Debt Issuance/Capital Planning and the Star Trek (Kobayashi Maru) Ohio APT Debt Seminar

Star Trek Original Series Intro (HQ) - YouTube

NCC-

June 6, 2023

https://www.youtube.com/watch?v=hdjL8WXjlG

Introduction

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Star Trek Original Series Intro (HQ) - YouTube

CAPITAL PLANNING OAPT Seminar June 6, 2023

Capital Planning

- Consider municipal infrastructure projects, facilities improvements, real property acquisition and capital outlay (equipment, vehicles, etc.)
- Need a capital project forecast, at least five years out; prioritizing the projects and outlining tentative construction/completion dates
- Determine/assign useful life (in years) to each project; ORC 133.20
- Estimated costs should be obtained from City Engineer, Service Director, department heads, etc.
- Priority project order is usually determined by the administration (Mayor & Council)

It is your responsibility (Finance Department) to provide the administration with sound financial opinions and support (data, schedules, etc.) as to the feasibility of each planned project or purchase. It is your duty to not be a "yes person".....you must often be the "no person" with regard to spending and borrowing.

When determining how to pay for capital projects, you should consider all of the options below, and be very resourceful when searching for funds; i.e., talk with people both inside (department heads, engineer, others) and outside (MA, bankers, other governments and state agencies, peers, other) of your entity. The larger and more complex the project is, the more resourceful (creative perhaps) you must be. Financing alternatives for capital spending include, but are not limited to:

Funding Sources/Alternatives

Cash is King

Pay as you go; determine which fund(s) are appropriate for the specific project or purchase; General Fund may be used, with the necessary authority, for most if not all projects; good practice to transfer funds from the GF to the capital project fund, or the appropriate fund where the purchase will be recorded; other funds often involved in paying some or all of various capital projects, particularly infrastructure improvements include ARPA, Utility (Enterprise) Funds, Tax Increment Financing Funds, Capital Project Funds, etc. Again, you should maintain financial forecasts so that you can evaluate the impact on each fund that you are considering using toward certain projects

Discuss Advances vs Transfers Resolution of Intent to Reimburse with Debt



Funding Sources/Alternatives

Grant Funding

- With assistance from the city engineer or others, see if the city is eligible for grants that may help pay for a portion of your project. There are a multitude of grants offered for many different purposes, available through many federal and state agencies, among other private entities as well, that can help fund substantial segments of your projects. It can be very tedious and confusing researching grant information, and subsequently completing grant applications. Many entities rely on their engineer or economic development people for grant application and research. Others employ a third party for this work.

OWDA, SIB, NOACA, OPWC, ODNR, ODOT/Federal Highway, etc.

Funding Sources/Alternatives

State Agency Sponsored Loans

- Ohio Public Works Commission

www.pc.ohio.gov

- Ohio Water Development Authority <u>Ohio Water Development Authority, Columbus, Ohio, USA (owda.org)</u>
- State Infrastructure Bank Loans
 - State Infrastructure Bank (SIB) | Ohio Department of Transportation

Joint Projects with other entities

- School District, neighboring municipality, third-party private entities, voluntary special assessments, other

Issue Debt

Combination of some or all of the above

5/22/2023

Debt Issuance & Capital Planning

Once the Project/Expenditure is Approved

- Steps to Prepare for the Bid Award
- Certification of Funds
- Steps Following the Award of the Bid
- Documentation to Obtain and Maintain
- Other Factors Financial Implications
- Project Close-out, Finalization

City Of Middleburg Heights, Ohio



Five-Year Capital Improvement Plan Last Updated 11/16/2022

City of Middleburg Heights, Ohio

FIVE YEAR CAPITAL IMPROVEMENT PLAN UPDATED 11/16/2022

Capital Planning

The City of Middleburg Heights recognizes the importance of planning. It recognizes that prudent financial planning considers the multi-year implications of financial decisions. The City strives to maintain a long-term focus on its financial planning and stay mindful of the long-term objectives of the City. As such, the City's Capital Improvement Plan (CIP) is a five-year plan that has been developed to provide the City's highest capital priorities with a sustainable financing schedule. The CIP was developed to meet the needs of Middleburg Heights residents that depend upon reliable services for public health, jobs from economic development and the lifestyle amenities that define the quality of life within our community.

The multi-year focus creates the continuity needed to focus resources on long term strategic objectives in a decision environment that is typically dominated by the short-term pressures of the annual budget cycle. This continuity does not mean that the CIP is rigid and non-adaptive. Rather, the CIP provides a platform to understand the choices and consequences of possible budgetary changes before making decisions – which is what sound fiscal management and strategic planning is all about.

Ultimately, the CIP ensures elected officials and citizens that major capital decisions are fully considered before they are approved and funded.

Capital Improvement Funding

Capital improvements can be financed with operating revenues, bond proceeds, reserves (fund balances), lease purchase agreements, special assessments, and state/federal grants. The use of operating revenue to finance capital projects or equipment is sometimes referred to as "pay-as-you-go" financing and has been Middleburg Heights' traditional method of addressing the community's capital improvement needs.

At present, the City does not possess sufficient financial resources to both adequately meet its capital needs and maintain current levels of municipal services. Strategically, the City must either: 1) defer selected capital improvements; 2) deplete operating reserves

(fund balances) to fund immediate capital needs; 3) increase revenues; 4) issue debt; or 5) a combination of two or more of the above. These options demonstrate the inter-relationship that exists between revenues, operating expenses, and capital needs.

Current Capital Funding Sources

The City's capital improvements are largely funded by a portion of the City's income tax collections. The first 1% of the tax rate is split 80% to the General Fund, 10% to the Capital Improvements Fund, and 10% to the Streets/Infrastructure Improvements Fund less the amount of the debt service on the 2013 Neighborhood Streets Bonds. In rough numbers, that translates to \$1,200,000 to the Capital Improvements Fund which is used for machinery, equipment, facilities and land improvements. Roughly \$800,000 is deposited in the Streets/Infrastructure Improvements Fund for street repairs and other right-of-way infrastructure improvements each year.

Additionally, the City has additional sources of revenue available that are used for capital improvements. Cuyahoga County collects front foot charges/assessments for the maintenance and repair of our sanitary sewers, storm sewers, and waterlines. The \$2.00/front foot assessment for sanitary sewers generates approximately \$1,000,000 per year. The \$0.50/front foot assessment for storm sewers generates approximately \$300,000 per year and the \$0.20/front foot assessment for waterlines generates approximately \$100,000 annually. The NEORSD community cost share provides approximately \$250,000 each year for storm water projects.

Additionally, the City will continue to aggressively pursue grant funding opportunities to continue to invest in our communities' most pressing needs. In the past several years, we have been successful in receiving substantial grants from Cuyahoga County, NOACA, NEORSD and OPWC to address the City's most pressing flooding concerns and roadway improvements.

Plan Format

The CIP has been developed based on the current funding sources available. As such, included you will find separate documents for the: 1) Capital Improvements Fund; 2) Streets/Infrastructure Improvements Fund; 3) Sanitary Sewer Fund maintained by Cuyahoga County; 4) Storm Sewer Fund (County); 5) Waterline Fund (County); and 6) NEORSD Community Cost share program.

The Five-Year Capital Improvement Plan should be viewed as a living document reflecting the dynamics of an ever-changing environment that requires constant monitoring and adjustment as priority needs change over time. This process needs to be revisited and updated annually with the understanding that the City's annual budget may need to be modified from time to time in reaction to the transforming needs of the community.

Capital Improvements Fund (#401)

Capital Improvement Plan Highlights

- The proposed plan includes \$2.2 million of capital improvements in 2023.
- We are recommending transferring \$500,000 and advancing an additional \$200,000 into the Capital Improvements Fund from the General Fund to facilitate increased investment in equipment and facility improvements, most notably the replacement of the Fire Station roof and demolition of the existing police station.
- In 2020, the City entered into a five-year capital lease (\$1,007,927) of a "Quint" firetruck to replace the current pumper truck and provide another aerial component to the fleet. Payments began in 2021.
- In 2022, the City advanced funds from the General Fund to the Capital Improvements Fund for the Baldwin Creek Trail and is likely going to need to advance \$235,000 as we await reimbursement from NEORSD for the purchase of the vac-all truck in 2022.
- Having just completed the skylight replacement project at the Community Center that began in 2020, the current plan begins to address needed roofing repairs/replacements at the Fire Station, Community Center, and Service Garage over the next five years.
- The plan document also includes over \$9.5 million of projects that the City may consider over the next five years if additional funding becomes available.

	City of	Middleburg Heights										
	Capital Imp	provements Fund (#40										
		roject Plan 2023-2027										
	AS	OF 11/16/2022										
Department	Description	SOURCE OF FUNDS	20	2023 Budget Plan		2024 Budget Plan	2025 Budget Plan	2026 Budget Plan	2027 Budget Plan		Cons	rojects to ider if Addtl. ng Available
Police	2023 Police Cruiser Replacement (Qty 3)	CASH	\$	165,000.00								3
Police	Motorola In-Car Video Systems (QTY 12)	CASH	\$	81,250.48	+							
Police	MDT replacement (Qty 11)- (conversion to Motorola CAD system)	CASH	\$	30,000.00	+							
Police	FingerPrint Machine Replacement	CASH	\$	22,000.00	+							
Police	Taser Replacement & Five Yr Maint agreement (Inc. from 12 to 30)	CASH	\$	22.800.00	Ś	22,800.00	\$ 22,800.00	\$ 22,800.00	\$ 2	2,800.00		
Police	2024 Police Cruiser Replacement (Qty 3)	CASH	Ŧ		Ś	165,000.00	+	+				
Police	2025 Police Cruiser Replacement (Qty 3)	CASH			Ť		\$ 165,000.00					
Police	2026 Police Cruiser Replacement (Qty 3)	CASH			+		¢ 100,000.00	\$ 165,000.00				
Police	2027 Police Cruiser Replacement (Qty 3)	CASH			+			+	\$ 16	5,000.00		
Police		Cron			+				Ŷ 10	5,000.00		
Police Total			\$	321,050.48	\$	187,800.00	\$ 187,800.00	\$ 187,800.00	\$ 18	7,800.00	\$	
Fire	Pumper/Ladder "Quint" and Rescue Tools (5 YEAR CAP. LEASE \$1,007,927	CASH	\$	211,610.95	\$	211,610.95	\$ 211,610.95	· · · · · · · · · · · · · · · · · · ·	V 10	.,	•	
Fire	Kitchen Drain Redirect	CASH	\$	24,500.00	ť	,010.00					<u> </u>	
Fire	Utility Body - Pickup Truck	CASH	\$	10,000.00	+			+	1		<u> </u>	
Fire	Ambulance	MED TRANS FUND	Ŷ	10,000.00	Ś	380,000.00						
Fire	Stryker Cot Pro XT (2)	CASH			Ś	50,000.00						
Fire	LifePak (3)	CASH			Ś	30,000.00	\$ 30,000.00	\$ 30,000.00				
Fire	Heavy Duty Pickup Truck	CASH			Ť	30,000.00	\$ 68,000.00	\$ 30,000.00				
Fire	Ladder Truck (replace platform)	CASH	-		+		\$ 00,000.00				\$	1,500,000.00
Fire	Paint Job Engine	CASH			+			+			Ś	200,000.00
Fire	Rear Garage Doors Replacement (QTY 3)	CASH	-		+						\$	80,000.00
Fire	Heavy Duty Pickup/Stake Body	CASH			-						\$	75,000.00
Fire	Garage Floor Bays	CASH			+						\$ \$	60,000.00
Fire	Trench Drain Installation	CASH			-						\$ \$	28,500.00
Fire	UV Glass Tint	CASH			+						\$ \$	11,600.00
Fire Total		CASIT	\$	246,110.95	\$	671,610.95	\$ 309,610.95	\$ 30,000.00	¢			1,955,100.00
File Iotai			Ŷ	240,110.95	- P	071,010.95	\$ 309,010.95	\$ 30,000.00	Ŷ		Ŷ	1,955,100.00
Recreation	Three (3) outdoor scoreboards - Baseball fields	CASH	\$	20,000.00	+						<u> </u>	
		CASH		-	+							
Recreation Recreation	Adaptive Playground Equipment	CASH	\$	17,000.00	-							
	Outdoor Pool Waterpark Features	CASH	\$	0,000.00	Ś	20,000.00						
Recreation-Programs	Hustler MDV (Utility Vehicle)	CASH	<u> </u>								<u> </u>	
Recreation	2024 Fitness Equipment Replacement				\$	15,000.00	ć 15.000.00		_			
Recreation	2025 Fitness Equipment Replacement	CASH CASH	<u> </u>		+		\$ 15,000.00				<u> </u>	
Recreation	2026 Fitness Equipment Replacement	CASH			-			\$ 15,000.00	¢ 1	F 000 00		
Recreation	2027 Fitness Equipment Replacement Script Middleburg Heights signage	CASH			-				\$ 1	5,000.00	Ś	F0 000 00
Recreation					-							50,000.00
Recreation	Change pool filter medium to glass Community Room (A) Presentation Video Board	CASH			+						\$	44,000.00
Recreation		CASH	<u> </u>		+		l	+			\$	25,000.00
Recreation	Indoor/Outdoor Movie Projection Screen	CASH	 		+				-		\$	20,000.00
Description Total				40.000.00		05 000 00	A	¢ 45.000.00		F 000 00		400.000.00
Recreation Total			\$	43,000.00	\$	35,000.00	\$ 15,000.00	\$ 15,000.00	\$ 1	5,000.00	\$	139,000.00
				75 000 0-	\vdash				_		I	
Service	2023 Pick-up Truck Replacement	CASH	\$	75,000.00	+				_		 	
Service	2 Dump Bodies	CASH	\$	60,000.00	1						L	
Service	Zero-Turn Lawnmower	CASH	\$	20,000.00							<u> </u>	
Service	Salt Truck Replacement	CASH	 		\$	195,000.00		\$ 195,000.00	_			
Service	Stump Grinding Machine	CASH	L					\$ 70,000.00				
Service	Chipper	CASH					\$ 52,000.00					
Service	2024 Pick-up Truck Replacement	CASH	<u> </u>		\$	65,000.00	ļ	1				
Service	Sign Shop Table Plotter	CASH			\$	17,000.00						

