M. 1/24/2019 M. 2/1/2019 M.	Agor (PHFA) representation and tousing Fin Agor (PHFA)	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries Dot-1 Water & Sewer Sys Rev Bonds Subseries Dot-2 Water & Sewer Sys Rev Bonds Subseries Dot-2 GO Refunding Bonds 2019 Series B Revenue Bonds Series T1 (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANIs Series 2019 A Transportation Revenue BANIs Series 2019 Alfordable Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bond Series 2019 C Revenue Bonds Series S-2 (2019) Electric Lillist Sys Rev Ref Bond New Series C3 Housing Mortgage Fin Prog Bonds 19 Ser A Subser A-4 Housing Mortgage Fin Prog Bonds 19 Ser A Subser A-1 Multi-Family Housing Rev Bonds 2019 Series A-3 A & B Lease Revenue Ref Bonds Series 2019	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 39.47 Negotiated Bid 30.00 Negotiated Bid 70.00 Negotiated Bid 70.00 Negotiated Bid 80.00 Private Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 466.92 Competitive Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 15.00 Negotiated Bid 15.00 Negotiated Bid 172.98 Negotiated Bid 149.77 Negotiated Bid 149.77 Negotiated Bid	Enhancer Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager	Aa2 Aa3:Aa3:Aa3:Aa3 Aa2:Aa2:Aa2:Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 NR NR A1 NR NR NR NR Aa2 Aa1 A1 NR:NR;NR;NR NR NR A1 A1 NR:NR,NR NR A2 A31 A1 NR:NR,NR	AA+ AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-	NR A+;A+;A+;A+ AA;AA;AA NR AA+ AA+ AA+ AA+ AA+ AA+ NR A NR	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Single Family Housing Single Family Housing Multi Family Housing Multi Family Housing Single Family Housing	2 2 2 4 4 1 1 2 2 2 2 0 0 0 0 0 1 1 1 1 1 5 5 2 2 2 2 2 2 2 1 1 1 1 5 5 2 2 2 2
1/16/2019 P. 1/17/2019 L. 1/17/2019 L. 1/17/2019 L. 1/17/2019 N. A. 1/17/2019 N. A. 1/17/2019 N. 1/24/2019 M. 1/24/2019 M. 1/24/2019 M. 1/24/2019 M. 2/1/2019 M. 2/1/2/2019 M.	Agor (PHFA) representation and tousing Fin Agor (PHFA)	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries Dougle Series Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries Dougle Series Revenue Bonds Subseries Dougle Series Revenue Bonds Subseries Dougle Series Ti (2019) Revenue Bonds Series 2019 Series B Revenue Bonds Series Ti (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Rotradale Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bond Series 2019 C Revenue Bonds Series S-2 (2019) Electric Lillist Sys Rev Ref Bond New Series C3 Various Progage Fin Prog Bonds 19 Ser A Subser A-4 Housing Mortgage Fin Prog Bonds 19 Ser A Subser A-1 Multi-Family Housing Rev Bonds 29 Series A-3 A & B Lease Revenue Ref Bonds Series 2019 Lid Tx Sales Tax Revenue Bonds Series 2019	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 80.00 Private Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 15.00 Negotiated Bid 15.00 Negotiated Bid 15.00 Negotiated Bid 15.00 Negotiated Bid 172.98 Negotiated Bid 149.77 Negotiated Bid 149.77 Negotiated Bid 227.88 Negotiated Bid 227.88 Negotiated Bid 227.88 Negotiated Bid	Enhancer Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager	Aa2 Aa3:Aa3:Aa3:Aa3 Aa2:Aa2:Aa2:Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 NR NR A1 NR NR NR Aa2 Aa1 A1 A1 A1 A1 A1 NR:NR:NR:NR NR A1 NR:NR NR A2 A31 A34	AA+ AA-AA-AA-AA-AA-AAA AA+ AA+ AA+ AA+ A	NR A+;A+;A+;A+ AA,:AA;AA NR AA+ AA+ AA+ AA+ AA+ NR A NR NR NR NR NR NR NR NR	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Single Family Housing Single Family Housing Multi Family Housing Multi Family Housing Office Buildings Toll Roads, Highways & Streets	2 2 2 4 4 1 1 2 2 2 0 0 0 0 0 1 1 1 1 5 5 2 2 2 2 2 2 2 2 2 2 1 1 1 5 5 2 2 2 2
1/16/2019 P. 1/17/2019 M. 1/17/2019 M. 1/17/2019 M. 1/17/2019 M. 1/17/2019 M. 1/17/2019 M. 1/24/2019 M. 1/24/2019 M. 1/24/2019 M. 2/12/2019 M. 2/12/	Agor (PHFA) remnsylvania Housing Fin Agor (PHFA) Agor (2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2 GO Refunding Bonds 2019 Series B Revenue Bonds Subseries Brevenue Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 A Alfordable Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bonds Series C1 Various Purpose GO Bonds Series 2019 C Revenue Bonds Series S2 (2019) Electric Utility Sys Rev Ref Bond New Series 2019 Refunding Electric Rev Bonds Issue of 2019 Refunding Electric Rev Bonds 19 Ser A Subser A Subser A Subser A Water Sacres 2019 Educational Facs Rev Bonds Series 2019	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 466.92 Competitive Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 172.98 Negotiated Bid 172.98 Negotiated Bid 149.77 Negotiated Bid 149.77 Negotiated Bid 227.88 Negotiated Bid 376.69 Negotiated Bid 376.69 Negotiated Bid 376.69 Negotiated Bid	Enhancer Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager Lead Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1	AA+ AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-	NR A+;A+;A+;A+ AA,:AA;AA;AA NR AA+ AA+ AA+ AA+ AA+ NR NR NR NR NR NR NR NR NR N	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Single Family Housing Single Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Office Buildings Toil Roads, Highways & Streets Higher Education	2 2 2 4 4 1 1 2 2 2 0 0 0 0 0 1 1 1 1 5 5 2 2 2 2 2 2 2 2 2 2 1 1 1 5 5 2 2 2 2
1/16/2019 P 1/16/2019 M 2/16/2019 M 2/16/2	Agor (PHFA) remnsylvania Housing Fin Agor (PHFA) Agor (2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries Dougle Series Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries Dougle Series Revenue Bonds Subseries Dougle Series Revenue Bonds Subseries Dougle Series Ti (2019) Revenue Bonds Series 2019 Series B Revenue Bonds Series Ti (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Rotradale Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bond Series 2019 C Revenue Bonds Series S-2 (2019) Electric Lillist Sys Rev Ref Bond New Series C3 Various Progage Fin Prog Bonds 19 Ser A Subser A-4 Housing Mortgage Fin Prog Bonds 19 Ser A Subser A-1 Multi-Family Housing Rev Bonds 29 Series A-3 A & B Lease Revenue Ref Bonds Series 2019 Lid Tx Sales Tax Revenue Bonds Series 2019	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 80.00 Private Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 15.00 Negotiated Bid 15.00 Negotiated Bid 15.00 Negotiated Bid 15.00 Negotiated Bid 172.98 Negotiated Bid 149.77 Negotiated Bid 149.77 Negotiated Bid 227.88 Negotiated Bid 227.88 Negotiated Bid 227.88 Negotiated Bid	Enhancer Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager	Aa2 Aa3:Aa3:Aa3:Aa3 Aa2:Aa2:Aa2:Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 NR NR A1 NR NR NR Aa2 Aa1 A1 A1 A1 A1 A1 NR:NR:NR:NR NR A1 NR:NR NR A2 A31 A34	AA+ AA-AA-AA-AA-AA-AAA AA+ AA+ AA+ AA+ A	NR A+;A+;A+;A+ AA,:AA;AA NR AA+ AA+ AA+ AA+ AA+ NR A NR NR NR NR NR NR NR NR	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Single Family Housing Single Family Housing Multi Family Housing Multi Family Housing Office Buildings Toll Roads, Highways & Streets	2. 2. 4. 1. 2. 2. 0. 0. 1. 1. 5. 5. 2.
1/16/2019 P. 1/17/2019 N. 1/28/2019 M. 1/28/2019 M. 2/1/2019 M. 2/1/2019 M. 2/1/2019 M. 2/1/2019 N. 2/1/	Agor (PHFA) rennsylvania Housing Fin Agor (PHFA) Agor (2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2 GO Refunding Bonds 2019 Series B Revenue Bonds Subseries Brevenue Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 A Alfordable Housing Ref Rev Bonds 2019 Alfordable Housing Ref Rev Bonds Series C1 Various Purpose GO Bonds Series 2019 C Revenue Bonds Series S2 (2019) Electric Utility Sys Rev Ref Bond New Series 2019 Refunding Electric Rev Bonds Issue of 2019 Refunding Electric Rev Bonds 19 Ser A Subser A Subser A Subser A Water Sacres 2019 Educational Facs Rev Bonds Series 2019	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 466.92 Competitive Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 172.98 Negotiated Bid 172.98 Negotiated Bid 149.77 Negotiated Bid 149.77 Negotiated Bid 227.88 Negotiated Bid 376.69 Negotiated Bid 376.69 Negotiated Bid 376.69 Negotiated Bid	Enhancer Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager Lead Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1	AA+ AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-	NR A+;A+;A+;A+ AA,:AA;AA;AA NR AA+ AA+ AA+ AA+ AA+ NR NR NR NR NR NR NR NR NR N	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Single Family Housing Single Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Office Buildings Toil Roads, Highways & Streets Higher Education	2. 2. 4. 1. 2. 2. 0. 0. 1. 1. 5. 5. 2.
1/16/2019 M 1/17/2019 L 1/17/2019 M 1/17/2019 M 1/17/2019 N 1/17/2019 N 1/17/2019 N 1/17/2019 N 1/12/2019 M 1/24/2019 M 1/24/2019 M 1/24/2019 M 1/24/2019 M 1/24/2019 M 1/24/2019 M 2/1/2019 M 2/1/201	Agor (PHFA) remnsylvania Housing Fin Agor (PHFA) Agor	2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019 Power System Revenue Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2 GO Refunding Bonds 2019 Series B Revenue Bonds Subseries DP-2 GO Refunding Bonds 2019 Series B Revenue Bonds Series T1 (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Power System System Sonds Subseries DP-2 GO Refunding Bonds Series 2019 A Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Power System S	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 466.92 Competitive Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 127.98 Negotiated Bid 12.98 Negotiated Bid 12.98 Negotiated Bid 149.77 Negotiated Bid 149.77 Negotiated Bid 376.69 Negotiated Bid 376.69 Negotiated Bid 376.69 Negotiated Bid 93.71 Negotiated Bid	Enhancer Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa3;Aa3;Aa3;Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 An1 NR An1 NR NR Aa2 Aa1 A1 NR;NR;NR NR Aa2 Aa1 A1	AA+ AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-	NR A+:A+:A+:A+ AA:A+:AA:AA NR AA+ AA+ AA+ AA+ AA+ NR NR NR NR NR NR NR NR NR N	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Single Family Housing Single Family Housing Multi Family Housing Multi Family Housing Single Family Housing Multi Family Housing Toil Roads, Highways & Streets Higher Education Higher Education Higher Education	2.3 2.3 2.3 4.4 1.3 2.3 2.3 0.3 2.4 2.4 1.3 1.4 1.5 1.5 1.4 2.1 2.1 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1
1/16/2019 M 1/17/2019 L 1/17/2019 M 1/2/2019 M 1/2/2019 M 1/2/2019 M 1/2/2019 M 2/12/2019 M	Agoy (PHFA) remnsylvania Housing Fin Agor (PHFA) Agor (2018-2018B Single Family Mortgage Rev Bonds Saries 2019-128A Water & Sewer System Rev Bonds Series 2019-129A Water & Sewer System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries Do-1 Water & Sewer Sys Rev Bonds Subseries D0-2 Water & Sewer Sys Rev Bonds Subseries D0-2 GOR Retunding Bonds 2019 Series B Revenue Bonds Series B Revenue Bonds Series T1 (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 A Transportation Revenue BANs Series 2019 A Mortgage Fin Prog Bonds 2019 Series Revenue Refunding Bonds Series 2019 Biolitical Series Bonds Series Series Series 2019 Biolitical Series Bonds Series Series Series Bonds Series 2019 Biolitical Series Bonds Series Series 2019 Biolitical Series Bonds Series Series 2019 Biolitical Series Bonds Series Series Bonds Series Series Bonds Bonds Bonds Series Bonds	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 345.00 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 225.00 Competitive Bid 225.00 Competitive Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 147.69 Negotiated Bid 15.00 Negotiated Bid 16.00 Negotiated Bid 17.98 Negotiated Bid 16.00 Negotiated Bid 17.98 Negotiated Bid 18.01 Negotiated Bid 18.01 Negotiated Bid 19.01 Negotiated Bid 19.01 Negotiated Bid 16.00 Negotiated Bid 16.01 Negotiated Bid 16.02 Negotiated Bid 16.03 Negotiated Bid 16.04 Negotiated Bid 16.05 Negotiated Bid	Enhancer Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Sole Manager	Aa2 Aa3:Aa3:Aa3:Aa3 Aa2:Aa2:Aa2:Aa2 Aa1	AA+ AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-	NR A+;A+;A+;A+ AA,A+;AA;AA NR AA+ AA+ AA+ AA+ NR A NR NR NR NR NR NR NR NR	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Public Power Single Family Housing Single Family Housing Multi Family Housing Multi Family Housing Office Buildings Toll Roads, Highwaye & Streets Higher Education Industrial Development	2: 2: 4.1 1.1 2: 2.0 0.0 0.1 2.1 1.1 1.1 5.1
1/16/2019 P A A 1/17/2019 L A A 1/17/2019 L A A 1/17/2019 L A A 1/17/2019 M A A 1/17/2019 M A 1/17/2019 M A 1/17/2019 M A 1/24/2019 M 1/28/2019 M 2/12/2019 M 2/12/2019 G A 2/17/2019 M A 2/17/2019 M A 1/24/2019 M A 1/24/2019 M A 2/17/2019 M	Agoy (PHFA) remnsylvania Housing Fin Agor (PHFA) Agor (2018-2018B Single Family Mortgage Rev Bonds Series 2019-128A Water & Sewer System Rev Bonds Series 2019-128A Water & Sewer System Revenue Bonds 2019 Series A Mortgage Purchase Bonds 2019 Series A Water & Sewer Sys Rev Bonds Subseries DD-1 Water & Sewer Sys Rev Bonds Subseries DD-2 Water & Sewer Sys Rev Bonds Subseries DD-2 GO Refunding Bonds 2019 Series B Revenue Bonds Series T1 (2019) Revenue Bonds Series T2 (2019) Revenue Refunding Bonds Series 2019 A Transportation Revenue BANs Series 2019 AND Series CO Series Series 2019 A Series CO Series Series 2019 C Revenue Bonds Series 2019 C Revenue Bonds Series Series 2019 C Redunding Electric Rev Bonds New Series 2019 Lid TX Sales Tax Revenue Bonds 19 Ser A Sobser A Sob	100.00 Negotiated Bid 101.60 Negotiated Bid 233.31 Negotiated Bid 345.85 Negotiated Bid 345.85 Negotiated Bid 39.47 Negotiated Bid 345.00 Negotiated Bid 60.00 Negotiated Bid 70.00 Negotiated Bid 77.95 Negotiated Bid 80.00 Private Bid 168.46 Negotiated Bid 525.00 Competitive Bid 225.00 Competitive Bid 134.39 Negotiated Bid 466.92 Competitive Bid 36.91 Negotiated Bid 147.61 Negotiated Bid 147.61 Negotiated Bid 149.77 Negotiated Bid 12.98 Negotiated Bid 149.77 Negotiated Bid 149.77 Negotiated Bid 149.77 Negotiated Bid 376.89 Negotiated Bid	Enhancer Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa3;Aa3;Aa3,Aa3 Aa2;Aa2;Aa2;Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 NR NR AA2 Aa1 Aa1 Aa1 NR NR NR Aa2 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa2 Aa2 Aa3 Aa2,Aa2,Aa3;Aaa Aa2,Aa2 NR NR NR AA2 Aa1 A1 A1 A1 A1 A1 A1 A2 A2 A34	AA+ AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-	NR A+:A+:A+:A+ AA:AA:AA:AA NR AA+ AA+ AA+ AA+ AA+ NR NR NR NR NR NR NR NR NR N	Single Family Housing Water & Sewer Facilities Public Power Single Family Housing Water & Sewer Facilities General Purpose/ Public Imp General Acute Care Hospital Public Power Mass Transportation Multi Family Housing General Purpose/ Public Imp Higher Education Public Power Single Family Housing Single Family Housing Single Family Housing Multi Family Housing Multi Family Housing Single Family Housing Multi Family Housing Toll Roads, Highways & Streets Higher Education Higher Education Higher Education Higher Education	

2/14/2019	Texas Transportation	Revenue Bonds Series 2019 A	144.09 Negotiated Bid	Co-Manager	Baa3	NR	NR	Toll Roads, Highways &	3.78
	Commission Texas Transportation	Revenue Bonds Series 2019 A	92.37 Negotiated Bid	Co-Manager	Baa3	NR	NR	Streets Toll Roads, Highways &	2.42
	Commission Massachusetts Dev	Revenue Refunding Bonds Series 2019	80.96 Negotiated Bid	Co-Manager	Baa2	NR	BBB	Streets Higher Education	
	Finance Agcy Illinois Housing Dev	Revenue Bonds 2019 Series A	66.75 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa	NR;NR;NR	NR;NR;NR	Single Family Housing	6.33
	Authority		16.43 Negotiated Bid	Sole Manager	NR .	A-	NR	General Purpose/ Public Imp	0.00
	Corp	2019 A							
	Corp	Conveyed Tax Securitization Bonds Series 2019 B	63.54 Negotiated Bid	Sole Manager	NR	A-	NR	General Purpose/ Public Imp	
	California	GO Var Purpose & Ref Bonds	1,791.81 Negotiated Bid	Co-Manager	Aa3;Aa3	AA-;AA-	AA-;AA-	General Purpose/ Public Imp	2.04
3/6/2019	California	Various Purpose GO Ref Bonds	500.04 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	General Purpose/ Public Imp	0.57
	San Francisco City/Co Public Util Comm	Commercial Paper Ntoes Serie A-1 & 2	250.00 Negotiated Bid	Lead Manager;Remarketing Agent;Remarketing Agent	NR;NR	NR;NR	NR;NR	Public Power	
3/7/2019	New York City-New York	General Obligation Bonds Series E & F-1	915.23 Negotiated Bid	Co-Manager	Aa1;Aa1	AA;AA	AA;AA	General Purpose/ Public Imp	
	Regents of the University	General Revenue Bonds 2019 Series BB	114.41 Negotiated Bid	Lead Manager	Aa2;Aa2	AA;AA	AA;AA	Higher Education	2.86
	of California Regents of the University	General Revenue Bonds 2019 Series BC &	538.65 Negotiated Bid	Lead Manager	Aa2;Aa2	AA;AA	AA;AA	Higher Education	2.38
	of California Colorado Hsg & Fin Auth	BD Single Family Mortgage Rev Bonds 2019	93.24 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
	(CHFA) Virginia Public Building	Series E Public Facilities Revenue Bonds Series	178.11 Competitive Bid	Sole Manager	Aa1	AA+	AA+	General Purpose/ Public Imp	
	Auth Ohio Higher Ed Fac	2019 A Revenue Refunding Bonds Series 2019 A	68.16 Negotiated Bid	Co-Manager	A1	AA-	NR	Higher Education	2.28
	Commission NYS Housing Fin-			Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;A		NR;NR;NR;NR;NR;NR		2.20
	Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series D	45.60 Negotiated Bid		a2				
	NYS Housing Fin- Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series D	52.25 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
	NYS Housing Fin- Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series D	27.57 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
	NYS Housing Fin- Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series	23.83 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;A a2	NR;NR;NR;NR;NR	NR;NR;NR;NR;NR	Multi Family Housing	
/13/2019	NYS Housing Fin-	Affordable Housing Rev Bonds 2019 Series	22.40 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
	Mortgage Agcy NYS Housing Fin-	Affordable Housing Rev Bonds 2019 Series	9.10 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
13/2019	Mortgage Agcy NYS Housing Fin-	E Affordable Housing Rev Bonds 2019 Series	22.57 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
	Mortgage Agcy Lower Colorado River	E Transmission Contract Rev Bonds Series	263.71 Negotiated Bid	Co-Manager	NR	A	A+	Public Power	1.87
	Authority (LCRA) Lower Colorado River	2019 Transmission Contract Rev Bonds Series	129.31 Negotiated Bid	Co-Manager	NR;NR;NR	A;A;A	A+;A+;A+	Public Power	0.91
	Authority (LCRA)	2019	•						
	Missoula City-Montana	Water System Revenue Bonds Series 2019 A	96.68 Negotiated Bid	Sole Manager	NR;NR;NR	A+;A+;A+	NR;NR;NR	Water & Sewer Facilities	6.90
	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2019 Series A	233.93 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;A a2	. AA+;AA+;AA+;AA+;AA+	NR;NR;NR;NR;NR	Single Family Housing	
	Chicago City-Illinois	General Obligation Bonds Series 2019 A	721.98 Negotiated Bid	Lead Manager	NR;NR;NR	BBB+;BBB+;BBB+	BBB-;BBB-;BBB-	General Purpose/ Public Imp	
		Future Tax Secured Sub Bonds 2019	850.00 Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
	Auth Connecticut	Subseries C-1 General Obligation Bonds 2019 Series A-1	48.51 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.27
29/2019	Connecticut	General Obligation Bonds 2019 Series A-1	159.46 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	2.19
29/2019	Connecticut	General Obligation Bonds 2019 Series A-2	95.00 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.53
	Connecticut	General Obligation Bonds 2019 Series A-3	316.63 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	1.75
	Connecticut	General Obligation Bonds 2019 Series A-4	32.58 Negotiated Bid	Lead Manager	A1;A1	A;A	A+;A+	General Purpose/ Public Imp	0.18
/29/2019	Connecticut	General Obligation Bonds 2019 Series A-5	152.62 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	8.44
/29/2019	Connecticut	General Obligation Bonds 2019 Series A-6	8.20 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.05
/29/2019	Connecticut	General Obligation Bonds 2019 Series A-7	96.47 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.53
29/2019	Connecticut	General Obligation Bonds 2019 Series A-2	6.91 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.09
29/2019	Connecticut	General Obligation Bonds 2019 Series A-3	67.64 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.93
/29/2019	Connecticut	General Obligation Bonds 2019 Series A-4	1.50 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.02
/29/2019	Connecticut	General Obligation Bonds 2019 Series A-5	14.50 Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.20
4/2/2010	Wisconsin Public Finance	Hospital Revenue Bonds Series 2019 A	207.65 Negotiated Bid	Lead Manager	A2;A2;A2	NR;NR;NR	A+;A+;A+	General Acute Care Hospital	
	Auth	·	125.01 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA:AA:AA	NR;NR;NR	Higher Education	
	Arizona Board of Regents Arizona Board of Regents	System Revenue Bonds Serues 2019 A System Revenue Bonds Serues 2019 B	69.45 Negotiated Bid	Co-Manager Co-Manager	Aa2;Aa2;Aa2 Aa2;Aa2;Aa2	AA;AA;AA AA;AA;AA	NR;NR;NR NR;NR;NR	Higher Education	
4/3/2019	Gainesville City-Florida	Utilities System Revenue Bonds 2019 Series A	153.82 Negotiated Bid	Lead Manager	Aa3;Aa3	AA-;AA-	A+;A+	General Purpose/ Public Imp	
4/3/2019	Gainesville City-Florida	Utilities System Revenue Bonds 2019 Series B	26.67 Negotiated Bid	Lead Manager	Aa3	AA-	A+	General Purpose/ Public Imp	
	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds 2019 Subseries C-4	150.00 Negotiated Bid	Sole Manager;Remarketing Agent;Credit	NR	NR	NR	General Purpose/ Public Imp	0.25
	Missouri Hlth & Ed Facs	Health Facilities Revenue Bonds Series	120.26 Negotiated Bid	Enhancer Co-Manager	A2;A2;A2	NR;NR;NR	A;A;A	General Acute Care Hospital	
	Authority NYC Housing Dev Corp	2019 A Multi-Family Housing Rev Bonds 2019	149.07 Negotiated Bid	Co-Manager		. AA+;AA+;AA+;AA+;AA+;	NR;NR;NR;NR;NR;NR	Multi Family Housing	6.41
		Series B-1-A&B				AA+;AA+;AA+;AA+	;NR;NR;NR;NR		
4/5/2019	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2019 Series B-2	27.81 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	1.19
	Auth	Hospital Revenue Bonds Series 2019 B & C	158.09 Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer;Remarketin g Agent;Credit Enhancer		NR;NR	NR;NR	General Acute Care Hospital	1.58
	Santa Clara Valley Water Dt	Water System Refunding Rev Bonds Series 2019 A	15.23 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	NR;NR;NR	AA+;AA+;AA+	Water & Sewer Facilities	
4/9/2019	Santa Clara Valley Water Dt	Water System Refunding Rev Bonds Series 2019 B	80.03 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	NR;NR;NR	AA+;AA+;AA+	Water & Sewer Facilities	
/10/2019	NYC Municipal Water Fin Auth	Water & Sewer Revenue Bonds 19 Ser FF Sub 1 & 2	500.00 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	AA+;AA+;AA+	Water & Sewer Facilities	4.96
/16/2019	Martin Co Health Facs	Hospital Revenue Bonds Series 2019 A	247.05 Negotiated Bid	Lead Manager	Aa2	AA	NR	General Acute Care Hospital	4.96
/16/2019	Authority Ohio Higher Ed Fac	Hospital Revenue Bonds Series 2019 B	250.32 Negotiated Bid	Lead Manager	Aa2;Aa2	AA;AA	NR;NR	General Acute Care Hospital	4.96
/18/2019	Commission Delaware Municipal	Electric Revenue Bonds Series 2019 A	12.06 Negotiated Bid	Sole Manager	NR;NR	BBB;BBB	NR;NR	Public Power	10.21
/18/2019	Electric Corp Delaware Municipal	Electric Revenue Bonds Series 2019 B	4.64 Negotiated Bid	Sole Manager	NR;NR;NR	BBB;BBB;BBB	NR;NR;NR	Public Power	10.21
	Electric Corp NYS Thruway Authority	Gen Rev Jr Indebtedness Oblig Series 2019	1,587.21 Competitive Bid		NR.	NR	NR	Bridges	0.06
		A		Lead Manager					0.06
Linn's	University Of Minnesota Regents	GO & Refunding Bonds Series 2019 A & B	155.46 Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1	AA;AA;AA	NR;NR;NR	Higher Education	
		General Obligation Bonds Series 2019 C	20.00 Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1	AA;AA;AA	NR;NR;NR	Higher Education	
/23/2019	University Of Minnesota Regents		500.00 Negotiated Bid	Sole	NR	NR	NR	General Purpose/ Public Imp	
4/23/2019	University Of Minnesota Regents District of Columbia	GO Commercial Paper BANs Series 2019	500.50 Nagalaled Bid	Manager;Remarketing Agent;Credit Enhancer					
4/23/2019 4/24/2019	Regents	General Obligation Bonds 2019 & Ref	239.47 Negotiated Bid	Agent;Credit	A1;A1	A+;A+	A;A	Higher Education	
4/23/2019 4/24/2019 4/24/2019 4/24/2019	Regents District of Columbia University of Connecticut	General Obligation Bonds 2019 & Ref Series A		Agent;Credit Enhancer		A+;A+ AAA;AAA;AAA;AAA	A;A NR;NR;NR;NR	Higher Education Single Family Housing	5.27

	Pennsylvania	GO Refunding Bonds Series 2019 A	188.66 Negotiated Bid	Lead Manager	A2	^	A-	General Purpose/ Public Imp
	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 205	18.00 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	NR;NR	Single Family Housing
		Single Family Housing Rev Bonds Series 206	6.61 Negotiated Bid	Co-Manager		AA+;AA+;AA+;AA+;AA+ AA+;AA+;AA+;AA+	; NR;NR;NR;NR;NR;NR ;NR;NR;NR;NR;NR	Single Family Housing
		Single Family Housing Rev Bonds Series	19.89 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	NR;NR	Single Family Housing
		207 Grant & RANs 2019 Series A	122.13 Negotiated Bid	Co-Manager	A2	NR	A+	Toll Roads, Highways &
5/7/2019	Colorado Hsg & Fin Auth	Single Family Mortgage Bonds 2019 Series	37.00 Negotiated Bid	Lead Manager	Aaa;Aaa	AAA;AAA	NR;NR	Streets Single Family Housing
	(CHFA)	F Single Family Mortgage Bonds 2019 Series	25.79 Negotiated Bid	Lead Manager	Aaa:Aaa:Aaa	AAA:AAA:AAA	NR;NR;NR	Single Family Housing
	(CHFA)	G-1			,,	, ,		
5///2019	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2019 Series G-2	26.81 Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer	Aaa	AAA	NR	Single Family Housing
	Ohio Higher Ed Fac Commission	Hospital Revenue Bonds Series 2019 D-1	59.67 Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA	NR	General Acute Care Hospital
5/8/2019	Massachusetts Wtr Resources Auth	General Revenue Bonds 2019 Series B	125.00 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	AA+;AA+	Water & Sewer Facilities
5/8/2019		General Revenue Ref Bonds 2019 Series C	19.19 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities
	Miami-Dade Co-Florida	Aviation Revenue Bonds Series 2019 A	282.18 Negotiated Bid	Co-Manager	NR;NR;NR	AA-;AA-;AA-	A;A;A	Airports
5/10/2019	Miami-Dade Co-Florida	Aviation Revenue Ref Bonds Series 2019 B	212.75 Negotiated Bid	Co-Manager	NR	AA-	A	Airports
	Allegheny Co Hospital Dev Auth	UMPC Revenue Bonds Series 2019 A	726.65 Negotiated Bid	Co-Manager	A1	A+	A+	General Acute Care Hospital
5/16/2019	Monterey Co (Santa Rita) USD	GO Refunding Bonds 2019 Series	11.03 Negotiated Bid	Sole Manager	NR	AA-	NR	Primary & Secondary Education
5/16/2019		Mortgage Purchase Bonds 2019 Series B	40.00 Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	NR;NR;NR;NR	Single Family Housing
5/23/2019	Pennsylvania Housing Fin	Single Family Mortgage Rev Bonds Series 2019-129	125.00 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing
5/23/2019		Grant Antic Rev Vehicle Bonds Series 2019	600.00 Negotiated Bid	Co-Manager	A2	AA	A+	Toll Roads, Highways &
6/4/2019	Metro Washington Airports	Airport System Rev & Ref Bonds Series	287.93 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	AA-;AA-;AA-	Streets Airports
	Auth	2019 A Airport System Rev & Ref Bonds Series	100.09 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Airports
	Auth	2019 B Certificates of Participation Series 2019 B	64.94 Competitive Bid	Sole Manager	Aa2	NR.	NR NR	General Purpose/ Public Imp
	of Trust	General Revenue Bonds Series 2019	25.41 Negotiated Bid	Sole Manager	Aa3	A+	NR	Higher Education
	University of Delaware Kansas City Industrial Dev	Tax-Exempt Bonds Series 2019 Airport Special Obligation Bonds Series	113.30 Negotiated Bid 824.77 Negotiated Bid	Sole Manager Co-Manager	Aa1 A2;A2;A2;A2;A2	AA+ A;A;A;A;A	NR A;A;A;A;A	Higher Education Airports
	Au	2019 B Airport Special Obligation Bonds Series	61.52 Negotiated Bid	Co-Manager	A2	A	A	Airports
	Au	2019 C	70.86 Negotiated Bid	Co-Manager		. AA;AA;AA;AA;AA;AA;AA;AA		•
	Fin Agcy	Housing Bonds 2019 Series A	•		a2;Aa2;Aa2		NR;NR;NR;NR;NR;NR ;NR;NR	
		Multi-Family Housing Rev Bonds 2019 Series E-1	359.64 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;A a2;Aa2	. AA+;AA+;AA+;AA+;AA+; AA+	; NR;NR;NR;NR;NR;NR ;NR	
5/13/2019	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2019 Series E-2	130.96 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing
3/13/2019		Multi-Family Housing Rev Bonds 2019 Series F	175.00 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing
6/13/2019	North Carolina	Limited Obligation Build NC Bonds Series	300.00 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Toll Roads, Highways &
	Richmond City-California	2019 A Wstwtr Revenue Bonds Series 2019 A	22.51 Negotiated Bid	Lead Manager	NR;NR;NR	AA-;AA-;AA-	NR;NR;NR	Streets Water & Sewer Facilities
		Wstwtr Revenue Bonds Series 2019 B Hospital Revenue Bonds Series 2019 A	66.08 Negotiated Bid 157.26 Negotiated Bid	Lead Manager Lead Manager	NR;NR Aa2	AA-;AA- AA	NR;NR AA	Water & Sewer Facilities Children's Hospital
	Corp	Hospital Revenue Bonds Series 2019 B	78.91 Negotiated Bid	Lead Manager	Aa2	AA	AA	Children's Hospital
	Corp							
		Trust & Bldg Fee Rev Ref Bonds Series 2019	65.01 Negotiated Bid	Lead Manager	Aa3	NR	NR	Higher Education
5/19/2019	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2019 Series I- 1	33.45 Negotiated Bid	Co-Manager	NR	NR	NR	Single Family Housing
5/19/2019	Colorado Hsg & Fin Auth (CHFA)	Singel Family Mortgage Bonds 2019 Series H	36.45 Negotiated Bid	Co-Manager	NR	NR	NR	Single Family Housing
5/21/2019	Connecticut	St Revolv Fund Gen Rev Bonds 2019 Series A	250.00 Negotiated Bid	Co-Manager	Aaa	AAA	AAA	Water & Sewer Facilities
6/21/2019	Connecticut	St Revolv Fund Ref Gen Rev Bonds 2019 Series B	29.85 Negotiated Bid	Co-Manager	Aaa	AAA	AAA	Water & Sewer Facilities
3/25/2019		Hospital Facilities Rev Bonds Series 2019	22.38 Private Bid	Sole Manager	NR	NR	NR	General Acute Care Hospital
6/25/2019	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds 2019 Series	29.86 Negotiated Bid	Sole Manager	Aa1	NR	NR	Single Family Housing
6/25/2019	Idaho Housing & Fin Assoc	A Single Family Mortgage Bonds 2019 Series	1.88 Negotiated Bid	Sole Manager	Aa1	NR	NR	Single Family Housing
		B-1 Single-Family Mortgage Bonds 2019 Series	11.04 Negotiated Bid	Sole	Aa1	NR	NR	Single Family Housing
0/23/2018		B-2	11.04 Negotiated Did	Manager;Remarketing Agent		N	NIX	Outgie I army Housing
6/26/2019	Los Angeles City-California	TRANs 2019 Series	1,660.44 Competitive Bid	Lead Manager	NR	NR	NR	General Purpose/ Public Imp
5/26/2019	NYC Municipal Water Fin	Wtr & Swr Sys 2nd Gen Resol Bonds Series	459.60 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities
7/9/2019	San Diego Co (South Bay)	AA General Obligation BANs 2019 Series	17.80 Negotiated Bid	Sole Manager	NR	NR	NR	Primary & Secondary
7/11/2019		Student Housing Revenue Bonds Series	175.07 Negotiated Bid	Co-Manager	Baa3;Baa3;Baa3;Baa3	NR;NR;NR;NR	NR;NR;NR;NR	Education Higher Education
7/11/2019	Auth	2019 Systemwide Revenue Bonds Series 2019 A	449.43 Negotiated Bid	Lead Manager	Aa2;Aa2;Aa2;Aa2	AA-;AA-;AA-	NR;NR;NR;NR	Higher Education
	Trustees	Systemwide Revenue Bonds Series 2019 B	81.34 Negotiated Bid	Lead Manager	Aa2;Aa2;Aa2	AA-;AA-;AA-	NR;NR;NR	Higher Education
	Trustees							
	California State Univ Trustees	Systemwide Revenue Bonds Series 2020 A	65.24 Negotiated Bid	Lead Manager	Aa2	AA-	NR	Higher Education
	(MSHDA)	Rental Housing Revenue Bonds 2019 Series A-1	171.75 Negotiated Bid	Co-Manager	NR	AA	NR	Multi Family Housing
7/11/2019	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds 2019 Series A-1	30.74 Negotiated Bid	Co-Manager	NR	AA	NR	Multi Family Housing
7/11/2019		Rental Housing Revenue Bonds 2019 Series A-2	1.50 Negotiated Bid	Co-Manager	NR	AA	NR	Multi Family Housing
7/11/2019	Colorado Hsg & Fin Auth	Homeownership Bonds Series 2019 AA	59.20 Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing
7/11/2019		Water & Sewer System Rev Bonds Ser BB	300.00 Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	AA+;AA+;AA+	Water & Sewer Facilities
7/11/2019		Subser BB-1 Water & Sewer System Rev Bonds Ser BB	75.00 Negotiated Bid	Lead Manager	Aa1;Aa1	AA+;AA+	AA+;AA+	Water & Sewer Facilities
7/11/2019	Auth NYC Municipal Water Fin	Subser BB-2 Water & Sewer System Rev Bonds Ser BB	75.00 Negotiated Bid	Lead Manager	Aa1	AA+	AA+	Water & Sewer Facilities
	Auth	Subser BB-2 Hospital Revenue Bonds Series 2019 A	44.33 Negotiated Bid	Sole Manager	NR;NR	A-;A-	NR;NR	General Acute Care Hospital
//12/2019		Hospital Revenue Bonds Series 2019 B	25.36 Negotiated Bid	Sole	NR	A-	NR NR	General Acute Care Hospital
		Revenue Bonds Series 2019 B	99.70 Private Bid	Manager;Remarketing Agent Sole Manager	NR	NR	NR	General Acute Care Hospital
7/12/2019	Missouri Hlth & Ed Face	General Obligation Bonds Series 2019						
7/12/2019 7/15/2019	Authority	Conteral Collidation Bonds Series 2019	27.61 Negotiated Bid	Co-Manager Lead	Ba1 NR	AA-	NR AA	General Purpose/ Public Imp Public Power
7/12/2019 7/15/2019 7/16/2019	Authority Government of Guam		100 00 Negotisted Rid	Manager;Remarketing				Public Power
7/12/2019 7/15/2019 7/16/2019 7/16/2019	Authority Government of Guam Sacramento MUD (SMUD)	Sub Electric Revenue Bonds 2019 Series A	100.00 Negotiated Bid 100.00 Negotiated Bid	Agent Lead	NR	AA-	AA	
7/12/2019 7/15/2019 7/16/2019 7/16/2019	Authority Government of Guam Sacramento MUD (SMUD)		100.00 Negotiated Bid 100.00 Negotiated Bid	Agent		AA-	AA	Tubile Tower
7/12/2019 7/15/2019 7/16/2019 7/16/2019 7/16/2019	Authority Government of Guam Sacramento MUD (SMUD) Sacramento MUD (SMUD) Maine State Housing	Sub Electric Revenue Bonds 2019 Series A		Agent Lead Manager;Remarketing		AA+;AA+;AA+;AA+	NR;NR;NR;NR	Single Family Housing
7/12/2019 7/15/2019 7/16/2019 7/16/2019 7/16/2019	Authority Government of Guam Sacramento MUD (SMUD) Sacramento MUD (SMUD) Maine State Housing Authority North Texas Tollway Auth	Sub Electric Revenue Bonds 2019 Series A Sub Electric Revenue Bonds 2019 Series B Mortgage Purchase Bonds 2019 Series C System Revenue Refunding Bonds Series	100.00 Negotiated Bid	Agent Lead Manager;Remarketing Agent				Single Family Housing Toll Roads, Highways &
7/12/2019 7/15/2019 7/16/2019 7/16/2019 7/16/2019 7/16/2019	Authority Government of Guarn Sacramento MUD (SMUD) Sacramento MUD (SMUD) Maine State Housing Authority North Texas Tollway Auth (NTTA)	Sub Electric Revenue Bonds 2019 Series A Sub Electric Revenue Bonds 2019 Series B Mortgage Purchase Bonds 2019 Series C	100.00 Negotiated Bid 39.11 Negotiated Bid	Agent Lead Manager;Remarketing Agent Co-Manager	Aa1;Aa1;Aa1;Aa1	AA+;AA+;AA+;AA+	NR;NR;NR;NR	Single Family Housing

	Auth (CHFA)	Housing Mortgage Fin Prog Bonds 19 Ser D Subser D-2	5.59 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
7/17/2019	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 19 Ser D Subser D-4	15.00 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
7/17/2019	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 19 Ser D Subser D-1	65.40 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA	NR;NR;NR;NR	Single Family Housing	
		Intermediate Lien Revenue Bonds Series 2019	457.39 Negotiated Bid	Co-Manager	A1;A1;A1	A+;A+;A+	AA-;AA-;AA-	Airports	
7/23/2019	Kern Community College District	GO Refunding Bonds 2019 Series	61.32 Negotiated Bid	Sole Manager	Aa2	AA-	NR	Higher Education	
7/23/2019	Colorado Hsg & Fin Auth (CHFA)	Multi-Family/Project Bonds 2019 Ser A-1 & A-3	20.28 Negotiated Bid	Lead Manager	Aaa;Aaa	AAA;AAA	NR;NR	Multi Family Housing	
7/23/2019	Colorado Hsg & Fin Auth (CHFA)	Multi-Family/Project Bonds 2019 Ser A-2	7.85 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
		General Obligation Bonds Series A Subser	800.00 Negotiated Bid	Co-Manager	Aa1	AA	AA	General Purpose/ Public Imp	
	Texas PAB Surface Trans Corp	Senior Lien Revenue Bonds Series 2019	653.87 Negotiated Bid	Lead Manager	Baa3	NR	BBB-	Toll Roads, Highways & Streets	
8/6/2019		Future Tax Secured Sub Bonds Subseries A-	374.15 Competitive Bid	Sole Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
8/7/2019	Chattanooga Health Education & Housing	Revenue Bonds Series 2019 A-1&A-2	276.02 Negotiated Bid	Co-Manager	Baa1;Baa1;Baa1;Baa1; Baa1;Baa1	BBB+;BBB+;BBB+;BBB+;BB B+;BBB+	BBB+;BBB+;BBB+;BB B+;BBB+;BBB+	General Acute Care Hospital	
	Board Colorado Health Facilities	Revenue Bonds Series 2019 B-1	124.58 Negotiated Bid	Co-Manager	Baa1	BBB+	BBB+	General Acute Care Hospital	
	Auth	Revenue Bonds Series 2019 A-1&A-2	1,760.96 Negotiated Bid	Co-Manager	Baa1;Baa1;Baa1;Baa1;	BBB+:BBB+:BBB+:BB	BBB+:BBB+:BBB+:BB	General Acute Care Hospital	
	Auth	Revenue Bonds Series 2019 B-2	157.68 Negotiated Bid	Co-Manager	Baa1;Baa1 Baa1	B+;BBB+ BBB+	B+;BBB+;BBB+ BBB+	General Acute Care Hospital	
	Auth Kentucky Economic Dev	Revenue Bonds Series 2019 A-1&A-2	176.20 Negotiated Bid	Co-Manager	Baa1;Baa1;Baa1;Baa1;	BBB+;BBB+;BBB+;BB	RRR+:RRR+:RRR+:RR	General Acute Care Hospital	
	Fin Auth	Revenue Bonds Series 2019 A-1&A-2	315.90 Negotiated Bid	Co-Manager	Baa1:Baa1:Baa1:Baa1:	B+ BBB+;BBB+;BBB+;BBB+;BB	B+;BBB+	General Acute Care Hospital	
	Facs Au Washington Health Care	Revenue Bonds Series 2019 B-1	102.56 Negotiated Bid	Co-Manager	Baa1 Baa1	B+ BBB+	B+;BBB+ BBB+	General Acute Care Hospital	
	Facs Au	Revenue Bonds Series 2019 B-2		Co-Manager Co-Manager	Baa1	BBB+	BBB+	General Acute Care Hospital	
	Facs Au		100.48 Negotiated Bid						
	Facs Au	Revenue Bonds Series 2019 B-3	135.28 Negotiated Bid	Co-Manager	Baa1	BBB+	BBB+	General Acute Care Hospital	
	Cleveland-Cuyahoga Co Port Auth	Development Ref Rev Bonds Series 2019	18.22 Negotiated Bid	Lead Manager	A2	A-	NR	Seaports/ Marine Terminals	
8/13/2019	Colorado Hsg & Fin Auth (CHFA)	Homeownership Class I Bonds Ser 19 BB-1 & BB-2	74.86 Negotiated Bid	Co-Manager	Aaa;Aaa	NR;NR	NR;NR	Single Family Housing	
8/14/2019	San Francisco City & Co Airport Comm	Revenue Bonds 2nd Series 2019 G	41.77 Negotiated Bid	Lead Manager	A1	A+	A+	Airports	
8/14/2019	San Francisco City & Co Airport Comm	Revenue Bonds 2nd Series 2019 F	106.93 Negotiated Bid	Lead Manager	A1	A+	A+	Airports	
8/14/2019		Revenue & Refunding Bonds 2nd Series 2019 E&H	1,040.48 Negotiated Bid	Lead Manager	A1;A1;A1;A1	A+;A+;A+;A+	A+;A+;A+;A+	Airports	
	Montgomery Co-Ohio	Hospital Facilities Rev Ref Bonds Series 2019 A	288.21 Negotiated Bid	Lead Manager	Baa1;Baa1;Baa1	NR;NR;NR	A;A;A	General Acute Care Hospital	
8/15/2019	Georgia Priv College & Univ Auth	Revenue Bonds Series 2019 A	218.12 Negotiated Bid	Co-Manager	Aa2	AA	NR	Higher Education	
8/15/2019	Georgia Priv College &	Revenue Bonds Series 2019 B	39.73 Negotiated Bid	Co-Manager	Aa2	AA	NR	Higher Education	
8/16/2019		Single Family Mortgage Rev Bonds Series	122.92 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2	AA+;AA+;AA+;AA+	NR;NR;NR;NR	Single Family Housing	
8/16/2019	Agcy (PHFA) Pennsylvania Housing Fin	2019-130 A Single Family Mortgage Rev Bonds Series	52.01 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	
8/21/2019	Agcy (PHFA) Texas	2019-130 B TRANs Series 2019	8,000.00 Competitive Bid	Lead Manager	NR	NR	NR	General Purpose/ Public Imp	
8/22/2019	Houston City-Texas	Public Improvement Ref Bonds Series 2019	214.63 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA;AA;AA	NR;NR;NR	General Purpose/ Public Imp	
	Houston City-Texas	B Public Improvement Ref Bonds Series 2019	255.39 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA:AA:AA	NR;NR;NR	General Purpose/ Public Imp	
	Houston City-Texas	A Public Improvement Ref Bonds Series 2019	23.31 Negotiated Bid	Co-Manager	Aa3	AA	NR	General Purpose/ Public Imp	
		C Catawba Electric Rev Ref Bonds Series	102.04 Negotiated Bid	Co-Manager Co-Manager	NR:NR	A:A	A;A	Public Power	
	Agcy #1	2019 A & B			<u>'</u>	<u>'</u>			
	Miami-Dade Co-Florida	Aviation Revenue Refunding Bonds Series 2019 C & D	27.09 Negotiated Bid	Lead Manager	NR;NR	A;A	A;A	Airports	
	Miami-Dade Co-Florida	Aviation Revenue Refunding Bonds Series 2019 E	360.50 Negotiated Bid	Lead Manager	NR	A	A	Airports	
		GO Refunding Bonds Series 2019 C	39.27 Competitive Bid	Sole Manager	NR	AAA	AAA	General Purpose/ Public Imp	
8/27/2019	Miami-Dade Co SD	TANs Series 2019	400.00 Competitive Bid	Lead Manager	NR;NR;NR	NR;NR;NR	NR;NR;NR	Primary & Secondary Education	
	Massachusetts Housing Fin Agcy	Single Family Mortgage Rev Bonds Series 209	14.00 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	NR;NR	Single Family Housing	
8/27/2019	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 210	9.15 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	NR;NR;NR	Single Family Housing	
8/27/2019	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 211	20.29 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	NR;NR	Single Family Housing	
8/28/2019	Minneapolis-St Paul Metro	Sub Airport Rev & Ref Bonds Series 2019 A & C	127.65 Negotiated Bid	Co-Manager	NR;NR	A+;A+	A+;A+	Airports	
8/28/2019	Minneapolis-St Paul Metro	Sub Airport Rev & Ref Bonds Series 2019 B	164.32 Negotiated Bid	Co-Manager	NR	A+	A+	Airports	
8/28/2019	Airports Comm Montgomery Co-Ohio	Hosp Facs Rev Ref Bonds Series 2019 C	42.50 Negotiated Bid	Sole	Aa2	NR	AA	General Acute Care Hospital	
				Manager;Remarketing Agent					
9/4/2019	(CHFA)	Multi-Family Project Bonds 2019 Series C	40.00 Negotiated Bid	Sole Manager;Remarketin Agent	Aaa g	AAA	NR	Multi Family Housing	
9/5/2019	California	Various Purpose GO & Ref Bonds	2,323.59 Negotiated Bid	Co-Manager	Aa3;Aa3	AA-;AA-	AA;AA	General Purpose/ Public Imp	
		General Revenue Pledge Bonds Series	350.00 Negotiated Bid	Lead Manager	Aaa	AAA	AAA	Higher Education	
9/5/2019		2019 A Various Purpose GO Bonds	81.74 Negotiated Bid	Co-Manager	Aa3	AA-	AA	Primary & Secondary	
		General Obligation Bonds 2019 Series P	330.00 Negotiated Bid	Co-Manager	Aa3	A+	NR	Education Higher Education	
		GO Refunding Bonds 2020 Series Q Improvement Revenue Bonds 2019 Series A	17.82 Negotiated Bid 85.84 Negotiated Bid	Co-Manager Co-Manager	Aa3;Aa3;Aa3	A+ NR;NR;NR	NR AA-;AA-;AA-	Higher Education Higher Education	
	of Gov	Refunding Revenue Bonds 2019 Series B	39.13 Negotiated Bid	Co-Manager	Aa3	NR	AA-	Higher Education	
9/11/2019		residing revende Bondo 2010 Conco B	oo. 10 140gottated Did	Oo manager	Baa2	NR	A-	Public Power	
	of Gov	Payenua Palundina Bonde Soriae 2010	20 64 Negotiated Bid	Solo Managor	Daaz	INIX		Public Power	
9/11/2019	Pend Oreille Pub Utility Dt #1	Revenue Refunding Bonds Series 2019	30.64 Negotiated Bid	Sole Manager	Don't	ND			
9/11/2019 9/11/2019	Pend Oreille Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1	Electric Revenue Ref Bonds Series 2019	8.68 Negotiated Bid	Sole Manager	Baa2	NR	A-		
9/11/2019 9/11/2019 9/11/2019	Pend Oreille Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1 Alaska Housing Finance Corp	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A	8.68 Negotiated Bid	Sole Manager Co-Manager	Aa1;Aa1;Aa1;Aa1;Aa1;A	A AA+;AA+;AA+;AA+;AA+	NR;NR;NR;NR;NR	Single Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019	Pend Oreille Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A General Mortgage Revenue Bonds 2019 Series B	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid	Sole Manager Co-Manager Co-Manager	Aa1;Aa1;Aa1;Aa1;Aa1;A a1 Aa1;Aa1	A AA+;AA+;AA+;AA+;AA+ AA+;AA+	NR;NR;NR;NR;NR NR;NR	Single Family Housing Single Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019	Pend Oreille Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp NYS Housing Fin Mortgage Agcy	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A General Mortgage Revenue Bonds 2019 Series B Homeowner Mtg Revenue Bonds Series 220	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1;Aa1;Aa1;Aa1;A a1 Aa1;Aa1 Aa1;Aa1;Aa1;Aa1	A AA+;AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR;NR;NR;NR	NR;NR;NR;NR;NR NR;NR NR;NR;NR;NR	Single Family Housing Single Family Housing Single Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019	Pend Oreille Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp NYS Housing Fin Mortgage Agry NYS Housing Fin- Mortgage Agry	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A General Mortgage Revenue Bonds 2019 Series B Homeowner Mtg Revenue Bonds Series 220 Homeowner Mtg Revenue Bonds Series 221	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid 66.74 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1 Aa1;Aa1 Aa1;Aa1;Aa1;Aa1	A AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR;NR;NR;NR NR;NR	NR;NR;NR;NR;NR;NR NR;NR NR;NR;NR;NR NR;NR	Single Family Housing Single Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019	Pend Oreille Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp NYS Housing Fin- Mortgage Agcy NYS Housing Fin-	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A General Mortgage Revenue Bonds 2019 Series B Homeowner Mtg Revenue Bonds Series 220	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1;Aa1;Aa1;Aa1;A a1 Aa1;Aa1 Aa1;Aa1;Aa1;Aa1	A AA+;AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR;NR;NR;NR	NR;NR;NR;NR;NR NR;NR NR;NR;NR;NR	Single Family Housing Single Family Housing Single Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019	Pend Oreille Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp NYS Housing Fin- Mortgage Agcy	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A General Mortgage Revenue Bonds 2019 Series B Homeowner Mtg Revenue Bonds Series 220 Homeowner Mtg Revenue Bonds Series 221	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid 66.74 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1 Aa1;Aa1 Aa1;Aa1;Aa1;Aa1	A AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR;NR;NR;NR NR;NR	NR;NR;NR;NR;NR;NR NR;NR NR;NR;NR;NR NR;NR	Single Family Housing Single Family Housing Single Family Housing Single Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/12/2019	Pend Oreile Pub Utility Dt #1 Pend Oreile Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp NYS Housing Fin- Mortgape Agry NYS Housing Fin-	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A General Mortgage Revenue Bonds 2019 Series B Homeowner Mig Revenue Bonds Series 220 Homeowner Mig Revenue Bonds Series 221 Homeowner Mig Revenue Bonds Series 222 Multi-Familly Housing Rev Bonds Series 19 G-1- A & G-1-B Multi-Family Housing Rev Bonds Series	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid 66.74 Negotiated Bid 20.00 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1;Aa1;Aa1;Aa1;A a1 Aa1;Aa1 Aa1;Aa1;Aa1;Aa1 Aa1;Aa1	AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR;NR;NR NR;NR	NR;NR;NR;NR;NR;NR NR;NR NR;NR;NR;NR NR;NR	Single Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/12/2019 9/12/2019 9/12/2019	Pend Oreile Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp WYS Housing Fin- Mortgage Agoy WYC Housing Dev Corp NYC Housing Dev Corp Long Island Power	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A General Mortgage Revenue Bonds 2019 Series B General Mortgage Revenue Bonds 2019 Series B Homeowner Mtg Revenue Bonds Series 220 Homeowner Mtg Revenue Bonds Series 221 Homeowner Mtg Revenue Bonds Series 221 Multi-Familly Housing Rev Bonds Series 222 Multi-Familly Housing Rev Bonds Series 2019 G-2 Electric System Gen Rev Bonds Series 2019 G-2 Electric System Gen Rev Bonds Series	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid 66.74 Negotiated Bid 20.00 Negotiated Bid 205.89 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa1;Aa1;Aa1;Aa1;Aa1; a1 Aa1;Aa1 Aa1;Aa1;Aa1;Aa1 Aa1;Aa1 Aa1;Aa2;Aa2	A AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR:NR:NR NR:NR NR NR AA+;AA+	NR;NR;NR;NR;NR NR;NR NR;NR;NR NR;NR NR;NR NR;NR	Single Family Housing Single Family Housing Single Family Housing Single Family Housing Multi Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019	Pend Oreille Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1 Allaska Housing Finance Corp Allaska Housing Finance Corp NYS Housing Finance Cry NYS Housing Finance NYS Housing Finance NYS Housing Finance NYS Housing Fin	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A General Mortgage Revenue Bonds 2019 Series B Homeowner Mtg Revenue Bonds Series 220 Homeowner Mtg Revenue Bonds Series 221 Homeowner Mtg Revenue Bonds Series 222 Multi-Family Housing Rev Bonds Series 222 Multi-Family Housing Rev Bonds Series 222 Multi-Family Housing Rev Bonds Series 2019 G-2 Electric System Gen Rev Bonds Series 2019 G-2 Electric System Gen Rev Bonds Series 2019 A	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid 66.74 Negotiated Bid 20.00 Negotiated Bid 205.89 Negotiated Bid 8.46 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager	Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;	A AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR:NR;NR;NR NR:NR NR AA+;AA+ AA+	NR;NR;NR;NR;NR NR;NR NR;NR;NR NR;NR NR;NR NR NR NR	Single Family Housing Multi Family Housing Multi Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019	Pend Oreille Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1 Allaska Housing Finance Corp Allaska Housing Finance Corp NYS Housing Pen NYS Housing Dev Corp NYC Housing Dev Corp Long Island Power Authority Long Island Power Authority Utilah Housing Corporation	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A. General Mortgage Revenue Bonds 2019 Series B. General Mortgage Revenue Bonds 2019 Series B. Homeowner Mtg Revenue Bonds Series 220 Homeowner Mtg Revenue Bonds Series 221 Homeowner Mtg Revenue Bonds Series 222 Multi-Family Housing Rev Bonds Series 222 Multi-Family Housing Rev Bonds Series 2019 G-2 Electric System Gen Rev Bonds Series 2019 G-2 Electric System Gen Rev Bonds Series 2019 A	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid 66.74 Negotiated Bid 20.00 Negotiated Bid 205.89 Negotiated Bid 8.46 Negotiated Bid 218.18 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager	Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;	A AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR:NR:NR:NR NR:NR NR AA+;AA+ AA+	NR:NR:NR:NR:NR;NR NR:NR NR:NR:NR:NR NR:NR NR NR NR NR:NR NR NR	Single Family Housing Multi Family Housing Multi Family Housing Public Power	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019	Pend Oreile Pub Utility Dt #1 Pend Oreile Pub Utility Dt #1 Pand Oreile Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp NYS Housing Finance Corp NYS Housing Finandrogae Agry NYS Housing Finandrogae Agry NYS Housing Finandrogae Agry NYG Housing Dev Corp NYC Housing Dev Corp NYC Housing Dev Corp Long Island Power Authority Long Island Power Authority Utah Housing Corporation (UHC)	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A. General Mortgage Revenue Bonds 2019 Series B. General Mortgage Revenue Bonds 2019 Series B. Homeowner Mtg Revenue Bonds Series 220 Homeowner Mtg Revenue Bonds Series 221 Homeowner Mtg Revenue Bonds Series 222 Multi-Family Housing Rev Bonds Series 222 Multi-Samily Housing Rev Bonds Series 2019 G-1: A & G-1-B Multi-Family Housing Rev Bonds Series 2019 G-2 Electric System Gen Rev Bonds Series 2019 A Electric System Gen Rev Bonds Series 2019 B Electric System Gen Rev Bonds Series 2019 B	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid 66.74 Negotiated Bid 20.00 Negotiated Bid 205.89 Negotiated Bid 8.46 Negotiated Bid 218.18 Negotiated Bid 228.25 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;	A AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR:NR:NR NR NR AA+;AA+ AA+ AA+ A A	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	Single Family Housing Multi Family Housing Multi Family Housing Public Power Public Power	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019	Pend Oreile Pub Utility Dt #1 Pend Oreile Pub Utility Dt #1 Pand Oreile Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp NYS Housing Finance Corp NYS Housing Finandrogae Agry NYS Housing Finandrogae Agry NYS Housing Finandrogae Agry NYG Housing Dev Corp NYC Housing Dev Corp NYC Housing Dev Corp Long Island Power Authority Long Island Power Authority Utah Housing Corporation (UHC)	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A. General Mortgage Revenue Bonds 2019 Series B. General Mortgage Revenue Bonds 2019 Series B. Homeowner Mtg Revenue Bonds Series 220 Homeowner Mtg Revenue Bonds Series 221 Homeowner Mtg Revenue Bonds Series 222 Multi-Family Housing Rev Bonds Series 222 Multi-Family Housing Rev Bonds Series 2019 G-2 Electric System Gen Rev Bonds Series 2019 A. Electric System Gen Rev Bonds Series 2019 B. Electric System Gen Rev Bonds Series 2019 B. Single Family Mortgage Bonds 2019 Series A.	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid 66.74 Negotiated Bid 20.00 Negotiated Bid 205.89 Negotiated Bid 8.46 Negotiated Bid 218.18 Negotiated Bid 284.25 Negotiated Bid 113.05 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;	AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR:NR:NR:NR NR:NR NR AA+;AA+ AA+ AA+ A NR:NR	NRJNR,NR,NR,NR NR:JNR NR:JNR,NNR NR;JNR NR NR NR NR A A A NR:JNR	Single Family Housing Multi Family Housing Multi Family Housing Public Power Public Power Single Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019	Pend Oreile Pub Utility Dt #1 Pend Oreile Pub Utility Dt #1 Pand Oreile Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp NYS Housing Finance Corp NYS Housing Finandrogae Agry NYS Housing Finandrogae Agry NYS Housing Finandrogae Agry NYS Housing Finandrogae Agry NYC Housing Dev Corp NYC Housing Dev Corp Long Island Power Authority Long Island Power Authority Util Housing Corporation (UHC) Util Housing Corporation (UHC) University of Delaware Wisconsin Hith & Ed Fac	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A. General Mortgage Revenue Bonds 2019 Series B. Homeowner Mtg Revenue Bonds Series 220 Homeowner Mtg Revenue Bonds Series 221 Homeowner Mtg Revenue Bonds Series 221 Multi-Family Housing Rev Bonds Series 222 Multi-Family Housing Rev Bonds Series 222 Multi-Family Housing Rev Bonds Series 2019 G-2 Electric System Gen Rev Bonds Series 2019 A Electric System Gen Rev Bonds Series 2019 B Single Family Mortgage Bonds 2019 Series A Single Family Mortgage Bonds 2019 Series A Single Family Mortgage Bonds 2019 Series A	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid 66.74 Negotiated Bid 20.00 Negotiated Bid 205.89 Negotiated Bid 8.46 Negotiated Bid 218.18 Negotiated Bid 284.25 Negotiated Bid 113.05 Negotiated Bid 49.46 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;	AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR:NR:NR:NR NR:NR NR AA+;AA+ AA+ AA+ AA+ NR:NR	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	Single Family Housing Multi Family Housing Multi Family Housing Public Power Public Power Single Family Housing Single Family Housing	
9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/11/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019 9/12/2019	Pend Oreille Pub Utility Dt #1 Pend Oreille Pub Utility Dt #1 Pand Oreille Pub Utility Dt #1 Alaska Housing Finance Corp Alaska Housing Finance Corp NYS Housing Finance NYS Housing Per Corp NYC Housing Dev Corp NYC Housing Dev Corp Long Island Power Authority Long Island Power Authority Utah Housing Corporation (UHC)	Electric Revenue Ref Bonds Series 2019 General Mortgage Revenue Bonds 2019 Series A General Mortgage Revenue Bonds 2019 Series B Homeowner Mtg Revenue Bonds Series 220 Homeowner Mtg Revenue Bonds Series 221 Homeowner Mtg Revenue Bonds Series 221 Homeowner Mtg Revenue Bonds Series 222 Multi-Family Housing Rev Bonds Series 222 Multi-Family Housing Rev Bonds Series 2019 G-1: A & G-1-B Multi-Family Housing Rev Bonds Series 2019 G-2 Electric System Gen Rev Bonds Series 2019 A Single Family Mortgage Bonds 2019 Series A General Obligation Bonds Series 2019 A	8.68 Negotiated Bid 136.70 Negotiated Bid 24.99 Negotiated Bid 125.44 Negotiated Bid 66.74 Negotiated Bid 20.00 Negotiated Bid 205.89 Negotiated Bid 8.46 Negotiated Bid 218.18 Negotiated Bid 284.25 Negotiated Bid 113.05 Negotiated Bid 49.46 Negotiated Bid 49.94 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Sole Manager	Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;Aa1;	A AA+;AA+;AA+;AA+;AA+ AA+;AA+ NR:NR:NR NR NR NR AA+;AA+ AA+ AA+ AA+ A NR:NR NR	NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.NR.N	Single Family Housing Multi Family Housing Multi Family Housing Public Power Public Power Single Family Housing Single Family Housing	

