TOWN OF
WATERTOWN
Office of the Town Manager

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Michael J. Driscoll
Town Manager

To: Honorable Town Council

From: Michael J. Driscoll, Town Manager

Date: January 26, 2016

RE: Fiscal Year 2017-2021 Capital Improvement Program

Pursuant to the provisions of the Watertown Home Rule Charter, the Town Council Resolution on the Fiscal Year 2017 Budget Process and the Town Council Resolution on Watertown's Ongoing Capital Project Budget Guidelines, I herewith present the Proposed Fiscal Year 2017-2021 Capital Improvement Program (CIP).

The Proposed Fiscal Year 2017-2021 General Fund CIP totals $139,979,800, which represents an increase of $1,959,300 from the Fiscal Year 2016-2020 CIP. The bonding requirement is $40,467,200 and the Street and Sidewalk bonds of $65,735,800 listed in Fiscal Year 2021 are not included in the bonding requirement.

The funding source of $15,900,000 of the CIP has not been determined. The following are the projects/items with the funding source to be determined (TBD).

• Watertown Square Structured Parking		$ 5,000,000
• Former Police Facility Renovation/Reuse		$ 4,800,000
• Coolidge Square Design & Renovation		$ 3,000,000
• Former East Branch Renovation/Reuse		$ 1,500,000
• Former North Branch Renovation/Reuse		$ 1,100,000
• Multi-Service Center Renovation		$ 250,000
• Information Technology Improvements		$ 250,000
	TOTAL:	$15,900,000

The CIP includes all known capital needs, regardless of the source of funding. During Fiscal Year 2008, in accordance with one of the Honorable Town Council's Budget Policy Guidelines, funding was included to obtain a Facilities Assessment Study. The Architecture firm of B. Goba & Associates completed the Facilities Assessment Study of nineteen buildings and provided recommendations for repairs and maintenance over the next ten years totaling $14,539,546.

The Study has been utilized in the development of the Fiscal Year 2017-2021 CIP and has served as a guide to allocate monies for ongoing maintenance.

In accordance with Fiscal Year 2017 Budget Policy Guideline II.L., a Request for Proposal will be issued in Fiscal Year 2016 for an updated Facilities Assessment Study that will detail the repairs and improvements needed to maintain the existing municipal facilities.

Water and Sewer Enterprise Funds Capital Improvement Program (CIP)
The proposed Fiscal Year 2017-2021 Water and Sewer Enterprise Funds CIP totals $22,142,000, which represents an increase of $3,357,000 from the Fiscal Year 2016-2020 Enterprise Funds CIP; and is attached in this document.

Stormwater Infrastructure Improvements of $37,200,000 are included in the same document with the funding source to be determined (TBD). As stated in the Fiscal Year 2016 Budget Message, "In accordance with Town Council's Budget Policy Guideline, a determination of how to fund future stormwater infrastructure improvements will be undertaken. Options exist including the creation of a stormwater utility, which could be set up as an Enterprise Fund (as the City of Newton has done); or financing could be established through the General Fund. It will be important to first have the NPDES permit issued by EPA in order to determine exactly what costs will need to be addressed. The Stormwater Advisory Committee will be giving an informational presentation to the Honorable Town Council on options for funding Stormwater Infrastructure Improvements".

On April 28, 2015, the Honorable Town Council approved a proposed Loan Order totaling $530,000 utilizing monies from the MWRA Inflow and Infiltration I/I Local Financial Assistance Program which consists of a $238,500 grant (45%) and a $291,500 interest free loan (55%) payable over five years.

On April 28, 2015, the Honorable Town Council also approved a proposed interest free Loan Order totaling $900,000 utilizing monies from the MWRA Local Water System Assistance Program (LWSAP). This program provides funds for replacing outdated unlined cast iron water mains in the Town's distribution system which will improve system water quality and increase system pressures and flows.

Additionally, the acquisition of a water service box truck totaling $160,000 was included in a proposed Loan Order approved by the Honorable Town Council at the June 23, 2015 Town Council Meeting.

Included in the Fiscal Year 2016 Enterprise Funds CIP is the utilization of $550,000 from the MWRA Inflow and Infiltration I/I Local Financial Assistance Program which consists of a $247,500 grant (45%) and a $302,500 interest free loan (55%) payable over five years. The Proposed Loan Order for this project will be brought forward prior to the end of Fiscal Year 2016.

A proposed interest free Loan Order totaling $500,000 will also be brought forward prior to the end of Fiscal Year 2016 utilizing monies from the MWRA Local Water System Assistance Program (LWSAP). As indicated above, this program provides funds for replacing outdated unlined cast iron water mains in the Town's distribution system which will improve system water quality and increase system pressures and flows.

The Council's Committee on Public Works will be exploring options for the Department of Public Works' proposed replacement of Town-wide residential and commercial water meters.

In Fiscal Year 2017, The Department of Public Works will be undertaking multiple projects throughout the Town utilizing previously appropriated capital funds. The various projects are related to the following:

- Inflow and Infiltration Removal
- Sewer and Drain Replacement & Relining
- Water System Improvements
- Water Main Replacements

All of the work to the water, sewer and drain systems directly impacts the Water and Sewer rates. Interest free loans and outright grants will enable the Town to perform necessary work with little or minimal impact on the rate payers.

Fiscal Year 2013 Proposed Loan Orders

As a follow up to the Honorable Town Council's adoption of conceptual recommendations on the Fiscal Year 2016-2020 Capital Improvement Program, the following was the revised list of items contained in the Fiscal Year 2013 CIP. Proposed Loan Orders were to be brought forward for these capital items.

• Administration Building Improvements	$ 852,000 [1]
• Library Building Improvements (Slate Roof)	$ 325,000
• Fire Stations (3) Improvements	$ 500,000
• Public Works Equipment (#51 Dump Truck)	$ 160,000
• Police Equipment (Microwave Link and Computers)	$ 111,000
TOTAL:	$1,948,000

1 An additional $271,700 will be utilized from previously appropriated monies

On April 28, 2015, the Honorable Town Council approved a proposed Loan Order totaling $262,800 related to a roofing project at the North Fire Station and Administration Building. The two roofing projects were combined for economy of scale and efficiency. These projects were originally part of a larger project for repairs at five Town buildings (Administration Building, Library, Main Fire Station, North Fire Station and East Fire Station) that will be bid in the coming months.

On June 23, 2015, the Honorable Town Council approved a proposed Loan Order that included Department of Public Works Equipment of $160,000 and Police Equipment totaling $111,000 from the Fiscal Year 2013 CIP.

The following is a revised list of items contained in the Fiscal Year 2013 CIP. Proposed Loan Orders will be brought forward subsequent to the Honorable Town Council's adoption of conceptual recommendations on the Fiscal Year 2017-2021 Capital Improvement Program.

• Administration Building Improvements	$ 852,000 [1]
• Library Building Improvements (Slate Roof)	$ 325,000
• Fire Stations (3) Improvements	$ 500,000
TOTAL:	$1,677,000

1 An additional $271,700 will be utilized from previously appropriated monies

Energy Services Company (ESCO) Project

One of the top priorities of the Honorable Town Council's Fiscal Year 2013 Budget Policy Guidelines was to work with the Town's selected Energy Services Company (ESCO) to develop and implement a plan toward reducing municipal baseline energy usage by 20% in five years; and having been certified as a Green Community, continue to pursue every related grant.

On February 26, 2013 the Honorable Town Council approved a loan order of $7,350,000 to move forward on the optimized ESCO Project. The following is a summary of the ESCO Project:

- Covers 14 Town and School Buildings
- 97 Energy Infrastructure Upgrade Projects
- $7.35 Million in Energy Infrastructure Investments
- Estimated 22.11% savings of baseline energy usage in electricity
- Estimated 32.01% savings of baseline energy usage in natural gas

The Energy Performance and Management Service Agreement with Johnson Controls has been negotiated and executed. The following are some of the highlights of the Agreement:

- Creative financing method that leverages existing operating and energy budgets to implement turnkey energy infrastructure solutions, increase building efficiency and reduce operating costs.
- Annual realized energy and operational savings are reallocated to pay debt service obligations plus any annual program costs.
- Permanent financing payment obligations are met by the guaranteed annual energy savings. The guaranteed annual energy savings is required by both State law and contractual obligations.
- The performance contracting program has been properly optimized to result in the proposed implementation of key infrastructure upgrades that will produce long-term sustainable energy and operational savings, along with key environmental benefits.
- The measurement and verification program, as negotiated between Johnson Controls and the Town balances risk with cost and provides for a quarterly review of performance to support the annual review.