	City of	Middleburg Heights						
		provements Fund (#40	1)					
	Capital P	roject Plan 2023-2027						
	AS	OF 11/16/2022						
			2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget	Projects to Consider if Addtl.
Department	Description	SOURCE OF FUNDS	Plan	Plan	Plan	Plan	Plan	Funding Available
Service	2025 Pick-up Truck Replacement	CASH			\$ 65,000.00			
Service	Tire Changing Machine	CASH		-	\$ 35,000.00	¢		
Service	2026 Pick-up Truck Replacement	CASH CASH				\$ 65,000.00	ć cr. 000.00	
Service	2027 Pick-up Truck Replacement	CASH					\$ 65,000.00	ć 100.000.00
Service	Leaf Collection Body - Hook-lift installation for Salt Truck replacements Floor Scrubber	CASH						\$ 100,000.00 \$ 50,000.00
Service		CASH						
Service	Roller and Trailer Tire Balancing Machine	CASH						\$ 30,000.00 \$ 21,000.00
Service		CASH						\$ 21,000.00
Service Total			\$ 155,000.00	\$ 277,000.00	\$ 152,000.00	\$ 330,000.00	\$ 65,000.00	\$ 201,000.00
Service Total			\$ 155,000.00	\$ 211,000.00	\$ 152,000.00	\$ 330,000.00	\$ 05,000.00	ş 201,000.00
Fac. Maint - Fire Station	Flat & Shingle Roofs	CASH	\$ 375,000.00					
Fac. Maint - Campus Improvements	Police Station Demolition	CASH	\$ 200,000.00					
Fac. Maint - City Hall	2023 Parking Lot Repairs - Municipal Campus	CASH	\$ 50,000.00					
Fac. Maint - Campus Improvements	Fiber/Conduit Directional Boring	CASH	\$ 50,000.00					
Fac. Maint-Service Center	Truck Wash Chassis Bath/Controls	CASH	\$ 40,000.00					
Fac. Maint-Service Center	Fuel System Controller/Software	CASH	\$ 30,000.00					
Fac. Maint - City Hall	Gazebo Lighting/Painting	CASH	\$ 24,000.00					
Fac. Maint - Service Garage	NO/CO Sensor Replacement	CASH	\$ 14,000.00					
Fac. Maint-Community Center	Replace Indoor Vortex Pump	CASH	\$ 10,000.00					
Fac. Maint-Community Center	Natatorium Roof Replacement - Both Elevations	CASH	\$ 10,000.00		\$ 600,000.00			
Fac. Maint - City Hall	2024 Parking Lot Repairs - Municipal Campus	CASH		\$ 50,000.00	\$ 000,000.00			
Fac. Maint-Community Center	Multipurpose Gym Floor (Rubber)	CASH		\$ 49,000.00				
Fac. Maint - City Hall	HVAC Replacement - Council Office	CASH		\$ 10,000.00				
Fac. Maint-Community Center	Community Room Blinds Replacement	CASH		\$ 10,000.00				
Fac. Maint-Community Center	Recoat Community Center Flat Roof	CASH		÷ 10,000.00		\$ 440,000.00		
Fac. Maint - City Hall	2025 Parking Lot Repairs - Municipal Campus	CASH			\$ 50,000.00	÷ ++0,000.00		
Fac. Maint - City Hall	HVAC Replacement - Finance Office	CASH			\$ 10,000.00			
Fac. Maint - Service Garage	Recoat Service Center Flat Roof	CASH			\$ 10,000.00		\$ 516,870.00	
Fac. Maint - City Hall	2026 Parking Lot Repairs - Municipal Campus	CASH				\$ 50,000.00	\$ 510,070.00	
Fac. Maint - Fire Station	HVAC Replacement - Fire Watch Office	CASH				\$ 10,000.00		
Fac. Maint - City Hall	2027 Parking Lot Repairs - Municipal Campus	CASH				¢ 10,000,000	\$ 50,000.00	
Fac. Maint-Community Center	Community Center Enhancements (flooring, wallcoverings, seating, etc)	CASH					+	Varies on scope
Fac. Maint-Community Center	Senior Center Addition	DEBT ISSUANCE						\$ 4,000,000.00
Fac. Maint-Middleburg Commons	Property Acquisition/Demolition and Development	CASH						\$ 2,000,000.00
Fac. Maint - City Hall	City Hall Lobby/General Facility Upgrades	CASH						\$ 250,000.00
Fac. Maint - City Hall	Connect City Hall to Generator	CASH						\$ 242,000.00
Fac. Maint - Campus Improvements	Amphitheater Improvements	CASH						\$ 150,000.00
Fac. Maint-Service Center	Brick Work (Tuck Pointing)	CASH						\$ 120,000.00
Fac. Maint-Service Center	Dumpster Enclosure	CASH		1				\$ 80,000.00
Fac. Maint-Community Center	Community Room Wallcovering Updates	CASH						\$ 75,000.00
Fac. Maint-Community Center	Community Room Window Treatment Updates	CASH		1	1			\$ 60,000.00
Fac. Maint - City Hall	Window Replacement	NOPEC GRANTS		1	1			\$ 50,000.00
Fac. Maint - City Hall	Wash and Seal Masonry	CASH		1				\$ 30,000.00
Fac. Maint-Community Center	Front Doors	CASH		1	1			\$ 30,000.00
Fac. Maint - Campus Improvements	Pavilion Waterline Extension (Guesstimate)	CASH		1				\$ 25,000.00
Fac. Maint-Community Center	Classroom Tile Replacement	CASH						\$ 23,000.00
Fac. Maint-Community Center	Steam Room wall replacement	CASH		1				\$ 21,000.00
Fac. Maint-Service Center	Clean Burn - Waste Oil furnace	CASH						\$ 20,000.00
Fac. Maint-Service Center	Sprinkler Heads (above Garage Doors)	CASH	1	1	1			\$ 7,000.00
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	Capital Imp Capital Pr	Middleburg Heights rovements Fund (#40 oject Plan 2023-2027 OF 11/16/2022																		
Department	Description	SOURCE OF FUNDS	2023 Budget Plan												2025 Budget Plan	2026 Budget Plan	2	027 Budget Plan	Consi Fundii	ojects to der if Addtl. ng Available
Fac. Maint - City Hall	Automated Doors - City Hall entrance	CASH									\$	6,000.00								
Fac. Maint-Service Center	New Dumpster Entrance at Service Center (obtaining quotes)	CASH									\$	-								
Fac. Maint - Service Garage	Wash and Seal Masonry	CASH									\$	-								
Service - Fac. Maint Total			\$	793,000.00	\$ 1'	19,000.00	\$ 660,000.00	\$ 500,000.00	\$	566,870.00	\$ 1	,189,000.00								
General Gov't	City-wide Camera System updates	CASH	ć	15,000.00					_											
General Gov't	2023 Computer System Upgrades - (PCs, wireless expansion, network upgr	CASH	\$	25,000.00					_											
General Gov't	Finance - Accounting Software	CASH	\$	55,000.00	Ś	55,000.00			_											
General Gov't	2023 Tree Planting & Replacement- Spring & Fall	CASH	\$	18.000.00	Ŷ	55,000.00														
General Gov't	2024 Tree Planting & Replacement- Spring & Fall	CASH	Ŷ	10,000.000	Ś	18,000.00														
General Gov't	2025 Tree Planting & Replacement- Spring & Fall	CASH			Ŧ		\$ 18,000.00													
General Gov't	2026 Tree Planting & Replacement- Spring & Fall	CASH					+	\$ 18,000.00												
General Gov't	2027 Tree Planting & Replacement- Spring & Fall	CASH							\$	18,000.00										
General Gov't	Council Chambers Sound System/Audio Recording Upgrades	CASH							-	,	\$	25,000.00								
General Gov't	Advance Repayment Reimb. (Baldwin Creek Trail)	CASH	\$	323,915.00																
General Gov't	Advance Repayment Reimb. (Vac Truck Reimb NEORSD)	CASH	\$	235,000.00																
General Gov't	Advance Repayment	CASH			\$ 2	00,000.00														
General Gov't Total			\$	671,915.00	\$ 27	73,000.00	\$ 18,000.00	\$ 18,000.00) \$	18,000.00	\$	25,000.00								
Grand Total			\$ 2,	230,076.43	\$ 1,5	63,410.95	\$ 1,342,410.95	\$ 1,080,800.00) \$	852,670.00	\$ 9	,509,100.00								
				,																
Beginning Fund Balance (Actual)			\$	100,815.00	\$ 1	13,738.57	\$ 204,202.62	\$ 173,132.92	\$	442,264.41	\$	979,273.84								
Income Tax Funding			\$ 1,	,213,000.00	\$ 1,24	48,875.00	\$ 1,286,341.25	\$ 1,324,931.49	\$	1,364,679.43										
Other Revenue Sources - Misc. Revenue			\$	25,000.00	\$	25,000.00	\$ 25,000.00	\$ 25,000.00	\$	25,000.00										
Other Sources: FEMA Grant Fund																				
Other Sources: Medical Transport Fund					\$ 3	80,000.00														
Bond/Note Proceeds					\$	-														
Grant Funding				305,000.00																
Advance In from General Fund				200,000.00																
Transfer In from General Fund			\$	500,000.00																
Ending Fund Balance (Est.)			\$	113,738.57	\$	204,202.62	\$ 173,132.92	\$ 442,264.4	1\$	979,273.84	\$	(8,529,826.16)								

Streets/Infrastructure Improvements Fund (#402) Capital Improvement Plan Highlights

- In addition to the income tax funding, the current plan assumes the use of \$500,000 of fund balance reserves to expand our street improvement program in 2023 beyond the cash funding available for a total of \$1.3M.
- In 2022, the City entered into \$4.2M worth of street improvement project contracts. Of that \$4.2M, approximately \$2.3M will be completed in 2023 as we repair Cherokee Trail, Claremont Avenue, Fairweather, and complete the asphalt work on James and Winona. This work will be in addition to the \$1.3M proposed for 2023.
- The proposed plan calls for improvements along Smith Road to create a downtown "Main Street" concept for the revitalization of the Southland Shopping District. \$500,000 is being proposed to be appropriated for development of the final engineering plans & specs from the Streets/Infrastructure Improvements fund. The initial estimates for the project were \$6.4M, of which \$2,477,327 is being proposed to be appropriated from the Local Fiscal Recovery Fund as those ARPA grant funds were received from the Federal government and Cuyahoga County. The City also received a \$280,000 TLCI grant from NOACA for this project. Engineering is currently underway to further define the scope of the project.
- We are recommending transferring \$350,000 into the Streets/Infrastructure Improvements Fund from the General Fund to facilitate the replacement of traffic poles on Bagley Road from City Hall to Craigmere.
- The City is currently undertaking many sewer related projects that are being funded by the NEORSD and the OPWC. Timing of these projects and grant reimbursements will cause the City to have to advance funds from the General Fund as we await reimbursement from the grantors. It is probable that future advances will have to occur pending the timing of these reimbursements.