	9/20/2019	Georgia Muni Electric Au	Revenue Bonds Series 2019 B	266.98 Negotiated Bid	Lead Manager	Baa2	BBB+	BBB+	Public Power	
	9/20/2019	(MEAG) Georgia Muni Electric Au	Revenue Bonds Series 2019 A	445.64 Negotiated Bid	Lead Manager	A2;A2	A;A	BBB+;BBB+	Public Power	
		(MEAG)	Housing Finance Prog Bonds 2019 Subser	29.39 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
		Auth (CHFA)	E-3 Housing Finance Prog Bonds 19 Subser E-1	98.69 Negotiated Bid	Co-Manager				Single Family Housing	
		Auth (CHFA)	& E-2 General Obligation Bonds Series A-1	55.00 Negotiated Bid	Co-Manager	aa;Aaa;Aaa Aa1	A;AAA;AAA AA+	;NR;NR NR	Primary & Secondary	
		SD	General Obligation & BANs 2019 & Series A-	89.00 Negotiated Bid	Co-Manager	Aa1:NR	AA+:NR	NR;NR	Education Primary & Secondary	
		SD Maine State Housing	2 Mortgage Revenue Bonds 2019 Series E	34.45 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Education Multi Family Housing	
		Authority				A2	NR .	A+		
		Auth	Revenue Bonds Series 2019 A Revenue Bonds Series 2019 B	44.69 Negotiated Bid 30.32 Negotiated Bid	Sole Manager Sole Manager	A2	NR	A+	Higher Education Higher Education	
		Auth Lower Colorado River	Transmission Contract Ref Bonds Series	138.13 Negotiated Bid	Lead Manager	NR NR	A	A+	Public Power	2.32
		Authority (LCRA) Lower Colorado River	2019 A Transmission Contract Ref Bonds Series		Lead Manager	NR	A	A+	Public Power	0.59
		Authority (LCRA)	2019 A	35.22 Negotiated Bid 199.51 Negotiated Bid						
		Massachusetts Dept of Transport Massachusetts Dept of	Metropolitan Hway Sys Ref Bond Sub 2019 Series C	464 65 Negotiated Bid	Co-Manager Co-Manager	Aa2 Aa2	AA AA	AA+	Toll Roads, Highways & Streets	2.75
		Transport	Metropolitan Hway Sys Ref Bond Sr 2019 Series A						Toll Roads, Highways & Streets	2.15
		Rhode Island Hsg & Mtg Fin Corp	Multi-Family Development Bonds 2019 Series 1-A	25.90 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
		Rhode Island Hsg & Mtg Fin Corp	Multi-Family Development Bonds 2019 Series 1-B	36.00 Negotiated Bid	Co-Manager	a2;Aa2	NR;NR;NR;NR;NR;NR	NR;NR;NR;NR;NR;NR ;NR		
		Rhode Island Hsg & Mtg Fin Corp	Multi-Family Development Bonds 2019 Series 2-T	11.70 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	NR;NR;NR	NR;NR;NR;NR	Multi Family Housing	
			Single Family Mortgage Bonds 2019 Series C	30.49 Negotiated Bid	Sole Manager	Aa1	NR	NR	Single Family Housing	
		New York City-New York	General Obligation Bonds Series B Sub B-1	510.00 Negotiated Bid	Co-Manager	Aa1	AA	AA	General Purpose/ Public Imp	2.78
		New York City-New York	General Obligation Bonds Series B Sub B-1	340.00 Negotiated Bid	Co-Manager	Aa1	AA	AA	General Purpose/ Public Imp	1.85
		Auth (CHFA)	Hsg Mortgage Finance Prog Bonds 2019 Subseries F-1	68.74 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA	NR;NR;NR;NR	Single Family Housing	1.47
		Auth (CHFA)	Hsg Mortgage Finance Prog Bonds 2019 Subseries F-3	15.00 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	0.32
		Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2019 Series B	261.83 Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	
		Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2019 Series C	63.18 Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	
		Massachusetts Wtr Resources Auth	General Revenue Bonds 2019 Series E	50.00 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	AA+;AA+;AA+	Water & Sewer Facilities	
		Massachusetts Wtr Resources Auth	General Revenue Bonds 2019 Series E	547.75 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	AA+;AA+	Water & Sewer Facilities	
		Massachusetts Wtr Resources Auth	General Revenue Ref Bonds 2019 Series G	22.83 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
		Univ of Nebraska Facs Corp	University Sys Facs Bonds Series 2019 A	525.88 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA;AA;AA	NR;NR;NR	Higher Education	2.23
		Univ of Nebraska Facs Corp	University System Facs Bonds Series 2019 B	37.42 Negotiated Bid	Co-Manager	Aa1	AA	NR	Higher Education	2.23
		Rutgers State University NYS Housing Fin-	GO Refunding Bonds 2019 Series R Affordable Housing Rev Bonds 2019 Series	614.49 Negotiated Bid 34.08 Negotiated Bid	Co-Manager Co-Manager	Aa3 Aa2;Aa2	A+ NR;NR	NR NR;NR	Higher Education Multi Family Housing	3.04
		Mortgage Agcy NYS Housing Fin-	N & O Affordable Housing Rev Bonds 2019 Series	49.20 Negotiated Bid	Co-Manager	Aa2;Aa2	NR:NR	NR:NR	Multi Family Housing	
		Mortgage Agcy NYS Housing Fin-	N & O Affordable Housing Rev Bonds 2019 Series	17.64 Negotiated Bid	Co-Manager	Aa2;Aa2	NR;NR	NR;NR	Multi Family Housing	
		Mortgage Agcy Philadelphia SD	N & O GO & Refunding Bonds Ser A C & D of	456.24 Negotiated Bid	Co-Manager	Baa3;Baa3;Baa3;Baa3;	NR;NR;NR;NR	BB+;BB+;BB+;BB+;BB		3.92
		Philadelphia SD	2019 General Obligation Bonds Series B of 2019	24.84 Negotiated Bid	Co-Manager	Baa3 Baa3	NR	+ BB+	Education Primary & Secondary	3.75
		Philadelphia SD	GO Refunding Bonds Series of 2020	123.81 Negotiated Bid	Co-Manager	Baa3	NR	BB+	Education Primary & Secondary	1.90
		Colorado Hsg & Fin Auth	Single Family Mortgage Rev Bonds 2019	27.51 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Education Single Family Housing	1.50
		(CHFA) Colorado Hsg & Fin Auth	Series K Single Family Mortgage Rev Bonds 2019	55.29 Negotiated Bid	Lead Manager	Aa2;Aaa	AA;AAA	NR;NR	Single Family Housing	
		(CHFA) Colorado Hsg & Fin Auth	Series L-1&3 Single Family Mortgage Rev Bonds 2019	3.70 Negotiated Bid	Lead Manager	Aaa	AAA	NR.	Single Family Housing	
		(CHFA) Colorado Hsg & Fin Auth	Series J Single Family Mortgage Rev Bonds 2019	39.17 Negotiated Bid	Sole	Aaa	AAA	NR	Single Family Housing	
	10/17/2019	(CHFA)	Series L2	39.17 Negotiated bid	Manager;Remarketing Agent		AAA	NK.	Single Family Housing	
1		Clark Co Public Utility Dt #1	Water System Revenue Bonds Series 2019	11.23 Negotiated Bid	Sole Manager	Aa2	AA-	NR	Water & Sewer Facilities	4.16
1		NYS Thruway Authority	Gen Rev Jr Indebtedness Oblig Series 2019	1,693.25 Negotiated Bid	Co-Manager	A2;A2	A-;A-	NR;NR	Toll Roads, Highways & Streets	4.44
1	10/22/2019	Massachusetts	General Obligation RANs 2019 Series C	400.00 Competitive Bid	Lead Manager	NR	NR	NR	General Purpose/ Public Imp	
1		San Fran Bay Area Rapid	Sales Tax Revenue Ref Bonds 2019 Series	80.29 Negotiated Bid	Lead Manager	NR	AA+	AA+	Mass Transportation	
1	10/22/2019		Sales Tax Revenue Bonds 2019 Series A	223.02 Negotiated Bid	Lead Manager	NR;NR	AA+;AA+	AA+;AA+	Mass Transportation	
		Trans Dt Massachusetts Housing	Housing Bonds 2019 Series B-1	71.94 Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
1			Housing Bonds 2019 Series B-2	20.06 Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
1	10/23/2019	Fin Agcy Massachusetts Housing	Housing Bonds Series B-3 & B-4	17.09 Private Bid	Sole Manager	NR;NR	NR;NR	NR;NR	Single Family Housing	
1	10/24/2019		Urban Dev Corp St Sales Tx Bonds Series	458.23 Competitive Bid	Sole Manager	Aa1	NR	AA+	Economic Development	
	10/25/2019	Corp Florida Municipal Power	2019 A Refunding Revenue Bonds Series 2019 A	75.22 Negotiated Bid	Lead Manager	A2	NR	AA-	Public Power	2.93
1	10/25/2019	Agency Florida Municipal Power	Refunding Revenue Bonds Series 2019 A	6.67 Negotiated Bid	Lead Manager	A2	NR	AA-	Public Power	2.93
	10/29/2019	Agency AB Won Pat Intl Airport	General Revenue Bonds 2019 Series A	18.65 Negotiated Bid	Lead Manager	Baa2	BBB+	NR	Airports	
1	10/29/2019	Auth AB Won Pat Intl Airport	General Revenue Bonds 2019 Series B	18.40 Negotiated Bid	Lead Manager	Baa2	BBB+	NR	Airports	
	10/29/2019	Auth Ohio	Hospital Refunding Rev Bonds Series 2019	241.84 Negotiated Bid	Lead Manager	Aa2	AA+	NR	General Acute Care Hospital	
	10/30/2019	Klickitat Co Public Utility Dt	G Electric System Rev & Ref Bonds Series	30.39 Negotiated Bid	Sole Manager	A3;A3	NR;NR	A-;A-	Public Power	4.47
	10/30/2019	#1 Klickitat Co Public Utility Dt	2019 A Electric System Rev Ref Bonds Series 2019	28.72 Negotiated Bid	Sole Manager	A3;A3	NR;NR	A-;A-	Public Power	4.47
			B Revenue Bonds Series 2019 A	24.47 Negotiated Bid	Sole Manager	NR	BB+	NR	General Acute Care Hospital	
			Revenue Bonds Series 2019 A	212.32 Negotiated Bid	Sole Manager	NR	BB+	NR	General Acute Care Hospital	
			Revenue Bonds Series 2019 B	25.95 Negotiated Bid	Sole Manager	NR	BB+	NR	General Acute Care Hospital	
		Savannah Hospital	Revenue Anticipation Certs Series 2019 A	106.96 Negotiated Bid	Sole Manager	A3;A3;A3;A3	NR;NR;NR;NR	A-;A-;A-	General Acute Care Hospital	
		Authority Savannah Hospital	Revenue Anticipation Certs Series 2019 B	61.63 Negotiated Bid	Sole Manager	A3	NR	A-	General Acute Care Hospital	
		Authority	Hospital Revenue Bonds Series 2019 C	19.02 Negotiated Bid	Sole Manager	Aaa	NR	A-	General Acute Care Hospital	
		Dev Au Denver City and Co-	Airport System Revenue Bonds Series 2019	120.01 Negotiated Bid	Lead Manager	A1	A+	AA-	Airports	
		Colorado Denver City and Co-	C	_	Lead	A1	A+	AA-	Airports	
		Colorado	Airport System Revenue Bonds Series 2019 D	83.73 Negotiated Bid	Manager;Remarketing Agent			145	, mporto	
		Phoenix City Civic Imp	Rental Car Facility Charge Bonds Series	244.25 Negotiated Bid	Agent Co-Manager	A2;A2;A2	A;A;A	NR;NR;NR	Airports	
	11/6/2019	Corp Phoenix City Civic Imp Corp	2019 A Rental Car Facility Charge Bonds Series 2019 B	60.49 Negotiated Bid	Co-Manager	A2	NR	A	Airports	
	11/6/2019		General Obligation Bonds Series of Nov	300.00 Competitive Bid	Sole Manager	Baa	BBB-	BBB	General Purpose/ Public Imp	
		Massachusetts School	2019 A Subor Dedicated Sales Tax Bonds 2019	715.42 Negotiated Bid	Co-Manager	Aa3;Aa3	AA;AA	AA+;AA+	Primary & Secondary	3.18
	11/8/2019	Bldg Auth Georgia Muni Electric Au	Series B Subordinated Revenue Bonds Series 2019	252.39 Negotiated Bid	Lead Manager	A2;A2	A-;A-	BBB+;BBB+	Education Public Power	3.40
		(MEAG)	A							

11/12/2019	Au	Senior Lien Revenue Bonds Series 2019 A & B	570.94 Negotiated Bid	Co-Manager	A1;A1;A1;A1;A1	A+;A+;A+;A+;A+	A+;A+;A+;A+;A+	Toll Roads, Highways & Streets	
	SC Pub Svc Au (Santee Cooper)	Revenue Refunding Obligation 2019 Series	163.01 Negotiated Bid	Co-Manager	NR	A+	NR	Public Power	
1/13/2019	District of Columbia	Income Tax Secured Rev Bonds Series 2019 B	60.00 Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AA+;AA+	General Purpose/ Public Imp	
11/13/2019	District of Columbia	Income Tax Secured Rev Ref Bonds Series	583.40 Negotiated Bid	Co-Manager	Aa1	AAA	AA+	General Purpose/ Public Imp	
1/13/2019	District of Columbia	2019 C Income Tax Secured Rev Bonds Series	1,302.34 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1	AAA;AAA;AAA;AAA	AA+;AA+;AA+;AA	General Purpose/ Public Imp	
1/13/2019	Washington	2019 A & C Motor Vehicle Fuel Tx GO Ref Bond Series	396.32 Negotiated Bid	Co-Manager	Aaa	AA+	+ AA+	Toll Roads, Highways &	
	NYS Housing Fin-	R-2021 A Homeowner Mortgage Rev Bonds Series	162.61 Negotiated Bid	Lead Manager	Aa1	NR	NR	Streets Single Family Housing	
	Mortgage Agcy	223					NR		
1/19/2019		Higher Educational Fac Rev Bonds Series 2019 B	30.55 Negotiated Bid	Lead Manager	A1	AA-		Higher Education	
	Metropolitan St Louis Sewer Dt	Wastewater System Revenue Bonds Series 2019 B	52.13 Negotiated Bid	Co-Manager	NR;NR;NR	AAA;AAA;AAA	AA+;AA+;AA+	Water & Sewer Facilities	
	Metropolitan St Louis Sewer Dt	Wastewater System Ref Rev Bonds Series 2019 C	276.26 Negotiated Bid	Co-Manager	NR;NR;NR	AAA;AAA;AAA	AA+;AA+;AA+	Water & Sewer Facilities	
1/20/2019	Troy Capital Resource Corporation	Revenue Refunding Bonds Series 2020 A	261.17 Negotiated Bid	Co-Manager	A3	BBB+	NR	Higher Education	
1/20/2019	University of Pittsburgh	University Bonds Series A of 2019	400.00 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Higher Education	
11/20/2019	University of Pittsburgh	Pitt Asset Notes Series of 2019	200.00 Negotiated Bid	Lead Manager;Remarketing	Aa1	AA+	NR	Higher Education	
11/20/2019	Colorado Hsg & Fin Auth	Homeownership Class 1 Bonds Series 2019	65.00 Negotiated Bid	Agent Co-Manager	Aaa	NR	NR	Single Family Housing	
	(CHFA) Massachusetts Housing	CC Housing Bonds 2019 Series D	13.86 Negotiated Bid	Co-Manager	Aa2	AA	NR	Single Family Housing	
	Fin Agcy								
	Massachusetts Housing Fin Agcy	Housing Bonds 2019 Series C-1	92.92 Negotiated Bid	Co-Manager	Aa2	AA	NR	Single Family Housing	
	Massachusetts Housing Fin Agcy	Housing Bonds 2019 Series C-2	1.28 Negotiated Bid	Co-Manager	Aa2	AA	NR	Single Family Housing	
11/21/2019	Indianapolis Loc Pub Imp Bond Bank	Revenue Bonds Series 2019 I-1 &2	67.60 Negotiated Bid	Lead Manager	A1;A1	NR;NR	A;A	Airports	
1/21/2019	NYS Dorm Authority	Facilities Revenue Bonds Series 2019 B	560.80 Negotiated Bid	Co-Manager	Aa3;Aa3	NR;NR	A+;A+	Higher Education	
	NYS Dorm Authority Illinois Housing Dev	Facilities Revenue Bonds Series 2019 A Revenue Bonds 2019 Series D	141.49 Negotiated Bid 125.00 Negotiated Bid	Co-Manager Co-Manager	Aa3;Aa3;Aa3 Aaa	NR;NR;NR NR	A+;A+;A+ NR	Higher Education Single Family Housing	
12/4/2019	Authority	Major New St Infra Proj Rev Bonds Series	180.01 Negotiated Bid	Co-Manager	Aa2	AA	NR	Economic Development	
		2019-1		·					
12/4/2019	UIIIO	Higher Educational Fac Rev Bonds Series 2019 C	35.82 Negotiated Bid	Lead Manager;Remarketing	A1 I	AA-	NR	Higher Education	
12/4/2019	New Jersey Trans Trust	Transporation System Bonds 2019 Series B	946.34 Negotiated Bid	Agent Co-Manager	Baa1;Baa1;Baa1	BBB+;BBB+;BBB+	A-;A-;A-	Mass Transportation	
	Fund Au New Jersey Trans Trust	Transporation System Bonds 2019 Series A	619.78 Negotiated Bid	Co-Manager	Baa1	BBB+	A-	Mass Transportation	
	Fund Au	Multi-Family Revenue Bonds 2019 Series A		Co-Manager		NR	NR		
	Illinois Housing Dev Authority		41.55 Negotiated Bid		NR			Multi Family Housing	
	Agency	Multi-Family Revenue Bonds 2019 Series A & B	37.79 Negotiated Bid	Lead Manager	NR;NR	AA-;AA-	NR;NR	Multi Family Housing	
	Agency	Multi-Family Revenue Bonds 2019 Series A	50.14 Negotiated Bid	Lead Manager	NR	AA-	NR	Multi Family Housing	
12/4/2019	NYS Housing Fin- Mortgage Agcy	Affordable Housing Revenue Bonds 2019 Series P & O	438.12 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;A	NR;NR;NR;NR;NR;NR;NR;N R;NR;NR;NR;NR;NR	NR;NR;NR;NR;NR;NR	Multi Family Housing	
			0.00 %	0. M	2;Aa2;Aa2;Aa2		R;NR;NR	Maki Familia Hamilia	
	NYS Housing Fin- Mortgage Agcy	Affordable Housing Revenue Bonds 2019 Series R	6.00 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
	NYS Housing Fin- Mortgage Agcy	Homeowner Mtg Rev Bonds Series 224	40.00 Negotiated Bid	Sole Manager	NR	NR	NR	Single Family Housing	
12/5/2019	Fulton Co Development Authority	Revenue Bonds Series 2019	51.73 Negotiated Bid	Sole Manager	Aa1	AA+	NR	Higher Education	
12/5/2019	Metro Washington Airports	Toll Road Sub Lien Rev&Ref Bonds Series	1,269.37 Negotiated Bid	Co-Manager	Baa2;Baa2;Baa2;Baa2;	A-;A-;A-;A-;A-	NR;NR;NR;NR;NR	Toll Roads, Highways &	
12/5/2019	Auth NYC Municipal Water Fin	2019 B Wtr & Swr Sys 2nd Gen Reso Bonds Series	637.67 Negotiated Bid	Co-Manager	Baa2;Baa2 Aa1;Aa1	AA+;AA+	AA+;AA+	Streets Water & Sewer Facilities	
	Auth California Municipal Fin	CC-1 &2 Revenue Bonds Series 2019 A	48.52 Negotiated Bid	Sole Manager	NR;NR;NR	NR;NR;NR	NR;NR;NR	General Acute Care Hospital	
	Auth California Municipal Fin	Revenue Bonds Series 2019 B	10.33 Negotiated Bid	Sole Manager	NR .	NR .	NR	General Acute Care Hospital	
	Auth								
	Spokane Co-Washington	Limited Tax GO & Refunding Bonds Series 2019 A & B	59.94 Negotiated Bid	Sole Manager	Aa1;Aa1	AA+;AA+	NR;NR	General Purpose/ Public Imp	
12/6/2019	Spokane Co-Washington	Limited Tax GO Refunding Bonds Series 2019 C	33.14 Negotiated Bid	Sole Manager	Aa1	AA+	NR	General Purpose/ Public Imp	
12/6/2019	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2019 Series J	243.17 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
12/6/2019	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2019 Series L	71.33 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
		Hospital Revenue Ref Bonds Series 2019 E	95.95 Private Bid	Sole	NR	NR	NR	General Medical	
	Corp			Manager;Remarketing Agent					
	Foothill/Eastern Transp Corridor Agy	Toll Road Refunding Rev Bonds Series 2019 A	897.06 Negotiated Bid	Co-Manager	Baa2;Baa2;Baa2	A-;A-;A-	BBB;BBB;BBB	Toll Roads, Highways & Streets	
12/11/2019	Snohomish Co Pub Utility Dt #1								
		Water System Revenue Ref Bonds Series	6.57 Negotiated Bid	Sole Manager	Aa2	NR	NR	Water & Sewer Facilities	
	Maricopa Co Industrial Dev	Water System Revenue Ref Bonds Series 2019 Educational Facs Rev Bonds Series 2020	6.57 Negotiated Bid 62.65 Negotiated Bid	Sole Manager Lead Manager	Aa2 A2	NR NR	NR NR		
12/12/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series						Water & Sewer Facilities	
12/12/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Agcy	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213	62.65 Negotiated Bid 4.50 Negotiated Bid	Lead Manager Co-Manager	A2 Aa1	NR AA+	NR NR	Water & Sewer Facilities Higher Education Single Family Housing	
12/12/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Agcy Massachusetts Housing Fin Agcy	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid	Lead Manager Co-Manager Co-Manager	A2 Aa1	NR AA+ AA+;AA+;AA+;AA+	NR NR NR;NR;NR;NR	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing	
12/12/2019 12/12/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Açcy Massachusetts Housing Fin Agcy Connecticut	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid	Lead Manager Co-Manager Co-Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1	NR AA+ AA+;AA+;AA+;AA+	NR NR NR;NR;NR;NR;NR	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Agov Massachusetts Housing Fin Agoy Connecticut	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid	Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1	NR AA+ AA+;AA+;AA+;AA+;AA+ A	NR NR NR;NR;NR;NR;NR A+ A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Açcy Massachusetts Housing Fin Agcy Connecticut	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid	Lead Manager Co-Manager Co-Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1	NR AA+ AA+;AA+;AA+;AA+	NR NR NR;NR;NR;NR;NR	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Agov Massachusetts Housing Fin Agoy Connecticut	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid	Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1	NR AA+ AA+;AA+;AA+;AA+;AA+ A	NR NR NR;NR;NR;NR;NR A+ A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accv Massachusetts Housing Fin Agcy Connecticut Connecticut Connecticut	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid	Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1 A1	NR AA+ AA+;AA+;AA+;AA+;AA+ A A	NR NR NR;NR;NR;NR;NR A+ A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Acy Massachusetts Housing Fin Agoy Connecticut Connecticut Connecticut	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 73.11 Negotiated Bid	Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1 A1 A1	NR AA+ AA+;AA+;AA+;AA+;AA+ A A A A	NR NR NR;NR;NR;NR;NR A+ A+ A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Acry Massachusetts Housing Fin Agry Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-3	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 73.11 Negotiated Bid 154.99 Negotiated Bid	Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1 A1 A1	NR	NR NR NR:NR:NR:NR:NR A+ A+ A+ A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Accy Connecticut	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-6	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 73.11 Negotiated Bid 73.11 Negotiated Bid 154.99 Negotiated Bid 104.97 Negotiated Bid 27.90 Negotiated Bid	Lead Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1 A1 A1 A1 A1 A1	NR AA+ AA+;AA+;AA+;AA+ A A A A A A A A A A	NR NR NR:NR:NR:NR:NR:NR A+ A+ A+ A+ A+ A+ A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Accy Connecticut Connecti	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 Goneral Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-5 Future Tax Secured Sub Bonds Sub Series 1	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 320.14 Negotiated Bid 73.11 Negotiated Bid 154.99 Negotiated Bid 104.97 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid	Lead Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1 A1 A1 A1 A1 A1 A1 A1 A1	NR AA+ AA+;AA+;AA+;AA+;AA+ A A A A A A A A	NR NR NR:NR:NR:NR:NR:NR A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Acry Massachusetts Housing Fin Acry Connecticut NYC Transitional Finance Auth NYC Transitional Finance Auth Auth Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Auth NYC Transitional Finance Auth Auth Connecticut	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 Goneral Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-5 Future Tax Secured Sub Bonds Sub Series B-1 Future Tax Secured Sub Bonds Sub Series B-1	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 320.14 Negotiated Bid 73.11 Negotiated Bid 154.99 Negotiated Bid 104.97 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid 510.00 Negotiated Bid	Lead Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1 A1 A1 A1 A1 A1 A1 A1 A1	NR AA+ AA+;AA+;AA+;AA+;AA+ A A A A A A A A	NR NR NR:NR:NR:NR:NR:NR A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Accy Connecticut MYC Transitional Finance Auth NYC Transitional Finance Auth Massachusetts Dev Finance Agry	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 Goneral Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-5 Future Tax Secured Sub Bonds Sub Series B-1 Future Tax Secured Sub Bonds Sub Series B-1 Revenue Bonds Series P 2020	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 73.11 Negotiated Bid 154.99 Negotiated Bid 104.97 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid 510.00 Negotiated Bid	Lead Manager Co-Manager Lead Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1	NR AA+ AA+;AA+;AA+;AA+ A A A A A A A A A A	NR NR NR:NR:NR:NR:NR:NR A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp Higher Education	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Agry Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut Vornecticut NYC Transitional Finance Auth NYC Transitional Finance Auth Massachusetts Dev Finance Agry Cut Texas Reg Mobility Au	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 Goneral Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-5 Future Tax Secured Sub Bonds Sub Series B-1 Future Tax Secured Sub Bonds Sub Series B-1	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 320.14 Negotiated Bid 73.11 Negotiated Bid 154.99 Negotiated Bid 104.97 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid 510.00 Negotiated Bid	Lead Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1 A1 A1 A1 A1 A1 A1 A1 A1	NR AA+ AA+;AA+;AA+;AA+;AA+ A A A A A A A A	NR NR NR:NR:NR:NR:NR:NR A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/17/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Agry Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut NYC Transitional Finance Auth NYC Transitional Finance Auth NYC Transitional Finance Auth CUTRMAN Massachusetts Dev Finance Agry Cut I Yeava Reg Mobility Au (CTRMA) Maine State Housing	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 Goneral Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-5 Future Tax Secured Sub Bonds Sub Series B-1 Future Tax Secured Sub Bonds Sub Series B-1 Revenue Bonds Series P 2020	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 73.11 Negotiated Bid 154.99 Negotiated Bid 104.97 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid 510.00 Negotiated Bid	Lead Manager Co-Manager Lead Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1	NR AA+ AA+;AA+;AA+;AA+ A A A A A A A A A A	NR NR NR:NR:NR:NR:NR:NR A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp Higher Education	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/17/2019 12/17/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Accy Connecticut MYC Transitional Finance Auth NYC Transitional Finance Auth Missachusetts Dev Finance Agunt Massachusetts Dev Finance Agunt CiTEMAI) CITEMAI Planace Agunt Massachusetts Dev Finance Agunt Missachusetts	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-6 Future Tax Secured Sub Bonds Sub Series B-1 Future Tax Secured Sub Bonds Sub Series B-1 Revenue Bonds Series 2020 A Mortgage Purchase Bonds Series 2020 A Mortgage Purchase Bonds Series A-5 State Personal Inc Tax Rev Bonds Series	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 73.11 Negotiated Bid 154.99 Negotiated Bid 104.97 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid 510.00 Negotiated Bid 136.06 Negotiated Bid	Lead Manager Co-Manager Lead Manager Lead Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1	NR AA+ AA+;AA+;AA+;AA+ A A A A A A A A A A	NR NR NR:NR:NR:NR:NR A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp Higher Education Mass Transportation	
12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/17/2019 12/17/2019 12/17/2019 12/17/2019 12/17/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Accy Connecticut Connecti	2019 Single Family Housing Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series A GO Refunding Bonds 2020 Series A General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-6 Feneral Obligation Bonds 2020 Series A-6 Feneral Obligation Bonds 2020 Series A-6 Future Tax Secured Sub Bonds Sub Series State Personal Bonds 2020 Series A State Personal Inc Tax Rev Bonds Series 2019 D	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 73.11 Negotiated Bid 73.11 Negotiated Bid 154.99 Negotiated Bid 104.97 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid 510.00 Negotiated Bid 510.00 Negotiated Bid 50.27 Negotiated Bid 34.35 Negotiated Bid	Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1	NR AA+ AA+;AA+;AA+;AA+ A A A A A A A A A A	NR NR NR:NR:NR:NR:NR A+ A+ A+ A+ A+ A+ A+ A+ A+ NR NR NR NR NR:NR:NR:NR:NR	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp Higher Education Mass Transportation Single Family Housing	
12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/17/2019 12/17/2019 12/17/2019 12/17/2019 12/18/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Accy Connecticut Massachusetts Prinario Accy Connecticut Conn	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 Goneral Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-5 Future Tax Secured Sub Bonds Sub Series B-1 Revenue Bonds Series 2020 Series A-1 Revenue Bonds Series 2020 A Mortgage Purchase Bonds 2020 Series A-1 State Personal Inc Tax Rev Bonds Series 2019 D State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 373.11 Negotiated Bid 154.99 Negotiated Bid 104.97 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid 510.00 Negotiated Bid 136.06 Negotiated Bid 50.27 Negotiated Bid 34.35 Negotiated Bid 1,973.58 Negotiated Bid	Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1	NR AA+ AA+;AA+;AA+;AA+ A A A A A A A A A A	NR NR NR:NR:NR:NR:NR A+ AAA AAA AAA AAA AAA NR NR NR NR NR:NR:NR:NR:NR:NR AA+:AA+ AA+:AA+ AA+ AA+:AA+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing General Purpose/ Public Imp	
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12/12/2019 112/12/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019 112/13/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Agry Connecticut NYC Transitional Finance Auth NYC Transitional Finance A	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-6 Future Tax Secured Sub Bonds Sub Series B-1 Future Tax Secured Sub Bonds Sub Series B-1 Revenue Bonds Series 2020 A Mortgage Purchase Bonds 2020 Series A State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2020 A Hospital Revenue Bonds Series 2020 A Hospital Revenue Bonds Series 2020 A Hospital Revenue Bonds Series 2020 B	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 320.14 Negotiated Bid 154.99 Negotiated Bid 27.90 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid 510.00 Negotiated Bid 510.00 Negotiated Bid 50.27 Negotiated Bid 136.06 Negotiated Bid 11,973.58 Negotiated Bid 1,973.58 Negotiated Bid 1,973.59 Negotiated Bid 39.46 Negotiated Bid 290.40 Negotiated Bid	Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1	NR AA+ AA+;AA+;AA+;AA+ A A A A A A A A A A	NR NR NR.NR.NR.NR.NR.NR A+ A+ A+ A+ A+ A+ A+ A+ A+ AAA AAA AAA	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing General Purpose/ Public Imp General Aurte Care Hospital General Acute Care Hospital	
12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/17/2019 12/17/2019 12/18/2019 12/18/2019 12/18/2019 12/18/2019	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Agry Connecticut NYC Transitional Finance Auth NYC Transitional Finance A	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 General Obligation Bonds 2020 Series A-6 Fultre Tax Secured Sub Bonds Sub Series B-1 Revenue Bonds Series 2020 A Mortgage Purchase Bonds 2020 Series A State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2020 A	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 373.11 Negotiated Bid 154.99 Negotiated Bid 104.97 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid 510.00 Negotiated Bid 510.00 Negotiated Bid 50.27 Negotiated Bid 34.35 Negotiated Bid 1,973.58 Negotiated Bid 1,973.58 Negotiated Bid 1,973.59 Negotiated Bid 39.46 Negotiated Bid 39.46 Negotiated Bid	Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1	NR AA+ AA+;AA+;AA+;AA+ A A A A A A A A A A	NR NR NR:NR:NR:NR:NR A+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing General Purpose/ Public Imp General Acute Care Hospital	
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12/12/2019 12/12/2019 12/12/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 12/13/2019 11/15/2020 11/15/2020	Maricopa Co Industrial Dev Auth Massachusetts Housing Fin Accy Massachusetts Housing Fin Agry Connecticut Connecticut Connecticut Connecticut Connecticut Connecticut NYC Transitional Finance Auth NYC Transitional Finance Auth NYC Transitional Finance Auth NYC Transitional Finance Auth Massachusetts Dev Finance Agry Cut Texas Reg Mobility Au (CTRMA) Maine State Housing Authority NYS Dorm Authority NYS Dorm Authority NYS Dorm Authority NYS Dorm Authority Ohio Ohio Ohio New Jersey Econ Dev Auth San Antonio City-Texas	2019 Educational Facs Rev Bonds Series 2020 Single Family Housing Rev Bonds Series 213 Single Family Housing Rev Bonds Series 214 General Obligation Bonds 2020 Series A GO Refunding Bonds 2020 Series B General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-2 General Obligation Bonds 2020 Series A-3 General Obligation Bonds 2020 Series A-4 General Obligation Bonds 2020 Series A-5 Future Tax Secured Sub Bonds Sub Series B-1 Sub Personal Inc Tax Rev Bonds Series 2020 A Mortgage Purchase Bonds 2020 Series A State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F State Personal Inc Tax Rev Bonds Series 2019 F Hospital Revenue Bonds Series 2020 A Hospital Revenue Bonds Series 2020 B Hospital Revenue Bonds Series 2020 C Revenue Bonds 2020 Series A	62.65 Negotiated Bid 4.50 Negotiated Bid 73.71 Negotiated Bid 18.90 Negotiated Bid 18.90 Negotiated Bid 194.64 Negotiated Bid 320.14 Negotiated Bid 320.14 Negotiated Bid 154.99 Negotiated Bid 27.90 Negotiated Bid 27.90 Negotiated Bid 340.00 Negotiated Bid 510.00 Negotiated Bid 510.00 Negotiated Bid 136.06 Negotiated Bid 34.35 Negotiated Bid 1,973.58 Negotiated Bid 1,973.58 Negotiated Bid 39.46 Negotiated Bid 290.40 Negotiated Bid 50.00 Negotiated Bid 50.00 Negotiated Bid 50.00 Negotiated Bid	Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager	A2 Aa1 Aa1;Aa1;Aa1;Aa1;Aa1 A1	NR AA+ AA+;AA+;AA+;AA+ A A A A A A A A A A	NR NR NR.NR.NR.NR.NR.NR A+ A+ A+ A+ A+ A+ A+ A+ AAA AAA AAA NR NR NR NR.NR.NR.NR.NR.NR AA+.AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+	Water & Sewer Facilities Higher Education Single Family Housing Single Family Housing General Purpose/ Public Imp General Acute Care Hospital Mass Transportation	

1/16/2020	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2020 Series C-1	34.81 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa	AAA;AAA;AAA	NR;NR;NR	Single Family Housing	2.6
	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2020 Series	50.03 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	3.7
1/17/2020	North Miami Beach City-	Water Revenue Bonds Series 2020 A	40.03 Negotiated Bid	Sole Manager	NR;NR;NR	A+;A+;A+	AA-;AA-;AA-	Water & Sewer Facilities	2.1
	Florida North Miami Beach City-	Water Revenue Refunding Bonds Series	39.95 Negotiated Bid	Sole Manager	NR	A+	AA-	Water & Sewer Facilities	2.1
	Florida Massachusetts Dev	2020 B Revenue Bonds Series A-2 (2020)	228.87 Negotiated Bid	Co-Manager	Aa3	AA-	NR	General Acute Care Hospital	
	Finance Agcy Massachusetts Dev	Revenue Bonds Series A-1 (2020)	76.02 Negotiated Bid	Co-Manager	Aa3	AA-	NR	General Acute Care Hospital	
	Finance Agcy				Aa2	NR	AA		4.6
	Wisconsin	Gen Fund Annual Appro Ref Bonds 2020 of Series A	623.32 Negotiated Bid	Co-Manager				General Purpose/ Public Imp	
	Maryland Hlth & Hghr Ed Facs Au	Rev Bonds Integrace Issue Series 2020 A	87.11 Private Bid	Sole Manager;Remarketing Agent	NR	NR	NR	Cont Care Retirement Community	0.4
	Maryland Hith & Hghr Ed Facs Au	Rev Bonds Integrace Issue Series 2020 B	12.20 Private Bid	Sole Manager	NR	NR	NR	Cont Care Retirement Community	0.0
/30/2020		Housing Mtg Finance Program Bonds 2020 Series A-4	12.50 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	0.6
1/30/2020	Connecticut Housing & Fin	Housing Mtg Finance Program Bonds 2020	29.96 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	1.6
1/30/2020	Auth (CHFA) Connecticut Housing & Fin	Series A-2 Housing Mtg Finance Program Bonds 2020	71.65 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA	NR;NR;NR;NR	Single Family Housing	3.9
2/4/2020	Auth (CHFA) Pennsylvania State	Series A-1 Revenue Bonds Series A of 2020	80.50 Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1	AA;AA;AA	NR;NR;NR	Higher Education	2.8
	University Pennsylvania State	Revenue Bonds Series B of 2020	331.04 Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1	AA;AA;AA	NR;NR;NR	Higher Education	2.8
	University California State Univ	Systemwide Revenue Bonds Series 2020 B	243.41 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA-;AA-;AA-	NR;NR;NR	Higher Education	0.8
	Trustees California State Univ	Systemwide Revenue Bonds Series 2020 B	586.02 Negotiated Bid	Co-Manager	Aa2	AA-	NR	Higher Education	1.9
	Trustees	.,							
	NYC Housing Dev Corp NYC Housing Dev Corp	Housing Impact Bonds 2020 Series B Housing Impact Bonds 2020 Series A	78.62 Negotiated Bid 296.38 Negotiated Bid	Co-Manager Co-Manager	Aa2;Aa2;Aa2 Aa2;Aa2;Aa2	NR;NR;NR NR;NR;NR	NR;NR;NR NR;NR;NR	Multi Family Housing Multi Family Housing	1.4 5.6
2/5/2020	American Municipal Power Inc	Revenue Refunding Bonds Series 2020 A	105.31 Negotiated Bid	Co-Manager	A2	A	NR	Public Power	
	Cleveland City-Ohio	Public Power System Rev Ref Bonds Series 2020 B	20.47 Negotiated Bid	Co-Manager	A3	A-	NR	Public Power	
2/5/2020	Cleveland City-Ohio	Public Power System Rev Ref Bonds Series	63.11 Negotiated Bid	Co-Manager	A3	A-	NR	Public Power	
2/6/2020	NYC Municipal Water Fin	2020 A Water & Sewer System Rev Bonds	481.25 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1;Aa1;A	AA+;AA+;AA+;AA+;AA+	; AA+;AA+;AA+;AA+;A	A Water & Sewer Facilities	4.9
	Auth NYC Municipal Water Fin	20SerDD Sub DD1 &DD3 Water & Sewer System Rev Bonds 20 Ser	47.04 Negotiated Bid	Co-Manager	a1;Aa1 Aa1	AA+ AA+	+;AA+;AA+ AA+	Water & Sewer Facilities	4.2
	Auth Massachusetts Dev	DD Subser DD2		Co-Manager		NR	NR NR		4.2
	Finance Agcy	Revenue Notes Series EE	1,000.00 Private Bid		NR			Higher Education	
	Roanoke Economic Dev Authority	Hospital Revenue Bonds Series 2020 D	38.18 Negotiated Bid	Lead Manager;Remarketing	Aa3	AA-	NR	General Acute Care Hospital	4.6
2/11/2020	Roanoke Economic Dev	Hospital Revenue Bonds Series 2020 A	250.35 Negotiated Bid	Agent Lead Manager	Aa3;Aa3;Aa3;Aa3	AA-;AA-;AA-	NR:NR:NR:NR	General Acute Care Hospital	4.9
	Authority El Paso City-Texas	GO Refunding & Improvement Bonds Series	113.94 Negotiated Bid	Co-Manager	NR;NR	AA;AA	AA;AA	General Purpose/ Public Imp	
		2020 A							
	El Paso City-Texas	Comb Tx & Rev Certs of Obligation Series 2020	84.86 Negotiated Bid	Co-Manager	NR;NR	AA;AA	AA;AA	General Purpose/ Public Imp	
2/11/2020	El Paso City-Texas	GO Refunding Bonds Series 2020 B	23.04 Negotiated Bid	Co-Manager	NR	AA	AA	General Purpose/ Public Imp	4.5
	Grand Parkway Transport Corp	1st Tier Toll Revenue Ref Bonds Series 2020 C	793.39 Negotiated Bid	Co-Manager	A2;A2;A2	NR;NR;NR	A+;A+;A+	Toll Roads, Highways & Streets	5.0
2/11/2020	Grand Parkway Transport Corp	1st Tier Toll Revenue Ref Bonds Series 2020 A	220.42 Negotiated Bid	Co-Manager	A2;A2;A2;A2	NR;NR;NR;NR	A+;A+;A+;A+	Toll Roads, Highways & Streets	4.9
2/11/2020	Grand Parkway Transport	Sub Tier Toll Revenue Ref Bonds Series	1,293.26 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	NR;NR;NR;NR	AA;AA;AA	Toll Roads, Highways &	4.9
	Corp New York City-New York	2020 B General Obligation Bonds Subser C-1	1,081.39 Negotiated Bid	Co-Manager	Aa1	AA	AA	Streets General Purpose/ Public Imp	3.7
2/19/2020	New Jersey Educational	Revenue Bonds 2020 Series A	174.32 Negotiated Bid	Lead Manager	NR;NR;NR;NR	BBB+;BBB+;BBB+;BBB+	NR;NR;NR;NR	Higher Education	3.4
	Facs Au District of Columbia	Income Tax Secured Rev & Ref Bond Series	1,032.55 Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1	AAA;AAA;AAA	AA+;AA+;AA+;AA+	General Purpose/ Public Imp	4.1
		2020 A & B							
	Los Angeles Dept of Airports	Senior Refunding Revenue Bonds 2020 Series A	738.58 Negotiated Bid	Co-Manager	Aa2	AA	AA	Airports	2.1
	Buckeye Tobacco Settle Fin Au	Tobacco Settle Asset-Backed Bonds Series 2020 A1 & B1	428.40 Negotiated Bid	Co-Manager	NR;NR	A;BBB+	NR;NR	General Purpose/ Public Imp	0.4
	Buckeye Tobacco Settle Fin Au	Tobacco Settle Asset-Backed Bonds Series 2020 A2 & B2	4,519.51 Negotiated Bid	Co-Manager	NR;NR;NR;NR	BBB+;BBB+;NR;A-;BBB+	NR;NR;NR;NR	General Purpose/ Public Imp	4.2
2/25/2020	Buckeye Tobacco Settle Fin Au	Tobacco Settle Asset-Backed Bonds Series 2020 B-3	404.29 Negotiated Bid	Co-Manager	NR	NR	NR	General Purpose/ Public Imp	0.3
2/25/2020	Ohio University	General Receipts Bonds Series 2020	222.58 Negotiated Bid	Lead Manager	Aa3;Aa3;Aa3	A+;A+;A+	NR;NR;NR	Higher Education	2.8
	West Virginia University Bd of Gov	Refunding Revenue Bonds 20220 Series A	377.79 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	NR;NR;NR	AA-;AA-;AA-	Higher Education	1.8
	Narragansett Bay Commission	Wastewater System Ref Rev Bonds 2020 Series A	196.36 Negotiated Bid	Lead Manager	NR;NR	AA-;AA-	NR;NR	Water & Sewer Facilities	4.4
2/27/2020	Regents of the University of California	Medical Center Pooled Rev Bonds 2020 Series O-1	74.61 Negotiated Bid	Sole Manager;Remarketing	Aa3	AA-	AA-	General Acute Care Hospital	0.6
	Regents of the University	Medical Center Pooled Rev Bonds 2020	650.00 Negotiated Bid	Agent Lead Manager	Aa3	AA-	AA-	Higher Education	1.2
	of California Regents of the University	Series N Medical Center Pooled Rev Bonds 2020	850.00 Negotiated Bid	Lead Manager	Aa3	AA-	AA-	Higher Education	1.6
	of California Regents of the University	Series N Medical Center Pooled Rev Bonds 2020	300.00 Negotiated Bid	Lead Manager	Aa3	AA-	AA-	Higher Education	0.6
	of California	Series N Homeowner Mortgage Rev Bonds Series	100.63 Negotiated Bid	Co-Manager	Aa1	NR.	NR.	Single Family Housing	0.0
	NYS Housing Fin- Mortgage Agcy	225							
	NYS Housing Fin- Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 226	46.69 Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
	Maine State Housing Authority	Mortgage Purchase Bonds 2020 Series B	50.00 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
	Massachusetts Dev Finance Agcy	Revenue Refunding Bonds Series 2020 A	54.51 Negotiated Bid	Co-Manager	Baa2;Baa2	NR;NR	BBB;BBB	Higher Education	3.
	New York City-New York	General Obligation Bonds 20 Ser D Subser D-1	800.00 Negotiated Bid	Co-Manager	Aa1;Aa1	AA;AA	AA;AA	General Purpose/ Public Imp	4.
				0-1- 14	Aa3	A+	NR	Higher Education	
3/5/2020	Boise State University	General Revenue Ref Bonds Series 2020 A	9.94 Negotiated Bid	Sole Manager	ABS				
	Boise State University Boise State University	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series	9.94 Negotiated Bid 44.55 Negotiated Bid	Sole Manager	Aa3	A+	NR	Higher Education	
3/5/2020	Boise State University	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B	44.55 Negotiated Bid	Sole Manager	Aa3	A+		•	
3/5/2020 3/5/2020	Boise State University Massachusetts Dev Finance Agcy	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020)	44.55 Negotiated Bid 77.26 Negotiated Bid	Sole Manager Sole Manager	Aa3 Baa1	A+ BBB+	NR	Higher Education	2.
3/5/2020 3/5/2020 1/10/2020	Boise State University Massachusetts Dev Finance Agcy California	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2	44.55 Negotiated Bid 77.26 Negotiated Bid 2,095.65 Negotiated Bid	Sole Manager Sole Manager Co-Manager	Aa3 Baa1 Aa2;Aa2	A+ BBB+ AA-;AA-	NR AA;AA	Higher Education General Purpose/ Public Imp	
3/5/2020 3/5/2020 3/10/2020 3/10/2020	Boise State University Massachusetts Dev Finance Agcy California Massachusetts Dev Finance Agcy	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020	44.55 Negotiated Bid 77.26 Negotiated Bid 2,095.65 Negotiated Bid 148.82 Negotiated Bid	Sole Manager Sole Manager Co-Manager Sole Manager	Aa3 Baa1 Aa2;Aa2 Aa3	A+ BBB+ AA-;AA- AA-	NR AA;AA NR	Higher Education General Purpose/ Public Imp Higher Education	3.
3/5/2020 3/5/2020 1/10/2020 1/10/2020 1/11/2020	Boise State University Massachusetts Dev Finance Agcy California Massachusetts Dev	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020	44.55 Negotiated Bid 77.26 Negotiated Bid 2,095.65 Negotiated Bid	Sole Manager Sole Manager Co-Manager	Aa3 Baa1 Aa2;Aa2	A+ BBB+ AA-;AA-	NR AA;AA	Higher Education General Purpose/ Public Imp	3.9
3/5/2020 3/5/2020 1/10/2020 1/10/2020 1/11/2020 1/11/2020	Boise State University Massachusetts Dev Finance Agcy California Massachusetts Dev Finance Agcy Illinois Finance Authority NYC Housing Dev Corp	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A	44.55 Negotiated Bid 77.26 Negotiated Bid 2,095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid	Sole Manager Sole Manager Co-Manager Sole Manager Co-Manager	Aa3 Baa1 Aa2;Aa2 Aa3 Aa2;Aa2;Aa2	A+ BBB+ AA-;AA- AA- AA-;AA-;AA-	NR AA;AA NR AA+;AA+;AA+	Higher Education General Purpose/ Public Imp Higher Education Higher Education	3.
3/5/2020 3/5/2020 8/10/2020 8/10/2020 8/11/2020 8/11/2020 8/11/2020	Boise State University Massachusetts Dev Finance Agcy California Massachusetts Dev Finance Agcy Illinois Finance Authority NYC Housing Dev Corp Colorado Hsg & Fin Auth (CHFA)	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020 Series A-2 Homeownership Class I Bonds Series 2020 AA	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid	Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa3 Baa1 Aa2:Aa2 Aa3 Aa2:Aa2:Aa2 Aa2	A+ BBB+ AA-;AA- AA- AA-;AA-;AA- AA+	NR AA;AA NR AA+;AA+;AA+ NR NR	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing	3. 2.
3/5/2020 3/5/2020 3/5/2020 3/10/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020	Bolse State University Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry Lillinois Finance Authority NYC Housing Dev Corp Colorado Hsg & Fin Auth (CHFA) NYC Municipal Water Fin Auth	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020 Series A-2 Homeownership Class I Bonds Series 2020 A Wirk Swr Sys Znd Gen Res Rev Bond Series E-2	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid 399.32 Negotiated Bid	Sole Manager Sole Manager Co-Manager Sole Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa3 Baa1 Aa2:Aa2 Aa3 Aa2:Aa2:Aa2 Aa2 Aaa Aa1	A+ BBB+ AA-AA- AA- AA- AA- AA- AA+ AA+ AA+	NR AA;AA NR AA+;AA+;AA+ NR NR AA+	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing Water & Sewer Facilities	3. 2.
3/5/2020 3/5/2020 3/10/2020 3/10/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020	Boise State University Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry Lillinois Finance Authority NYC Housing Dev Corp Colorado Hsg & Fin Auth (CHFA) NYC Municipal Water Fin Auth NYC Housing Dev Corp	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series W (2020) Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020 Series A-2 Homeownership Class I Bonds Series 2020 AM Wir&Sw Sys Znd Gen Res Rev Bond Series E-2 Multi-Family Housing Rev Bonds 2020 Series A-1 Multi-Family Housing Rev Bonds 2020 Series A-1 Multi-Family Housing Rev Bonds 2020	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid 399.32 Negotiated Bid 22.04 Negotiated Bid	Sole Manager Sole Manager Co-Manager Sole Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager	Aa3 Baa1 Aa2;Aa2 Aa3 Aa2;Aa2;Aa2 Aa2 Aaa Aa1	A+ BBB+ AA-AA- AA- AA- AA- AA- AA+ AA+ AA+ AA+	NR AA;AA NR AA+;AA+;AA+ NR NR AA+	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing Water & Sewer Facilities Multi Family Housing	3. 2.
3/5/2020 3/5/2020 3/10/2020 3/10/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020 3/12/2020	Bolse State University Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry Lillinois Finance Authority NYC Housing Dev Corp Colorado Hsg & Fin Auth (CHFA) NYC Municipal Water Fin Auth	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020 Series A-2 Homoownership Class I Bonds Series 2020 AA WirkSwr Sys 2nd Gen Res Rev Bond Series E Multi-Family Housing Rev Bonds 2020	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid 399.32 Negotiated Bid	Sole Manager Sole Manager Co-Manager Sole Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa3 Baa1 Aa2:Aa2 Aa3 Aa2:Aa2:Aa2 Aa2 Aaa Aa1	A+ BBB+ AA-AA- AA- AA- AA- AA- AA+ AA+ AA+	NR AA;AA NR AA+;AA+;AA+ NR NR AA+	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing Water & Sewer Facilities	3. 2.
3/5/2020 3/5/2020 3/5/2020 3/10/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020 3/12/2020 3/24/2020	Boise State University Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry Illinois Finance Authority NYC Housing Dev Corp Colorado Heg & Fin Auth (CHFA) NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth With Colorado Heg & Fin Edwick California Health Facs Fin California Health Facs Fin California Health Facs Fin	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series W (2020) Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020 Series A-2 Homeownership Class I Bonds Series 2020 AM Wir&Sw Sys Znd Gen Res Rev Bond Series E-2 Multi-Family Housing Rev Bonds 2020 Series A-1 Multi-Family Housing Rev Bonds 2020 Series A-1 Multi-Family Housing Rev Bonds 2020	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid 399.32 Negotiated Bid 22.04 Negotiated Bid	Sole Manager Sole Manager Co-Manager Sole Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager	Aa3 Baa1 Aa2;Aa2 Aa3 Aa2;Aa2;Aa2 Aa2 Aaa Aa1	A+ BBB+ AA-AA- AA- AA- AA- AA- AA+ AA+ AA+ AA+	NR AA;AA NR AA+;AA+;AA+ NR NR AA+	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing Water & Sewer Facilities Multi Family Housing	3. 2.
3/5/2020 3/5/2020 3/10/2020 3/10/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020 3/26/2020 4/7/2020	Boise State University Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry Illinois Finance Authority NYC Housing Dev Corp Colorado Hag & Fin Auth (CHFA) NYC Municipal Water Fin Auth NYC Housing Dev Corp Wisconsin Hith & Ed Fac Auth (WHEFA) California Health Facs Fin Auth Toxas Public Finance Auth	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020 Series A-2 Homeownership Class I Bonds Series 2020 AA WW&Swys Znd Gen Res Rev Bond Series E-1 Multi-Family Housing Rev Bonds 2020 Series A-1 Revenue Bonds Series 2020	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid 399.32 Negotiated Bid 22.04 Negotiated Bid 22.50 Private Bid	Sole Manager Sole Manager Co-Manager Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Sole Manager	Aa3 Baa1 Aa2;Aa2 Aa3 Aa2;Aa2:Aa2 Aa2 Aaa Aa1 Aa1 Aa2 NR	A+ BBB+ AA-AA- AA- AA- AA- AA- AA+ NR AA+ AA+ NR	NR AA;AA NR AA+;AA+;AA+ NR NR NR NR AA+	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing Water & Sewer Facilities Multi Family Housing General Acute Care Hospital	3.1 2.1 5.1
3/5/2020 3/5/2020 3/10/2020 3/110/2020 3/11/2020 3/11/2020 3/11/2020 3/12/2020 3/24/2020 4/7/2020	Bolse State University Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry Lillinois Finance Authority NYC Housing Dev Corp Colorado Hsg & Fin Auth (CHFA) NYC Municipal Water Fin Auth NYC Housing Dev Corp Wisconsin Hith & Ed Fac Auth (WHEFA) California Health Facs Fin Auth	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Milli-Family Housing Rev Bonds 2020 Series A-2 With Surr Oys 2nd Gen Res Rev Bond Series E-2 Multi-Family Housing Rev Bonds 2020 Series A-2 Revenue Bonds Series 2020 Revenue Bonds Series 2020 Revenue Bonds Series 2020 Revenue Bonds Series 2020 Revenue Bonds 2020 Series A	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid 399.32 Negotiated Bid 22.04 Negotiated Bid 22.50 Private Bid 170.12 Negotiated Bid	Scie Manager Scie Manager Co-Manager Scie Manager Co-Manager Co-Manager Co-Manager Co-Manager Leed Manager Co-Manager Scie Manager Co-Manager Co-Manager	Aa3 Baa1 Aa2;Aa2 Aa3 Aa2;Aa2:Aa2 Aaa Aa1 Aa1 Aa2 NR Aa3	A+ BBB+ AA-AA- AA- AA-AA-AA- AA+ AA+ AA+ AA+ A	NR AA,AA NR AA+;AA+;AA+ NR NR NR NR AA+ NR NR AA+	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing Water & Sewer Facilities Multi Family Housing General Acute Care Hospital General Acute Care Hospital	3.9 2.6 5.0
3/5/2020 3/5/2020 3/10/2020 3/10/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020 3/26/2020 4/7/2020 4/14/2020	Boise State University Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry Illinois Finance Authority NYC Housing Dev Corp Colorado Hsg & Fin Auth (CHFA) NYC Municipal Water Fin Auth NYC Housing Dev Corp Wisconsin Hith & Ed Fac Auth (WHEFA) California Health Facs Fin Auth TPEA) Toxas Public Finance Auth (TPFA) Kansas City-Missouri Massachusetts Dev	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020 Series A-2 Homeownership Class I Bonds Series 2020 AN WitaSwir Sys 2nd Gen Res Rev Bond Series E-2 Series A-1-A Revenue Bonds Series 2020 Revenue Bonds Series 2020 Revenue Bonds Series 2020 Revenue Bonds Series 2020 Revenue Bonds 2020 Series A General Obligation Bonds Series 2020	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid 399.32 Negotiated Bid 22.04 Negotiated Bid 22.50 Private Bid 170.12 Negotiated Bid 472.47 Negotiated Bid	Scie Manager Scie Manager Co-Manager Scie Manager Co-Manager Co-Manager Co-Manager Co-Manager Leed Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa3 Baa1 Aa2;Aa2 Aa3 Aa2;Aa2;Aa2 Aa2 Aaa Aa1 Aa2 NR Aa3 Aaa;Aaa	A+ BBB+ AA-AA- AA- AA-AA-AA- AA+ AA+ AA+ AA+ A	NR AA,AA NR AA+;AA+;AA+ NR NR NR NR AA+ NR NR NR NR NR NR NR NR NR AA NR;NR	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing Water & Sewer Facilities Multi Family Housing General Acute Care Hospital General Acute Care Hospital Single Specialty Hospital	3.3 2.6 5.0
3/5/2020 3/5/2020 3/10/2020 3/10/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020 3/12/2020 3/26/2020 4/7/2020 4/14/2020	Bolse State University Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry Lillinois Finance Authority NYC Housing Dev Corp Colorado Hsg & Fin Auth (CHFA) NYC Municipal Water Fin Auth NYC Housing Dev Corp Wisconsin Hith & Ed Fac Auth (NHFEA) California Health Facs Fin Auth Texas Public Finance Auth (TPFA) Kansas City-Missouri Massachusetts Dev Finance Agry Finance Agry	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020 Series A-2 Homeownership Class I Bonds Series 2020 AA With-Family Housing Rev Bonds 2020 Series A-1 An Revenue Bonds Series 2020 Revenue Bonds Series 2020 Revenue Bonds 2020 Series A General Obligation Bonds Series 2020 General Obligation Bonds Series 2020 A Revenue Bonds Series 2020 A Revenue Bonds Series 2020 A	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid 399.32 Negotiated Bid 22.04 Negotiated Bid 22.50 Private Bid 170.12 Negotiated Bid 472.47 Negotiated Bid 43.36 Negotiated Bid 346.68 Negotiated Bid	Scie Manager Scie Manager Co-Manager Scie Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa3 Baa1 Aa2;Aa2 Aa3 Aa2;Aa2;Aa2 Aa2 Aaa Aa1 Aa2 NR Aa3 Aaa;Aaa Aaa;Aaa Aa2 Aaa	A+ BBB+ AA-AA- AA- AA-AA-AA- AA+ NR AA+ AA+ AA+ AA+ AA- AA- AA- AAA-AAA AA	NR AA,AA NR AA+;AA+;AA+ NR NR AA+ NR NR AA+ NR NR NR NR NR NR AA NR;NR	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing Water & Sewer Facilities Multi Family Housing General Acute Care Hospital General Acute Care Hospital Single Specialty Hospital General Purpose/ Public Imp Higher Education	3.1 2.1 5.1
3/5/2020 3/5/2020 3/10/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020 3/12/2020 4/7/2020 4/14/2020 4/14/2020	Boise State University Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry Illinois Finance Authority NYC Housing Dev Corp Colorado Hag & Fin Auth (CHFA) NYC Municipal Water Fin Auth NYC Housing Dev Corp Wisconsin Hith & Ed Fac Auth (NYHEFA) California Health Facs Fin Auth Texas Public Finance Auth (TPFA) Kansas City-Missouri Massachusetts Dev Finance Agry Colorado Hag & Fin Auth (CHFA)	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020 Series A-2 Homeownership Class I Bonds Series 2020 AA WIRSwr Sys 2nd Gen Res Rev Bond Series E3 Revenue Bonds Series 2020 Revenue Bonds 2020 Series A-1-A General Obligation Bonds Series 2020 General Obligation Bonds Series 2020 A Revenue Bonds Series 2020 A Homeownership Class I Bonds Series 2020 B	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid 399.32 Negotiated Bid 22.04 Negotiated Bid 22.05 Private Bid 170.12 Negotiated Bid 472.47 Negotiated Bid 43.36 Negotiated Bid 43.68 Negotiated Bid 45.40 Negotiated Bid	Sole Manager Sole Manager Co-Manager Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa3 Baa1 Aa2;Aa2 Aa3 Aa2;Aa2/Aa2 Aa2 Aaa Aa1 Aa2 NR Aa3 Aaa;Aaa Aa3 Aaa;Aaa Aa2 Aaa Aaa	A+ BBB+ AA-AA- AA- AA- AA- AA- AA+ AA+ AA+ AA+	NR AA,AA NR AA+;AA+;AA+ NR NR AA+ NR NR AA+ NR	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing Water & Sewer Facilities Multi Family Housing General Acute Care Hospital General Acute Care Hospital General Purpose/ Public Imp Higher Education Single Family Housing	3.6 2.6 5.0
3/5/2020 3/5/2020 3/10/2020 3/10/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020 3/11/2020 4/12/2020 4/14/2020 4/14/2020 4/15/2020 4/16/2020	Boise State University Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry California Massachusetts Dev Finance Agry Illinois Finance Authority NYC Housing Dev Corp Colorado Hag & Fin Auth (CHFA) NYC Municipal Water Fin Auth NYC Housing Dev Corp Wisconsin Hith & Ed Fac Auth (NYHEFA) California Health Facs Fin Auth Texas Public Finance Auth (TPFA) Kansas City-Missouri Massachusetts Dev Finance Agry Colorado Hag & Fin Auth (CHFA)	General Revenue Ref Bonds Series 2020 A General Rev Project & Ref Bonds Series 2020 B Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series M (2020) Various Purp GO & Ref Bonds Series 1 & 2 Revenue Bonds Series U 2020 Revenue Bonds Series 2020 A Multi-Family Housing Rev Bonds 2020 Series A-2 Homeownership Class I Bonds Series 2020 AA Wirt Swir Sp. 2nd Gen Res Rev Bond Series EV Wirt Swir Sp. 2nd Gen Res Rev Bond Series B-1-4 Revenue Bonds Series 2020 Revenue Bonds Series 2020 General Obligation Bonds Series 2020 General Obligation Bonds Series 2020 General Obligation Bonds Series 2020 Revenue Bonds Series 2020 A Revenue Bonds Series 2020 A	44.55 Negotiated Bid 77.26 Negotiated Bid 2.095.65 Negotiated Bid 148.82 Negotiated Bid 164.56 Negotiated Bid 52.74 Negotiated Bid 55.00 Negotiated Bid 399.32 Negotiated Bid 22.04 Negotiated Bid 22.50 Private Bid 170.12 Negotiated Bid 472.47 Negotiated Bid 43.36 Negotiated Bid 346.68 Negotiated Bid	Scie Manager Scie Manager Co-Manager Scie Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa3 Baa1 Aa2;Aa2 Aa3 Aa2;Aa2;Aa2 Aa2 Aaa Aa1 Aa2 NR Aa3 Aaa;Aaa Aaa;Aaa Aa2 Aaa	A+ BBB+ AA-AA- AA- AA- AA- AA- AA+ AA+ AA+ AA+	NR AA,AA NR AA+;AA+;AA+ NR NR AA+ NR NR AA+ NR	Higher Education General Purpose/ Public Imp Higher Education Higher Education Multi Family Housing Single Family Housing Water & Sewer Facilities Multi Family Housing General Acute Care Hospital General Acute Care Hospital Single Specialty Hospital General Purpose/ Public Imp Higher Education	2.6 3.9 2.6 5.0