As a follow up to the above summary and highlights of the Energy Performance and Management Service Agreement, the Honorable Town Council reviewed the establishment of an Energy Stabilization Fund in which to place rebates, grants and funds from departmental energy savings. On May 14, 2013, the Honorable Town Council established the ESCO Capital Projects Stabilization Fund which will be used to pay the debt service on the energy efficiency projects incurred under the ESCO Project.

At the September 10, 2014 Town Council Meeting, Beth Greenblatt, Beacon Integrated Solutions and Owner's Agent, provided an update on the ESCO Project. At that presentation, Ms. Greenblatt indicated Johnson Controls is expected to complete the project on budget; projected utility rebates/incentives were $274,066 and the actual incentives received total $351,639; and Johnson Controls will be hosting a Measurement and Verification Workshop for all stakeholders.

The Measurement and Verification Workshop was held on February 27, 2015 and was designed to update all stakeholders on the Measurement and Verification Program and set expectations as to the requirements, obligations and information during the performance phase of the ESCO Project.

Fiscal Year 2014 Proposed Loan Orders

As a follow up to the Honorable Town Council's adoption of conceptual recommendations on the Fiscal Year 2016-2020 Capital Improvement Program, the following was the revised list of items contained in the Fiscal Year 2014 CIP. Proposed Loan Orders were to be brought forward for these capital items.

• Skating Arena Improvements		$ 34,000
• Public Works Equipment		$ 502,000
• Library Building Improvements		$ 100,000
	TOTAL:	$ 636,000

On June 23, 2015, the Honorable Town Council approved a proposed Loan Order that included Department of Public Works Equipment totaling $502,000 from the Fiscal Year 2014 CIP.

The following is a revised list of items contained in the Fiscal Year 2014 CIP. Proposed Loan Orders will be brought forward subsequent to the Honorable Town Council's adoption of conceptual recommendations on the Fiscal Year 2017-2021 Capital Improvement Program.

• Skating Arena Improvements		$ 34,000
• Library Building Improvements		$ 100,000
	TOTAL:	$ 134,000

Fiscal Year 2015 Proposed Loan Orders

As a follow up to the Honorable Town Council's adoption of conceptual recommendations on the Fiscal Year 2016-2020 Capital Improvement Program, the following was a revised list of items contained in the Fiscal Year 2015 CIP. Proposed Loan Orders were to be brought forward for these capital items.

• Street & Sidewalk Improvements		$2,500,000
• Various School Improvements		$ 915,000
• Filippello Park/Grove Street End of Park		$ 600,000
• Public Works Equipment		$ 426,000
• Underground Duct for Utilities		$ 300,000
• Library Building Improvements		$ 65,000
• Fire Equipment (Emergency Ambulance Vehicle)		$ 235,000
	TOTAL:	$5,041,000

On April 14, 2015, the Honorable Town Council approved a Loan Order totaling $770,000 for two Fiscal Year 2015 Projects that construction was completed this past summer. The two projects are as follows:

• Hosmer – Unit Ventilators Replacement		$595,000
• Middle School – Floor Replacement		$175,000
	TOTAL:	$770,000

On June 23, 2015, the Honorable Town Council authorized a Loan Order totaling $2,800,000 to fund Street and Sidewalk Improvements and underground duct for utilities contained in the Fiscal Year 2015 CIP.

On June 23, 2015, the Honorable Town Council also approved a proposed Loan Order that included Department of Public Works Equipment of $426,000; Library Building Improvements of $65,000; and a Fire Department Emergency Ambulance Vehicle totaling $235,000.

The following is a revised list of items contained in the Fiscal Year 2015 CIP. Proposed Loan Orders will be brought forward subsequent to the Honorable Town Council's adoption of conceptual recommendations on the Fiscal Year 2017-2021 Capital Improvement Program.

• Hosmer School Pre-School Walkway		$ 145,000
• Filippello Park/Grove Street End of Park		$ 600,000
	TOTAL:	$ 745,000

School Capital Projects

Since 1995 and through tonight's submission, the Honorable Town Council has appropriated $51,055,900 in Loan Order authorizations and additional transfer of funds for the renovating, expanding and equipping of all the schools.

In an effort to protect that investment, the Fiscal Year 2017-2021 CIP includes funding of various school improvements totaling $9,758,000 over the next five years including $858,600 in Fiscal Year 2017, of which $461,600 will be included in the "School Capital Projects" appropriation, $197,000 will be included in a future loan order and $200,000 related to technology will be funded within the School Department's operating budget.

As stated in the Fiscal Years 2009 and 2010 Budget Messages, beginning in Fiscal Year 2011, Technology will be funded within the School Department's operating budget.

The following is a breakdown by location of the School Capital Projects included in the Fiscal Year 2017 CIP.

• Lowell		$ 195,000
• District		$ 132,700
• Middle School		$ 122,500
• High School		$ 79,300
• Hosmer		$ 76,600
• Cunniff		$ 45,000
• Phillips		$ 7,500
	TOTAL:	$ 658,600

One of the Honorable Town Council's Fiscal Years 2015 through and 2017 Budget Policy Guidelines is to "Work with the School Committee and Administration to develop long-range plans, including budget, timeline, and identification of funding sources and mechanisms to address school building requirements in order to meet the identified needs for enrollment and programs".

As a follow up to that Budget Policy Guideline, on February 10, 2015 the Honorable Town Council approved the submission of an Accelerated Repair Program Statement of Interest to the Massachusetts School Building Authority. The Accelerated Repair Program (ARP) is primarily for the repair and/or replacement of roofs, windows and/or boilers. The Reimbursement Rate for

calendar years 2014 and 2015 for Watertown is 48.47%. The Accelerated Repair in question is the replacement of windows at the Middle School.

On June 3, 2015, the Town was informed that the MSBA had voted to invite the Town of Watertown into the Accelerated Repair Program to partner with the MSBA in conducting a Schematic Design Study at the Watertown Middle School for a potential window/door replacement project.

On September 14, 2015, in keeping with the program requirements of the MSBA's Accelerated Repair Program (ARP), the MSBA assigned both an owner's project manager (OPM) and a designer to the Middle School project the Town had been invited to participate in the ARP.

On October 5, 2015, the MSBA provided the Town an additional 45 days to execute and submit the Contract for Project Management Services as well as the Contract for Designer Services. The submission of the Contracts needed to be made to the MSBA prior to November 25, 2015.

On October 21, 2015, Dr. Fitzgerald, Superintendent of Schools, provided an update to the Honorable School Committee on the Middle School Windows Project indicating the cost estimate by the MSBA for construction (excluding OPM and designer fees) was between $2.6 and $2.9 million, significantly more the original estimate of $302,642.

As a follow-up to the above mentioned October 21, 2015 correspondence, upon the completion of the Fiscal Year 2017 Preliminary Budget Overview at the October 27, 2015 Town Council Meeting, the MSBA Accelerated Repair Program Award (Middle School windows) was referred to the Committee on Budget and Fiscal Oversight.

The Committee on Budget and Fiscal Oversight met on November 4, 2015 on the above mentioned referral. Emerging from that discussion was the following motion "*To recommend that the full Town Council endorse this project and proceed with the revised scope of work, and to have the First Reading of a $224,400 Loan Order at its November 10 meeting, and a subsequent Public Hearing on November 24, to meet the November 25 deadline*".