		City of Midd Streets/Infrastructure Im	prov	ements Fur		(#402)						
		Capital Project										
		AS OF 1										cts to Consider if Addtl. Funding
Department	Description	SOURCE OF FUNDS	202	23 Budget Plan	20)24 Budget Plan	202	5 Budget Plan	2026 Budget Plan	2027 Budget Plan		Available
General Gov't	Indian Creek Sanitary Relief Sewer	CASH										
General Gov't	2023 Street Program	CASH	\$	1,300,000.00								
General Gov't	Southland Redevelopment Final Engineering Plans/Specs	CASH	\$	500,000.00							-	
General Gov't	Traffic Pole Replacements - City Hall to Craigmere	CASH	\$	325,000.00								
General Gov't	2023 Eastland Road OPWC Repayment	CASH	\$	41,000.00	<u> </u>		<u> </u>					
General Gov't	2023 Sidewalk Program	CASH	\$	45,000.00							_	
General Gov't	2024 Street Program	CASH			\$	800,000.00						
General Gov't	2024 Eastland Road OPWC Repayment	CASH			Ş	41,000.00						
General Gov't	2024 Sidewalk Program	CASH			\$	45,000.00						
General Gov't	2025 Street Program	CASH					\$	850,000.00			_	
General Gov't	2025 Eastland Road OPWC Repayment	CASH					\$	41,000.00			_	
General Gov't	2025 Sidewalk Program	CASH					\$	45,000.00				
General Gov't	2026 Street Program	CASH							\$ 875,000.00			
General Gov't	2026 Eastland Road OPWC Repayment	CASH							\$ 41,000.00			
General Gov't	2026 Sidewalk Program	CASH							\$ 45,000.00			
General Gov't	2027 Street Program	CASH								\$ 925,000.00		
General Gov't	2027 Eastland Road OPWC Repayment	CASH								\$ 41,000.00		
General Gov't	2027 Sidewalk Program	CASH								\$ 45,000.00		
General Gov't	Southland Redevelopment - "Main Street" Concept	VARIOUS									\$	6,400,000.00
General Gov't	Smith Road Resurfacing	COUNTY?									\$	900,000.00
General Gov't	First Ave Berea to Eastland	ASSESSMENT?									\$	3,000,000.00
General Gov't	Traffic Signals - Pearl Road Corridor	NOACA?									Cost	/Scope Unknown
General Gov't	Sidewalks - Areas without current sidewalks	Prop. Owner/Assess									Varie	s based on scope
Grand Total			\$	2,211,000.00	\$	886,000.00	\$	936,000.00	\$ 961,000.00	\$ 1,011,000.00	\$	10,300,000.00
Beginning Fund Baland	ce (Actual)		\$	1,038,000.00	\$	34,000.00	\$	41,175.00	\$ 35,616.25	\$ 43,447.74	\$	43,447.74
Income Tax Funding			\$	837,000.00	\$	873,175.00	\$	910,441.25	\$ 948,831.49	\$ 988,579.43		
Other Revenue Source	s - Misc. Revenue		\$	20,000.00	\$	20,000.00	\$	20,000.00	\$ 20,000.00	\$ 20,000.00		
Other Revenue Source	s - Grants											
Other Sources: Reimbu	irsements											
Bond/Note Proceeds					1						1	
Advance in From Gene	eral Fund				1							
Transfer In from Gene			Ś	350.000.00	1		+					
Ending Fund Balance (\$	34,000.00	Ļ	41,175.00	<u>ــــــــــــــــــــــــــــــــــــ</u>	35,616.25	\$ 43,447.74	\$ 41,027.17	Ļ	(10,256,552.26)

Sanitary Sewer Fund (County)

Capital Improvement Plan Highlights

- Each year the \$2.00 per front foot assessment generates approximately \$1,000,000 annually to be used for the maintenance and repair of the City's sanitary sewer lines.
- Each year, based on its contract with the City of Middleburg Heights, the County Sanitary Engineer's office performs routine maintenance, cleaning, and inspection services for the City. That cost estimate varies based on annual activity; however based on past history those costs are estimated at \$875,000 each year.
- The City is currently working with Mackay Engineering and R2O to identify solutions to the Indian Creek/Gerald Sanitary relief sewer projects. Grant and loan funding was provided by NEORSD and OPWC amounting to approximately \$3.7M. Current estimates for the whole project are in the \$10.5M range.

QUESTIONS

- Thank you to Jason Stewart, Finance Director, City of Middleburg Heights, and to the City of Avon

Topics

- Kinds of Debt & Debt Limitations
- Borrowing
- Federal Tax Law Matters
- Federal Securities Law Matters

Kinds of Debt and Debt Limitations

Kinds of Debt and Debt Limitations

•State law dictates the rules for most issuers:

- Limits kind and amount of debt that can be issued
- Places fiscal responsibility on its officials
- Protects taxpayers from unlimited debt burden
- Legislation required to authorize borrowing
- Legislation must authorize security, source of repayment and other terms

Kinds of Debt

- General Obligations
 - Bonds vs. Notes
- Lease-Purchase Financing
- Revenue (Special) Obligations

General Obligations – Security and Sources

- <u>Secured</u> by Property Taxes (and all other resources of issuer)
 - Voted
 - Unvoted
- Full Faith and Credit
 - <u>Repayment</u> may come from Other Available Revenues
 - Municipal Income Tax
 - Special Assessments for the Project Financed
 - Other Nontax Revenues (Enterprise Funds)
 - Exceptions
 - Taxes Limited to Particular Purpose (e.g., motor vehicle fuel and license taxes)
 - Pledged Utility Revenues
 - Special assessments for specific projects

Statutory Limitations – GO Debt

Direct Debt Limitation

- Based on the Assessed Value of all property in the community as listed and assessed for taxation
 - Unvoted GO debt may not exceed 51/2%
 - Voted AND unvoted GO debt may not exceed 101/2%

Exempt Debt - Debt not included in the direct debt limit calculation

- Self-supporting GO debt, i.e. revenues from the facilities financed are sufficient to pay applicable operating and maintenance expenses and related debt service and other requirements
- Municipal Income Tax Covenant
- Utility revenue and other non-general obligation debt
- Bonds issued in anticipation of the collection of special assessments
- Note issues in anticipation of the collection of current revenues or in anticipation of the proceeds of a specific tax levy
- Notes issued for certain emergency purposes
- Bonds issued to pay final judgments

General Financial Statement

GENERAL FINANCIAL STATEMENT City of _____, Ohio \$9,000,000 Capital Facilities Bonds, Series 2023

The 202 (a)	fiscal officer of the City of, Ohio, certify that the following statement tax valuation of the City (as shown by the tax lists and duplicates for the year 2, which are the latest at this date) Total principal amount of all outstanding bonds and notes of the City, including the captioned issue(s) and excluding any bonds or notes to be retired		
202 (a)	 which are the latest at this date)	. s	1,327,270,230
	Total principal amount of all outstanding bonds and notes of the City, including the captioned issue(s) and excluding any bonds or notes to be retired.		
(b)	by the captioned issue(s)(*)		60,285,000
	Of that total, the total of voted and unvoted general obligation bonds and notes		42,675,000
Prin	cipal amount of exempt securities included in item 2(a):		
(a)			
(b)			
	Category		
	Total S -0-		
(c)	Securities issued to pay final judgments and settlements		
(d)	Revenue, mortgage revenue and excess condemnation bonds issued under §§ 3, 10 or 12 of Article XVIII of the		
	Constitution (R.C. 133.05(B)(4))		
(e)	Notes issued in anticipation of the collection of current revenues under R.C. 133.10		
(f)	Notes issued in anticipation of voted tax levy proceeds under R.C. Chapter 5705S -0-		
(g)	Securities to extent authorizing legislation contains covenants to appropriate, levy and collect municipal income taxes (R.C. 133.05(B)(7))		
(h)	Urban renewal tax increment bonds issued under R.C. Chapter 725 \$ -0-		
0	Voted bonds and notes issued for urban redevelopment that do not exceed 2% of tax valuation (R.C. 133.05(B)(6))		
(i)	Securities evidencing loans from State Capital Improvements Fund (R.C. Chapter 164)		
(k)	Federal aid securities (R.C. Chapter 139) \$ -0-		
(1)	Voting machine or vote tabulating equipment notes (R.C. 3506.03, 3506.02)		
(m)			
Fet	d of item(s) 3(a) to (m)		52,054,219
		s	8,230,781
Deb	t leeway (**) within 10-1/2% limitation [5 minus 6]		131,132,593
5-1/	2% of tax valuation	. 5	72,999,862
			8,230,781
			64,769,081
	challing the amount of bands and passa amount and in the City and excluding the amount of		
	(c) (d) (e) (f) (g) (h) (i) (ii) (ii) (iii)) (iii) (iii) (iii)) (iii) (iii)) ((iii))(((iii)))(((iii)))(((iii))(((ii)))(((ii)))(((ii)))(((ii))(((ii)))((b) General obligation bonds and notes that are "self-supporting securities" as defined in R.C. 133.01 (LL): <u>Category</u> S (c) Securities issued to pay final judgments and settlements S (d) Revenue, mortgage revenue and excess condemnation bonds issued under §§ 3, 10 or 12 of Article XVIII of the Constitution (R.C. 133.05(B)(4)) S (e) Notes issued in anticipation of the collection of current revenues under R.C. 133.10 S (f) Notes issued in anticipation of voted tax levy proceeds under R.C. Chapter 5705 S (g) Securities to extent authorizing legislation contains covenants to appropriate, levy and collect municipal income taxes (R.C. 133.05(B)(7)) S 26,725,900 (h) Urban renewal tax increment bonds issued under R.C. Chapter 725 S -0- (ii) Voted bonds and notes issued for urban redevelopment that do not exceed 2% of tax valuation (R.C. 133.05(B)(6)) S -0- (iii) Scurities evidencing loans from State Capital Improvements Fund (R.C. Chapter 164) S -0- (iii) Scurities (R.C. Chapter 118) S -0- (iii) Voted bonds and notes issued for urban redevelopment that do not exceed 2% of tax valuation (R.C. 133.05(B)(6)) S -0- (iii) Voted bonds and notes issued for urban redevelopment that	(b) General obligation bonds and notes that are "self-supporting securities" as defined in R.C. 133.01 (LL): Category S (c) Securities issued to pay final judgments and settlements S (d) Revenue, mortgage revenue and excess condemnation bonds issued under §§ 5, 10 or 12 of Article XVIII of the Constitution (R.C. 133.05(B)(4)). S (e) Notes issued in anticipation of the collection of current revenues under R.C. 133.10 S (f) Notes issued in anticipation of voted tax levy proceeds under R.C. Chapter 5705 S (g) Securities to extent authorizing legislation contains covenants to appropriate, levy and collect municipal income taxes S (if) Notes issued for urban redevelopment that do not exceed 2% of tax valuation (R.C. 133.05(B)(6)) S S (ii) Voted bonds and notes issued for urban redevelopment that do not exceed 2% of tax valuation (R.C. 133.05(B)(6)) S -0- (i) Voted modies or vote tabulating equipment notes S -0- (iii) Voting machine or vote tabulating equipment notes S -0- (iv) Voting machine or vote tabulating equipment notes S -0- (iii) Voting machine or vote tabulating equipment notes S -0- (iv)

(**) Debt keway determined without considering memory in the Bond Retrament Fund.

Debt Limitations

- Indirect Debt Limit ("ten-mill" limitation)
 - Applies to Debt Service on Unvoted General Obligation Debt
 - Constitution and Ohio Revised Code 5705.02
 - Municipal charter limitation may be different
 - Article XII, Section 11
 - "No bonded indebtedness of the state, or any political subdivision thereof, shall be incurred or renewed unless, in the legislation under which such indebtedness is incurred or renewed, provision is made for levying and collecting annually by taxation in amounts sufficient to pay the interest on said bonds, and to provide a sinking fund for their final redemption at maturity."
 - Article XII, Section 2
 - "No property, taxed according to value, shall be so taxed in excess of 1% of its true value in money for all state and local purposes, but laws may be passed authorizing additional taxes to be levied outside of such limitation either when approved by at least a majority of the electors of the taxing district voting on that proposition, or when provided for by the charter of a municipal corporation."