(CHFA)	Multi-Family Housing Rev Bonds 2020	29.00 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
4/16/2020 Maine State Housing	Series A-2 Mortgage Purchase Bonds 2020 Series C	38.96 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
Authority 4/21/2020 Chelan Co Public Utility Dt	Consolidated Sys Rev & Ref Bonds Series	120.60 Negotiated Bid	Sole Manager	NR;NR	AA+;AA+	AA+;AA+	Combined Utilities	
#1 4/21/2020 Chelan Co Public Utility Dt	2020 A & B Consolidated Sys Rev Ref Bonds Series	13.23 Negotiated Bid	Sole Manager	NR	AA+	AA+	Combined Utilities	
#1	2020 C Revenue Bonds Series 2020 B	190.96 Negotiated Bid	Lead Manager	A2	A	A	General Acute Care Hospital	
Facs Au 4/21/2020 Pennsylvania Econ Dev Fin	Revenue Bonds Series 2020 A	258.63 Negotiated Bid	Co-Manager	A2;A2;A2;A2	A;A;A;A	A;A;A;A	General Medical	5
Auth 4/22/2020 Riverside Co-California	Pension Obligation Bonds Series 2020	720.00 Negotiated Bid	Co-Manager	A2;A2	AA;AA	NR;NR	General Purpose/ Public Imp	
4/22/2020 Wisconsin	Environment Imp Fund Rev Bonds 2020	80.00 Competitive Bid	Sole Manager	NR	AAA	AAA	General Purpose/ Public Imp	
	Series A General Obligation Bonds 2020 Series E-2	11.38 Negotiated Bid	Co-Manager	NR	AA-	AA	Higher Education	
Dt		103.63 Negotiated Bid	Co-Manager	NR;NR			Higher Education	
Dt	& General Obligation Bonds 2020 Series E-1				AA-;AA-	AA;AA		
Authority	Housing Revenue Bonds 2020 Series 1	95.39 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Multi Family Housing	
4/27/2020 Howard Co-Maryland	Cons Pub Imp & Metro Dt &Ref Bond 2020 Series C & D	87.11 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
4/27/2020 Howard Co-Maryland	Cons Pub Imp & Metro Dt Bonds 2020 Series A & B	168.36 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
4/28/2020 Pennsylvania State University	General Obligation Notes Series C of 2020	1,061.40 Private Bid	Sole Manager;Remarketing	NR 3	NR	NR	Higher Education	
4/28/2020 Sacramento MUD (SMUD)	Electric Revenue Bonds 2020 Series H	374.78 Negotiated Bid	Agent Co-Manager	NR;NR;NR	AA;AA;AA	AA;AA;AA	Public Power	1
4/28/2020 Sacramento MUD (SMUD)	Electric Revenue Bonds 2020 Series H	25.22 Negotiated Bid	Co-Manager	NR	AA	AA	Public Power	C
	Single Family Mortgage Bonds 2020 Series	139.15 Negotiated Bid	Co-Manager	NR	AAA	NR	Single Family Housing	
Authority 5/1/2020 District of Columbia	A General Obligation Notes	300.00 Negotiated Bid	Sole Manager;Credit	NR	NR	NR	General Purpose/ Public Imp	
5/5/2020 Pennsylvania State	Revenue Bonds Series D of 2020	1,065.17 Negotiated Bid	Enhancer Lead Manager	Aa1;Aa1;Aa1	AA;AA;AA	NR;NR;NR	Higher Education	2
University 5/5/2020 Pennsylvania State	Revenue Bonds Series F of 2020	61.89 Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	
University 5/12/2020 Lower Colorado River	Transmission Contract Ref Bonds Series						Public Power	
Authority (LCRA)	2020	261.53 Negotiated Bid	Co-Manager	NR;NR;NR	A;A;A	A+;A+;A+		1
5/13/2020 Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 215	42.15 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
Auth	Future Tax Seccured Subor Bonds Subseries C-1	340.00 Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
Auth	Future Tax Seccured Subor Bonds Subseries C-1	510.00 Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
5/18/2020 Texas Water Development Board	State Revolving Fund Rev Bonds New Series 2020	352.59 Negotiated Bid	Co-Manager	NR	AAA	AAA	Water & Sewer Facilities	
5/20/2020 Georgia Priv College & Univ Auth	Revenue Bonds Series 2020 B	486.47 Negotiated Bid	Lead Manager	Aa2	AA	NR	Higher Education	
5/21/2020 Tampa City-Florida	Revenue Refunding Bonds Series 2020 B	57.05 Negotiated Bid	Co-Manager	NR	A-	A-	Higher Education	
5/21/2020 Tampa City-Florida	Revenue & Refunding Bonds Series 2020 A	81.32 Negotiated Bid	Co-Manager	NR	A-	Α-	Higher Education	
5/27/2020 Peralta Community College Dt		19.55 Negotiated Bid	Co-Manager	NR	AA-	AA	Higher Education	
5/28/2020 Connecticut	General Obligation Bonds 2020 Series A-3	49.47 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
5/28/2020 Connecticut	General Obligation Bonds 2020 Series A-1	198.04 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
5/28/2020 Connecticut	General Obligation Bonds 2020 Series A-2	252.50 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
5/28/2020 NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2020 Ser A-1-B & C	159.46 Negotiated Bid	Co-Manager	Aa2;Aa2	AA+;AA+	NR;NR	Multi Family Housing	
5/28/2020 NYC Housing Dev Corp	Multi-Family Housing Rev Bonds Series A-3	99.37 Negotiated Bid	Co-Manager	Aa2	AA	NR	Multi Family Housing	
5/28/2020 Pennsylvania Housing Fin	Single Family Mortagage Rev Bonds Series	117.97 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2	AA+;AA+;AA+	NR;NR;NR;NR	Single Family Housing	
Agcy (PHFA) 5/28/2020 Guam Waterworks	2020-132 A Water and Wstwtr Sys Rev Bonds Series	134.00 Negotiated Bid	Co-Manager	Baa2	A-	NR	Water & Sewer Facilities	
Authority 6/3/2020 Massachusetts Bay	2020 A Subordinated Sales Tax Bonds Subseries B-	174.84 Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
Transport Auth 6/3/2020 Massachusetts Bay	Subordinated Sales Tax Bonds Subseries B-	164.25 Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
Transport Auth 6/3/2020 Massachusetts Bay	1 Subordinated Sales Tax Bonds Subseries B-	45.39 Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
Transport Auth 6/3/2020 Washington Metro Area	2 Dedicated Revenue Bonds Series 2020 A	545.00 Negotiated Bid	Lead Manager	NR;NR;NR	AA;AA;AA	AA;AA;AA	Mass Transportation	
Transit Au	Mortgage Purchase Bonds 2020 Series D			Aa1		NR		
6/3/2020 Maine State Housing Authority	Mortgage Purchase Bonds 2020 Series E	35.00 Negotiated Bid	Lead Manager		AA+	NR NR	Single Family Housing	
6/3/2020 Maine State Housing Authority		40.00 Negotiated Bid	Lead Manager	Aa1	AA+		Single Family Housing	
6/3/2020 Rhode Island Hsg & Mtg Fin Corp	Homeownership Opportunity Bonds Series 72-A		Co-Manager	Aa1	AA+	NR		
6/3/2020 NYC Municipal Water Fin Auth		58.38 Negotiated Bid					Single Family Housing	
	Wtr & Swr Sys 2nd Gen Res Bonds Series FF & Sub GG-1	608.01 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	AA+;AA+	Water & Sewer Facilities	
						AA+;AA+ AA+		
6/3/2020 NYC Municipal Water Fin Auth 6/3/2020 NYC Municipal Water Fin	FF & Sub GG-1 Wtr & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Wtr & Swr Sys 2nd Gen Res Bonds Fiscal	608.01 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+		Water & Sewer Facilities	
6/3/2020 NYC Municipal Water Fin Auth 6/3/2020 NYC Municipal Water Fin Auth 6/4/2020 Michigan St Hsg Dev Au	FF & Sub GG-1 Wtr & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Wtr & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020	608.01 Negotiated Bid 35.00 Negotiated Bid	Co-Manager Co-Manager	Aa1;Aa1 Aa1	AA+;AA+ AA+	AA+	Water & Sewer Facilities Water & Sewer Facilities	
6/3/2020 NYC Municipal Water Fin Auth 6/3/2020 NYC Municipal Water Fin Auth 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/4/2020 Michigan St Hsg Dev Au	FF & Sub GG-1 Wit & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Witr & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager	Aa1;Aa1 Aa1	AA+;AA+ AA+ AA+	AA+	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities	
6/3/2020 NYC Municipal Water Fin Auth 6/3/2020 NYC Municipal Water Fin Auth 6/4/2020 Michigan St Hsg Dev Au (MSHDA)	FF & Sub GG-1 Wit & Sur Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Wit & Sur Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead	Aa1;Aa1 Aa1 Aa2 Aa2 Aa1	AA+;AA+ AA+ AA+	AA+ AA+ NR	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing	
6/3/2020 NYC Municipal Water Fin Auth 6/3/2020 NYC Municipal Water Fin Auth 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/9/2020 Massachusetts	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Refunding Bonds 2020 Series A	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager;Remarketing Agent	Aa1;Aa1 Aa1 Aa2 Aa2 Aa1	AA+,AA+ AA+ AA+ AA+ AA+ AA+	AA+ NR NR AA+	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing	
6/3/2020 NYC Municipal Water Fin Auth 6/3/2020 NYC Municipal Water Fin Auth 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/9/2020 Prince Georges Co- Maryland	FF & Sub GG-1 With & Swr yes 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr yes 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Retrudring Bonds 2020 Series A GO Consolidated Pub Imp Ret Bonds Series 2020 C	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager,Remarketing Agent Co-Manager	Aa1;Aa1 Aa1 Aa2 Aa2 Aa2 Aa1	AA+,AA+ AA+ AA+ AA+ AA+ AAA+ AAA	AA+ NR NR AA+	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp	
6/3/220 NYC Municipal Water Fin Auth 6/3/2020 NYC Municipal Water Fin Auth 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Prince Georges Co- Maryland	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 A	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager,Remarketin,Agent Co-Manager Co-Manager	Aa1:Aa1 Aa1 Aa1 Aa2 Aa2 Aa2 Aa1 3 Aaa Aaa	AA+,AA+ AA+ AA+ AA+ AA+ AAA AAA	AA+ NR NR AA+ AAA	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp	
6/3/2020 NYC Municipal Water Fin Auth 6/3/2020 NYC Municipal Water Fin Auth 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/9/2020 Massachusetts 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Prince Georges Co- Maryland	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager, Remarketin, Agent Co-Manager Co-Manager Co-Manager	Aa1;Aa1 Aa1 Aa1 Aa2 Aa2 Aa2 Aa1 Aaa Aaa Aaa	AA+AA+ AA+ AA+ AA+ AA+ AAA AAA AAA AAA	AA+ AA+ NR NR AA+ AAA AAA	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp	
6/3/2020 NYC Municipal Water Fin Auth 6/3/2020 NYC Municipal Water Fin Auth 6/3/2020 NYC Municipal Water Fin Auth 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/9/2020 Prince Georges Co-Maryland 6/9/2020 Regents of the University of Michigan St Michigan 6/9/2020 Regents of the University of Michigan 6/9/2020 Regent	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Retrudring Bonds 2020 Series A GO Consolidated Pub Imp Ret Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 100.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager, Remarketin, Agent Co-Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1 Aa1 Aa1 Aa2 Aa2 Aa2 Aa1 Aaa Aaa Aaa	AA+AA+ AA+ AA+ AA+ AA+ AAA AAA AAA AAA	AA+ AA+ NR NR AA+ AAA AAA AAA NR	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education	
6/3/220 NYC Municipal Water Fin Author Scarce New York Municipal Water Fin Author Scarce Minister State Minister Minister State Minister M	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B General Revenue Bonds Series 2020 B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 100.00 Negotiated Bid 35.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager, Remarketin, Agent Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1 Aa1 Aa1 Aa2 Aa2 Aa2 Aa1 Aaa Aaa Aaa Aaa	AA+AA+ AA+ AA+ AA+ AA+ AAA AAA AAA AAA	AA+ AA+ NR NR AA+ AAA AAA AAA NR NR	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education	
6/3/2202 NYC Municipal Water Fin Auth Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/4/220 Michigan St Hsg Dev Au (MSHDA) 6/4/220 Michigan St Hsg Dev Au (MSHDA) 6/9/2202 Massachusetts 6/9/2202 Prince Georges Co-Maryland 6/9/2202 Prince Georges Co-Maryland 6/9/2202 Prince Georges Co-Maryland 6/9/2202 Prince Georges Co-Maryland 6/9/2202 Regents of the University of Michigan 6/9/2202 Regents of the University of	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 100.00 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager, Remarketin, Agent Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1 Aa1 Aa1 Aa2 Aa2 Aa2 Aa1 Aaa Aaa Aaa	AA+AA+ AA+ AA+ AA+ AA+ AAA AAA AAA AAA	AA+ AA+ NR NR AA+ AAA AAA AAA NR NR NR	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education	
6/3/2202 NYC Municipal Water Fin Auth Auth Grazola NYC Municipal Water Fin Auth Grazola NYC Municipal Water Fin Auth Grazola Michigan St Hsg Dev Au (MSHDA) 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/9/2020 Massachusetts 6/9/2020 Prince Georges Co-Maryland 6/9/2020 Repents of the University of Michigan 6/9/2020 Repents of the University of Michigan 6/9/2020 Repents of the University of Michigan 6/9/2020 Repents of the University	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B General Revenue Bonds Series 2020 B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 100.00 Negotiated Bid 35.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager, Remarketin, Agent Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1 Aa1 Aa1 Aa2 Aa2 Aa2 Aa1 Aaa Aaa Aaa Aaa	AA+AA+ AA+ AA+ AA+ AA+ AAA AAA AAA AAA	AA+ AA+ NR NR AA+ AAA AAA AAA NR NR	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education	
6/3/2202 NYC Municipal Water Fin Auth Auth Grazola NYC Municipal Water Fin Auth Grazola NYC Municipal Water Fin Auth Grazola Michigan St Hsg Dev Au (MSHDA) 6/4/2020 Michigan St Hsg Dev Au (MSHDA) 6/9/2020 Prince Georges Co-Maryland 6/9/2020 Regents of the University of Michigan 6/9/2020 Regents of the University	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 100.00 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager, Remarketin, Agent Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1 Aa1 Aa1 Aa2 Aa2 Aa2 Aa1 Aaa Aaa Aaa Aaa Aaa Aaa	AA+AA+ AA+ AA+ AA+ AA+ AAA AAA AAA AAA	AA+ AA+ NR NR AA+ AAA AAA AAA NR NR NR	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education	
6/3/2202 NYC Municipal Water Fin Auth Auth 6/3/2203 NYC Municipal Water Fin Auth 6/3/2203 NYC Municipal Water Fin Auth 6/3/2203 Michigan St Hsg Dev Au (MSHDA) 6/3/2203 Michigan St Hsg Dev Au (MSHDA) 6/3/2203 Michigan St Hsg Dev Au (MSHDA) 6/3/2203 Prince Georges Co- Maryland 6/3/2203 Prince Georges Co- Maryland 6/3/2203 Prince Georges Co- Maryland 6/3/2203 Regents of the University of Michigan	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 100.00 Negotiated Bid 35.00 Negotiated Bid 35.00 Negotiated Bid 35.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager, Remarketin, Agent Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa1;Aa1 Aa1 Aa1 Aa2 Aa2 Aa2 Aa1 Aaa Aaa Aaa Aaa Aaa Aaa	AA+AA+ AA+ AA+ AA+ AAA AAA AAA AAA AAA	AA+ AA+ NR NR AA+ AAA AAA AAA ANR NR NR NR	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education Higher Education	
6/3/2202 NYC Municipal Water Fin Auth Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 Michigan St Hsg Dev Au (MSHDA) 6/4/2202 Michigan St Hsg Dev Au (MSHDA) 6/4/2202 Michigan St Hsg Dev Au (MSHDA) 6/9/2202 Prince Georges Co- Maryland 6/9/2202 Prepents of the University of Michigan 6/9/2202 Regents of the University of Michigan 6/1/1/2202 Utility State Board of	FF & Sub GG-1 With & Swr yes 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr yes 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Retrudring Bonds 2020 Series A GO Consolidated Pub Imp Ret Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 127.01 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 100.00 Negotiated Bid 35.00 Negotiated Bid 35.00 Negotiated Bid 35.00 Negotiated Bid 35.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager, Remarketin, Agent Co-Manager	Aat;Aat Aat Aat Aat Aaz Aaz Aaa Aaa Aaa Aaa Aaa Aaa Aaa Aaa	AA+AA+ AA+ AA+ AA+ AA AAA AAA AAA AAA A	AA+ AA+ NR NR AA+ AAA AAA AAA AAA NR NR NR NR	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education Higher Education Higher Education	
6/3/2202 NYC Municipal Water Fin Auth G/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 Michigan St Hsg Dev Au (MSHDA) 6/3/2202 Michigan St Hsg Dev Au (MSHDA) 6/3/2202 Michigan St Hsg Dev Au (MSHDA) 6/3/2202 Prince Georges Co- Maryland 6/3/2202 Regents of the University of Michigan 6/1/2202 University of Michigan	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 100.00 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 350.03 Negotiated Bid 350.03 Negotiated Bid 350.00 Negotiated Bid 350.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Remarketing Agent Co-Manager	Aat;Aat Aat Aat Aat Aaz Aaz Aaa Aaa Aaa Aaa Aaa Aaa Aaa Aaa	AA+AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AA+ AA+ NR NR NR AA+ AAA AAA AAA ANR NR NR NR NR NR	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education	
6/3/2202 NYC Municipal Water Fin Auth 4/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 Michigan St Heg Dev Au (MSHDA) 6/4/202 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Regents of the University of Michigan	FF & Sub GG-1 With & Swr yes 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr yes 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 177.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 100.00 Negotiated Bid 35.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Remarketing Agent Co-Manager	Aat;Aat Aat Aat Aat Aaa Aaa Aaa Aaa Aaa Aaa	AA+AA+ AA+ AA+ AA+ AA+ AA AAA AAA AAA A	AA+ AA+ NR NR NR AA+ AAA AAA AAA ANR NR NR NR NR NR	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education	
6/3/2202 NYC Municipal Water Fin Auth 4/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 Michigan St Heg Dev Au (MSHDA) 6/4/202 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Massachusetts 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Regents of the University of Michigan 6/9/2020 Regents of the University 6/9/2020 Regents of the State Board of Regents 6/11/2020 Utah State Board of Regents 6/11/2020 Connecticut	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Sub GG-2 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series B GG-2 GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 B GG-2 GO Consolidated Pub Imp Bonds Series 2020 B GG-2 GO Consolidated Pub Imp Bonds Series 2020 B GG-2 GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B General Deligation Bonds 2020 Series C-1	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 127.18 Negotiated Bid 120.01 Negotiated Bid 120.01 Negotiated Bid 120.01 Negotiated Bid 120.01 Negotiated Bid 120.00 Negotiated Bid 100.00 Negotiated Bid 35.00 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead ManagerRemarketing Agent Co-Manager Lead Manager Lead Manager	Aat Aat Aaa Aaa Aaa Aaa Aaa Aaa Aaa Aaa Aaa	AA+AA+ AA+ AA+ AA+ AAA AAA AAA AAA AAA	AA+ AA+ NR NR NR AA+ AAA AAA AAA	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education	
6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Regents of the University of Michigan 6/9/2020 Ust State Board of Regents 6/11/2020 Ust State Board of Regents 6/11/2020 Connecticut	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Sub GG-2 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series B GG-2 GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 C GO Consolidated Pub Imp Bonds Series 2020 B GO Consolidated Pub Imp Bonds Series 2020 B GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B General Digigation Bonds 2020 Series C-1 General Obligation Bonds 2020 Series C-3	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 127.18 Negotiated Bid 120.01 Negotiated Bid 120.01 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 64.20 Negotiated Bid 35.00 Negotiated Bid 138.43 Negotiated Bid 138.43 Negotiated Bid 84.64 Negotiated Bid 84.64 Negotiated Bid 83.96 Negotiated Bid 83.96 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead ManagerRemarketing Agent Co-Manager Lead Manager Lead Manager Co-Manager	Aat-Aat Aat Aat Aat Aat Aat Aat Aat Aat Aat	AA+AA+ AA+ AA+ AAA AAA AAA AAA AAA AAA	AA+ AA+ NR NR NR AA+ AAA AAA AAA	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp	
6/3/2202 NYC Municipal Water Fin Auth 4/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Pregents of the University of Michigan 6/9/2020 Regents of the University 6/9/2020 University of Michigan 6/11/2020 Connecticut 6/11/2020 Connecticut 6/11/2020 Connecticut	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Sub GG-2 Sub GG-2 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series B GG-2 GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 A GG-2 GO Consolidated Pub Imp Bonds Series 2020 B GG-2 GO Consolidated Pub Imp Bonds Series 2020 B GG-2 GO Consolidated Pub Imp Bonds Series 2020 B GG-2 GG-2 GG-2 GG-2 GG-2 GG-2 GG-2 GG-	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 127.18 Negotiated Bid 127.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 35.00 Negotiated Bid 138.43 Negotiated Bid 138.43 Negotiated Bid 84.64 Negotiated Bid 84.64 Negotiated Bid 83.96 Negotiated Bid 16.58 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead ManagerRemarketing Agent Co-Manager	Aat-Aat Aat Aat Aat Aat Aat Aat Aat Aat Aat	AA+AA+ AA+ AA+ AAA AAA AAA AAA AAA AAA	AA+ AA+ NR NR NR AA+ AAA AAA AAA AAA NR NR NR NR NR NR NR NR NR A+ A+ A+	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education General Purpose/ Public Imp	
6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Pregents of the University of Michigan 6/9/2020 Regents of the University of Michigan 6/9/2020 Connecticut 6/1/2/2020 Connecticut 6/1/2/2020 Connecticut 6/1/2/2020 Connecticut 6/1/2/2020 Connecticut 6/1/2/2020 Connecticut 6/1/2/2020 Connecticut	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series B GG-2 GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B General Digigation Bonds 2020 Series C-1 General Obligation Bonds 2020 Series C-5 General Obligation Bonds 2020 Series C-5	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 127.05 Negotiated Bid 127.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 64.20 Negotiated Bid 35.00 Negotiated Bid 138.43 Negotiated Bid 138.43 Negotiated Bid 84.64 Negotiated Bid 84.64 Negotiated Bid 83.96 Negotiated Bid 65.02 Negotiated Bid 65.02 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead ManagerRemarketing Agent Co-Manager	Aat-Aat Aat Aat Aat Aat Aat Aat Aat Aat Aat	AA+AA+ AA+ AA+ AAA AAA AAA AAA AAA AAA	AA+ AA+ NR NR NR AA+ AAA AAA AAA AAA AAA NR NR NR NR NR NR NR A+ A+ A+ A+	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education	
6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 Michigan St Hsg Dev Au (MSHDA) 6/3/2020 Michigan St Hsg Dev Au (MSHDA) 6/3/2020 Prince Georges Co- Maryland 6/3/2020 Preperts of the University of Michigan 6/3/2020 Reperts of the University of Michigan 6/3/2020 Connecticut 6/1/2/2020 Connecticut	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series B GG-2 GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 B GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 S General Revenue Bonds Series 2020 S General Revenue Bonds Series 2020 S General Coligation Bonds 2020 Series C-1 General Obligation Bonds 2020 Series C-5 General Obligation Bonds 2020 Series C-5 General Obligation Bonds 2020 Series C-6	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 127.05 Negotiated Bid 127.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 64.20 Negotiated Bid 65.00 Negotiated Bid 65.00 Negotiated Bid 35.00 Negotiated Bid 138.43 Negotiated Bid 138.43 Negotiated Bid 84.64 Negotiated Bid 83.96 Negotiated Bid 116.36 Negotiated Bid 15.50 Negotiated Bid 56.02 Negotiated Bid 56.02 Negotiated Bid	Co-Manager	Aat	AA+AA+ AA+ AA+ AA+ AAA AAA AAA AAA AAA	AA+ AA+ NR NR NR AA+ AAA AAA AAA AAA AAA NR NR NR NR NR NR A+ A+ A+ A+ A+ A+	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education General Purpose/ Public Imp	
6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 NYC Municipal Water Fin Auth 6/3/2202 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Michigan St Heg Dev Au (MSHDA) 6/9/2020 Prince Georges Co- Maryland 6/9/2020 Pregents of the University of Michigan 6/9/2020 Regents of the University of Michigan 6/9/2020 Connecticut 6/1/2/2020 Connecticut 6/1/2/2020 Connecticut 6/1/2/2020 Connecticut 6/1/2/2020 Connecticut 6/1/2/2020 Connecticut 6/1/2/2020 Connecticut	FF & Sub GG-1 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 With & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2 Single-Family Mortgage Rev Bonds 2020 Series B Single-Family Mortgage Rev Bonds 2020 Series A GO Consolidated Pub Imp Ref Bonds Series 2020 A GO Refunding Bonds 2020 Series A GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 A GO Consolidated Pub Imp Bonds Series 2020 B General Revenue Bonds Series 2020 B General Diligation Bonds 2020 Series C-1 General Obligation Bonds 2020 Series C-5 General Obligation Bonds 2020 Series C-5	608.01 Negotiated Bid 35.00 Negotiated Bid 65.00 Negotiated Bid 100.00 Negotiated Bid 127.05 Negotiated Bid 127.05 Negotiated Bid 127.18 Negotiated Bid 120.01 Negotiated Bid 251.83 Negotiated Bid 64.20 Negotiated Bid 64.20 Negotiated Bid 35.00 Negotiated Bid 138.43 Negotiated Bid 138.43 Negotiated Bid 84.64 Negotiated Bid 84.64 Negotiated Bid 83.96 Negotiated Bid 65.02 Negotiated Bid 65.02 Negotiated Bid	Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead ManagerRemarketing Agent Co-Manager	Aat-Aat Aat Aat Aat Aat Aat Aat Aat Aat Aat	AA+AA+ AA+ AA+ AAA AAA AAA AAA AAA AAA	AA+ AA+ NR NR NR AA+ AAA AAA AAA AAA AAA NR NR NR NR NR NR NR A+ A+ A+ A+	Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Single Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education	

		Revenue Refunding Bonds Series 2020 A	395.74 Negotiated Bid	Co-Manager	Aa2	AA-	NR	Higher Education	
	Bldg Au Univ of North Carolina Bd	General Revenue Bonds Series 2020 A	82.34 Negotiated Bid	Co-Manager	Aa1	AA	NR	Higher Education	
	of Gov Univ of North Carolina Bd	General Revenue Bonds Series 2020 B	164.77 Negotiated Bid	Co-Manager	Aa1	AA	NR	Higher Education	
	of Gov	General Revenue Bonds Series 2020 B	19.68 Negotiated Bid	Co-Manager	Aa1	AA	NR	Higher Education	
	of Gov New York Transportation		360.40 Negotiated Bid	Co-Manager	NR	В-	BB-		12.10
	Development Corporation	Special Facility Revenue Bonds Series 2020						Airports	12.10
	Massachusetts Housing Fin Agcy	Housing Bonds 2020 Series A-1	94.71 Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
	Massachusetts Housing Fin Agcy	Housing Bonds 2020 Series A-2	11.55 Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
6/17/2020	Massachusetts Housing Fin Agcy	Housing Bonds 2020 Series A-3	27.00 Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
6/17/2020	Massachusetts Housing	Housing Bonds 2020 Series B	21.36 Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
	Fin Agcy Texas Transportation	Highway Imp GO Refunding Bonds Series	794.24 Negotiated Bid	Co-Manager	Aaa;Aaa	NR;NR	AAA;AAA	Toll Roads, Highways &	
	Commission Geisinger Authority	2020 Health System Revenue Bonds Series D of	39.08 Negotiated Bid	Lead Manager	A1	AA-	NR	Streets General Acute Care Hospital	
		2020	· · · · · · · · · · · · · · · · · · ·						
	Geisinger Authority	Health System Revenue Bonds Series B of 2020	139.56 Negotiated Bid	Lead Manager	A1	AA-	NR	General Acute Care Hospital	
6/18/2020	Geisinger Authority	Health System Revenue Bonds Series C of 2020	89.54 Negotiated Bid	Lead Manager	A1	AA-	NR	General Acute Care Hospital	
6/18/2020	Geisinger Authority	Health System Revenue Bonds Series A of 2020	480.05 Negotiated Bid	Lead Manager	A1	AA-	NR	General Acute Care Hospital	
	NYS Urban Development	State Personal Inc Tax Rev Bonds Series	492.01 Negotiated Bid	Co-Manager	Aa1	NR	AA+	General Purpose/ Public Imp	
	Corp NYS Urban Development	2020 B State Personal Inc Tax Rev Bonds Series	1,288.21 Negotiated Bid	Co-Manager	Aa1	NR	AA+	General Purpose/ Public Imp	
	Corp Connecticut Hlth & Ed	2020 B Revenue Bonds Series R	49.02 Negotiated Bid	Sole Manager	A2	A+	NR	Higher Education	
	Facs Auth (CHEFA)					NR			
	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Revenue Bonds 2020 Series B	433.08 Negotiated Bid	Lead Manager	Aa2		AA-	Public Power	
6/18/2020	Washington Health Care Facs Au	Revenue Bonds Series 2020	232.93 Negotiated Bid	Co-Manager	A2	NR	A+	Single Specialty Hospital	
6/19/2020	Miami University	General Receipts Rev & Ref Bonds Series 2020 A	128.47 Negotiated Bid	Lead Manager	Aa3	NR	AA	Higher Education	
	Massachusetts Dev	Revenue Bonds Series 2020 A	103.48 Negotiated Bid	Lead Manager	A1	NR	NR	Higher Education	
6/30/2020	Finance Agcy Corpus Christi City-Texas	Util Sys Jr Ln Rev Imp & Ref Bond Series	133.77 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Combined Utilities	
6/30/2020	Corpus Christi City-Texas	2020 A Util Sys Jr Ln Rev Imp Ref Bond Series	183.64 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Combined Utilities	
		2020 B	164.35 Negotiated Bid						
	California Statewide CDA (CSCDA)	Revenue Bonds Series 2020 A		Sole Manager	NR	A	A+	General Acute Care Hospital	
	California Statewide CDA (CSCDA)	Revenue Bonds Series 2020 B	5.91 Negotiated Bid	Sole Manager	NR	A	A+	General Acute Care Hospital	
6/30/2020	Massachusetts School Bldg Auth	Sr Dedicated Sales Tax Bonds 2020 Series	1,094.92 Negotiated Bid	Co-Manager	Aa2	AA+	AAA	Primary & Secondary Education	
7/8/2020	Colorado Hsg & Fin Auth	Single Family Mortgage Bonds 2020 Series	6.32 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
	(CHFA) Colorado Hsg & Fin Auth	D Single Family Mortgage Bonds 2020 Series	36.09 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
	(CHFA) Colorado Hsg & Fin Auth	E Single Family Mortgage Bonds 2020 Series	28.55 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
	(CHFA)	F-1							
7/8/2020	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds Series 2020 F-2	40.93 Negotiated Bid	Sole Manager;Remarketin	Aaa ng	AAA	NR	Single Family Housing	
	Jacksonville Electric	Water & Sewer System Rev Bonds 2020	104.00 Negotiated Bid	Agent Co-Manager	A2	AA+	AA	Water & Sewer Facilities	4.2
	Authority (JEA) Jacksonville Electric	Series A Water & Sewer Sys Sub Rev Bonds 2020	26.59 Negotiated Bid	Co-Manager	A2	AA	AA	Water & Sewer Facilities	4.1
	Authority (JEA) Jacksonville Electric	Series A Electric System & Sub Rev Bonds	221.67 Negotiated Bid	Co-Manager	A2;A2	A+;A+	AA;AA	Public Power	
	Authority (JEA)	2020&Series 3 2020 A							
	Washington	Various Purpose GO Bonds Series 2021 A	291.17 Competitive Bid	Sole Manager	Aaa	AA+	AA+	General Purpose/ Public Imp	
	Univ of Virginia Rector & Visitors	General Revenue Pledge Bonds Series 2020	600.00 Negotiated Bid	Lead Manager	Aaa	AAA	AAA	Higher Education	3.2
	NYS Dorm Authority	Revenue Bonds Series 2020 A	328.45 Negotiated Bid	Co-Manager	Aa3	NR	A+	Higher Education	
7/15/2020 7/15/2020	Texas Transportation	Higher Educational Fac Rev Bonds GO Mobility Fund Ref Bonds Series 2020	47.19 Negotiated Bid 1,270.69 Negotiated Bid	Lead Manager Lead Manager	A3 Aaa	NR NR	A AAA	Higher Education Mass Transportation	
	Commission NYS Urban Development	State Personal Inc Tax Rev Bonds Series	2,225.38 Negotiated Bid	Co-Manager	Aa1;Aa1	NR;NR	AA+;AA+	Economic Development	4.4
	Corp NYS Urban Development	2020 C	72.08 Negotiated Bid						
	Corp	State Personal Inc Tax Rev Bonds Series 2020 D		Co-Manager	Aa1	NR	AA+	Economic Development	3.2
	Monroe Co Industrial Dev Corp	Revenue Bonds Series 2020 A	362.14 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	NR;NR;NR	Higher Education	3.2
	Monroe Co Industrial Dev Corp	Revenue Bonds Series 2020 B	58.02 Negotiated Bid	Co-Manager	Aa3	AA-	NR	Higher Education	3.0
7/27/2020	Santa Clara Co (Los Altos)	TRANs 2020 Series	17.00 Negotiated Bid	Sole Manager	NR	NR	NR	Primary & Secondary	
7/28/2020	SD Colorado Springs City-	Utilities Sys Imp & Ref Rev Bonds Series	337.14 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA+;AA+;AA+	NR;NR;NR	Education Combined Utilities	
	Colorado Connecticut Housing & Fin	2020 A-C Housing Mortgage Fin Prog Bonds 2020 Ser	74.08 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA;AAA	NR;NR;NR;NR	Single Family Housing	3.8
	Auth (CHFA) Connecticut Housing & Fin	C Sub C-1 Housing Mortgage Fin Prog Bonds 2020 Ser	44 12 Negotiated Bid	Co-Manager	Aaa-Aaa	AAA-AAA	NR·NR	Single Family Housing	2.3
	Auth (CHFA)	C Sub C-2		CO-Ivialiagei	Add,Add	AAA,AAA	INIT, INIT	Single Family Housing	2.0
	Agency	Single Family Housing Rev Bonds 2020 Series E		Locality	1-0	**	ND	Olarda Farrit	
7/29/2020	New Jersey Hsg & Mtg Fin		266.09 Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
		Single Family Housing Rev Bonds 2020	266.09 Negotiated Bid 46.24 Negotiated Bid	Lead Manager Lead Manager	Aa2 Aa2	AA AA	NR NR	Single Family Housing Single Family Housing	
	Agency New Jersey Hsg & Mtg Fin	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020							
7/29/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr	Single Family Housing Rev Bonds 2020 Series F	46.24 Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
7/29/2020	Agency New Jersey Hsg & Mtg Fin Agency	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G	46.24 Negotiated Bid 55.37 Negotiated Bid	Lead Manager Lead Manager	Aa2 Aa2	AA AA	NR NR	Single Family Housing Single Family Housing	
7/29/2020 7/29/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager	Aa2 Aa2 Aa1	AA AA AAA	NR NR NR NR	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities	
7/29/2020 7/29/2020 7/30/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Tevas	Single Family Housing Rev Bonds 2020 Saries F Single Family Housing Rev Bonds 2020 Saries G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa2 Aa1 Aa1 A1;A1;A1	AA AAA AAA A;A;A	NR NR NR NR A+;A+;A+	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports	
7/29/2020 7/29/2020 7/30/2020 7/30/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid	Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager	Aa2 Aa2 Aa1	AA AA AAA	NR NR NR NR A+;A+;A+ A+;A+;A+	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas California California California Resources Texas California California Resources Resources California California Resources California California Resources California California Resources California California Resources Resour	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Refunding Bonds 2020 Series S	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1	AA AAA AAA AAA;A A;A;A A+	NR NR NR NR A+;A+;A+ A+;A+;A+	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Higher Education	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020	Agency New Jersey Hsg & Mig Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas Rutgers State University Ohio	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Refunding Bonds 2020 Series S Capital Facs Lease Approp Bonds Series 2020 A	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 56.30 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2	AA AAA AAA AAA AAA AAA AAA	NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/4/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas Rutgers State University Ohio Ohio	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C Gor Refunding Bonds 2020 Series S Capital Facs Lease Approp Bonds Series 2020 A Capital Facs Lease Approp Bonds Series 2020 A Capital Facs Lease Approp Bonds Series 2020 A	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 56.30 Negotiated Bid 58.96 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2 Aa2	AA AAA AAA AAA AAA AAA AAA AAA AAA	NR NR NR NR NR NR A+;A+;A+ A+;A+;A+ A+;A+;A+ NR AA	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/4/2020 8/5/2020	Agency New Jersey Hsg & Mig Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas Rutgers State University Ohio	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series B Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Ret Lunding Bonds 2020 Series S Capital Face Lease Approp Bonds Series Capital Face Lease Approp Bonds Series 2020 D Revenue Refunding Bonds 2020 Revenue Refunding Revenue Refunding Bonds 2020 Revenue Refunding Revenue Refunding Bonds 2020 Revenue Refunding Bonds 2020 Revenue Refunding Bonds 2020 Revenue Refunding Bonds 2020 Revenue Refunding Bonds 2020 Series 2020 C	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 56.30 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2	AA AAA AAA AAA AAA AAA AAA	NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mig Fin Agency Galifornia Dept of Wtr Resources Galifornia Dept of Wtr Resources Dallea & Fort Worth Cities- Dallea & Fort Worth Cities- Teasa Rutgers State University Ohio Ohio San Francisco City & Co Airport Comm San Francisco City & Co	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C Gor Refunding Bonds 2020 Series S Capital Facs Lease Approp Bonds Series 2020 A Capital Facs Lease Approp Bonds Series 2020 A Capital Facs Lease Approp Bonds Series 2020 A	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 56.30 Negotiated Bid 58.96 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2 Aa2	AA AAA AAA AAA AAA AAA AAA AAA AAA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mig Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texes Dallas & Fort Worth Cities- Texes Dallas & Fort Worth Cities- Rutgers State University Ohio San Francisco City & Co Airport Comm San Francisco City & Co Airport Comm	Single Family Housing Rev Bonds 2020 Saries F Single Family Housing Rev Bonds 2020 Saries G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Refunding Bonds 2020 Series S Capital Facs Lesse Approp Bonds Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 A Revenue Refunding Bonds 2nd Series 2020 A Revenue Refunding Bonds 2nd Series 2020 A Revenue Refunding Bonds 2nd Series 2020 Revenue Refunding Bonds 2nd Series 2020 A Revenue Refunding Bonds 2nd Series 2020 Revenue Refunding Bonds 2nd Series 2020	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 56.30 Negotiated Bid 58.96 Negotiated Bid 130.18 Negotiated Bid	Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2 Aa2 A1	AA AAA AAA AAA AAA AAA AAA AAA AAA AA	NR NR NR NR NR A+:A+:A+ A+:A+:A+ A+:A+:A+ AA AA AA	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas T	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series CO Refunding Bonds 2020 Series S Capital Fass Lease Approp Bonds Series 2020 A Capital Fass Lease Approp Bonds Series 2020 Revenue Refunding Bonds 2020 Series Capital Fass Lease Approp Bonds Series 2020 A Revenue Refunding Bonds 2nd Series 2020 C Revenue Refunding Bonds 2nd Series 2020 Revenue Refunding Bonds 2nd Series 2020 A	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 58.30 Negotiated Bid 58.96 Negotiated Bid 130.18 Negotiated Bid	Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2 Aa2 A1	AA AAA AAA AAA AAA AAA AAA AAA AAA AA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas Rutgers State University Ohio San Francisco City & Co Airport Comm San Francisco City & Co Airport Comm San Francisco City & Co Airport Comm Can Elsand Power Authority Long Island Power Authority	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Retunding Bonds Series SC 2020 C GO Retunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C Revenue Refunding Bonds 2020 Series S Revenue Refunding Bonds 2020 Series 2020 C Revenue Refunding Bonds 2nd Series 2020 C Revenue Refunding Bonds 2nd Series 2020 R Revenue Refunding Bonds 2nd Series 2020 R Evenue Refunding Bonds 2nd Series 2020 E B Electric System Gen Rev Bonds Series 2020 E	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 58.96 Negotiated Bid 130.18 Negotiated Bid 109.52 Negotiated Bid 51.58 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2 Aa2 A1 A1	AA AAA AAA AAA AAA AAA AAA AAA AAA AAA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA A+ A+	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports Airports Airports Airports Airports Airports Public Power	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mig Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas Rutgers State University Ohio Chio San Francisco City & Co Airport Comm San Francisco City & Co Airport Comm San Francisco City & Co Airport Comm Can Elsand Power Authority Long Island Power Authority Long Island Power Authority Long Island Power Authority	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO RetUnding Bonds Series 2020 C GO RetUnding Bonds 2020 Series S Coppilal Faces Lease Approp Bonds Series 2020 C Revenue Refunding Bonds 2020 Series 2020 C Revenue Refunding Bonds 2nd Series 2020 C Revenue Refunding Bonds 2nd Series 2020 Revenue Refunding Bonds 2nd Series 2020 Electric System Gen Rev Bonds Series 2020 Electric System Gen Rev Bonds Series 2020 C	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 56.30 Negotiated Bid 58.96 Negotiated Bid 130.18 Negotiated Bid 109.52 Negotiated Bid 51.58 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2 Aa2 A1 A1 A1 A1	AA AAA AAA AAA AAA AAA AAA AAA AAA AAA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA AH AH NR	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports Airports Airports Public Power	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas Rutgers State University Ohio San Francisco City & Co Airport Comm San Francisco City & Co Airport Comm San Francisco City & Co Airport Comm Can Francisco City & Co Airport Comm Can Francisco City & Co Airport Comm Can Jerancisco City & Co Airport Comm Con Jelsiand Power Authority Long Island Power Authority	Single Family Housing Rev Bonds 2020 Saries F Single Family Housing Rev Bonds 2020 Saries G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GOR Retunding Bonds Series SC020 C GOR Retunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C Revenue Refunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C Revenue Refunding Bonds 2nd Series 2020 Revenue Refunding Bonds 2nd Series 2020 Revenue Refunding Bonds 2nd Series 2020 Electric System Gen Rev Bonds Series 2020 E	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 544.21 Negotiated Bid 556.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 58.96 Negotiated Bid 58.96 Negotiated Bid 130.18 Negotiated Bid 109.52 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 25.00 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2 Aa2 A1 A1 A1 A1 A1	AA AAA AAA AAA AAA AAA AAA AAA AAA AAA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA A+ A+ A+ A+ A+ AA	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports Airports Airports Airports Public Power Public Power Public Power	
7/29/2020 7/29/2020 7/30/2020 8/4/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Teoas Dallas & Fort Worth Cities- Teoas San Francisco City & Co Airport Comm Long Island Power Authority Long Island Power Long Island Power Long Island Power Long Island Power	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Refunding Bonds 2020 Series S Capital Facs Lease Approp Bonds Series 2020 C C Revenue Refunding Bonds 204 Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C L Revenue Refunding Bonds 2nd Series 2020 C Exerenue Refunding Bonds 2nd Series 2020 B Electric System Gen Rev Bonds Series 2020 C B Electric System Gen Rev Bonds Series 2020 C Exerenue Refunding Bonds 2nd Series 2020 B Electric System Gen Rev Bonds Series 2020 C Exerenue Refunding Bonds 2nd Series 2020 B Electric System Gen Rev Bonds Series	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 56.30 Negotiated Bid 58.96 Negotiated Bid 130.18 Negotiated Bid 109.52 Negotiated Bid 51.58 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2 Aa2 A1 A1 A1 A1	AA AAA AAA AAA AAA AAA AAA AAA AAA AAA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA AH AH NR	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports Airports Airports Public Power	
7/29/2020 7/29/2020 7/30/2020 8/3/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Teoas Teoas San Francisco City & Co Aipport Comm Long Island Power Authority Laksak Housing Finance	Single Family Housing Rev Bonds 2020 Saries F Single Family Housing Rev Bonds 2020 Saries G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GOR Retunding Bonds Series SC020 C GOR Retunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C Revenue Refunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C Revenue Refunding Bonds 2nd Series 2020 Revenue Refunding Bonds 2nd Series 2020 Revenue Refunding Bonds 2nd Series 2020 Electric System Gen Rev Bonds Series 2020 E	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 544.21 Negotiated Bid 556.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 58.96 Negotiated Bid 58.96 Negotiated Bid 130.18 Negotiated Bid 109.52 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 25.00 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa2 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2 Aa2 A1 A1 A1 A1 A1	AA AAA AAA AAA AAA AAA AAA AAA AAA AAA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA A+ A+ A+ A+ A+ AA	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports Airports Airports Airports Public Power Public Power Public Power	4.
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mig Fin Agency Agency California Dept of Wtr Resources California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas San Faranses Ohio San Francisco City & Co Airport Comm San Francisco City & Co Airport Comm Composition City & Co Airport Comm Long Island Power Authority Laska Housing Finance Corp Alaska Housing Finance Corp	Single Family Housing Rev Bonds 2020 Saries F Single Family Housing Rev Bonds 2020 Saries G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series BC Joint Revenue Refunding Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Refunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C Experies Series Series Series 2020 C Experies Refunding Bonds 2nd Series 2020 C Electric System Gen Rev Bonds Series 2020 Electric System Gen Rev Bonds Series 2020 E	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 58.96 Negotiated Bid 130.18 Negotiated Bid 109.52 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 22.37 Negotiated Bid 23.798 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa1 Aa1 Aa1 A1;A1;A1 A1;A1;A1 Aa3 Aa2 Aa2 A1 A1 A1 A1 A1 A2 A2 A2 A3	AA AAA AAA AAA AAA AAA AAA AAA AA AA AA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA A+ A+ A+ A+ AA AA AA AA	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports Airports Airports Public Power Public Power Public Power	
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mtg Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas T	Single Family Housing Rev Bonds 2020 Saries F Single Family Housing Rev Bonds 2020 Saries G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series BC Joint Revenue Refunding Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Refunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C Revenue Refunding Bonds 2nd Series 2020 C Revenue Refunding Bonds 2nd Series 2020 Revenue Refunding Bonds 2nd Series 2020 Electric System Gen Rev Bonds Series 2020 C General Mortgage Rev Bonds 2020 Series A II General Mortgage Rev Bonds 2020 Series A II	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 220.90 Negotiated Bid 68.90 Negotiated Bid 68.90 Negotiated Bid 130.18 Negotiated Bid 130.8 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 237.98 Negotiated Bid 237.98 Negotiated Bid 237.98 Negotiated Bid 237.98 Negotiated Bid 35.17 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa1 Aa1 Aa1 A1:A1:A1 A1:A1:A1 Aa3 Aa2 Aa2 A1 A1 A1 A1 A1 A1 A1 A1 A2 A2 A2 A1	AA AAA AAA AAA AA AA AA AA AA AA AA AA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA A+ A+ A+ A+ AR NR NR A A A NR:NR:NR:NR	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports Airports Public Power Public Power Public Power Public Power Single Family Housing Single Family Housing	5.
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mig Fin Agency California Dept of Wtr Resources Dallas & Fort Worth Cities- Tease Tease Rutgers State University Ohio Ohio San Francisco City & Co Airport Comm San Francisco City & Co Airport Comm San Francisco City & Co Airport Comm Cas Francisco City & Co Airport Comm Long Island Power Authority Long Island Power Authority Authority Alaska Housing Finance Corp Allaska Housing Finance Corp Maine State Housing Authority Mathority Mathori	Single Family Housing Rev Bonds 2020 Saries F Single Family Housing Rev Bonds 2020 Saries G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Refunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C B Revenue Refunding Bonds 2nd Series 2020 C B Revenue Refunding Bonds 2nd Series 2020 B B BETT System Gen Rev Bonds Series 2020 B B BETT System Gen Rev Bonds Series 2020 C BECTIC System Gen Rev Bonds Series 2020 C Bectric System Gen Rev Bonds Series 2020 C Better System Gen Rev Bonds Series 2020 C Better System Gen Rev Bonds Series 2020 G Better System Gen Rev Bonds Series 2020 G Better System Gen Rev Bonds Series 2020 G Better System Gen Rev Bonds Series 2020 A General Mortgage Rev Bonds 2020 Series B II Mortgage Purchse Bonds 2020 Series F	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 65.30 Negotiated Bid 65.96 Negotiated Bid 130.18 Negotiated Bid 130.18 Negotiated Bid 122.36 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 22.37.98 Negotiated Bid 237.98 Negotiated Bid 237.98 Negotiated Bid 135.17 Negotiated Bid 136.17 Negotiated Bid 136.18 Negotiated Bid 137.18 Negotiated Bid 137.18 Negotiated Bid	Lead Manager Lead Manager Co-Manager Lead Manager Co-Manager	Aa2 Aa1 Aa1 A1;A1;A1 A1;A1;A1 A3 Aa2 Aa2 A1 A1 A1 A1 A1 A1 A2 A2 A4	AA AAA AAA AAA AAA AAA AA AA A	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA AA A+ A+ A+ A+ NR NR NR NR A A NR;NR;NR;NR	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Airports Airports Airports Airports Airports Airports Public Power Public Power Public Power Public Power Single Family Housing Single Family Housing Single Family Housing	5.
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mig Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources California Dept of Wtr Resources Dept of Wtr Resources Dept of Wtr Resources Dept of Wtr Resources Rutgers State University Ohio Ohio San Francisco City & Co Airport Comm Long Island Power Authority Long Island Power Authority Long Island Power Authority Comp Authority Comp Authority Comp Allabea Housing Finance Comp Allabea Housing Finance Comp Maine State Housing Authority Clark Co Public Utility Dt #11 Clark Co Public Utility Dt #11	Single Family Housing Rev Bonds 2020 Saries F Single Family Housing Rev Bonds 2020 Saries G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Refunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C B Revenue Refunding Bonds 2nd Series 2020 B Bettic System Gen Rev Bonds Series 2020 B Bettic System Gen Rev Bonds Series 2020 C General Mortgage Rev Bonds 2020 Series B II Mortgage Purchse Bonds 2020 Series B II Mortgage Purchse Bonds 2020 Series F Generating System Rev Ref Bonds Series 2020	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 63.00 Negotiated Bid 130.18 Negotiated Bid 130.18 Negotiated Bid 130.52 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 23.798 Negotiated Bid 237.98 Negotiated Bid 237.98 Negotiated Bid 135.17 Negotiated Bid 14.00 Negotiated Bid 40.00 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager	Aa2 Aa1 Aa1 A1;A1;A1 A1;A1;A1 A3 Aa2 Aa2 A1 A2 A2 A2 A41;A41;A41 A41 A41 A41 A41 A41 A41 A41 A41 A41	AA AAA AAA AAA AAA AAA AAA AA AA AA AA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA A+ A+ A+ A+ NR NR NR NR NR A A AA A	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports Airports Airports Public Power Public Power Public Power Public Power Single Family Housing Single Family Housing Single Family Housing Combined Utilities	5.
7/29/2020 7/29/2020 7/30/2020 7/30/2020 8/4/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mig Fin Agency California Dept of Wtr Resources California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Teose Dallas & Fort Worth Cities- Teose Rugers State University Ohio Ohio San Francisco City & Co Airport Comm Long Island Power Authority Long Island Power Authority Long Island Power Authority Comp State Housing Finance Corp Authority Comp State Housing Finance Corp Authority Clark Co Public Utility Dt #11 Los Angeles Co Metro Transa Auth Transa Auth Los Angeles Co Metro Transa Auth Transa Auth	Single Family Housing Rev Bonds 2020 Series F Single Family Housing Rev Bonds 2020 Series G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GOR Refunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C GOR Refunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C B Revenue Refunding Bonds 2nd Series 2020 A Revenue Refunding Bonds 2nd Series 2020 B B Electric System Gen Rev Bonds Series 2020 B B Electric System Gen Rev Bonds Series 2020 C C C C C C C C C C C C C C C C C C C	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 68.30 Negotiated Bid 58.96 Negotiated Bid 130.18 Negotiated Bid 130.52 Negotiated Bid 130.52 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 23.798 Negotiated Bid 250.00 Negotiated Bid 250.00 Negotiated Bid 135.17 Negotiated Bid 140.00 Negotiated Bid 140.00 Negotiated Bid 140.00 Negotiated Bid 140.00 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Aa1 Aa1 A1;A1;A1 A3 Aa2 Aa2 A1	AA AAA AAA AAA AAA AAA AA AA A	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA A+ A+ A+ A+ NR NR NR NR A A AA A	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports Airports Airports Public Power Public Power Public Power Public Power Single Family Housing Single Family Housing Single Family Housing Combined Utilities Mass Transportation	5.0
7/29/2020 7/29/2020 7/30/2020 8/4/2020 8/4/2020 8/4/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020 8/5/2020	Agency New Jersey Hsg & Mig Fin Agency Agency California Dept of Wtr Resources California Dept of Wtr Resources California Dept of Wtr Resources Dallas & Fort Worth Cities- Texas Dallas & Fort Worth Cities- Texas Rutgers State University Ohio Ohio San Francisco City & Co Alippet Comin Com Island Power Authority Long Island Power Authority Long Island Power Authority Long Island Power Authority Alaska Housing Finance Corp Allaska Housing Finance Corp Clark Co Public Utility Dt #11 Los Angeles Co Metro Nan Agency Common	Single Family Housing Rev Bonds 2020 Saries F Single Family Housing Rev Bonds 2020 Saries G Water System Revenue Bonds Series BB Water System Revenue Bonds Series BC Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C Joint Revenue Refunding Bonds Series 2020 C GO Refunding Bonds 2020 Series S Capital Faces Lease Approp Bonds Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C C Revenue Refunding Bonds 2nd Series 2020 C B Revenue Refunding Bonds 2nd Series 2020 B Bettic System Gen Rev Bonds Series 2020 B Bettic System Gen Rev Bonds Series 2020 C General Mortgage Rev Bonds 2020 Series B II Mortgage Purchse Bonds 2020 Series B II Mortgage Purchse Bonds 2020 Series F Generating System Rev Ref Bonds Series 2020	46.24 Negotiated Bid 55.37 Negotiated Bid 544.21 Negotiated Bid 544.21 Negotiated Bid 515.15 Negotiated Bid 596.99 Negotiated Bid 596.99 Negotiated Bid 220.90 Negotiated Bid 63.00 Negotiated Bid 130.18 Negotiated Bid 130.18 Negotiated Bid 130.52 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 22.36 Negotiated Bid 23.798 Negotiated Bid 237.98 Negotiated Bid 237.98 Negotiated Bid 135.17 Negotiated Bid 14.00 Negotiated Bid 40.00 Negotiated Bid	Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager	Aa2 Aa1 Aa1 A1;A1;A1 A1;A1;A1 A3 Aa2 Aa2 A1 A2 A2 A2 A41;A41;A41 A41 A41 A41 A41 A41 A41 A41 A41 A41	AA AAA AAA AAA AAA AAA AAA AA AA AA AA	NR NR NR NR NR A+;A+;A+ A+;A+;A+ NR AA AA AA A+ A+ A+ A+ NR NR NR NR NR A A AA A	Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities Airports Airports Higher Education Parks, Zoos & Beaches Parks, Zoos & Beaches Airports Airports Airports Airports Public Power Public Power Public Power Public Power Single Family Housing Single Family Housing Single Family Housing Combined Utilities	4.7 5.0 7.5

8/12/2020 Ohio		Capital Facs Lease App Bonds Series 2020 B	57.00 Negotiated Bid	Sole Manager;Remarketing Agent	NR:NR:NR	AA	NR:NR:NR	General Purpose/ Public Imp Parks, Zoos & Beaches
		GO Alt Rev Source Ref Bonds Series 2020 A		Sole Manager		AA+;AA+;AA+		,
8/12/2020 El Pas		Water & Sewer Revenue Ref Bonds Series 2020 A	62.99 Negotiated Bid	Co-Manager	NR	AA+	AA+	Water & Sewer Facilities
8/13/2020 NYC H		Multi-Family Housing Rev Bonds 2020 Series D-2	25.00 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing
8/13/2020 NYC H		Multi-Family Housing Rev Bonds 2020 Series F-1	72.50 Negotiated Bid	Lead Manager	Aa2	AA+	NR	Multi Family Housing
8/13/2020 NYC H		Multi-Family Housing Rev Bonds 2020 Ser D-1 A & B	167.31 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;A a2;Aa2	AA+;AA+;AA+;AA+;AA+; AA+	NR;NR;NR;NR;NR;NR ;NR	Multi Family Housing
8/18/2020 Metrop Author		Transportation Revenue BANs Series 2020 B	418.50 Competitive Bid	Lead Manager	NR	NR	NR	Mass Transportation
	politan Transportation	Transportation Revenue BANs Series 2020 B	46.50 Competitive Bid	Lead Manager	NR	NR	NR	Mass Transportation
	ran Bay Area Rapid	General Obligation Bonds 2020 Series C-1	625.01 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa	AAA;AAA;AAA	NR;NR;NR	Mass Transportation
8/18/2020 San Fr	ran Bay Area Rapid	General Obligation Bonds 2020 Series C-2	75.00 Negotiated Bid	Co-Manager	NR	NR	NR	Mass Transportation
8/18/2020 Penns Comm	sylvania Turnpike	Turnpike Revenue Bonds Series A of 2020	100.50 Negotiated Bid	Sole Manager;Remarketing Agent;Credit	Aa2	NR	AA	Toll Roads, Highways & Streets
8/18/2020 El Pas	so City-Texas	Water & Sewer Rev Ref Bonds Series 2020	33.88 Negotiated Bid	Enhancer Co-Manager	NR	AA+	AA+	Water & Sewer Facilities
8/18/2020 Guam	Waterworks	Water & Wstwtr Sys Rev Ref Bonds Series	166.08 Negotiated Bid	Co-Manager	Baa2	A-	NR	Water & Sewer Facilities
Author 8/19/2020 Texas		2020 B TRANs Series 2020	7,200.00 Competitive Bid	Lead Manager	NR	NR	NR	General Purpose/ Public Imp
		Future Tax Secured Sub Bonds Series A&B	809.37 Negotiated Bid	Co-Manager	Aa1:Aa1	AAA:AAA	AAA:AAA	General Purpose/ Public Imp
Auth		SubserB-1	Ť					
Auth		Future Tax Secured Sub Bonds Ser A & B Subser B-1	539.58 Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp
Auth		Revenue Bonds Series 2020 A	102.39 Negotiated Bid	Sole Manager	NR	BBB	NR	General Acute Care Hospital
8/25/2020 St Joh Auth	nns Co Industrial Dev	Revenue Bonds Series 2020 B	66.43 Negotiated Bid	Sole Manager	NR	BBB	NR	General Acute Care Hospital
8/26/2020 Califor Truste		Systemwide Revenue Bonds Series 2020 D&E	994.59 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;A a2	AA-;AA-;AA-;AA-;AA-	NR;NR;NR;NR;NR;NR	Higher Education
8/26/2020 Califor	mia State Univ	Systemwide Revenue Bonds Series 2020 C	314.03 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2	AA-;AA-;AA-;AA-	NR;NR;NR;NR	Higher Education
		Revenue Bonds Series 2020	300.00 Negotiated Bid	Lead Manager	Baa2	NR	NR	General Acute Care Hospital
Corp		General Obligation Bonds Ser A&BSubser	440.19 Negotiated Bid	Co-Manager	Aa1;Aa1	AA;AA	AA;AA	General Purpose/ Public Imp
	•	A1&B1 General Obligation Bonds Ser A&BSubser	660.29 Negotiated Bid	Co-Manager	Aa1;Aa1	AA;AA	AA;AA	General Purpose/ Public Imp
		A1&B1 Sales Tax Receipts Rev Bonds Series 2020	367.90 Negotiated Bid	Co-Manager	NR NR	A+	NR	Mass Transportation
		Α						
Develo	ork Transportation opment Corporation	Special Facilities Rev Bonds Series 2020	1,511.02 Negotiated Bid	Co-Manager	Baa3;Baa3;Baa3;Baa3	NR;NR;NR;NR	BB+;BB+;BB+;BB+	Airports
9/1/2020 Ohio		Hospital Revenue Bonds Series 2020	85.50 Negotiated Bid	Lead Manager	Baa1	NR	A	General Acute Care Hospital
9/1/2020 Alaska Corp	a Housing Finance	Revenue Bonds 2020 Series A	96.67 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing
9/2/2020 Califor	mia	Various Purpose GO Bonds	212.50 Negotiated Bid	Co-Manager	Aa2	AA-	AA	General Purpose/ Public Imp
9/2/2020 Califor	mia	Various Purpose GO & Ref Bonds	2,418.45 Negotiated Bid	Co-Manager	Aa2;Aa2	AA-;AA-	AA;AA	General Purpose/ Public Imp
9/3/2020 Massa	achusetts Housing	Single Family Housing Rev Bonds Series	2.82 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing
Fin Ag	gcy	217 Single Family Housing Rev Bonds Series	64.36 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing
Fin Ag	gcy	218						
Fin Ag	gcy	Housing Bonds 2020 Series C-1	29.62 Negotiated Bid	Co-Manager	Aa2	AA	NR	Single Family Housing
9/3/2020 Massa Fin Ag		Housing Bonds 2020 Series C-2	28.02 Negotiated Bid	Co-Manager	Aa2	AA	NR	Single Family Housing
9/3/2020 Penns		Single Family Mortgage Rev Bonds Series 2020-133	212.14 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing
9/10/2020 Akron	Bath & Copley Jt	Hospital Facs Ref Rev Bonds Series 2020	138.99 Negotiated Bid	Sole Manager	Baa2	NR	A-	General Acute Care Hospital
9/10/2020 Michig	losp Dt gan State Building	Revenue & Refunding Bonds 2020 Series I	212.17 Negotiated Bid	Co-Manager	Aa2	NR	AA-	Higher Education
9/10/2020 Michig	gan State Building	Revenue Refunding Bonds 2020 Series II	556.86 Negotiated Bid	Co-Manager	Aa2	NR	AA-	Higher Education
Auth		Sales Tax Revenue Refunding Bonds Series	270.15 Competitive Bid	Sole Manager	Aa2	AA+	NR	Mass Transportation
Au (M	IARTA)	2020 B Future Tax Secure Sub Bonds Series 1 & 2	199.69 Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp
Auth		Future Tax Secure Sub Bonds Ser C Subser	900.00 Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp
9/16/2020 NTC 1 Auth 9/16/2020 Michig Auth		C-1 Revenue Refunding Bonds 2020 Series III	32.84 Negotiated Bid	Sole Manager;Remarketing	Aa2	NR NR	AA-	Government Buildings
9/16/2020 Rhode		Homeownership Opp Bonds Series 73-A	126.54 Negotiated Bid	Agent Co-Manager	Aa1	AA+	NR	Single Family Housing
Fin Co	orp	Homeownership Opp Bonds Series 73-T	15.57 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing
Fin Co	orp	Generation Sys Rev Ref Bonds Series 2020	19.73 Negotiated Bid	Co-Manager	Aa2	NR	AA-	Combined Utilities
Dt #1		A						
Dt #1		Electric Sytem Rev Ref Bonds Series 2020 A	49.09 Negotiated Bid	Co-Manager	Aa2	NR	AA-	Public Power
9/23/2020 Harris		Permanent Improvement Ref Bonds Series 2020 A	221.46 Negotiated Bid	Co-Manager	Aaa	NR	AAA	General Purpose/ Public Imp
9/23/2020 Colora (CHFA		Multi-Family Class I Bonds 2020 Series C-1	8.04 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing
	ado Hsg & Fin Auth	Multi-Family Class I Bonds 2020 Series C-2	4.60 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing
9/23/2020 Colora	ado Hsg & Fin Auth	Multi-Family Class I Bonds 2020 Series D1	29.74 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing
(CHFA	ado Hsg & Fin Auth A)	Multi-Family Project Bonds 2020 Series D-2	30.71 Negotiated Bid	Sole Manager;Remarketing Agent		AAA	NR	Multi Family Housing
9/23/2020 NYS H Mortga		Affordable Hsg Ref Rev Bonds 2020 Series H	161.57 Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing
		Revenue Bonds Series A	171.52 Negotiated Bid	Sole Manager	NR	A	NR	General Acute Care Hospital
	mia Health Facs Fin	Revenue Bonds Series B	107.44 Negotiated Bid	Sole Manager	NR	A	NR	General Acute Care Hospital
9/24/2020 NYC N	Municipal Water Fin	Wtr & Swr Sys 2nd Gen Res Bonds	650.00 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	AA+;AA+;AA+	Water & Sewer Facilities
	uri Hlth & Ed Facs	Subseries 2020AA-1&2 Halth Facilities Revenue Bonds Series 2020	378.57 Negotiated Bid	Co-Manager	A1;A1;A1;A1	A+;A+;A+;A+	NR;NR;NR;NR	General Acute Care Hospital
Author 9/30/2020 Philade	lelphia City-	Airport Revenue & Refunding Bonds Series	230.28 Negotiated Bid	Lead Manager	A2;A2	NR;NR	A;A	Airports
	sylvania	2020 A & B Airport Revenue & Refunding Bonds Series	158.94 Negotiated Bid	Lead Manager	A2	NR	A	Airports
Penns	sylvania	2020 A & C Lease Revenue & Ref Bonds 2020 Series D	86.32 Competitive Bid	Sole Manager	Aa3;Aa3;Aa3;Aa3	A+:A+:A+:A+	AA-;AA-;AA-	General Purpose/ Public Imp
Board		& E						
10/1/2020 Louisia		GO Refunding Bonds 2020 Series C-1 & 2	519.61 Negotiated Bid	Co-Manager	Aa3;Aa3	AA-;AA-	NR;NR	General Purpose/ Public Imp
10/1/2020 NYC H		Multi-Family Housing Rev Bonds 2020 Series H	64.04 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing
10/1/2020 Lower Author		Transmission Contract Ref Bonds Series 2020 A	145.49 Negotiated Bid	Co-Manager	NR	A	A+	Public Power
10/1/2020 Colora (CHFA	ado Hsg & Fin Auth	Single Family Mortgage Rev Bonds 2020 Series I-1	35.71 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing
10/1/2020 Colora	ado Hsg & Fin Auth	Single Family Mortgage Rev Bonds 2020	4.19 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing
(CHFA 10/1/2020 Colora	ado Hsg & Fin Auth	Series G Single Family Mortgage Rev Bonds 2020	47.42 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing
(CHFA	A)	Series H Certificates of Participation Series 2020 A	65.42 Negotiated Bid	Co-Manager	Ba2	B+	NR	Primary & Secondary
10/6/2020 Guam								Education