On November 24, 2015, the Honorable Town Council approved the above mentioned Loan Order of $224,400 to pay costs for design services and project management services related to a potential partial window/door replacement at the Middle School. This project is listed in the Fiscal Year 2018 CIP at a cost of $3,000,000, of which $1,455,000 is anticipated to be reimbursed from MSBA.

On March 10, 2015, the Honorable Town Council approved the submission of a Core Program Statement of Interest to the Massachusetts School Building Authority. The Core Program is primarily for projects beyond the scope of the Accelerated Repair Program, including extensive repairs, renovations, addition/renovations, and new school construction. The Core Program in question is the High School.

On December 18, 2015, the MSBA informed the Town that the Watertown High School SOI will not be invited into the MSBA's Fiscal Year 2015 eligibility period. MSBA indicated if Watertown would like the High School to be considered for future collaboration with the MSBA, the Town should file an SOI in Fiscal Year 2016 by April 8, 2016.

The Honorable School Committee and Honorable Town Council will consider the submission of a Fiscal Year 2016 SOI in the coming months and in advance of the above mentioned deadline.

Fiscal Year 2016 Proposed Loan Orders

As you recall, the Fiscal Year 2016 Budget Message dated April 28, 2015 stated Proposed Loan Orders would be brought forward for the various capital items contained in the Fiscal Year 2016 CIP. The acquisition of the proposed items is consistent with one of the Honorable Town Council's priorities of not deferring maintenance and/or recognition of costs of capital equipment, facilities and infrastructure to future years. The items that were to be included in the Proposed Loan Orders are as follows:

• Street & Sidewalk Improvements	$2,500,000
• Victory Field Improvements (Phase II)	$2,500,000
• Public Works Equipment	$1,490,000
• Moxley Courts Renovations & Lighting	$ 900,000
• Various School Improvements	$ 460,000
• Fire Stations (2) Improvements	$ 325,000
• Police Equipment	$ 263,800
• Parks Control Link Retrofit	$ 100,000
TOTAL:	$8,538,800

The following is a revised list of items contained in the Fiscal Year 2016 CIP. Proposed Loan orders will be brought forward subsequent to the Honorable Town Council's adoption of conceptual recommendations on the Fiscal Year 2017-2021 Capital Improvement Program.

• Street & Sidewalk Improvements	$2,500,000
• Public Works Equipment	$1,196,000
• Moxley Courts Renovations & Lighting	$ 900,000
• Fire Stations (2) Improvements	$ 325,000
• Various School Improvements	$ 150,000
• Administration Building Emergency Generator	$ 150,000
• Police Equipment	$ 104,200
• Parks Control Link Retrofit	$ 100,000
TOTAL:	$5,425,200

Fiscal Year 2016 Transfers of Funds

The following items are not included in the Fiscal Year 2017-2021 Capital Improvement Program as the intent is to have the Honorable Town Council consider transfer of funds requests during Fiscal Year 2016 or the utilization of previously appropriated monies. The items are as follows:

- Redesign of Town's website
- Updated Facilities Assessment Study
- Records Storage Management & related issues
- Repair of existing elevator at Victory Field Grandstand
- Linear Park Walkway Lighting
- Community Path Design (Mt. Auburn to Main Street)
- Fleet Management Information System

Capital Projects Stabilization Fund
The original North East Solid Waste Committee Agreement (NESWC) expired in September 2005 and the Town has executed three Post 2005 Agreements through Fiscal Year 2020. As a result of these actions and the foresight the Town had in funding the significant costs of the NESWC Agreement, transfers of $500,000 annually from the NESWC/Capital Projects Stabilization Fund began in Fiscal Year 2006 and will continue through Fiscal Year 2019.

In order to continue the annual transfer of $500,000 beyond Fiscal Year 2019, we will look for opportunities to make transfers to this Stabilization Fund in an effort to support Capital Projects.

Street and Sidewalk Improvements
Street and sidewalk maintenance is one of the top priorities in the Honorable Town Council's Fiscal Years 2009 through 2017 Budget Policy Guidelines. Within the Fiscal Year 2017-2021 CIP, $88,715,800 is designated for street and sidewalk improvements. The Fiscal Year 2016 General Fund Budget includes $873,341 to augment projected Chapter 90 monies. Beginning in Fiscal Year 1999 and including Fiscal Year 2016, the Honorable Town Council has approved $11,202,778 for the Street and Sidewalk Improvements appropriation, an average of $622,377 for each of the eighteen fiscal years.

One of the top priorities of the Honorable Town Council's Budget Policy Guidelines was to update the Roadway Management Study to develop a priority list and funding schedule for the improvements of the Town's streets and sidewalks. Implement infrastructure recommendations from the Strategic Framework for Economic Development and pursue state/federal funding such as the Transportation Improvement Program (TIP) and School Safety Zone funding to improve traffic and safety.

The updated Roadway Management Study was presented to the Committee on Public Works on February 21, 2012 and a report of that meeting was provided to the Honorable Town Council at the February 28, 2012 Town Council Meeting..

The following is a summary of the updated Roadway Management Study and related points from the Committee on Public Works minutes.

- There are two significant differences in the new study that were not included in the previous study:
- Use of advanced technologies to preserve a road surface and extend the amount of time before repaving is needed, such as crack sealing and micro-planing.
- Change of scope to include curbs, sidewalks, and planting strip rehabilitation in addition to paving of the street surface.
- The study indicated that Watertown has 73.68 miles of road, not the 71.80 that MassDOT shows; thus Watertown may be eligible for additional Chapter 90 funds.
- Every road was surveyed and assigned a Road Surface Rating (RSR) of 1 to 100, where 100 is a newly paved road. The composite RSR is 70, and Watertown's RSR is 59.
- The leading cause of road failure is water infiltration through cracks and utility patches, and heavy vehicle loads from trucks to buses.
- The estimated cost to bring all roads to a RSR of 100 in one year is about $92M, but this will change each year as new roads age and old roads are fixed.
- The purpose of this study is to develop a long-term plan to maximize the use of Capital Improvement Program (CIP) funds to increase the Town's overall RSR average.

On August 14, 2012, the Honorable Town Council authorized a Loan Order totaling $2,500,000 to fund Street and Sidewalk Improvements.

On June 24, 2014, the Honorable Town Council authorized another Loan Order totaling $2,500,000 to fund Street and Sidewalk Improvements contained in the Fiscal Year 2014 CIP.

As previously stated, on June 23, 2015 the Honorable Town Council authorized a Loan Order totaling $2,800,000 to fund Street and Sidewalk Improvements and underground duct for utilities contained in the Fiscal Year 2015 CIP.

As a follow up to the adoption of conceptual recommendations on the Fiscal Year 2016-2020 Capital Improvement Program, the plan for a Loan Order totaling $2,500,000 in the Fiscal Year 2016 CIP was referred to the Public Works Committee for policy guidance in accordance with Resolution 2013-76 *Watertown's Ongoing Capital Project Budget Guidelines.*

Five future Loan Orders for Street and Sidewalk Improvements totaling $13,475,000 are included in the Proposed Fiscal Year 2017-2021 CIP. A Loan Order of $3,475,000 is proposed for Fiscal Year 2017; and four Loan Orders of $2,500,000 are proposed for Fiscal Years 2018 through and including Fiscal Year 2021.

In summary, beginning in Fiscal Year 2013 and continuing through Fiscal Year 2021, the Honorable Town Council has or is planning on authorizing loan orders totaling $23,475,000 over the nine fiscal years, all within the confines of Proposition 2 ½.

Monument Restoration
Funding of $50,000 was included in the Fiscal Year 2013 Budget to move forward with restoring the various monuments around Town to their appropriate condition for the remembrance of the various people or events that are being recognized.

The Conservation staff, working with the Historic Commission, Historic Society, and citizens, have completed the restoration of the vandalized and damaged monuments in various locations around Town, consistent with the initial intent of these funds. Estimates were secured for preservation work at the Arlington Street Cemetery. It was also discovered that there may be grant funds available for this work, if the location is on the National Historic Register. In order to leverage existing dollars, the Town should consider pursuing National Historic Register designation. Bids are being secured to help process such an application for the Town's two historic cemeteries. The designation would then be followed up with grant applications and contracting with a preservationist to utilize these funds to repair and preserve as many resources as possible in the Town's two historic cemeteries.