Supplemental Financial Statement

Squire Patton Boggs (US) LLP CLEVELAND * COLUMBUS * CINCINNATI

SUPPLEMENTAL FINANCIAL STATEMENT (UNVOTED GENERAL OBLIGATION BONDS AND NOTES)

I, County Auditor of ______ County, Ohio, certify in connection with the following proposed issue of Bonds: Issuer: City of ______, Ohio \$9,000,000 Capital Facilities Bonds, Series 2023, Dated May 2, 2023, that:

The tax rates required to produce an amount to pay the highest annual aggregate debt charges for the proposed issue and all other general obligation securities of the Issuer and the subdivisions overlapping it, which are payable from taxes subject to the 10-mill limitation of Article XII, Section 2, Ohio Constitution and applicable Revised Code provisions, based on the facts set forth below and assuming that all levies were to be made for those debt charges on the general tax list and duplicate, are as follows:

Overlapping Subdivisions	Tax Valuation	Bonds and Notes Outstanding Payable from Taxes Inside 10-Mill Limitation	Present Principal Amount	Debt charges for cale <u>they will be the</u> For Principal		Required Tax Rate in Mills for Two
		13				Previous Columns
County	\$37,609,105,840	(a) Special Assessment Bonds and Notes.(b) All other Bonds and Notes.	None \$176,141,035	None \$17,783,011	None \$2,726,957	0.0000 0.5453
City of	\$1,327,270,230	(a) Special Assessment Bonds and Notes.(b) All other Bonds and Notes.	None \$33,675,000	None \$1,900,000	None \$721,065	0.0000
City School District	\$3,544,954,560	Bonds and Notes.	\$1,334,001	None	None	0.0000
Township (if any)	None	Bonds and Notes.	None	None	None	0.0000
Joint Vocational SD	\$39,595,199,910	Bonds and Notes.	\$56,905,000	\$5,540,000	\$943,238	0.1638
		Proposed Issue	\$9,000,000	\$260,000	\$322,383	0.4388
					Total	0.1637

INSTRUCTIONS:

1. When Notes constitute the proposed issue or are otherwise included above, use the estimated debt charges for the Bonds anticipated by the Notes as described in the note legislation.

 If the Issuer is a county, the information should relate to the county, and the combination of overlapping city/village, school district, township and other political subdivisions requiring the highest millage for debt charges inside the 10-mill limitation.

- 3. Do not include voted bonds or notes.
- 4. Fill in all blanks, using the word "NONE" where applicable.

5. Include all required millage for debt charges even though no taxes are currently levied for those debt charges.

Lease-Purchase Financing

- Types of Assets Financed: Equipment and Buildings
- If Structured Properly, Not "Debt" for State Law Purposes
- Subject to Annual Appropriation
- Can help issuers stay within debt limits
- Less Secure, Higher Borrowing Cost
- No New Tax Levied as Source of Payment
- Publicly marketed as COPs

Revenue Obligations

- •Revenue (or Special) Obligations
 - Examples
 - Utilities
 - Income Tax or Sales Tax Supported Obligations
 - Sold without voter approval
 - Not subject to debt limitations
 - Trust Indenture
 - Coverage Covenants
 - Debt Service Reserve Fund
 - Additional Bonds Test

Borrowing

Ohio Municipal Advisory Council

http://www.ohiomac.com/Rates/GuideToMunici palDebt.pd

Borrowing - Participants

<u>Underwriter</u> Investment Bankers

- > Perform due diligence on disclosure
- Provide financing plan assistance
- Provide rating agency & bond insurer preparation
- Provide investment advice
- **Sales Force** Market the bonds

<u>Issuer</u>

- Approve bond legislation
- > Assist with preparation of disclosure data
- Develop financing plan
- Make rating & insurance presentations (if applicable)
- ➢ Make bond payments

Municipal Advisor

- Provide financing plan assistance
- Provide rating agency & bond insurer preparation
- Provide investment advice

Bond Counsel (Legal Opinion

- Prepare bond resolution/ordinance
- Provide Official Statement/disclosure preparation assistance
- Prepare various deal related legal documents
- Provide legal opinion to investors

Borrowing - Participants

Rating Agencies/ Credit Enhancement

- Review credit worthiness of the Issuer
- > Rating agencies issue bond rating

Trustee/Registrar (P&I Payments)

- ➢ Authenticate bonds
- Receive interest and principal payments from Issuer
- Make interest and principal payments to investors

Investors

- > Purchase bonds
- Receive interest and principal payments from paying agent

MSRB Education Center

https://www.msrb.org/Education-Center?f%5B0%5D=ed_center_format%3Aremote_video

Bond Anticipation Notes (BANs)

General obligation bond anticipation notes, commonly referred to as "BANs", are securities issued in anticipation of the issuance of bonds and authorized as set forth in Section 133.22 ORC. Security for the payment of the debt charges on such BANs when due includes undertakings of the taxing authority of the subdivision to (i) apply the proceeds from the sale of the anticipated bonds or any renewal BANs, and any remaining proceeds of the initial BANs, to the payment of debt charges on the BANs and (ii) levy annually the same voted or unvoted tax that would have been levied if the anticipated bonds had been issued without the prior issuance of the BANs. BANs, except special assessment BANs (described below) issued under Section 133.17 ORC, may be renewed from time to time until: (i) the expiration of two hundred forty months from the date of original issue or, if a shorter period, the maximum maturity of the anticipated bonds plus five years; or (ii) the disposition of any litigation that prevents the sale or issuance of the anticipated bonds. When BANs, other than special assessment BANs, are outstanding later than the last day of December of the fifth year following the date of issuance of the original issue, (i) the period in excess of those five years must be deducted from the last permitted maturity of the bonds in anticipation of which the BANs are issued, and (ii) a portion of the principal of the BANs must be paid in annual amounts equal to the principal amount that would have been paid annually if bonds had been issued after the fifth year.

Borrowing – Components of BANs

•Components of BANs (Municipal Securities)

- Principal or Par Amount
- Maturity Date (typically one year or less)
- Interest Payment Date (Annual)
- Interest Rate (Fixed Rate)
- Redemption Provisions

Borrowing – Components of Bonds

•Components of Bonds (Municipal Securities)

- Principal or Par Amount
- Maturity Date
- Interest Payment Date (Semi-annual)
- Interest Rate (Fixed Rate)
- Redemption Provisions

Borrowing – Maximum Maturity

https://codes.ohio.gov/ohio-revised-code/section-133.20

- ABC Municipality is issuing \$10M for a new Police Facility
 - Cost Detail:
 - Land acquisition = \$1,000,000
 - Furniture, Fixtures and Equipment = \$1,000,000
 - Construction of building = \$8,000,000
 - Maximum Maturity Per ORC 133.20
 - Land = 30 years
 - F,F&E = 10 years
 - Buildings = 30 years
 - Calculation is as follows (Weighted Avg. Method):
 - Land = 1/10 = 10% 10% x 30 yrs.
 - FF&E = \$1/\$10 = 10% 10% x 10 yrs.
 - Building = \$8/\$10 = 80% 80% x 30 yrs.
 - Maximum Maturity of the Issuance approx. 27 yrs.

Tax Exemption Matters

- Exclusion of Interest from Gross Income for Federal Income Tax Purposes
- State Income Tax Exemption
- Qualified Tax-Exempt Obligations (QTEOs)
 - \$10,000,000 per year and per issue limitation
 - Attractiveness to Financial Institutions
 - Deductibility of Interest Carrying Cost (in addition to exclusion of interest from gross income)
- Reimbursement of Prior Expenditures
 - Declaration of Official Intent

- Arbitrage and Rebate Matters
 - Arbitrage is basically investing the proceeds of tax-exempt securities at a taxable yield in excess of the yield on those securities
 - Municipalities, townships, counties, etc. are not taxpayers
 - If issuer earns arbitrage, and cannot fit within an exception to the arbitrage rule, the bonds are "arbitrage bonds". Arbitrage bonds are taxable
 - Requirement to "rebate" positive arbitrage to federal treasury, subject to exceptions
 - Negative arbitrage environment for many years changing
 - Exceptions exist to yield restriction and rebate rules mainly relating to how quickly bond proceeds are spent
 - Don't issue bonds too early, and don't issue too much

• New Money Issues

Refundings

- Purposes: Reducing Interest Expense, Restructuring, and Removing Restrictive Covenant
- Refund *ing* Bonds v. Refund *ed* Bonds
- Kinds of Refundings:
 - Current Refundings
 - Pay off Refunded Bonds within 90 days of issuance of Refunding Bonds
 - Advance Refundings
 - Refunding securities issued more than 90 days in advance of payment of Refunded Bonds
 - Eliminated (sort of) in 2017

Federal Securities Law Matters

Federal Securities Law Matters

- Tower Amendment
- Exception: Anti-Fraud Provisions (SEC Rule 10b-5)
- SEC Rule 15c2-12 (Primary Offering Disclosure)
- SEC Rule 15c2-12 (Continuing Disclosure)
 - Annual Information Filing
 - Audited Financial Statements
 - Material Event Notices
 - Electronic Municipal Market Access (EMMA)
- SEC's Municipal Continuing Disclosure Cooperation (MCDC) Initiative

Theory of Public Finance of Capital Projects

Why do communities issue debt?

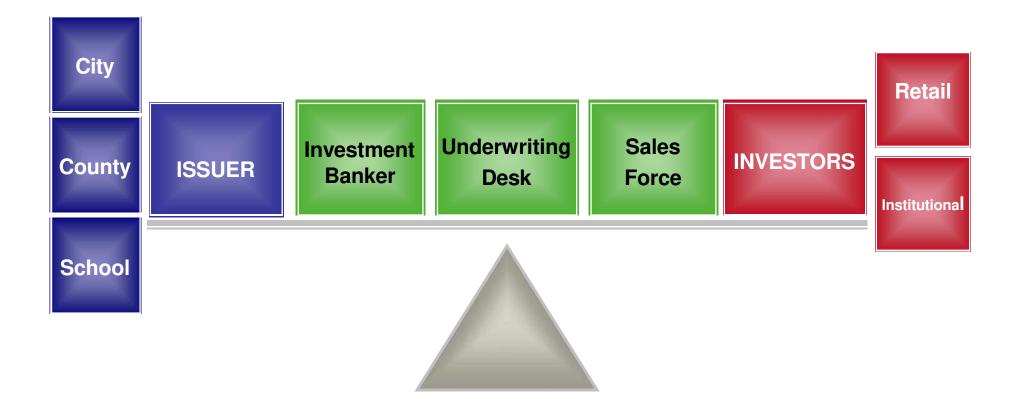
- Costs are too high for cash payment of a project
- ✓ Spread the cost of a project over current and future generations
 - Benefits are spread over several generations - costs should be as well
 - One generation should not subsidize the next
- ✓ Payments should equate to useful life of assets or less
- Example of public purposes for which debt is issued:
 - Building schools both for K-12 and higher educational institutions
 - Public Purpose Improvements (Building, Recreation, Sewer, Energy Conservation, etc)
 - Road projects new roads and highways as well as maintenance on existing roads
 - Public power projects
 - Sewer & Water and other utilities
 - Economic Development

Method of Sale – Disclosure Requirements

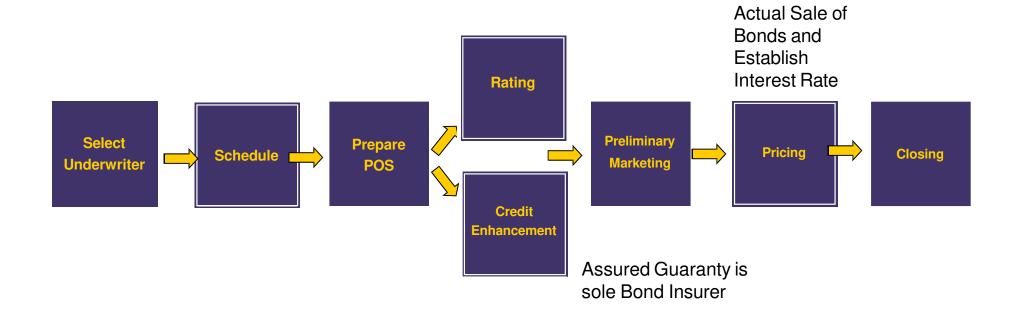
Public Offering

- Negotiated sale Requires POS and rating/credit enhancement
- Competitive sale Requires POS and rating/credit enhancement
- Limited Offering
 - Negotiated sale POS or Limited Offering Memorandum
- Private Placement
 - Negotiated sale to sophisticated institutional buyer –requires data and info similar to POS; not as comprehensive
- Bank Purchase
 - Form of private placement Negotiated sale to sophisticated institutional buyer –requires data and info similar to POS; not as comprehensive