	NYS Housing Fin- Mortgage Agcy	Affordable Hsg Rev Ref Bonds 2020 Series I	100.00 Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	NR	NR	Single Family Housing
	Monroe Co Industrial Dev Corp		32.24 Negotiated Bid	Sole Manager	A2	A	NR	General Acute Care Hospital
10/8/2020	New York City-New York	General Obligation Bonds 2021 Series C	900.00 Negotiated Bid	Co-Manager	Aa2	AA	AA	General Purpose/ Public Imp
	Wyoming Community Dev Authority	Housing Revenue Bonds 2020 Series 2	110.69 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing
	Wyoming Community Dev Authority	Housing Revenue Bonds 2020 Series 3	14.69 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing
	University Of Minnesota Regents	General Obligation Bonds Series 2020 A	31.31 Competitive Bid	Sole Manager	Aa1;Aa1;Aa1	AA;AA;AA	NR;NR;NR;NR	Higher Education
	Riverside Co (Palm Springs) USD	GO Refunding Bonds 2020 Series	29.90 Negotiated Bid	Sole Manager	Aa3	NR	NR	Primary & Secondary Education
10/15/2020	Denver City and Co- Colorado	Airport System Rev Bonds Series 2020 B2	24.06 Negotiated Bid	Lead Manager;Remarketing Agent	A1	A+	AA-	Airports 0.
	Denver City and Co- Colorado	Airport System Rev Bonds Series 2020 A1 & A2	155.85 Negotiated Bid	Lead Manager	A1;A1	A+;A+	AA-;AA-	Airports 0.
10/15/2020	Denver City and Co- Colorado	Airport System Rev Bonds Series 2020 B1	37.47 Negotiated Bid	Lead Manager	A1	A+	AA-	Airports 0.
10/15/2020	Denver City and Co- Colorado	Airport System Rev Bonds Series 2020 C	411.54 Negotiated Bid	Lead Manager	A1;A1	A+;A+	AA-;AA-	Airports 2.
10/15/2020	Michigan St Hsg Dev Au	Rental Housing Revenue Bonds 2020	23.08 Negotiated Bid	Co-Manager	NR	AA	NR	Multi Family Housing 1
10/15/2020	(MSHDA) Atlanta City-Georgia	Series B Water & Wastewater Rev Ref Bonds Series	504.59 Negotiated Bid	Lead Manager	Aa2	AA-	NR	Water & Sewer Facilities
10/16/2020	Connecticut Housing & Fin	2020 Housing Mortgage Fin Prog Bonds 2020 Ser	59.38 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing
10/16/2020	Auth (CHFA) Connecticut Housing & Fin	D Sub D-3 Housing Mortgage Fin Prog Bonds 2020 Ser	40.39 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa;A	NR;NR;NR;NR;NR	AAA;AAA;AAA;A	Multi Family Housing
10/16/2020	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA)	D Sub D-1 Housing Mortgage Fin Prog Bonds 2020 Ser D Sub D-2	19.92 Negotiated Bid	Co-Manager	aa;Aaa;Aaa;Aaa;Aaa;Aa	NR;NR;NR;NR;NR;NR;NR;N R;NR;NR;NR;NR;NR	AA;AAA;AAA;AAA;A AA;AAA;AAA;AAA;AA	Multi Family Housing
		Medical Facs Mtg Rev Ref Bonds Series	208.02 Negotiated Bid	Lead Manager	a;Aaa;Aaa NR	A	A;AAA;AAA;AAA NR	General Acute Care Hospital
		2020 General Obligation BANs 2020 Series	53.00 Negotiated Bid	Sole Manager	NR	NR	NR	Higher Education
10/20/2020	District Kern Community College	General Obligation Bonds Series C	58.50 Negotiated Bid	Sole Manager	Aa2;Aa2;Aa2;Aa2;Aa2	AA-;AA-;AA-;AA-	NR;NR;NR;NR;NR	Higher Education
	District	General Obligation Bonds Series C	5.50 Negotiated Bid	Sole Manager	Aa2	AA-	NR	Higher Education
	District	Revenue Bonds Series 2020	577.06 Negotiated Bid	Co-Manager	Baa1	BBB+	BBB+	General Acute Care Hospital
	Auth Sonoma-Marin Area Rail	Sales Rax Rev Ref Bonds Series 2020 A	122 97 Negotiated Bid	Lead Manager	NR	AA	NR.	Mass Transportation
	Transit Dt Washington State	General Revenue & Ref Bonds Sries 2020 A		Lead Manager	Aa3;NR	A+;NR	NR;NR	Higher Education
	University	& B	109.73 Negotiated Bid	Co-Manager		AAA	NR;NR	
	Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2020 Ser E SubserE-1	76.08 Negotiated Bid		Aaa			Single Family Housing
	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2020 Ser E SubserE-2	56.37 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing
	Auth	Senior Revenue Bonds Series 2020	450.00 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	General Acute Care Hospital
	King Co-Washington	Limited Tax GO Bonds 2020 Series A	53.16 Competitive Bid	Sole Manager	Aaa;Aaa;Aaa	AAA;AAA;AAA	AAA;AAA;AAA	General Purpose/ Public Imp
	SC Pub Svc Au (Santee Cooper)	Revenue Refunding & Imp Bonds 2020 Series A	338.48 Negotiated Bid	Lead Manager	A2	A	A-	Public Power
	California St Public Works Board	Lease Revenue Refunding Bonds 2021 Series A	502.62 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp
10/28/2020	SC Pub Svc Au (Santee Cooper)	Revenue Refunding Obligations 2020 Series B	299.73 Negotiated Bid	Lead Manager	A2	A	A-	Public Power
	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Ser D Subser D1	700.00 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AAA;AAA;AAA	AAA;AAA;AAA	General Purpose/ Public Imp
10/29/2020	Dallas Area Rapid Transit Auth	Sr Ln Sales Tax Rev Ref Bonds Series 2020 D	140.55 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	NR;NR;NR	NR;NR;NR	Mass Transportation
	Dallas Area Rapid Transit Auth	Sr Ln Sales Tax Rev Ref Bonds Series 2020	140.55 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	NR;NR;NR	NR;NR;NR	Mass Transportation
10/29/2020	Georgia Muni Electric Au (MEAG)	General Resolution & Sub Bonds Series 2020 A	252.81 Negotiated Bid	Lead Manager	A2;A2	A-;A-	BBB+;BBB+	Public Power
10/29/2020	Maine State Housing Authority	Mortgage Purchase Bonds 2020 Series G	35.65 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing
10/29/2020	Maine State Housing			Lead Manager	Aa1	AA+	NR	Single Family Housing
		Mortgage Purchase Bonds 2020 Series H	40.00 Negotiated Bid					Oligie Family Flousing
10/29/2020	Authority North Carolina	Mortgage Purchase Bonds 2020 Series H Limited Obligation Bonds Series 2020 B	40.00 Negotiated Bid 700.00 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Toll Roads, Highways &
	North Carolina Michigan St Hsg Dev Au	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020			Aa1 Aa2	AA+	AA+ NR	
10/30/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Single Family Mortgage Rev Bonds 2020	700.00 Negotiated Bid	Co-Manager				Toll Roads, Highways & Streets
10/30/2020 10/30/2020	North Carolina Michigan St Hsg Dev Au (MSHDA)	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C	700.00 Negotiated Bid 151.63 Negotiated Bid	Co-Manager Lead Manager	Aa2	AA+	NR	Toll Roads, Highways & Streets Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020	Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Single Family Mortgage Rev Bonds 2020 Series D Series D	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid	Co-Manager Lead Manager Lead Manager	Aa2 Aa2	AA+	NR NR	Toll Roads, Highways & Streets Single Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Single Family Mortgage Rev Bonds 2020 Series D Environmental Imp Rev Bonds Series 2020 A	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager	Aa2 Aa2 Caa	AA+ B-	NR NR NR	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Hodover Industrial Dev Board New Jersey Georgia Muni Electric Au	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Single Family Mortgage Rev Bonds 2020 Series D Environmental Imp Rev Bonds Series 2020 A Environmental Imp Rev Bonds Series 2020	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager	Aa2 Aa2 Caa	AA+ AA+ B-	NR NR NR	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020	North Carolina Michigan St Hog Dev Au (MSHDA) Michigan St Hog Dev Au (MSHDA) Michigan St Hog Dev Au (MSHDA) Hodura Finance Authority Hoover Industrial Dev Board New Jersey Georgia Muni Electric Au (MEAG) Colorado Hog & Fin Auth	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Single Family Mortgage Rev Bonds 2020 Series D Environmental Imp Rev Bonds Series 2020 A Environmental Imp Rev Bonds Series 2020 GO Emergency Bonds 2020 Series A	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3,672.36 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager	Aa2 Caa Caa A3	AA+ B- B- BBB+	NR NR NR A-	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Georgia Muni Electric Au (MEAG)	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Single Family Mortgage Rev Bonds 2020 Series D Environmental Imp Rev Bonds Series 2020 A Environmental Imp Rev Bonds Series 2020 GO Emergency Bonds 2020 Series A Revenue Bonds Series 2020 A	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3.672.36 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa2 Caa Caa A3	AA+ AA+ B- B- B- BBB+ A-	NR NR NR NR A- BBB+	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/19/2020 11/20/2020 11/20/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jarsey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth (CHFA) NYC Housing Dev Corp NYC Housing Dev Corp	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Single Family Mortgage Rev Bonds 2020 Series D Environmental Imp Rev Bonds Series 2020 A Environmental Imp Rev Bonds Series 2020 GO Emergency Bonds 2020 Series A Revenue Bonds Series 2020 A Multi-Family Project Bonds 2020 Series B Housing Impact Bonds 2020 Series C Housing Impact Bonds 2020 Series C	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3,672.36 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 31.53 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Caa Caa A3 A1 Aaa	AA+ AA+ B- B- B- BBB+ A- AAA	NR NR NR NR A- BBB+ NR	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/19/2020 11/20/2020 11/20/2020 11/24/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jarsey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth (CHFA) NYC Housing Dev Corp NWC Housing Dev Corp New York Transportation Development Corporation	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 31.53 Negotiated Bid 274.58 Negotiated Bid 274.58 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Caa Caa A3 A1 Aaa Aa2 Aa2 Baa1	AA+ AA+ B- B- BBB+ A- AAA NR NR NR	NR NR NR NR A- BBB+ NR NR NR NR BBB	Toll Roads, Highways & Streets Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/24/2020 11/24/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jarsey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth COHFA) NYC Housing Dev Corp New York Transportation New Jork Transportation New York Transportation	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3,672.36 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 31.53 Negotiated Bid 274.58 Negotiated Bid 49.59 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Caa Caa A3 A1 Aaa Aa2 Aa2 Baa1 Baa1	AA+ B- B- BBB+ A- AAA NR NR NR	NR NR NR NR A- BBB+ NR NR NR BBB+ BBB	Toll Roads, Highways & Streets Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Airports Airports
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/24/2020 11/24/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jarsey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth COHFA) NYC Housing Dev Corp NWC York Transportation New York Transportation New York Transportation New York Transportation New York Transportation Dealware Economic Dev Auth	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3,672.36 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 257.54 Negotiated Bid 274.58 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Caa Caa A3 A1 Aaa Aa2 Baa1 Baa3,Baa3	AA+ AA+ B- B- BBB+ A- AAA NR NR NR NR NR	NR NR NR NR A- BBB+ NR NR BBB NR NR NR NR NR NR NR BBB	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Poliution Control
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/19/2020 11/20/2020 11/24/2020 11/24/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jarsey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth (CHFA) NYC Housing Dev Corp NYC Housing Dev Corp New York Transportation New York Transportation Development Corporation Delaware Economic Dev Auth Colorado Reg Transportation DI	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3,672.36 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 257.58 Negotiated Bid 274.58 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 247.18 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Caa Caa A3 A1 Aaa Aa2 Baa1 Baa3 Baa3 Baa2	AA+ AA+ B- B- BBB+ A- AAA NR NR NR NR NR	NR NR NR NR A- BBB+ NR NR BBB NR NR A-	Toll Roads, Highways & Streets Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Airports Airports Poliution Control Mass Transportation
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/24/2020 11/24/2020 12/1/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth (CHFA) NYC Housing Dev Corp NYC Housing Dev Corp New York Transportation New York Transportation Deleware Economic Dev Auth Colorado Reg Transportation DI Colorado Reg	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Environmental Imp Rev Bonds Series 2020 A Environmental Imp Rev Bonds Series 2020 GO Emergency Bonds 2020 Series A Revenue Bonds Series 2020 A Multi-Family Project Bonds 2020 Series B Housing Impact Bonds 2020 Series C Housing Impact Bonds 2020 Series C Special Facility Rev Bonds Series 2020 A Special Facility Rev Bonds Series 2020 B Facility Refunding Rev Bonds Series 2020 B Facility Refunding Rev Bonds Series 2020 A & B Revenue Bonds Series 2020 A Revenue Bonds Series 2020 A	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3,672.36 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 257.58 Negotiated Bid 274.58 Negotiated Bid 49.59 Negotiated Bid 247.18 Negotiated Bid 304.82 Negotiated Bid 504.82 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager	Aa2 Caa Caa A3 A1 Aaa Aa2 Baa1 Baa3 Baa2 Baa2	AA+ AA+ B- B- BBB+ A- AAA NR NR NR NR NR	NR NR NR NR A- BBB+ NR NR BBB NR;NR A- A- A- A- A-	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/24/2020 11/24/2020 12/1/2020 12/1/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jarsey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth (CHEA) NYC Housing Dev Corp NWC Housing Dev Corp New York Transportation New Jork Transportation Devleopment Corporation New York Transportation Delaware Economic Dev Auth Colorado Reg Transportation Dt Colorado Reg Transportation Dt Colorado Reg Transportation Dt New Jarsey Trans Trust Flund Au	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 63.40 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 31.53 Negotiated Bid 274.58 Negotiated Bid 49.59 Negotiated Bid 247.18 Negotiated Bid 304.82 Negotiated Bid 50.97 Negotiated Bid 1,500.00 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa2 Caa Caa A3 A1 Aaa Aa2 Baa1 Baa1 Baa3,Baa3 Baa2 Baa2 Baa1 Baa1;Baa1;Baa1;Baa1;Baa1	AA+ AA+ B- B- BBB+ A- AAA NR NR NR NR NR NR NR NR NR BBB-,BBB-	NR NR NR NR A- BBB+ NR NR NR BBB- BBB BBB- BBB- BBB+BBB+BBB+BBB+BBB-BBB+BBB+	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Pollution Control Mass Transportation Mass Transportation Mass Transportation
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 11/20/2020 12/1/2020 12/1/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth (CHEA) NYC Housing Dev Corp New York Transportation New York Transportation Dealware Economic Dev Auth Colorado Reg Transportation Dt Colorado Reg Transportation Dt New York Transportation Delaware Economic Dev Auth Colorado Reg Transportation Dt New Jersey Trans Trust Fund Au Colorado Reg Fund Standard	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series D Series C Series C Series C Series C Series C Series C Series D Series C Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 63.40 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 31.53 Negotiated Bid 275.58 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 247.18 Negotiated Bid 50.48 Negotiated Bid 150.00 Negotiated Bid 1,500.00 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Co-Manager	Aa2 Aa2 Caa Caa A3 A1 Aaa Aa2 Baa1 Baa1 Baa3 Baa2 Baa1 Baa1;Baa1;Baa1;Baa1;	AA+ AA+ B- B- BBB+ A- AAA NR NR NR NR NR NR NR NR NR ABB-,BBB-,BBB-,BBB-,BBB-,BBB-,BBB-,BBB-	NR NR NR NR A- BBB+ NR NR BBB BBB BBB NR;NR A- A- BBB+;BBB+;BBB+;BBB+;BBB+;BBB+;BBB+;BBB	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Multi Family Housing Mass Transportation Mass Transportation Multi Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/24/2020 12/1/2020 12/2/2020 12/3/2020 12/3/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth (CHEA) NYC Housing Dev Corp NYC Housing Dev Corp New York Transportation New York Transportation Delaware Economic Dev Auth Colorado Reg Transportation DI Colorado Reg Transportation DI Colorado Reg Transportation DI New Jersey Colorado Reg Transportation DI New Jersey Colorado Reg Transportation DI New Jersey Colorado Reg Transportation DI Colorado Reg Transportation DI New Jersey Trans Trust Fund Au Colorado Hsg & Fin Auth (CHEA) NYS Housing Fin-	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 63.40 Negotiated Bid 3,672.36 Negotiated Bid 37.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 275.58 Negotiated Bid 275.59 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 247.18 Negotiated Bid 50.482 Negotiated Bid 1,500.00 Negotiated Bid 1,500.00 Negotiated Bid 24.56 Negotiated Bid 194.57 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Caa Caa A3 A1 Aaa Aa2 Baa1 Baa1 Baa3:Baa3 Baa2 Baa1:Baa1;Baa1;Baa1;Baa1;Aaa Aa2,Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR BBB BBB BBB NR;NR A- A- BBB+BBB+BBB+;BBB+;BBB+;BBB+;BBB+;BBB+;	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Multi Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/24/2020 12/1/2020 12/2/2020 12/3/2020 12/3/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth (CHEA) NYC Housing Dev Corp New York Transportation New York Transportation Delaware Economic Dev Auth Colorado Reg Transportation Di Colorado Reg Transportation Di New York Transportation Delaware Economic Dev Auth Colorado Reg Transportation DI Colorado Reg Transportation DI New Jersey Trans Trust Fund Au Colorado Hsg & Fin Auth (CHEA) NYS Housing Fin Mortnagee Agoy NYS Housing Fin NYS HO	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C Series C Series C Series C Series C Series D Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 63.40 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 31.53 Negotiated Bid 275.58 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 50.48 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 50.70 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Caa Caa A3 A1 Aaa Aa2 Baa1 Baa1 Baa3 Baa2 Baa1 Baa1 Baa1 Baa1 Baa1 Baa1 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR BBB BBB BBB NR;NR A- A- BBB+;BBB+;BBB+;BBB+;BBB+;BBB+;BBB+;BBB	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 12/2/2020 12/2/2020 12/3/2020 12/3/2020 12/3/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth (CHEA) NYC Housing Dev Corp NYC Housing Dev Corp NYC Housing Dev Corp New York Transportation New York Transportation Delaware Economic Dev Auth Colorado Reg Transportation Dt Colorado Reg Transportation Dt Colorado Reg Transportation Dt New Jersey Trans Trust Fund Au Colorado Hsg & Fin Auth (CHEA) NYS Housing Fin- Mortgage Agry	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C Series C Series C Series C Series D Series C Series D Series D Series C Series D Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 63.40 Negotiated Bid 3.672.36 Negotiated Bid 37.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 275.84 Negotiated Bid 275.85 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 304.82 Negotiated Bid 505.87 Negotiated Bid 1,500.00 Negotiated Bid 1,500.00 Negotiated Bid 1,500.00 Negotiated Bid 24.56 Negotiated Bid 194.57 Negotiated Bid 287.05 Negotiated Bid 384.43 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa2 Caa Caa A3 A1 Aaa Aa2 Aa2 Aa2 Aa2 Baa1 Baa1 Baa1 Baa3 Baa2 Baa1 Baa1 Baa1 Baa1 Baa1 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR NR BBB BBB NR,NR A- A- BBB+,BBB+,BBB+,BBB+,BBB+,BBB+,BBB+,BBB	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 11/20/2020 12/2/2020 12/2/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Georgia Mun Electric Au (MEAO) Colorado Hsg & Fin Auth (CHFA) NYC Housing Dev Corp Auth Colorado Reg Transportation Dt New Jersey Trans Trust Fund Au Massachusetts Housing Fin- Mortragea Pary NYC Housing Fin- Mortragea Pary NYC Housing Fin- Mortragea Pary NYC Housing Fin- Auth Massachusetts Housing Fin Agpri	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series D Series C Series D Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3.672.36 Negotiated Bid 37.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 31.53 Negotiated Bid 274.58 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 304.82 Negotiated Bid 504.82 Negotiated Bid 1,500.00 Negotiated Bid 1,500.00 Negotiated Bid 24.56 Negotiated Bid 194.57 Negotiated Bid 287.05 Negotiated Bid 287.05 Negotiated Bid 534.43 Negotiated Bid 63.21 Negotiated Bid	Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Caa Caa A3 A1 Aaa Aa2 Aa2 Aa2 Baa1 Baa1 Baa1 Baa3 Baa2 Baa1 Baa1 Baa1,Baa1,Baa1,Baa1 Aaa Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa1 Aaa Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR NR NR BBB- BBB BBB BBB NR,NR A- A- BBB+,BBB+,BBB+,BBB NR,NR A- NR NR NR NR NR NR NR NR NR,NR A- NR,NR NR,NR	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Mult Family Housing Mult Family Housing Mult Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing Single Family Housing Water & Sewer Facilities Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 11/20/2020 12/2/2020 12/2/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Board New Jersey Board New Jersey NYC Housing Dev Corp Auth Colorado Reg Transportation Dt Colorado Reg Transportation Dt NYC Housing Fin- Mortgage Agory NYC Housing Fin- Mortgage Agory NYC Housing Fin- MYC Housing F	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C Series D Series C Ser	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 63.40 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 275.54 Negotiated Bid 275.55 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 69.70 Negotiated Bid 1,500.00 Negotiated Bid 1,500.00 Negotiated Bid 194.57 Negotiated Bid 247.68 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 63.21 Negotiated Bid	Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa2 Caa A3 A1 Aaa A41 Aaa Aa2 Aa2 Baa1 Baa1 Baa1 Baa3 Baa2 Baa2 Baa1:Baa1:Baa1;Baa1;Aaa Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR NR BBB BBB NR:NR A- A- A- A- NR	Toil Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 12/3/2020 12/3/2020 12/3/2020 12/4/2020	North Carolina Michigan St Hsg Dev Au (Michigan St Hsg St In Auth (CHEA) NYC Housing Dev Corp NYC Housing Dev Corp NYC Housing Dev Corp New York Transportation New York Transportation Devilopment Corporation New York Transportation Deliaware Economic Dev Auth Colorado Reg Transportation Dt Colorado Reg Transportation Dt Colorado Reg NYC Housing Fin Auth (CHEA) NYS Housing Fin Mortgage Agoy NYS Housing Fin Mortgage Agoy NYS Housing Fin Mortgage Agoy NYS Housing Fin Mortgage Agoy NYC Municipal Water Fin Auth Massachusetts Housing Fin Agoy Massachusetts Housing Fin Agoy Massachusetts Housing	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series D Series C Series D Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3.672.36 Negotiated Bid 37.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 31.53 Negotiated Bid 274.58 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 304.82 Negotiated Bid 504.82 Negotiated Bid 1,500.00 Negotiated Bid 1,500.00 Negotiated Bid 24.56 Negotiated Bid 194.57 Negotiated Bid 287.05 Negotiated Bid 287.05 Negotiated Bid 534.43 Negotiated Bid 63.21 Negotiated Bid	Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Caa Caa A3 A1 Aaa Aa2 Aa2 Aa2 Baa1 Baa1 Baa1 Baa3 Baa2 Baa1 Baa1 Baa1,Baa1,Baa1,Baa1 Aaa Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa1 Aaa Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR NR NR BBB- BBB BBB BBB NR,NR A- A- BBB+,BBB+,BBB+,BBB NR,NR A- NR NR NR NR NR NR NR NR NR,NR A- NR,NR NR,NR	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing Single Family Housing Single Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 11/20/2020 12/2/2020 12/2/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Beard New Jersey Beard New Jersey New Joseph Fin Auth NYC Housing Dev Corp New York Transportation Development Corporation Development Corporation Development Corporation Colorado Reg Transportation Dev Auth Colorado Reg Transportation Reg Transportation Province New Jersey Trans Trust Fund Au NYS Housing Fin- Mortgage Agor NYS Housing Fin- Mortgage Housing Fin- Agor Massachusetts Housing Fin Agor New York Transportation	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C Series D Series C Ser	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3.672.36 Negotiated Bid 37.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 31.53 Negotiated Bid 274.58 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 304.82 Negotiated Bid 50.97 Negotiated Bid 1,500.00 Negotiated Bid 194.57 Negotiated Bid 24.56 Negotiated Bid 257.05 Negotiated Bid 267.05 Negotiated Bid 267.05 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 534.65 Negotiated Bid 534.67 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa2 Caa A3 A1 A1 Aaa Aa2 Aa2 Aa2 Baa1 Baa1 Baa1 Baa1 Baa2 Baa2 Baa1;Baa1;Baa1;Baa1; Baa1;Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR NR NR BBB BBB NR:NR A- A- BBB+:BBB+:BBB+:BB H::BB+:BBB+ NR	Toil Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 12/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020	North Carolina Michigan St Hsg Dev Au (Michigan St Hsg	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Single Family Mortgage Rev Bonds 2020 Series D Series D Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C S	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 63.40 Negotiated Bid 77.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 275.54 Negotiated Bid 275.55 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 6.97 Negotiated Bid 1,500.00 Negotiated Bid 14.57 Negotiated Bid 24.56 Negotiated Bid 257.55 Negotiated Bid 194.57 Negotiated Bid 194.57 Negotiated Bid 195.45 Negotiated Bid 196.57 Negotiated Bid 196.58 Negotiated Bid 196.59 Negotiated Bid 196.59 Negotiated Bid 196.56 Negotiated Bid	Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa2 Caa A3 A1 Aaa A41 Aaa Aa2 Aa2 Baa1 Baa1 Baa1 Baa3 Baa2 Baa2 Baa1:Baa1:Baa1;Baa1 Aaa Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR NR BBB BBB NR:NR A-	Toil Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/24/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020 12/3/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Beard New Jersey Beard New Jersey New Joseph Fin Auth NYC Housing Dev Corp New York Transportation Development Corporation Development Corporation Development Corporation Colorado Reg Transportation Dev Auth Colorado Reg Transportation Reg Transportation Province New Jersey Trans Trust Fund Au NYS Housing Fin- Mortgage Agor NYS Housing Fin- Mortgage Housing Fin- Agor Massachusetts Housing Fin Agor New York Transportation	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series C Serie	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3.672.36 Negotiated Bid 37.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 31.53 Negotiated Bid 274.58 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 304.82 Negotiated Bid 50.97 Negotiated Bid 1,500.00 Negotiated Bid 194.57 Negotiated Bid 24.56 Negotiated Bid 257.05 Negotiated Bid 267.05 Negotiated Bid 267.05 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 534.65 Negotiated Bid 534.67 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager	Aa2 Aa2 Caa A3 A1 A1 Aaa Aa2 Aa2 Aa2 Baa1 Baa1 Baa1 Baa1 Baa2 Baa2 Baa1;Baa1;Baa1;Baa1; Baa1;Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR NR NR BBB BBB NR:NR A- A- BBB+:BBB+:BBB+:BB H::BB+:BBB+ NR	Toil Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 12/2/2020 12/2/2020 12/3/2020 12/3/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020	North Carolina Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Michigan St Hsg Dev Au (MSHDA) Indiana Finance Authority Hoover Industrial Dev Board New Jersey Georgia Muni Electric Au (MEAG) Colorado Hsg & Fin Auth (CHEA) NYC Housing Dev Corp NYC Housing Dev Corp NYC Housing Dev Corp NYC Housing Dev Corp New York Transportation Development Corporation New York Transportation Development Corporation Delaware Economic Dev Auth Colorado Reg Transportation Dt New Jersey Trans Trust Fund Au Colorado Hsg & Fin Auth (CHEA) Colorado Hsg & Fin Auth (CHEA) Michigan Apry Massachusetts Housing Fin Agoy Massachusetts Housing	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Series D Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C S Series	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 63.40 Negotiated Bid 3.672.36 Negotiated Bid 37.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 274.58 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 6.97 Negotiated Bid 1,500.00 Negotiated Bid 1,500.00 Negotiated Bid 24.56 Negotiated Bid 24.56 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 6.3.21 Negotiated Bid 5.34.43 Negotiated Bid 6.3.21 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager	Aa2 Aa2 Caa A3 A1 Aaa A41 Aaa Aa2 Aa2 Baa1 Baa1 Baa1 Baa1 Baa2 Baa2 Baa1;Baa1;Baa1;Baa1; Baa1;Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR NR NR BBB BBB NR:NR A- A- BBB+:BBB+:BBB+:BB H::BB+:BBB+:BBB+ NR	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 11/20/2020 12/2/2020	North Carolina Michigan St Hsg Dev Au (Michigan St Hsg Asia (Michigan	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Single Family Mortgage Rev Bonds 2020 Series C Single Family Mortgage Rev Bonds 2020 Series D Environmental Imp Rev Bonds Series 2020 A Environmental Imp Rev Bonds Series 2020 GO Emergency Bonds 2020 Series A Revenue Bonds Series 2020 A Multi-Family Project Bonds 2020 Series B Housing Impact Bonds 2020 Series C Housing Impact Bonds 2020 Series C Housing Impact Bonds 2020 Series C Special Facility Rev Bonds Series 2020 A Special Facility Rev Bonds Series 2020 A Special Facility Rev Bonds Series 2020 A Revenue Bonds Series 2020 A Revenue Bonds Series 2020 A Revenue Bonds Series 2020 B Facility Refunding Rev Bonds Series 2020 A Revenue Bonds Series 2020 B Transportation Program Bonds 2020 Series AM Multi-Family Housing Rev Bonds 2020 Series LBM-1 Alfordable Housing Rev Bonds 2020 Series LBM-1 Alfordable Housing Rev Bonds 2020 Series LBM-1 Housing Bonds 2020 Series D-1 Housing Bonds 2020 Series D-1 Housing Bonds 2020 Series D-2 Housing Bonds 2020 Series D-2 Housing Bonds 2020 Series D-2 Housing Bonds 2020 Series E Special Facility Rev Bonds Series 2020 C Single Family Mortgage Rev Bonds Series 2021 A Single Family Mortgage Rev Bonds Series 2021 A Single Family Mortgage Rev Bonds Series 2021 A Sub Special Obligation Ref Bonds Series	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 63.40 Negotiated Bid 35.03 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 275.54 Negotiated Bid 375.59 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 49.59 Negotiated Bid 69.71 Negotiated Bid 1,500.00 Negotiated Bid 194.57 Negotiated Bid 247.68 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 69.21 Negotiated Bid	Co-Manager Lead Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa2 Caa A3 A1 A1 Aaa Aa2 Aa2 Baa1 Baa1 Baa1 Baa1 Baa2 Baa2 Baa1;Baa1;Baa1;Baa1; Baa1;Aa1 Aa2	AA+ AA+ B- B- BBB+ A- AAA NR	NR NR NR NR A- BBB+ NR NR NR NR BBB BBB NR:NR A- A- BBB+:BBB+:BBB+:BB H::BB+:BBB+ NR	Toil Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 12/2/2020	North Carolina Michigan St Hsg Dev Au (Michigan St Hsg St Fin Auth (OHFA) NYC Housing Dev Corp NYC Housing Dev Corp New York Transportation New York Transportation Development Corporation New York Transportation Development Corporation New York Transportation Dt Colorado Reg Transportation Dt Colorado Reg Transportation Dt Colorado Reg Transportation New Jersey Trans Trust Fund Au New Jersey Trans Trust Fund Au Massachusetts Housing Fin Agry Missachusetts Housing	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Single Family Mortgage Rev Bonds 2020 Series D Series D Single Family Mortgage Rev Bonds 2020 Series D Series D Single Family Mortgage Rev Bonds Series 2020 A Series D Series D Series D Series C	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3,672.36 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 274.58 Negotiated Bid 274.58 Negotiated Bid 274.58 Negotiated Bid 30.48 Negotiated Bid 49.59 Negotiated Bid 247.18 Negotiated Bid 304.82 Negotiated Bid 1,500.00 Negotiated Bid 1,500.00 Negotiated Bid 24.56 Negotiated Bid 257.05 Negotiated Bid 287.05 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 534.43 Negotiated Bid 50.56 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa2 Caa A3 A1 Aaa A41 Aaa Aa2 Baa1 Baa1 Baa1 Baa1,Baa1,Baa1,Baa1 Aaa Aa2,Aa2 Aa1,Aa1,Aa1 Aa2 Aa2 Aa1 Aa1 Aa2 Aa2 Aa1 Aa1 Aa2 Aa2 Aa1 Aa1 Aa2	AA+ AA+ B- B- B- BBB+ A- AAA NR AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA	NR NR NR NR A- BBB+ NR NR NR BBB- BBB- BBB- BBB+ BBB+ BBB+ BBB+ BBB	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 12/3/2020	North Carolina Michigan St Hsg Dev Au (Michigan St Hsg Dev Carp NYC Housing Dev Corp NYC Housing Dev Corp NYC Housing Dev Corp New York Transportation New York Transportation New York Transportation Development Corporation New York Transportation Colorado Reg Transportation Dt Colorado Reg Transportation New Jersey Trans Trust Fund Au NYS Housing Fin- Mortgage Agor NYC Municipal Water Fin Auth Massachusetts Housing Fin Agor Missachusetts Housing	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Single Family Mortgage Rev Bonds 2020 Series D Series D Single Family Mortgage Rev Bonds 2020 Series D Series D Single Family Mortgage Rev Bonds Series 2020 A Series D Series D Series D Series D Series C	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3,672.36 Negotiated Bid 37.39 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 274.58 Negotiated Bid 274.58 Negotiated Bid 31.53 Negotiated Bid 247.18 Negotiated Bid 304.82 Negotiated Bid 304.82 Negotiated Bid 1,500.00 Negotiated Bid 1,500.00 Negotiated Bid 247.68 Negotiated Bid 247.68 Negotiated Bid 255.00 Negotiated Bid 267.00 Negotiated Bid 276.00 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Co-Manager Lead Manager Lead Manager Co-Manager	Aa2 Aa2 Caa A3 A1 A41 Aaa Aa2 Baa1 Baa1 Baa1 Baa2 Baa2 Baa1;Baa1;Baa1;Baa1;Baa1; Baa1 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa2 Aa1;Aa1;Aa1;Aa1 Aa2 Aa2 Aa2 Aa2 Aa1	AA+ AA+ B- B- B- BBB+ A- AAA ANR NR AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA	NR NR NR NR NR A- BBB+ NR NR NR BBB BBB BBB NR:NR A- A- A- BBB+:BBB+:BBB+:BB B+:BBB+:BBB+:BB NR:NR NR NR:NR NR:NR NR:NR NR:NR NR N	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Airports Pollution Control Mass Transportation Mass Transportation Multi Family Housing Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp
10/30/2020 10/30/2020 11/12/2020 11/12/2020 11/12/2020 11/18/2020 11/18/2020 11/18/2020 11/20/2020 11/20/2020 11/20/2020 12/3/2020	North Carolina Michigan St Hsg Dev Au (Michigan St Hsg Dev Carp New York Standard Standa	Limited Obligation Bonds Series 2020 B Single Family Mortgage Rev Bonds 2020 Series C Series C Series C Single Family Mortgage Rev Bonds 2020 Series D Single Family Mortgage Rev Bonds 2020 Series D Series D Single Family Mortgage Rev Bonds 2020 Series D Series C Series D Series C Series D Series C S S S S S S S S S S S S S S S S S S S	700.00 Negotiated Bid 151.63 Negotiated Bid 93.06 Negotiated Bid 33.30 Negotiated Bid 63.40 Negotiated Bid 3.672.36 Negotiated Bid 3.672.36 Negotiated Bid 35.03 Negotiated Bid 257.54 Negotiated Bid 257.54 Negotiated Bid 247.58 Negotiated Bid 247.58 Negotiated Bid 31.53 Negotiated Bid 34.59 Negotiated Bid 34.59 Negotiated Bid 34.57 Negotiated Bid 1.500.00 Negotiated Bid 24.56 Negotiated Bid 24.56 Negotiated Bid 257.05 Negotiated Bid 287.05 Negotiated Bid 53.4.43 Negotiated Bid 53.4.43 Negotiated Bid 53.4.44 Negotiated Bid 5.56 Negotiated Bid 5.76 Negotiated Bid 5.76 Negotiated Bid 5.77 Negotiated Bid 5.77 Negotiated Bid 5.78 Negotiated Bid 5.79 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Lead Manager Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager	Aa2 Aa2 Caa Aa3 A1 Aaa Aa2 Baa1 Baa1 Baa3,Baa3 Baa2 Baa1,Baa1,Baa1,Baa1,Baa1 Baa1 Aa2	AA+ AA+ B- B- B- BBB+ A- AAA ANR NR AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA+ AA	NR NR NR NR NR A- BBB+ NR NR NR BBB BBB BBB NR:NR A- A- A- BBB+:BBB+:BBB+:BB B+:BBB+:BBB+:BB NR:NR NR NR:NR NR:NR NR N	Toll Roads, Highways & Streets Single Family Housing Single Family Housing General Purpose/ Public Imp Industrial Development General Purpose/ Public Imp Public Power Multi Family Housing Multi Family Housing Multi Family Housing Airports Airports Polition Control Mass Transportation Mass Transportation Mass Transportation Mass Transportation Mass Transportation Single Family Housing General Purpose/ Public Imp General Purpose/ Public Imp Multi Family Housing Multi Family Housing

12/15/2020	Empire State Development Corp	Revenue Bonds Series 2020 F	159.57 Competitive Bid	Sole Manager	NR;NR	AA+;AA+	AA+;AA+	Economic Development	
12/15/2020		Environmental Facs Rev Bonds Series 2020	47.97 Negotiated Bid	Sole Manager	NR	NR	NR	Recycling	
12/15/2020		Environmental Facs Rev Bonds Series 2020	71.05 Negotiated Bid	Sole Manager	NR	NR	NR	Recycling	
12/16/2020		General Obligation Bonds 2021 Series A-1	40.67 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
12/16/2020	O Connecticut	General Obligation Bonds 2021 Series A-2	71.15 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
12/16/2020	Connecticut	General Obligation Bonds 2021 Series A-3	200.00 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
12/16/2020	Connecticut	General Obligation Bonds 2021 Series A-4	185.14 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
		General Obligation Bonds 2021 Series A-5	137.44 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
		General Obligation Bonds 2021 Series A-6	151.62 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
		General Obligation Bonds 2021 Series A-7	14.00 Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	
12/17/2020	New York City-New York	General Obligation Bonds Series D & E	1,500.00 Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	AA-;AA-	General Purpose/ Public Imp	
1/6/2021	1 Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2021 Series C-1	28.92 Negotiated Bid	Co-Manager	Aa1	AAA	NR	Single Family Housing	
1/6/2021		Single Family Mortgage Bonds 2021 Series	1.48 Negotiated Bid	Co-Manager	Aa1	AAA	NR	Single Family Housing	
1/6/2021	1 Colorado Hsg & Fin Auth	Single Family Mortgage Bonds 2021 Series	51.53 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
1/14/2021	1 Columbus City-Ohio	B GO Var Purp & Ltd Tx Ref Bonds Series	85.26 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA	AAA;AAA;AAA;AAA	General Purpose/ Public Imp	
1/14/2021		2021-1&2 &C&D GO Various Purpose & Ltd Tx Bonds Series	317.97 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
1/14/2021		2021 A & B GO Refunding Bonds Series 2021 A	330.50 Negotiated Bid	Lead Manager	A2	A+	A+	General Purpose/ Public Imp	
1/14/2021		GO Refunding Bonds 2021 Series	107.70 Negotiated Bid	Sole Manager	Aa2	AA-	NR	Primary & Secondary	
	USD							Education	
	1 Long Island Power Authority	Electric System Gen Rev Notes Series 2021	250.00 Negotiated Bid	Lead Manager	A2	A	A	Public Power	
	Pwr (LADWP)	Water Sys Var Rate Demand Bonds 2021 Series A-1	50.00 Negotiated Bid	Sole Manager	Aa2	NR	AA	Water & Sewer Facilities	
1/15/2021	1 Los Angeles Dept Wtr & Pwr (LADWP)	Water Sys Var Rate Demand Bonds 2021 Series A-1	50.00 Negotiated Bid	Sole Manager	Aa2	NR	AA	Water & Sewer Facilities	
1/21/2021	1 Colorado	Education Loan Program TRANs Series 2020 B	390.00 Competitive Bid	Lead Manager	NR;NR;NR	NR;NR;NR	NR;NR;NR	Primary & Secondary Education	
1/26/2021	Nashville-Davidson Co	GO Refunding Bonds Series 2021 A	131.30 Negotiated Bid	Co-Manager	Aa2	AA	NR	General Purpose/ Public Imp	
1/26/2021		GO Refunding Bonds Series 2021 B	497.03 Negotiated Bid	Co-Manager	Aa2	AA	NR	General Purpose/ Public Imp	
	Metro Govt	Sub Refunding Revenue Bonds 2021 Series	92.95 Negotiated Bid	Lead Manager	Aa3	A+	AA-	Airports	
	Airports	C Sub Revenue & Refunding Bonds 2021	405.41 Negotiated Bid	Lead Manager	Aa3	A+	AA-	Airports	
	Airports	Series A Sub Revenue & Refunding Bonds 2021		Lead Manager	Aa3	A+	AA-		
	Airports	Series B	395.01 Negotiated Bid					Airports	
	Metro Govt	Electric System Revenue Bonds 2021 Series A	147.51 Negotiated Bid	Co-Manager	NR	AA	AA+	Public Power	
1/27/2021	1 Foothill/Eastern Transp	Sr & Jr Ln Toll Road Ref Rev Bond Series 2021 A & C	572.19 Negotiated Bid	Co-Manager	Baa2;Baa2;Baa2;Baa2; Baa2	A-;BBB+;A-;BBB+;BBB+	BBB;BBB-;BBB;BBB- :BBB-	Toll Roads, Highways & Streets	
1/27/2021		Sr & Jr Ln Toll Road Ref Rev Bond Series 2021 B & D	187.59 Negotiated Bid	Co-Manager	Baa2;Baa2	A-;BBB+	BBB;BBB-	Toll Roads, Highways & Streets	
2/3/2021		Revenue Bonds Series 2021	29.36 Negotiated Bid	Sole Manager	Aa2	NR	NR	Higher Education	
2/4/2021	1 NYC Transitional Finance	Future Tax Secured Sub Bonds 2021 Ser E	900.00 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1	AAA;AAA;AAA	AAA;AAA;AAA;AAA	General Purpose/ Public Imp	
2/10/2021		Sub E-1 Gen Fund Annual Appro Ref Bonds Series	118.75 Negotiated Bid	Lead Manager	Aa2	NR	AA	General Purpose/ Public Imp	
		A of 2021 Transmission Contrct Ref Rev Bond Series	397.19 Negotiated Bid	Co-Manager	NR	A	A+	Public Power	
	Authority (LCRA)	2021							
	Auth (CHFA)	A SubserA-4	70.37 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
2/16/2021	1 Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2021SerA SubserA-1&3	175.52 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
2/16/2021	1 Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2021Ser A Subser A-2	17.53 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
2/18/2021	1 Maine State Housing Authority	Mortgage Purchase Bonds 2021 Series A	50.00 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Multi Family Housing	
2/19/2021	Pennsylvania Housing Fin	Single Family Mortgage Rev Bonds Series	122.13 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	
2/19/2021	Agcy (PHFA) 1 Pennsylvania Housing Fin	2021-134 A Single Family Mortgage Rev Bonds Series	35.80 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	
2/23/2021	Agcy (PHFA) 1 Regents of the University	2021-134 B General Revenue Bonds 2021 Series BH	290.23 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA;AA;AA	AA;AA;AA	Higher Education	
2/23/2021	of California 1 Regents of the University	General Revenue Bonds 2021 Series BI &		Co-Manager	Aa2;Aa2	AA:AA	AA;AA		
	of California	BJ	1 089 33 Negotiated Rid					Higher Education	
			1,089.33 Negotiated Bid	-				Higher Education	
2/24/2021		Multi-Family Housing Rev Bonds 2021 Series B	212.00 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
2/24/2021	1 NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021		-			NR NR		
2/24/2021		Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021	212.00 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
	NYC Housing Dev Corp NYC Municipal Water Fin	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A -1 Multi-Family Housing Rev Bonds 2021 Series A -2 Wit & Swr 2nd Gen Reso Rev Bonds	212.00 Negotiated Bid 94.94 Negotiated Bid	Co-Manager Lead Manager	Aa2 Aa2	AA+ AA+	NR NR NR	Multi Family Housing Multi Family Housing	
	NYC Housing Dev Corp NYC Municipal Water Fin Auth NYC Municipal Water Fin	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A -1 Multi-Family Housing Rev Bonds 2021 Series A -2 Wir & Sw 2nd Gen Reso Rev Bonds SeriesCSubser CC-183 Wir & Sw 2nd Gen Reso Rev Bonds	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid	Co-Manager Lead Manager Lead Manager	Aa2 Aa2 Aa2	AA+ AA+	NR NR NR	Multi Family Housing Multi Family Housing Multi Family Housing	
2/24/2021	NYC Housing Dev Corp NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth NYC Municipal Water Fin	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A -1 Multi-Family Housing Rev Bonds 2021 Series A -2 Wir & Sw 2nd Gen Reso Rev Bonds SeriesCSubser CC-183 Wir & Sw 2nd Gen Reso Rev Bonds SeriesC Subser CC-2 Wir & Sw 2nd Gen Reso Rev Bonds	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid	Co-Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1	AA+ AA+ AA+;AA+;AA+;AA+	NR NR NR AA+;AA+;AA+;AA+;AA	Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities	
2/24/2021	NYC Housing Dev Corp NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth Auth	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A -1 Multi-Family Housing Rev Bonds 2021 Series A -2 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-183 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-183	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid	Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1 Aa1	AA+ AA+ AA+;AA+;AA+;AA+	NR NR NR AA+;AA+;AA+;AA+;AA + AA+	Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities	
2/24/2021 2/24/2021 2/25/2021	NYC Housing Dev Corp NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth Contra Costa Co Public Fin Auth	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A -1 Multi-Family Housing Rev Bonds 2021 Series A -1 With Earnity Housing Rev Bonds 2021 Series A -2 With & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-1&3 With & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-1 With & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lesse Revenue Bonds 2021 Series A & B	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid	Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Sole Manager	Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1 Aa1 Aa2;Aa2	AA+ AA+ AA+:AA+:AA+:AA+ AA+ AA+ AA+ AA+:AA+	NR NR NR AA+;AA+;AA+;AA+;AA AA+ AA+ NR;NR	Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp	
2/24/2021 2/24/2021 2/25/2021 2/25/2021	NYC Housing Dev Corp NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth Ontra Costa Co Public Fin Auth Massachusetts Dev Finance Ago. New York New	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A -1 Multi-Family Housing Rev Bonds 2021 Series A -1 Multi-Family Housing Rev Bonds 2021 Series A -2 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-1&3 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-1 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lesse Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021)	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid	Co-Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Sole Manager Lead Manager	Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1 Aa1 Aa2;Aa2 Aa1	AA+	NR NR AA+;AA+;AA+;AA+;AA AA+ NR;NR NR	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021	NYC Housing Dev Corp NYC Municipal Water Fin Auth Water Fin Auth Water Fin Auth Massachusetts Dev Finance Agcy Regents of the University of California California	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A - 1 Multi-Family Housing Rev Bonds 2021 Series A - 1 Multi-Family Housing Rev Bonds 2021 Series A - 2 Wtr & Swr 2nd Gen Reso Rev Bonds Series C-3-2 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-18 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Utr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lesse Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid	Co-Manager Lead Manager	Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1 Aa1 Aa2;Aa2 Aa1 Aa3	AA+	NR NR AA+,AA+,AA+,AA+,AA AA+ AA+ NR;NR NR AA-	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth I NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth NYC Municipal Water Fin Auth I Massachusetts Dev Finance Agory Regents of the University of California Regents of the University of California	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: 1 Multi-Family Housing Rev Bonds 2021 Series A: 2 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-183 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-183 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lesse Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series R	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 739.05 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager	Aa2 Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1 Aa1 Aa2;Aa2 Aa1 Aa3 Aa3	AA+	NR NR AA+;AA+;AA+;AA+;AA AA+ AA+ NR;NR NR AA- AA- AA-	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Higher Education Higher Education Higher Education	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021	NYC Housing Dev Corp NYC Municipal Water Fin Auth Massachusetts Dev Financo Agcy Regents of the University of California	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A - 1 Multi-Family Housing Rev Bonds 2021 Series A - 1 Multi-Family Housing Rev Bonds 2021 Series A - 2 Wtr & Swr 2nd Gen Reso Rev Bonds Series C-3-2 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-18 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Utr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lesse Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid	Co-Manager Lead Manager	Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1 Aa1 Aa2;Aa2 Aa1 Aa3	AA+	NR NR AA+,AA+,AA+,AA+,AA AA+ AA+ NR;NR NR AA-	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 3/2/2021	NYC Housing Dev Corp NYC Municipal Water Fin Auth Contra Costa Co Public Fin Auth Fin Auth Auth Contra Costa Co Public Fin Auth Auth Contra Costa Co Public Fin Auth Auth Contra Costa Co Public Fin Auth Contra Costa Co Public Fin Auth Contra Costa Co Public Fin Auth Contra Costa Costa Costa Regents of the University of California Regents of the University of California Regents of the University of California	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: 1 Multi-Family Housing Rev Bonds 2021 Series A: 2 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-183 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-183 Wtr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lesse Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series R	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 739.05 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager	Aa2 Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1 Aa1 Aa2;Aa2 Aa1 Aa3 Aa3	AA+	NR NR AA+;AA+;AA+;AA+;AA AA+ AA+ NR;NR NR AA- AA- AA-	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Higher Education Higher Education Higher Education	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 3/2/2021	NYC Housing Dev Corp NYC Municipal Water Fin Auth Ontorial Water Fin Auth Massachusetts Dev Finance Agcy Regents of the University of California Regents of the University of California Regents of the University of California New York City-New York Texas Public Finance Auth	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: 2 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-18 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-18 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Utr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lesse Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series Q Limited Project Revenue Bonds 2022 Series	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1 Aa1 Aa2;Aa2 Aa1 Aa3 Aa3 Aa3	AA+	NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ AA+ NR;NR NR AA- AA- AA- AA-	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 3/2/2021 3/3/2021	NYC Housing Dev Corp NYC Municipal Water Fin Auth Massachusetts Dev Finance Agr) Contra Costa Co Public Fin Auth Massachusetts Dev Finance Agr) Contra Costa Co Public Fin Auth Auth Auth Auth Auth Auth Auth Auth	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: 2 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-183 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-183 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Utr & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lesse Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series Q Limited Project Revenue Bonds 2022 Series S General Obligation Bonds Ser F Subser F-2	212.00 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid 107.66 Competitive Bid	Co-Manager Lead Manager Co-Manager Co-Manager Sole Manager Sole Manager	Aa2 Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1 Aa1 Aa2;Aa2 Aa1 Aa3 Aa3 Aa3	AA+	NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ AA+ NR;NR NR AA- AA- AA- AA- AA- AA-	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 3/2/2021 3/3/2021 3/3/2021 3/4/2021	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth Massachusetts Dev Finance Agry Regents of the University of Certain Could for the University of Certain I New York City-New York I Texas Public Finance Auth (TPFA) New York City-New York	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: 2 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-18 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-18 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lesse Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series Q Limited Project Revenue Bonds 2022 Series S General Obligation Bonds Ser F Subser F-2 Lesse Revenue Bonds Series 2021	212.00 Negotiated Bid 94.94 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid 107.66 Competitive Bid 325.70 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Sde Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1 Aa1 Aa2;Aa2 Aa1 Aa3 Aa3 Aa3 Aa2 Aa1	AA+	NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ AA+ AA- AA- AA- AA- AA- AA- AA- A	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Government Buildings	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 3/2/2021 3/3/2021 3/3/2021 3/4/2021	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth Massachusetts Dev Finance Agry Regents of the University of California Regents of the University of California New York City-New York New York City-New York New York City-New York New York City-New York	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: 1 Multi-Family Housing Rev Bonds 2021 Series A: 2 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-18 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-18 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lease Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series C Limited Project Revenue Bonds 2022 Series S General Obligation Bonds Series F Subser F-2 Lease Revenue Bonds Series F Subser F-1 General Obligation Bonds Series F Subser F-1 General Obligation Bonds Series 1 General Obligation Bonds Series 1	212.00 Negotiated Bid 94.94 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 107.66 Competitive Bid 325.70 Negotiated Bid 900.00 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager Sole Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Aa2 Aa2 Aa2 Aa1;Aa1;Aa1;Aa1;Aa1;Aa1 Aa1 Aa2;Aa2 Aa1 Aa3 Aa3 Aa3 Aa2 Aa1 Aa2	AA+	NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ AA+ NR,NR NR AA- AA- AA- AA- AA- AA- AA- AA- AA- AA	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Government Buildings General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp	
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2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 3/2/2021 3/3/2021 3/4/2021 3/8/2021 3/8/2021	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth I Massachusetts Dev Finance Agor I Regents of the University of California Regents of the University of California I Regents of the University of California I New York City-New York I New York City-New York I New York City-New York I Indiana Finance Auth (TYPEA) I Indiana Finance Authority I New York City-New York I Massachusetts Dev Finance Agor	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-18 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Wir & Swr 2nd Gen Reso Rev Bonds Series CS-User CC-2 Lease Reverue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series Q Limited Project Revenue Bonds 2022 Series Singeneral Obligation Bonds Series F Subser F-2 Lease Revenue Bonds Series 2021 General Obligation Bonds Series F Subser F-1 General Obligation Bonds 2021 Series 1 Environmental Improvement Bonds Series 2021 General Obligation Bonds 2021 Series 2 and 3	212.00 Negotiated Bid 94.94 Nepotiated Bid 94.94 Nepotiated Bid 9.19 Nepotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 392.95 Nepotiated Bid 107.66 Competitive Bid 107.66 Competitive Bid 900.00 Negotiated Bid 900.00 Negotiated Bid 88.81 Negotiated Bid 88.81 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Lead Manager Lead Manager	Aa2 Aa2 Aa1:Aa1:Aa1:Aa1:Aa1:Aa1 Aa1 Aa1 Aa2:Aa2 Aa1 Aa3 Aa3 Aa3 Aa2 Aa1 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2	AA+	NR NR AA+,AA+,AA+,AA+,AA AA+ AA+ AA- AA- AA- AA- AA- AA- AA- A	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Government Buildings General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 3/2/2021 3/3/2021 3/4/2021 3/8/2021 3/9/2021	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth I Ochris Costa Co Public Fin I Massachusetts Dev Finance Agory Regents of the University of California Regents of the University of California New York City-New York I Texas Public Finance Auth (TPEA) I New York City-New York I Indiana Finance Authority I New York City-New York I Indiana Finance Authority I New York City-New York I Indiana Finance Authority I New York City-New York Massachusetts Dev Finance Agory I Massachusetts Dev	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Lease Revenue Bonds 2021 Series A & B Revenue Retfunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series R Revenue Bonds 2021 Series P Limited Project Revenue Bonds 2022 Series General Obligation Bonds Series F Subser F-2 Lease Revenue Bonds Series F Subser F-1 General Obligation Bonds Series F Subser F-1 General Obligation Bonds 2021 Series 2 2021 A General Obligation Bonds 2021 Series 2 and 3 Revenue Bonds Series I (2021) Revenue Bonds Series J (2021)	212.00 Negotiated Bid 94.94 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid 107.66 Competitive Bid 325.70 Negotiated Bid 900.00 Negotiated Bid 361.39 Negotiated Bid 88.81 Negotiated Bid 88.81 Negotiated Bid 259.35 Negotiated Bid 13.42 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Co-Manager Sole Manager Sole Manager Lead Manager Sole Manager Sole Manager Sole Manager Sole Manager Sole Manager Sole Manager	Aa2 Aa2 Aa1:Aa1:Aa1:Aa1:Aa1:Aa1 Aa1 Aa1 Aa2:Aa2 Aa1 Aa3 Aa3 Aa3 Aa2 Aa1 Aa1 Aa2 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2	AA+	NR NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ AA+ AA- AA- AA- AA- AA- AA- AA- A	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Government Buildings General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education Higher Education	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 3/2/2021 3/3/2021 3/4/2021 3/4/2021 3/9/2021 3/9/2021	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth I Contra Costa Co Public Fin Auth I Contra Costa Co Public Fin Auth I Contra Costa Co Public Fin Auth I Regents of the University I California I New York City-New York I Texas Public Finance Auth I Texas Public Finance Auth I Texas Public Finance Auth I New York City-New York I New York City-New York I Indiana Finance Authority I New York City-New York I Massachusetts Dev Finance Agry I Massachusetts Dev Finance Agry I Massachusetts Dev Finance Agry I California	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Lease Revenue Bonds 2021 Series A & B Revenue Retfunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series R Revenue Bonds 2021 Series P Limited Project Revenue Bonds 2022 Series General Obligation Bonds Series F Subser F-2 Lease Revenue Bonds Series F Subser F-1 General Obligation Bonds Series F Subser F-1 General Obligation Bonds 2021 Series 2 2021 A General Obligation Bonds 2021 Series 2 and 3 Revenue Bonds Series I (2021) Revenue Bonds Series J (2021) GO Various Purpose & Ref Bonds	212.00 Negotiated Bid 94.94 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid 411.71 Negotiated Bid 325.70 Negotiated Bid 900.00 Negotiated Bid 361.39 Negotiated Bid 88.81 Negotiated Bid 88.81 Negotiated Bid 13.42 Negotiated Bid 13.42 Negotiated Bid	Co-Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Lead Manager Co-Manager Sole Manager Co-Manager Sole Manager Lead Manager Sole Manager Co-Manager Lead Manager Co-Manager Lead Manager Sole Manager Co-Manager Sole Manager	Aa2 Aa2 Aa1:Aa1:Aa1:Aa1:Aa1 Aa1 Aa1 Aa2 Aa2 Aa3 Aa3 Aa3 Aa2 Aa1 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2	AA+	NR NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ AA+ AA- AA- AA- AA- AA- AA- AA- A	Multi Family Housing Multi Family Housing Multi Family Housing Multi Family Housing Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Government Buildings General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 3/3/2021 3/4/2021 3/4/2021 3/9/2021 3/1/2021 3/1/2021	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth I Contra Costa Co Public Fin Auth I Regents of the University of California I Regents of the University of California I New York City-New York I Texas Public Finance Auth I Massachusetts Dev Finance Auth I Indiana Finance Authority I New York City-New York I Indiana Finance Authority I New York City-New York I Indiana Finance Authority I Massachusetts Dev Finance Agoy I Massachusetts Dev Finance Agoy I California I California	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Lease Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series R Revenue Bonds 2021 Series P Limited Project Revenue Bonds 2022 Series General Obligation Bonds Series S Subser F-2 Lease Revenue Bonds Series F Subser F-1 General Obligation Bonds Series F Subser F-1 General Obligation Bonds 2021 Series 1 Environmental Improvement Bonds Series 2 2021 A General Obligation Bonds 2021 Series 2 and 3 Revenue Bonds Series I (2021) Revenue Bonds Series J (2021) GO Various Purpose & Ref Bonds GO Various Purpose Bonds	212.00 Negotiated Bid 94.94 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid 411.71 Negotiated Bid 325.70 Negotiated Bid 900.00 Negotiated Bid 361.39 Negotiated Bid 88.81 Negotiated Bid 88.81 Negotiated Bid 259.35 Negotiated Bid 13.42 Negotiated Bid 13.42 Negotiated Bid 17.71.06 Negotiated Bid	Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Aa1:Aa1:Aa1:Aa1:Aa1 Aa1 Aa1 Aa2 Aa2 Aa3 Aa3 Aa3 Aa2 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2	AA+	NR NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ AA+ AA- AA- AA- AA- AA- AA- AA- NR	Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Government Buildings General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education General Purpose/ Public Imp	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 3/3/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth Auth I NYC Municipal Water Fin Auth I Central Costal Co Public Fin Auth I Auth I Contral Costal Co Public Fin Auth I Contral Costal Co Public Fin Auth I Regents of the University of California I Repents of the University of California I New York City-New York I Texas Public Finance Auth I Indiana Finance Authority I Indiana Finance Authority I New York City-New York I Indiana Finance Authority I Massachusetts Dev Finance Ador I Massachusetts Dev Finance Agor I California I California I California I NYC Municipal Water Fin Auth I NYC Municipal Water Fin Auth	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Lease Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series R Revenue Bonds 2021 Series P Limited Project Revenue Bonds 2022 Series General Obligation Bonds Series F-9: Lease Revenue Bonds Series F Subser F-2 Lease Revenue Bonds Series F Subser F-1 General Obligation Bonds Series F Subser F-1 General Obligation Bonds 2021 Series 1 Environmental Improvement Bonds Series 2 2021 A General Obligation Bonds 2021 Series 2 and 3 Revenue Bonds Series J (2021) GO Various Purpose & Ref Bonds GO Various Purpose Bonds Municipal Wir Finance Auth Fiscal 2021 Ser DD	212.00 Negotiated Bid 94.94 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid 107.66 Competitive Bid 325.70 Negotiated Bid 900.00 Negotiated Bid 88.81 Negotiated Bid 88.81 Negotiated Bid 259.35 Negotiated Bid 13.42 Negotiated Bid 13.42 Negotiated Bid 11.71 Negotiated Bid	Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Aa1:Aa1:Aa1:Aa1:Aa1:Aa1 Aa1 Aa1 Aa2 Aa2 Aa1 Aa3 Aa3 Aa3 Aa2 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2	AA+	NR NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ AA+ AA- AA- AA- AA- AA- AA- AA- NR AA- AA- AA- AA- AA- AA- AA- AA- AA- AA	Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Government Buildings General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education General Purpose/ Public Imp Water & Sewer Facilities	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 3/3/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth I Massachusetts Dev Finance Agoy Regents of the University of California Regents of the University of California Regents of the University of California New York City-New York I Teas Public Finance Auth (TIPS) I New York City-New York I Indiana Finance Authority I Massachusetts Dev Finance Acoy I Massachusetts Dev Finance Agoy I California I California I California I NYC Municipal Water Fin Auth I Alaska Housing Finance I NYC Municipal Water Fin Auth I Alaska Housing Finance	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Lease Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series R Revenue Bonds 2021 Series P Limited Project Revenue Bonds 2022 Series General Obligation Bonds Series S Subser F-2 Lease Revenue Bonds Series F Subser F-1 General Obligation Bonds Series F Subser F-1 General Obligation Bonds 2021 Series 1 Environmental Improvement Bonds Series 2 2021 A General Obligation Bonds 2021 Series 2 and 3 Revenue Bonds Series I (2021) Revenue Bonds Series J (2021) GO Various Purpose & Ref Bonds GO Various Purpose Bonds	212.00 Negotiated Bid 94.94 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid 411.71 Negotiated Bid 325.70 Negotiated Bid 900.00 Negotiated Bid 361.39 Negotiated Bid 88.81 Negotiated Bid 88.81 Negotiated Bid 259.35 Negotiated Bid 13.42 Negotiated Bid 13.42 Negotiated Bid 17.71.06 Negotiated Bid	Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Aa1:Aa1:Aa1:Aa1:Aa1 Aa1 Aa1 Aa2 Aa2 Aa3 Aa3 Aa3 Aa2 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2	AA+	NR NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ AA+ AA- AA- AA- AA- AA- AA- AA- NR	Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Government Buildings General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education General Purpose/ Public Imp	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 3/3/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021 3/4/2021	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth I Massachusetts Dev Finance Agry Regents of the University of California Regents of the University of California Regents of the University of California New York City-New York I Texas Public Finance Auth (IPFA) I New York City-New York I Massachusetts Dev Finance Auth I Indiana Finance Authority I Massachusetts Dev Finance Agry I California I California I California I California I Alaska Housing Finance Corp Orlando Utilities	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Wir & Swr 2nd Gen Reso Rev Bonds Series C-9: Lease Revenue Bonds 2021 Series A & B Revenue Refunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series R Revenue Bonds 2021 Series P Limited Project Revenue Bonds 2022 Series General Obligation Bonds Series F-9: Lease Revenue Bonds Series F Subser F-2 Lease Revenue Bonds Series F Subser F-1 General Obligation Bonds Series F Subser F-1 General Obligation Bonds 2021 Series 1 Environmental Improvement Bonds Series 2 2021 A General Obligation Bonds 2021 Series 2 and 3 Revenue Bonds Series J (2021) GO Various Purpose & Ref Bonds GO Various Purpose Bonds Municipal Wir Finance Auth Fiscal 2021 Ser DD	212.00 Negotiated Bid 94.94 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid 107.66 Competitive Bid 325.70 Negotiated Bid 900.00 Negotiated Bid 88.81 Negotiated Bid 88.81 Negotiated Bid 259.35 Negotiated Bid 13.42 Negotiated Bid 13.42 Negotiated Bid 11.71 Negotiated Bid	Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Aa1:Aa1:Aa1:Aa1:Aa1:Aa1 Aa1 Aa1 Aa2 Aa2 Aa1 Aa3 Aa3 Aa3 Aa2 Aa1 Aa2 Aa1 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2	AA+	NR NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ AA+ AA- AA- AA- AA- AA- AA- AA- NR AA- AA- AA- AA- AA- AA- AA- AA- AA- AA	Multi Family Housing Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Government Buildings General Purpose/ Public Imp General Purpose/ Public Imp Higher Education Higher Education General Purpose/ Public Imp Water & Sewer Facilities	
2/24/2021 2/24/2021 2/25/2021 2/25/2021 2/25/2021 2/25/2021 3/3/2021 3/3/2021 3/4/20	I NYC Housing Dev Corp I NYC Municipal Water Fin Auth Massachusetts Dev Findens Agr) I California I Regents of the University of California I Reyents of the University of California I New York City-New York I Texas Public Finance Auth (TPFA) I New York City-New York I Indiana Finance Authority I New York City-New York I Indiana Finance Authority I Massachusetts Dev Finance Agroy California I California I California I NYC Municipal Water Fin Auth Auth I Alaska Housing Finance Corp	Multi-Family Housing Rev Bonds 2021 Series B Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Multi-Family Housing Rev Bonds 2021 Series A: Wir & Swr 2nd Gen Reso Rev Bonds Series C-Suber CO-18 Wir & Swr 2nd Gen Reso Rev Bonds Series CSuber CO-2 Wir & Swr 2nd Gen Reso Rev Bonds Series CSuber CO-2 Wir & Swr 2nd Gen Reso Rev Bonds Series CSuber CO-2 Lease Revenue Bonds 2021 Series A & B Revenue Berdunding Bonds Series T (2021) Revenue Bonds 2021 Series R Revenue Bonds 2021 Series P Limited Project Revenue Bonds 2022 Series General Obligation Bonds Series F Subser F-2 Lease Revenue Bonds Series F Subser F-1 General Obligation Bonds Series F Subser F-1 General Obligation Bonds 2021 Series 1 Environmental Improvement Bonds Series 2 2021 A General Obligation Bonds 2021 Series 2 and 3 Revenue Bonds Series J (2021) Revenue Bonds Series J (2021) GO Various Purpose & Ref Bonds GO Various Purpose Bonds Municipal Wir Finance Auth Fiscal 2021 Ser DO State Capital Project Bonds 2021 Series A II	212.00 Negotiated Bid 94.94 Negotiated Bid 94.94 Negotiated Bid 9.19 Negotiated Bid 403.26 Negotiated Bid 75.00 Negotiated Bid 75.00 Negotiated Bid 97.42 Negotiated Bid 20.56 Negotiated Bid 392.95 Negotiated Bid 411.71 Negotiated Bid 107.66 Competitive Bid 325.70 Negotiated Bid 900.00 Negotiated Bid 88.81 Negotiated Bid 88.81 Negotiated Bid 259.35 Negotiated Bid 13.42 Negotiated Bid 11.342 Negotiated Bid 11.342 Negotiated Bid 11.340 Negotiated Bid 11.341 Negotiated Bid 11.342 Negotiated Bid 11.343 Negotiated Bid 11.344 Negotiated Bid 11.345 Negotiated Bid 11.345 Negotiated Bid 11.346 Negotiated Bid 11.347 Negotiated Bid 11.348 Negotiated Bid 11.349 Negotiated Bid 11.349 Negotiated Bid 11.340 Negotiated Bid 11.340 Negotiated Bid	Co-Manager Lead Manager Co-Manager	Aa2 Aa2 Aa1:Aa1:Aa1:Aa1:Aa1:Aa1 Aa1 Aa1 Aa2:Aa2 Aa1 Aa3 Aa3 Aa3 Aa2 Aa1 Aa2 Aa1 Aa2 Aa2 Aa1 Aa2 Aa2 Aa2 Aa1 Aa2 Aa2 Aa2 Aa2 Aa1 Aa2 Aa2 Aa2 Aa2 Aa1 Aa2 Aa2 Aa2 Aa2 Aa1	AA+	NR NR NR AA+;AA+;AA+;AA+;AA+;AA AA+ NR;NR NR AA- AA- AA- AA- NR	Multi Family Housing Water & Sewer Facilities General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Government Buildings General Purpose/ Public Imp Pollution Control General Purpose/ Public Imp Higher Education Higher Education Higher Education General Purpose/ Public Imp Water & Sewer Facilities Single Family Housing	

	NYS Dorm Authority	State Personal Inc Tax Rev Bonds Series 2021 A	1,871.42 Negotiated Bid	Co-Manager	NR;NR;NR;NR	AA+;AA+;AA+	AA+;AA+;AA+;AA+	General Purpose/ Public Imp	
3/19/2021	NYS Dorm Authority	St Personal Income Tax Rev Bonds Series 2021 B	291.64 Negotiated Bid	Co-Manager	NR	AA+	AA+	General Purpose/ Public Imp	
3/19/2021	NYS Housing Fin- Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 231	96.78 Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
3/19/2021	NYS Housing Fin-	Homeowner Mortgage Rev Bonds Series 232	34.02 Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
3/23/2021	Mortgage Agcy Colorado Hsg & Fin Auth	Multi-Family Proj Class I Bonds 2021 Series	20.90 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
3/23/2021	(CHFA) Colorado Hsg & Fin Auth	A Multi-Family Proj Class I Bonds 2021 Series	8.23 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
3/24/2021	(CHFA) San Jose City-California	B Airport Revenue Ref Bonds Series 2021 C	294.02 Negotiated Bid	Co-Manager	A2;A2	A-;A-	A;A	Airports	
	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Ser F G Sub F-1 G-1	1,001.07 Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
3/25/2021	Triborough Bridge & Tunnel Auth	General Revenue Bonds Series 2021 A	280.00 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	AA-;AA-;AA-	Bridges	
3/25/2021	Triborough Bridge &	General Revenue Bonds Series 2021 A	120.00 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	AA-;AA-;AA-	Bridges	
3/25/2021		Revenue Bonds Series 2021 B	47.43 Negotiated Bid	Co-Manager	A2	A	A	General Acute Care Hospital	
3/25/2021	Auth Pennsylvania Econ Dev Fin	Revenue Bonds Series 2021 A	221.86 Negotiated Bid	Co-Manager	A2	A	A	General Acute Care Hospital	
3/25/2021	Auth Rhode Island Hsg & Mtg	Homeownership Opp Bonds Series 74	135.06 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Fin Corp Knoxville City-Tennessee	Wastewater System Rev Ref Bonds Series	190.82 Competitive Bid	Sole Manager	Aa2	AA+	NR	Water & Sewer Facilities	
	San Antonio City-Texas	2021 A Electric & Gas Sys Jr Ln Ref Bond Series	330.70 Negotiated Bid	Lead Manager	Aa2	A+	AA-	Combined Utilities	
	· ·	2021 A					NR.		
	University of Pittsburgh Wyoming Community Dev	Pitt Asset Notes Series of 2021 Housing Revenue Bonds 2021 Series 1	181.27 Negotiated Bid 53.73 Negotiated Bid	Lead Manager Co-Manager	Aa1 Aa1	AA+ AA+	NR NR	Higher Education Single Family Housing	
4/1/2021	Authority Massachusetts Dev	Var Rate Demand Revenue Bonds Series I	17.00 Private Bid	Sole	NR	NR	NR	Higher Education	
	Finance Agcy	2021		Manager;Remarketing Agent					
4/1/2021	Texas Dept of Hsg & Comm Affairs	Residential Mtg Rev Ref Bonds Series 2021 B	61.37 Negotiated Bid	Co-Manager	Aaa	AA+	NR	Single Family Housing	
4/1/2021	Texas Dept of Hsg &	Residential Mortgage Rev Bonds Series	100.00 Negotiated Bid	Co-Manager	Aaa	AA+	NR	Single Family Housing	
4/7/2021	Comm Affairs San Francisco City & Co	2021 A Revenue Refunding Bonds 2nd Series 2021	222.81 Negotiated Bid	Co-Manager	A1	A	A+	Airports	
	Airport Comm San Francisco City & Co	C Revenue Refunding Bonds 2nd Series 2021	195.23 Negotiated Bid	Co-Manager	A1	A	A+	Airports	
	Airport Comm San Francisco City & Co	A Revenue Refunding Bonds 2nd Series 2021	129.07 Negotiated Bid	Co-Manager	A1	A	A+	Airports	
	Airport Comm	В							
	Univ of Texas Sys Bd of Regents	Revenue Financing System Bonds Series 2021 A	381.87 Negotiated Bid	Lead Manager	Aaa	AAA	AAA	Higher Education	
	Central Florida Expressway Au	Sr Lien Refunding Rev Bonds Series 2021	548.18 Negotiated Bid	Co-Manager	NR	NR	NR	Toll Roads, Highways & Streets	
4/8/2021	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds 2021 Series B	50.20 Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
4/8/2021	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds 2021 Series A-1	544.77 Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
4/8/2021	Massachusetts Bay	Subordinated Sales Tax Bonds 2021 Series	56.27 Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
4/8/2021	Transport Auth Delaware Municipal	A-2 Electric Revenue Ref Bonds Series 2021	35.94 Negotiated Bid	Sole Manager	A1	A	NR	Public Power	
4/13/2021	Electric Corp Pennsylvania Econ Dev Fin	Revenue Bonds Series of 2021	827.58 Negotiated Bid	Lead Manager	Aa3	NR	A+	Higher Education	
4/14/2021	Auth Maine State Housing	Mortgage Purchase Bonds 2021 Series B	40.00 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Authority	Grant & RANs 2021 Series A	172.86 Negotiated Bid	Co-Manager	A2	NR	A+		
			<u> </u>					Toll Roads, Highways & Streets	
	California	Var Purp GO Refunding Bonds	1,076.21 Negotiated Bid	Co-Manager	Aa2;Aa2	AA-;AA-	AA;AA	General Purpose/ Public Imp	
4/20/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Lien Bonds Subseries 2021 A-1	443.48 Negotiated Bid	Co-Manager	NR;NR	AA+;AA+	AA+;AA+	Mass Transportation	
4/20/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Lien Bonds Subseries 2021 A-2	249.36 Negotiated Bid	Co-Manager	NR;NR;NR	AA+;AA+;AA+	AA+;AA+;AA+	Mass Transportation	
4/20/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Lien Bonds Subseries 2021 A-3	173.92 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	
4/20/2021	Triborough Bridge &	Payroll Mobility Tx Sr Lien Bonds Subseries	74.54 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	
4/20/2021	Tunnel Auth Triborough Bridge &	2021 A-3 Payroll Mobility Tx Sr Lien Bonds Subseries	106.87 Negotiated Bid	Co-Manager	NR;NR;NR	AA+;AA+;AA+	AA+;AA+;AA+	Mass Transportation	
4/20/2021	Tunnel Auth Triborough Bridge &	2021 A-2 Payroll Mobility Tx Sr Lien Bonds Subseries	190.06 Negotiated Bid	Co-Manager	NR;NR	AA+;AA+	AA+;AA+	Mass Transportation	
	Tunnel Auth	2021 A-1 Revenue Bonds Series 2021 A-1	7.06 Negotiated Bid	Co-Manager	A1	A	NR	Public Power	
	Inc	Revenue Bonds Series 2021 A-2	91.19 Negotiated Bid	Co-Manager	A1	A	NR	Public Power	
	Inc Colorado Hsq & Fin Auth								
	(CHFA)	Single Family Mortgage Bonds 2021 Series D	3.79 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2021 Series E	27.21 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
4/21/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2021 Series F	54.00 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
4/21/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2021 Ser B Subser B4	47.46 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
4/21/2021	Connecticut Housing & Fin	Housing Mortgage Fin Prog Bonds 2021 Ser	132.83 Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa	AAA;AAA;AAA	NR;NR;NR	Single Family Housing	
4/21/2021	Auth (CHFA) Connecticut Housing & Fin	B Sub B1-3 Housing Mortgage Fin Prog Bonds 2021 Ser	17.29 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
4/22/2021	Auth (CHFA) Illinois Finance Authority	B Sub B1-5 Revenue Bonds Series 2021 A	456.31 Negotiated Bid	Lead Manager	NR;NR;NR	AA-;AA-;AA-	AA-;AA-;AA-	General Acute Care Hospital	
	Illinois Finance Authority	Revenue Bonds Series 2021 B	37.03 Negotiated Bid	Lead	NR	AA-	AA-	General Acute Care Hospital	
	and a summer of	22	aagoninou Did	Manager;Remarketing Agent				a o i ioopica	
4/22/2021	Los Angeles USD	GO Unitd Ad Val Prop Tx Ref Bonds 2021	196.31 Competitive Bid	Sole Manager	Aa3	NR	AA+	Primary & Secondary	
4/23/2021	Connecticut	Series A Special Tax Oblig & Ref Bonds 2021 Series	886.70 Negotiated Bid	Co-Manager	Aa3;Aa3	A+;A+	A+;A+	Education Mass Transportation	
4/23/2021	Connecticut	A & B Special Tax Oblig Ref Bonds 2021 Series C	144.19 Negotiated Bid	Co-Manager	Aa3	A+	A+	Mass Transportation	
		Sr Ln Dedicated Tx Rev Ref Bonds Series	53.50 Negotiated Bid	Co-Manager	A3	A+	AA	Civic & Convention Centers	
	Sports Au Miami University	2021 A General Receipts Rev & Ref Bonds Series	75.93 Negotiated Bid	Lead Manager	Aa3	NR	NR	Primary & Secondary	
		2021 A						Education	
	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 2021	71.23 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2021 Series C-1	9.10 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2021 Series C-2	5.10 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
5/11/2021	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2021 Series D	1.90 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
5/13/2021	NYS Dorm Authority	Sch Dt Rev Bond Fin Prog Bonds Series 2021 A-C	335.23 Negotiated Bid	Co-Manager	A1;NR;Aa3;NR	NR;NR;NR;NR	AA-;AA-;AA-	Primary & Secondary Education	
5/14/2021	Washington Convention &	Senior Lien Dedicated Tax Bonds Series	70.36 Negotiated Bid	Co-Manager	Aa3	A+	NR	Civic & Convention Centers	
5/14/2021	Sports Au Washington Convention &	2021 B Senior Lien Didcated Tax Bonds Series	29.36 Negotiated Bid	Co-Manager	Aa3	A+	NR	Civic & Convention Centers	
	Sports Au Illinois Finance Authority	2021 C Revenue Bonds Series 2021 C	50.00 Negotiated Bid	Sole	NR	AA+	AA+	General Acute Care Hospital	
				Manager;Remarketing Agent;Credit					
E/40/200	Government of Comm	Business Privilege Ty Det Boards Andre	19 07 Monatics of Put	Enhancer	Po1	ND	ND	General Purpose/ Dublic Inc.	
	Government of Guam	Business Privilege Tx Ref Bonds Series 2021 E	19.07 Negotiated Bid	Co-Manager	Ba1	NR	NR	General Purpose/ Public Imp	
	California Municipal Fin Auth	Student Housing Revenue Bonds Series 2021	277.43 Negotiated Bid	Co-Manager	Baa3	NR	NR	Primary & Secondary Education	
5/19/2021	West Virginia University Bd of Gov	Improvement Revenue Bonds 2021 Series A	25.67 Negotiated Bid	Lead Manager	Aa3	NR	AA-	Higher Education	
5/19/2021		Improvement Revenue Bonds 2021 Series B	45.01 Negotiated Bid	Lead Manager	Aa3	NR	AA-	Higher Education	
						A :	AA-	General Purpose/ Public Imp	
5/20/2021	Connecticut	GO Refunding Bonds 2021 Series D	221.26 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Fulpose/ Fublic Imp	