Annual funding of $15,000 has been included in the Proposed Fiscal Year 2017-2021 CIP to allow for the above mentioned efforts to continue and provide for regular upkeep and maintenance of Town monuments.

Town Capital Projects
The Town Capital Projects line item includes $200,000 for recreational playground improvements in the Fiscal Year 2017 CIP.

CLOSING

In addition to all of the above mentioned Capital Projects, I respectfully recommend discussion continue with the Honorable Town Council on the following items:

- Reuse of Town Buildings (Former Branch Libraries & Former Police Station)
- Record Storage
- Recreation and Open Space Improvements/Opportunities
- Structured Parking Watertown Square

Discussions will need to be held regarding integrating additional improvements in Fiscal Years 2017-2021 and, at the same time, looking to identify how best to fund these improvements. I look forward to working with the Honorable Town Council in their adoption of conceptual recommendations on the Fiscal Year 2017-2021 Capital Improvement Program.

cc: Honorable School Committee
Honorable Library Board of Trustees
All Department Heads

FY 2017 - FY 2021 CIP General Fund

	A	B	C	D	E	F	G	H	I	J	K	L	M
1			TOTALS	FY '17		FY '18		FY '19		FY '20		FY '21	
2		ADMINISTRATION											
3		Administration Building Renovations	100.0	20.0	TR	20.0	TR	20.0	TR	20.0	TR	20.0	TR
4	20	Renovation/Reuse Former Police Facility	4,800.0	4,800.0	TBD								
5	20	Multi-Service Center Renovation	250.0	250.0	TBD								
6	20	Renovation/Reuse former East Branch	1,500.0	1,500.0	TBD								
7	20	Renovation/Reuse former North Branch	1,100.0	1,100.0	TBD								
8		ADMINISTRATION SUBTOTAL	7,750.0	7,670.0		20.0		20.0		20.0		20.0	
9													
10													
11		COMMUNITY DEVELOPMENT											
12	20	Coolidge Square Design & Renovation	3,000.0	3,000.0	TBD								
13	20	Watertown Square Structured Parking	5,000.0			5,000.0	TBD						
14		Monument Restoration & Replacement	75.0	15.0	TR	15.0	TR	15.0	TR	15.0	TR	15.0	TR
15		COMMUNITY DEVELOPMENT SUBTOTAL	8,075.0	3,015.0		5,015.0		15.0		15.0		15.0	
16													
17													
18		INFORMATION TECHNOLOGY											
19	5	GIS (Assessors Office & IT)	100.0	50.0	BE					50.0	BE		
20	10	Data Center Needs	170.0	170.0	TBD								
21	5	Document Management System	80.0	80.0	TBD								
22		INFORMATION TECHNOLOGY SUBTOTAL	350.0	300.0		0.0		0.0		50.0		0.0	
23													
24													
25		FIRE DEPARTMENT											
26	5	Replace Protective Gear	210.0	15.0	TR					195.0	BE		
27		ALS Ambulance Medical Equipment	200.0	40.0	TR	40.0	TR	40.0	TR	40.0	TR	40.0	TR
28		Chief's, & staff vehicles (3)	120.0	40.0	TR			40.0	TR			40.0	TR
29	5	DOT Type III Emergency Ambulance Vehicle	495.0			245.0	BE					250.0	BE
30	15	Pumper Truck, replacement for 2004 Engine 2	550.0			550.0	BE						
31	5	Replace Deputy Chief (C2) vehicle	55.0							55.0	BE		
32		FIRE DEPARTMENT SUBTOTAL	1,630.0	95.0		835.0		80.0		290.0		330.0	
33													
34		LIBRARY											
35	5	Interactive Technology	30.0	30.0	BE								
36	10	Replace Boiler	20.0			20.0	BR						
37		Building Renovations/Replacement of Equip	250.0	50.0	TR	50.0	TR	50.0	TR	50.0	TR	50.0	TR
38		LIBRARY DEPARTMENT SUBTOTAL	300.0	80.0		70.0		50.0		50.0		50.0	
39													

FY 2017 - FY 2021 CIP General Fund

	A	B	C	D	E	F	G	H	I	J	K	L	M
1			TOTALS	FY '17		FY '18		FY '19		FY '20		FY '21	
40		POLICE DEPARTMENT											
41		Police Cruisers (3 annually)	722.3	136.9	TR	141.0	TR	145.2	TR	149.6	TR	149.6	TR
42		Radio Infrastructure/specialized equipment	200.0	40.0	TR	40.0	TR	40.0	TR	40.0	TR	40.0	TR
43	5	Bullet Proof Vests	11.0	11.0	GR								
44	5	Increase Storage Capacity of Video Retention	315.7	159.6	BE	102.0	BE	54.1	BE				
45	5	In Cruiser Video System	54.3					54.3	BE				
46	5	Replacement of Mobile Data System	174.2					174.2	BE				
47		POLICE SUBTOTAL	1,477.5	347.5		283.0		467.8		189.6		189.6	
48													
49													
50		PUBLIC WORKS DEPARTMENT											
51		**Administration**											
52		Parking Meter Stations (4)	50.0	50.0	PF								
53		Parking Meters - Square / West bound (125)	88.5	88.5	PF								
54		Parking Meters - remaining (263)	186.0			186.0	PF						
55		ADMINISTRATION SUBTOTAL	324.5	138.5		186.0		0.0		0.0		0.0	
56													
57		**Central Motors**											
58		Inspectors' Vehicles - hybrid	245.0	35.0	TR	70.0	TR	35.0	TR	70.0	TR	35.0	TR
59	5	Diagnostic Tools & Computer Equipment	55.0	55.0	BE								
60	10	Fuel Management System Upgrade	60.0			60.0	BE						
61	5	Supervisor Vehicle	50.0									50.0	BE
62		CENTRAL MOTORS SUBTOTAL	410.0	90.0		130.0		35.0		70.0		85.0	
63													
64		**Highway**											
65	10	Triaxle Dump Truck	260.0	260.0	BE								
66	5	Supervisor Pickup	60.0	60.0	BE								
67	5	Sweeper	230.0	230.0	BE								
68	10	Backhoe	232.0	232.0	BE								
69	10	6 Wheel Dump Truck	233.0			233.0	BE						
70	10	Front End Loader	230.0			230.0	BE						
71	10	Skid Steer	130.0					65.0	BE			65.0	BE
72	10	Truck, dump 55000 GVW	220.0					220.0	BE				
73	10	Service Flat Bed	85.0							85.0	BE		
74	10	Street Vactor	85.0									85.0	BE
75		HIGHWAY SUBTOTAL	1,765.0	782.0		463.0		285.0		85.0		150.0	
76													
77													