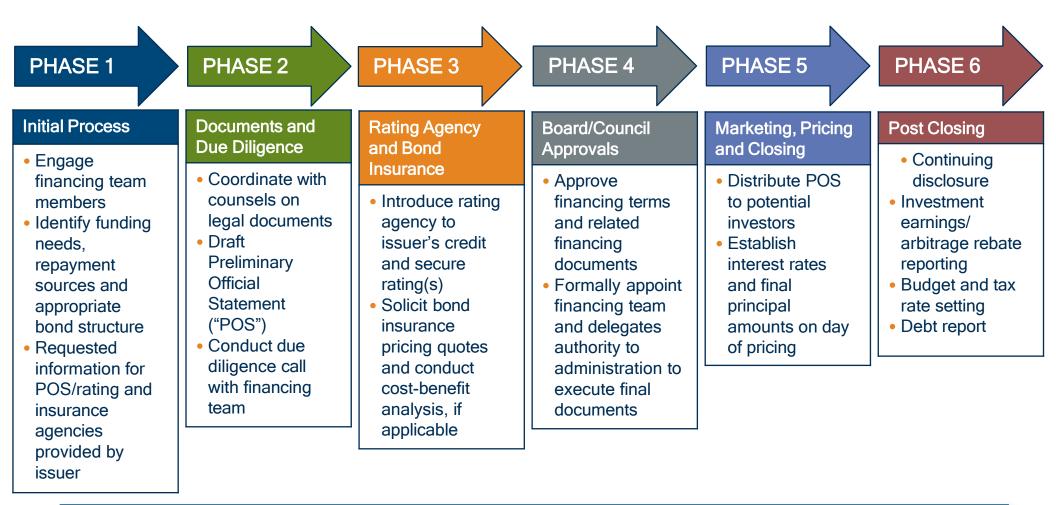
Underwriting Firm's Role in Debt Financing



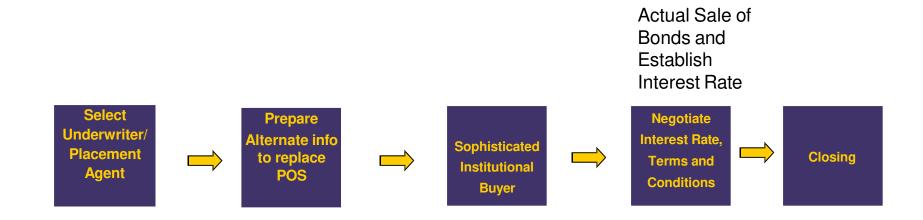
Summary of Deal Flow-Negotiated Sale



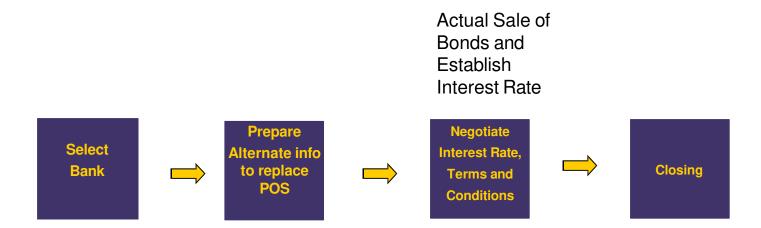
Timeline of Bond Sale



The actual timeline for conducting a bond sale depends upon the Issuers objectives, the ability to coordinate other required efforts and market forces Summary of Deal Flow-Limited Offering/Private Placement



Summary of Deal Flow-Bank Purchase



Determining the Optimal Structure



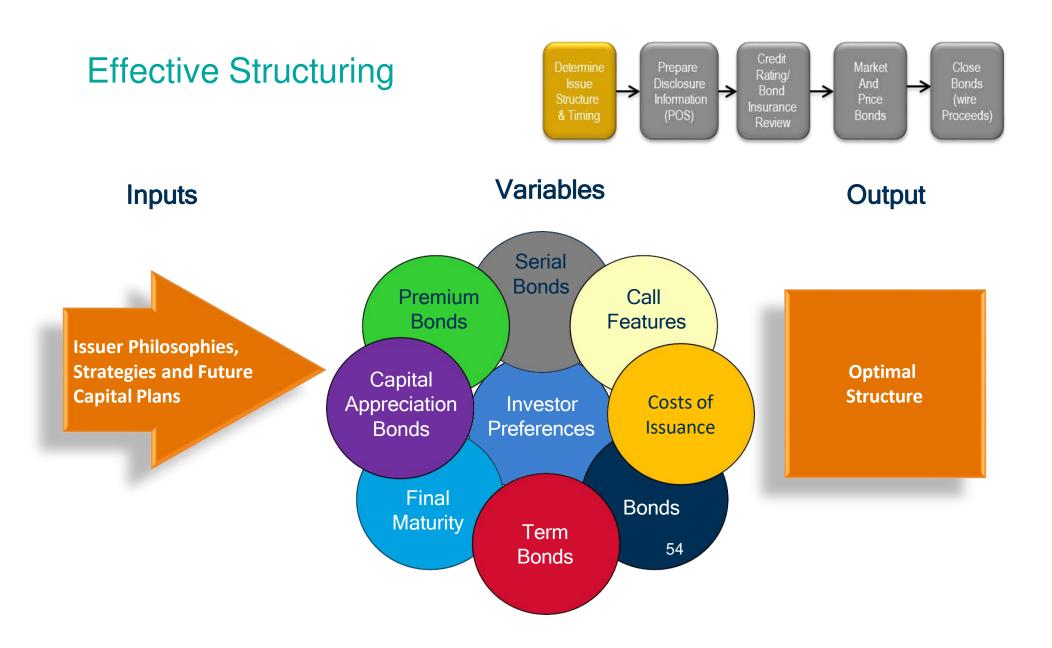
There are two components of structuring your bond issue:

Component

1. Plan of Issuance

Objectives

- Ensure availability of funds when needed
- Maximize construction period investment earnings
- Minimize/avoid arbitrage rebate
- Manage impact of tax increase
 - Optimize benefits of structuring features (calls, discounts, premiums, etc.)
 - Consider future capital plans
- 2. Plan of Repayment



Bond StructuresSerials

✓ Principal amount matures each year

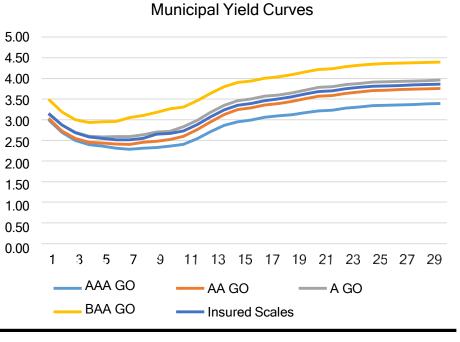


Terms

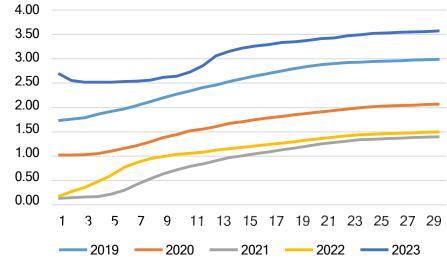
- $\checkmark~$ An issue of bonds that mature on the same date
- \checkmark Usually, issuer makes sinking fund payments until maturity date
- Premium or Discount
- Optional Redemption (callable/pre-payment)
- Rated and Non-rated
- Insurance

Market Interest Rates and the Yield Curve

Municipal Yield Curves as of 05/03/2023									
			Ge	"AAA" Rar	Coupon 1ge"				
Year	Maturity	"AAA"	PRE-RE	INSURE D	"AA"	"A"	"BAA"	"LOW"	"HIGH"
1	2024	3.00	3.10	3.15	3.03	3.14	3.49	5.00	5.00
2	2025	2.69	2.79	2.87	2.73	2.87	3.19	5.00	5.00
3	2026	2.50	2.58	2.68	2.55	2.69	3.00	5.00	5.00
4	2027	2.39	2.43	2.58	2.45	2.60	2.93	5.00	5.00
5	2028	2.36	2.40	2.55	2.44	2.58	2.95	5.00	5.00
6	2029	2.31	2.35	2.51	2.41	2.59	2.96	5.00	5.00
7	2030	2.28	2.32	2.51	2.40	2.59	3.05	5.00	5.00
8	2031	2.31	2.35	2.55	2.45	2.63	3.10	5.00	5.00
9	2032	2.33	-	2.65	2.48	2.70	3.18	5.00	5.00
10	2033	2.36	-	2.67	2.52	2.72	3.26	5.00	5.00
11	2034	2.40	-	2.73	2.60	2.83	3.31	5.00	5.00
12	2035	2.54	-	2.88	2.76	2.98	3.46	5.00	5.00
13	2036	2.71	-	3.07	2.95	3.18	3.64	5.00	5.00
14	2037	2.86	-	3.24	3.13	3.35	3.80	5.00	5.00
15	2038	2.95	-	3.35	3.25	3.46	3.90	5.00	5.00
16	2039	2.99	-	3.39	3.29	3.50	3.94	5.00	5.00
17	2040	3.06	-	3.46	3.36	3.57	4.01	5.00	5.00
18	2041	3.09	-	3.50	3.39	3.60	4.04	5.00	5.00
19	2042	3.12	-	3.55	3.44	3.65	4.09	5.00	5.00
20	2043	3.17	-	3.62	3.51	3.72	4.16	5.00	5.00
21	2044	3.21	-	3.68	3.57	3.78	4.22	5.00	5.00
22	2045	3.23	-	3.70	3.59	3.80	4.24	5.00	5.00
23	2046	3.28	-	3.75	3.64	3.85	4.29	5.00	5.00
24	2047	3.31	-	3.78	3.67	3.88	4.32	5.00	5.00
25	2048	3.34	-	3.81	3.71	3.91	4.35	5.00	5.00
26	2049	3.35	-	3.82	3.72	3.92	4.36	5.00	5.00
27	2050	3.36	-	3.83	3.73	3.93	4.37	5.00	5.00
28	2051	3.37	-	3.84	3.74	3.94	4.38	5.00	5.00
29	2052	3.38	-	3.85	3.75	3.95	4.39	5.00	5.00
30	2053	3.39	-	3.86	3.76	3.96	4.40	5.00	5.00



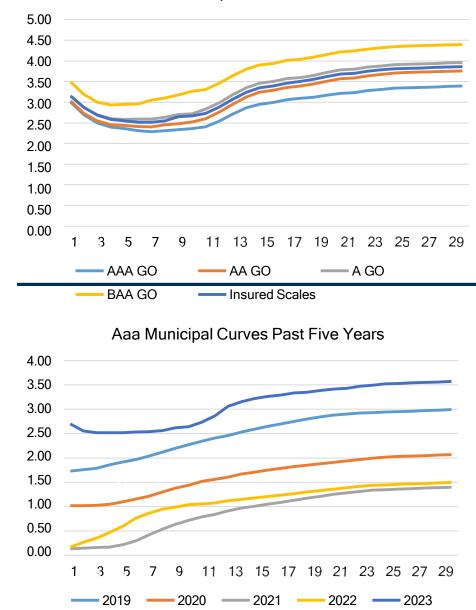
Aaa Municipal Curves Past Five Years



Source: Thomson Reuters

			Ge	"AAA" Rar	Coupon nge"				
Year	Maturity	"AAA"	PRE-RE	INSURE D	"AA"	"A"	"BAA"	"LOW"	"HIGH"
1	2024	3.00	3.10	3.15	3.03	3.14	3.49	5.00	5.00
2	2025	2.69	2.79	2.87	2.73	2.87	3.19	5.00	5.00
3	2026	2.50	2.58	2.68	2.55	2.69	3.00	5.00	5.00
4	2027	2.39	2.43	2.58	2.45	2.60	2.93	5.00	5.00
5	2028	2.36	2.40	2.55	2.44	2.58	2.95	5.00	5.00
6	2029	2.31	2.35	2.51	2.41	2.59	2.96	5.00	5.00
7	2030	2.28	2.32	2.51	2.40	2.59	3.05	5.00	5.00
8	2031	2.31	2.35	2.55	2.45	2.63	3.10	5.00	5.00
9	2032	2.33	-	2.65	2.48	2.70	3.18	5.00	5.00
10	2033	2.36	-	2.67	2.52	2.72	3.26	5.00	5.00
11	2034	2.40	-	2.73	2.60	2.83	3.31	5.00	5.00
12	2035	2.54	-	2.88	2.76	2.98	3.46	5.00	5.00
13	2036	2.71	-	3.07	2.95	3.18	3.64	5.00	5.00
14	2037	2.86	-	3.24	3.13	3.35	3.80	5.00	5.00
15	2038	2.95	-	3.35	3.25	3.46	3.90	5.00	5.00
16	2039	2.99	-	3.39	3.29	3.50	3.94	5.00	5.00
17	2040	3.06	-	3.46	3.36	3.57	4.01	5.00	5.00
18	2041	3.09	-	3.50	3.39	3.60	4.04	5.00	5.00
19	2042	3.12	-	3.55	3.44	3.65	4.09	5.00	5.00
20	2043	3.17	-	3.62	3.51	3.72	4.16	5.00	5.00
21	2044	3.21	-	3.68	3.57	3.78	4.22	5.00	5.00
22	2045	3.23	-	3.70	3.59	3.80	4.24	5.00	5.00
23	2046	3.28	-	3.75	3.64	3.85	4.29	5.00	5.00
24	2047	3.31	-	3.78	3.67	3.88	4.32	5.00	5.00
25	2048	3.34	-	3.81	3.71	3.91	4.35	5.00	5.00
26	2049	3.35	-	3.82	3.72	3.92	4.36	5.00	5.00
27	2050	3.36	-	3.83	3.73	3.93	4.37	5.00	5.00
28	2051	3.37	-	3.84	3.74	3.94	4.38	5.00	5.00
29	2052	3.38	-	3.85	3.75	3.95	4.39	5.00	5.00
30	2053	3.39	-	3.86	3.76	3.96	4.40	5.00	5.00