5/20/2021	Connecticut	General Obligation Bonds 2021 Series B-1	15.00 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
		GO Refunding Bonds 2021 Series C-1	5.60 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
	Connecticut	General Obligation Bonds 2021 Series A-2	36.95 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
		General Obligation Bonds 2021 Series A-2	24.03 Negotiated Bid	Co-Manager				General Purpose/ Public Imp	
					Aa3	A+	AA-		
	Connecticut	General Obligation Bonds 2021 Series A-4	33.76 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
	Connecticut	General Obligation Bonds 2021 Series B-2	285.00 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
		GO Refunding Bonds 2021 Series C-2	72.30 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
5/20/2021	Connecticut	GO Refunding Bonds 2021 Series C-3	2.10 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
5/20/2021	Connecticut	GO Refunding Bonds 2021 Series C-4	51.22 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
5/20/2021	Connecticut	GO Refunding Bonds 2021 Series C-5	38.05 Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
		Revenue Bonds Series 2021 A	90.93 Negotiated Bid	Sole Manager	A2	A	NR	Higher Education	
5/20/2021	Development Corp Hempstead Local	Revenue Bonds Series 2021 B	12.32 Negotiated Bid	Sole Manager	A2	A	NR	Higher Education	
5/20/2021	Development Corp Pennsylvania Housing Fin	Single Family Mortgage Rev Bonds Series	136.68 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
	Agcy (PHFA)	2021-135A Single Family Mortgage Rev Bonds Series	38.90 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
	Agcy (PHFA)	2021-135B			Aa1	AA	NR		
	Corp	University Facilities Prog Bonds Series 2021 A	266.47 Negotiated Bid	Co-Manager				Higher Education	
	Corp	University Facilities Prog Bonds Series 2021 B	89.41 Negotiated Bid	Co-Manager	Aa1	AA	NR	Higher Education	
5/27/2021	Garland City-Texas	GO Commercial Paper Notes Series 2021	50.00 Negotiated Bid	Sole Manager	NR	NR	NR	General Purpose/ Public Imp	
	Santa Clara Co (Los Altos) SD	General Obligation BANs 2021 Series	79.00 Negotiated Bid	Co-Manager	NR	NR	NR	Primary & Secondary Education	
6/2/2021	Spokane Public Facilities	Sales & Lodging Tax Ref Bonds Series 2021 A & B	121.34 Negotiated Bid	Sole Manager	Aa1;Aa1	AAA;AAA	NR;NR	General Purpose/ Public Imp	
		Utility System Revenue Ref Bonds Series 2021 C	19.69 Negotiated Bid	Lead Manager	Aa2	AA	AA	Combined Utilities	
6/4/2021	Michigan St Hsg Dev Au	Rental Housing Revenue Bonds 2021	247.67 Negotiated Bid	Co-Manager	NR	AA	NR	Single Family Housing	
6/4/2021		Series A Rental Housing Revenue Bonds 2021	73.42 Negotiated Bid	Co-Manager	NR	AA	NR	Single Family Housing	
	(MSHDA) Houston City-Texas	Series B Airport Sys Sub Ln Rev Ref Bonds Series	286.01 Negotiated Bid	Co-Manager	A1	NR	NR	Airports	
		2021 A Revenue & Refunding Rev Bonds Series	81.93 Negotiated Bid	Sole Manager	Baa1	BBB	NR	Higher Education	
	(LPFA)	2021	37.82 Negotiated Bid	Sole Manager				•	
	University	General Revenue Bonds Series 2021	•		Aa3	A+	NR	Higher Education	
	Fund	Revenue Bonds 2021 Series B	118.41 Private Bid	Sole Manager	NR;NR;NR	NR;NR;NR	NR;NR;NR	Primary & Secondary Education	
	Piedmont Municipal Power Agency	Electric Revenue Ref Bonds Series 2021 A	55.37 Negotiated Bid	Co-Manager	A3	A-	A-	Public Power	
6/9/2021	Snohomish Co Pub Utility	Electric System Revenue Bonds Series 2021 A	78.69 Negotiated Bid	Co-Manager	Aa2	NR	AA-	Public Power	
6/9/2021	Illinois Housing Dev	Revenue Bonds 2021 Series C	19.28 Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
6/9/2021	Authority Illinois Housing Dev	Revenue Bonds 2021 Series B	125.00 Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
6/9/2021		Housing Bonds 2021 Series A-1	50.66 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	
	Fin Agcy Massachusetts Housing	Housing Bonds 2021 Series A-2	42.60 Negotiated Bid	Co-Manager	Aa2	AA	NR	Single Family Housing	
	Fin Agcy	Refunding Revenue Bonds Series 2021 A	74.90 Negotiated Bid	Co-Manager	Aa2	AA-	NR	Water & Sewer Facilities	
	Water Dt	Commonwealth Trans Fund Rev Bonds	187.29 Negotiated Bid	Co-Manager	Aa1	AA+	AAA	Mass Transportation	
		2021 Series A							
		Commonwealth Trans Fund Rev Bonds 2021 Series B	162.20 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Mass Transportation	
		Commonwealth Trans Fund Rev Bonds 2021 Series B	50.52 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Mass Transportation	
6/10/2021		Commonwealth Trans Fund Rev Bonds 2021 Series A	289.36 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Mass Transportation	
6/10/2021		Power System Revenue Bonds 2021 Series B	438.42 Negotiated Bid	Co-Manager	Aa2	NR	AA-	Public Power	
6/15/2021	Massachusetts Dev Finance Agcy	Revenue Bonds Series V (2021)	101.96 Negotiated Bid	Sole Manager	Aa3	AA-	NR	Higher Education	
6/15/2021	University of South	Higher Education Revenue Bonds Series	169.78 Negotiated Bid	Sole Manager	Aa2	NR	AA	Higher Education	
6/15/2021	University of South	2021 A Higher Education Revenue Bonds Series	10.27 Negotiated Bid	Sole Manager	Aa2	NR	AA	Higher Education	
6/16/2021	Grand Traverse Co Hosp	2021 B Revenue & Refunding Bonds Series 2021	100.27 Negotiated Bid	Sole Manager	A1	NR	AA	General Acute Care Hospital	
	Fin Auth NYS Dorm Authority	State Personal Income Tax Bonds Series	1,825.62 Negotiated Bid	Co-Manager	NR	AA+	AA+	General Purpose/ Public Imp	
		2021 C State Personal Income Tax Bonds Series	32.17 Negotiated Bid	Co-Manager	NR	AA+	AA+	General Purpose/ Public Imp	
		2021 D							
		Multi-Family Housing Rev Bonds Series 2021 F-1	258.31 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
		Multi-Family Housing Rev Bonds Series 2021 F-2	241.90 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
6/16/2021		Multi-Family Housing Rev Bonds Series 2021 F-3	100.00 Negotiated Bid	Sole Manager;Remarketing	Aa2	AA+	NR	Multi Family Housing	
6/17/2021	New York Transportation	Special Facility Rev Bonds Series 2021	150.06 Negotiated Bid	Agent Co-Manager	NR	NR	NR	Airports	
	Development Corporation	, ,	557.41 Negotiated Bid						
6/17/2021	Port of Seattle-Washington			Lead Manager	A1;A1;Aa2	A+;A+;AA-	AA-;AA-;AA	Airports	
		Revenue & Refunding Bonds Series 2021 & C							
6/17/2021		C Revenue Bonds Series 2021 D	41.40 Negotiated Bid	Lead Manager	A1	A+	AA-	Airports	
	Port of Seattle-Washington Port of Seattle-Washington	C		Lead Manager Lead Manager	A1 A1;A1	A+ A+;A+	AA-;AA-	Airports Airports	
	Port of Seattle-Washington Port of Seattle-Washington	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A	41.40 Negotiated Bid						
6/17/2021 6/22/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TANS Series 2021 Electric Revenue Refunding Bonds 2021	41.40 Negotiated Bid 195.79 Negotiated Bid	Lead Manager	A1;A1	A+;A+	AA-;AA-	Airports	
6/17/2021 6/22/2021 6/23/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund	C Revenue Bonds Series 2021 D Revenue & Returding Bonds Series 2021 A & B TANE Series 2021 Electric Revenue Retunding Bonds 2021 Series 1 United Obligation Revenue Bonds Series	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid	Lead Manager Lead Manager	A1;A1 NR	A+;A+ NR	AA-;AA- NR	Airports General Purpose/ Public Imp	
6/17/2021 6/22/2021 6/23/2021 6/23/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida	C Revenue Bonds Series 2021 D Revenue & Returding Bonds Series 2021 A & B TANE Series 2021 Electric Revenue Retunding Bonds 2021 Series 1 United Obligation Revenue Bonds Series 2021 A Sub Wit & Swr System Rev Bonds Series	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid	Lead Manager Lead Manager Co-Manager	A1;A1 NR NR	A+;A+ NR AA	AA-;AA- NR AA	Airports General Purpose/ Public Imp Public Power	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/24/2021 6/29/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticut Hith & Ed	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TAN's Series 2021 Series 1 Series I Limited Obligation Revenue Bonds Series 2021 A	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager	A1;A1 NR NR Aa2	A+;A+ NR AA NR	AA-;AA- NR AA AA-	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/24/2021 6/29/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Floridad Connecticut Hith & Ed Sacs Auth (CHEFA)	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TAN's Series 2021 Series 1 Limited Obligation Revenue Bonds Series 2021 A Sub Wir & Swr System Rev Bonds Series 2021 A	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager	A1;A1 NR NR Aa2 A1	A+.A+ NR AA NR A+ A+	AA-;AA- NR AA AA- NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/24/2021 6/29/2021 6/29/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connectiout Hith & Ed Facs Auth (CHEFA) Seattle City-Washington	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TANS Series 2021 Electric Revenue Refunding Bonds 2021 Series 1 Cobligation Revenue Bonds Series 20214 Sub Wit & Swr System Rev Bonds Series 2021 Revenue Bonds Series S Mun Light & Fower Imp & Ref Bond 2021 Series A	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid	Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager	A1;A1 NR NR Aa2 A1	A+.A+ NR AA NR A+ A+	AA-:AA- NR AA AA- NR NR NR:NR:NR:NR:NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/24/2021 6/29/2021 6/29/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticut Hith & Ed Facs Auth (CHEFA) Seattle City-Washington Toxas Municipal Power Agency	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TANS Series 2021 Electric Revenue Refunding Bonds 2021 Series I Lumbed Obligation Revenue Bonds Series Sub Wir & Swr System Rev Bonds Series Sub Wir & Swr System Rev Bonds Series Revenue Bonds Series S Muni Light & Power Imp & Ref Bond 2021 Transmission Sys Rev Ref Bonds Series 2021	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid 192.51 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager Sole Manager Co-Manager	A1;A1 NR NR Aa2 A1 A2;Aa2;Aa2;Aa2;Aa2;Aa2	A+;A+ NR AA NR A+ A+ A+ AA;AA;AA;AA;AA	AA-;AA- NR AA AA- NR NR NR NR NR:NR;NR;NR;NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power Public Power	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/24/2021 6/29/2021 6/29/2021 7/1/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticut Hith & Ed Facs Auth (CHEFA) Seattle City-Washington Toxas Municipal Power Agency NYS Housing Fin- Mortgage Agoy	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TANS Series 2021 Electric Revenue Refunding Bonds 2021 Series 1 Electric Revenue Refunding Bonds 2021 Series 1 Z021 Series 1 Z021 Sub Wir & Swr System Rev Bonds Series 2021 Revenue Bonds Series S Muni Light & Power Imp & Ref Bond 2021 Transmission Sys Rev Ref Bonds Series 2021 Homeowner Mortgage Rev Bonds Series 2021	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid 192.51 Negotiated Bid 149.77 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Sole Manager Lead Manager Lead Manager	A1;A1 NR NR Aa2 A1 A2;Aa2;Aa2;Aa2;Aa2;Aa2 A1 Aa1	A+;A+ NR AA NR A+ A+ A+ AA;AA;AA;AA;AA	AA-AA- NR AA AA- NR NR NR NR NR NR NR NR NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power Public Power Single Family Housing	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/29/2021 6/29/2021 6/29/2021 7/1/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticul Hith & Ed Face Auth (CHEFA) Seattle City-Washington Toxas Municipal Power Agency NYS Housing Fin- Mortgage Agry	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TANS Series 2021 Electric Revenue Refunding Bonds 2021 Series I Limited Obligation Revenue Bonds Series 2021 A Sub Wir & Swr System Rev Bonds Series 2021 A Sub Wir & Swr System Rev Bonds Series 2021 Muni Light & Fower Imp & Ref Bond 2021 Series A Transmission Sys Rev Ref Bonds Series 2021 Homeowner Mortgage Rev Bonds Series 233 Homeowner Mortgage Rev Bonds Series 235	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid 192.51 Negotiated Bid 149.77 Negotiated Bid 67.09 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager Sole Manager Sole Manager Lead Manager Lead Manager Lead Manager	A1;A1 NR NR Aa2 A1 A2 Aa2;Aa2;Aa2;Aa2;Aa2;Aa2 A1 Aa1	A+;A+ NR AA NR A+ A+ A+ AA;AA;AA;AA;AA NR NR NR	AA-,AA- NR AA- NR NR NR NR NR NR NRNR,NR,NR,NR NR NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power Public Power Single Family Housing Single Family Housing	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/24/2021 6/29/2021 6/29/2021 7/1/2021 7/1/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticut Hith & Ed Facs Auth (CHEFA) Scattle City-Washington Toxas Municipal Power Agency NYS Housing Fin- Mortgape Agry	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TANS Series 2021 Electric Revenue Refunding Bonds 2021 Series I Limited Obligation Revenue Bonds Series 2021 A Sub Wir & Swr. System Rev Bonds Series 2021 A Sub Wir & Swr. System Rev Bonds Series 2021 Muni Light & Power Imp & Ref Bond 2021 Series A Transmission Sys Rev Ref Bonds Series 2021 Homeowner Mortgage Rev Bonds Series 23 Homeowner Mortgage Rev Bonds Series 255 Homeowner Mortgage Rev Bonds Series 257	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid 192.51 Negotiated Bid 149.77 Negotiated Bid 45.87 Negotiated Bid 45.87 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager Sole Manager Sole Manager Lead Manager Lead Manager Lead Manager Lead Manager	A1;A1 NR NR Aa2 A1 A2 Aa2;Aa2;Aa2;Aa2;Aa2 A1 Aa1 Aa1	A+;A+ NR AA NR A+ A+ A+ AA:AAAAA;AA;AA NR NR NR NR NR	AA-,AA- NR AA- NR NR NR NR NR NR NR NR NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power Public Power Single Family Housing Single Family Housing Single Family Housing	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/24/2021 6/29/2021 6/29/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticut Hith & Ed Facs Auth (CHEFA) Seattle City-Washington Texas Municipal Power Agency NYS Housing Fin- Mortagae Agor NYC Municipal Water Fin	C Revenue Bonds Series 2021 D Revenue & Returnding Bonds Series 2021 A & B TANE Series 2021 Electric Revenue Retunding Bonds 2021 Series 1 Limited Obligation Revenue Bonds Series 2021 A Sub Witr & Swr System Rev Bonds Series 2021 A Sub Witr & Swr System Rev Bonds Series 2021 Revenue Bonds Series S Muni Light & Power Imp & Ref Bond 2021 Series A Transmission Sys Rev Ref Bonds Series 2021 Homocowner Mortgage Rev Bonds Series 2021 Homocowner Mortgage Rev Bonds Series 233 Homocowner Mortgage Rev Bonds Series 235 Homocowner Mortgage Rev Bonds Series 235	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid 192.51 Negotiated Bid 149.77 Negotiated Bid 67.09 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager Sole Manager Sole Manager Lead Manager Lead Manager Lead Manager	A1;A1 NR NR Aa2 A1 A2 Aa2;Aa2;Aa2;Aa2;Aa2;Aa2 A1 Aa1	A+;A+ NR AA NR A+ A+ A+ AA;AA;AA;AA;AA NR NR NR	AA-,AA- NR AA- NR NR NR NR NR NR NRNR,NR,NR,NR NR NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power Public Power Single Family Housing Single Family Housing	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/29/2021 6/29/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticut Hith & Ed Facs Auth (CHEFA) Seattle City-Washington Texas Municipal Power Agency NYS Housing Fin- Mortgage Agor NYC Municipal Water Fin Auth	C Revenue Bonds Series 2021 D Revenue & Returnding Bonds Series 2021 A & B TANS Series 2021 Electric Revenue Refunding Bonds 2021 Series 1 Limited Obligation Revenue Bonds Series 2021 A Sories 1 Sub Wirt & Swr System Rev Bonds Series 2021 A Series 1 Revenue Bonds Series S Muni Light & Fower Imp & Ref Bond 2021 Series A Transmission Sys Rev Ref Bonds Series 2021 Homocowner Mortgage Rev Bonds Series 2021 Homocowner Mortgage Rev Bonds Series 203 Homocowner Mortgage Rev Bonds Series 233 Homocowner Mortgage Rev Bonds Series 235 Wirt & Swr Sys 2nd Gen Res Bonds Subseries AA-1 Wirt & Swr Sys 2nd Gen Res Bonds Subseries AA-1	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid 192.51 Negotiated Bid 149.77 Negotiated Bid 45.87 Negotiated Bid 45.87 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager Sole Manager Sole Manager Lead Manager Lead Manager Lead Manager Lead Manager	A1;A1 NR NR Aa2 A1 A2 Aa2;Aa2;Aa2;Aa2;Aa2 A1 Aa1 Aa1	A+;A+ NR AA NR A+ A+ A+ AA:AAAAA;AA;AA NR NR NR NR NR	AA-,AA- NR AA- NR NR NR NR NR NR NR NR NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power Public Power Single Family Housing Single Family Housing Single Family Housing	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/23/2021 6/29/2021 6/29/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticut Hith & Ed Facs Auth (CHEFA) Seattle City-Washington Texas Municipal Power Agency NYS Housing Fin- Mortgage Agoy NYS Housing Fin- Mortgage Agor NYS Mouriapiel Water Fin Auth NYC Municipal Water Fin Auth Miami-Dade Co-Florida	C Revenue Bonds Series 2021 D Revenue & Returnding Bonds Series 2021 A & B TANE Series 2021 Electric Revenue Retunding Bonds 2021 Series 1 Limited Obligation Revenue Bonds Series 2021 A Sub Witr & Swr System Rev Bonds Series 2021 A Sub Witr & Swr System Rev Bonds Series 2021 Revenue Bonds Series S Muni Light & Power Imp & Ref Bond 2021 Series A Transmission Sys Rev Ref Bonds Series 2021 Homocowner Mortgage Rev Bonds Series 2021 Homocowner Mortgage Rev Bonds Series 233 Witr & Swr Sys 2nd Gen Res Bonds Subseries AA-1 Witr & Swr Sys 2nd Gen Res Bonds Subseries AA-2 Subseries AA-2 Subseries AA-2 Subseries AA-2 Cap Asset Aqui Spec Oblig Bonds Series	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid 192.51 Negotiated Bid 149.77 Negotiated Bid 45.87 Negotiated Bid 45.87 Negotiated Bid 400.00 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager Sole Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager	A1;A1 NR NR Aa2 A1 A2 Aa2;Aa2;Aa2;Aa2;Aa2 A1 Aa1 Aa1 Aa1 Aa1 Aa1	A+;A+ NR AA NR A+ A+ A+ AA;AA;AA;AA;AA NR NR NR NR NR NR AA+	AA-,AA- NR AA- NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power Public Power Single Family Housing Single Family Housing Single Family Housing Water & Sewer Facilities	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/24/2021 6/29/2021 6/29/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticut Hith & Ed Facs Auth (CHEFA) Seattle City-Washington Texas Municipal Power Agency NYS Housing Fin- Mortgage Agor NYS Mousing Fin- Mortgage Agor NYS Mousing Fin- Mortgage Co-Florida California State Univ	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TANS Series 2021 Electric Revenue Refunding Bonds 2021 Electric Revenue Refunding Bonds 2021 Series I Z021 A Sub Wir & Sw. System Rev Bonds Series 2021 Sub Wir & Sw. System Rev Bonds Series 2021 Revenue Bonds Series S Muni Light & Power Imp & Ref Bond 2021 Series A Transmission Sys Rev Ref Bonds Series 2021 Revenue Bonds Series S Word Sys Rev Ref Bonds Series 2021 Revenue Bonds Series S Revenue Bonds Series S Rev Sys 2nd Gen Res Bonds Series 2025 Wir & Swr Sys 2nd Gen Res Bonds Subberies AA-1 Wir & Swr Sys 2nd Gen Res Bonds Subberies AA-1 Wir & Swr Sys 2nd Gen Res Bonds Subberies AA-1 Wir & Swr Sys 2nd Gen Res Bonds Subberies AA-1 Wir & Swr Sys 2nd Gen Res Bonds Subberies AA-1	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid 192.51 Negotiated Bid 149.77 Negotiated Bid 45.87 Negotiated Bid 400.00 Negotiated Bid 50.00 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Sole Manager Sole Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager	A1;A1 NR NR Aa2 A1 A2 A2:Aa2;Aa2;Aa2;Aa2;Aa2 A1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1	A+;A+ NR AA NR A+ A+ A+ AA,AA,AA,AA,AA NR NR NR NR NR AA+ AA+ AA+ AA+	AA-,AA- NR AA AA- NR NR NR NR NR NR,NR,NR,NR,NR NR NR NR NR NR AA+ AA+	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power Public Power Single Family Housing Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/23/2021 6/29/2021 6/29/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021 7/18/2021 7/8/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticut Hith & Ed Facs Auth (CHEFA) Scattle City-Washington Toxas Muricipal Power Agency NYS Housing Fin- Mortagae Agry NYS Municipal Water Fin Auth NYC Municipal Water Fin Auth Miami-Dade Co-Florida	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TANS Series 2021 Electric Revenue Refunding Bonds 2021 Series I Limited Obligation Revenue Bonds Series 2021 A Sub Wir & Swr System Rev Bonds Series 2021 A Sub Wir & Swr System Rev Bonds Series 2021 A Revenue Bonds Series S Muni Light & Power Imp & Ref Bonds Series 2021 Series A Terremous Bonds Series S Revenue Bonds Series S Huni Light & Power Imp & Ref Bonds Series 2021 Series A Terremous Bonds Series S Terremous Bonds Series S Terremous Bonds Series 2021 Terremous Bonds Series 2021 Terremous Bonds Series 203 Terremous Bonds Series 2021 A	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid 192.51 Negotiated Bid 149.77 Negotiated Bid 45.87 Negotiated Bid 45.87 Negotiated Bid 50.00 Negotiated Bid 50.00 Negotiated Bid 81.33 Competitive Bid	Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Sole Manager Lead Manager Sole Manager Lead Manager Sole Manager Sole Manager	A1;A1 NR NR Aa2 A1 A2 A2:Aa2;Aa2;Aa2;Aa2;Aa2 A1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1	A+;A+ NR AA NR A+ A+ A+ AA;AA;AA;AA;AA NR NR NR NR AA	AA-,AA- NR AA- NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power Public Power Single Family Housing Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp	
6/17/2021 6/22/2021 6/23/2021 6/23/2021 6/24/2021 6/29/2021 6/29/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021 7/1/2021 7/8/2021 7/8/2021	Port of Seattle-Washington Port of Seattle-Washington Idaho Sacramento MUD (SMUD) Michigan Strategic Fund Miami-Dade Co-Florida Connecticut Hith & Ed Facs Auth (CHEFA) Scattle City-Washington Texas Municipal Power Agercy NYS Housing Fin- Mortagae Ago; NYS Housing Fin- Mortagae Ago; NYS Municipal Water Fin Auth NYC Municipal Water Fin Auth Miami-Dade Co-Florida California State Univ Trustees	C Revenue Bonds Series 2021 D Revenue & Refunding Bonds Series 2021 A & B TANS Series 2021 Electric Revenue Refunding Bonds 2021 Series I Limited Obligation Revenue Bonds Series 2021 A Sub Wir & Swr System Rev Bonds Series 2021 A Sub Wir & Swr System Rev Bonds Series 2021 A Revenue Bonds Series S Muni Light & Power Imp & Ref Bond 2021 Series A Transmission Sys Rev Ref Bonds Series 2021 Revenue Bonds Series S Homeowner Mortgage Rev Bonds Series 233 Homeowner Mortgage Rev Bonds Series 237 Wir & Swr Sys 2nd Gen Res Bonds Subseries A1-1 Wir & Swr Sys 2nd Gen Res Bonds Subseries A1-1 Wir & Swr Sys 2nd Gen Res Bonds Subseries A2-1 Cap Asset Acqui Spec Oblig Bonds Series 2021 A Systemwide Revenue Bonds Series 2021 A Systemwide Revenue Bonds Series 2021 A	41.40 Negotiated Bid 195.79 Negotiated Bid 305.00 Competitive Bid 106.88 Negotiated Bid 603.20 Negotiated Bid 236.14 Negotiated Bid 50.15 Negotiated Bid 259.80 Competitive Bid 192.51 Negotiated Bid 192.51 Negotiated Bid 67.09 Negotiated Bid 45.87 Negotiated Bid 400.00 Negotiated Bid 50.00 Negotiated Bid 81.33 Competitive Bid 124.24 Negotiated Bid	Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager Sole Manager Lead Manager Lead Manager Lead Manager Lead Manager Lead Manager Co-Manager Sole Manager Co-Manager Co-Manager Co-Manager Co-Manager	A1;A1 NR NR Aa2 A1 A2 Aa2;Aa2;Aa2;Aa2;Aa2 A1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa1 Aa3;Aa3;Aa3;Aa3;Aa3	A+;A+ NR AA NR A+ A+ A+ AA-AA,AA,AA,AA NR NR NR NR AA	AA-,AA- NR AA- NR NR NR NR NR NR,NR,NR,NR,NR NR NR NR NR NR NR NR	Airports General Purpose/ Public Imp Public Power Water & Sewer Facilities Water & Sewer Facilities Higher Education Public Power Public Power Single Family Housing Single Family Housing Single Family Housing Water & Sewer Facilities Water & Sewer Facilities General Purpose/ Public Imp Higher Education	

	(MEAG)	Revenue Bonds Series 2021 A	150.35 Negotiated Bid	Lead Manager	Baa1;Baa1	A;A	BBB+;BBB+	Public Power	
	Central Michigan Univ Bd of Trust	General Revenue Bonds Series 2021	29.79 Negotiated Bid	Sole Manager	A1	A+	NR	Higher Education	
7/13/2021	NYS Dorm Authority	Revenue Bonds Series 2021 A	212.70 Negotiated Bid	Co-Manager	Aa2	AA-	NR	Higher Education	
	NYS Dorm Authority Colorado	Revenue Bonds Series 2021 B Education Loan Prog TRANs Series 2021 A	37.31 Negotiated Bid 370.00 Competitive Bid	Co-Manager Lead Manager	Aa2 NR;NR;NR;NR	AA- NR;NR;NR;NR	NR NR;NR;NR;NR	Higher Education Primary & Secondary	
								Education	
7/14/2021	Onio	Hospital Revenue Bonds Series 2021 A	83.81 Negotiated Bid	Lead Manager	Aa2	AA	NR	General Acute Care Hospital	
7/14/2021	Ohio	Hospital Revenue Bonds Series 2021 B	198.28 Negotiated Bid	Lead Manager	Aa2	AA	NR	General Acute Care Hospital	
7/14/2021	Univ of Virginia Rector &	General Rev Pledge & Ref Bonds Series	300.00 Negotiated Bid	Lead Manager	Aaa	AAA	AAA	Higher Education	
7/15/2021	Visitors Maine State Housing	2021 B Mortgage Purchase Bonds 2021 Series C	40.00 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
	Authority Central Florida Expressway		198.44 Negotiated Bid	Co-Manager	A1;A1	A+;A+	NR;NR	Toll Roads, Highways &	
	Au							Streets	
7/20/2021	Gainesville City-Florida	Utilities Systems Revenue Bonds 2021 Series A-1	39.48 Negotiated Bid	Lead Manager	Aa3	A	A+	Combined Utilities	
7/20/2021	Gainesville City-Florida	Utilities Systems Revenue Bonds 2021 Series A-2	56.29 Negotiated Bid	Lead Manager	Aa3	A	A+	Combined Utilities	
7/21/2021	Travis Co (Austin) ISD	School Building & Refunding Bonds Series	280.75 Negotiated Bid	Co-Manager	Aaa	NR	NR	Primary & Secondary	
7/21/2021	Colorado Hsg & Fin Auth	2021 Single Family Mortgage Rev Bonds 2021	2.77 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Education Single Family Housing	
	(CHFA)	Series G							
	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2021 Series H	36.23 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
7/21/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2021 Series J	65.00 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
	Clark Co Public Utility Dt	Water System Rev & Ref Bonds Series	14.32 Negotiated Bid	Sole Manager	Aa2	AA-	NR	Water & Sewer Facilities	
	#1 New Hampshire National	2021 Revenue Bonds Series 2021 A	35.89 Negotiated Bid	Lead Manager	Aa2	NR	NR	Primary & Secondary	
7/26/2021	Fin Auth New Hampshire National	Revenue Bonds Series 2021 B	20.00 Negotiated Bid	Lead Manager	Aa2	NR	NR	Education Primary & Secondary	
	Fin Auth							Education	
	AB Won Pat Intl Airport Auth	General Revenue Bonds 2021 Series A	143.43 Negotiated Bid	Lead Manager	Baa2	NR	NR	Airports	
7/27/2021	Texas Dept of Hsg & Comm Affairs	Single Family Mtg Rev Ref Bonds 2021 Series B	24.83 Negotiated Bid	Lead Manager	Aaa	AA+	NR	Single Family Housing	
	Texas Dept of Hsg &	Single Family Mortgage Rev Bonds 2021	150.00 Negotiated Bid	Lead Manager	Aaa	AA+	NR	Single Family Housing	
	Comm Affairs Michigan St Hsg Dev Au	Series A Single Family Mortgage Rev Bonds 2021	111.03 Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	
	(MSHDA)	Series B							
	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2021 Series A	177.57 Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	
8/3/2021	Illinois Finance Authority	Revenue Refunding Bonds Series 2021 A	213.73 Negotiated Bid	Lead Manager	Aa2;Aa2	AA+;AA+	NR;NR	General Acute Care Hospital	
8/3/2021	Port of Beaumont Indus	Facility Revenue Bonds Series 2021 B	200.00 Negotiated Bid	Co-Manager	NR	NR	NR	Industrial Development	
8/3/2021	Dev Auth Port of Beaumont	Dock & Wharf Fac Rev Bonds Series 2021	225.00 Negotiated Bid	Co-Manager	NR	NR	NR	Seaports/ Marine Terminals	
	Navigation Dt Pima Co Industrial Dev	A Revenue Bonds Series 2021 B	21.41 Negotiated Bid	Sole Manager	NR	A	NR	General Acute Care Hospital	
	Auth								
8/4/2021	Pima Co Industrial Dev Auth	Revenue Bonds Series 2021	180.92 Negotiated Bid	Sole Manager	NR	A	NR	General Acute Care Hospital	
8/5/2021	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fiscal 2022 Ser A-1	932.05 Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
8/5/2021	Douglas Co-Nebraska	Educational Facs Rev Bonds Series 2021 A	43.16 Negotiated Bid	Sole Manager	A2	NR	NR	Higher Education	
8/5/2021	Kern Co (Lakeside) USD	General Obligation Bonds Series C-2	2.20 Negotiated Bid	Sole Manager	NR	AA-	NR	Primary & Secondary	
								Education	
	San Diego Co (Lakeside) USD	General Obligation Bonds Series C-1	10.90 Negotiated Bid	Sole Manager	NR;NR	AA-;AA-	NR;NR	Primary & Secondary Education	
3/10/2021	Illinois Finance Authority	Daily Period Revenue Ref Bonds Series 2021 B	73.00 Negotiated Bid	Lead Manager	Aa2	AA+	NR	General Acute Care Hospital	
3/10/2021	Illinois Finance Authority	Revenue Refunding Bonds Series 2021 D	63.10 Negotiated Bid	Lead Manager	Aa2	AA+	NR	General Acute Care Hospital	
3/10/2021	Illinois Finance Authority	Revenue Refunding Bonds Series 2021 E	63.10 Negotiated Bid	Lead	Aa2	AA+	NR	General Acute Care Hospital	
3/10/2021	Illinois Finance Authority	Revenue Refunding Bonds Series 2021 C	73.00 Negotiated Bid	Manager;Remarketin Agent Lead Manager;Remarketin Agent;Credit	Aa2	AA+	NR	General Acute Care Hospital	
				Enhancer					
3/11/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series G	22.70 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
3/11/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021	155.50 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2	AA+;AA+;AA+	NR;NR;NR;NR	Multi Family Housing	
3/12/2021	Triborough Bridge &	Series G Payroll Mobility Tax Sr Ln Bonds Subseries	89.33 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	
8/12/2021	Tunnel Auth Triborough Bridge &	2021 B-2 Payroll Mobility Tax Sr Ln Bonds Subseries	99.72 Negotiated Bid	Co-Manager	NR:NR:NR	AA+;AA+;AA+	AA+;AA+;AA+	Mass Transportation	
	Tunnel Auth	2021 B-1							
3/12/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ln Bonds Subseries 2021 B-1	69.39 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	
3/12/2021	Triborough Bridge &	Payroll Mobility Tax Sr Ln Bonds Subseries 2021 B-2	38.28 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	
3/12/2021	Tunnel Auth Triborough Bridge &	Payroll Mobility Tax Sr Ln Bonds Subseries	29.74 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	
140/2004	Tunnel Auth Triborough Bridge &	2021 B-1	42 74 Negotiated Bid	Co-Manager	NR;NR;NR	AA+;AA+;AA+	AA+;AA+;AA+	Mass Transportation	
	Tunnel Auth	2021 B-1	42.74 Hogotiateu Diu	O-manager				madd fransportandl	
	Puerto Rico Aqueduct & Sewer Authority	Revenue Refunding Bonds Series 2021 A & B	934.74 Negotiated Bid	Lead Manager	NR;NR;NR;NR;NR;NR; NR;NR;NR	NR;NR;NR;NR;NR;NR;NR;N R;NR	NR;NR;NR;NR;NR;NF ;NR;NR;NR	Water & Sewer Facilities	
3/17/2021	Puerto Rico Aqueduct &	Revenue Refunding Bonds Series 2021 C	155.09 Negotiated Bid	Lead Manager	NR	NR	NR	Water & Sewer Facilities	
3/17/2021	Sewer Authority Puerto Rico Aqueduct &	Revenue Refunding Bonds Series 2022 A	565.18 Negotiated Bid	Lead Manager	NR;NR;NR;NR	NR;NR;NR;NR	NR;NR;NR;NR;NR	Water & Sewer Facilities	
3/19/2021	Sewer Authority Maryland Hlth & Hghr Ed	Revenue Bonds Series 2021	104.10 Negotiated Bid	Co-Manager	NR	A	A+	General Acute Care Hospital	
	Facs Au								
	New York City-New York	General Obligation Bonds Series A-1	950.00 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA;AA;AA	AA-;AA-;AA-	General Purpose/ Public Imp	
3/19/2021	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2021-136	294.75 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Wisconsin Public Finance		166.34 Negotiated Bid	Co-Manager	NR	NR	NR	Airports	
	Auth North Carolina	Grant Anticip Rev Vehicle Bonds Series	252.60 Negotiated Bid	Co-Manager	A2	AA	A+	Toll Roads, Highways &	
	SC Pub Svc Au (Santee	2021						Streets Public Power	
	Cooper)	Revenue Refunding & Imp Bonds Series 2021 A&B	430.29 Negotiated Bid	Lead Manager	A2;A2;A2;A2	A;A;A;A	A-;A-;A-;A-		
	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fiscal 2022 Series B	950.00 Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
	Grand Forks City-North	Health Care System Rev Bonds Series 2021	400.00 Negotiated Bid	Lead Manager	Baa2;Baa2	NR;NR	BBB-;BBB-	General Acute Care Hospital	
	Dakota Massachusetts Housing	Single Family Hsg Revenue Bonds Series	89.90 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Fin Agcy North Hudson Sewerage	222 Gross Rev Sr Ln Lease Certificate Series	54.20 Negotiated Bid	Sole Manager	NR	A+	NR	Water & Sewer Facilities	
	Authority	2021							
	Illinois Housing Dev Authority	Revenue Bonds 2021 Series D	125.00 Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
9/10/2021	Illinois Housing Dev Authority	Revenue Bonds 2021 Series E	19.30 Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
9/14/2021	Washington Health Care	Refunding Rev Bonds Series 2021 B	178.23 Negotiated Bid	Lead Manager	Aa3	AA-	AA-	General Acute Care Hospital	
	Facs Au California	Various Purp GO & Refunding Bonds	2,095.07 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA-;AA-;AA-	AA;AA;AA	General Purpose/ Public Imp	
9/14/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds 2021 Ser D Sub D-1	158.96 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
	Connecticut Housing & Fin	Housing Mtg Fin Program Bonds 2021 Ser	2.43 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
	Auth (CHFA) Colorado Bridge Enterprise	D Sub D-2 Sr & Proj Infrastructure Bonds Series 2021	516.63 Negotiated Bid	Sole Manager	NR;NR	A-;A-	NR;NR	Toll Roads, Highways &	
3/14/2021		A&B			NR:NR		NR;NR	Streets	
		TRANs Series 2021	75.00 Competitive Bid	Lead Manager	INK;NK	NR;NR	INT, INT	General Purpose/ Public Imp	
9/15/2021	Houston City-Texas								
9/15/2021	Long Island Power Authority	Electric System Revenue Gen Bonds Series 2021 A	355.76 Negotiated Bid	Co-Manager	A2	A	A	Public Power	

	Long Island Power Authority	Electric System Revenue Gen Bonds Series 2021 B	175.00 Negotiated Bid	Co-Manager	A2	A	A	Public Power	
9/15/2021	Maine State Housing Authority	Revenue Bonds Series 2021 1	15.02 Negotiated Bid	Co-Manager	Aa3	A+	NR	Single Family Housing	
9/15/2021	Maine State Housing	Revenue Bonds Series 2021 2	38.93 Negotiated Bid	Co-Manager	Aa3	A+	NR	Single Family Housing	
9/15/2021		Housing Revenue Bonds 2021 Series 3	79.00 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
9/15/2021		Housing Revenue Bonds 2021 Series 4	6.62 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Authority NYC Municipal Water Fin	Wtr & Swr Sys 2nd Gen Res Bonds Series	542.24 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
	Auth NYC Municipal Water Fin	BB-1 Wtr & Swr Sys 2nd Gen Res Bonds Series	88.10 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
	Auth Ohio State University	BB-2 General Receipts Bonds Series 2021 A	600.00 Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1	AA;AA;AA	AA;AA;AA	Higher Education	3.7
9/21/2021	Orange Co Transportation	BANs Series 2021	662.82 Negotiated Bid	Lead Manager	NR;NR	NR;NR	NR;NR	Mass Transportation	0.7
9/21/2021	Auth Illinois Housing Dev	Multi-Family Revenue Bonds 2021 Series C	65.07 Negotiated Bid	Co-Manager	Aaa	NR	NR	Multi Family Housing	
	Authority Illinois Housing Dev	Multi-Family Revenue Bonds 2021 Series C	12.94 Negotiated Bid	Co-Manager	Aaa;Aaa	NR;NR	NR;NR	Multi Family Housing	
9/21/2021	Authority Local Public Sch Funding	General Obligation Bonds 2021 Series B	50.00 Negotiated Bid	Sole Manager	NR	A+	NR	Primary & Secondary	
	Auth Triborough Bridge &	Payroll Mobility Tax & Ref Bonds Series	536.82 Negotiated Bid	Co-Manager	NR;NR;NR;NR;NR;NR;	AA+;AA+;AA+;AA+;AA+;		Education Mass Transportation	2.7
	Tunnel Auth	2021 C-1A&2-3 Payroll Mobility Tax Sr Ln Bonds Series			NR	AA+	+;AA+;AA+ AA+	Mass Transportation	
	Triborough Bridge & Tunnel Auth	2021 C-1B	52.50 Negotiated Bid	Co-Manager	NR	AA+		·	0.:
	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ref Bonds Series 2021 C-2	8.22 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.
	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ln Bonds Series 2021 C-1B	22.50 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.
9/22/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ref Bonds Series 2021 C-2	3.53 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.
9/22/2021	Triborough Bridge &	Payroll Mobility Tax & Ref Bonds Series	230.06 Negotiated Bid	Co-Manager		AA+;AA+;AA+;AA+;AA+;		Mass Transportation	1.
	Tunnel Auth Bryan City-Texas	2021 C-1A&2-3 Electric System Revenue Bonds Series	66.80 Negotiated Bid	Lead Manager	NR NR	AA+ A+	+;AA+;AA+ AA-	Public Power	
9/23/2021	NYS Thruway Authority	2021 A General Revenue Bonds Series O	260.72 Competitive Bid	Sole Manager	A1	A	NR	Toll Roads, Highways &	4.
9/27/2021	Piedmont Municipal Power	Power Revenue Refunding Bonds Series	97.42 Negotiated Bid	Co-Manager	NR	NR	NR	Streets Public Power	
	Agency	2021 B						Public Power	
	Agency	Electric Refunding Rev Bonds Series 2021 C	90.52 Negotiated Bid	Co-Manager	A3	A-	A-		
	Auth	Refunding Revenue Bonds Series 2021	101.71 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	General Acute Care Hospital	
9/30/2021	Oneida Co Local Dev Corp	Revenue Bonds Series 2021 A	69.26 Negotiated Bid	Sole Manager	NR	BB+	NR	General Acute Care Hospital	
	Georgia Muni Electric Au (MEAG)	Subordinated Bonds Series 2021 B	125.20 Negotiated Bid	Lead Manager	A2;A2	A-;A-	BBB+;BBB+	Public Power	
9/30/2021	Georgia Muni Electric Au	Subordinated Bonds Series 2021 A	178.72 Negotiated Bid	Lead Manager	A2;A2	A-;A-	BBB+;BBB+	Public Power	
10/6/2021		Lease Revenue Ref Bonds 2022 Series C	299.09 Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
	Board Lower Colorado River	Refunding Revenue Bonds Series 2022	253.39 Negotiated Bid	Lead Manager	NR;NR	A;A	AA-;AA-	General Purpose/ Public Imp	
	Authority (LCRA) Philadelphia SD	General Obligation Bonds Series A of 2021	266.98 Negotiated Bid	Co-Manager	A2;A2	NR;NR	A+;A+	Primary & Secondary	
	Philadelphia SD	General Obligation Bonds Series B of 2021	49.86 Negotiated Bid	Co-Manager	A2	NR	A+	Education Primary & Secondary	
								Education	
	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds Series 20211 A	167.26 Negotiated Bid	Co-Manager	NR	A	A+	Public Power	
	Piedmont Municipal Power Agency	Electic Revenue Bonds Series 2021 D & E	122.58 Negotiated Bid	Co-Manager	A3;A3	A-;A-	A-;A-	Public Power	
	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds 2021 Ser E Sub E-1	55.61 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
10/14/2021	Connecticut Housing & Fin	Housing Mtg Fin Prog Bonds 2021 Ser E	20.95 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
10/14/2021	Auth (CHFA) Connecticut Housing & Fin	Sub E-4 Housing Mtg Finance Prog Bonds 2021 Ser	20.00 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
10/14/2021	Auth (CHFA) Connecticut Housing & Fin	E Sub E-31 Housing Mtg Fin Prog Bonds 2021 Ser E	39.96 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
	Auth (CHFA) Connecticut Housing & Fin	Sub E-5 Housing Mtg Finance Prog Bonds 2021 Ser	10.00 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
	Auth (CHFA)	E Sub E-2	125.00 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series J						· · · · · · · · · · · · · · · · · · ·	
	Contra Costa Co (San Ramon Valley) USD	GO Refunding Bonds Series 2021	256.33 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Primary & Secondary Education	
	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds Series K	1.88 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds Series L	53.12 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds Series M-1	28.00 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
	Colorado Hsg & Fin Auth	Single Family Mortgage Bonds 2021 Series	42.00 Negotiated Bid	Lead Manager	NR	NR	NR	Single Family Housing	
	(CHFA) Univ of WI Hosp & Clinics	M-2 Revenue Bonds Series 2021 B	315.23 Negotiated Bid	Lead Manager	Aa3	AA-	NR	General Acute Care Hospital	
	Auth Univ of WI Hosp & Clinics	Revenue Refunding Bonds Series 2021 C	49.50 Negotiated Bid	Lead Manager	Aa3	AA-	NR	General Acute Care Hospital	
	Auth	Hudson Yards Revenue Bonds Series A	454.14 Negotiated Bid	Co-Manager	Aa2	AA-	A+	Mass Transportation	5
	Infrastructure Corp								5
	Massachusetts Housing Fin Agcy	Housing Bonds 2021 Series B-1	77.82 Negotiated Bid	Lead Manager	Aa2	AA	NR	Multi Family Housing	
10/21/2021	Massachusetts Housing Fin Agcy	Housing Revenue Bonds 2021 Series C	8.81 Negotiated Bid	Lead Manager	Aa2	AA	NR	Multi Family Housing	
10/21/2021	Massachusetts Housing Fin Agcy	Housing Bonds 2021 Series B-2	0.45 Negotiated Bid	Lead Manager	Aa2	AA	NR	Multi Family Housing	
10/21/2021	Massachusetts Housing	Housing Bonds 2021 Series B-2	41.15 Negotiated Bid	Lead Manager	Aa2	AA	NR	Multi Family Housing	
	Fin Agcy Massachusetts Housing	Housing Bonds 2021 Series B-2	20.35 Negotiated Bid	Lead Manager	Aa2	AA	NR	Multi Family Housing	
10/26/2021	Fin Agcy Wisconsin Hlth & Ed Fac	Revenue Bonds Series 2021	208.30 Negotiated Bid	Lead Manager	A1	AA-	NR	General Acute Care Hospital	
	Auth (WHEFA) Los Angeles USD	General Obligation Bonds Series RYRR	61.72 Negotiated Bid	Co-Manager	Aa3	NR	AA+	Primary & Secondary	
		2021		·				Education	
	Los Angeles USD	General Obligation Bonds Series RYRR 2021	432.43 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	NR;NR;NR	AA+;AA+;AA+	Primary & Secondary Education	
10/26/2021	Los Angeles USD	GO Refunding Bonds 2021 Ser B	48.86 Negotiated Bid	Sole Manager	Aa3	NR	AA+	Primary & Secondary Education	
	San Joaquin Co (Stockton) USD	General Obligation Bonds Series B	11.50 Negotiated Bid	Sole Manager	Aa3	A+	NR	Primary & Secondary Education	
10/26/2021	San Joaquin Co (Stockton)	General Obligation Bonds Series B	86.50 Negotiated Bid	Sole Manager	Aa3;Aa3	A+;A+	NR;NR	Primary & Secondary	
10/27/2021		Jt Revenue Refunding Bonds Series 2021 C	706.23 Negotiated Bid	Lead Manager	A1	NR	A+	Education Airports	;
10/27/2021	Texas Ohio	Infras Imp&Ref&Cons Proj GO Bond Series	229.07 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	AA+;AA+;AA+	Economic Development	
10/27/2021		2021 A&B Common Schools GO Ref Bonds Series	100.13 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Primary & Secondary	
		2021 C						Education	4
	Lynchburg Economic Dev Auth	Hospital Revenue & Ref Bonds Series 2021	215.43 Negotiated Bid	Sole Manager	Baa1	A-	A-	General Acute Care Hospital	ľ
	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Revenue Bonds 2021 Series C	101.71 Negotiated Bid	Lead Manager	Aa2;Aa2;Aa2	NR;NR;NR	AA-;AA-;AA-	Public Power	
11/4/2021	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Rev Bonds 2021 Series C	300.00 Negotiated Bid	Lead Manager	Aa2	NR	AA-	Public Power	
	El Paso City-Texas	GO Bonds & Comb Tx & Rev COBs Series	157.52 Negotiated Bid	Lead Manager	NR;NR	NR;AA	NR;AA	General Purpose/ Public Imp	
		2021 B & C Revenue Refunding Bonds Series 2021 A	269.52 Negotiated Bid	Co-Manager	A1	A	NR	Public Power	
	Inc Maine State Housing	Mortgage Purchase Bonds 2021 Series D	39.33 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
	Authority NYS Environmental Facs	State Revolving Funds Rev Bonds Series	144.54 Negotiated Bid	Co-Manager	Aaa	AAA	AAA	Pollution Control	
11/10/2021		2021 B					NR.	Single Family Housing	
	Corp Poppedyania Housing Ein	Single Eamily Mortgage Pay Bonde Cories	252 15 Magazintad Did	Co-Manager					
11/10/2021	Corp Pennsylvania Housing Fin Agcy (PHFA) Colorado Hsg & Fin Auth	Single Family Mortgage Rev Bonds Series 2021-137 Multi-Family Project Bonds 2021 Series E-1	253.15 Negotiated Bid 7.85 Negotiated Bid	Co-Manager Co-Manager	Aa1 Aaa	AAA	NR NR	Multi Family Housing	

11/17/2024	(CHFA)	Multi-Family Project Bonds 2021 Series E-2 Revenue Bonds Series 2021A	3.24 Negotiated Bid 1,034.37 Negotiated Bid	Co-Manager Lead Manager	Aa3;Aa3;Aa3;Aa3	AA-;AA-;AA-	AA-;AA-;AA-;AA-	Multi Family Housing General Acute Care Hospital	
	Auth								
11/18/2021	Ohio Higher Ed Fac Commission	Revenue Refunding Bonds Series 2021A	28.46 Negotiated Bid	Lead Manager	Aa3	AA-	NR	Higher Education	
	Ohio Higher Ed Fac Commission	Revenue Refunding Bonds Series 2021B	35.00 Negotiated Bid	Lead Manager;Remarketin Agent	Aa3 g	AA-	NR	Higher Education	
	Massachusetts Housing	Single Family Hsg Rev Bonds Series 223	70.86 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
12/1/2021	Fin Agcy Illinois	General Obligation Bonds Ser of Dec 2021	200.00 Competitive Bid	Sole Manager	Baa2	BBB	BBB-	General Purpose/ Public Imp	
12/1/2021	Los Angeles Co (Centinela	B Ref Certificates of Participation Series 2021	7.06 Negotiated Bid	Sole Manager	NR	A	NR	Primary & Secondary	
	Valley) UHSD NYS Housing Fin-	Affordable Housing Rev Bonds 2021 Series	134.91 Negotiated Bid	Co-Manager	Aa2;Aa2	NR;NR	NR;NR	Education Multi Family Housing	
	Mortgage Agcy	J& K 1							
	NYS Housing Fin- Mortgage Agcy	Affordable Housing Rev Bonds 2021 Series J-2	46.80 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
	NYS Housing Fin- Mortgage Agcy	Affordable Housing Rev Bonds 2021 Series J-2	210.19 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
12/2/2021	NYS Housing Fin- Mortgage Agcy	Affordable Housing Rev Bonds 2021 Series J-2	38.57 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
	Alaska Housing Finance	General Mortgage Revenue Bonds 2022	122.80 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	NR;NR;NR	Single Family Housing	
	Corp Golden State Tobacco Sec	Series A &B-1&2 Tobacco Settle Asset-Backed Bonds Series	2,799.63 Negotiated Bid	Co-Manager	NR;NR;NR;NR;NR;NR	NR;NR;NR;NR;NR	NR;NR;NR;NR;NR;NI	R General Purpose/ Public Imp	
12/8/2021	Corp Golden State Tobacco Sec	2021 A-1&B-1 Tobacco Settle Asset-Backed CABs Series	1,384.99 Negotiated Bid	Co-Manager	NR	NR	NR	General Purpose/ Public Imp	
	Corp Washington State	2021 B-2 General Revenue Ref Bonds Series 2022	16.05 Negotiated Bid	Sole Manager	Aa3	A+	NR	Higher Education	
	University NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021	185.11 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
		Series K-2	•						
	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series K-1	134.08 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
12/8/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds Series 2021 K-3	50.00 Negotiated Bid	Sole Manager;Remarketin	Aa2 g	AA+	NR	Multi Family Housing	
	San Joaquin Hills Trans	Sr Lien Toll Road Ref Rev Bonds Series	520.48 Negotiated Bid	Agent Co-Manager	NR;NR;NR;NR	A;A;A;A	BBB;BBB;BBB;BBB	Toll Roads, Highways &	
	Corridor Agy San Joaquin Hills Trans	2021A Sr Lien Toll Road Ref Rev Bonds Series	605.07 Negotiated Bid	Co-Manager	NR	A	BBB	Streets Toll Roads, Highways &	
	Corridor Agy Utah State Board of	2021B General Revenue Bonds Series 2022A	186 29 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Streets Higher Education	
	Regents Massachusetts Housing		100.00 Negotiated Bid					Single Family Housing	
	Fin Agcy	Single Family Housing Notes Series 2021	•	Co-Manager	NR	NR	NR	· · · · · ·	
	Massachusetts Wtr Resources Auth	Gen Revenue Refunding Bonds 2021 Series C	687.40 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
	Massachusetts Wtr Resources Auth	General Revenue Bonds 2021 Series B	60.64 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
	Quincy City-Massachusetts	GO Pension Bonds	475.00 Negotiated Bid	Co-Manager	NR	AA	NR	General Purpose/ Public Imp	
12/14/2021	Spokane Co-Washington	Limited Tax GO Refunding Bonds Series	56.77 Negotiated Bid	Sole Manager	Aa1	AA+	NR	General Purpose/ Public Imp	
12/15/2021	Connecticut	2021 General Obligation Bonds 2022 Series A-1	39.90 Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-2	16.33 Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
	Connecticut	General Obligation Bonds 2022 Series A-3	3.80 Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
	Connecticut	General Obligation Bonds 2022 Series A-4	165.27 Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-5	112.34 Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-6	84.60 Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-7	77.77 Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
12/15/2021	Connecticut	General Obligation Bonds 2022 Series B	300.00 Negotiated Bid	Lead Manager	Aa3	A+	AA-	Primary & Secondary	
1/5/2022	Maine State Housing	Mortgage Purchase Bonds 2022 Series A	50.00 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Education Single Family Housing	
	Authority Maine State Housing	Mortgage Purchase Bonds 2022 Series B	50.00 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Authority Berwyn City-Illinois	General Obligation Bonds Series 2022 A	90.80 Negotiated Bid	Lead Manager	NR.	BBB	NR	General Purpose/ Public Imp	
		General Obligation Bonds Series 2022 B	9.00 Negotiated Bid	Lead Manager	NR	BBB	NR		
	Berwyn City-Illinois							General Purpose/ Public Imp	
1/12/2022		Education Loan Program TRANs Series 2021B	300.00 Competitive Bid	Sole Manager	NR;NR	NR;NR	NR;NR	Primary & Secondary Education	
1/13/2022	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Revenue Bonds 2022 Series A	375.00 Negotiated Bid	Lead Manager	Aa2	NR	AA-	Public Power	
	Rhode Island Hsg & Mtg Fin Corp	Homeownership Opportunity Bonds Seriles 76-A	124.93 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Rhode Island Hsg & Mtg	Homeownership Opportunity Bonds Seriies	13.80 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
1/20/2022	Fin Corp Texas Dept of Hsg &	76-T Residential Mtg Revenue Bonds Series	190.00 Negotiated Bid	Co-Manager	Aaa	AA+	NR	Single Family Housing	
	Comm Affairs NYC Transitional Finance	2022A Future Tax Subordinate Bonds Fiscal 2022	950.00 Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
	Auth Colorado Hsg & Fin Auth	Ser C Single Family Mtg Bonds 2022 Series C-1	28.63 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
	(CHFA)								
	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Bonds 2022 Series B	45.78 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Bonds 2022 Series A	4.22 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
	West Basin Municipal Water Dt	Refunding Revenue Bonds Series 2022A	24.45 Negotiated Bid	Sole Manager	Aa2	NR	NR	Water & Sewer Facilities	
2/4/2022	NYC Municipal Water Fin Auth	Water & Sewer Revenue Bonds Fiscal 2022 SerCC1&2	500.00 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	AA+;AA+;AA+	Water & Sewer Facilities	
2/8/2022	Greater Orlando Aviation	Airport Facs Ref Rev Bonds Series 2022 D	19.74 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Airports	
2/8/2022	Auth Greater Orlando Aviation	Airport Revenue & Ref Bonds Series 2022 B	75.54 Negotiated Bid	Co-Manager	Aa3;Aa3	AA-;AA-	AA-;AA-	Airports	
	Auth Greater Orlando Aviation	& E Airport Facs Rev & Ref Bonds Series 2022	191.77 Negotiated Bid	Co-Manager	Aa3;Aa3	AA-;AA-	AA-;AA-	Airports	
	Auth SC Pub Svc Au (Santee	A & C Revenue Oblig Ref Bonds 2022 Series A &	1,283.19 Negotiated Bid	Co-Manager	A2:A2	A;A	A-;A-	Public Power	
	Cooper)	В		Co-Manager	,				
2/17/2022	NYC Housing Dev Corp University of South	Housing Impact Bonds 2022 Series A Special Higher Ed Rev Ref Bonds Series	104.25 Negotiated Bid 39.81 Negotiated Bid	Co-Manager Sole Manager	Aa2 Aa3	NR NR	NR NR	Multi Family Housing Higher Education	
2/17/2022	Carolina University of South	2022A Athletic Facs Ref & Imp Rev Bonds Series	36.69 Negotiated Bid	Sole Manager	Aa3	NR	NR	Higher Education	
	Carolina University of South	2022A Higher Ed Revenue Refunding Bonds Series	14.14 Negotiated Bid	Sole Manager	Aa3	NR	NR	Higher Education	
	Carolina	2022A			Aa1-Aa1-Aa1-Aa1				
	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2022-138A	207.76 Negotiated Bid	Co-Manager	,,,	AA+;AA+;AA+	NR;NR;NR;NR	Single Family Housing	
2/24/2022	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2022 Series A	180.40 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
	District of Columbia Wtr & Swr Au	Public Utility Sub Lien Rev Bonds Series 2022B	79.59 Negotiated Bid	Co-Manager	Aa2	AA+	AA	Water & Sewer Facilities	
	District of Columbia Wtr & Swr Au	Pub Utility Sub Lien & Ref Bonds Series 2022C	206.73 Negotiated Bid	Co-Manager	Aa2	AA+	AA	Water & Sewer Facilities	
2/24/2022	District of Columbia Wtr &	Pub Utility Sub Lien & Ref Bonds Series	148.93 Negotiated Bid	Co-Manager	Aa2	AA+	AA	Water & Sewer Facilities	
2/25/2022	Swr Au NYS Housing Fin-	2022D Homeowner Mortgage Rev Bonds Series	45.21 Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
	Mortgage Agcy NYS Housing Fin-	245 Homeowner Mortgage Rev Bonds Series	153.59 Negotiated Bid	Co-Manager	Aa1;Aa1	NR;NR	NR;NR	Single Family Housing	
	Mortgage Agcy NYS Housing Fin-	242 & 244 Homeowner Mortgage Rev Bonds Series	16.90 Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
	Mortgage Agcy	243							
	NYC Municipal Water Fin	Wtr&Swr Sys 2nd Gen Res Rev Bonsd Series EE	778.97 Negotiated Bid	Lead Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
	Auth Lower Colorado River	Transmission Contract Ref Bonds Series	342.63 Negotiated Bid	Lead Manager	NR	A	A+	Public Power	