	A	B	C	D	E	F	G	H	I	J	K	L	M
1			TOTALS	FY '17		FY '18		FY '19		FY '20		FY '21	
78		**Snow & Ice Removal**											
79		Salt Control Units	40.0			20.0	TR			20.0	TR		
80		Plows and Sanders / Replacement	300.0	60.0	TR	60.0	TR	60.0	TR	60.0	TR	60.0	TR
81		Salt Brine System	30.0	30.0	TR								
82	10	Sidewalk Tractor	185.0			185.0	BE						
83	10	Salter 6 Wheeler - Snow Fighter (5)	1,225.0	235.0	BE	240.0	BE	245.0	BE	250.0	BE	255.0	BE
84	10	Blower Attachment for Front End Loader	205.0	205.0	BE								
85	10	4X4 6 Wheeler	260.0			260.0	BE						
86	10	Combo Body 6 Wheeler	230.0					230.0	BE				
87	10	Combo Body 6 Wheeler	230.0					230.0	BE				
88	10	Loader	300.0							300.0	BE		
89	10	Triaxle Dump Truck	247.0							247.0	BE		
90	10	Loader 3/4 Yard	107.0									107.0	BE
91		SNOW & ICE REMOVAL SUBTOTAL	3,359.0	530.0		765.0		765.0		877.0		422.0	
92													
93													
94		**Cemetery**											
95	10	Backhoe	232.0	232.0	BE								
96	10	Mini Front End Loader Snow Blower Attach.	105.0			105.0	BE						
97	10	Off Road Utility Vehicle 4X4 (3)	90.0					30.0	BE	30.0	BE	30.0	BE
98		CEMETERY SUBTOTAL	427.0	232.0		105.0		30.0		30.0		30.0	
99													
100													
101		**Property/Building**											
102	5	Underground Duct for Utilities	900.0	300.0	BR			300.0	BR			300.0	BR
103	5	Wire Supervisor Pick up	57.0	57.0	BE								
104	10	Bucket Truck	165.0			165.0	BE						
105	10	Sign Truck	90.0			90.0	BE						
106	10	Rough Terrain Forklift	95.0							95.0	BE		
107		PROPERTY/BUILDING SUBTOTAL	1,307.0	357.0		255.0		300.0		95.0		300.0	
108													
109													
110		**Parks & Forestry**											
111	5	Tractor Farm	75.0			75.0	BE						
112	10	1 Ton Dump Truck	85.0	85.0	BE								
113	5	Infield Groomer (2)	46.0	22.0	BE			24.0	BE				
114	5	Supervisor Pickup	60.0	60.0	BE								
115	10	Tree Truck	240.0			240.0	BE						

	A	B	C	D	E	F	G	H	I	J	K	L	M
1			TOTALS	FY '17		FY '18		FY '19		FY '20		FY '21	
116	10	Swap Loader	180.0							180.0	BE		
117	10	Tree Chipper	75.0									75.0	BE
118		PARKS & FORESTRY SUBTOTAL	761.0	167.0		315.0		24.0		180.0		75.0	
119													
120													
121		TOTAL DPW - TR	615.0	125.0	TR	150.0	TR	95.0	TR	150.0	TR	95.0	TR
122		TOTAL DPW - BE	6,514.0	1,733.0	BE	1,883.0	BE	1,044.0	BE	1,187.0	BE	667.0	BE
123		TOTAL DPW - BR	900.0	300.0	BR	-	BR	300.0	BR	-	BR	300.0	BR
124		TOTAL DPW - PF	324.5	138.5	PF	186.0	PF						
125		PUBLIC WORKS SUBTOTAL	8,353.5	2,296.5		2,219.0		1,439.0		1,337.0		1,062.0	
126													
127													
128		RECREATION & PARKS											
129	10	Victory Track, Field & Court Renov.	3,000.0	3,000.0	BR								
130		How Park, Court Resurface	25.0	25.0	TR								
131	10	Design of Casey Park Renov., Lights & Scoreboard	100.0	100.0	BR								
132	10	Casey Park Renov., Lights & Scoreboard	850.0	850.0	BR								
133		Fillippello Park (Arlington St side) Tot Lot	75.0	75.0	TR								
134		Tot Lot/Court Resurfacing as needed	540.0	100.0	TR			100.0	TR	140.0	TR	200.0	TR
135		Cunniff Court & Field Renov. Design Cost	75.0			75.0	TR						
136	10	Cunniff: Court Reconstr. & Field Renov.	750.0			750.0	BR						
137		Design of Fillipello Lights & Scoreboard	40.0			40.0	TR						
138	10	Filipello Field Lights & Scoreboard	525.0			525.0	BR						
139	10	Arsenal Park: Tot Lot Resurfacing	100.0			100.0	BR						
140		Lowell Playground: Batting Cage & Tot Lot Surf	90.0			90.0	TR						
141		Filipello pavilions, table & grill renovations	20.0					20.0	TR				
142		Arsenal Park pavilions, table & grill renovations	20.0					20.0	TR				
143	10	Saltonstall Playground, Tot Lot Resurfacing	90.0					90.0	BR				
144		Design Saltonstall Pk; Ct, Parking & Wlkwy Lights	50.0					50.0	TR				
145	10	Saltonstall Park; Court, Parking & Wlkwy Lights	300.0					300.0	BR				
146		Design Arsenal Pk; Ct, Parking & Wlkwy Lights	60.0							60.0	TR		
147	10	Arsenal Park; Court, Parking & Wlkwy Lights	500.0							500.0	BR		
148	10	Sullivan Playground: Tot Lot & Court Resurfacing	90.0							90.0	BR		
149	10	Arsenal & Fillippello: Spray Park Design & Renov	500.0									500.0	BR
150	20	Design Vic Field (Phase III) Field House Addition	200.0									200.0	BR
151	20	Victory Field (Phase III) Field House Addition	3,000.0									3,000.0	BR
152		RECREATION & PARKS SUBTOTAL	11,000.0	4,150.0		1,580.0		580.0		790.0		3,900.0	
153													

	A	B	C	D	E	F	G	H	I	J	K	L	M
1			TOTALS	FY '17		FY '18		FY '19		FY '20		FY '21	
154		SCHOOL DEPARTMENT											
155		**CUNNIFF SCHOOL**											
156		Replace classroom furniture	**59.0**	10.0	TR	10.0	TR	12.0	TR	12.0	TR	15.0	TR
157		Replace Carpet in main officer and room 155	**5.0**	5.0	TR								
158		Repace Cove mid section doors	**30.0**	30.0	TR								
159		Perimeter Window Seals (old Building)	**15.0**			15.0	TR						
160		Repoint Farcade and Steps	**13.2**					13.2	TR				
161		Replace Flood Pit Pumps (2)	**9.0**					9.0	TR				
162		Renovate bathroom areas in school	**35.0**							35.0	TR		
163		Total for Cunniff	**166.2**	**45.0**		**25.0**		**34.2**		**47.0**		**15.0**	
164													
165		**HOSMER SCHOOL**											
166		Update building furniture	**110.0**	20.0	TR	20.0	TR	22.5	TR	22.5	TR	25.0	TR
167		Replace Emergency Alarm Panel	**22.6**	22.6	TR								
168		Effervescence Cleaning (Walkway to Auditorium)	**14.0**	14.0	TR								
169		Replace Stucco Spandrels	**20.0**	20.0	TR								
170		Install A/C in cafeteria	**15.0**			15.0	TR						
171		Locker Painting (431 lockers)	**26.0**					26.0	TR				
172		Perimiter Window Seals	**20.0**					20.0	TR				
173		Install A/C in auditorium	**140.0**							140.0	TR		
174	15	Replace emergency generator	**250.0**									250.0	BR
175	15	Replace boilers	**1,200.0**									1,200.0	BR
176		Total for Hosmer	**1,817.6**	**76.6**		**35.0**		**68.5**		**162.5**		**1,475.0**	
177													
178		**LOWELL SCHOOL**											
179		Replace and update classroom furniture	**85.0**	15.0	TR	15.0	TR	17.5	TR	17.5	TR	20.0	TR
180		Install A/C in Main Office & Nurse Area	**18.0**	18.0	TR								
181	5	Replace building carpet	**219.0**	122.0	BR	97.0	BR						
182		Repair Windows	**40.0**	40.0	TR								
183		Replace Outside Ligthing/Poles	**22.0**							22.0	TR		
184		Replace Cafeteria Windows	**25.0**							25.0	TR		
185		Install A/C in cafeteria	**12.0**									12.0	TR
186		Total for Lowell	**421.0**	**195.0**		**112.0**		**17.5**		**64.5**		**32.0**	
187													
188		**WATERTOWN MIDDLE SCHOOL**											
189		Replace/update classroom furniture	**97.5**	17.5	TR	17.5	TR	20.0	TR	20.0	TR	22.5	TR
190	5	Renovate Science labs equipment	**75.0**	75.0	BE								