Source: Thomson Reuters



Municipal Yield Curves

Bond Type	Maturity	Amount	Coupon	Yield	Price	Yield to Maturity	Call Date	Premium (Discount)
Serial Bonds					•		•	
	12/1/2023	\$3,250,000	5.000%	3.230%	101.234			\$40,105
	12/1/2024	\$345,000	5.000%	3.280%	102.838			\$9,791
	12/1/2025	\$500,000	5.000%	3.230%	104.558			\$22,790
	12/1/2026	\$525,000	5.000%	3.030%	106.866			\$36,047
	12/1/2027	\$550,000	5.000%	2.970%	108.863			\$48,747
	12/1/2028	\$580,000	5.000%	2.950%	110.702			\$62,072
	12/1/2029	\$610,000	5.000%	2.930%	112.528			\$76,421
	12/1/2030	\$740,000	5.000%	2.870%	114.64			\$108,336
	12/1/2031	\$780,000	5.000%	2.940%	115.729			\$122,686
	12/1/2032	\$820,000	5.000%	2.960%	117.108			\$140,286
	12/1/2033	\$915,000	5.000%	3.010%	116.648	3.156%	12/1/2032	\$152,329
	12/1/2034	\$960,000	5.000%	3.140%	115.464	3.389%	12/1/2032	\$148,454
	12/1/2035	\$1,005,000	5.000%	3.250%	114.472	3.573%	12/1/2032	\$145,444
	12/1/2036	\$1,165,000	5.000%	3.410%	113.048	3.772%	12/1/2032	\$152,009
	12/1/2037	\$1,225,000	5.000%	3.490%	112.344	3.890%	12/1/2032	\$151,214
	12/1/2038	\$1,285,000	5.000%	3.610%	111.298	4.023%	12/1/2032	\$145,179
	12/1/2039	\$1,410,000	5.000%	3.710%	110.435	4.129%	12/1/2032	\$147,134
	12/1/2040	\$1,480,000	5.000%	3.790%	109.75	4.213%	12/1/2032	\$144,300
	12/1/2041	\$1,550,000	5.000%	3.860%	109.156	4.283%	12/1/2032	\$141,918
	12/1/2042	\$1,745,000	5.000%	3.890%	108.902	4.324%	12/1/2032	\$155,340
	12/1/2043	\$1,835,000	4.250%	4.400%	97.969		12/1/2032	(\$37,269)
Total Serial Bonds		\$23,275,000						\$2,113,332
Term Bonds					58			
	12/1/2048	\$11,050,000	5.500%	3.970%	112.226	4.677%	12/1/2032	\$1,350,973
	12/1/2052	\$11,675,000	4.375%	4.580%	96.683		12/1/2032	(\$387,260)
Total Term Bonds		\$22,725,000						\$963,713

*Hypothetical Example

Maturity Date	Serial Bonds	2048 Term Bond	2052 Term Bond	Total	Maturity Date	Prinipal	Coupon	Interest	Debt Service
12/1/2023	\$3,250,000	-	-	\$3,250,000	12/1/2023	\$3,250,000	5.000%	\$1,619,470	\$4,869,470
12/1/2024	\$345,000	-	-	\$345,000	12/1/2024	\$345,000	5.000%	\$2,106,019	\$2,451,019
12/1/2025	\$500,000	-	-	\$500,000	12/1/2025	\$500,000	5.000%	\$2,088,769	\$2,588,769
12/1/2026	\$525,000	-	-	\$525,000	12/1/2026	\$525,000	5.000%	\$2,063,769	\$2,588,769
12/1/2027	\$550,000	-	-	\$550,000	12/1/2027	\$550,000	5.000%	\$2,037,519	\$2,587,519
12/1/2028	\$580,000	-	-	\$580,000	12/1/2028	\$580,000	5.000%	\$2,010,019	\$2,590,019
12/1/2029	\$610,000	-	-	\$610,000	12/1/2029	\$610,000	5.000%	\$1,981,019	\$2,591,019
12/1/2030	\$740,000	-	-	\$740,000	12/1/2030	\$740,000	5.000%	\$1,950,519	\$2,690,519
12/1/2031	\$780,000	-	-	\$780,000	12/1/2031	\$780,000	5.000%	\$1,913,519	\$2,693,519
12/1/2032	\$820,000	-	-	\$820,000	12/1/2032	\$820,000	5.000%	\$1,874,519	\$2,694,519
12/1/2033	\$915,000	-	-	\$915,000	12/1/2033	\$915,000	5.000%	\$1,833,519	\$2,748,519
12/1/2034	\$960,000	-	-	\$960,000	12/1/2034	\$960,000	5.000%	\$1,787,769	\$2,747,769
12/1/2035	\$1,005,000	-	-	\$1,005,000	12/1/2035	\$1,005,000	5.000%	\$1,739,769	\$2,744,769
12/1/2036	\$1,165,000	-	-	\$1,165,000	12/1/2036	\$1,165,000	5.000%	\$1,689,519	\$2,854,519
12/1/2037	\$1,225,000	-	-	\$1,225,000	12/1/2037	\$1,225,000	5.000%	\$1,631,269	\$2,856,269
12/1/2038	\$1,285,000	-	-	\$1,285,000	12/1/2038	\$1,285,000	5.000%	\$1,570,019	\$2,855,019
12/1/2039	\$1,410,000	-	-	\$1,410,000	12/1/2039	\$1,410,000	5.000%	\$1,505,769	\$2,915,769
12/1/2040	\$1,480,000	-	-	\$1,480,000	12/1/2040	\$1,480,000	5.000%	\$1,435,269	\$2,915,269
12/1/2041	\$1,550,000	-	-	\$1,550,000	12/1/2041	\$1,550,000	5.000%	\$1,361,269	\$2,911,269
12/1/2042	\$1,745,000	-	-	\$1,745,000	12/1/2042	\$1,745,000	5.000%	\$1,283,769	\$3,028,769
12/1/2043	\$1,835,000	-	-	\$1,835,000	12/1/2043	\$1,835,000	4.250%	\$1,196,519	\$3,031,519
12/1/2044	-	\$1,910,000	-	\$1,910,000	12/1/2044	\$1,910,000	5.500%	\$1,118,531	\$3,028,531
12/1/2045	-	\$2,075,000	-	\$2,075,000	12/1/2045	\$2,075,000	5.500%	\$1,013,481	\$3,088,481
12/1/2046	-	\$2,190,000	-	\$2,190,000	12/1/2046	\$2,190,000	5.500%	\$899,356	\$3,089,356
12/1/2047	-	\$2,310,000	-	\$2,310,000	12/1/2047	\$2,310,000	5.500%	\$778,906	\$3,088,906
12/1/2048	-	\$2,565,000	-	\$2,565,000	12/1/2048	\$2,565,000	5.500%	\$651,856	\$3,216,856
12/1/2049	-	-	\$2,705,000	\$2,705,000	12/1/2049	\$2,705,000	4.375%	\$510,781	\$3,215,781
12/1/2050	-	-	\$2,820,000	\$2,820,000	12/1/2050	\$2,820,000	4.375%	\$392,438	\$3,212,438
12/1/2051	-	-	\$3,010,000	\$3,010,000	12/1/2051	\$3,010,000	4.375%	\$269,063	\$3,279,063
12/1/2052	-	-	\$3,140,000	\$3,140,000	12/1/2052	\$3,140,000	4.375%	\$137,375	\$3,277,375
	\$23,275,000	\$11,050,000	\$11,675,000	\$46,000,000	·	\$46,000,00	0	\$42,451,38	33 \$88,451,383

	Maturity					Yield to		Premium
Bond Type	Date	Amount	Rate	Yield	Price	Maturity	Call Date	(-Discount)
Serial Bond:								
	12/1/2019	\$215,000	2.000%	1.260%	101.516			\$3,259
	12/1/2020	\$215,000	4.000%	1.380%	107.881			\$16,944
	12/1/2021	\$230,000	2.000%	1.520%	101.892			\$4 <i>,</i> 352
	12/1/2022	\$235,000	4.000%	1.690%	111.205			\$26 <i>,</i> 332
	12/1/2023	\$245,000	4.000%	1.870%	112.192			\$29 <i>,</i> 870
	12/1/2024	\$250,000	5.000%	2.040%	119.428			\$48,570
	12/1/2025	\$260,000	5.000%	2.210%	120.547			\$53 <i>,</i> 422
	12/1/2026	\$280,000	5.000%	2.380%	121.286			\$59 <i>,</i> 601
	12/1/2027	\$290,000	5.000%	2.530%	121.859			\$63 <i>,</i> 391
	12/1/2028	\$305,000	2.500%	2.710%	97.999			-\$6,103
	12/1/2029	\$300,000	4.000%	4.000%	100.000			\$0
		\$4,155,000						\$418,735
Term Bond 2								
	12/1/2040	\$2,995,000	4.000%	3.250%	106.402 C	3.590%	12/1/2027	\$191,740
		\$7,150,000						\$610,475
Serials Bonds	Term Bond							

Hypothetical Illustration

Discount and Premium Bonds

- Original Issue Discount (OID) An amount by which the par value of a security exceeded its public offering price at the time of its original issuance. The original issue discount is amortized over the life of the security and, on a municipal security, is generally treated as tax-exempt interest.
- Original Issue Premium The amount by which the public offering price of a security at the time of this original issuance exceeded its par value. The original issue premium is amortized over the life of the security and results in an adjustment to the basis of the security.

Pricing of Bonds – Par, Premium and Discount

- Pricing The process by which the issuer and underwriter(s) determine the interest rates and prices at which the new issue will be offered to the public.
- <u>Coupon</u> The rate of interest the Issuer pays.
- <u>Yield</u> The rate of interest the investor receives.
- <u>Price</u> amount of dollars or percent of principal paid by an investor for a note or bond bond.
- <u>Discount</u> Notes or Bonds sold at a price less than the par (face value) amount. In this situation the coupon is less than the yield.
- <u>Premium</u> Notes or Bonds sold at a price greater than the par amount. In this situation the coupon is greater than the yield.



Pricing of Bonds – Par, Premium and Discount

Bond Type	Maturity	Amount	Coupon	Yield	Price	Yield to Maturity	Call Date	Premium (Discount)
Serial Bonds				-		•	•	
	12/1/2023	\$3,250,000	5.000%	3.230%	101.234			\$40,105
	12/1/2024	\$345,000	5.000%	3.280%	102.838			\$9,791
	12/1/2025	\$500,000	5.000%	3.230%	104.558			\$22,790
	12/1/2026	\$525,000	5.000%	3.030%	106.866			\$36,047
	12/1/2027	\$550,000	5.000%	2.970%	108.863			\$48,747
	12/1/2028	\$580,000	5.000%	2.950%	110.702			\$62,072
	12/1/2029	\$610,000	5.000%	2.930%	112.528			\$76,421
	12/1/2030	\$740,000	5.000%	2.870%	114.64			\$108,336
	12/1/2031	\$780,000	5.000%	2.940%	115.729			\$122,686
	12/1/2032	\$820,000	5.000%	2.960%	117.108			\$140,286
	12/1/2033	\$915,000	5.000%	3.010%	116.648	3.156%	12/1/2032	\$152,329
	12/1/2034	\$960,000	5.000%	3.140%	115.464	3.389%	12/1/2032	\$148,454
	12/1/2035	\$1,005,000	5.000%	3.250%	114.472	3.573%	12/1/2032	\$145,444
	12/1/2036	\$1,165,000	5.000%	3.410%	113.048	3.772%	12/1/2032	\$152,009
	12/1/2037	\$1,225,000	5.000%	3.490%	112.344	3.890%	12/1/2032	\$151,214
	12/1/2038	\$1,285,000	5.000%	3.610%	111.298	4.023%	12/1/2032	\$145,179
	12/1/2039	\$1,410,000	5.000%	3.710%	110.435	4.129%	12/1/2032	\$147,134
	12/1/2040	\$1,480,000	5.000%	3.790%	109.75	4.213%	12/1/2032	\$144,300
	12/1/2041	\$1,550,000	5.000%	3.860%	109.156	4.283%	12/1/2032	\$141,918
	12/1/2042	\$1,745,000	5.000%	3.890%	108.902	4.324%	12/1/2032	\$155,340
	12/1/2043	\$1,835,000	4.250%	4.400%	97.969		12/1/2032	(\$37,269)
Total Serial Bonds		\$23,275,000						\$2,113,332
Term Bonds								
	12/1/2048	\$11,050,000	5.500%	3.970%	112.226	4.677%	12/1/2032	\$1,350,973
	12/1/2052	\$11,675,000	4.375%	4.580%	96.683		12/1/2032	(\$387,260)
Total Term Bonds		\$22,725,000						\$963,713

Optional Redemption/Call Option

Redemption Features

- Callable Bonds A bond that the issuer is permitted to redeem before the stated maturity at a specified price, sometimes at or above par, by giving notice of redemption in a manner specified in the bond contract.
 - Redemption A transaction in which the issuer repays to the holder of an outstanding security the principal amount thereof (plus, in certain cases, an additional amount representing a redemption premium).
 - Redemption can be made under several different circumstances: at maturity of the security, as a result of the issuer exercising a right under the bond contract to repay the security prior to its scheduled maturity date (often referred to as a "call"), or as a result of the security holder's election to exercise a put or tender option privilege.
- Non-Callable Bonds A bond that cannot be redeemed at the issuer's option before its stated maturity date.