2/9/2000 **	Authority	Housing Revenue Bonds 2022 Series 1	60.64 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
	Wyoming Community Dev Authority	Housing Revenue Bonds 2022 Series 3	8.80 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
3/9/2022 C		Various Purpose GO & Ref Bonds	1,878.89 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2	AA;AA;AA;AA	AA-;AA-;AA-;AA-	General Purpose/ Public Imp	
3/9/2022 C	California	Various Purpose GO Ref Bonds	150.00 Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp	
3/9/2022 C	California	Various Purpose GO Ref Bonds	200.00 Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp	
				-					
	Regents of the University of Michigan	General Revenue Bonds Series 2022A	1,700.00 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Higher Education	
3/9/2022 R		General Revenue Bonds Series 2022B	300.00 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Higher Education	
3/10/2022 N	NYC Transitional Finance	Future Tax Secured Sub Bonds Fis 2022	140.53 Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
	Auth NYC Transitional Finance	Sub D-1 Future Tax Secured Sub Bonds Fis 2022	709.80 Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
A	Auth	SerE&SubD-1							
R	Regents	Rev Financing Sys Ref & Imp Bonds Series 2022A	48.33 Negotiated Bid	Lead Manager	Aa2	NR	AA	Higher Education	
		Rev Financing Sys Ref & Imp Bonds Series 2022A	53.23 Negotiated Bid	Lead Manager	Aa2	NR	AA	Higher Education	
	NYS Dorm Authority	State Personal Inc Tax Rev Bonds Series	2,422.34 Negotiated Bid	Co-Manager	NR	AA+	AA+	General Purpose/ Public Imp	
3/23/2022 N	NYS Housing Fin-	2022A Affordable Housing Rev Bonds 2022 Series	102.44 Negotiated Bid	Co-Manager	Aa2;Aa2	NR;NR	NR;NR	Multi Family Housing	
N 25/2/2022 N	Mortgage Agcy NYS Housing Fin-	A-1&B-1 Affordable Housing Rev Bonds 2022 Ser A-	217.95 Negotiated Bid	Co-Manager	Aa2;Aa2	NR;NR	NR;NR	Single Family Housing	
N	Mortgage Agcy	2&B-2							
		Affordable Housing Rev Bonds 2022 Series C	17.85 Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing	
	Brevard Co Health Facs Auth	Hospital Revenue Bonds Series 2023A	47.42 Negotiated Bid	Co-Manager	A2	A	NR	General Acute Care Hospital	
3/24/2022 B	Brevard Co Health Facs	Hospital Revenue Bonds Series 2022A	388.23 Negotiated Bid	Lead Manager	A2;A2;A2;A2	A;A;A;A	NR;NR;NR;NR	General Acute Care Hospital	
	Auth New York City-New York	General Obligation Bonds Fiscal 2022 Ser	900.91 Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	AA-;AA-	General Purpose/ Public Imp	
		B&C							
		Capital Fund Program Rev Bonds Series 2022A	398.27 Negotiated Bid	Co-Manager	NR	AA-	NR	Multi Family Housing	
		Lease Revenue Refunding Bonds Series 2022	53.63 Negotiated Bid	Co-Manager	NR	AA+	AA	General Purpose/ Public Imp	
3/31/2022 N	NYC Transitional Finance	Future Tax Secured Sub Bonds Fiscal 2022	950.00 Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
	Auth daho Housing & Fin Assoc	Sub F-1 Sales Tax Revenue Bonds Series 2022A	184.59 Negotiated Bid	Co-Manager	Aa1	NR	AA+	Toll Roads, Highways &	
	New York Transportation	Special Fac Revenue Bonds Series 2022	1,323.93 Negotiated Bid	Co-Manager	Baa1	NR	BBB	Streets Airports	
D	Development Corporation							·	
	Monroeville Finance Authority	UPMC Revenue Bonds Series 2022B	172.20 Negotiated Bid	Lead Manager	A2	A	A	General Acute Care Hospital	
4/5/2022 P	Pennsylvania Econ Dev Fin	Revenue Bonds Series 2022A	212.43 Negotiated Bid	Co-Manager	A2;A2;A2	A;A;A	A;A;A	General Acute Care Hospital	
4/5/2022 R		General Revenue Bonds Series 2022C	413.21 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Higher Education	
ol	of Michigan	Refunding Revenue Bonds Series 2022	56.59 Negotiated Bid	Lead Manager	A2	NR	NR	Higher Education	
A	Auth (WHEFA)			•					
4/5/2022 T	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Ref Bonds Series 2022B	1,000.02 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	
		Clean & Drinking Wtr Revolv Bonds Seres 2022A	413.01 Negotiated Bid	Co-Manager	Aaa	AAA	AAA	Pollution Control	
4/6/2022 V		Housing Revenue Bonds 2022 Series 2	37.53 Negotiated Bid	Lead	Aa1	AA+	NR	Single Family Housing	
A	Authority			Manager;Remarketin Agent	g				
	Missouri Hlth & Ed Facs	Health Facilities Rev Bonds Series 2022A	312.07 Negotiated Bid	Co-Manager	A1	A+	AA-	General Acute Care Hospital	
	Authority University Of Minnesota	General Obligation Bonds Series 2022	500.00 Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	
	Regents California St Public Works	Lease Revenue Bonds 2022 Series D	294.99 Competitive Bid	Sole Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
В	Board								
4/13/2022 K	Kansas City-Missouri	Special Obligation Bonds Series 2022B	34.36 Negotiated Bid	Co-Manager	A2	AA-	NR	General Purpose/ Public Imp	
4/13/2022 K	Kansas City-Missouri	Special Obligation Bonds Series 2022A	2.92 Negotiated Bid	Co-Manager	A2	AA-	NR	General Purpose/ Public Imp	
4/13/2022 K	Kansas City-Missouri	Special Oblig Ref & Imp Bonds Series	167.46 Negotiated Bid	Co-Manager	A2	AA-	NR	Toll Roads, Highways &	
4/20/2022 N	Massachusetts Dev	2022C Revenue Bonds Series 2022B	207.83 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Streets Higher Education	
F	Finance Agcy				Aaa	AAA	NR		
						AAA			
A	Auth (CHFA)	Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-1	78.03 Negotiated Bid	Co-Manager				Multi Family Housing	
A 4/20/2022 C	Auth (CHFA) Connecticut Housing & Fin		78.03 Negotiated Bid 6.36 Negotiated Bid	Co-Manager Co-Manager	Aaa	AAA	NR	Multi Family Housing	
4/20/2022 C A	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) lowa Finance Authority	B Sub B-1 Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2 Midwestern Disaster Area Bonds Series			Aaa Baa3;Baa3;Baa3	AAA BBB-;BBB-;BBB-			
A 4/20/2022 C A 4/21/2022 Id	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) lowa Finance Authority	B Sub B-1 Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2	6.36 Negotiated Bid	Co-Manager			NR	Multi Family Housing	
4/20/2022 C A 4/21/2022 Ic 4/27/2022 R	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) lowa Finance Authority Regents of the University of California	B Sub B-1 Housing Mig Finance Prog Bonds 2022 Ser B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series Q	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid	Co-Manager Co-Manager Lead Manager	Baa3;Baa3;Baa3 Aa3	BBB-;BBB-;BBB-	NR BBB-;BBB-;BBB- AA-	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital	
4/20/2022 C A 4/21/2022 Ic 4/27/2022 R ol 4/27/2022 R	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) Iowa Finance Authority Regents of the University of California Regents of the University of California	B Sub B-1 Housing Mig Finance Prog Bonds 2022 Ser B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series Q Medical Ctr Pooled Rev Bonds 2022 Series Q	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid	Co-Manager Co-Manager Lead Manager Lead Manager	Baa3;Baa3;Baa3 Aa3 Aa3	BBB-;BBB-;BBB- AA- AA-	NR BBB-;BBB-;BBB- AA- AA-	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital	
A/20/2022 C A/4/21/2022 Ic 4/27/2022 R O/4/27/2022 R O/4/27/2022 C	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) Iowa Finance Authority Regents of the University of California Regents of the University of California	B Sub B-1 Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series Q Medical Ctr Pooled Rev Bonds 2022 Series	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid	Co-Manager Co-Manager Lead Manager	Baa3;Baa3;Baa3 Aa3	BBB-;BBB-;BBB-	NR BBB-;BBB-;BBB- AA-	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital	
A/20/2022 C A/21/2022 Ic 4/27/2022 R 6/27/2022 R 6/27/2022 C 6/27/2022 C	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) owa Finance Authority Regents of the University of California Regents of the University of California Colorado Hag & Fin Auth CHFA) Pennsylvania Housing Fin	B Sub B-1 Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series C Medical Ctr Pooled Rev Bonds 2022 Series C Single Family Mortgage Rev Bonds Series 2022 D-1 Single Family Mortgage Rev Bonds Series	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid	Co-Manager Co-Manager Lead Manager Lead Manager	Baa3;Baa3;Baa3 Aa3 Aa3	BBB-;BBB-;BBB- AA- AA-	NR BBB-;BBB-;BBB- AA- AA-	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital	
A/20/2022 C A/21/2022 Ic 4/27/2022 R ol 4/27/2022 R ol 4/27/2022 C (((4/27/2022 P	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) Owa Finance Authority Regents of the University of California Regents of the University of California Colorado Hsg & Fin Auth CCHFA) Pennsylvania Housing Fin Aqcy (PHFA)	B Sub B-1 Housing Milg Finance Prog Bonds 2022 Ser B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series Q Medical Ctr Pooled Rev Bonds 2022 Series Q Single Family Mortgage Rev Bonds Series 2022 D-1	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid 48.38 Negotiated Bid	Co-Manager Co-Manager Lead Manager Lead Manager Co-Manager	Baa3;Baa3;Baa3 Aa3 Aaa	BBB-;BBB-;BBB- AA- AA- AAA	NR BBB-;BBB-;BBB- AA- AA-	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital Single Family Housing	
A 4/20/2022 C A 4/21/2022 Ic 4/27/2022 R ol 4/27/2022 R ol 4/27/2022 C (0 4/27/2022 P A 5/3/2022 C	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) owa Finance Authority Regents of the University of California Regents of the University of California Colorado Heg & Fin Auth CHFA) Pennsylvania Housing Fin Agov (PHFA) Ohio	B Sub B-1 Housing Milg Finance Prog Bonds 2022 Ser B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Cit Pooled Rev Bonds 2022 Series Q Single Family Mortgage Rev Bonds Series 2022 D-1 Single Family Mortgage Rev Bonds Series 2022 D-1 Housing Family Mortgage Rev Bonds Series 2022 D-1 Housing Family Mortgage Rev Bonds Series 2022-139 A Healthcare Facs Rev Bonds Series 2022	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid 48.38 Negotiated Bid 222.03 Negotiated Bid 71.81 Negotiated Bid	Co-Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager	Baa3;Baa3 Aa3 Aaa Aa1 NR	BBB-;BBB-;BBB- AA- AA- AAA AAA AA+ NR	NR BBB-;BBB-;BBB- AA- AA- NR NR BBB+	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital Single Family Housing General Acute Care Hospital	
A/20/2022 C A/27/2022 R 6/27/2022 R 6/27/2022 R 6/27/2022 C 6/27/2022 C 6/27/2022 C 5/3/2022 C 5/4/2022 M	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) Auth (CHFA) Auth (CHFA) Regents of the University of California Regents of the University of California Colorado Heg & Fin Auth CHFA) Pennsylvania Housing Fin Aucy (PHFA) Dhio Michigan St Hsg Dev Au MSHDA)	B Sub B-1 Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2 B Sub B-2 B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series Q Medical Ctr Pooled Rev Bonds 2022 Series Series Q Medical Ctr Pooled Rev Bonds 2022 Series Series Q Medical Ctr Pooled Rev Bonds 2022 Series Series 2022 D-1 Single Family Mortgage Rev Bonds Series 2022 D-1 Single Family Mortgage Rev Bonds Series 2022 Housing Family Mortgage Rev Bonds Series 2022 Rental Housing Rev Bonds 2022 Series A	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid 48.38 Negotiated Bid 222.03 Negotiated Bid 71.81 Negotiated Bid 135.05 Negotiated Bid	Co-Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager	Baa3;Baa3;Baa3 Aa3 Aa3 Aaa Aa1 NR	BBB-,BBB-,BBB- AA- AAA AAA AAA AAA AAA AAA	NR BBB-;BBB-;BBB- AA- NR NR BBB+ NR	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital Single Family Housing Single Family Housing General Acute Care Hospital Single Family Housing	
A/20/2022 C A/21/2022 Ic A/21/2022 Ic C A/27/2022 R O C C C C C C C A/27/2022 C C C C A/27/2022 C C A/27/2022 C C C C C C C C C C C C C C C C C C	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) was Finance Authority Regents of the University of California Regents of the University of California Colorado Hag & Fin Auth (CHFA) Ohio Michigan St Hsg Dev Au MSHDA) Worth Carolina	B Sub B-1 Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2 B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series C G Single Family Mortgage Rev Bonds Series 2022 D-1 Single Family Mortgage Rev Bonds Series 2022 D-1 Realthcare Fac Serv Bonds Series 2022-199 A Healthcare Fac Serv Bonds Series 2022 Rental Housing Rev Bonds 2022 Series A Limited Obligation Bonds Series 2022	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid 48.36 Negotiated Bid 222.03 Negotiated Bid 71.81 Negotiated Bid 135.05 Negotiated Bid 300.00 Negotiated Bid	Co-Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Co-Manager Co-Manager	Baa3;Baa3;Baa3 Aa3 Aa3 Aaa Aa1 NR NR	BBB-;BBB-;BBB- AA- AA- AAA AAA+ NR AA AAA AAA+	NR BBB-;BBB-;BBB- AA- AA- NR NR BBB+ NR AA+	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital Single Family Housing Single Family Housing General Acute Care Hospital Single Family Housing Mass Transportation	
A/20/2022 C A/4/21/2022 Ic A/27/2022 R A/27/2022 P A/27/2022 P A/27/2022 P A/27/2022 P A/27/2022 P A/27/2022 D 5/4/2022 N 5/5/2022 D 5/5/2022 T T 5/5/2022 T T A/27/2022 T A/27/	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) Auth (CHFA) Auth (CHFA) Regents of the University of California Regents of the University of California Colorado Hag & Fin Auth (CHFA) Diba Michigan St Heg Dev Au MSHDA) Worth Carolina Tribbrough Bridge & Trunnel Auth	B Sub B-1 Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2 B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series C G Single Family Mortgage Rev Bonds Series 2022 D-1 Single Family Mortgage Rev Bonds Series 2022 D-1 Single Family Mortgage Rev Bonds Series 2022-19 A Healthcare Facs Rev Bonds Series 2022-Rental Housing Rev Bonds 2022 Series A Limited Obligation Bonds Series 2022 Rantal Housing Rev Bonds Series 2022 Reptatory Company Rev Bonds Series 2022 Rental Housing Rev Bonds Series 2022	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid 48.38 Negotiated Bid 222.03 Negotiated Bid 71.81 Negotiated Bid 135.05 Negotiated Bid 300.00 Negotiated Bid 927.95 Negotiated Bid	Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Co-Manager Co-Manager Co-Manager	Baa3;Baa3;Baa3 Aa3 Aaa Aa1 NR NR Aa1 NR	BBB-;BBB-;BBB- AA- AA- AAA AAA+ NR AA AAA AAA+ AAA+ AAA+ AAA+	NR BBB-;BBB-;BBB- AA- AA- NR NR NR BBB+ NR AA+ AA+	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital Single Family Housing Single Family Housing General Acute Care Hospital Single Family Housing Mass Transportation Mass Transportation	
A/4/20/2022 C C A/4/21/2022 Ic C A/27/2022 R O C A/27/2022 R O C A/27/2022 C C C C A/27/2022 P A/27/2022 N S/5/2022 N S/5/2022 T T S/5/2022 P T S/5/2022 P T S/5/2022 P S/5/2022 P T S/5/2022 P T S/5/2022 P A/27/2022 P A/27/	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) Auth (CHFA) Auth (CHFA) Regents of the University of California Regents of the University of California Colorado Hag & Fin Auth (CHFA) Auth CHFA) Wildeling St Hsg Dev Au MSHDA) Wildeling St Hsg Dev Au MSHDA) Worth Carolina Tribbrough Bridge & Trunnel Auth Pennsylvania State University	B Sub B-1 Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2 B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series C G Single Family Mortgage Rev Bonds Series 2022 D-1 Single Family Mortgage Rev Bonds Series 2022 D-1 Realthcare Fac Serv Bonds Series 2022-199 A Healthcare Fac Serv Bonds Series 2022 Rental Housing Rev Bonds 2022 Series A Limited Obligation Bonds Series 2022	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid 48.36 Negotiated Bid 222.03 Negotiated Bid 71.81 Negotiated Bid 135.05 Negotiated Bid 300.00 Negotiated Bid	Co-Manager Co-Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Co-Manager Co-Manager	Baa3;Baa3;Baa3 Aa3 Aa3 Aaa Aa1 NR NR	BBB-;BBB-;BBB- AA- AA- AAA AAA+ NR AA AAA AAA+	NR BBB-;BBB-;BBB- AA- AA- NR NR BBB+ NR AA+	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital Single Family Housing Single Family Housing General Acute Care Hospital Single Family Housing Mass Transportation	
A/4/20/2022 C C A/4/21/2022 Ic Ic I/27/2022 R G G G A/4/27/2022 R G G G G A/4/27/2022 R G G G G G G G G G G G G G G G G G G	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) Auth (CHFA) Auth (CHFA) Regents of the University of California Regents of the University of California Colorado Hag & Fin Auth Colorado Hag & Fin Auth Colorado Hag & Fin Auth Colorado Hag Ago (HFA) Chio Chionado Hag Bay Auth MSHDA) North Carolina Tribroorugh Bridge & Tunnel Auth Pennsylvania State University	B Sub B-1 Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2 B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series C G Single Family Mortgage Rev Bonds Series 2022 D-1 Single Family Mortgage Rev Bonds Series 2022 D-1 Single Family Mortgage Rev Bonds Series 2022-19 A Healthcare Facs Rev Bonds Series 2022-Rental Housing Rev Bonds 2022 Series A Limited Obligation Bonds Series 2022 Rantal Housing Rev Bonds Series 2022 Reptatory Company Rev Bonds Series 2022 Rental Housing Rev Bonds Series 2022	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid 48.38 Negotiated Bid 222.03 Negotiated Bid 71.81 Negotiated Bid 135.05 Negotiated Bid 300.00 Negotiated Bid 927.95 Negotiated Bid	Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Co-Manager Co-Manager Co-Manager	Baa3;Baa3;Baa3 Aa3 Aaa Aa1 NR NR Aa1 NR	BBB-;BBB-;BBB- AA- AA- AAA AAA+ NR AA AAA AAA+ AAA+ AAA+ AAA+	NR BBB-;BBB-;BBB- AA- AA- NR NR NR BBB+ NR AA+ AA+	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital Single Family Housing Single Family Housing General Acute Care Hospital Single Family Housing Mass Transportation Mass Transportation	
A/2/0/2022 CA 4/2/1/2022 Ic 4/2/1/2022 R 4/2/1/2022 R 4/2/1/2022 R 5/3/2022 C 5/4/2022 N 5/5/2022 N 5/5/2022 T 5/10/2022 P 5/5/10/2022 P	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) Auth (CHFA) Auth (CHFA) Regents of the University of California Regents of the University of California Colorado Hag & Fin Auth Colorado Hag & Fin Auth Colorado Hag & Fin Auth Colorado Hag Alexa (HHFA) Colorado Hago Colo	B Sub B-1 Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2 B Sub B-2 Midwestern Disaster Area Bonds Series 2022 Medical Ctr Pooled Rev Bonds 2022 Series C	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid 48.36 Negotiated Bid 222.03 Negotiated Bid 71.81 Negotiated Bid 135.05 Negotiated Bid 300.00 Negotiated Bid 927,95 Negotiated Bid	Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Sole Manager Co-Manager Co-Manager Lead Manager Lead Manager	Baa3;Baa3;Baa3 Aa3 Aaa Aa1 NR NR Aa1 NR Aa1	BBB-;BBB-;BBB- AA- AA- AAA AAA AAA AAA AAA AAA AAA	NR BBB-;BBB-;BBB- AA- AA- NR NR BBB+ NR AA+ AA+ AA+ NR	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital Single Family Housing Single Family Housing General Acute Care Hospital Single Family Housing Mass Transportation Mass Transportation Higher Education	
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A 4/20/20/22 C A 4/21/20/22 i.e. 4/27/20/22 R 4/27/20/22 N 6/20/22 N 6/20/20/20 N 6/20/20/20/20 N 6/20/20/20	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) Auth (CHFA) Auth (CHFA) Auth (CHFA) Auth (CHFA) Regents of the University of California Regents of the University of California Colorado Hag & Fin Auth CHFA) Auth CHFA) Auth MSHDA) North Carolina Triborough Bridge & Tunnels Auth MSHDA) North Carolina Triborough Bridge & Tunnels Auth Auth MSHDA) San Fran Bay Area Rapid Trans D1 Pennsylvania State University Auth Auth Auth Auth Auth MSHDA) San Fran Bay Area Rapid Trans D1 WSHDA MSHDA) Auth MSHDA)	B Sub B-1 Housing Mig Finance Prog Bonds 2022 Ser B Sub B-2 B Sub	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid 48.38 Negotiated Bid 48.38 Negotiated Bid 222.03 Negotiated Bid 71.81 Negotiated Bid 71.81 Negotiated Bid 300.00 Negotiated Bid 927.95 Negotiated Bid 125.45 Negotiated Bid 125.45 Negotiated Bid 125.45 Negotiated Bid 137.70 Negotiated Bid 137.70 Negotiated Bid 137.00 Negotiated Bid 137.00 Negotiated Bid 137.00 Negotiated Bid 205.28 Negotiated Bid 37.70 Negotiated Bid 59.40 Negotiated Bid 138.06 Negotiated Bid 138.06 Negotiated Bid 117.44 Negotiated Bid 10.80 Negotiated Bid	Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager	Baa3;Baa3;Baa3 Aa3 Aaa Aa1 NR NR NR Aa1 Aa1 Aa1 Aa2 Aa2 Aa2 Aa2 Aa2 Aa3 Aa2 Aa3 Aa2 Aa3 Aa3 Aa3 Aa3 Aa3 Aa3 Aa3 Aa3 Aa3	BBB-;BBB-;BBB- AA- AA- AAA- AAA- NR AA AAA- AAA- AAA-	NR BBB-BBB-BBB- AA- AA- NR NR BBB+ NR AA+ AA+ AA+ AA- AA- NR	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital Single Family Housing Single Family Housing General Acute Care Hospital Single Family Housing General Acute Care Hospital Single Family Housing Mass Transportation Higher Education Higher Education Mass Transportation Water & Sewer Facilities General Purpose/ Public Imp General Purpose/ Public Imp Single Family Housing General Purpose/ Public Imp	
A/20/2022 C A/27/2022 R A/27/2022 N A/27/2022 N A/27/2022 T A/27/2022 T A/27/2022 T A/27/2022 T A/27/2022 D A/27/2	Auth (CHFA) Connecticut Housing & Fin Auth (CHFA) Auth (CHFA) Auth (CHFA) Auth (CHFA) Auth (CHFA) Regents of the University of California Regents of the University of California Colorado Hag & Fin Auth CHFA) Auth CHFA) Auth MSHDA) North Carolina Triborough Bridge & Tunnels Auth MSHDA) North Carolina Triborough Bridge & Tunnels Auth Auth MSHDA) San Fran Bay Area Rapid Trans D1 Pennsylvania State University Auth Auth Auth Auth Auth MSHDA) San Fran Bay Area Rapid Trans D1 WSHDA MSHDA) Auth MSHDA)	B Sub B-1 Housing Mig Finance Prog Bonds 2022 Ser B Sub B-2 B Sub	6.36 Negotiated Bid 838.75 Negotiated Bid 1,100.00 Negotiated Bid 1,900.00 Negotiated Bid 48.38 Negotiated Bid 48.38 Negotiated Bid 222.03 Negotiated Bid 71.81 Negotiated Bid 71.81 Negotiated Bid 300.00 Negotiated Bid 300.00 Negotiated Bid 125.45 Negotiated Bid 125.45 Negotiated Bid 125.45 Negotiated Bid 13.27 Negotiated Bid 13.27 Negotiated Bid 13.28 Negotiated Bid 13.70 Negotiated Bid 137.00 Negotiated Bid 205.28 Negotiated Bid 30.00 Negotiated Bid 205.28 Negotiated Bid 205.28 Negotiated Bid 205.28 Negotiated Bid 205.29 Negotiated Bid 138.06 Negotiated Bid 138.06 Negotiated Bid 117.44 Negotiated Bid 110.80 Negotiated Bid 110.80 Negotiated Bid 110.80 Negotiated Bid	Co-Manager Lead Manager Lead Manager Lead Manager Co-Manager	Baa3;Baa3;Baa3 Aa3 Aaa Aa1 NR NR NR Aa1 NR Aa1 Aa1 Aa2 Aa2 Aa2 Aa2 Aa2 Aa3 Aa2 Aa3	BBB-;BBB-;BBB- AA- AA- AAA- AAA- NR AA AAA- AAA- AAA-	NR BBB-BBB-BBB- AA- AA- NR NR BBB+ NR AA+ AA+ AA+ AA- AA- NR	Multi Family Housing General Purpose/ Public Imp General Acute Care Hospital General Acute Care Hospital Single Family Housing Single Family Housing General Acute Care Hospital Single Family Housing General Acute Care Hospital Single Family Housing Mass Transportation Higher Education Higher Education Mass Transportation Mass Transportation Water & Sewer Facilities General Purpose/ Public Imp General Purpose/ Public Imp General Purpose/ Public Imp Single Family Housing Single Family Housing Single Family Housing Single Family Housing General Purpose/ Public Imp	

5/26/2022 Cons 5/26/2022 Cons		General Obligation Bonds 2022 Series A-2 General Obligation Bonds 2022 Series A-3	136.00 Negotiated Bid 75.94 Negotiated Bid	Co-Manager Co-Manager	Aa3	A+ A+	AA-	General Purpose/ Public Imp General Purpose/ Public Imp
		•						
Rege	ents	General Revenue Bonds Series 2022B	478.43 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Higher Education
USD)	General Obligation Bonds Series A	18.00 Negotiated Bid	Sole Manager	A1	NR	NR	Primary & Secondary Education
		Electric Revenue Ref Bonds 2022 Series J	132.73 Negotiated Bid	Co-Manager	NR	AA	AA	Public Power
	higan St Hsg Dev Au SHDA)	Single Family Mortgage Rev Bonds 2022 Series A	197.12 Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing
	higan St Hsg Dev Au SHDA)	Single Family Mortgage Rev Bonds 2022 Series B	81.28 Negotiated Bid	Sole Manager;Remarketing Agent;Credit	Aa2	AA+	NR	Single Family Housing
	higan St Hsg Dev Au SHDA)	Single Family Mortgage Rev Bonds 2022 Series C	55.24 Negotiated Bid	Enhancer Sole Manager;Remarketing Agent;Credit	Aa2	AA+	NR	Single Family Housing
6/7/2022 NYC	C Housing Dev Corp	Multi-Family Housing Rev Bonds Series C-1	115.71 Negotiated Bid	Enhancer Co-Manager	Aa2	AA+	NR	Multi Family Housing
6/8/2022 Wisc	consin Public Finance	Health Care Sys Rev Bonds Series 2022A	198.37 Negotiated Bid	Lead Manager	NR;NR	AA-;AA-	AA;AA	General Acute Care Hospital
6/8/2022 Mass		Housing Bonds Series 2022A-1&3	25.84 Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	NR;NR	Single Family Housing
Fin A	Agcy	Housing Bonds Series 2022A-2	30.35 Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	NR;NR	Single Family Housing
Fin A	Agcy	Housing Bonds Series 2022A-2	18.77 Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	NR;NR	Single Family Housing
Fin A	Agcy	Wells Hydroelectric Rev Bonds Series A	36.52 Negotiated Bid	Sole Manager	Aa2	AA	NR	Public Power
#1								
#1		Wells Hydroelectric Rev Bonds Series B	76.03 Negotiated Bid	Sole Manager	Aa2	AA	NR	Public Power
Auth	hority	Mortgage Purchase Bonds 2022 Series D	49.25 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing
Port	veland-Cuyahoga Co t Auth	Student Hsg Facs Rev Bonds Series 2022A	140.29 Negotiated Bid	Lead Manager	A3	A-	NR	Higher Education
	veland-Cuyahoga Co t Auth	Student Hsg Facs Rev Bonds Series 2022B	6.65 Negotiated Bid	Lead Manager	A3	A-	NR	Higher Education
6/28/2022 Univ	versity of Maine System	System Revenue Bonds Series 2022	120.33 Negotiated Bid	Co-Manager	NR	AA-	NR	Higher Education
6/29/2022 Geor (ME)		Revenue Bonds Series 2022A	212.01 Negotiated Bid	Lead Manager	A3;A3	A;A	BBB+;BBB+	Public Power
	orgia Muni Electric Au	Revenue Bonds Series 2022B	61.57 Negotiated Bid	Lead Manager	Baa2	BBB+	BBB+	Public Power
6/29/2022 Geor	orgia Muni Electric Au	Revenue Bonds Series 2022A	51.19 Negotiated Bid	Lead Manager	A2;A2	A;A	BBB+;BBB+	Public Power
	orgia Muni Electric Au	Revenue Bonds Series 2022A	50.41 Negotiated Bid	Lead Manager	Baa2	BBB+	BBB+	Public Power
	C Transitional Finance	Future Tax Secured Sub Bonds Fis 2023	950.00 Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp
Auth 6/30/2022 Sum		Sub A-1 Exempt Facilities Rev Bonds Series 2022	250.00 Negotiated Bid	Co-Manager	B1	B+	BB-	Industrial Development
Auth 7/12/2022 Colo	h	Education Loan Prog Tax & RANs Series	55.00 Competitive Bid	Sole Manager	NR	NR	NR	Primary & Secondary
		2022A Single Family Mortgage Bonds 2022 Series	4.48 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Education Single Family Housing
(CH	IFA)	E Single Family Mortgage Bonds 2022 Series	35.52 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing
(CHI	IFA)	F						
(CHI	IFA)	Single Family Mortgage Bonds 2022 Series G-1	26.47 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing
	ance Agcy	Revenue Bonds Series 2022	378.51 Negotiated Bid	Lead Manager	A1	NR	NR	Higher Education
(CHI		Homeownership Bonds Series 2022 BB-1&2	50.00 Negotiated Bid	Co-Manager	Aaa;Aaa	NR;NR	NR;NR	Single Family Housing
	hville-Davidson Co ro Govt	GO Improvement Bonds Series 2022B	282.57 Competitive Bid	Sole Manager	Aa2;Aa2	AA;AA	NR;NR	General Purpose/ Public Imp
7/20/2022 Main Auth	ne State Housing	Mortgage Purchase Bonds Series 2022E	54.18 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Multi Family Housing
7/20/2022 Yorb	ba Linda Water Dt	Financing Auth Rev Bonds Series 2022A	32.31 Negotiated Bid	Sole Manager	NR A-0	AA+	NR	Water & Sewer Facilities
Auth	h	Building Aid Revenue Bonds Fis 2023 Sub S-1A	492.30 Negotiated Bid	Co-Manager	Aa2	AA	AA	General Purpose/ Public Imp
		Multi-Family Housing Bonds 2022 Series E- 1&2	151.34 Negotiated Bid	Lead Manager	Aa2;Aa2	AA+;AA+	NR;NR	Multi Family Housing
Corp		Hospital Revenue Ref Bonds Series 2022 A&B Revenue Bonds Series 2022A	91.69 Private Bid 212.06 Negotiated Bid	Sole Manager;Remarketing Agent Lead Manager	NR Aa2	NR AA	NR NR	General Acute Care Hospital Higher Education
Univ	v Auth	Revenue Bonds Series 2022C-1	110.45 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Higher Education
Univ	v Auth	Revenue Bonds Series 2022C-2	110.45 Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education
Univ	v Auth							
Univ	orgia Priv College & v Auth	Revenue Bonds Series 2022	110.38 Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education
8/9/2022 Minn		GO State Various Purpose Bonds Series 2022A	123.63 Competitive Bid	Sole Manager	Aaa	AAA	AAA	General Purpose/ Public Imp
	nel Auth	General Revenue Bonds Series 2022A	400.00 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Bridges
8/11/2022 Cool	k Co-Illinois	GO Refunding Bonds Series 2022A	268.53 Negotiated Bid	Lead Manager	A2	A+	AA-	General Purpose/ Public Imp
8/11/2022 Cool	k Co-Illinois	GO Refunding Bonds Series 2022B	9.18 Negotiated Bid	Lead Manager	A2	A+	AA-	General Purpose/ Public Imp
8/16/2022 Arka Auth		Environmental Imp Rev Bonds Series 2022	290.00 Negotiated Bid	Co-Manager	NR	BB-	BB	General Purpose/ Public Imp
8/17/2022 Rege		General Revenue Bonds 2022 Series BL	65.24 Negotiated Bid	Co-Manager	Aa2	AA	AA	Higher Education
8/17/2022 Rege	ents of the University	General Revenue Bonds 2022 Series Bk	702.33 Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	AA;AA	Higher Education
8/17/2022 Long		Electric Sys Gen Rev Bonds Series 2022A	130.36 Negotiated Bid	Co-Manager	A2	A	A	Public Power
8/17/2022 Long		Electric Sys Gen Rev Bonds Series 2022 B	100.00 Negotiated Bid	Co-Manager	A2	A	A	Public Power
8/17/2022 Long		Electric Sys Gen Rev Bonds Series 2022C	150.00 Negotiated Bid	Co-Manager	A2	A	A	Public Power
Auth 8/18/2022 Okla	hority ahoma Dev Finance	Ratepayer-Backed Bonds Series 2022	1,354.20 Negotiated Bid	Co-Manager	Aaa	NR	AAA	Gas
Auth	h	General Obligation Bonds Fiscal 2023 Sub	950.00 Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp
		A-1 General Revenue Bonds 2023 Series BM	317.96 Negotiated Bid	Co-Manager	Aa2	AA	AA	Higher Education
of Ci 8/19/2022 NYS	California	Homeowner Mtg Revenue Bonds Series 246	77.03 Negotiated Bid	Lead Manager	Aa1	NR NR	NR NR	Single Family Housing
8/19/2022 NYS Mort 8/19/2022 NYS	tgage Agcy	Homeowner Mtg Revenue Bonds Series 248	17.03 Negotiated Bid	Lead Manager	Aa1	NR NR	NR NR	Single Family Housing Single Family Housing
Mort	tgage Agcy							
8/19/2022 NYS Mort		Homeowner Mortgage Rev Bonds Series 247	79.04 Negotiated Bid	Sole Manager;Remarketing Agent	Aa1	NR	NR	Single Family Housing
8/19/2022 NYS Mort		Homeowner Mortgage Rev Bonds Series 249	18.31 Negotiated Bid	Agent Sole Manager;Remarketing Agent	Aa1	NR	NR	Single Family Housing
	neapolis-St Paul Metro orts Comm	Sub Airport Revenue Bonds Series 2022A	145.90 Negotiated Bid	Co-Manager	NR	A+	A+	Airports
		Sub Airport Revenue Bonds Series 2022B	226.79 Negotiated Bid	Co-Manager	NR	A+	A+	Airports
Airpo 8/23/2022 Minn	orts Comm	General Revenue Bonds 2023 Series A	47.08 Negotiated Bid	Lead Manager	Baa2	NR	NR	Airports
8/23/2022 Minn Airpo 8/24/2022 AB V	orts Comm Won Pat Intl Airport	Gerielar Neveride Borios 2023 Series A					AAA;AAA	General Purpose/ Public Imp
8/23/2022 Minn Airpo 8/24/2022 AB V Auth 8/25/2022 NYC	orts Comm Won Pat Intl Airport h C Transitional Finance	Future Tax Secured Sub Bonds Fis 2023	867.47 Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA,AAA	Ochician i arpodor i abile imp
8/23/2022 Minn Airpo 8/24/2022 AB V Auth 8/25/2022 NYC Auth 8/25/2022 Penr	worts Comm Won Pat Intl Airport Transitional Finance h msylvania Housing Fin	Future Tax Secured Sub Bonds Fis 2023 Sub B-1&C-1 Single Family Mortgage Rev Bonds Series	867.47 Negotiated Bid 129.69 Negotiated Bid	Co-Manager Lead Manager	Aa1;Aa1 Aa1	AAA;AAA AA+	NR NR	Single Family Housing
8/23/2022 Minn Airpo 8/24/2022 AB W Auth 8/25/2022 NYC Auth 8/25/2022 Penr 8/25/2022 Penr	worts Comm Won Pat Intl Airport h C Transitional Finance h insylvania Housing Fin y (PHFA) insylvania Housing Fin	Future Tax Secured Sub Bonds Fis 2023 Sub B-1&C-1						

		Illinois Housing Dev Authority	Revenue Bonds 2022 Series F	50.00 Negotiated Bid	Lead Manager;Remarketing	Aaa	NR	NR	Single Family Housing
March Marc	9/8/2022	·		25.00 Negotiated Bid	Agent	Aa2	AA-	AA	General Purpose/ Public Imp
March Marc	9/8/2022	2 California		2.291.69 Negotiated Bid	Lead Manager	Aa2:Aa2	AA-:AA-	AA:AA	General Purpose/ Public Imp
March Mar			2022						
Column		Regents							
March Company March Company March	9/13/2022	Ware Co SD	GO Sales Tax Bonds Series 2022	25.00 Competitive Bid	Sole Manager	A1	NR	NR	
Section Control Co	9/15/2022	San Diego Co (Cajon	GO Refunding Bonds 2022 Series	25.80 Negotiated Bid	Sole Manager	NR	AA-	NR	Primary & Secondary
Profice Prof		? Texas Dept of Hsg &	Residential Mtg Rev Bonds Series 2022B	150.00 Negotiated Bid	Co-Manager	Aaa	AA+	NR	Single Family Housing
Michael De Michael D		NYS Utility Debt	Restructuring Bonds Series 2022TE-1	787.29 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Public Power
Professor Content of the Content	9/16/2022	NYS Utility Debt	Restructuring Bonds Series 2022TE-2	94.78 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Public Power
Control Cont	9/16/2022		Restructuring Bonds Series 2022T	53.59 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Public Power
Marchesters		Securitization Auth							
April 1999 Apr		Massachusetts	of 2022						
	9/22/2022		Mortgage Purchase Bonds 2022 Series F	60.00 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing
March Marc				52.87 Negotiated Bid	Sole Manager	Aa3	A+	AA	Public Power
2000000000000000000000000000000000000	9/28/2022	Clark Co Public Utility Dt		28.80 Negotiated Bid	Sole Manager	Aa3	A+	AA	Water & Sewer Facilities
Section Sect			General Obligation Bonds Series C	7.08 Negotiated Bid	Sole Manager	A1	NR	NR	Primary & Secondary
Column		USD	General Obligation CARs Series C	4 32 Negotiated Rid	Sole Manager	Δ1	NR	NR	
Authors 1,000		USD	<u> </u>						Education
1500-0222 September Christopher 1500-0222 September Christopher 1500-0222 September Christopher 1500-0222 September Christopher 1500-0222 September Christopher Christ		Authority (LCRA)	2022A						
	10/5/2022	New York City-New York		950.00 Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp
1995/2002 New York Cap New	10/5/2022	Spokane Co-Washington		14.57 Negotiated Bid	Sole Manager	Aa1	AA+	NR	General Purpose/ Public Imp
	10/5/2022	Spokane Co-Washington	Limited Tax GO Bonds Series 2022B	15.05 Negotiated Bid	Sole Manager	Aa1	AA+	NR	General Purpose/ Public Imp
	10/5/2022	New York City-New York	General Obligation Bonds Fis2023 SerB	400.00 Negotiated Bid	Co-Manager	Aa2		AA-	Multi Family Housing
Author			Sub B-2		·				
1915/2002 Concentrate Hasting & Fig. February Prop Broads for U 26.17 Negotiated Bild Co-Manager Aut.		Authority	•						Streets
And Conference Section						NR			
101-136/2012 Connection strating of First State State State Stat	10/13/2022	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds Ser D Sub D-1	25.17 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing
Shirt District State Short Findings	10/13/2022	Connecticut Housing & Fin	Housing Mtg Finance Prog Bonds Ser D	30.03 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing
Authority 1019180207 New January Econ De Auth Transportation Proper National Series 1019180207 New January Econ De Auth Transportation Proper National 2022 20 20 50 Negatives Bed Lead Manager 1019180207 Wilsonain 101	10/18/2022	Virginia Public School		99.92 Competitive Bid	Sole Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	AA+;AA+;AA+	
1019-2022 New Jarray Econ Du Auth Transportation Project Bonds 2022 Earlies A		Authority					AA	AA+	Education
1011822022 Viscoration CO Refunding Books Series 4 of 2022 227.09 Negotiated Bid Co Manager As1 AA4 NR General Purpose Public Imp			2022						
1011920022 Wiscordin House Bound Series 6 at 2022 20.59 Negotime Bid Co Manager As1 AA4 NR General Purposer Public Imp									
10119202 Extractionates Housing Housing Bords 2022 Series C-1 E.6.87 Negotiated Bid Co-Manager Au2 AA	10/19/2022	2 Wisconsin	GO Refunding Bonds Series 4 of 2022	257.09 Negotiated Bid	Co-Manager	Aa1	AA+	AAA	General Purpose/ Public Imp
Fin Age/	10/19/2022	2 Wisconsin	GO Refunding Bonds Series 5 of 2022	20.59 Negotiated Bid	Co-Manager	Aa1	AA+	NR	General Purpose/ Public Imp
1019/2012 Meascachuseth Housing Housing Bonds 2012 Series C. 3 7.5 if Negotiated Bid Co-Manager Azi			Housing Bonds 2022 Series C-1	65.47 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing
Fin Accor			Housing Bonds 2022 Series C-3	73 61 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing
Fin Copy		Fin Agcy							
Fin Corp. 76 A 1025/2022 Messachurates Housing Fin Corp. 26 A 1025/2022 Messachurates Housing Fin Corp. 26 A 1025/2022 Messachurates Housing Fin Corp. 27 A 1025/2022 Messachurates Housing Fin Corp. 27 A 1025/2022 Trecroupl Biology a 1025/2022		Fin Corp	78-T			Aa1	AA+		
1025/2022 Persilan Community October Code Refunding Bronts 2022 Series 8 15 8.0 Negotiated Bild Co-Manager Al-A AA Negotiated Bild Co-Manager Al-A AA Negotiated Bild Co-Manager Negotiated Bild Negotiated Bild Co-Manager Negotiated Bild Co-Manager Negotiated Bild N	10/21/2022			113.41 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing
10/27/2022 Massachusents Housing Final Polaring Rev Bonds Series 78.8 N Nagostand Bild Co-Manager NR A4			GO & Refunding Bonds 2022 Series & B	151.80 Negotiated Bid	Lead Manager	NR;NR	AA-;AA-	AA-;AA-	Higher Education
10/27/2022 Tricknoraly Bridge & Turner (Auth 2012) Task Rel Bonds Series 95.00 Negotiated Bild Co-Manager Art AAA AAA General Purpose Public Imp		Massachusetts Housing		78.86 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing
10/27/2022 This county in France Future T are Sourced Sub Bonds Face 2023 50.00 Nogotised Bid Co-Manager NR-NR A4+/A4+ A4+/A4+ Mass Transportation	10/27/2022		Payroll Mobility Tax & Ref Bonds Series	300.32 Negotiated Bid	Co-Manager	NR	AA+	AA+	Bridges
Auth Sub-D-1	10/27/2022			950.00 Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp
Turnel Auth 2002/E1-18		Auth	Sub D-1	· · · · · · · · · · · · · · · · · · ·					
Turnel Auth 202225-2A 202820-2A 2028200-2A 2028200-2A 2028200-2A 2028200-2A 2028200-2A 2028200-2A 2028200-2A 2028200		Tunnel Auth	2022E-1,2B	· ·					
10/28/20/22 Michigan Site Isp Dev Au Single Family Mortgage Rev Bonds 2022 24.38°. Negorialed Bild Lead Manager As2 A4+ NR Single Family Housing		Tunnel Auth		99.56 Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation
10/28/2022 Michigan St Hag Dev Au (MSHDA) Sories E-1 Sories E-2 Sories E-1 Sories E-2 Sories E-1 Sories E-1 Sories E-2 Sories E-1 Sories E-1 Sories E-1 Sories E-2 Sories E-1	10/28/2022	Michigan St Hsg Dev Au	Single Family Mortgage Rev Bonds 2022	243.92 Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing
Agent Agen	10/28/2022	Michigan St Hsg Dev Au	Single Family Mortgage Rev Bonds 2022	45.16 Negotiated Bid			AA+	NR	Single Family Housing
Agent Authority Series 2022 Barlow Co Development Authority Series 2022 Authority Series 2022 Authority Agent 11/1/2022 Colorado Hag & Fin Auth (CHFA) (H-RA) (H-RA	10/28/2022	Michigan St Hsg Dev Au	Single Family Mortgage Rev Bonds 2022	50.00 Negotiated Bid	Agent Lead	Aa2	AA+	NR	Single Family Housing
Authority Series 2022	10/28/2022	(MSHDA) Bartow Co Development		100.00 Negotiated Bid		NR	NR	NR	Solid Waste
11/1/202 Colorado Hag & Fin Auh (CHFA)		Authority		gonatou Dia			•	**	
(CHFA) 11/1/1022 Colorado Hag & Fin Auth (CHFA) 11/1/1022 Colorado Hag & Fin Auth (CHFA) 11/1/1022 Colorado Hag & Fin Auth (CHFA) 11/1/1022 Single Family Mortgage Bonds 2022 Series 1- 20.00 Negotiated Bid Co-Manager Aa1 AA+AAA NR. Single Family Housing (CHFA) 11/1/1022 Single Family Mortgage Bonds 2022 Series G-1 36.00 Negotiated Bid Lead Manager Aa1 AA+ NR Single Family Housing (CHFA) 11/1/1022 Single Family Mortgage Purchase Bonds 2022 Series G-1 36.00 Negotiated Bid Lead Manager Aa1 AA+ NR Single Family Housing (CHFA) Lead Manager Aa3 AAA AAA General Purpose/ Public Imp Colorado 2022 B 11/3/2022 Denver City and Co- Colorado 2022 Airport System Revenue Bonds Series 349.18 Negotiated Bid Lead Manager Aa3 AA- AA- Airports 2022 Colorado Hag Air AA- Air Air AA- Airports 2022 Colorado Hag Air AA- Air Air AA- Airports 2022 Colorado Hag Air AA- Air AA- Air Air Air AA- Air	11/1/2022	Colorado Hsg & Fin Auth		109.72 Negotiated Bid	Co-Manager	Aaa;Aa3	AAA;AA	NR;NR	Single Family Housing
(CHFA) 142 11/1/2022 Miss State Housing State Housing Mortgage Purchase Bonds 2022 Series G-1 36.00 Negotiated Bid Lead Manager Aa1 AA+ NR Single Family Housing 1/1/2022 Miss Environmental Face Corp 2022 B 2022		(CHFA)		20.00 Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing
Authority 11/2/2022 IVS Environmental Face Corp 2022 B 11/2/2022 Denver City and Co- Colorado 2020 C 2020 B 202		(CHFA)	1&2						
Corp		Authority							
Colorado		Corp							General Purpose/ Public Imp
11/3/2022 Maryor System Revenue Bonds Series 2022A-1 211.87 Negotiated Bild Lead Manager Aa3 AA- AA- Airports	11/3/2022	P. Denver City and Co-	Airport System Revenue Bonds Series	349.18 Negotiated Bid	Lead Manager	Aa3	AA-	AA-	Airports
11/3/2022 Misconsin Public Finance Project Revenue Bonds Series 2022A-1 211.87 Negotiated Bild Sole Manager Baa2 NR NR Higher Education Auth Higher Education NR Higher Education Misconsin Public Finance NR NR NR Misconsin Public Finance NR NR NR NR NR NR NR N	11/3/2022	P Denver City and Co-	Airport System Revenue Bonds Series	817.81 Negotiated Bid	Lead Manager	Aa3	AA-	AA-	Airports
Auth 1/3/2022 Wisconsin Public Finance Auth 1/3/2022 Series 1/3/4 Negotiated Bid 1/3/2022 Series 1/3/4 Negotiated Bid 1/3/4		Wisconsin Public Finance		211.87 Negotiated Bid	Sole Manager	Baa2	NR	NR	Higher Education
Auth 1/8/2022 Colorado Hag & Fin Auth (CHFA) 1/8/2022 Colorado Hag & Fin Aut									
(CHFA) I Single Family Mortgage Bonds 2022 Series 35.66 Negotiated Bid Lead Manager Aaa AAA NR Single Family Housing		Auth			Sole Manager	Baa2	NR	NR	Higher Education
(CHFA) K 1/18/2022 Colorado Hag & Fin Auth 1/18/2022 Colorado Hag & Fin Au	11/3/2022	Auth Wisconsin Public Finance Auth	Project Revenue Bonds Series 2022A-2	0.34 Negotiated Bid					
11/8/2022 Colorado Hag & Fin Auth (CHFA) L-1	11/3/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA)	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J	0.34 Negotiated Bid 4.34 Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing
11/8/2022 Colorado Hag & Fin Auth (CHFA)	11/3/2022	Auth Wisconsin Public Finance Auth C Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid	Lead Manager Lead Manager	Aaa	AAA	NR NR	Single Family Housing
11/9/2022 SC Pub Sirc Au (Santee Coper) Ask (Santee Revenue Imp & Ref Bonds 2022 Series 426.64 Negotiated Bid Lead Manager A3;A3;A3;A3;A3 AAAAAAAAAAAAAA	11/3/2022 11/8/2022 11/8/2022	Auth 2 Wisconsin Public Finance Auth 2 Colorado Hsg & Fin Auth (CHFA) 2 Colorado Hsg & Fin Auth (CHFA) 4 Colorado Hsg & Fin Auth (CHFA) 5 Colorado Hsg & Fin Auth	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid	Lead Manager Lead Manager	Aaa Aaa	AAA AAA	NR NR	Single Family Housing Single Family Housing
Cooper) C&E 11/9/2022 SC Pub Svx Au (Santee Revenue Imp & Ref Bonds 2022 Series 194.85 Negotiated Bid Lead Manager A3;A3;A3;A3 A-;A-;A- A-;A-;A- Public Power Cooper) D&F Co	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA)	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager;Remarketing	Aaa Aaa Aaa	AAA AAA	NR NR NR	Single Family Housing Single Family Housing Single Family Housing
11/9/2022 SC Pub Svc Au (Santee Revenue Imp & Ref Bonds 2022 Series 194.85 Negotiated Bid Lead Manager A3;A3;A3;A3 A-;A-;A- A-;A-;A- A-;A-;A- Public Power Cooper) D&F	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022	Auth Wisconsin Public Finance Auth COHEA) COlorado Hsg & Fin Auth (CHFA)	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J. Single Family Mortgage Bonds 2022 Series K. Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series L-2	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager;Remarketing Agent;Tender Agent	Aaa Aaa Aaa Aa2	AAA AAA AA+	NR NR NR	Single Family Housing Single Family Housing Single Family Housing Single Family Housing
COUPED 1 LOST 11/18/2012 Santa Clara Valles Water Sale Clain Water Prin Ref Ronde Series 75:30 Negotiated Rid Co.Monogov Ant ND AA District Control	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022	Auth Wisconsin Public Finance Auth CHFA) Colorado Hsg & Fin Auth (CHFA) COLORADO Hsg & Fin Auth	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series L-2 Revenue Imp & Ref Bonds 2022 Series	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager;Remarketing Agent;Tender Agent	Aaa Aaa Aaa Aa2	AAA AAA AA+	NR NR NR	Single Family Housing Single Family Housing Single Family Housing Single Family Housing
	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022 11/9/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) SC Pub Svc Au (Santee	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series L-2 Revenue Imp & Ref Bonds 2022 Series C&E Revenue Imp & Ref Bonds 2022 Series CAE Revenue Imp & Ref Bonds 2022 Series	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid 426.64 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager:Remarketing Agent,Tender Agent Lead Manager	Aaa Aaa Aaa Aa2 A3;A3;A3;A3;A3;A3	AAA AAA AA+ A-;A-;A-;A-;A-;A-	NR NR NR NR A:A-:A-:A-:A-:A-:A-	Single Family Housing Single Family Housing Single Family Housing Single Family Housing Public Power
Dt 2022A	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022 11/9/2022 11/9/2022 11/16/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) Santa Clara Valley Water	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series L-2 Revenue Imp & Ref Bonds 2022 Series C&E Revenue Imp & Ref Bonds 2022 Series D&F Safe Cidan Water Prog Ref Bonds Series Safe Cidan Water Prog Ref Bonds Series	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid 426.64 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager:Remarketing Agent,Tender Agent Lead Manager	Aaa Aaa Aaa Aa2 A3;A3;A3;A3;A3;A3	AAA AAA AA+ A-;A-;A-;A-;A-;A-	NR NR NR NR A:A-:A-:A-:A-:A-:A-	Single Family Housing Single Family Housing Single Family Housing Single Family Housing Public Power
Dt	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022 11/9/2022 11/9/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) SC Pub Svc Au (Santee Cooper) Santa Clara Valley Water Dt	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K K Single Family Mortgage Bonds 2022 Series L Single Family Mortgage Bonds 2022 Series Single Family Mortgage Bonds Single Family Mortgage Bonds Series Single Family Mortgage Bonds Single Family	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid 426.64 Negotiated Bid 194.85 Negotiated Bid 75.30 Negotiated Bid	Lead Manager Lead Manager Sole Manager;Remarketing Agent,Tender Agent Lead Manager Lead Manager Co-Manager	Aaa Aaa Aa2 A3;A3;A3;A3;A3;A3;A3 A3;A3;A3;A3	AAA AAA AA+ A-;A-;A-;A-;A-;A- NR	NR NR NR A-;A-;A-;A-;A-;A- A-;A-;A-;A-;A- A+;A-;A-;A-;A-	Single Family Housing Single Family Housing Single Family Housing Single Family Housing Public Power Public Power Pollution Control
Education	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022 11/9/2022 11/16/2022 11/16/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) SC Pub Svc Au (Santee Cooper) Sc Pub Svc Au (Santee Cooper) Santa Clara Valley Water Dt Santa Clara Valley Water Dt Santa Clara Valley Water Dt Santa Clara Valley Water	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series L-2 Revenue Imp & Ref Bonds 2022 Series L-2 Revenue Imp & Ref Bonds 2022 Series C&E Revenue Imp & Ref Bonds 2022 Series D&F Safe Clean Water Prog Ref Bonds Series 2022A Safe Clean Water Prog Bonds Series 2022B	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid 426.64 Negotiated Bid 194.85 Negotiated Bid 75.30 Negotiated Bid 46.45 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager, Remarketing Agent, Tender Agent Lead Manager Co-Manager Co-Manager	Aaa Aaa Aa2 A3,A3,A3,A3,A3,A3,A3 A3,A3,A3,A3,A3 Aa1 Aa1	AAA AAA AA+ A-;A-;A-;A-;A-;A- NR NR	NR NR NR A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-	Single Family Housing Public Power Public Power Pollution Control Pollution Control
Bond Bank	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022 11/9/2022 11/9/2022 11/16/2022 11/16/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA) See Fin See Aut Santee Cooper) Santa Clara Valley Water Dt Santa Clara Valley Water Dt Duval Co School Board	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series L-1 Revenue Imp & Ref Bonds 2022 Series L-2 Revenue Imp & Ref Bonds 2022 Series C4E Revenue Imp & Ref Bonds 2022 Series DaF Safe Clean Water Prog Ref Bonds Series 2022A Safe Clean Water Prog Bonds Series 2022A Centificates of Participation Series 2022A	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid 426.64 Negotiated Bid 194.85 Negotiated Bid 75.30 Negotiated Bid 46.45 Negotiated Bid 561.46 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager, Remarketing, Agent, Tender, Agent Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager	Aaa Aaa Aaa Aa2 A3A3A3A3A3A3 A3A3A3A3 Aa1 Aa1 NR:NR	AAA AAA AAA AAA AAAAAAAAAAAAAAAAAAAAAA	NR NR NR NR NR A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-	Single Family Housing Public Power Public Power Pollution Control Pollution Control Primary & Secondary Education
11/17/2022 Indianapolis Loc Pub Imp Revenue Bonds Series 2022J 12.00 Negotiated Bid Sole Manager Aaa NR NR General Purpose/ Public Imp	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022 11/9/2022 11/9/2022 11/16/2022 11/16/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) SC Pub Svc Au (Santee Cooper) Sc Pub Svc Au (Santee Cooper) Dus Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) Dus Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) Dus Dus Colorado Hsg & Fin Auth Dt Dt Dus Colorado Hsg & Fin Auth Dt D	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series L-1 Revenue Imp & Ref Bonds 2022 Series L-2 Revenue Imp & Ref Bonds 2022 Series C4E Revenue Imp & Ref Bonds 2022 Series DaF Safe Clean Water Prog Ref Bonds Series 2022A Safe Clean Water Prog Bonds Series 2022A Centificates of Participation Series 2022A	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid 426.64 Negotiated Bid 194.85 Negotiated Bid 75.30 Negotiated Bid 46.45 Negotiated Bid 561.46 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager, Remarketing, Agent, Tender, Agent Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager	Aaa Aaa Aaa Aa2 A3A3A3A3A3A3 A3A3A3A3 Aa1 Aa1 NR:NR	AAA AAA AAA AAA AAAAAAAAAAAAAAAAAAAAAA	NR NR NR NR NR A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-	Single Family Housing Single Family Housing Single Family Housing Single Family Housing Public Power Public Power Pollution Control Pollution Control Primary & Secondary
11/17/2022 Mississippi Business Fin Exempt Facs Revenue Bonds Series 2022 100.00 Negotiated Bid Co-Manager B1 B+ BB- General Purpose/ Public Imp	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022 11/9/2022 11/9/2022 11/16/2022 11/16/2022 11/17/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) SC Pub Svc Au (Santee Cooper) SC Pub Svc Au (Santee Cooper) Dud Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) Dud Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) Dud Colorado Hsg & Fin Auth (CHFA) Sc Pub Svc Au (Santee Cooper) Dud Colorado Hsg & Fin Auth Dud Color	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series L-1 Revenue Imp & Ref Bonds 2022 Series L-2 Revenue Imp & Ref Bonds 2022 Series CAE Revenue Imp & Ref Bonds 2022 Series CAE Series Imp & Ref Bonds 2022 Series CAE Revenue Bonds Series 2022A Revenue Bonds Series 2022A Revenue Bonds Series 2022A	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid 33.53 Negotiated Bid 426.64 Negotiated Bid 194.85 Negotiated Bid 75.30 Negotiated Bid 46.45 Negotiated Bid 561.46 Negotiated Bid 11.50 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager, Remarketing, Agent, Tender Agent Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager	Aaa Aaa Aaa Aa2 A3,A3,A3,A3,A3,A3 A3,A3,A3,A3 Aa1 Aa1 NR,NR Aaa	AAA AAA AAA AA+ A-;A-;A-;A-;A- NR NR A+;A+ NR	NR NR NR NR NR A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-	Single Family Housing Public Power Public Power Pollution Control Pollution Control Primary & Secondary Education General Purpose/ Public Imp
Corp	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022 11/9/2022 11/9/2022 11/16/2022 11/17/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA) Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) SC Pub Svc Au (Santee Cooper) SC Pub Svc Au (Santee Cooper) Dud Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) Dud Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) Dud Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) Dud Colorado Hsg & Fin Auth Dud Color	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series L-1 Revenue Imp & Ref Bonds 2022 Series L-2 Revenue Imp & Ref Bonds 2022 Series CEE Revenue Imp & Ref Bonds 2022 Series DEF Safe Clean Water Prog Ref Bonds Series 2022A Safe Clean Water Prog Bonds Series 2022A Revenue Bonds Series 2022A Revenue Bonds Series 2022A Revenue Bonds Series 2022J Revenue Bonds Series 2022J Revenue Bonds Series 2022J	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid 33.53 Negotiated Bid 426.64 Negotiated Bid 194.85 Negotiated Bid 75.30 Negotiated Bid 46.45 Negotiated Bid 561.46 Negotiated Bid 11.50 Negotiated Bid 11.50 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager Remarketing Agent; Fender Agent Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager Sole Manager	Aaa Aaa Aaa Aa2 A3,A3,A3,A3,A3,A3 A3,A3,A3,A3 Aa1 Aa1 NR,NR Aaa	AAA AAA AAA AA+ A-;A-;A-;A-;A- NR NR NR NR NR NR NR	NR NR NR NR NR A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-	Single Family Housing Public Power Public Power Public Power Poblution Control Pollution Control Primary & Secondary Education General Purpose/ Public Imp General Purpose/ Public Imp
Auth 11/17/2022 Missouri Joint Municipal Power Supply Sys Rev Bonds Series 2022 43.69 Negotiated Bid Co-Manager A2 NR A Public Power	11/3/2022 11/8/2022 11/8/2022 11/8/2022 11/8/2022 11/9/2022 11/9/2022 11/16/2022 11/17/2022 11/17/2022	Auth Wisconsin Public Finance Auth Colorado Hsg & Fin Auth (CHFA) SC Pub Svc Au (Santee Cooper) The Colorado Hsg & Fin Auth (CHFA) Indianapolis Loc Pub Imp Bond Bank Indianapolis Loc Pub Imp Bond Bank Mississippi Business Fin Corp	Project Revenue Bonds Series 2022A-2 Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series J Single Family Mortgage Bonds 2022 Series K Single Family Mortgage Bonds 2022 Series L-1 Single Family Mortgage Bonds 2022 Series L-2 Revenue Imp & Ref Bonds 2022 Series CAE Revenue Imp & Ref Bonds 2022 Series Series CAE Series CAE	0.34 Negotiated Bid 4.34 Negotiated Bid 35.66 Negotiated Bid 26.47 Negotiated Bid 33.53 Negotiated Bid 33.53 Negotiated Bid 426.64 Negotiated Bid 194.85 Negotiated Bid 75.30 Negotiated Bid 46.45 Negotiated Bid 561.46 Negotiated Bid 11.50 Negotiated Bid 11.50 Negotiated Bid	Lead Manager Lead Manager Lead Manager Sole Manager Remarketing Agent; Fender Agent Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Sole Manager Sole Manager	Aaa Aaa Aaa Aa2 A3,A3,A3,A3,A3,A3 A3,A3,A3,A3 Aa1 Aa1 NR,NR Aaa	AAA AAA AAA AA+ A-;A-;A-;A-;A- NR NR NR NR NR NR NR	NR NR NR NR NR A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-	Single Family Housing Public Power Public Power Public Power Poblution Control Pollution Control Primary & Secondary Education General Purpose/ Public Imp General Purpose/ Public Imp