FY 2017 - FY 2021 CIP General Fund

	A	B	C	D	E	F	G	H	I	J	K	L	M
1			TOTALS	FY '17		FY '18		FY '19		FY '20		FY '21	
191		Replace Exterior Lighting and Timing System	15.0	15.0	TR								
192		Renovate Kitchen area into classroom	15.0	15.0	TR								
193		Remodel old bldg baths	54.0			54.0	TR						
194		Seal Lower Gym, Paint	20.0			20.0	TR						
195	15	Replace Building Windows - Town Portion 51.5%	1,545.0			1,545.0	BR						
196		Replace Building Windows - State Portion 48.5%	1,455.0			1,455.0	SBA						
197		Replace carpets in auditorium library and main office	67.2					67.2	TR				
198		Renovate new fitness center area (flooring and walls)	15.0					15.0	TR				
199	15	Replace boilers	1,200.0					1,200.0	BR				
200		Renovate Bemis entrance	50.0							50.0	TR		
201		Replace basement classroom/hallway floors	85.0									85.0	TR
202	15	Install emergency generator	250.0									250.0	BR
203		Total for Middle School	4,943.7	122.5		3,091.5		1,302.2		70.0		357.5	
204													
205		**WATERTOWN HIGH SCHOOL**											
206		Replace classroom furniture	110.0	20.0	TR	20.0	TR	22.5	TR	22.5	TR	25.0	TR
207		Repoint brick near teachers' cafeteria & auditorium.	59.3	59.3	TR								
208		Repair windows and screens	20.0			20.0	TR						
209		Re-pave parking lot & replace wood guard rail	39.5			39.5	TR						
210		Replace hot water heaters	60.0					60.0	TR				
211		Science labs	70.0			70.0	TR						
212		Replace carpet in library & auditorium	70.0					70.0	TR				
213	15	Replace emergency generator	250.0							250.0	BR		
214	15	Renovate/update main entry plaza	100.0									100.0	BR
215		Total for High School	778.8	79.3		149.5		152.5		272.5		125.0	
216													
217		**PHILLIPS SCHOOL**											
218		Furniture/Equipment/Furnishings - Phillips	37.5	7.5	TR	7.5	TR	7.5	TR	7.5	TR	7.5	TR
219		Masonry Repairs - west side	24.0			24.0	TR						
220		Install 3 univents 2nd flor classroom	57.0			57.0	TR						
221	15	Install Emergency Generator	125.0			125.0	BR						
222		Replace Vent Housing on Roof	16.0					16.0	TR				
223		Sand and re-stripe gym floor	20.0									20.0	TR
224		Total for Phillips School	279.5	7.5		213.5		23.5		7.5		27.5	
225													
226													

FY 2017 - FY 2021 CIP General Fund

	A	B	C	D	E	F	G	H	I	J	K	L	M
1			TOTALS	FY '17		FY '18		FY '19		FY '20		FY '21	
227		**DISTRICT**											
228		Replace Maintenance Vehicles	**115.0**	45.0	TR			35.0	TR			35.0	TR
229		Update Food Service Equipment	**107.7**	19.2	TR	17.8	TR	25.0	TR	15.7	TR	30.0	TR
230		More Cameras / District Audit	**71.0**	11.0	TR	20.0	TR	20.0	TR	20.0	TR		
231		Centralized ID System	**6.0**	6.0	TR								
232		Mobile Aid Stations	**5.4**	5.4	TR								
233		Design Sub-Division of Former Early Steps Space	**10.0**	10.0	TR								
234		Intercom/Bell Systems - System wide	**36.1**	36.1	TR								
235		School Technology	**1,000.0**	200.0	SA	200.0	SA	200.0	SA	200.0	SA	200.0	SA
236		Total for District	**1,351.2**	**332.7**		**237.8**		**280.0**		**235.7**		**265.0**	
237													
238		SCHOOL DEPARTMENT TOTALS											
239		Total School Technology - SA	**1,000.0**	200.0	SA	200.0	SA	200.0	SA	200.0	SA	200.0	SA
240		Total Various School Improvements - TR	**2,089.0**	461.6	TR	442.3	TR	478.4	TR	409.7	TR	297.0	TR
241		Total Various School Improvements - SBA	**1,455.0**	0.0	SBA	1,455.0	SBA	0.0	SBA	0.0	SBA	0.0	SBA
242		Total Various School Improvements - BE	**75.0**	75.0	BE	0.0	BE	0.0	BE	0.0	BE	0.0	BE
243		Total Various School Improvements - BR	**5,139.0**	122.0	BR	1,767.0	BR	1,200.0	BR	250.0	BR	1,800.0	BR
244		SCHOOL DEPARTMENT SUBTOTAL	**9,758.0**	**858.6**		**3,864.3**		**1,878.4**		**859.7**		**2,297.0**	
245													
246		SENIOR CENTER											
247	5	Senior Shuttle Bus	**115.0**					115.0	BE				
248		Building Renovation (desk,curtains,blinds)	**75.0**	15.0	TR	15.0	TR	15.0	TR	15.0	TR	15.0	TR
249		SENIOR CENTER SUBTOTAL	**190.0**	**15.0**		**15.0**		**130.0**		**15.0**		**15.0**	
250													
251		SKATING ARENA											
252	10	Building Renovations	**125.0**	25.0	TR	25.0	TR	25.0	TR	25.0	TR	25.0	TR
253	10	Door Replacement	**55.0**	55.0	BE								
254	5	Upgrade Rink Lights	**25.0**	25.0	BE								
255	5	Emergency Lighting Replacement	**15.0**			15.0	BE						
256	5	Security & Surveillance System	**25.0**			25.0	BE						
257	5	Energy Management System	**40.0**			40.0	BE						
258	10	Design of Lobby Renovation	**75.0**			75.0	BR						
259	20	Lobby Expansion & 2nd floor renov.	**1,750.0**					1,750.0	BR				
260	20	Replacement of Stands (ADA Compliance)	**150.0**					150.0	BR				
261	10	Electric Ice Resurfacing Machine	**120.0**					120.0	BE				
262		SKATING ARENA SUBTOTAL	**2,380.0**	**105.0**		**180.0**		**2,045.0**		**25.0**		**25.0**	
263													

FY 2017 - FY 2021 CIP General Fund

	A	B	C	D	E	F	G	H	I	J	K	L	M
1			TOTALS	FY '17		FY '18		FY '19		FY '20		FY '21	
264		STREETS & SIDEWALKS											
265		See Attached Schedule											
266		Common St. Project (Mt Auburn to Orchard)	975.0	975.0	EC9								
267		Common St. Project (Mt Auburn to Orchard)	975.0	975.0	STB								
268		Highway reconstruction (Chap 90)	1,852.5	370.5	C9	370.5	C9	370.5	C9	370.5	C9	370.5	C9
269		Highway reconstruction (Tax Revenue)	2,412.5	436.6	TR	458.4	TR	481.4	TR	505.4	TR	530.7	TR
270	5	Highway reconstruction (Bonds)	10,000.0	2,000.0	STB	2,000.0	STB	2,000.0	STB	2,000.0	STB	2,000.0	STB
271		Highway reconstruction (Future Bonds)	48,962.2	0.0		0.0		0.0				48,962.2	FSB
272		Sidewalk reconstruction (Chap 90)	1,852.5	370.5	C9	370.5	C9	370.5	C9	370.5	C9	370.5	C9
273		Sidewalk reconstruction (Tax Revenue)	2,412.5	436.6	TR	458.4	TR	481.4	TR	505.4	TR	530.7	TR
274	5	Sidewalk reconstruction (Bonds)	2,500.0	500.0	SWB	500.0	SWB	500.0	SWB	500.0	SWB	500.0	SWB
275		Sidewalk reconstruction (Future Bonds)	16,773.6	0.0		0.0		0.0				16,773.6	FSB
276		STREETS & SIDEWALKS SUBTOTAL	88,715.8	6,064.2		4,157.9		4,203.7		4,251.8		70,038.2	
277													
278		**GENERAL FUND CIP**	139,979.8	24,996.8		18,239.2		10,908.9		7,893.1		77,941.8	
279													
280													
281													
282		**COSTS BY SOURCE OF FUNDS**											
283		**GENERAL OBLIGATION BONDS**											
284	BE	(EQUIPMENT)	8,953.2	2,127.6		2,860.0		1,561.6		1,487.0		917.0	
285	BR	(REMODELING)	18,039.0	4,372.0		3,237.0		3,790.0		840.0		5,800.0	
286	STB	(STREET)	10,975.0	2,975.0		2,000.0		2,000.0		2,000.0		2,000.0	
287	SWB	(SIDEWALK)	2,500.0	500.0		500.0		500.0		500.0		500.0	
288		**SUBTOTAL GENERAL OBLIGATION BONDS**	40,467.2	9,974.6		8,597.0		7,851.6		4,827.0		9,217.0	
289													
290	C9	CHAPTER 90 FUNDS	3,705.0	741.0		741.0		741.0		741.0		741.0	
291	FSB	FUTURE STREET & SIDEWALK BONDS	65,735.8	0.0		0.0		0.0		0.0		65,735.8	
292	SBA	SCHOOL BUILDING ASSISTANCE	1,455.0	0.0		1,455.0		0.0		0.0		0.0	
293	GR	GRANT	11.0	11.0		0.0		0.0		0.0		0.0	
294	TR	TAX REVENUE	10,406.3	2,056.7		2,060.2		2,116.3		2,125.1		2,048.0	
295	SA	SCHOOL APPROPRIATION	1,000.0	200.0		200.0		200.0		200.0		200.0	
296	PF	PARKING FUND	324.5	138.5		186.0							
297	EC9	EXISTING CHAPTER 90	975.0	975.0									
298	TBD	TO BE DETERMINED	15,900.0	10,900.0		5,000.0		0.0		0.0		0.0	
299		**SUBTOTAL OTHER**	99,512.6	15,022.2		9,642.2		3,057.3		3,066.1		68,724.8	
300													
301		**GRAND TOTAL**	139,979.8	24,996.8		18,239.2		10,908.9		7,893.1		77,941.8	