Callable Bonds versus Non-Callable Bonds

	Callable Bonds									
Maturity	Amount	Coupon	Yield	Price	Premium (Discount)					
12/1/2033	\$915,000	5.000%	3.010%	116.648	\$152,329					
12/1/2034	\$960,000	5.000%	3.140%	115.464	\$148,454					
12/1/2035	\$1,005,000	5.000%	3.250%	114.472	\$145,444					
12/1/2036	\$1,165,000	5.000%	3.410%	113.048	\$152,009					
12/1/2037	\$1,225,000	5.000%	3.490%	112.344	\$151,214					
12/1/2038	\$1,285,000	5.000%	3.610%	111.298	\$145,179					
12/1/2039	\$1,410,000	5.000%	3.710%	110.435	\$147,134					
12/1/2040	\$1,480,000	0.05	0.0379	109.75	\$144,300					
	\$9,445,000				\$1,186,063					

Total Proceeds: \$10,631,063

Non-Callable Bonds									
Maturity	Amount	Coupon	Yield	Price	Premium (Discount)				
12/1/2033	\$915,000	5.000%	3.010%	118.104	\$165,652				
12/1/2034	\$960,000	5.000%	3.140%	118.107	\$173,827				
12/1/2035	\$1,005,000	5.000%	3.250%	118.101	\$181,915				
12/1/2036	\$1,165,000	5.000%	3.410%	117.295	\$201,487				
12/1/2037	\$1,225,000	5.000%	3.490%	117.256	\$211,386				
12/1/2038	\$1,285,000	5.000%	3.610%	116.553	\$212,706				
12/1/2039	\$1,410,000	5.000%	3.710%	115.955	\$224,966				
12/1/2040	\$1,480,000	5.000%	3.790%	115.502	\$229,430				
-	\$9,445,000				\$1,601,368				
	Total Proceeds: \$11,046,368								

Net Result of Bond Structuring

Sources:

Bond Proceeds:	
Par Amount	19,250,000.00
Premium	934,921.60
	20,184,921.60
Uses:	
Project Fund Deposits:	
Project Fund	19,250,000.00
Other Fund Deposits:	
Bond Retirement Fund	646,682.77
Delivery Date Expenses:	
Cost of Issuance	173,250.00
Underwriter's Discount	114,988.83
	288,238.83
	20,184,921.60

Refunding Options

Issuing Taxable Debt

 Taxable bonds are exempt from federal tax law, therefore a taxable refinancing is not subject to the "one advance refunding" rule, like a tax-exempt issuance. This option would allow issuers to execute an advance refunding and secure interest savings on bonds that can only be currently refunded or were advance refunded.

Current Refunding with Forward Option

Using a forward option, an issuer can execute a refinancing outside of the traditional 90 day time frame for a current refunding. Under this option, an issuer would price their debt a number of months in advance, and close within 90 days of the call date of the refunding opportunity. Typically, for each month between pricing and closing, issuers will have to pay investors between 5-10bps in extra yield.

Option 1

Refund outstanding debt on a taxable basis. Taxable bonds are exempt from federal tax laws.

Option 2

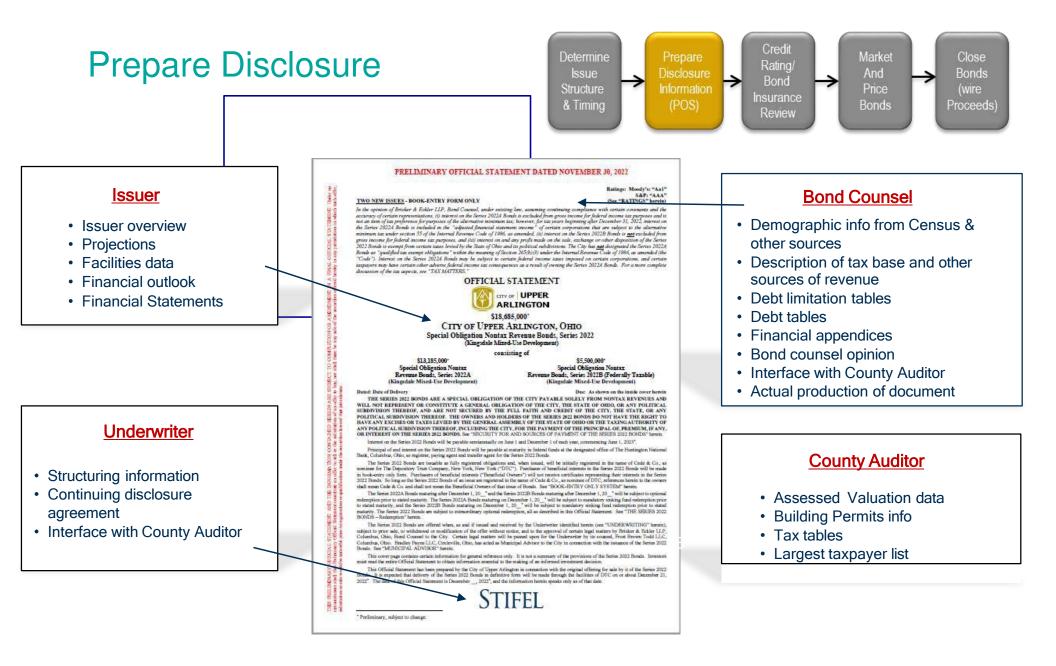
Execute a current refunding months before the call date, but close within 90 days of the call date.

Current Refunding

The tax-reform bill eliminated advance refundings, but maintained the legality of current refundings; the major distinction between the two is that current refundings occur within 90 days of a call date. Going forward, we expect to see optional redemption dates of fewer than 10 years from the original dated date.

Option 3

Refund outstanding debt within 90 days of the call date

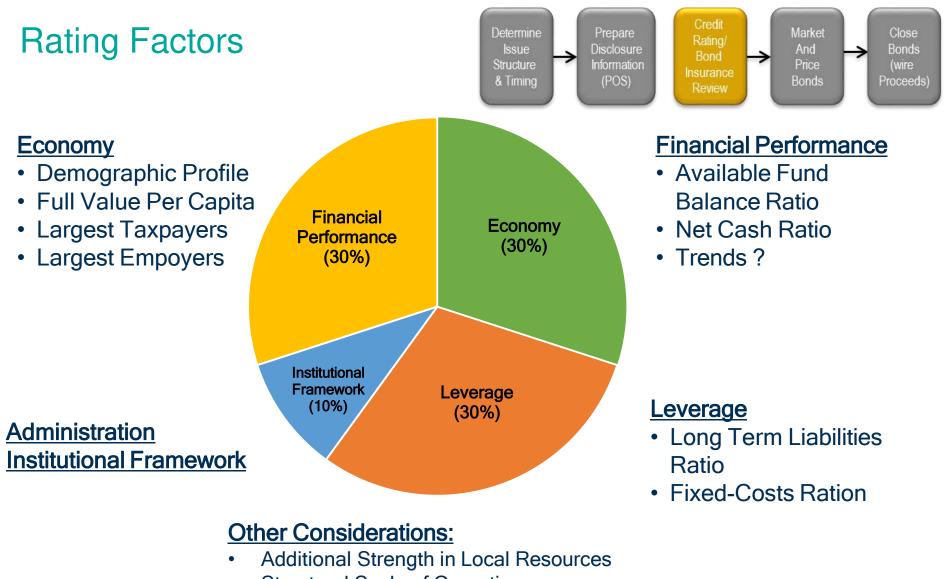


Credit Rating Process Market Close Issue Disclosure Price Structure (wire & Timing (POS) Bonds Proceeds) Decreasing Moody's STANDARD & POOR'S RATINGS SERVICES **Fitch**Ratings **Credit Quality**, INVESTORS SERVICE McGRAW HILL FINANCIA Increasing Prime Aaa AAA AAA **Yields High Grade** Aa1, Aa2, Aa3 AA+, AA, AA-AA+, AA, AA-Investment Grade Upper Medium Grade A1, A2, A3 A+, A, A-A+, A, A-Lower Medium Grade Baa1, Baa2, Baa3 BBB+, BBB, BBB-BBB+, BBB, BBB-Speculative Ba1, Ba2, Ba3 BB+, BB, BB-BB+, BB, BB-Non-**Highly Speculative** B1, B2, B3 B+, B, B-B+, B, B-Investment Grade Substantial Risks Caa1, Caa2, Caa3 CCC+, CCC, CCC-CCC+, CCC, CCC-

Credit Rating Process

- Inform Agency of Upcoming Sale
- Provide Necessary Information
 - ✓ Financial Statements, Budgets, Audits, POS
- Analyst Performs Review
- Issuer Financing Team Interaction with Analyst
 - ✓ Presentation or Conference Call
 - \checkmark Follow-up Questions and Clarifications
- Credit Committee Presentation
- Rating Determination & Issuer Credit Report

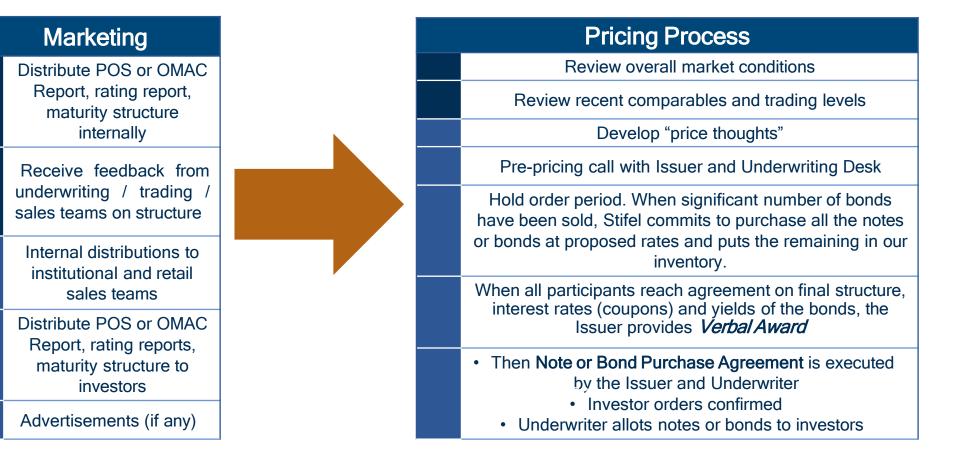




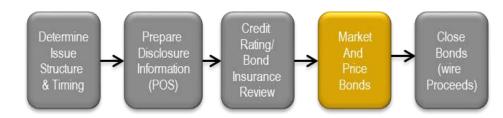
- Structural Scale of Operations
- Robust Financial Reporting
- Potential for Significant Change in Leverage

Pricing and Marketing the Bonds

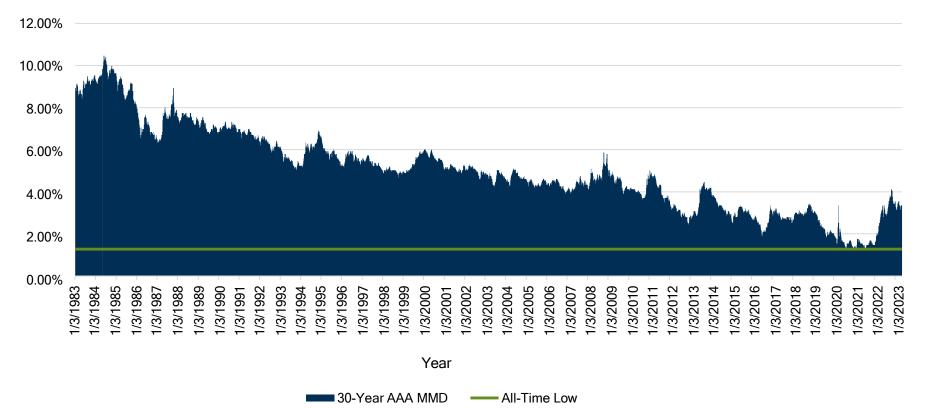




Pricing the Bonds



30-Year Tax-Exempt Interest Rates



Source: TM3

Investor Type	Short End					Heart					Long End																			
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Short Bond Funds																														
Corporations																														
Municipalities																														
Individual Retail																														
Professional Retail																														
Bank Trust Departments																														
Intermediate Bond Funds																														
Insurance Companies																														
Bank Portfolios																														
Long Bond Funds																						_		_	_					
Relative-Value Buyers																														

Closing the Bond Issue



Closing Activities

- Underwriter wires funds to issuer
- Issuer confirms to the underwriter that all wires are received
- Bond counsel confirms everything is in place for closing
- Underwriter and Paying Agent call DTC (Depository Trust Company) to release the bonds to investors

Village of Orange Case Study – Fund Balance Drawdown vs Debt Issuance

Government Finance Officers Association

BEST PRACTICES

Fund Balance Guidelines for the General Fund

Governments should establish a formal policy on the level of unrestricted fund balance that should be maintained in the general fund for GAAP and budgetary purposes.