	Water & Sewer System Bonds Fis 2023 Sub	670.79 Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	AA+;AA+;AA+	Water & Sewer Facilities	
Auth 11/17/2022 NYC Municipal Water Fin	AA-1&3 Water & Sewer System Bonds Fis 2023 Sub	24.92 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
Auth 11/17/2022 NYC Municipal Water Fin	AA-2 Water & Sewer System Bonds Fis 2023 Sub	27.15 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
Auth 11/17/2022 NYC Municipal Water Fin	AA-2 Water & Sewer System Bonds Fis 2023 Sub	27.15 Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
Auth 11/21/2022 Massachusetts Housing	AA-2 Single Family Housing Rev Bonds Series	200.00 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
Fin Agcy 11/29/2022 Connecticut	226 GO Refunding Bonds 2022 Series G-1	29.53 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Primary & Secondary	
11/29/2022 Connecticut	General Obligation Bonds 2022 Series F-1	250.00 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Education Primary & Secondary	
							Education	
11/29/2022 Connecticut	GO Refunding Bonds 2022 Series G-2	225.94 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Primary & Secondary Education	
11/29/2022 Connecticut	GO Refunding Bonds 2022 Series G-3	6.90 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Primary & Secondary Education	
11/29/2022 Connecticut	General Obligation Bonds 2022 Series E-1	77.04 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Primary & Secondary Education	
11/29/2022 Connecticut	General Obligation Bonds 2022 Series E-2	31.61 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Primary & Secondary Education	
11/29/2022 Connecticut	General Obligation Bonds 2022 Series G-3	165.34 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Primary & Secondary	
11/29/2022 Connecticut	General Obligation Bonds 2022 Series G-4	57.03 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Education Primary & Secondary	
11/29/2022 Connecticut	General Obligation Bonds 202 Series E-5	69.00 Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Education Primary & Secondary	
11/30/2022 Williamson Co-Tennessee	GO Public Imp & School Bonds Series 2022	46.05 Competitive Bid	Sole Manager	Aaa	NR	NR	Education Primary & Secondary	
11/30/2022 Knoxville City-Tennessee	Electric Sys Revenue Bonds Series OO-	79.00 Competitive Bid	Sole Manager	Aa2;Aa2	AA-;AA-	NR;NR	Education Public Power	
	2022							
12/1/2022 Texas Dept of Hsg & Comm Affairs	Single Family Mortgage Rev Bonds 2022 Series B	190.00 Negotiated Bid	Lead Manager	Aaa	AA+	NR	Single Family Housing	
12/2/2022 NYS Housing Fin- Mortgage Agcy	Affordable Hsg Rev Bonds 2022 Series G-1	24.69 Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing	
12/2/2022 NYS Housing Fin- Mortgage Agcy	Affordable Housing Rev Bonds 2022 Series G-2	48.13 Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing	
12/7/2022 NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2022	141.10 Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
12/7/2022 NYC Housing Dev Corp	Series F-1 Multi-Family Housing Rev Bonds 2022	354.07 Negotiated Bid	Co-Manager	Aa2;Aa2	AA+;AA+	NR;NR	Multi Family Housing	
12/7/2022 Massachusetts Housing	Series F-2A&B Housing Bonds 2022 Series D-1	21.06 Negotiated Bid	Lead Manager	Aa2;Aa2;Aa2;Aa2;Aa2:A	. AA+;AA+;AA+;AA+;AA+	; NR;NR;NR;NR;NR:NF		
Fin Agcy 12/7/2022 Massachusetts Housing	Housing Bonds 2022 Series D-3	51.07 Negotiated Bid	Lead Manager	a2;Aa2 Aa2;Aa2	AA+ AA+;AA+	;NR NR;NR	Single Family Housing	
Fin Agcy								
12/7/2022 Massachusetts Housing Fin Agcy	Housing Bonds 2022 Series D-2	26.65 Private Bid	Sole Manager	NR	NR	NR	Single Family Housing	
12/8/2022 Massachusetts Housing Fin Agcy	Single Family Hsg Notes Series 2022	31.16 Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
12/8/2022 Los Angeles Dept Wtr & Pwr (LADWP)	Water System Revenue Bonds 2022 Series D	399.69 Negotiated Bid	Lead Manager	Aa2	AA+	AA	Water & Sewer Facilities	
12/9/2022 Alaska Housing Finance Corp	Gen Mortgage Revenue Bonds II 2022 Series C	87.97 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
	Single Family Mortgage Bonds 2022 Series	253.62 Negotiated Bid	Lead Manager	Aa1	NR	NR	Single Family Housing	
12/15/2022 NYC Municipal Water Fin	A Water and Sewer System Bonds Fis 2023	100.00 Negotiated Bid	Sole	Aa1	AA+	AA+	Water & Sewer Facilities	
Auth	Sub BB-1		Manager;Remarketing Agent					
1/11/2023 Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2023-141C	34.67 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
1/11/2023 Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2023-141A	299.00 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
1/13/2023 Georgia Muni Electric Au	Revenue Bonds Series 2023A	61.67 Negotiated Bid	Lead Manager	Baa2	BBB+	BBB+	Public Power	
(MEAG) 1/13/2023 Georgia Muni Electric Au	Revenue Bonds Series 2023B	8.53 Negotiated Bid	Lead Manager	Baa2	BBB+	BBB+	Public Power	
(MEAG)								
1/13/2023 Georgia Muni Electric Au	Revenue Bonds Series 2023B	16.74 Negotiated Bid	Lead Manager	Baa2	BBB+	BBB+	Public Power	
1/13/2023 Georgia Muni Electric Au (MEAG)								
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2023B	44.72 Negotiated Bid	Lead Manager	Baa2	BBB+	BBB+	Public Power	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2023B Revenue Bonds Series 2023A	44.72 Negotiated Bid 128.04 Negotiated Bid	Lead Manager Lead Manager	Baa2 A2	BBB+	BBB+	Public Power Public Power	
1/13/2023 Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid	Lead Manager Lead Manager Lead Manager	Baa2 A2 A3	BBB+ A A	BBB+ BBB+	Public Power Public Power Public Power	
1/13/2023 Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2023B Revenue Bonds Series 2023A	44.72 Negotiated Bid 128.04 Negotiated Bid	Lead Manager Lead Manager	Baa2 A2	BBB+	BBB+	Public Power Public Power	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/18/2023 Wyoming Community Dev	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid	Lead Manager Lead Manager Lead Manager	Baa2 A2 A3	BBB+ A A	BBB+ BBB+	Public Power Public Power Public Power	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/18/2023 Wyoming Community Dev Authority	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022A	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1	BBB+ A A AA+	BBB+ BBB+ NR	Public Power Public Power Public Power Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/18/2023 Wigoming Community Dev Authority 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/27/2023 Triborough Bridge &	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager	Baa2 A2 A3 Aa1	BBB+ A A AA+ NR	BBB+ BBB+ BBB+ NR	Public Power Public Power Public Power Single Family Housing Seeports/ Marine Terminals	
1/13/2023 Georgia Muni Electric Au (MEAG) (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wyoming Community Dev 1/18/2023 Wigmin Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Thobrough Bridge & Tunnel Auth 2/1/2023 Colorado Hag & Fin Auth	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022B General Revenue Ref Bonds Series 2023A Single Family Mortgage Bonds 2023 Series	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR	BBB+ BBB+ NR A	Public Power Public Power Public Power Single Family Housing Seeports/ Marine Terminals Seeports/ Marine Terminals	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/14/2023 Georgia Muni Electric Au (MEAG) 1/18/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Triborough Bridge & Tunnel Auth 2/1/2023 Colorado Hag & Fin Auth (CHFA)	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022B General Revenue Ref Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-18B-2	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 23.53 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 Aa3 Aaa;Aaa	BBB+ A A AA+ NR NR AA- AAA-AAA	BBB+ BBB+ NR A A AA- NR;NR	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/14/2023 Wigming Community Dev Authority 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Triborough Bridge & Turnel Auth 2/1/2023 Colorado Hag & Fin Auth (CHFA) 2/1/2023 Colorado Hag & Fin Auth (CHFA)	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022B General Revenue Ref Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-18B-2 Single Family Mortgage Bonds 2023 Series B-18B-2 Single Family Mortgage Bonds 2023 Series A-1	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 23.53 Negotiated Bid 84.00 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 Aa3 Aaa;Aaa	BBB+ A A AA+ NR NR AA- AAA- AAA- AAA- AAA	BBB+ BBB+ NR A A AA- NR:NR NR	Public Power Public Power Public Power Single Family Housing Sesports/ Marine Terminals Sesports/ Marine Terminals Bridges Single Family Housing Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/143/2023 Wymning Community Dev Authority 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Colorado Hag & Fin Auth (CHFA) 2/1/2023 Colorado Hag & Fin Auth (CHFA) 2/1/2023 Colorado Hag & Fin Auth (CHFA)	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022B Seaport Revenue Refunding Bonds Series 2022B Seaport Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-1-8B-2	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 23.53 Negotiated Bid 84.00 Negotiated Bid 26.09 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 A3 A3 A3 Aa3 AaaAaa Aaa	BBB+ A A AA+ NR NR AA- AAA-AAA AAAAAA AAA	BBB+ BBB+ NR A A AA- NR;NR NR	Public Power Public Power Public Power Single Family Housing Seeports/ Marine Terminals Seeports/ Marine Terminals Bridges Single Family Housing Single Family Housing Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wigerming Community Dev (MEAG) 1/13/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade So-Florida 1/19/2023 Miami-Dade So-Florida 1/19/2023 Miami-Dade So-Florida 1/19/2023 Miami-Dade So-Florida 1/19/2023 Georgia Miami-Dade So-Florida 1/19/2023 Miami-Dade So-Florida	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022B Seaport Revenue Refunding Bonds Series 2022B Single Family Mortgage Bonds 2023 Series B-18B-2 Single Family Mortgage Bonds 2023 Series B-18 Single Family Mortgage Bonds 2023 Series	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 23.53 Negotiated Bid 84.00 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 Aa3 Aaa;Aaa	BBB+ A A AA+ NR NR AA- AAA- AAA- AAA- AAA	BBB+ BBB+ NR A A AA- NR:NR NR	Public Power Public Power Public Power Single Family Housing Sesports/ Marine Terminals Sesports/ Marine Terminals Bridges Single Family Housing Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/18/2023 Wiyoming Community Dev Authority 1/18/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Go-Florida 1/19/2023 Miami-Dade Go-Florida 1/19/2023 Goordad Hag & Fin Auth (CHFA) 1/17/2023 Goordad Hag & Fin Auth (CHFA) 1/7/2023 Goordad Hag & Fin Auth (CHFA) 1/7/2023 Goordad Hag & Fin Auth (CHFA)	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022B General Revenue Ref Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-18B-2 Single Family Mortgage Bonds 2023 Series B-18 Single Family Mortgage Bonds 2023 Series S-15 Single Family Mortgage Bonds 2023 Series E-1 Single Family Mortgage Bonds 2023 Series E-1 Single Family Mortgage Bonds 2023 Series S-15 Single Family Mortgage Bonds 2023 Series S-15 Single Family Mortgage Bonds 2023 Series S-15 Single Family Mortgage Bonds 2023 Series S-16 Single Family Mortgage Bonds 2023 Series	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 23.53 Negotiated Bid 84.00 Negotiated Bid 26.09 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 A3 A3 A3 Aa3 AaaAaa Aaa	BBB+ A A AA+ NR NR AA- AAA-AAA AAAAAA AAA	BBB+ BBB+ NR A A AA- NR;NR NR	Public Power Public Power Public Power Single Family Housing Seeports/ Marine Terminals Seeports/ Marine Terminals Bridges Single Family Housing Single Family Housing Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/18/2023 Wigmin Electric Au (MEAG) 1/18/2023 Miami-Dade Co-Fiorida 1/19/2023 Miami-Dade Co-Fiorida 1/19/2023 Miami-Dade Co-Fiorida 1/19/2023 Miami-Dade Co-Fiorida 1/19/2023 Miami-Dade Go-Fiorida 1/19/2023 Golorado Hag & Fin Auth (CHFA) 1/10/203 Golorado Hag & Fin Auth (CHFA) 1/10/20	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Housing Revenue Refunding Bonds Series 2022B Seaport Revenue Refunding Bonds Series 2022B Series Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-1-8B-2 Single Family Mortgage Bonds 2023 Series B-1-8B-2 Single Family Mortgage Bonds 2023 Series E-1 Single Family Mortgage Bonds 2023 Series C C Single Family Mortgage Bonds 2023 Series C Single Family Mortgage Bonds 2023 Series C	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 23.53 Negotiated Bid 84.00 Negotiated Bid 26.09 Negotiated Bid 3.29 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 A3 Aa3 Aa3 Aaa:Aaa Aaa Aaa Aaa Aaa Aaa Baa1:Baa1:Baa1:Baa1;Baa1;Baa1;Baa1	BBB+ A A AA+ NR NR AA- AAA-AAA AAAAAA AAA AAA AAA AAA AAA	BBB+ BBB+ NR A A AA- NR:NR NR NR	Public Power Public Power Public Power Single Family Housing Sesports/ Marine Terminals Sesports/ Marine Terminals Bridges Single Family Housing Single Family Housing Single Family Housing Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wigmin Community Dev Authority 1/13/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade So-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade So-Florida 1/19/2023 Miami-Dade So-Flor	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Housing Revenue Refunding Bonds Series 2022B Seaport Revenue Refunding Bonds Series 2022B Series Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-1-8B-2 Single Family Mortgage Bonds 2023 Series B-1-8B-2 Single Family Mortgage Bonds 2023 Series E-1 Single Family Mortgage Bonds 2023 Series C C Single Family Mortgage Bonds 2023 Series C Single Family Mortgage Bonds 2023 Series C	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 828.23 Negotiated Bid 84.00 Negotiated Bid 84.00 Negotiated Bid 3.29 Negotiated Bid 3.671 Negotiated Bid 3.671 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 A3 A3 Aa3 Aaa Aaa Aaa Aaa Aaa	BBB+ A A AA+ NR NR AA- AAA- AAA- AAA AAA AAA AAA AAA	BBB+ BBB+ NR A A AA- NR:NR NR NR NR	Public Power Public Power Public Power Single Family Housing Seeports/ Marine Terminals Seeports/ Marine Terminals Bridges Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/14/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/18/2023 Wigmin Community Dev Authority 1/18/2023 Miami-Dade Co-Fiorida 1/19/2023 Miami-Dade Co-Fiorida 1/27/2023 Triborough Bridge & Turnell Auth 1/27/2023 Colorado Heg & Fin Auth CHEA) 2/10/203 Colorado Heg & Fin Auth (CHEA) 2/17/2023 Colorado Heg & Fin Auth	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Housing Revenue Refunding Bonds Series 2022B Seaport Revenue Refunding Bonds Series 2022B Seaport Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-1682-5 Single Family Mortgage Bonds 2023 Series Aingle Family Mortgage Bonds 2023 Series Single Family Mortgage Bonds 2023 Series Consider Family Mor	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 628.23 Negotiated Bid 628.23 Negotiated Bid 628.00 Negotiated Bid 64.00 Negotiated Bid 65.00 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager Sole Manager	Baa2 A2 A3 Aa1 A3 A3 A3 Aa3 Aa3 Aaa Aaa Aaa Aaa Aaa Baa1;Baa1;Baa1;Baa1;Baa1;	BBB+ A A AA+ NR NR AA- AAA- AAA AAA AAA AAA ABBB,BBB,BBB,BBB,BBB,BB	BBB+ BBB+ NR A A AA- NR/NR NR N	Public Power Public Power Public Power Single Family Housing Seeports/ Marine Terminals Seeports/ Marine Terminals Bridges Single Family Housing Higher Education	
1/13/2023 Georgia Muni Electric Au (MEAG) (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wigming Community Dev Authority 1/19/2023 Miami-Dade Co-Florida 1/13/2023 Miami-Dade Co-Florida 1/13/2023 Miami-Dade Co-Florida 1/12/2023 Triborough Bridge & Tunel Auth 2/1/2023 Olorado Hag & Fin Auth (CHFA) 2/1/2023 Colorado Hag & Fin Auth (CHFA)	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Housing Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds 2023 Series B-183-2 Single Family Mortgage Bonds 2023 Series B-183-2 Single Family Mortgage Bonds 2023 Series B-184-2 Single Family Mortgage Bonds 2023 Series S-1 Single Family Mortgage Bonds 2023 Series S-1 Single Family Mortgage Bonds 2023 Series S-1 Revenue Bonds Series 2023A Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series B-1	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 828.23 Negotiated Bid 84.00 Negotiated Bid 84.00 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 46.87 Negotiated Bid 46.87 Negotiated Bid 22.94 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR AA- AAA- AAA AAA AAA AAA AAA AAA AAA A	BBB+ BBB+ NR A A AA- NR:NR NR NR NR NR NR NR	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade So-Florida 1/13/2023 Mismi-Dade So-Florida 1/13/2023 Mismi-Dade So-Florida 1/13/2023 Gorado Hag & Fin Auth (CHFA) 1/17/2023 Mismi-Dade Co-Florida	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Housing Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds 2023 Series B-18B-2 Single Family Mortgage Bonds 2023 Series Single Family Mortgage Bonds 2023 Series B-18B-2 Single Family Mortgage Bonds 2023 Series B-18B-2 Nevenue Bonds Series 2023A Housing Bonds 2023 Series B-1	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 828.23 Negotiated Bid 84.00 Negotiated Bid 84.00 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 46.87 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR AA- AAA- AAA AAA AAA AAA AAA AAA AAA A	BBB+ BBB+ NR A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seeports/ Marine Terminals Seeports/ Marine Terminals Bridges Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Migeni Electric Au (MEAG) 1/13/2023 Migeni Electric Au (MEAG) 1/14/2023 Migeni Dade Co-Florida 1/14/2023 Migeni Dade Se Fin Auth (CHFA) 1/1/2023 Colorado Heg & Fin Auth (CHFA) 1/1/2023 Colorado Heg & Fin Auth (CHFA) 1/1/2023 Migeni Dade Se Fin Auth (CHFA) 1/1/2023 Mig	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Beaport Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds 2023 Series B-183-2 Single Family Mortgage Bonds 2023 Series B-183-2 Single Family Mortgage Bonds 2023 Series B-184-2 Single Family Mortgage Bonds 2023 Series Single Family Mortgage Bonds 2023 Series Single Family Mortgage Bonds 2023 Series Carlos Series Single Family Mortgage Bonds 2023 Series Carlos Bonds 2023 Series A-1 Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series B Housing Bonds 2023 Series B Housing Bonds 2023 Series A-3 Housing Bonds 2023 Series A-3 Housing Bonds 2023 Series A-3	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 828.23 Negotiated Bid 84.00 Negotiated Bid 84.00 Negotiated Bid 36.79 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 46.87 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR AA- AAA- AAA AAA AAA AAA AAA AAA AAA A	BBB+ BBB+ NR A A AA- NR,NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) (MEAG) 1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wismin-Dade Co-Florida 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade So-Florida 1/13/2023 Colorado Hag & Fin Auth (CHFA) 1/17/2023 Colorado Hag & Fin Auth (CHFA) 1/17/2023 Colorado Hag & Fin Auth (CHFA) 1/18/2023 Lissaschusetts Housing Fin Acry 1/18/2023 Missaschusetts Housing	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Housing Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-148-2 Single Family Mortgage Bonds 2023 Series B-148-2 Single Family Mortgage Bonds 2023 Series A-1 Single Family Mortgage Bonds 2023 Series Color Series Bonds 2023 Series B-148-2 Single Family Mortgage Bonds 2023 Series Color Series Bonds 2023 Series B-148-2 Revenue Bonds Series 2023A Housing Bonds 2023 Series B-14 Housing Bonds 2023 Series A-3 Housing Bonds 2023 Series A-3 Housing Bonds 2023 Series A-3	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 828.23 Negotiated Bid 84.00 Negotiated Bid 84.00 Negotiated Bid 36.79 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 46.87 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 7.82 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 A3 A3 Aa3 Aaa Aaa Aaa Aaa Aaa Aaa	BBB+ A A AA+ NR NR AA- AAA- AAA AAA AAA AAA AAA AAA AAA A	BBB+ BBB+ NR A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Migmi Electric Au (MEAG) 1/13/2023 Migmi-Dade Co-Florida 1/13/2023 Migmi-Dade Co-Florida 1/13/2023 Migmi-Dade Co-Florida 1/13/2023 Migmi-Dade Co-Florida 1/27/2023 Migmi-Dade So-Florida 1/27/2023 Migmi-Dade So-Florida 1/27/2023 Colorado Hag & Fin Auth (CHFA) 2/1/2023 Colorado Hag & Fin Auth (CHFA) 2/7/2023	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Beaport Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds 2023 Series B-183-2 Single Family Mortgage Bonds 2023 Series B-183-2 Single Family Mortgage Bonds 2023 Series B-184-2 Single Family Mortgage Bonds 2023 Series Single Family Mortgage Bonds 2023 Series Single Family Mortgage Bonds 2023 Series Carlos Series Single Family Mortgage Bonds 2023 Series Carlos Bonds 2023 Series A-1 Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series B Housing Bonds 2023 Series B Housing Bonds 2023 Series A-3 Housing Bonds 2023 Series A-3 Housing Bonds 2023 Series A-3	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 828.23 Negotiated Bid 84.00 Negotiated Bid 84.00 Negotiated Bid 36.79 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 46.87 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR AA- AAA- AAA AAA AAA AAA AAA AAA AAA A	BBB+ BBB+ NR A A AA- NR,NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing	
1/13/20/23 Georgia Muni Electric Au (MEAG) 1/13/20/23 Migaria Miga	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Sesport Revenue Refunding Bonds Series 2022A Housing Revenue Refunding Bonds Series 2022B Seaport Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-1-8B-2 Single Family Mortgage Bonds 2023 Series B-1-8B-2 Single Family Mortgage Bonds 2023 Series B-1-8B-2 Single Family Mortgage Bonds 2023 Series C-1 Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series A-3	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 828.23 Negotiated Bid 84.00 Negotiated Bid 84.00 Negotiated Bid 36.79 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 46.87 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 7.82 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 A3 A3 Aa3 Aaa Aaa Aaa Aaa Aaa Aaa	BBB+ A A AA+ NR NR AA- AAA- AAA AAA AAA AAA AAA AAA AAA A	BBB+ BBB+ NR A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Migni Electric Au (MEAG) 1/14/2023 Colorado Hag & Fin Auth (MEAG) 1/14/2023 Migni Elter Housing 1/14/2023 Migni Elter Housing 1/14/2023 Migni Elter Housing 1/14/2023 Migni Elter Housing	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Housing Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds 2023 Series B-1 481-2 Single Family Mortgage Bonds 2023 Series B-1 481-2 Single Family Mortgage Bonds 2023 Series B-1 481-2 Single Family Mortgage Bonds 2023 Series College Family Mortgage Bonds 2023 Series B-1 Housing Bonds 2023 Series B-1 Housing Bonds 2023 Series A-3	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 828.23 Negotiated Bid 84.00 Negotiated Bid 84.00 Negotiated Bid 36.79 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 46.87 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 7.82 Negotiated Bid 11.44 Negotiated Bid 11.44 Negotiated Bid 63.34 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 A3 A3 Aa3 Aaa Aaa Aaa Aaa Aaa Aaa	BBB+ A A AA+ NR NR AA- AAA- AAA AAA AAA AAA AAA AAA AAA A	BBB+ BBB+ NR A A AA- NR,NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/14/2023 Migni Electric Au (MEAG) 1/14/2023 Colorado Hag & Fin Auth (MEAG	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Housing Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds 2023 Series B-1 48-2 Single Family Mortgage Bonds 2023 Series B-1 48-2 Single Family Mortgage Bonds 2023 Series B-1 48-2 Single Family Mortgage Bonds 2023 Series Company Mortgage Bonds 2023 Series B-1 48-2 Single Family Mortgage Bonds 2023 Series B-1 48-2 Single Family Mortgage Bonds 2023 Series Company Mortgage Bonds 2023 Series B-1 48-2 Revenue Bonds Series 2023A Housing Bonds 2023 Series B-1 Housing Bonds 2023 Series B-1 Housing Bonds 2023 Series A-3 Future Tax Secured Sub Bonds Fis 2023 Series SubE-1	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 828.23 Negotiated Bid 828.23 Negotiated Bid 84.00 Negotiated Bid 84.00 Negotiated Bid 36.79 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 46.87 Negotiated Bid 22.94 Negotiated Bid 7.82 Negotiated Bid 11.44 Negotiated Bid 11.44 Negotiated Bid 63.34 Negotiated Bid 63.34 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR AA- AAAAAA AAA AAA AAA AAA AAA AAA AAA	BBB+ BBB+ NR A A AA- NR:NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing General Purpose/ Public Imp	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Migni Electric Au (MEAG) 1/14/2023 Colorado Hag & Fin Auth (MEAG) 1/14/2023 Migni Electric Au (MEAG) 1/14/2023 Colorado Hag & Fin Auth (MEAG	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-1 8b-2 Single Family Mortgage Bonds 2023 Series B-18b-2 Single Family Mortgage Bonds 2023 Series B-18b-2 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series B-1 Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series B-1 Housing Bonds 2023 Series A-3	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 12.81 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 24.00 Negotiated Bid 26.09 Negotiated Bid 26.09 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 22.94 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 11.44 Negotiated Bid 11.44 Negotiated Bid 11.44 Negotiated Bid 11.77.60 Negotiated Bid 1.077.60 Negotiated Bid 40.00 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 A3 A3 A3 Aa3 Aaa Aaa Aaa Aaa Aaa	BBB+ A A AA+ NR NR NR AA- AAAAAA AAA AAA AAA AAA AAA AAA AA+ AAA+ AA+ AA+ AA+ AA+ AAA AAA AA+ AAA AAA AA+ AAA AAA AAA AA+ AAA AAA+ AAA AAA AA+ AAA AAA+ AAA AAA+ AAA+ AAA	BBB+ BBB+ NR A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wigmin Community Dev Authority 1/13/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Fo-Florida 1/19/2023 Miami-Dade Fo-Florida 1/19/2023 Miami-Dade Fin Auth (CHFA) 2/10/203 Goordad Hag A Fin Auth (CHFA) 2/10/203 Miamaschusetts Housing Fin Agry 2/10/203 Miasachusetts Housing Authority 2/10/203 Manie State Housing Authority 2/10/203 San Francisco City & Co Aliprot Comm	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-1 8b-2 Single Family Mortgage Bonds 2023 Series B-18b-2 Single Family Mortgage Bonds 2023 Series B-18b-2 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series B-1 Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series B-1 Housing Bonds 2023 Series A-3 Housing Bonds	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 24.00 Negotiated Bid 25.09 Negotiated Bid 26.09 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 46.87 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 11.44 Negotiated Bid 11.44 Negotiated Bid 11.77.60 Negotiated Bid 40.00 Negotiated Bid 40.00 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR NR AA- AAAAAA AAA AAA AAA AAA AAA AAA AAA	BBBH BBBH NR A A AA- NR:NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing Arports	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wigmin Electric Au (MEAG) 1/13/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Go-Florida 1/19/2023 Miami-Dade Sin Auth (CHFA) 2/1023 Georgia Muni Capacha Sin Auth (CHFA) 2/1023 Goorgia Meag & Fin Auth (CHFA) 2/1023 Goorgia Meagachusetts Housing Fin Agry 2/10223 Miansachusetts Housing Fin Agry 2/10223 Miansachusetts Housing Fin Agry 2/10223 Mians State Housing 2/10223 Manie State Housing 2/10223 Manie State Housing 2/10223 Manie State Housing 2/10223 San Francisco City & Co Alizort Comm	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022B Seaport Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-18b-2 Single Family Mortgage Bonds 2023 Series B-18b-2 Single Family Mortgage Bonds 2023 Series B-18b-2 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series B-1 Housing Bonds Series 2023A Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series A-3	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 23.53 Negotiated Bid 24.00 Negotiated Bid 25.09 Negotiated Bid 26.09 Negotiated Bid 26.09 Negotiated Bid 27.09 Negotiated Bid 28.74 Negotiated Bid 128.74 Negotiated Bid 29.94 Negotiated Bid 29.94 Negotiated Bid 3.50 Negotiated Bid 1.78.00 Negotiated Bid 1.79.51 Negotiated Bid 162.41 Negotiated Bid 162.41 Negotiated Bid 163.50 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 A3 A3 Aa3 Aaa Aaa Aaa Aaa Aaa Aaa	BBB+ A A AA+ NR NR NR AA- AAAAAA AAA AAA AAA AAA AAA AAA AAA	BBB+ BBB+ NR A A AA- NR:NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing General Purpose/ Public Imp Single Family Housing Airports Airports General Purpose/ Public Imp	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wigmin Electric Au (MEAG) 1/18/2023 Wigmin Electric Au (MEAG) 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Go-Florida 1/19/2023 Miami-Dade Sin Auth (CHFA) 1/1/2023 Colorado Hag & Fin Auth (CHFA) 1/1/2023 Gordado Hag & Fin Auth (CHFA) 1/1/2023 Colorado Hag & Fin Auth (CHFA) 1/1/2023 Sa Francisco City & Co Autort Comm 1/1/2023 Sa Georgent of the University of California	Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds 2023 Series B-148-2 Single Family Mortgage Bonds 2023 Series B-148-2 Single Family Mortgage Bonds 2023 Series B-148-2 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series B-1 Housing Bonds Series 2023A Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series B-1 Housing Bonds 2023 Series A-3 Housing Bonds 2023 Series B-0 Second Series Rev Ref Bonds Series 2023A Transmission Contract Ref Bonds Series 2023A General Revenue Bonds 2023 Series B-0	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 23.53 Negotiated Bid 24.00 Negotiated Bid 25.09 Negotiated Bid 26.09 Negotiated Bid 3.29 Negotiated Bid 3.29 Negotiated Bid 3.6.71 Negotiated Bid 128.74 Negotiated Bid 128.74 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 1.78.0 Negotiated Bid 1.78.0 Negotiated Bid 11.44 Negotiated Bid 11.47 Negotiated Bid 11.77.60 Negotiated Bid 1.077.60 Negotiated Bid 1.077.60 Negotiated Bid 1.078.0 Negotiated Bid 1.079.51 Negotiated Bid 162.41 Negotiated Bid 162.41 Negotiated Bid 162.41 Negotiated Bid 162.41 Negotiated Bid 163.50 Negotiated Bid 162.41 Negotiated Bid 163.50 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR NR AA- AAA,AAA AAA AAA AAA AAA AAA AAA AAA	BBBH BBBH NR A A AA- NR:NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing General Purpose/ Public Imp Single Family Housing Airports Airports General Purpose/ Public Imp Higher Education	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wigmin Electric Au (MEAG) 1/13/2023 Miami-Dade Co-Florida 1/13/2023 Miami-Dade Si Fin Auth (CHEA) 1/12/2023 Georgia Muni Chef & Fin Auth (CHEA) 1/12/2023 Georgia Muni Chef & Fin Auth (CHEA) 1/12/2023 Georgia Men & Fin Auth (CHEA) 1/12/2023 Miassachusetts Housing Fin Agoy 1/12/2023 Miassachusetts Housing 1/13/2023 Miassachusetts Housing 1/13/2023 Miassachusetts Housing 1/13/2023 San Francisco City & Co- 1/15/2023 Regents of the University	Revenue Bonds Series 2023B Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Series 2022A General Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-1-8B-2 Single Family Mortgage Bonds 2023 Series B-1-8B-2 Single Family Mortgage Bonds 2023 Series B-1-8B-2 Single Family Mortgage Bonds 2023 Series B-1 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series D-1 Revenue Bonds Series 2023A Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series A-3 Future Tax Secured Sub Bonds Fis 2023 Serie SubE-1 Mortgage Purchase Bonds 2023 Series A Second Series Rev Ref Bonds Series 2023A Transmission Contract Ref Bonds Series 2023A Transmission Contract Ref Bonds Series 2023A General Revenue Bonds 2023 Series BO General Revenue Bonds 2023 Series BO	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 23.53 Negotiated Bid 24.00 Negotiated Bid 25.09 Negotiated Bid 26.09 Negotiated Bid 36.71 Negotiated Bid 128.74 Negotiated Bid 15.00 Negotiated Bid 17.82 Negotiated Bid 17.82 Negotiated Bid 11.44 Negotiated Bid 11.44 Negotiated Bid 11.47 Negotiated Bid 11.47 Negotiated Bid 11.47 Negotiated Bid 15.25 Negotiated Bid 15.26 Negotiated Bid 15.26 Negotiated Bid 15.26 Negotiated Bid 162.41 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR NR AA- AAA,AAA AAA AAA AAA AAA AAA AAA AA+ AA+	BBB+ BBB+ NR A A A A A A A A A NR,NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing General Purpose/ Public Imp Single Family Housing Airports Airports General Purpose/ Public Imp Higher Education Higher Education	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/14/2023 Mismi-Dade Co-Florida 1/19/2023 Mismi-Dade Co-Florida 1/19/2023 Mismi-Dade Co-Florida 1/19/2023 Mismi-Dade So-Florida 1/19/2023 Mismi-Dade So-Florida 1/19/2023 Triborough Bridge & Tinunel Auth (CHFA) 1/1/2023 Colorado Hag & Fin Auth (CHFA) 1/1/2023 Mismassachusetts Housing Fin Agy 1/1/2023 Mismassachuse	Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds 2023 Series B-148-2 Single Family Mortgage Bonds 2023 Series B-148-2 Single Family Mortgage Bonds 2023 Series B-148-2 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series B-1 Housing Bonds Series 2023A Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series B-1 Housing Bonds 2023 Series A-3 Housing Bonds 2023 Series B-0 Second Series Rev Ref Bonds Series 2023A Transmission Contract Ref Bonds Series 2023A General Revenue Bonds 2023 Series B-0	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 23.53 Negotiated Bid 24.00 Negotiated Bid 25.09 Negotiated Bid 26.09 Negotiated Bid 3.29 Negotiated Bid 3.29 Negotiated Bid 3.6.71 Negotiated Bid 128.74 Negotiated Bid 128.74 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 1.78.0 Negotiated Bid 1.78.0 Negotiated Bid 11.44 Negotiated Bid 11.47 Negotiated Bid 11.77.60 Negotiated Bid 1.077.60 Negotiated Bid 1.077.60 Negotiated Bid 1.078.0 Negotiated Bid 1.079.51 Negotiated Bid 162.41 Negotiated Bid 162.41 Negotiated Bid 162.41 Negotiated Bid 162.41 Negotiated Bid 163.50 Negotiated Bid 162.41 Negotiated Bid 163.50 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR NR AA- AAA,AAA AAA AAA AAA AAA AAA AAA AAA	BBBH BBBH NR A A AA- NR:NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing General Purpose/ Public Imp Single Family Housing Airports Airports General Purpose/ Public Imp Higher Education	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wigmin Electric Au (MEAG) 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade Fo-Florida 1/13/2023 Mismi-Dade Fo-Florida 1/13/2023 Mismi-Dade Fo-Florida 1/13/2023 Mismi-Dade Fin Auth (CHFA) 1/17/2023 Colorado Hag & Fin Auth (CHFA) 1/17/2023 Col	Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-18B-2 Housing Bonds 2023 Series B-18B-2 Housing Bonds 2023 Series B-3B-2 Housing Bonds 2023 Series A-3B-2 Future Tax Secured Sub Bonds Fis 2023 Serie SubE-1B-2 Mortgage Purchase Bonds 2023 Series A Second Series Rev Ref Bonds Series 2023A Transmission Contract Ref Bonds Series 2023A Transmission Contract Ref Bonds Series 2023A General Revenue Bonds 2023 Series BN Water and Sewer System Bonds Fiscal 2023 Series BN	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 12.81 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 23.53 Negotiated Bid 26.09 Negotiated Bid 36.71 Negotiated Bid 36.71 Negotiated Bid 22.94 Negotiated Bid 23.50 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 11.44 Negotiated Bid 11.771.60 Negotiated Bid 40.00 Negotiated Bid 40.00 Negotiated Bid 1.077.60 Negotiated Bid 1.077.60 Negotiated Bid 3.50 Negotiated Bid 1.077.60 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR NR AA- AAA- AAA AAA AAA AAA AAA AAA AAA A	BBB+ BBB+ BBB+ NR A A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Sringle Family Housing Single Family Housing General Purpose/ Public Imp Single Family Housing Airports Airports Airports Higher Education Higher Education Higher Education Water & Sewer Facilities	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Wyoming Community Dev Authority 1/13/2023 Mismi-Dade Co-Florida 1/19/2023 Mismi-Dade Co-Florida 1/19/2023 Mismi-Dade Co-Florida 1/19/2023 Mismi-Dade Fo-Florida 1/19/2023 Mismi-Dade Fo-Florida 1/19/2023 Mismi-Dade Fo-Florida 1/19/2023 Mismi-Dade Fin Auth (CHFA) 1/1/2023 Colorado Hag & Fin Auth (CHFA) 1/1/2023 Missachusetts Housing Fin Agv 1/1/2023 Missachusetts Housing	Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2022A Single Family Mortgage Bonds 2023 Series B-18b-2 Single Family Mortgage Bonds 2023 Series B-18 Bernes Bonds Bernes 2023 Bernes Bonds	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 12.81 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 23.53 Negotiated Bid 26.09 Negotiated Bid 36.71 Negotiated Bid 36.71 Negotiated Bid 22.94 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 11.44 Negotiated Bid 11.77.60 Negotiated Bid 1.077.60 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3 A3 A3 A3 A3 A33 A33 A33 A33 A33 A33	BBB+ A A AA+ NR NR NR AA- AAA- AAA AAA AAA AAA AAA AAA AAA A	BBB+ BBB+ NR A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Sringle Family Housing Single Family Housing General Purpose/ Public Imp Higher Education Higher Education Higher Education Water & Sewer Facilities General Purpose/ Public Imp	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Mismi-Dade Co-Flortda 1/13/2023 Mismi-Dade So-Flortda 1/13/2023 Corado Hag & Fin Auth (CHFA) 1/17/2023 Gorado Hag & Fin Auth (CHFA) 1/17/2023 Missachusetts Housing 1/18/2023 Missachusetts Housing 1/18/2023 Missachusetts Housing 1/18/2023 Missachusetts Housing 1/18/2023 Basachusetts Housing 1/18/2023 Basachusetts Housing 1/18/2023 Regents of the University of California 1/18/2023 New York City-New York 1/18/2023 Missachusetts Housing	Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-183-2 Single Family Mortgage Bonds 2023 Series B-183-2 Single Family Mortgage Bonds 2023 Series B-184-2 Single Family Mortgage Bonds 2023 Series Del Revenue Bonds Series 2023A Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series A-3 Future Tax Secured Sub Bonds Fis 2023 Ser EsubE-1 Mortgage Purchase Bonds Series 2023A Transmission Contract Ref Bonds Series 2023A General Revenue Bonds 2023 Series BO General Revenue Bonds 2023 Series BO General Revenue Bonds Series 2023A Water and Sewer System Bonds Fis 2023 Series CaD Single Family Housing Rev Bonds Series 2023	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 12.81 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 23.53 Negotiated Bid 26.09 Negotiated Bid 36.71 Negotiated Bid 36.71 Negotiated Bid 22.94 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 11.44 Negotiated Bid 11.77.60 Negotiated Bid 1.077.60 Negotiated Bid 3.50 Negotiated Bid 1.077.60 Negotiated Bid 1.078.00 Negotiated Bid 1.079.00 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 Aa1 A3	BBB+ A A AA+ NR NR NR AA- AAA- AAA AAA AAA AAA AAA AAA AAA A	BBB+ BBB+ BBB+ NR A A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Sringle Family Housing Single Family Housing General Purpose/ Public Imp Single Family Housing Airports Airports Airports General Purpose/ Public Imp Higher Education Water & Sewer Facilities General Purpose/ Public Imp Single Family Housing General Purpose/ Public Imp Single Family Housing General Purpose/ Public Imp Single Family Housing	
1/13/20/23 Georgia Muni Electric Au (MEAG) 1/18/20/23 Wyorning Community Dev Meaga Authority 1/18/20/23 Miami-Dade Co-Florida 1/19/20/23 Miami-Dade Co-Florida 1/19/20/23 Miami-Dade Co-Florida 1/19/20/23 Miami-Dade Fo-Florida 1/19/20/23 Miami-Dade Fo-Florida 1/19/20/23 Miami-Dade Fin Auth (CHFA) 2/19/20/23 Cortado Heg & Fin Auth (CHFA) 2/19/20/23 Gordad Heg & Fin Auth (CHFA) 2/19/20/23 Miassachusetts Housing Fin Agoy 2/19/20/23 Miassachusetts Housing Pin Agoy 2/19/20/23 Miassachusetts Housing Pin Agoy 2/19/20/23 Miassachusetts Housing Agoy 2/19/20/23 Miassachusetts Housing Pin Agoy 2/19/20/23 Miassachusetts Housing Pin Agoy 2/19/20/23 Miassachusetts Housing Pin Agoy 2/19/20/23 Miassachusetts Housing Authority 2/15/20/23 San Francisco City & Co Agord Communication City & Co Ag	Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-148-2 Single Family Mortgage Bonds 2023 Series Series B-148-2 Single Family Mortgage Bonds 2023 Series B-148-2 Housing Bonds 2023 Series A-1 Housing Bonds 2023 Series A-3 Future Tax Secured Sub Bonds Fis 2023 Series SubE-1 Mortgage Purchase Bonds 2023 Series A Second Series Rev Ref Bonds Series 2023A Transemission Contract Ref Bonds Series 2023A Transemission Contract Ref Bonds Series 2023A General Revenue Bonds 2023 Series BN Water and Sever System Bonds Fis 2023 Series CAD Single Family Housing Rev Bonds Series 223	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 12.81 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 24.00 Negotiated Bid 26.09 Negotiated Bid 36.71 Negotiated Bid 36.71 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 11.44 Negotiated Bid 11.77.60 Negotiated Bid 40.00 Negotiated Bid 40.00 Negotiated Bid 1.077.60 Negotiated Bid 1.077.60 Negotiated Bid 1.79.51 Negotiated Bid 1.79.50 Negotiated Bid 1.79.60 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 A41 A3 A43 A43 A43 A43 A44 A44 A44 A44 A44	BBB+ A A AA+ NR NR NR AA- AAAAAA AAA AAA AAA AAA AAA AAA AAA	BBBH BBBH NR A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing General Purpose/ Public Imp Higher Education Higher Education Water & Sewer Facilities General Purpose/ Public Imp Single Family Housing Single Family Housing General Purpose/ Public Imp Higher Education Water & Sewer Facilities General Purpose/ Public Imp Single Family Housing Single Family Housing Single Family Housing	
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1/13/2023 Georgia Muni Electric Au (MEAG) 1/14/2023 Wyroming Community Dev (MEAG) 1/14/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Miami-Dade Co-Florida 1/19/2023 Triborough Bridge & Tin Auth (CHFA) 1/17/2023 Goordad Heg & Fin Auth (CHFA) 1/17/2023 Massachusetts Housing Fin Agy 1/18/2023 Massachusetts Housing 1/18/2023 Massachuse	Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Housing Revenue Refunding Bonds Series 2022A Series Bonds Series 2023A Series Bonds Series 2023A Single Family Mortgage Bonds 2023 Series Bonds Family Mortgage Bonds 2023 Series Bonds Family Mortgage Bonds 2023 Series Bonds Family Mortgage Bonds 2023 Series Consider Family Mortgage Bonds 2023 Series Andeusing Bonds 2023 Series Bondeusing Series Bonds Series 2023A Transmission Contract Ref Bonds Series 2023A Transmission Contract Ref Bonds Series 2023A Transmission Contract Ref Bonds Series 2023 Series Bondeusing Revenue Bonds 2023 Series Bondeusing Revenue Bonds Series 2023 Series Bondeusing Revenue Bonds Series 2023 Series Bondeusing Housing Rev Bonds Series 2023 Single Family Housing Rev Bonds Series 2023 Single Family Housing Rev Bonds Series 2027 Revenue Bonds Series Bonds Series 2028 Revenue Bonds Series Bonds Series 2028 Revenue Bonds Series Bonds Series 2028 Revenue Bonds Series Bon	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 12.81 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 24.00 Negotiated Bid 26.09 Negotiated Bid 36.71 Negotiated Bid 36.71 Negotiated Bid 46.87 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 11.44 Negotiated Bid 11.75.00 Negotiated Bid 1.79.50 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 A41 A3 A43 A43 A43 A43 A44 A44 A44 A44 A44	BBB+ A A AA+ NR NR NR AA- AAAAAA AAA AAA AAA AAA AAA AAA AAA	BBBH BBBH NR A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing General Purpose/ Public Imp Higher Education Higher Education Water & Sewer Facilities General Purpose/ Public Imp Single Family Housing Single Family Housing General Purpose/ Public Imp Higher Education Water & Sewer Facilities General Purpose/ Public Imp Single Family Housing Single Family Housing Single Family Housing	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Miami-Dade Co-Florida 1/13/2023 Miami-Dade Co-Florida 1/13/2023 Miami-Dade Co-Florida 1/13/2023 Miami-Dade Co-Florida 1/13/2023 Triborough Bridge & Tunnel Auth (CHFA) 2/1/2023 Colorado Hag & Fin Auth (CHFA) 2/1/2023 Massachusetts Housing Fin Agy 2/1/2023 Massachusetts Housing 2/1/2023 New York City New York 2/2/2023 New York City New York 2/2/2023 New Sork Dept of Hag & Comm Affairs 3/3/2023 Michigan St Hag Bow Au	Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Beautiful Series 2023A General Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-14B-2 Single Family Mortgage Bonds 2023 Series B-14B-2 Single Family Mortgage Bonds 2023 Series E-1 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series C-1 Single Family Mortgage Bonds 2023 Series C-1 Housing Bonds 2023 Series A-2 Housing Bonds 2023 Series A-3 Future Tax Secured Sub Bonds Fis 2023 Serie SubE-1 Mortgage Purchase Bonds 2023 Series A Second Series Rev Ref Bonds Series 2023A Transmission Contract Ref Bonds Series 2023A General Revenue Bonds 2023 Series BN Water and Sewer System Bonds Fiscal 2023 Series Single Family Housing Rev Bonds Series 228 Single Family Housing Rev Bonds Series 228 Single Family Housing Rev Bonds Series 223 Revenue Bonds Series Ponds Series 223	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 12.81 Negotiated Bid 23.53 Negotiated Bid 23.53 Negotiated Bid 24.00 Negotiated Bid 26.09 Negotiated Bid 36.71 Negotiated Bid 36.71 Negotiated Bid 22.94 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 3.50 Negotiated Bid 11.44 Negotiated Bid 11.77.60 Negotiated Bid 1.077.60 Negotiated Bid 1.077.60 Negotiated Bid 162.41 Negotiated Bid 162.55 Negotiated Bid 179.51 Negotiated Bid 179.51 Negotiated Bid 162.75 Negotiated Bid 179.51 Negotiated Bid 163.76 Negotiated Bid 163.76 Negotiated Bid 163.77 Negotiated Bid 177 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 A41 A3 A43 A43 A43 A43 A44 A44 A44 A44 A44	BBB+ A A AA+ NR NR NR AA- AAAAAA AAA AAA AAA AAA AAA AAA AA+ AA+	BBBH BBBH BBBH NR A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Sringle Family Housing Single Family Housing General Purpose/ Public Imp Higher Education Higher Education Water & Sewer Facilities General Purpose/ Public Imp Single Family Housing Single Family Housing Single Family Housing Higher Education Water & Sewer Facilities General Purpose/ Public Imp Single Family Housing Single Family Housing Single Family Housing Higher Education	
1/13/2023 Georgia Muni Electric Au (MEAG) 1/13/2023 Mismi-Dade Co-Florida 1/13/2023 Mismi-Dade Sin Auth (CHFA) 2/11/2023 Colorado Hag & Fin Auth (CHFA) 2/11/2023 Colorado Hag & Fin Auth (CHFA) 2/17/2023 Colorado Hag & Fin Auth (CHFA) 2/17/2023 Colorado Hag & Fin Auth (CHFA) 2/17/2023 Colorado Hag & Fin Auth (CHFA) 2/18/2023 Missachusetts Housing Fin Agry 2/18/2023 Missachusetts Housing Fin Agry 2/18/2023 Missachusetts Housing Fin Agry 2/18/2023 Missachusetts Housing 2/18/2023 Regents of the University 2/18/2023 Regents of the University 2/18/2023 Missachusetts Housing 2/18/2023 Regents of the University 2/18/2023 Missachusetts Housing 2/18/2023 Regents of the University 2/18/2023 Missachusetts Housing 2/18/2023 Regents of the University 2/18/2023 Regents of the University 2/18/2023 Regents of the University 2/18/2023 Missachusetts Housing 2/18/2023 Missachusetts Housing 2/18/2023 Missachusetts Housing 2/18/2023 Missachusetts Housing 2/18/2023 Regents of the University 2/18/2023 Missachusetts Housing 2/18/2023 Regents of the University 2/18/2023 Missachusetts Housing 2/18/2023 Missachusetts Housing 2/18/2023 Missachusetts Hou	Revenue Bonds Series 2023A Revenue Bonds Series 2023A Revenue Bonds Series 2023A Housing Revenue Bonds 2023 Series 1 Seaport Revenue Refunding Bonds Series 2022A Seaport Revenue Refunding Bonds Series 2023A Single Family Mortgage Bonds 2023 Series B-1 88-2 Single Family Mortgage Bonds 2023 Series Congresia Family Mortgage Bonds 2023 Series B-1 88-2 Single Family Mortgage Bonds 2023 Series Congres Family Mortgage Bonds 2023 Series B-1 88-2 Single Family Mortgage Bonds 2023 Series Congres Family Mortgage Bonds 2023 Series Congres Family Mortgage Bonds 2023 Series Devenue Bonds 2023 Series A-1 Housing Bonds 2023 Series A-3 Future Tax Secured Sub Bonds Fis 2023 Serie SubE-1 Mortgage Purchase Bonds 2023 Series A Second Series Rev Ref Bonds Series 2023A Transmission Contract Ref Bonds Series BN Water and Sewer System Bonds Fis 2023 Series BN Water and Sewer System Bonds Fis 2023 Series CAD Single Family Housing Rev Bonds Series 227 Revenue Bonds Series N Residential Mortgage Rev Bonds Series 2023A	44.72 Negotiated Bid 128.04 Negotiated Bid 192.37 Negotiated Bid 117.51 Negotiated Bid 117.51 Negotiated Bid 522.00 Negotiated Bid 22.81 Negotiated Bid 23.53 Negotiated Bid 23.53 Negotiated Bid 24.60 Negotiated Bid 25.50 Negotiated Bid 26.09 Negotiated Bid 36.71 Negotiated Bid 36.71 Negotiated Bid 36.71 Negotiated Bid 36.71 Negotiated Bid 37.74 Negotiated Bid 37.75 Negotiated Bid	Lead Manager Lead Manager Lead Manager Co-Manager	Baa2 A2 A3 A41 A3 A43 A43 A43 A44 A44 A44 A44 A44 A41 A41 A41 A41 A41	BBB+ A A AA+ NR NR NR AA- AAAAAA AAA AAA AAA AAA AAA AAA AA+ AA+	BBBH BBBH BBBH NR A A AA- NR.NR NR N	Public Power Public Power Public Power Single Family Housing Seaports/ Marine Terminals Seaports/ Marine Terminals Bridges Single Family Housing General Purpose/ Public Imp Single Family Housing Airports Airports General Purpose/ Public Imp Higher Education Water & Sewer Facilities General Purpose/ Public Imp Single Family Housing Single Family Housing Single Family Housing Higher Education Water & Sewer Facilities General Purpose/ Public Imp Single Family Housing Single Family Housing Single Family Housing Higher Education Single Family Housing	

March Colores March Colores March Colores March Colores March Marc	3/3/2023 Michigan St Hsg Dev Au	Rental Housing Revenue Bonds 2023	17.91 Negotiated Bid	Co-Manager	NR	AA+	NR	Multi Family Housing	5.27
Section	(MSHDA) 3/8/2023 California	Series B Various Purpose GO Bonds	1,804.06 Negotiated Bid	Co-Manager	Aa2	AA-	AA	General Purpose/ Public Imp	2.27
Accordance Acc	3/9/2023 Texas Natural Gas Sec Fin	Customer Rate Relief Bonds Series 2023	3,521.75 Negotiated Bid	Co-Manager	Aaa;Aaa	NR;NR	AAA;AAA	Gas	3.84
2015 2015	Corp								4.72
March Marc	Auth	2023 Series DD							5.00
Ministry	Auth	Series F&F1							0.00
Transport	Mortgage Agcy								
The Control of the		Homeowner Mtg Rev Bonds Series 251	34.15 Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
According to Company		Senior Sales Tax Bonds 2023 Subseries A-1	509.66 Negotiated Bid	Lead Manager	NR	AA	AAA	Mass Transportation	2.48
## 2000 Section (1997)	3/16/2023 Massachusetts Bay	Senior Sales Tax Bonds 2023 Subseries A-2	108.01 Negotiated Bid	Lead Manager	NR	AA	AAA	Mass Transportation	0.53
2002000 Montane 1			49.61 Negotiated Bid	Lead Manager	Aa1	NR	NR	Single Family Housing	
March Marc	3/17/2023 Idaho Housing & Fin Assoc		80.29 Negotiated Bid	Lead Manager	Aa1	NR	NR	Single Family Housing	
Security Mills Continuency Free Continuency Aut Mill Continuency Aut Mill Continuency Continuency Aut Mills Continuency Continuency Continuency Aut Mill Continuency Continuency Continuency Aut Mills Continuency Continuency Continuency Aut Mill Continuency Continuency Continuency Aut Mills Continuency Continuency Continuency Aut Mill Continuency Continuency Continuency Aut Continuency Aut Aut Continuency Aut		A Affordable Housing Revenue Bonds 2023	111.20 Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing	
March Marc			86.20 Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing	0.79
March Marc	Mortgage Agcy	Series A-2	•		Δα2-Δα2	NR·NR		· · · · · · · · · · · · · · · · · · ·	1.33
West	Mortgage Agcy	Series A-2							
	Mortgage Agcy	Series B-1							0.32
Second Content	Mortgage Agcy	Series B-2							1.15
March Marc		General Obligation Bonds Fis 2023 Series E	950.00 Negotiated Bid	Co-Manager	Aa2	AA	AA	General Purpose/ Public Imp	
ACCOST Procession Communication Control (1975)	3/30/2023 Michigan St Hsg Dev Au (MSHDA)		314.87 Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	7.01
March March Entropy March Ma	4/4/2023 Pennsylvania Econ Dev Fin		89.28 Negotiated Bid	Lead Manager	A2	A	A	Economic Development	
4-00000	4/4/2023 Monroeville Finance	UPMC Revenue Bonds Series 2023C	36.82 Negotiated Bid	Co-Manager	A2	A	A	General Acute Care Hospital	
Activities Process P		UPMC Revenue Bonds Series 2023 A	200.00 Negotiated Bid	Co-Manager	A2	A	A	General Acute Care Hospital	2.44
Column		UPMC Revenue Bonds Series 2023 A		Co-Manager	A2	A	A	General Acute Care Hospital	2.30
Column	Auth			Co-Manager	Aaa;Aaa:Aaa			Single Family Housing	4.72
Column	(CHFA)	F-1 & G							
Contract	(CHFA)	F-1	<u> </u>	•					1.99
April Control Contro		2023		·					2.31
## 470000 Normal Cop Manual Part Assert State State From Manual Cop Manual State From Manual		Multi-Family/Project Bonds 2023 Series A	16.08 Negotiated Bid	Lead Manager	Aaa			Multi Family Housing	
APP-1002 Names Cay Manual Speed Chapters Brond Science (2014) Beginned that Solid Reverger No. A. A. A. A. A. A. A.	4/5/2023 Idaho Housing & Fin Assoc	Single Family Mortgage Bonds 2023 Series B-2	25.61 Negotiated Bid		Aa1	NR	NR	Single Family Housing	
4-11/2023 Annual Processor State Section Processor State Secti			co zo Nevellete d Did	Agent	44:40	AA -AA	NONO	Occasil Barraca (Ballis Inc.	
100 100									
Column		Refunding GO Bonds 2023 Series	10.16 Negotiated Bid	Sole Manager	NR	A+	NR	Primary & Secondary Education	
APACON Common	4/12/2023 Idaho Housing & Fin Assoc	Sales Tax Rev Bonds Series 2023A	349.69 Negotiated Bid	Co-Manager	Aa1	NR	AA+		5.35
4190023 Anter Cut-Treas Anter State Houses March		Bridge Revenue Bonds 2023 Series F-1	391.06 Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA;AA;AA	AA;AA;AA		2.67
## 190025 Item State Health standards (Minages Principal States) (Minages P	4/19/2023 Austin City-Texas		417.62 Negotiated Bid	Lead Manager	Aa3	AA-	AA-	Public Power	3.53
4190022 Measchinated WP Comman Record Ruff Brown 2023 Act 241.52 (Septiment Bild Size Management Programment	4/19/2023 Maine State Housing		57.36 Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
Recommendary General Recompany Broads Service 2023 A-1 (14.4 Nagostated Blod Manager Remarkating National Plant		General Rev & Ref Bonds 2023 Series B&C	234.32 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	AA+;AA+	Water & Sewer Facilities	
## ACCOUNTS Now Inverse (Earn Der Auß) School Construction field Bonds Science 2023 797 67 Negotimened Bid Least Managem A2		General Receints Ronds Series 2023 A-1		Sole	NR	ΔΔ		Higher Education	
4:00000000 New Javerys (Control Control No. Allers) Extract Control Control No. Allers (Control Control No. Allers) Extract Control Control No. Allers (Control No. Allers) Extract Control No. Allers (Control No. Allers) Extract Control No. Allers (Control No. Allers) Extract Control No. Allers (Control No. Allers) Extraction (Control No. Allers) Extract Control No. Allers (Control No. Allers) Extract Control No. Allers (Control No. Allers) Extraction (Control No. No. Allers) Extract Control No. Allers (Control No. Allers) Extract Control No. Allers (Co	4/20/2023 Offic State University	General Receipts Burius Series 2023 A- I	104.41 Negotiated Bid	Manager;Remarketing	NK.	AA	AAT	nigher Education	
A2000000000000000000000000000000000000	4/20/2023 New Jersey Econ Dev Auth	School Construction Ref Bonds 2024 Series	281.67 Negotiated Bid		A2	A-	A	Primary & Secondary	3.16
And AAA AAA AAA AAA AAA AAA AAA AAA AAA			797.67 Negotiated Bid	Lead Manager	A2	A-	A		3.29
Corp.			150.96 Negotiated Bid	Co-Manager	Aaa	AAA	AAA		
Section Comment Comm	Corp								1.93
Authority (CR4) 2012. 510.0023 More Ver Virgina Hospital Principated Reviewue Imp Bords 2023 Series A 285.03 Negotianed Bid Co-Manager A2 A NR General Purposed Public Imp Author Co-Manager A2 A NR General Purposed Public Imp Author Co-Manager A2 AA-NR AA-NR AA-AIPORTS 516.0020 Prosents Cot Co-Manager A2 AA-NR AA-NR AA-AIPORTS 526.2023 Neuroland National Conference of Combined Dilated Series B203 Author Corp. Teass 526.2023 Manager Anager A3 Apports Series B203 Author Corp. Teass 526.2023 Series Manager A3 Apports Series B203 A 438.23 Negotianed Bid Lead Manager A3 AA-AA-AIPORTS 526.2023 Series Manager A3 Apports Series B203 A 438.23 Negotianed Bid Lead Manager A3 AA-AA-AIPORTS 526.2023 Series Manager A3 Apports Series B203 A 438.23 Negotianed Bid Combined Dilated Series Author Combined Utilities Series B203 A 438.23 Negotianed Bid Combined Dilated Series B203 A 438.23 Negotianed Bid Combined Dilated Series B203 A 438.23 Negotianed Bid Combined Dilated Series B203 A 449.00 Negotianed Bid Combined Dilated Series B203 Negotianed Bid Combined Dilated B203 Negotianed Bid Combined B203 Negotianed Bid Combined B203 Negotianed Bid Combined B		Α .							
Strip	Authority (LCRA)	2023A							2.73
Auth 1746/2023 Phonein KDy CVic Imp 275/2023 Should City Teass Contined Utility Sys CP Notes Series B-7 100.00 Negotiated Bid Laad Munitager Aux NR NR NR NR NR Contended Utilities Sys CP Notes Series B-7 100.00 Negotiated Bid Laad Munitager Aux NR		Hospital Revenue Imp Bonds 2023 Series A	285.93 Negotiated Bid		A2	A	NR	General Acute Care Hospital	
\$1/62029 Pricents City Civic Importance Pricents Service Pricents Service Pricents Service Pricents		Environmental Imp Rev Bonds Series 2023	240.00 Negotiated Bid	Co-Manager	NR	BB-	BB	General Purpose/ Public Imp	5.00
5/23/2023 House No Chy-Trees	5/16/2023 Phoenix City Civic Imp		96.54 Negotiated Bid	Lead Manager	Aa2	AA-	NR	Airports	
Agricult	5/23/2023 Houston City-Texas		100.00 Negotiated Bid		NR	NR	NR	Combined Utilities	
Auth 5/5/4/2022 Sean-Antonic City-Texas Electric & Gas Sys Rev Rel Bonds Series 100.34 Negotiated Bid Sole Aa3 A+ AA- Combined Utilities 5/6/4/2022 Pennsyknania Housing Fis Solgie Family Mortgage Rev Bonds Series 388.91 Negotiated Bid Co-Manager Aa1 AA+ NR Single Family Housing 5/6/4/2022 Pennsyknania Housing Fis Solgie Family Mortgage Rev Bonds Series 2023-142A AA+ NR Single Family Housing 5/5/4/2022 Pennsyknania Housing Fis Solgie Family Mortgage Rev Bonds Series 5.07 Negotiated Bid Co-Manager Aa1 AA+ NR Single Family Housing 5/5/5/2022 New Jensey Firms Trust Transportation Program Bonds 2023 Series 662.91 Negotiated Bid Co-Manager Aa2 A- A Mass Transportation 6/1/2023 New York City-New York General Obligation Bonds 2023 Series 15.070 Negotiated Bid Co-Manager Aa2 AA AA General Purposel Public Imp 6/1/2023 New Jensey Hop & Might Family Housing Rev Bonds 2023 58.24 Negotiated Bid Co-Manager Aa2 AA AA AA General Purposel Public Imp 6/1/2023 New Jensey Hop & Might Family Housing Rev Bonds 2023 58.24 Negotiated Bid Co-Manager NR AA- NR Multi-Family Housing 6/1/2022 New Jensey Hop & Might Family Housing Rev Bonds 2023 58.24 Negotiated Bid Lead Manager NR AA- NR Multi-Family Housing 6/1/2023 New Jensey Hop & Might Family Housing Rev Bonds 2023 45.26 Negotiated Bid Lead Manager NR AA- NR Multi-Family Housing 6/1/2023 New Jensey Hop & Might Family Housing Rev Bonds 2023 45.26 Negotiated Bid Co-Manager Aaa AA NR Niger Family Housing 6/1/2023 Sacramento MUD (SMUD) Series H Niger Family Housing Aa AA NR Single Family Housing 6/1/2023 Sacramento MUD (SMUD) Selectric Reverus Bonds 2023 Series 50.00 Negotiated Bid Co-Manager NR AA AA Public Power 6/1/2023 Sacramento MUD (SMUD) Selectric Reverus Bonds 2023 Series 50.00 Negotiated Bid Co-Manager NR AA AA Public Power 6/1/2023 Sacramento MUD (SMUD) Sele				Agent					
5/24/2023 San Antonio City-Toxas Electric & Cas Syn Rev Ref Bonds Series 2023 10.34 Negotiated Bild Sole Aa3 A+ A- Combined Utilities		Airport Sys Rev & Ref Bonds Series 2023 A	436.23 Negotiated Bid	Lead Manager	Aa3	AA-	AA-		2.63
Size Family Mortgage Rev Bonds Series 388.91 Negotiated Bid Co-Manager As1 AA+ NR Single Family Housing April Az2-34-42A Az4-2022 Az-2023 Az2-34-42A Az2-34-4		Electric & Gas Sys Rev Ref Bonds Series 2023	100.34 Negotiated Bid	Sole Manager:Remarketing	Aa3	A+	AA-	Combined Utilities	
Sour (PHFA) 2023-1420 Service Parity Mortgage Rev Bonds Series 5.07 Negotiated Bid Co-Manager Aa1 AA+ NR Single Family Housing Parity Mortgage Rev Bonds 2023 Series 682.91 Negotiated Bid Co-Manager A2 A- A Mass Transportation Program Bonds 2023 Series F 150.70 Negotiated Bid Co-Manager A2 A- AA Mass Transportation Program Bonds 2023 Series F 150.70 Negotiated Bid Co-Manager A2 A- AA Mass Transportation Program Bonds 2023 Series F 150.70 Negotiated Bid Co-Manager A2 A- AA General Purpose/ Public Imp G1/2023 New York City-New York General Obligation Bonds 2023 Series F 150.70 Negotiated Bid Co-Manager A2 AA-AA-AA AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-	E/24/2002 Dawner	Cingle Femily Master - Day Day 1	200.04 Marrian 1811	Agent	Ant	^^.	ND	Cingle Family Herri	0.00
Sp25/2023 New Jensey Trans Trust Trust Fund Au Enrich Program Bonds 2023 Series 692.91 Negotiated Bid Co-Manager A2 A- A Mass Transportation Fund Au Enrich Program Bonds 2023 Series 15.0.70 Negotiated Bid Co-Manager Aa2 AA AA General Purpose/ Public Imp	Agcy (PHFA)	2023-142A							6.29
5/25/2023 New Jersey Trans Tust Transportation Program Bonds 2023 Series 692.91 Negotiated Bid Co-Manager A2	Agcy (PHFA)	2023-14B							
6/1/2023 New York City-New York 6/1/2023 New Jersey Hsg & Mig Fin Agency Agency Agency 6/1/2023 New Jersey Hsg & Mig Fin Agency Agency Agency 6/1/2023 New Jersey Hsg & Mig Fin Agency Agency Agency 6/1/2023 New Jersey Hsg & Mig Fin Agency Agency Agency 6/1/2023 New Jersey Hsg & Mig Fin Agency Agency Agency 6/1/2023 New Jersey Hsg & Mig Fin Agency	5/25/2023 New Jersey Trans Trust			Co-Manager	A2	A-	A	Mass Transportation	3.18
FAGA1 6/1/20/23 New Jersey Hsg & Mtg Fmil Multi-Family Housing Rev Bonds 20/23 6/1/20/23 New Jersey Hsg & Mtg Fmil Multi-Family Housing Rev Bonds 20/23 6/1/20/23 New Jersey Hsg & Mtg Fmil Multi-Family Housing Rev Bonds 20/23 6/1/20/23 New Jersey Hsg & Mtg Fmil Multi-Family Housing Rev Bonds 20/23 6/1/20/23 New Jersey Hsg & Mtg Fmil Multi-Family Housing Rev Bonds 20/23 6/1/20/23 New Jersey Hsg & Mtg Fmil Multi-Family Housing Rev Bonds 20/23 6/1/20/23 New Jersey Hsg & Mtg Fmil Multi-Family Housing Rev Bonds 20/23 6/1/20/23 New Jersey Hsg & Mtg Fmil Multi-Family Housing Rev Bonds 20/23 6/1/20/23 Colorado Hsg & Fin Auth 6/1/20/23 Scaramento MUD (SMUD) 6/1/20/23 Scaramen			150.70 Negotiated Bid	Co-Manager	Aa2	AA	AA	General Purpose/ Public Imp	4.21
6/1/20/23 New Jersey Heig & Mig Fin Auth Charles Person Rev Bonds 20/23 Series C	6/1/2023 New York City-New York	General Obligation Bonds 2023 Series	1,409.18 Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA;AA;AA	AA;AA;AA	General Purpose/ Public Imp	
6/1/20/23 New Jersey Hsg & Mig Fin Auth Agency Agen		Multi-Family Housing Rev Bonds 2023	58.24 Negotiated Bid	Lead Manager	NR	AA-	NR	Multi Family Housing	
Agency Saries A&B		Multi-Family Housing Rev Bonds 2023	45.86 Negotiated Bid	Lead Manager	NR;NR	AA-;AA-	NR;NR	Multi Family Housing	
Agency 6/2/20/3 Colorado Hsg & Fin Auth (CHFA) 6/2/20/3 Socramento MUD (SMUD) 6/2/20/3 Socramento MUD	Agency	Series A&B							
(CHFA) Saries H (CVERA) Solries H (CVERA) (CVERA) Saries H (CVERA) (CVERA) (Single Family Mortgage Rev Bonds 2023 75.00 Negotiated Bid Co-Manager Aaa: Aaa: Aaa: Aaa: Aaa: Aaa: Aaa: Aaa	Agency	Series D							
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6/2/2023 Colorando Hsq & Fin Auth (CHFA) Single Family Mortgage Rev Bonds 2023 45.29 Negotiated Bid Co-Manager Aa3 AA NR Single Family Housing Series I Co-Manager Aa3 AA NR Single Family Housing Series I Lead NR AA- AA Public Power Manager-Remarketing Agent AA- AA Public Power Manager-Remarketing Agent AA- AA- AA- Public Power Manager-Remarketing Agent AA- AA- Remarketing AA- AA- Remarketing Agent AA- AA- Remarketing Agent AA- AA- Rem	(CHFA)	Series J							
6/6/2023 Sacramento MUD (SMUD) Sub Electric Rev Ref Bonds 2023 Series D 100.00 Negotiated Bid	6/2/2023 Colorado Hsg & Fin Auth		45.29 Negotiated Bid	Co-Manager	Aa3	AA	NR	Single Family Housing	
6/6/2023 Sacramento MUD (SMUD) Electric Revenue Bonds 2023 Series K 200.00 Negotiated Bid Co-Manager NR AA AA Public Power 6/6/2023 Sacramento MUD (SMUD) Electric Revenue Ref Bonds 2023 Series L 61.12 Negotiated Bid Lead Manager NR AA AA Public Power 6/6/2023 Texas Dept of Hsg & Single Family Mortgage Rev Bonds Series 50.00 Negotiated Bid Lead Manager Aaa AA+ NR Single Family Housing Comm Affairs 2023B Single Family Mortgage Rev Bonds Series 2023A Social Comm Affairs 2023B Social Comm Affairs 2023A 2023 Social Comm Affairs 2023A Social Comm Affairs 2023A 2023 Social Comm Affairs 2023A 2024 Negotiated Bid Co-Manager Aa1 AAA NR Water Rev and Ref Bonds 2023 Series A 258.41 Negotiated Bid Sole Manager NR A AA- General Purpose/ Public Imp			100.00 Negotiated Bid		NR	AA-	AA	Public Power	
6/6/2023 Sacramento MUD (SMUD) Electric Revenue Ref Bonds 2023 Series L 61.12 Negotiated Bid Lead Manager NR AA AA Public Power 6/6/2023 Texas Dept of Hsg & Single Family Mortgage Rev Bonds Series 50.00 Negotiated Bid Lead Manager Aaa AA+ NR Single Family Housing Comm Affairs 2023B Single Family Mortgage Rev Bonds Series 2023A A Single Family Mortgage Rev Bonds Series 200.00 Negotiated Bid Lead Manager Aaa AA+ NR Single Family Housing Comm Affairs 2023A Ge@2023 So California Metro Water Rev and Ref Bonds 2023 Series A 258.41 Negotiated Bid Co-Manager Aa1 AAA NR Water & Sewer Facilities Dt Gr/7/2023 Lower Colorado River Refunding Revenue Bonds Series 2023A 29.44 Negotiated Bid Sole Manager NR A AA- General Purpose/ Public Imp	8/8/2000 0	Electric Devenue Devide 2000 0	200.00 Marrier 1811	Agent	ND	A A	AA	Dublic Dougs	
6/6/2023 Texas Dept of Hsg & Single Family Mortgage Rev Bonds Series 50.00 Negotiated Bid Lead Manager Aaa AA+ NR Single Family Housing Comm Affairs 2023B Single Family Mortgage Rev Bonds Series 2023A A Single Family Mortgage Rev Bonds Series 2020.00 Negotiated Bid Lead Manager Aaa AA+ NR Single Family Housing Comm Affairs 2023A Social Comm Affairs 2023A Water Rev and Ref Bonds 2023 Series A 258.41 Negotiated Bid Co-Manager Aa1 AAA NR Water & Sewer Facilities Dt Gr/7/2023 Lower Colorado River Refunding Revenue Bonds Series 2023A 29.44 Negotiated Bid Sole Manager NR A AA- General Purpose/ Public Imp									
Comm Affairs 2023B Script of Hsg & Single Family Mortgage Rev Bonds Series 202.00 Negotiated Bid Lead Manager Aaa AA+ NR Single Family Housing Comm Affairs 2023A 2023 No California Metro Water Rev and Ref Bonds 2023 Series A 258.41 Negotiated Bid Co-Manager Aa1 AAA NR Water Rev and Ref Bonds 2023 Series A 258.41 Negotiated Bid Co-Manager Aa1 AAA NR Water Rev and Ref Bonds 2023 Series A 258.41 Negotiated Bid Sole Manager NR A AA- General Purpose/ Public Imp									2.37
6/6/2023 Texas Dept of Hsg & Single Family Mortgage Rev Bonds Series 200.00 Negotiated Bid Lead Manager Aaa AA+ NR Single Family Housing Comm Affairs 20/23A 6/6/2023 So California Metro Water Water Rev and Ref Bonds 2023 Series A 258.41 Negotiated Bid Co-Manager Aa1 AAA NR Water & Sewer Facilities Dt 6/7/2023 Lower Colorado River Refunding Revenue Bonds Series 20/23A 29.44 Negotiated Bid Sole Manager NR A AA- General Purpose/ Public Imp	Comm Affairs		50.00 Negotiated Bid	Lead Manager	Aaa	AA+	NR	Single Family Housing	
6/6/2023 So California Metro Water Water Rev and Ref Bonds 2023 Series A 258.41 Negotiated Bid Co-Manager Aa1 AAA NR Water & Sewer Facilities Dt 6/7/2023 Lower Colorado River Refunding Revenue Bonds Series 2023A 29.44 Negotiated Bid Sole Manager NR A AA- General Purpose/ Public Imp	6/6/2023 Texas Dept of Hsg &	Single Family Mortgage Rev Bonds Series	200.00 Negotiated Bid	Lead Manager	Aaa	AA+	NR	Single Family Housing	6.95
6/7/2023 Lower Colorado River Refunding Revenue Bonds Series 2023A 29.44 Negotiated Bid Sole Manager NR A AA- General Purpose/ Public Imp	6/6/2023 So California Metro Water		258.41 Negotiated Bid	Co-Manager	Aa1	AAA	NR	Water & Sewer Facilities	2.03
Authority (LCRA)	6/7/2023 Lower Colorado River	Refunding Revenue Bonds Series 2023A	29.44 Negotiated Bid	Sole Manager	NR	A	AA-	General Purpose/ Public Imp	
6/7/2023 Lower Colorado River Refunding Revenue Bonds Series 2023B 107.93 Negotiated Bid Sole NR A AA- General Purpose/ Public Imp		Refunding Revenue Bonds Series 2023B	107.93 Negotiated Bid		NR	A	AA-	General Purpose/ Public Imp	
Authority (LCRA) Manager,Remarketing Apont				Manager;Remarketing					
	6/9/2023 NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2023 Series A-1	172.86 Negotiated Bid		Aa2	AA+	NR	Multi Family Housing	1.60

6/9/2023 NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2023 Series A-1	419.87 Negotiated Bid	Lead Manager;Remarketing Agent;Remarketing Agent	Aa2;Aa2	AA+;AA+	NR;NR	Multi Family Housing	4.28
6/13/2023 Sacramento MUD (SMUD)	Sub Electric Rev Ref Bonds Series 2023 C	132.02 Negotiated Bid	Sole Manager;Remarketing Agent	NR 3	AA	AA-	Public Power	
6/13/2023 Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2023 Series K-1	159.99 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
	Power System Demand Rev Bonds 2023 Series C-1 & 2	350.00 Negotiated Bid	Lead Manager;Remarketing Agent	Aa2;Aa2	AA-;AA-	AA-;AA-	Public Power	0.83
6/21/2023 Pennsylvania State University	Bonds Series 2023	203.99 Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	2.90
	Multi-Family Project Bonds 2023 Series B-1	9.41 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
	Multi-Family Project Bonds 2023 Series B-2	9.30 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
	Multi-Family Project Bonds 2023 Series C	3.90 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
6/22/2023 University of South	Higher Education Rev Ref Bonds Series 2023	20.02 Negotiated Bid	Sole Manager	Aa2	NR	AA	Higher Education	
6/22/2023 NYC Housing Dev Corp	Housing Impact Bonds 2023 Series A	290.73 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
6/22/2023 NYC Housing Dev Corp	Housing Impact Bonds 2023 Series A	29.58 Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	0.66
6/27/2023 San Diego Co (San Ysidro) SD	General Obligation Bonds Series B	15.00 Negotiated Bid	Sole Manager	A3	NR	NR	Primary & Secondary Education	
6/27/2023 San Diego Co (San Ysidro) SD		15.00 Negotiated Bid	Sole Manager	A3	NR	NR	Primary & Secondary Education	
6/28/2023 Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Ln Bonds Series 2023B	175.02 Negotiated Bid	Co-Manager	NR	AA+	AA+	Bridges	
6/28/2023 Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Ln Bonds Series 2023B	212.49 Negotiated Bid	Co-Manager	NR	AA+	AA+	Bridges	
6/28/2023 Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Ln Bonds Series 2023B	212.50 Negotiated Bid	Co-Manager	NR	AA+	AA+	Bridges	
6/28/2023 Massachusetts	GO Cons Loan & Refunding Bonds 2023 Series A&B	1,240.96 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	AA+;AA+	General Purpose/ Public Imp	
6/28/2023 Los Angeles Dept Wtr & Pwr (LADWP)	Power Sys Demand Rev Bonds 2023 Ser Sub C-1	200.00 Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA-	AA-	Public Power	
6/29/2023 Houston City-Texas	Airport System Rev & Ref Bonds Series 2023A	647.87 Negotiated Bid	Co-Manager	A1	NR	A+	Airports	
6/29/2023 Houston City-Texas	Airport System Rev & Ref Bonds Series 2023B	108.19 Negotiated Bid	Co-Manager	A1	NR	A+	Airports	
6/29/2023 NYS Housing Fin- Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 254	30.00 Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
6/29/2023 NYS Housing Fin- Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 252	62.79 Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
6/29/2023 NYS Housing Fin- Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 253	32.22 Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
	Multi-Modal Revenue Bonds 2023 Series I	113.85 Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	NR	AA	Government Buildings	
7/12/2023 Colorado	Educ Loan Prog Tax & RANs Series 2023A	500.00 Competitive Bid	Lead Manager	NR;NR	NR;NR	NR;NR	Student Loans	
7/14/2023 Maine State Housing Authority	Mortgage Purchase Bonds 2023 Series D	45.00 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
7/18/2023 Michigan State Building Auth	Revenue Refunding Bonds 2023 Series II	280.99 Negotiated Bid	Lead Manager	Aa2	AA-	AA	Government Buildings	
7/19/2023 Salt Lake City-Utah 7/19/2023 California State Univ	Airport Revenue Bonds Series 2023 A Systemwide Revenue Bonds Series 2023A	600.00 Negotiated Bid 337.16 Negotiated Bid	Co-Manager Lead Manager	A2 Aa2	A+ AA-	NR NR	Airports Higher Education	
Trustees 7/19/2023 California State Univ	Systemwide Revenue Bonds Series 2023B	462.20 Negotiated Bid	Lead Manager	Aa2	AA-	NR	Higher Education	
Trustees	Future Tax Secured Sub Bonds 2024 Series	950.00 Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
Auth 7/20/2023 Massachusetts Dev	A-1 Revenue Bonds Series N 2023		•	Baa2	BBB-	NR.		
Finance Agcy		31.86 Negotiated Bid	Sole Manager				Higher Education	
7/20/2023 Rhode Island Hsg & Mtg Fin Corp	Homeownership Opp Bonds Series 80-T-1	85.29 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
7/20/2023 Rhode Island Hsg & Mtg Fin Corp	Homeownership Opportunity Bonds Series 80-A	75.00 Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
(CHFA)	Single Family Mortgage Bonds 2023 Series L	50.00 Negotiated Bid	Co-Manager	Aa3	AA	NR	Single Family Housing	
(CHFA)	Single Family Mortgage Bonds 2023 Series M-1	62.50 Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
8/1/2023 Grand Parkway Transport Corp	Toll Rev Ref Put Bonds Series 2023	263.23 Negotiated Bid	Lead Manager;Remarketing Agent	Aa1	NR	AA	Toll Roads, Highways & Streets	
8/2/2023 Long Island Power Authority	Electric System Gen Rev Bonds Series 2023E	400.00 Negotiated Bid	Co-Manager	A2;A2	A;A	A;A	Public Power	
8/2/2023 Long Island Power Authority	Electric System Gen Rev Bonds Series 2023F	179.31 Negotiated Bid	Co-Manager	A2	A	A	Public Power	
8/2/2023 San Antonio City-Texas	Water Sys Jr Ln Rev&Ref Bonds Series 2023A	289.17 Negotiated Bid	Lead Manager	Aa2	AA+	AA	Water & Sewer Facilities	
8/3/2023 NYS Dorm Authority	State Sales Tax Revenue Bonds Series 2023B	61.29 Negotiated Bid	Co-Manager	Aa1	AA+	NR	General Purpose/ Public Imp	
8/3/2023 NYS Dorm Authority	State Sales Tax Revenue Bonds Series 2023A-1&2	1,303.43 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	NR;NR	General Purpose/ Public Imp	
8/3/2023 NYS Dorm Authority	State Sales Tax Revenue Bonds Series 2023A-1&2	379.76 Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	NR;NR	General Purpose/ Public Imp	
8/4/2023 New Hampshire National Fin Auth	Revenue Bonds Series 2023A	27.90 Negotiated Bid	Co-Manager	NR	NR	BBB+	Assisted Living	
	Presbyterian Sr Living Rev Bonds Series 2023B-1&2	131.81 Negotiated Bid	Co-Manager	NR;NR	NR;NR	BBB+;BBB+	Cont Care Retirement Community	
8/8/2023 Massachusetts Dev Finance Agcy	Refunding Revenue Bonds Series 2023 F	46.22 Negotiated Bid	Sole Manager	A2	A	NR	Higher Education	

Finance Actor

Note: Due to the very large number of transactions for which Barclays has served as senior or co-manager within the past 5 years, we are unable to guarantee the accuracy of true interest cost (TIC) data derived from publicly available resources. We would be pleased to provide TIC information for specific transactions upon the County's request.

pecific transactions upon the County's request.					
Summary					
Type of Debt	Number of Issues	Par (\$ m ons)			
Airport	85	28,867			
Port	5	1,456			
Water and Sewer	109	26,957			
Convention Center / Convention Center Hotel	5	486			
General Obligation	284	138,230			
Certificate of Participation	6	821			
Special Obligation	8	2,240			

August 15, 2023



Appendix C: Vender Reference Verification Forms

VENDOR REFERENCE VERIFICATION FORM

GEN2126726Q1 Library of Bond Underwriters						
Reference For (hereinafter, "Vendor"):	Barclays					
Reference Date:	August 7, 2023	* r. 53*				
Organization/Firm Providing Reference:	City and County	of Denver / De	nver Intl Airport			
Contact Name:	Mike Nakornkhe	et		4-17-4-11		
Contract Title:	EVP / Chief Fina	ncial Officer				
Contact Email:	Mike.Nakornkhe	et@flydenver.c	om	PIPER N		
Contact Phone:	(720) 882-7991	E-L fr				
Name of Referenced Project:	\$1.2 Billion Airp	ort System Rev	enue Bonds, Series	s 2022C/D		
Contract Number:						
Date Range of Services Provide:	Start Date: Sept	ember 2022	End Date: Nove	mber 2022		
Project Amount:	\$1,166,990,000					
Vendor's Role in Project:	✓ Prime	☐ Subconsult	ant/Subcontractor	s — III. III.		
Would you use this Vendor again?	✓ Yes	□No				
If you answered no to the question abov	e, please specify b	elow: (attach a	dditional sheet if n	eeded)		
Description of services provided by Vend	or, please specify	below: (attach	additional sheet if	needed)		
Senior managing underwriter for genera	l airport revenue	bonds		, pritogram, mistogram		
A g						
Please rate your experience with the	Needs	Satisfactory	Excellent	Not Applicable		
referenced Vendor via checkbox:	Improvement	Satisfactory	LACEHETIC	Not Applicable		
Vendor's Quality of Service:						
Responsive:			V			
Accuracy:			V	2752 177		
Deliverables:			V			
Vendor's Organization:						
Staff Expertise:			7			
Professionalism:			7	e sandan II ett		
Turnover:				V		
Timeliness of:						
Project:			7			
Deliverables:						
Project completed within budget:			V			
Cooperation with:						
Your Firm:			V			
Subcontractor(s)/Subconsultant(s):						
Regulatory Agency(ies):				V		
All information provided to Broward County is subject to verification. Vendor acknowledges that inaccurate, untruthful, or incorrect statements made in support of this response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to the Broward County Procurement Code.						
12-0	ON BELOW IS FOI					
Verified via:		Divi Date	sion: e:			

VENDOR REFERENCE VERIFICATION FORM

	ibrary of Bond Un	derwriters	Service Visco		
Reference For (hereinafter, "Vendor"):	Barclays	Section 1	1200	post president in	
Reference Date:	August 7, 2023	Table 1		Library and the	
Organization/Firm Providing Reference:	City and County	of Denver / De	enver Intl Airport	Arrest March	
Contact Name:	Mike Nakornkhe	et a sala A		medy, a vy	
Contract Title:	EVP / Chief Fina	ncial Officer		and Charles at	
Contact Email:	Mike.Nakornkhe	et@flydenver.d	om		
Contact Phone:	(720) 882-7991	(Selection)			
Name of Referenced Project:	\$1.2 Billion Airp	ort System Rev	enue Bonds, Serie	s 2022C/D	
Contract Number:				DESTRUCTION	
Date Range of Services Provide:	Start Date: Sept	ember 2022	End Date: Nove	mber 2022	
Project Amount:	\$1,166,990,000	Was Circles		1 10 km 1 G - 1	
Vendor's Role in Project:	☑ Prime	☐ Subconsul	tant/Subcontracto	r	
Would you use this Vendor again?	✓ Yes	□No	landa eji anta 1972	attern to	
If you answered no to the question abov	e, please specify b	elow: (attach a	dditional sheet if r	needed)	
		•	and the second s	*	
			3		
Description of sorvices provided by Vand	lor place medify	halavu (attach	additional about if		
Description of services provided by Vend			additional sheet ii	needed)	
Senior managing underwriter for genera	i airport revenue	bonas	Market Charles		
Diagonata and a sign of the si	N			1	
Please rate your experience with the referenced Vendor via checkbox:	Needs	Satisfactory	Excellent	Not Applicable	
	Improvement				
Vendor's Quality of Service:					
Responsive:					
Accuracy:					
Deliverables:		Ш		Ш	
Vendor's Organization:					
Staff Expertise:					
Professionalism:			V		
Turnover:				✓	
Timeliness of:					
Project:			✓		
Deliverables:			V		
Project completed within budget:			\checkmark		
Cooperation with:					
Your Firm:			V		
Subcontractor(s)/Subconsultant(s):					
Regulatory Agency(ies):				V	
All information provided to Broward County is subject to verif response may be used by the County as a basis for rejection, Vendor pursuant to the Broward County Procurement Code.					
	ION BELOW IS FOI	R COUNTY USE	ONLY***		
□ Fmail			ision:	WE TO SELECT	
Verified via:		Dat	:e:		



VENDOR REFERENCE VERIFICATION FORM

GEN2126726Q1 Library of Bond Underwriters					
Reference For (hereinafter, "Vendor"):	Puer to 12	ico Agi	reduct	and Sew	er Suthonity
Reference Date:					JUN 2022
Organization/Firm Providing Reference:			0		
Contact Name:	UMAY K	IVEYA	Rolow		
Contract Title:	Chief &	inmual	Offi	in	
Contact Email:	Omar. Vive	VA @ O	eve du	ctos pr. com	
Contact Phone:	787-62	0-22	77 X. 2	2144	
Name of Referenced Project:	2020,20	21, 2022	- REV	evue Bo	As
Contract Number:	N/A				
Date Range of Services Provide:	Start Date:	SUNE 20	20 End	d Date: 🍏	SUNE 2022
Project Amount:	+3.02 4	pillions			(4)
Vendor's Role in Project:	Prime	☐ Subcon	sultant/Si	ubcontractor	
Would you use this Vendor again?	Yes	□No			
If you answered no to the question above	e, please specify b	elow: (attac	ch additio	nal sheet if ne	eded)
Description of services provided by Vend	lor, please specify	below: (atta	ach additi	onal sheet if n	eeded)
head Underwritter und	a the a same	ment	med	fremere	fiors
				1	
Please rate your experience with the	Needs	Catisfast		Excellent	Not Applicable
referenced Vendor via checkbox:	Improvement	Satisfact	ory	excellent	Not Applicable
Vendor's Quality of Service:					
Responsive:					
Accuracy:					
Deliverables:		V			
Vendor's Organization:				/	
Staff Expertise:					
Professionalism:			= 1		
Turnover:					
Timeliness of:					
Project:				Ø /	
Deliverables:				<u> </u>	
Project completed within budget:				V	
Cooperation with:					
Your Firm:					
Subcontractor(s)/Subconsultant(s):					- I
Regulatory Agency(ies):					
All information provided to Broward County is subject to verily response may be used by the County as a basis for rejection, Vendor pursuant to the Broward County Procurement Code.					
	ION BELOW IS FOR	COUNTY L	JSE ONLY	***	
Verified via:		-	Division: Date:		

Supplier: Barclays Bank US

Standard Instructions to Vendors - Request for Proposals, Request for Qualifications, or Request for Letters of Interest

Vendors are instructed to read and follow the instructions carefully, as any misinterpretation or failure to comply with instructions may lead to a Vendor's submittal being rejected.