FY2017-2021 CIP

GENERAL FUND PERMANENT DEBT

	A	B	C	D	E	F	G	H
1			FY '16	FY '17	FY'18	FY'19	FY'20	FY'21
2	**PERMANENT DEBT**							
3	FY07 Bond (Nov 06)							
4	Prin (3,465,0000)		$ 180,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000
5	L/T Int		$ 23,600	$ 18,000	$ 14,000	$ 10,000	$ 6,000	$ 2,000
6	Subtotal		$ 203,600	$ 118,000	$ 114,000	$ 110,000	$ 106,000	
7								
8	FY09 Bond (Jul 08)							
9	Prin (15,650,000)		$ 500,000	$ 500,000	$ 500,000	$ 500,000	$ 500,000	$ 500,000
10	L/T Int		$ 283,625	$ 265,500	$ 246,438	$ 226,750	$ 206,750	$ 186,500
11	Subtotal		$ 783,625	$ 765,500	$ 746,438	$ 726,750	$ 706,750	$ 686,500
12								
13	FY09 Refunding Bond Issue							
14	Prin (12,500,000)		$ 1,345,000	$ 1,193,000	$ 1,159,000	$ -	$ -	$ -
15	L/T Int		$ 72,588	$ 42,132	$ 13,908	$ -	$ -	$ -
16	Subtotal		$ 1,417,588	$ 1,235,132	$ 1,172,908	$ -	$ -	$ -
17								
18	FY10 Bond (Feb 10)							
19	Prin (5,452,000)		$ 270,000	$ 270,000	$ 270,000	$ 270,000	$ 270,000	$ 270,000
20	L/T Int		$ 141,525	$ 130,725	$ 123,300	$ 109,801	$ 96,301	$ 87,526
21	Subtotal		$ 411,525	$ 400,725	$ 393,300	$ 379,801	$ 366,301	$ 357,526
22								
23	FY12 Bond (June 12)							
24	Prin (3,722,000)		$ 435,000	$ 320,000	$ 195,000	$ 195,000	$ 195,000	$ 195,000
25	L/T Int		$ 67,038	$ 58,338	$ 48,738	$ 42,888	$ 37,038	$ 27,288
26	Subtotal		$ 502,038	$ 378,338	$ 243,738	$ 237,888	$ 232,038	$ 222,288
27								
28	FY 14 Bond (Nov 13)							
29	Prin (6,000,000)		$ 230,000	$ 235,000	$ 245,000	$ 250,000	$ 260,000	$ 265,000
30	L/T Int		$ 162,538	$ 155,638	$ 148,588	$ 141,238	$ 133,738	$ 125,938
31	Subtotal		$ 392,538	$ 390,638	$ 393,588	$ 391,238	$ 393,738	$ 390,938
32								
33	FY 12 Bond (May 2014)							
34	Prin (1,088,000) Victory Field		$ 85,000	$ 85,000	$ 85,000	$ 85,000	$ 85,000	$ 85,000
35	L/T Int		$ 35,100	$ 33,400	$ 31,275	$ 28,300	$ 24,475	$ 20,225
36	Subtotal		$ 120,100	$ 118,400	$ 116,275	$ 113,300	$ 109,475	$ 105,225
37								
38								

FY2017-2021 CIP

GENERAL FUND PERMANENT DEBT

	A	B	C	D	E	F	G	H
1			**FY '16**	**FY '17**	**FY'18**	**FY'19**	**FY'20**	**FY'21**
39	FY 13 Bond (May 2014)							
40	Prin (1,907,000) Street & Sidewalk		$ 475,000	$ 475,000	$ 475,000	$ -	$ -	$ -
41	L/T Int		$ 28,500	$ 19,000	$ 7,125	$ -	$ -	$ -
42	Subtotal		$ 503,500	$ 494,000	$ 482,125	$ -	$ -	$ -
43								
44	FY 13 Bond (May 2014)							
45	Prin (1,350,000) ESCO		$ 90,000	$ 90,000	$ 90,000	$ 90,000	$ 90,000	$ 90,000
46	L/T Int		$ 43,200	$ 41,400	$ 39,150	$ 36,000	$ 31,950	$ 27,450
47	Subtotal		$ 133,200	$ 131,400	$ 129,150	$ 126,000	$ 121,950	$ 117,450
48								
49	FY 13 Bond (May 2014)							
50	Prin (207,000) Various School Buildings		$ 20,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000
51	L/T Int		$ 6,450	$ 6,100	$ 5,725	$ 5,200	$ 4,525	$ 3,775
52	Subtotal		$ 26,450	$ 21,100	$ 20,725	$ 20,200	$ 19,525	$ 18,775
53								
54	FY 13 Bond (May 2014)							
55	Prin (370,000) Casey Park		$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000
56	L/T Int		$ 11,850	$ 11,350	$ 10,725	$ 9,850	$ 8,725	$ 7,475
57	Subtotal		$ 36,850	$ 36,350	$ 35,725	$ 34,850	$ 33,725	$ 32,475
58								
59	FY 14 Refunding Bond Issue (May 2014)							
60	Prin (7,933,000)		$ 977,000	$ 905,000	$ 870,000	$ 805,000	$ 770,000	$ 680,000
61	L/T Int		$ 277,420	$ 258,600	$ 236,500	$ 207,350	$ 172,000	$ 135,750
62	Subtotal		$ 1,254,420	$ 1,163,600	$ 1,106,500	$ 1,012,350	$ 942,000	$ 815,750
63								
64								
65	**TOTAL PERMANENT DEBT**							
66	Prin		$ 4,632,000	$ 4,213,000	$ 4,029,000	$ 2,335,000	$ 2,310,000	$ 2,225,000
67	L/T Int		$ 1,153,434	$ 1,040,183	$ 925,472	$ 817,377	$ 721,502	$ 623,927
68	**Total Permanent**		**$ 5,785,434**	**$ 5,253,183**	**$ 4,954,472**	**$ 3,152,377**	**$ 3,031,502**	**$ 2,848,927**