GFOA recommends that governments establish a formal policy on the level of unrestricted fund balance that should be maintained in the general fund for GAAP and budgetary purposes. Such a guideline should be set by the appropriate policy body and articulate a framework and process for how the government would increase or decrease the level of unrestricted fund balance over a specific time period. In particular, governments should provide broad guidance in the policy for how resources will be directed to replenish fund balance should the balance fall below the level prescribed. **Appropriate Level**. The adequacy of unrestricted fund balance in the general fund should take into account each government's own unique circumstances. For example, governments that may be vulnerable to natural disasters, more dependent on a volatile revenue source, or potentially subject to cuts in state aid and/or federal grants may need to maintain a higher level in the unrestricted fund balance. Articulating these risks in a fund balance policy makes it easier to explain to stakeholders the rationale for a seemingly higher than normal level of fund balance that protects taxpayers and employees from unexpected changes in financial condition. Nevertheless, GFOA recommends, at a minimum, that general-purpose governments, regardless of size, maintain unrestricted budgetary fund balance in their general fund of no less than two months of regular general fund operating revenues or regular general fund operating expenditures. The choice of revenues or expenditures as a basis of comparison may be dictated by what is more predictable in a government's particular circumstances.

In establishing a policy governing the level of unrestricted fund balance in the general fund, a government should consider a variety of factors, including:

- 1. The predictability of its revenues and the volatility of its expenditures (i.e., higher levels of unrestricted fund balance may be needed if significant revenue sources are subject to unpredictable fluctuations or if operating expenditures are highly volatile);
- 2. Its perceived exposure to significant one-time outlays (e.g., disasters, immediate capital needs, state budget cuts);
- 3. The potential drain upon general fund resources from other funds, as well as, the availability of resources in other funds;
- 4. The potential impact on the entity's bond ratings and the corresponding increased cost of borrowed funds;
- 5. Commitments and assignments (i.e., governments may wish to maintain higher levels of unrestricted fund balance to compensate for any portion of unrestricted fund balance already committed or assigned by the government for a specific purpose). Governments may deem it appropriate to exclude from consideration resources that have been committed or assigned to some other purpose and focus on unassigned fund balance, rather than on unrestricted fund balance.

Village of Orange Fund Balance Policy

This Fund Balance Policy is designed to ensure that Orange Village maintains adequate reserves in its General Fund in order to:

1. Provide sufficient cash flow for daily financial needs.

2. Offset significant economic downturns or revenue shortfalls.

3. Provide funds for unforeseen expenditures resulting from emergencies.

4.Secure and maintain investment grade bond ratings. Bond rating agencies usually recommend reserving a percentage of General Fund revenue or expenditures as a standard methodology.

This Fund Balance Policy is a guideline for the Village's administration and intended to provide general direction regarding the Village's future cash flow obligations, to minimize borrowing costs and to maintain the highest credit rating on its bonds.

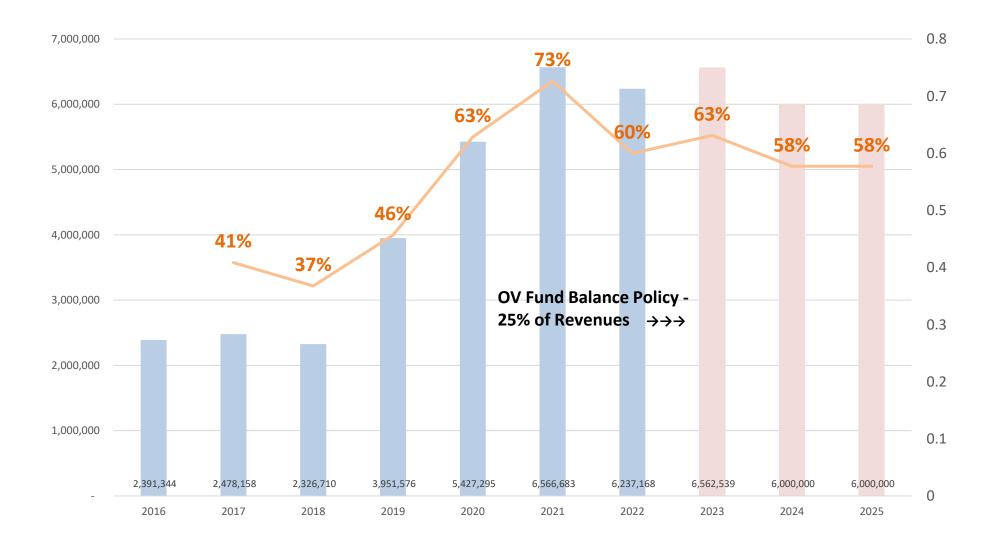
GENERAL FUND RESERVES:

The Orange Village administration will, each year, recommend to the Village Council that the Village set aside, and not appropriate, a General Fund Reserve in an amount equal to at least 25% of the estimated General Fund revenues for the year.

Moody's Investor Services – Current Ohio "Aa2" Rated Communties

Athens, OH	Aa2	28.1		
Avon, OH	Aa2	72.3		
Beavercreek, OH	Aa2	54.3		
Berea, OH	Aa2	33.6		
Bowling Green, OH	Aa2	33.6		
Broadview Heights, OH	Aa2	55.8		
Brooklyn, OH	Aa2	176.5		
Brunswick, OH	Aa2	184.9		
Centerville (Montgomery County), OH	Aa2	121.7		
Cincinnati, OH	Aa2	24.2		
Clayton, OH	Aa2	113.3		
Concord Township, OH	Aa2	16.8		
Cuyahoga Falls, OH	Aa2	54.4		
Dayton, OH	Aa2	39.1		
Delaware, OH	Aa2	50.8		
Delhi Township (Hamilton County), OH	Aa2	352.3		
Fairborn, OH	Aa2	45.2		
Fairfield Township (Butler County), OH	Aa2	261.3		
Fairview Park, OH	Aa2	58.5		
Heath, OH	Aa2	55.6		
Highland Heights, OH	Aa2	79.4		
Kent, OH	Aa2	137.6		
Lakewood, OH	Aa2	43.2		
Lebanon, OH	Aa2	80.5		
Loveland, OH	Aa2	131.8		
Maumee, OH	Aa2	64.4		
Mayfield Heights, OH	Aa2	63.4		
Miami Township (Clermont County), OH	Aa2	148.0		
Miami Township (Montgomery County), OH	Aa2	158.5		
Miamisburg, OH	Aa2	71.1		
Middleburg Heights, OH	Aa2	42.4		
North Olmsted, OH	Aa2	46.2		
North Royalton, OH	Aa2	42.5		
Oxford, OH	Aa2	63.0		
Pickerington, OH	Aa2	116.5		
Reynoldsburg, OH	Aa2	77.5		
Rocky River, OH	Aa2	39.2		
Sharonville, OH	Aa2	81.3		
Springfield Township (Hamilton County), OH	Aa2	142.1		
Stow, OH	Aa2	45.9		
Sycamore Township (Hamilton County), OH	Aa2	117.1		
Sylvania, OH	Aa2	25.7		
Tallmadge, OH	Aa2	65.4		
Tipp City, OH	Aa2 Aa2	104.3		
Twinsburg, OH	Aa2 Aa2	57.1		
Vandalia, OH	Aa2 Aa2	106.2		
Violet Township (Fairfield County), OH	Aa2 Aa2	82.0		
Willoughby, OH	Aa2 Aa2	48.0	 35%	average
winoughby, Oh	7.az	-+0.0	 53%	median

Orange General Fund YEB (excluding Agency) vs Revenue Years 2016- 2022 (actual) 2023-2025 (est)



General Fund YEB — YEB % of GF Revenue

Table of Orange Fund Balance (Actual and Projected)

Year	General Fund YEB	YEB % of GF Revenue	GF Revenue
2016	2,391,344		
2017	2,478,158	41%	6,064,638
2018	2,326,710	37%	6,328,823
2019	3,951,576	46%	8,651,235
2020	5,427,295	63%	8,637,077
2021	6,566,683	73%	9,042,321
2022	6,237,168	60%	10,396,195
2023	6,562,539	63%	10,396,196
2024	6,000,000	58%	10,396,197
2025	6,000,000	58%	10,396,198

Voted Bond Millage Scenarios

Village of Oran	ge								
Assumptions:									
\$1,000,000 borrow	= \$71,000 annual debt								
Assessed Valuation 1 Mill equals				232,744,780 \$ 233,000					
1 Mill per 100,000 MV h	nome equals			\$ 35					
					Cost to	Cost to	Cost to	Cost to	Cost to
					Property	Property	Property	Property	Property
	Amoun			New Mills			Owner of		Owner of
	Borrowii Millio	•	Required Annual Debt Service	Required to Service Debt		\$200,000 home	\$300,000 home	\$400,000 home	\$500,000 home
		5	\$ 355,000	1.5	\$ 53	\$ 107	\$ 160	\$ 213	\$ 267
		6	\$ 426,000	1.8	\$ 64	\$ 128	\$ 192	\$ 256	\$ 320
		7	\$ 497,000	2.1	\$ 75	\$ 149	\$ 224	\$ 299	\$ 373
		8	\$ 568,000	2.4	\$ 85	\$ 171	\$ 256	\$ 341	\$ 427

KEY RESPONSIBILITIES OF THE

FINANCIAL ADVISOR

(All Methods of Sale)

- Assists in evaluating capital funding alternatives and developing a financing plan.
- Assists with obtaining required authorizations, including referenda
- Provides advice on method of sale (where appropriate)
- Develops RFP for financing team
- Evaluates proposal submissions
- Recommends timing of bond sale
- Identifies tasks, responsibilities, and dates for completing activities leading up to bond sale
- Designs debt structure
- Provides advice on approach to ratings and assists with rating presentation
- Evaluates use of and obtains bids for credit enhancement (if appropriate)
- Assists in producing and reviewing documents, including preliminary and final official statements
- Conducts pre-marketing of issue (competitive sale)
- Evaluates bids, including accuracy of TIC calculation, and recommends award (competitive sale)
- Reviews pricing and allocation of bonds (negotiated sale)
- Assists with closing arrangements
- Provides advice on investment of bond proceeds (if appropriate)
- Provides advice related to compliance with arbitrage regulations

KEY RESPONSIBILITIES OF THE

SENIOR MANAGING UNDERWRITER

- (Negotiated Sale)
- Recommends timing of bond sale
- Identifies tasks, responsibilities, and dates for completing activities leading up to bond sale
- Designs debt structure
- Provides advice on approach to ratings and assists with rating presentation
- Evaluates use of and obtains bids for credit enhancement (if appropriate)
- Assists in producing and reviewing documents, including preliminary and final official statements
- Conducts pre-marketing of issue
- Prepares preliminary pricing analysis prior to planned sale date
- Distributes preliminary and final official statements
- Coordinates syndicate activities in pricing and allocating bonds
- Purchases bonds from issuer for sale to final investors
- Assists with closing arrangements
- Completes sales report including designations and allotments

Thank You

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