Vendor MUST submit its solicitation response electronically and MUST confirm its submittal in Periscope S2G for the response to be deemed valid by the County. Refer to the Purchasing Division website or contact Periscope S2G for submittal instructions.

A. Responsiveness Criteria:

A Responsive (Vendor) means a vendor who submits a response to a solicitation that the Director of Purchasing determines meets all requirements of the solicitation.

The required information and applicable forms must be submitted with solicitation response, electronically through Periscope SG2 by the solicitation's due date and time. Failure to timely submit may result in Vendor being deemed non-responsive. The County reserves the right to waive minor technicalities or irregularities as is in the best interest of the County in accordance with Section 21.37(b) of the Broward County Procurement Code.

Below are standard responsiveness criteria; refer to **Special Instructions to Vendors** for Additional Responsiveness Criteria requirement(s).

1. Lobbyist Registration Requirement Certification

Refer to **Lobbyist Registration Requirement Certification Form**. The completed form should be submitted with the solicitation response. If not submitted within solicitation response, it must be submitted within three business days of County's written request. Failure to timely submit may result in Vendor being deemed non-responsive.

2. Criminal History Screening Practices Certification

Refer to **Criminal History Screening Practices Certification Form**. The completed form should be submitted with the solicitation response. If not submitted within solicitation response, it must be submitted within three business days of County's written request. Failure to timely submit may result in Vendor being deemed non-responsive.

3. Addenda

The County reserves the right to amend this solicitation prior to the due date and time specified in the solicitation. Any change(s) to this solicitation will be conveyed through the written addenda process. Only written addenda will be binding. Vendor must follow the instructions carefully and submit the required information and applicable forms, or acknowledge addendum, electronically through Periscope S2G. It is the Vendor's sole responsibility to monitor the solicitation for any changing information, prior to submitting their solicitation response.

B. Responsibility Criteria:

A Responsible (Vendor) means a vendor who is determined to have the capability in all respects to perform fully the requirements of a solicitation, as well as the integrity and reliability that will ensure good faith performance.

When making determinations of responsibility, the Director of Purchasing or the Evaluation Committee (as applicable) may request additional information from any vendor on matters that may affect a vendor's responsibility. The failure of a vendor to provide information requested by the County may result in a determination of non-responsibility. In addition, a vendor may submit information regarding its responsibility; provided, however, that such information shall not be considered if it

contradicts or materially alters the information provided by the vendor in its original response to the solicitation.

Failure to provide any of this required information and in the manner required may result in a recommendation by the Director of Purchasing that the Vendor is non-responsible.

Below are standard responsibility criteria; refer to **Special Instructions to Vendors** for Additional Responsibility Criteria requirement(s).

1. Litigation History

a. All Vendors are required to disclose to the County all "material" cases filed, pending, or resolved during the last three (3) years prior to the solicitation response due date, whether such cases were brought by or against the Vendor, any parent or subsidiary of the Vendor, or any predecessor organization. Additionally, all Vendors are required to disclose to the County all "material" cases filed, pending, or resolved against any principal of Vendor, regardless of whether the principal was associated with Vendor at the time of the "material" cases against the principal, during the last three (3) years prior to the solicitation response.

A case is considered to be "material" if it relates, in whole or in part, to any of the following:

- i. A similar type of work that the vendor is seeking to perform for the County under the current solicitation;
- ii. An allegation of fraud, negligence, error or omissions, or malpractice against the vendor or any of its principals or agents who would be performing work under the current solicitation;
- iii. A vendor's default, termination, suspension, failure to perform, or improper performance in connection with any contract;
- iv. The financial condition of the vendor, including any bankruptcy petition (voluntary andinvoluntary) or receivership; or
- v. A criminal proceeding or hearing concerning business-related offenses in which the vendor or its principals (including officers) were/are defendants.
- b. For each material case, the Vendor is required to provide all information identified in the **Litigation History**. Additionally, the Vendor shall provide a copy of any judgment or settlement of any material case during the last three (3) years prior to the solicitation response. Redactions of any confidential portions of the settlement agreement are only permitted upon a certification by the Vendor that all redactions are required under the express terms of a pre-existing confidentiality agreement or provision.
- c. The County will consider a Vendor's litigation history information in its review and determination of responsibility.
- d. If the Vendor is a joint venture, the information provided should encompass the joint venture and each of the entities forming the joint venture.
- e. A vendor is required to disclose to the County any and all cases(s) that exist between the County and any of the Vendor's subcontractors/subconsultants proposed to work on this project during the last five (5) years prior to the solicitation response.
- f. Failure to disclose any material case, including all requested information in connection with each such case, as well as failure to disclose the Vendor's subcontractors/subconsultants litigation history against the County, may result in the Vendor being deemed non-responsive.

2. Financial Information

a. All Vendors are required to submit the Vendor's financial statements by the due date and time specified in the solicitation, in order to demonstrate the Vendor's financial capabilities. If not submitted with solicitation response, it must be submitted within three business days of County's written request.

- b. Each Vendor shall submit its most recent two years of financial statements for review. The financial statements are not required to be audited financial statements. The annual financialstatements shall be in the form of:
 - i. Balance sheets, income statements and annual reports; or
 - ii. Tax returns; or
 - iii. SEC filings.

If tax returns are submitted, ensure it does not include any personal information (as defined under Section 501.171, Florida Statutes), such as social security numbers, bank account or credit card numbers, or any personal pin numbers. If any personal information data is part of financial statements, redact information prior to submitting a response the County.

- c. If a Vendor has been in business for less than the number of years of required financial statements, then the Vendor must disclose all years that the Vendor has been in business, including any partial year-to-date financial statements.
- d. The County may consider the unavailability of the most recent year's financial statements and whether the Vendor acted in good faith in disclosing the financial documents in its evaluation.
- e. Any claim of confidentiality on financial statements should be asserted at the time of submittal. Refer to Standard Instructions to Vendors, Confidential Material/Public Records and Exemptions for instructions on submitting confidential financial statements. The Vendor's failure to provide the information as instructed may lead to the information becoming public.
- f. Although the review of a Vendor's financial information is an issue of responsibility, the failure to either provide the financial documentation or correctly assert a confidentiality

claim pursuant the Florida Public Records Law and the solicitation requirements (Confidential Material/ Public Records and Exemptions section) may result in a recommendation of non-responsiveness by the Director of Purchasing.

3. Authority to Conduct Business in Florida

- a. A Vendor must have the authority to transact business in the State of Florida and be in good standing with the Florida Secretary of State. For further information, contact the Florida Department of State, Division of Corporations.
- b. The County will review the Vendor's business status based on the information submitted with the solicitation response.
- c. It is the Vendor's sole responsibility to comply with all state and local business requirements.
- d. Vendor should list its active Florida Department of State Division of Corporations Document Number (or Registration No. for fictitious names) in the **Vendor Questionnaire**, Question No. 10.
- e. If a Vendor is an out-of-state or foreign corporation or partnership, the Vendor must obtain the authority to transact business in the State of Florida or show evidence of application for the authority to transact business in the State of Florida, upon request of the County.
- f. A Vendor that is not in good standing with the Florida Secretary of State at the time of a submission to this solicitation may be deemed non-responsible.
- g. If successful in obtaining a contract award under this solicitation, the Vendor must remain in good standing throughout the contractual period of performance.

4. Affiliated Entities of the Principal(s)

- a. All Vendors are required to disclose the names of "affiliated entities" of the Vendor's principal(s) over the last five (5) years (from the solicitation opening deadline) that have acted as a prime Vendor with the County. The Vendor is required to provide all information required on the **Affiliated Entities of the Principal(s) Certification** form.
- b. The County will review all affiliated entities of the Vendor's principal(s) for contract performance evaluations and the compliance history with the County's Small Business Program, including CBE, DBE and SBE goal attainment requirements. "Affiliated entities" of the principal(s) are those entities related to the Vendor by the sharing of stock or other means of control, including but not limited to a subsidiary, parent or sibling entity.
- The County will consider the contract performance evaluations and the compliance history
 ofthe affiliated entities of the Vendor's principals in its review and determination of
 responsibility.

5. Insurance Requirements

The **Insurance Requirement Form** reflects the insurance requirements deemed necessary for this project. While it is not necessary to have this level of insurance in effect at the time of solicitation response, all Vendors are required to either submit insurance certificates indicating that the Vendor currently carries the level insurance coverages or submit a letter from the insurance carrier indicating Vendor can obtain the required insurance coverages.

C. Additional Information and Certifications

The following forms and supporting information (if applicable) should be completed and submitted with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County's written request. Failure to timely submit may affect Vendor's evaluation.

1. Vendor Questionnaire and Standard Certifications

Vendors are required to submit detailed information on their firm and certify to the below requirements. Refer to the **Vendor Questionnaire and Standard Certification** and submit as instructed.

- a. Drug-Free Workplace Certification
- b. Non-Collusion Certification
- c. Public Entities Crimes Certification
- d. Scrutinized Companies List Certification

2. Subcontractors/Subconsultants/Suppliers Requirement

If the Subcontractors/Subconsultants/Suppliers Information Form is included in the solicitation, the Vendor shall submit a listing of all subcontractors, subconsultants, and major material suppliers, if any, and the portion of the contract they will perform. Vendors must follow the instructions included on the **Subcontractors/Subconsultants/Suppliers Information Requirement** form and submit as instructed.

D. Standard Agreement Language Requirements

The acceptance of or any exceptions taken to the terms and conditions of the County's Agreement shall be considered a part of a Vendor's solicitation response and will be considered by the Evaluation Committee.

- 1. The applicable Agreement terms and conditions for this solicitation are indicated in the **Special Instructions to Vendors**.
- 2. Vendors are required to review the applicable terms and conditions and submit the **Agreement Exception Form**. The completed form should be submitted with the solicitation response. If not submitted with solicitation response, it shall be deemed an affirmation by the Vendor that it accepts the contract terms and conditions stated in the solicitation.

- b. If exceptions are taken, the Vendor must specifically identify each term and condition with which it is taking an exception. Any exception not specifically listed is deemed waived. Simply identifying a section or article number is not sufficient to state an exception. Provide either a redlined version of the specific change(s) or specific proposed alternative language. Additionally, a brief justification specifically addressing each provision to which an exception
 - is taken should be provided.
- c. Submission of any exceptions to the Agreement does not denote acceptance by the County. Furthermore, taking exceptions to the County's terms and conditions may be viewed unfavorablyby the Evaluation Committee and ultimately may impact the overall evaluation of a Vendor's submittal.

E. Cone of Silence

- 1. The Board of County Commissioners updated provisions of the Cone of Silence Ordinance, Section 1-266, of the Broward County Code of Ordinances, effective as of April 1, 2022.
- 2. The County's Cone of Silence Ordinance prohibits all communications, oral or written, relating to a competitive solicitation among vendors/vendor representatives, County Staff, and Commissioner Offices while the Cone is in effect. Communications with Purchasing Division employees, the solicitation's designated Project Manager(s) or designee(s), the Office of Economic and Small Business Development (OESBD) Small Business Development Specialist Supervisor (954) 357-6400, and others as specifically identified in the Cone of Silence Ordinance are permitted. Additionally, communication is permitted at pre-bid conferences and negotiation meetings, as applicable.
- 3. The Cone of Silence begins upon the advertisement of an ITB, RFP, RFQ, or RLI. The Cone of Silence terminates when the solicitation is awarded, all responses are rejected, or the Board takes other action which ends the solicitation.
- 4. Any violations of the Code of Silence Ordinance by any vendor/vendor representative, may be reported to the County's Professional Standards/Human Rights Section. If the County's Professional Standards/Human Rights Section determines that a violation has occurred, a fine shall be imposed as provided in the Broward County Code of Ordinances. At the sole discretion of the Broward County Board of County Commissioners, a violation may void an award of the applicable competitive solicitation.
- 5. Review the Cone of Silence Ordinance, Section 1-266 of the Broward County Code of Ordinances, for more detailed information.

F. Evaluation Criteria

- 1. The Evaluation Committee will evaluate Vendors as per the **Evaluation Criteria**. The County reserves the right to obtain additional information from a Vendor.
- 2. Unless the Evaluation Criteria is identified in the solicitation as an Additional Responsiveness or Responsibility Requirement (i.e., Special Instructions to Vendors, e.g., pricing, certifications, etc.), a Vendor's failure to respond to evaluation criteria will not be considered a matter of responsiveness or responsibility. Vendors that fail to submit any information and/or documentation required by an evaluation criteria will not be evaluated or scored for the corresponding evaluation criteria.
- 3. The County is not required to request, consider, or analyze Vendor's Evaluation Criteria responses received after the solicitation response due date; however, the County reserves the right to obtain clarifying information from a Vendor in writing for the Evaluation Committee.
- 4. For Request for Proposals the following shall apply:
 - a. The Director of Purchasing may recommend to the Evaluation Committee to short list the most qualified firms prior to the Final Evaluation.

- b. The Evaluation Criteria identifies points available; a total of 100 points is available.
- c. If the Evaluation Criteria includes a request for pricing, the total points awarded for price is determined by applying the following formula:

(Lowest Proposed Price/Vendor's Price) x (Maximum Number of Points for Price)

- = Price Score
- d. After completion of scoring, the County may negotiate pricing as in its best interest.
- For Requests for Letters of Interest or Request for Qualifications the following shall apply:
 - a. The Evaluation Committee will create a short list of the most qualified firms.
 - b. The Evaluation Committee will either:
 - Rank shortlisted firms: or
 - ii. If the solicitation is part of a two-step procurement, shortlisted firms will be requested to submit a response to the Step Two procurement.

G. Demonstrations

Refer to **Special Instructions to Vendors** if Demonstrations are applicable. Vendors determined to be both responsive and responsible to the requirements of the solicitation and/or shortlisted (if applicable), will be required to demonstrate the nature of their offered solution. After receipt of solicitation responses, all Vendors will receive a description of, and arrangements for, the desired demonstration. All Vendors will have equal time for demonstrations, but the question-and-answer time may vary.

In accordance with Section 286.0113, Florida Statutes, and pursuant to the direction of the Broward County Board of Commissioners, demonstrations are closed to only the Vendor's team and County staff.

H. Presentations

Vendors that are determined to be both responsive and responsible to the requirements of the solicitation and/or shortlisted (if applicable) will have an opportunity to make an oral presentation to the Evaluation Committee on the Vendor's approach to this project and the Vendor's ability to perform. The committee may provide a list of subject matter for the discussion. All Vendor's will have equal time to present but the question-and-answer time may vary.

In accordance with Section 286.0113 of the Florida Statutes, and the direction of the Broward County Board of Commissioners, presentations during Evaluation Committee Meetings are closed. Only the Evaluation Committee members, County staff and the vendor and their team scheduled for that presentation will be present in the meeting during the presentation and subsequent question and answer period. Subconsultants partnering with multiple prime vendors may only be present during one presentation/question and answer session.

I. Public Art and Design Program

If indicated in Special Instructions to Vendors, Public Art and Design Program, Section 1-88, Broward County Code of Ordinances, applies to this project. It is the intent of the County to functionally integrate art, when applicable, into capital projects and integrate artists' design concepts into this improvement project. The Vendor may be required to collaborate with the artist(s) on design development within the scope of this request. Artist(s) shall be selected by

Broward County through an independent process. For additional information, contact the Broward County Cultural Division.

J. Evaluation Committee Meetings

Evaluation Committee Meetings are posted on Broward County's Sunshine Meetings website.

K. Committee Appointment

The committee members appointed for this solicitation are available on the Purchasing Division's website under Committee Appointment.

L. Committee Questions, Request for Clarifications, Additional Information

- 1. At any committee meeting, the Evaluation Committee members may ask questions, request clarification, or require additional information of any Vendor's submittal or proposal. It is highly recommended Vendors attend to answer any committee questions (if requested), including a Vendor representative that has the authority to bind.
- Vendor's answers may impact evaluation (and scoring, if applicable). Upon written request to the Purchasing Agent prior to the meeting, a conference call number will be made available for Vendor participation via teleconference. Only Vendors that are found to be both responsive and responsible to the requirements of the solicitation and/or shortlisted (if applicable) are requested to participate in a final (or presentation) Evaluation Committee meeting.

M. Vendor Questions

The County provides a specified time for Vendors to ask questions and seek clarification regarding solicitation requirements. All questions or clarification inquiries must be submitted electronically through Periscope S2G by the Question & Answer due date and time specified in the solicitation document (including any addenda). The County will respond to questions electronically through Periscope S2G.

N. Confidential Material/ Public Records and Exemptions

- 1. Broward County is a public agency subject to Chapter 119, Florida Statutes. Upon receipt, all submittals become "public records" and shall be subject to public disclosure consistent with Chapter 119, Florida Statutes. Submittals may be posted on the County's public website or included in a public records request response unless there is a declaration of "confidentiality" pursuant to the public records law and in accordance with the procedures in this section.
- 2. Any confidential material(s) the Vendor asserts is exempt from public disclosure under Florida Statutes must be labeled as "Confidential" and marked with the specific statute and subsection asserting exemption from Public Records. Electronic media, including flash drives, must also comply with this requirement and separate any files claimed to be confidential.
- 3. To submit confidential material, at least one copy (in print or electronic format) must be submitted in a sealed envelope, labeled "Confidential Matter" with the solicitation number, title, date and the time of solicitation opening to:

Broward County Purchasing Division 115 South Andrews Avenue, Room 212 Fort Lauderdale, FL 33301

- 4. Any materials that the Vendor claims to be confidential and exempt from public records must be marked and separated from the submittal. If the Vendor does not comply with these instructions, the Vendor's claim for confidentiality will be deemed as waived.
- Submitting confidential material may impact full discussion of your submittal by the Evaluation Committee because the Committee will be unable to discuss the details contained in the documents cloaked as confidential at the publicly noticed Committee meeting.

O. Copyrighted Materials

Copyrighted material is not exempt from the Public Records Law, Chapter 119, Florida Statutes. Submission of copyrighted material in response to any solicitation will constitute a license and permission for the County to use, reproduce, and publish (including both hard copy and electronic copies) as reasonably necessary for the evaluation of the solicitation response by County staff and agents, as well as to make the materials available for inspection or production pursuant to Public Records Law, Chapter 119, Florida Statutes.

P. State and Local Preferences

If the solicitation involves a federally funded project where the fund requirements prohibit the use of state and/or local preferences, such preferences contained in the Local Preference Ordinance and Broward County Procurement Code will not be applied in the procurement process.

Q. Local Preference

The following local preference provisions shall apply except where otherwise prohibited by federal or state law or other funding source restrictions.

For all competitive solicitations in which objective factors used to evaluate the responses from vendors are assigned point totals:

- a. Five percent (5%) of the available points (for example, five points of a total 100 points) shall be awarded to each locally based business and to each joint venture composed solely of locally based businesses, as applicable;
- b. Three percent (3%) of the available points shall be awarded to each locally based subsidiary and to each joint venture that is composed solely of locally based subsidiaries, as applicable; and
- c. For any other joint venture, points shall be awarded based upon the respective proportion of locally based businesses and locally based subsidiaries' equity interests in the joint venture.

If, upon the completion of final rankings (technical and price combined, if applicable) by the Evaluation Committee, a nonlocal vendor is the highest ranked vendor and one or more Local Businesses (as defined by Section 1-74 of the Broward County Code of Ordinances) are within five percent (5%) of the total points obtained by the nonlocal vendor, the highest ranked Local Business shall be deemed to be the highest ranked vendor overall, and the County shall

proceed to negotiations with that vendor. If impasse is reached, the County shall next proceed to negotiations with the next highest ranked Local Business that was within five percent (5%) of the total points obtained by the nonlocal vendor, if any.

Refer to Section 1-75 of the Broward County Local Preference Ordinance and the **Location Certification Form** for further information.

R. Tiebreaker Criteria

In accordance with Section 21.42(d) of the Broward County Procurement Code, the tiebreaker criteria shall be applied based upon the information provided in the Vendor's response to the solicitation.

In order to receive credit for any tiebreaker criterion, complete and accurate information must be contained in the Vendor's submittal.

- 1. Location Certification Form:
- 2. Domestic Partnership Act Certification;
- 3. Tiebreaker Criteria Form: Volume of Payments Over Five Years

S. Posting of Solicitation Results and Recommendations

The Broward County Purchasing Division's website is the location for the County's posting of all solicitations and recommendation for award and recommendation of rankings. It is the obligation of each Vendor to monitor the website in order to obtain complete and timely information.

T. Review and Evaluation of Responses

An Evaluation Committee is responsible for recommending the most qualified Vendor(s). The process for this procurement may proceed in the following manner:

1. The Purchasing Division delivers the solicitation submittals to agency staff for summarization forthe committee members. Agency staff prepares a report, including a matrix of responses submitted by the Vendors. This may include a technical review, if applicable. If a demonstration is required, County will appoint a Technical Review Team ("TRT") to view all Vendor demonstrations. The TRT will be comprised of County staff with specific subject matter expertise. The TRT will review all Vendor demonstrations for compliance with the Demonstration Script. The Project Manager will compile the results of each Vendor's demonstration into a final

TRT Report. The TRT Report will be distributed to the Evaluation Committee members prior to the Final Evaluation Meeting.

- 2. A solicitation may only be awarded to a vendor whose submission is responsive to the requirements of the solicitation. The Director of Purchasing shall determine whether submissions are responsive. For solicitations in which an Evaluation Committee has been appointed, the Director of Purchasing's determination regarding responsiveness is not binding on the Evaluation Committee, which may accept or reject such determination but must state with specificity the basis for any rejection thereof.
- 3. The Evaluation Committee, with assistance of the Purchasing Division and based on information provided by the applicable County Agencies and the Office of the County

Attorney, shall determine whether vendors who have submitted responsive submissions are responsible. Notwithstanding the foregoing, the awarding authority for a solicitation shall have the ultimate authority to determine whether vendors who have submitted responsive submissions are responsible. When making determinations of responsibility, the Director of Purchasing or the Evaluation Committee (as applicable) may request additional information from any vendor on matters that may affect a vendor's responsibility. The failure of a vendor to provide information requested by the County may result in a determination of non- responsibility. In addition, a vendor may submit information regarding its responsibility; provided, however, that such information shall not be considered if it contradicts or materially alters the information provided by the vendor in its original response to the solicitation.

U. Vendor Protest

Part X of the Broward County Procurement Code sets forth procedural requirements that apply if a Vendor intends to protest a solicitation or proposed award of a contract and states in part the following:

- 1. Any written protest concerning the specifications or requirements of a solicitation (or of any addenda thereto) must be received by the Director of Purchasing within five (5) business days after the applicable solicitation (or addenda) is posted on the Purchasing Division's website.
- Any written protest concerning a proposed award or ranking must be received by the Director of Purchasing within five (5) business days after the proposed award or ranking is posted on the Purchasing Division's website.
- 3. Calculation of Days. Unless otherwise expressly stated, all references to "days" mean calendar days between the hours of 8:30 a.m. and 5:00 p.m., excluding days that are County holidays. All references to "business days" mean Monday through Friday between the hours of 8:30 a.m. and 5:00 p.m., excluding days that are County holidays. In calculating time periods, the day of the event that triggers the time period shall be excluded from the calculation (for example, objections to a ranking must be filed within three (3) business days after the ranking is posted, so an objection to a ranking posted on a Monday must be filed no later than 5:00 p.m. on Thursday). Failure to file a written protest so that it is received by the Director of Purchasing within the timeframes set forth in Part X of the Broward County Procurement Code shall constitute a waiver of the right to protest. A protest submitted to anyone other than the Director of Purchasing shall not be a valid protest.
- 4. Except as to any protest of the specifications or requirements of a solicitation, as a condition of initiating any protest, the protestor must, concurrently with filing the protest, pay a filing fee for the purpose of defraying the costs in administering the protest in accordance with the scheduled provided below. The filing fee shall be refunded if the protestor prevails in the protest. Failure to timely pay the required filing fee shall render the protest invalid.

Estimated Contract	
Amount	Filing Fee
Mandatory Bid Amount up to	
\$250,000	\$500
\$250,000 - \$500,00	\$1,000
\$500,001 - \$5 million	\$3,000

GEN2126726Q1

Over \$5 million \$5.000

The estimated contract amount shall be the total bid amount offered by the protesting vendor in its response to the solicitation, inclusive of any contract renewals or extensions. If no bid amount was submitted by the protestor, the estimated contract amount shall be the County's estimated contract price for the procurement. The County will accept a filing fee in the of a money order, certified check, or cashier's check, payable to "Broward County," or other manner of payment approved by the Director of Purchasing.

V. Right To Appeal

The protestor may appeal the Director of Purchasing's denial of the protest with respect to the proposed award of a solicitation in accordance with Part XII of the Broward County Procurement Code. Decisions by the Director of Purchasing with respect to the specifications or requirements of a solicitation may only be appealed to the County Administrator or their designee, who shall determine the method, timing, and process of the appeal and whose decision shall be final.

- 1. The appeal must be received by the Director of Purchasing within ten (10) days after the date of the determination being appealed.
- The appeal must be accompanied by an appeal bond by a Vendor having standing to protest and must comply with all other requirements of Part XII of the Broward County Procurement Code.
- 3. Except as otherwise provided by law, the filing of an appeal is an administrative remedy that must be exhausted prior to the filing of any civil action against the County concerning any subject matter that, had an appeal been filed, could have been addressed as part of the appeal.

W. Rejection of Responses

The Director of Purchasing may reject all responses to a solicitation, even when only one response is received, if the Director of Purchasing determines that doing so would be in the best interest of the County; provided, however, that only the Board may reject all responses to a solicitation where the issuance of the solicitation was approved by the Board.

X. Negotiations

Once a ranking is deemed final, the County shall commence contract negotiations with the top-ranked vendor (or, if provided in the solicitation, with multiple top-ranked vendors simultaneously). If the negotiation does not result in mutually satisfactory contract terms within a reasonable time, as determined by the Director of Purchasing, then the Director of Purchasing may terminate negotiations with the applicable vendor and commence (or continue, if the solicitation provided for negotiation with multiple top-ranked vendors) negotiations with the next- ranked vendor(s) or issue a new solicitation, as the Director of Purchasing determines to be in the best interest of the County.

Y. Submittal Instructions:

- 1. Broward County does not require any personal information (as defined under Section 501.171, Florida Statutes), such as social security numbers, driver license numbers, passport, military ID, bank account or credit card numbers, or any personal pin numbers, in order to submit aresponse for ANY Broward County solicitation. DO NOT INCLUDE any personal information data in any document submitted to the County. If any
 - personal information data is part of a submittal, this information must be redacted prior to submitting a response to the County.
- Vendor MUST submit its solicitation response electronically through Periscope S2G and MUST confirm its solicitation response in order for the County to receive a valid response through Periscope S2G. It is the Vendor's sole responsibility to assure its response is submitted and received through Periscope S2G by the date and time specified in the solicitation.

- 3. The County will not consider solicitation responses received by other means. Vendors are encouraged to submit their responses in advance of the due date and the time specified in the solicitation. In the event that the Vendor is having difficulty submitting the solicitation response electronically through Periscope S2G, immediately notify the Purchasing Agent and then contact Periscope S2G for technical assistance.
- 4. Vendor must view, submit, and/or accept each of the documents in Periscope S2G. Web-fillable forms can be filled out and submitted through Periscope S2G.
- 5. After all documents are viewed, submitted, and/or accepted in Periscope S2G, the Vendor must upload additional information requested by the solicitation (i.e. Evaluation Criteria and Financial Statements) in the Item Response Form in Periscope S2G, under line one (regardless if pricing requested). Evaluation Criteria responses should be non-locked file format.
- 6. If the Vendor is declaring any material confidential and exempt from Public Records, refer to Confidential Material/ Public Records and Exemptions for instructions on submitting confidential material.
- 7. After all files are uploaded, Vendor must submit and CONFIRM its offer (by entering password) for offer to be received electronically through Periscope S2G.
- 8. If a solicitation requires an original Proposal Bond (per Special Instructions to Vendors), Vendor must submit in a sealed envelope, labeled with the solicitation number, title, date and the time of solicitation opening to:

Broward County Purchasing Division 115 South Andrews Avenue, Room 212 Fort Lauderdale, FL 33301

9. A copy of the Proposal Bond should also be uploaded into Periscope S2G; this does not replace the requirement to have an original proposal bond. Vendors must submit the original Proposal Bond, by the due date and time specified in the solicitation.

Revised June 15, 2023

Supplier: Barclays Bank US

Procurement Preferences for Broward County Small Business Enterprises and County Business Enterprises

This should be returned with the Vendor's submittal and will be used for informational purposes.

In accordance with Broward County Ordinance, Section 1.81, non-reserved solicitations (for certified Small Business Enterprises (SBEs) or County Business Enterprises (CBEs) and solicitations without any assigned CBE goals, a responding Broward County certified SBE or CBE may be eligible for a procurement preference, in accordance with below:

For Invitations to Bid and Quotation Requests:

If a responsive, responsible bid is received from a certified CBE or SBE that is within ten percent (10%) of the lowest responsive, responsible bid received from a non-certified (SBE or CBE) firm, the SBE or CBE (as applicable) shall be offered the opportunity to match the lowest responsive, responsible bid. If the SBE or CBE firm (as applicable) is responsive and responsible, and matches the lowest responsive, responsible bid, the CBE or SBE firm shall be recommended for award.

For Request for Proposals:

If upon the completion of final rankings by the Evaluation Committee, a non-certified proposer is the highest-ranked proposer, and a responsive, responsible SBE or CBE proposer receives a score thatis within five percent (5%) of the score obtained by the non-certified proposer, the highest-ranked responsive, responsible SBE or CBE proposer shall be considered the highest-ranked proposer and shall have the opportunity to proceed to negotiations with the County for award of the contract.

Vendor should indicate below if the firm is a currently certified Broward County SBE and/or CBE firm. If the firm does not indicate it is an SBE or CBE, preference may not be applied based on information received but certification will be verified in the Broward County OESBD <u>Certified Firm Directory</u>. Vendor must be certified at time of solicitation opening (due date).

☐ Firm is a Broward County certified SBE.	
☐ Firm is a Broward County certified CBE	

Firm is not a Broward County certified SBE or CBE

This does not substitute for certification or application for certification.

Vendor Name Barclays Capital Inc.

For questions regarding the Broward County SBE and CBE certifications, please contact Office of Economic and Small Business Development at 954-357-6400.

Revised May 1, 2021

Supplier: Barclays Bank US

VENDOR QUESTIONNAIRE AND STANDARD CERTIFICATIONS Request for Proposals, Request for Qualifications, or Request for Letters of Interest

The completed form, including acknowledgment of the standard certifications and should be submitted with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County's written request. Failure to timely submit may affect Vendor's evaluation.

If a response requires additional information, the Vendor should upload a written detailed response with submittal; each response should be numbered to match the question number. The completed questionnaire and attached responses will become part of the procurement record. It is imperative that the person completing the Vendor Questionnaire be knowledgeable about the proposing Vendor's business and operations.

	ome part of the procurement record. It is imperative that the per ut the proposing Vendor's business and operations.	son completing the Vendor Questionnaire be knowledged
1.	Legal business name: Barclays Capital Inc.	
2.	Doing Business As/ Fictitious Name (if applicable): N/A	
3.	Federal Employer I.D. no. (FEIN): 061031656	
4.	Dun and Bradstreet No.: 186430021	
5.	Website address (if applicable): https://www.cib.barclays/	
6.	Principal place of business address: 745 Seventh Avenue, New	York NY 10019, United States
7.	Office location responsible for this project: 745 Seventh Avenue,	New York NY 10019, United States
8.	Telephone no.: 3057895674 Fax no.:	
9.	Type of business (check appropriate box):	
	Corporation (specify the state of incorporation:	☑ CT
	Sole Proprietor	
	Limited Liability Company (LLC)	
	Limited Partnership	
	General Partnership (State and County Filed In)	
	Other – Specify	
10	D. List <u>Florida Department of State, Division of Corporations</u> docu 847836	ment number (or registration number if fictitious name):
11.	. List name and title of each principal, owner, officer, and major sha	reholder:
	a) https://brokercheck.finra.org/firm/summary/19714b)c)	

d)

12. A	UTHORIZED CONTACT(S) FOR YOUR FIRM:
N	ame: Luis Alfaro
Ti	tle: Managing Director
E	-mail: Iuis.alfaro@barclays.com
Te	elephone No.: 3057895674
N	ame:
Ti	tle:
E	-mail:
Te	elephone No.:
13. 14.	entity within the last three years? If yes, specify details in an attached written response. Yes No Has your firm, its principals, officers or predecessor organization(s) ever been debarred or suspended by any government entity? If yes, specify details in an attached written response, including the reinstatement date, if granted. Yes No
15.	Has your firm ever failed to complete any services and/or delivery of products during the last three (3) years? If yes,
16.	specify details in an attached written response. Security Proceedings of the specify specify response to the specify specify the specific procedure.
17.	details in an attached written response. Yes No Have any voluntary or involuntary bankruptcy petitions been filed by or against your firm, its parent or subsidiaries or predecessor organizations during the last three years? If yes, specify details in an attached written response. Yes
18.	No Has your firm's surety ever intervened to assist in the completion of a contract of have Performance and/or Payment Bond claims been made to your firm or its predecessor's sureties during the last three years? If yes, specify details in an attached written response, including contact information for owner and surety. Yes No
19.	Has your firm ever failed to complete any work awarded to you, services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response.
20.	Has your ever been terminated from a contract within the last three years? If yes, specify details in an attached written response. Yes No
21.	Living Wage solicitations only: In determining what, if any, fiscal impact(s) are a result of the Ordinance for this solicitation, provide the following for informational purposes only. Response is not considered in determining the award of this contract.
	Living Wage had an effect on the pricing. Yes No N/A
22.	If yes, Living Wage increased the pricing by: %. Participation in Solicitation Development:
	✓ I have not participated in the preparation or drafting of any language, scope, or specification that would provide my firm or any affiliate an unfair advantage of securing this solicitation that has been let on behalf of Broward County Board of County Commissioners.
	I have provided information regarding the specifications and/or products listed in this solicitation that has been let on behalf of Broward County Board of County Commissioners. If this box is checked, provide the following: Name of Person the information was provided: Title: Date information provided: For what purpose was the information provided?

Drug-Free Workplace Requirements Certification:

Section 21.23(f) of the Broward County Procurement Code requires awards of all competitive solicitations requiring Board award be made only to firms certifying the establishment of a drug free workplace program.

The Vendor hereby certifies that it has established a drug free workplace program in accordance with the requirements of Section 1-71, et. Seq., of the Broward County Code of Ordinances (Procurement From Businesses With Drug-Free Workplace Program).

Non-Collusion Certification:

Vendor shall disclose, to their best knowledge, any Broward County officer or employee, or any relative of any such officer or employee as defined in Section 112.3135 (1) (c), Florida Statutes, who is an officer or director of, or has a material interest in, the Vendor's business, who is in a position to influence this procurement. Any Broward County officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be ina position to influence this procurement. Failure of a Vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the Broward County Procurement Code.

The Vendor hereby certifies that: (select one)

The Vendor certifies that this offer is made independently and free from collusion; or

The Vendor is disclosing names of officers or employees who have a material interest in this procurement and is in a position to influence this procurement. Vendor must include a list of name(s), and relationship(s) with its submittal.

Public Entities Crimes Certification:

In accordance with Public Entity Crimes, Section 287.133, Florida Statutes, a person or affiliate placed on the convicted vendor list following a conviction for a public entity crime may not submit on a contract: to provide any goods or services; for construction or repair of a public building or public work; for leases of real property to a public entity; andmay not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s.

287.017 for Category Two for a period of 36 months following the date of being placed on the convicted vendor list.

The Vendor hereby certifies that: (check box)

The Vendor certifies that no person or affiliates of the Vendor are currently on the convicted vendor list and/or has not been found to commit a public entity crime, as described in the statutes.

Scrutinized Companies List Certification:

Any company, principals, or owners on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List is prohibited from submitting a response to a solicitation for goods or services in an amount equal to or greater than \$1 million.

The Vendor hereby certifies that: (check each box)

- ☑ The Vendor, owners, or principals are aware of the requirements of Sections 287.135, 215.473, and 215.4275, Florida Statutes, regarding Companies on the Scrutinized Companies with Activities in Sudan List the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- The Vendor, owners, or principals, are eligible to participate in this solicitation and are not listed on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- If awarded the Contract, the Vendor, owners, or principals will immediately notify the County in writing if any of its principals are placed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List.

I hereby certify the information provided in the Vendor Questionnaire and Standard Certifications:

Luis AlfaroManaging Director8/10/23*AUTHORIZED SIGNATURE/NAMETITLEDATE

Vendor Name: Barclays Capital Inc

* I certify that I am authorized to sign this solicitation response on behalf of the Vendor as indicated in Certificate as to Corporate Principal, designation letter by Director/Corporate Officer, or other business authorization to bind on behalf of the Vendor. As the Vendor's authorized representative, I attest that any and all statements, oral, written or otherwise, made in support of the Vendor's response, are accurate, true and correct. I also acknowledge that inaccurate, untruthful, or incorrect statements made in support of the Vendor's response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to PART XI of the Broward County Procurement Code. I certify that the Vendor's response is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a response for the same items/services, and is in all respects fair and without collusion or fraud. I also certify that the Vendor agrees to abide by all terms and conditions of this solicitation, acknowledge and accept all of the solicitation pages as well as any special instructions sheet(s).

LOBBYIST REGISTRATION REQUIREMENT CERTIFICATION

The completed should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

The Vendor certifies that it understands if it has retained a lobbyist(s) to lobby in connection with a competitive solicitation, it shall be deemed non-responsive unless the firm, in responding to the competitive solicitation, certifies that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances; and it understands that if, after awarding a contract in connection with the solicitation, the County learns that the certification was erroneous, and upon investigation determines that the error was willful or intentional on the part of the Vendor, the County may, on that basis, exercise any contractual right to terminate the contract for convenience.

The Vendor hereby certifies that: (select one) It has not retained a lobbyist(s) to lobby in connection with this competitive solicitation; however, if retained after the solicitation, the County will be notified. It has retained a lobbyist(s) to lobby in connection with this competitive solicitation and certified that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances. It is a requirement of this solicitation that the names of any and all lobbyists retained to lobby in connection with this solicitation be listed below: Name of Lobbyist: Lobbyist's Firm: Phone: E-mail: Name of Lobbyist: Lobbyist's Firm: Phone: E-mail: **TITLE Authorized Signature/Name**

Revised May 1, 2021

Vendor Name

DATE

DOMESTIC PARTNERSHIP ACT CERTIFICATION

The Domestic Partnership Act, Sections 16 $\frac{1}{2}$ - 150 through 16 $\frac{1}{2}$ -165, Broward County Code of Ordinances (the "Act") requires any Vendors contracting with the County, in an amount over \$100,000 provide benefits to registered domestic partners of its employees, on the same basis as it provides benefits to employees' spouses, with certain exceptions as provided by the Act.

Refer to applicable section below based on solicitation type. Failure to submit this form by stated timeframes will deem the Vendor nonresponsive to the solicitation or ineligible for the Domestic Partnership tiebreaker, as applicable.

For Invitation for Bids:

The completed and signed form should be returned with the Vendor's submittal. If not provided with the submittal, the Vendor must submit this form within three business days after County's request. A Vendor shall be deemed non-responsive for failure to fully comply within stated timeframes.

For Request for Proposals (RFPs), Request for Letters of Interest (RLIs), or Request for Qualifications (RFQs):

For the solicitation types referenced in this section, this form can be used for multiple purposes. For solicitations that contain Competitive Consultants' Negotiation Act (CCNA) requirements, this form will be used for tiebreaker criterion only.

1. Domestic Partnership Responsiveness Requirement

If Domestic Partnership is a requirement of the solicitation (refer to Special Instructions to Vendors), this completed and signed form should be returned with the Vendor's submittal. If not provided with the submittal, the Vendor must submit this form within three business days after County's request. A Vendor shall be deemed non-responsive for failure to fully comply within stated timeframes.

2. Domestic Partnership Tiebreaker

award.

To be eligible for the Domestic Partnership tiebreaker, the Vendor must currently offer the Domestic Partnership benefit and the completed and signed form must be returned at the time of solicitation submittal. Vendors who fail to comply with this submittal deadline will not be eligible for the Domestic Partnership tiebreaker.

For all submittals over \$100,000.00, the Vendor, by virtue of the signature below, certifies that it is aware of the requirements of Broward County's Domestic Partnership Act, Sections $16-\frac{1}{2}$ -150 through $16\frac{1}{2}$ - 165, Broward County Code of Ordinances; and certifies the following: (check only one below).

1. The Vendor currently complies with the requirements of the County's Domestic Partnership Act and provides benefits to Domestic Partners (as defined in the Act) of its employees on the same basis as it provides benefits to employees' spouses.
 2. The Vendor will comply with the requirements of the County's Domestic Partnership Act at time of contract award and for the duration of the contract by providing benefits to Domestic Partners (as defined in the Act) of its employees on the same basis as it provides benefits to employees' spouses.

3. The Vendor will not comply with the requirements of the County's Domestic Partnership Act at time of

8/16/2023 BidSync p. 75

Authorized S	ignature	e/Name Title	Vendor	Date	
Luis Aliaro		Managing Director	Barclays Capital Inc	6/10/23	
Luis Alfaro		conditions of a grant or contract Florida. (Indicate the law, statute of its applicability).	t with the United Storregulation and attach	ates or State of	
		The Vendor cannot comply wi Partnership Act because it would v federal or state law or would violat	riolate the laws, rules	or regulations of	
		The Vendor provides an employ (Attach an affidavit in compliance or provide such benefits and the amo	with the Act stating th	e efforts taken to	
		The Vendor is a religious organiza profit charitable or educational supervised, or controlled by organization, association, or societ	institution or organi or in conjunction v	zation operated,	
		The Vendor is a governmental entity	' .		
		The Vendor does not provide benefi	ts to employees' spou	ises.	
		The Vendor employs less than five ((5) employees.		
4.		dor does not need to comply with the of award because the following except			p Act at

Revised January 24, 2023

There are no material cases for this Vendor; or

Material Case(s) are disclosed below:

4

LITIGATION HISTORY FORM

The completed form(s) should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

Is this for a: (check type)	If Yes, name of Pa	rent/Subsidiary,	/Predecessor:			
Parent, Subsidiary, or	O-N-					
Predecessor Firm?	Or No					
Party						
Case Number, Name,						
and Date Filed						
Name of Court or other						
tribunal						
Type of Case	Bankruptcy 🔲	Civil 🔲	Criminal 🔲	Administrative/Regulatory		
Claim or Cause of Action and						
Brief description of each Count						
Brief description of the Subject						
Matter and Project Involved						
Disposition of Case	Pending	S	ettled 🔲	Dismissed		
(Attach copy of any applicable	Judgment Vendor's Favor Judgment Against Vendor					
Judgment, Settlement	Judgment vendor 3 ravor — Judgment Agamst vendor					
Agreement and Satisfaction of		_				
Judgment.)		If Judgment Aga	inst, is Judgment	Satisfied? Yes No		
Opposing Counsel	Name:					
	Email:					
	L Telephone Numbe	or.				

Vendor Name:

Revised May 1, 2021

CRIMINAL HISTORY SCREENING PRACTICES CERTIFICATION FORM

The completed and signed form should be returned with Vendor's submittal. If Vendor does not provide it with the submittal, Vendor must submit the completed and signed form within three business days after County's request. Vendor shall be deemed nonresponsive for failure to fully comply within stated timeframes.

Section 26-125(d) of the Broward County Code of Ordinances ("Criminal History Screening Practices") requires that a Vendor seeking a contract in the amount of \$100,000 or more with Broward County shall certify that it has implemented, or will implement upon award of the contract, policies, practices, and procedures regarding inquiry into the criminal history of an applicant for employment, including a criminal history background check of any such person, that preclude inquiry into an applicant's criminal history until the applicant is selected as a finalist and interviewed for the position. The requirement in the preceding sentence shall apply only to positions located within the United States that will foreseeably perform work under a contract with Broward County. The failure of Vendor to comply with Section 26-125(d) at any time during the contract term shall constitute a material breach of the contract, entitling Broward County to pursue any remedy permitted under the contract and any other remedy provided under applicable law. If Vendor fails to comply with Section 26-125(d) at any time during the contract term, Broward County may, in addition to all other available remedies, terminate the contract and Vendor may be subject to debarment or suspension proceedings consistent with the procedures in Chapter 21 of the Broward County Administrative Code.

By signing below, Vendor certifies that it is aware of the requirements of Section 26-125(d), Broward County Code of Ordinances, and certifies the following: (check only one below).

✓ Vendor certifies that, for positions located within the United States that will foreseeably perform work under a contract with Broward County, it has implemented, or will implement upon award of the contract, policies, practices, and procedures regarding inquiry into the criminal history of an applicant for employment, including a criminal history background check of any such person, that preclude inquiry into an applicant's criminal history until the applicant is selected as a finalist and interviewed for the position.

■ Vendor is exempt from the requirements of Section 26-125(d) of the Broward County Code of Ordinances because Vendor is required by applicable federal, state, or local law to conduct a criminal history background check in connection with potential employment at a time or in a manner that would otherwise be prohibited by this section, or because Vendor is a governmental agency.

AUTHORIZED SIGNATURE/ NAME: Luis Alfaro

VENDOR NAME: Barclays Capital Inc

TITLE: Managing Director

DATE: 8/10/23

Revised June 17, 2022

AGREEMENT EXCEPTION FORM

The completed form(s) should be submitted with the solicitation response. If not submitted with solicitation response, it shall be deemed an affirmation by the Vendor that it accepts contract terms and conditions stated in the solicitation.

The Vendor must provide on the form below, any and all exceptions it takes to the contract terms and conditions stated in the solicitation, including all proposed modifications to the contract terms and conditions or proposed additional terms and conditions. Additionally, a brief justification specifically addressing each provision to which an exception is taken should be provided.

•	·
	The following exceptions are taken to the contract terms and conditions state in this soliciation: (use additional forms as needed; separate each Article/ Section number)

There are no exceptions to the contract terms and conditions state in this solicitation; or

Term or Condition Article / Section	Insert proposed modifications to the contract terms and conditions or proposed additional terms and condition	Provide brief justification for proposed modifications

Vendor Name: Barclays Capital Inc

Revised May 1, 2021

AFFILIATED ENTITIES OF THE PRINCIPAL(S) CERTIFICATION

The completed form should be submitted with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County's request. Failure to timely submit may result in Vendor being deemed non-responsive.

- a. All Vendors are required to disclose the names and addresses of "affiliated entities" of the Vendor's principal(s) over the last five (5) years (from the solicitation opening deadline) that have acted as a prime Vendor with the County.
- b. The County will review all affiliated entities of the Vendor's principal(s) for contract performance evaluations and the compliance history with the County's Small Business Development Program, including County Business Enterprise (CBE), Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE) goal attainment requirements. "Affiliated entities" of the principal(s) are those entities related to the Vendor by the sharing of stock or other means of control, including but not limited to a subsidiary, parent or sibling entity.
- c. The County will consider the contract performance evaluations and the compliance history of the affiliated entities of the Vendor's principals in its review and determination of responsibility.

The Vendor hereby certifies that: (select one)

Principal's Name: Names of Affiliated Entities: Principal's Name: Names of Affiliated Entities: Principal's Name: Names of Affiliated Entities:
Authorized Signature Name: Title: Vendor Name:

Revised 11/24/2021

Date:

LOCATION CERTIFICATION

Refer to applicable sections for submittal instructions. Failure to submit required forms or information by stated timeframes will deem vendor ineligible for local preference or location tiebreaker.

Broward County <u>Code of Ordinances</u>, <u>Section 1-74</u>, et seq., provides certain preferences to Local Businesses, Locally Based Businesses, and Locally Based Subsidiaries, and the <u>Broward County Procurement Code</u> provides location as the first tiebreaker criteria. Refer to the ordinance for additional information regarding eligibility for local preference.

For Invitation for Bids:

To be eligible for the Local Preference best and final offer ("BAFO") and location tiebreaker, the Vendor must submit this fully completed form and a copy of its Broward County local business tax receipt at the same time it submits its bid. Vendors who fail to comply with this submittal deadline will not be eligible for either the BAFO or the location tiebreaker.

For Request for Proposals (RFPs), Request for Letters of Interest (RLIs), or Request for Qualifications (RFQs):

For Local Preference eligibility, the Vendor **should** submit this fully **completed form** and **all Required Supporting Documentation** (as indicated below) at the time Vendor submits its response to the procurement solicitation. If not provided with submittal, the Vendor **must** submit within three business days after County's written request. Failure to submit required forms or information by stated timeframes will deem the Vendor ineligible for local preference.

To be eligible for the location tiebreaker, the Vendor must submit this fully completed form and a copy of its Broward County local business tax receipt at the same time it submits its response. Vendors who fail to comply with this submittal deadline will not be eligible for the location tiebreaker.

The undersigned Vendor hereby certifies that (check the box for only one option below):

- Option 1: The Vendor is a Local Business, but does not qualify as a Locally Based Business or a Locally Based Subsidiary, as each term is defined by Section 1-74, Broward County Code of Ordinances. The Vendor further certifies that:
 - A. It has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised),
 - i. a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exemptfrom business tax receipt requirements),
 - ii. in an area zoned for the conduct of such business.
 - iii. that the Vendor owns or has the legal right to use, and
 - iv. from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to BrowardCounty in connection with the applicable competitive solicitation (as so defined, the "Local Business Location").

If Option 1 selected, indicate Local Business Location:

- Option 2: The Vendor is both a Local Business and a Locally Based Business as each term is defined by Section 1-74, Broward County Code of Ordinances. The Vendor further certifies that:
 - A. The Vendor has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitationwas advertised),

- i. a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
- ii. in an area zoned for the conduct of such business,
- iii. that the Vendor owns or has the legal right to use, and
- iv. from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation as so defined, the "Local Business Location");
- B. The Local Business Location is the primary business address of the majority of the Vendor's employees as of the bid posting date, and/or the majority of the work under the solicitation, if awarded to the Vendor, will be performed by employees of the Vendor whose primary business address is the Local Business Location:
- C. The Vendor's management directs, controls, and coordinates all or substantially all of the day-to-day activities of the entity (such as marketing, finance, accounting, human resources, payroll, and operations) from the Local Business Location;
- D. The Vendor has not claimed any other location as its principal place of business within the one (1) year period immediately preceding the bid posting date; and
- E. Less than fifty percent (50%) of the total equity interests in the business are owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County. The Vendor certifies that the total equity interests in the owned, directly or indirectly, by one or more entities with a principal place of business Vendor located outside of Broward County is .

If Option 2 selected, indicate Local Business Location:

- **Option 3:** The Vendor is both a **Local Business** and a **Locally Based Subsidiary** as each term is defined by Section 1-74, Broward County Code of Ordinances. The Vendor further certifies that:
 - A. The Vendor has continuously maintained:
 - i. for at least the one (1) year period immediately preceding the bid posting date(i.e., the date on which the solicitation was advertised),
 - ii. a physical business address located within the limits of Broward County, listedon the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
 - iii. in an area zoned for the conduct of such business,
 - iv. that the Vendor owns or has the legal right to use, and
 - V. from which the Vendor operates and performs on a day-to-day basis businessthat is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location");
 - B. The Local Business Location is the primary business address of the majority of the Vendor's employees as of the bid posting date, and/or the majority of the work under the solicitation, if awarded to the Vendor, will be performed by employees of the Vendor whose primary business address is the Local Business Location;
 - C. The Vendor's management directs, controls, and coordinates all or substantiallyall of the day-to-day activities of the entity (such as marketing, finance, accounting, human resources, payroll, and operations) from the Local Business Location;
 - D. The Vendor has not claimed any other location as its principal place of business within the one (1) year period immediately preceding the bid posting date; and
 - E. At least fifty percent (50%) of the total equity interests in the business are owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County. The Vendor certifies that the total equity interests in the Vendor owned, directly or indirectly, by one or more entities with aprincipal place of business located outside of Broward County is .

If Option 3 selected, indicate **Local Business Location**:

- **Option 4:** The Vendor is a **joint venture** composed of one or more Local Businesses, Locally Based Businesses, or Locally Based Subsidiaries, as each term is defined by Section 1-74, Broward County Code of Ordinances. Fill in blanks with percentage equity interest or list "N/A" if section does not apply. The Vendor further certifies that:
 - A. The proportion of equity interests in the joint venture owned by **Local Business(es)** (each Local Business must comply with all of the requirements stated in Option 1) is % of the total equity interests in the joint venture; and/or
 - B. The proportion of equity interests in the joint venture owned by **Locally Based Business(es)** (each Locally Based Business must comply with all of the requirements stated in Option 2) is % of the total equity interests in thejoint venture; and/or
 - C. The proportion of equity interests in the joint venture owned by **Locally Based Subsidiary(ies)** (each Locally Based Subsidiary must comply with all of the requirements stated in Option 3) is % of the total equity interests in thejoint venture.

If Option 4 selected, indicate the Local Business Location(s) (es) on separate sheet.

✓ Option 5: Vendor is not a Local Business, a Locally Based Business, or a Locally Based Subsidiary, as each term is defined by Section 1-74, Broward County Code of Ordinances.

Required Supporting Documentation (in addition to this form): Option 1 or 2 (Local Business or Locally Based Business):

1. Broward County local business tax receipt.

Option 3 (Locally Based Subsidiary)

- 1. Broward County local business tax receipt.
- 2. Documentation identifying the Vendor's vertical corporate organization and names ofparent entities if the Vendor is a Locally Based Subsidiary.

Option 4 (**joint venture** composed of one or more Local Business(es), Locally Based Business(es), or Locally Based Subsidiary(ies):

- 1. Broward County local business tax receipt(s) for each Local Business(es), Locally Based Business(es), and/or Locally Based Subsidiary(ies).
- 2. Executed joint venture agreement, if the Vendor is a joint venture.
- 3. If joint venture is comprised of one or more Locally Based Subsidiary(ies), submit documentation identifying the vertical corporate organization and parent entitiesname(s) of each Locally Based Subsidiary.

If requested by County (any option):

- 1. Written proof of the Vendor's ownership or right to use the real property at the LocalBusiness Location.
- 2. Additional documentation relating to the parent entities of the Vendor.
- 3. Additional documentation demonstrating the applicable percentage of equity interests in the joint venture, if not shown in the joint venture agreement.
- 4. Any other documentation requested by County regarding the location from which theactivities of the Vendor are directed, controlled, and coordinated.

By submitting this form, the Vendor certifies that if awarded a contract, it is the intent of the Vendor to remain at the Local Business Location address listed below (or another qualifyingLocal Business Location within Broward County) for the duration of the contract term, including any renewals or extensions. (If nonlocal Vendor, leave Local Business Location blank.)

Indicate Local Business Location:

True and Correct Attestations:

Any misleading, inaccurate, or false information or documentation submitted by any party affiliated with this procurement may lead to suspension and/or debarment from doingbusiness with Broward County as authorized by

the Broward County Procurement Code. The Vendor understands that, if after contract award, the County learns that any of the information provided by the Vendor on this was false, and the County determines, upon investigation, that the Vendor's provision of such false information was willful or intentional, the County may exercise any contractual right to terminate the contract. The provision of false or fraudulent information or documentation by a Vendor may subject the Vendor to civil and criminal penalties.

AUTHORIZED SIGNATURE/NAME: Luis Alfaro

TITLE: Managing Director

VENDOR NAME: Barclays Capital Inc

DATE: 8/10/23

Revised May 1, 2021

VOLUME OF PREVIOUS PAYMENTS ATTESTATION FORM

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit this form and supporting documentation may affect the Vendor's evaluation.

This completed form <u>MUST</u> be included with the Vendor's submittal at the time of the opening deadline to be considered for a Tie Breaker criterion (if applicable).

Points assigned for Volume of Previous Payments will be based on the amount paid-to-date by the County to a prime Vendor **MINUS** the Vendor's confirmed payments paid-to-date to approved certified County Business Enterprise (CBE) firms performing services as Vendor's subcontractor/subconsultant to obtain the CBE goal commitment as confirmed by County's Office of Economic and Small Business Development. Reporting must be within five (5) years of< the current solicitation's opening date.

Vendor must list all received payments paid-to-date by contract as a prime vendor from Broward County Board of County Commissioners. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must also list all total confirmed payments paid-to-date by contract, to approved certified CBE firms utilized to obtain the contract's CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening< date.

In accordance with Section 21.41(h)(4) and 21.42(d)(3) of the Broward County Procurement Code, the Vendor with the lowest dollar volume of payments previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Vendor Name: Barclays Capital Inc

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	Prime: Paid to Date	CBE: Paid to Date
1.						
2.						
3.						
4.						
5.						
6.						
7.						

Grand Total

Has the	e Vend	lor bee	n a member/partner of a Joint Venture firm that was awarded a contract by the County?
Yes		No	
If Yes,	Vend	or mu	st submit a Joint Vendor Volume of Work Attestation Form .

Luis Alfaro Managing Director 8/10/23
Authorized Signature/Name Title Date

VOLUME OF PREVIOUS PAYMENTS ATTESTATION FORM FOR JOINT VENTURE

If applicable, this form and additional required documentation should be submitted with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit this form and supporting documentation may affect the Vendor's evaluation.

If a Joint Venture, the payments paid-to-date by contract provided must encompass the Joint Venture and each of the entities forming the Joint Venture.

Points assigned for Volume of Previous Payments will be based on the amount paid-to-date by contract to the Joint Venture firm **MINUS** all confirmed payments paid-to-date to approved certified CBE firms utilized to obtain the CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date. Amount will then be multiplied by the member firm's equity percentage.

In accordance with Section 21.41(h)(4) and 21.42(d)(3) of the Broward County Procurement Code, the Vendor with the lowest dollar volume of payments previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	JV Equity Percent	Prime: Paid to Date	CBE: Paid to Date
1.							
2.							
3.							
4.							
5.							
6.							
7.	·		·				
8.			·				

Grand Total

Vendor is required to submit an executed Joint Venture agreement(s) and any amendments for each project listed above. Each agreement must be executed prior to the opening date of this solicitation.

Vendor Name:

Revised May 1, 2021

Authorized Signature/Name Title Date

8/16/2023 BidSync p. 86

Summary of Vendor Rights Regarding Broward County Competitive Solicitations

The purpose of this document is to provide vendors with a summary of their rights to object to or protest a proposed award or recommended ranking of vendors in connection with Broward County competitive solicitations. These rights are fully set forth in the Broward County Procurement Code, available here: https://www.broward.org/purchasing.

1. Right to Object

For Requests for Proposals (RFP), Requests for Qualifications (RFQ) or Requests for Letters of Interest (RLI), vendors may object in writing to a proposed recommendation of ranking made by an Evaluation Committee. Objections must be filed within three (3) business days after the proposed recommendation of ranking (if applicable) is posted on the Purchasing Division's website. The written objection must comply with the requirements stated in Section 21.42(h) of the Procurement Code. Failure to timely and fully meet any requirement will result in the loss of a right to object.

2. Right to Protest

For Invitations to Bid (ITBs), RFP, RFQ, and RLIs, vendors may protest the specifications or requirements of a solicitation (or of any addenda). Protests must be received in writing by the Director of Purchasing within five (5) business days after the applicable solicitation (or addenda) is posted on the Purchasing Division's website.

For ITBs, vendors may protest a recommendation for award made by the Broward County Purchasing Division. For RFPs, RFQs, and RLIs, vendors may protest a final recommendation of ranking made by an Evaluation Committee. In all cases, protests must be filed in writing within five (5) business days after a recommended ranking or recommendation for award is posted on the Purchasing Division's website.

Any protest must comply with requirements stated in Part X of the Procurement Code, including a filing fee (if applicable). Failure to timely and fully meet any requirement will result in a loss of protest rights.

Vendors may appeal the denial of a protest. Section 21.81 of the Procurement Code identifies all other matters that may be appealed. Appeals may require payment of an appeal bond. Appeals must comply with requirements stated in Part XII of the Procurement Code. Failure to timely and fully meet any requirement will result in a loss of appeal rights.

Cone of Silence:

The Board of County Commissioners recently updated provisions of the Cone of Silence Ordinance, Section 1-266, of the Broward County Code of Ordinances, effective as of April 1, 2022.

The County's Cone of Silence Ordinance prohibits all communications, oral or written, relating to a competitive solicitation among vendors/vendor representatives, County Staff, and Commissioner Offices while the cone is in effect. Communications with Purchasing Division employees, the solicitation's designated Project Manager(s) or designee(s), the Office of Economic and Small Business (OESBD) Small Business Development Specialist Supervisor (954-357-6400), and others as specifically identified in the Cone of Silence Ordinance are permitted. Additionally, communication is permitted at pre-bid conferences and negotiation meetings, as applicable.

The Cone of Silence begins upon the advertisement of an ITB, RFP, RFQ, or RLI. The Cone of Silence terminates when the solicitation is awarded, all responses are rejected, or the Board takes other action which ends the solicitation.

Any violations of the Code of Silence Ordinance by any vendor/vendor representative, may be reported to the County's Professional Standards/Human Rights Section. If the County's Professional Standards/Human Rights Section determines that a violation has occurred, a fine shall be imposed as provided in the Broward County Code of Ordinances. At the sole discretion of the Broward County Board of County Commissioners, a violation may void an award of the applicable competitive solicitation.

Review the Cone of Silence Ordinance, Section 1-266 of the Broward County Code of Ordinances, for more detailed information.

Updated: April 1, 2022