TOWN OF WATERTOWN
CIP FY 17 TO FY 21 COST ANALYSIS

			FY	COST	FY 16 PRINCIPAL	FY 16 INTEREST	FY 17 PRINCIPAL	FY 17 INTEREST	FY 18 PRINCIPAL	FY 18 INTEREST	FY 19 PRINCIPAL	FY 19 INTEREST	FY 20 PRINCIPAL	FY 20 INTEREST	FY 21 PRINCIPAL	FY 21 INTEREST
AUTHORIZED UNISSUED DEBT																
5 A	MICROWAVE LINK POL&FIRE	BE	13	$ 43,700	$ 11,700	$ 1,967	$ 8,000	$ 1,440	$ 8,000	$ 1,080	$ 8,000	$ 720	$ 8,000	$ 360	$ -	$ -
5 A	POLICE COMPUTERS	BE	13	$ 67,300	$ 19,300	$ 3,029	$ 12,000	$ 2,160	$ 12,000	$ 1,620	$ 12,000	$ 1,080	$ 12,000	$ 540	$ -	$ -
5 A	DUMP TRUCK 55000 GVW	BE	13	$ 160,000	$ 35,000	$ 7,200	$ 35,000	$ 5,625	$ 30,000	$ 4,050	$ 30,000	$ 2,700	$ 30,000	$ 1,350	$ -	$ -
5 A	TRUCK DUMP 41000 GVW	BE	14	$ 152,000	$ 32,000	$ 6,840	$ 30,000	$ 5,400	$ 30,000	$ 4,050	$ 30,000	$ 2,700	$ 30,000	$ 1,350	$ -	$ -
5 A	CREW TRUCK	BE	14	$ 120,000	$ 25,000	$ 5,400	$ 25,000	$ 4,275	$ 25,000	$ 3,150	$ 25,000	$ 2,025	$ 20,000	$ 900	$ -	$ -
10 A	DEICING SNOW FIGHTER	BE	14	$ 230,000	$ 23,000	$ 10,350	$ 23,000	$ 9,315	$ 23,000	$ 8,280	$ 23,000	$ 7,245	$ 23,000	$ 6,210	$ 23,000	$ 5,175
10 A	TOWN HALL & NORTH FIRE ROOFING	BR	15	$ 262,800	$ 32,400	$ 11,826	$ 30,400	$ 10,368	$ 25,000	$ 9,000	$ 25,000	$ 7,875	$ 25,000	$ 6,750	$ 25,000	$ 5,625
5 A	LIBRARY RADIO FREQ. ID SYSTEM	BE	15	$ 65,000	$ 13,000	$ 2,925	$ 13,000	$ 2,340	$ 13,000	$ 1,755	$ 13,000	$ 1,170	$ 13,000	$ 585	$ -	$ -
5 A	CNTRL MOTORS: SERVICE PICK UP	BE	15	$ 48,000	$ 12,000	$ 2,160	$ 9,000	$ 1,620	$ 9,000	$ 1,215	$ 9,000	$ 810	$ 9,000	$ 405	$ -	$ -
5 A	CNTRL MOTORS: SUPERINT VEH.	BE	15	$ 42,000	$ 10,000	$ 1,890	$ 8,000	$ 1,440	$ 8,000	$ 1,080	$ 8,000	$ 720	$ 8,000	$ 360	$ -	$ -
10 A	HIGHWAY: 1 TON DUMP TRUCK	BE	15	$ 85,000	$ 8,500	$ 3,825	$ 8,500	$ 3,443	$ 8,500	$ 3,060	$ 8,500	$ 2,678	$ 8,500	$ 2,295	$ 8,500	$ 1,913
10 A	CEMETERY: OFFROAD DUMP TR.	BE	15	$ 92,000	$ 9,200	$ 4,140	$ 9,200	$ 3,726	$ 9,200	$ 3,312	$ 9,200	$ 2,898	$ 9,200	$ 2,484	$ 9,200	$ 2,070
5 A	PROP&BLDG:UNDERGROUND DUCT	BR	15	$ 300,000	$ 60,000	$ 13,500	$ 60,000	$ 10,800	$ 60,000	$ 8,100	$ 60,000	$ 5,400	$ 60,000	$ 2,700	$ -	$ -
10 A	PRKS&FRSTRY: 1 TON DUMP TR.	BE	15	$ 85,000	$ 8,500	$ 3,825	$ 8,500	$ 3,443	$ 8,500	$ 3,060	$ 8,500	$ 2,678	$ 8,500	$ 2,295	$ 8,500	$ 1,913
10 A	PRKS&FRSTRY: TREE CHIPPER	BE	15	$ 74,000	$ 7,400	$ 3,330	$ 7,400	$ 2,997	$ 7,400	$ 2,664	$ 7,400	$ 2,331	$ 7,400	$ 1,998	$ 7,400	$ 1,665
5 A	AMBULANCE	BE	15	$ 235,000	$ 47,000	$ 10,575	$ 47,000	$ 8,460	$ 47,000	$ 6,345	$ 47,000	$ 4,230	$ 47,000	$ 2,115	$ -	$ -
				$ 2,061,800	$ 354,000	$ 92,781	$ 334,000	$ 76,851	$ 323,600	$ 61,821	$ 323,600	$ 47,259	$ 318,600	$ 32,697	$ 81,600	$ 18,360
5 A	HIGHWAY RECONSTR	STB	14	$ 2,000,000	$ 400,000	$ 72,000	$ 400,000	$ 54,000	$ 400,000	$ 36,000	$ 400,000	$ 18,000				
5 A	SIDEWALK RECONSTR	SWB	14	$ 500,000	$ 100,000	$ 18,000	$ 100,000	$ 13,500	$ 100,000	$ 9,000	$ 100,000	$ 4,500				
5 A	HIGHWAY RECONSTR	STB	15	$ 2,000,000	$ 400,000	$ 90,000	$ 400,000	$ 72,000	$ 400,000	$ 54,000	$ 400,000	$ 36,000	$ 400,000	$ 18,000		
5 A	SIDEWALK RECONSTR	SWB	15	$ 500,000	$ 100,000	$ 22,500	$ 100,000	$ 18,000	$ 100,000	$ 13,500	$ 100,000	$ 9,000	$ 100,000	$ 4,500		
				$ 5,000,000	$ 1,000,000	$ 202,500	$ 1,000,000	$ 157,500	$ 1,000,000	$ 112,500	$ 1,000,000	$ 67,500	$ 500,000	$ 22,500	$ -	$ -
15 A	MIDDLE: 2ND & 3RD FL FLOORING	BR	15	$ 175,000	$ 22,500	$ 7,875	$ 22,500	$ 6,863	$ 10,000	$ 5,850	$ 10,000	$ 5,400	$ 10,000	$ 4,950	$ 10,000	$ 4,500
20 A	HOSMER: UNIT VENTILATORS	BR	15	$ 595,000	$ 32,500	$ 26,775	$ 30,000	$ 25,313	$ 30,000	$ 23,963	$ 30,000	$ 22,613	$ 30,000	$ 21,263	$ 30,000	$ 19,913
5 A	MIDDLE: WINDOW DESIGN	BR	16	$ 224,400			$ 44,880	$ 10,098	$ 44,880	$ 8,078	$ 44,880	$ 6,059	$ 44,880	$ 4,039	$ 44,880	$ 2,020
				$ 994,400	$ 55,000	$ 34,650	$ 52,500	$ 32,175	$ 84,880	$ 29,813	$ 84,880	$ 28,013	$ 84,880	$ 26,213	$ 40,000	$ 28,452
PLANNED DEBT																
10	ADMINISTRATION BLDG RENOV.	BR	13	$ 852,000	$ 87,000	$ 38,340	$ 85,000	$ 34,425	$ 85,000	$ 30,600	$ 85,000	$ 26,775	$ 85,000	$ 22,950	$ 85,000	$ 19,125
20	RENOVATIONS AT FIRE STATIONS	BR	13	$ 500,000	$ 25,000	$ 22,500	$ 25,000	$ 21,375	$ 25,000	$ 20,250	$ 25,000	$ 19,125	$ 25,000	$ 18,000	$ 25,000	$ 16,875
10	LIBRARY SLATE ROOF	BR	13	$ 225,000	$ 22,500	$ 10,125	$ 22,500	$ 9,113	$ 22,500	$ 8,100	$ 22,500	$ 7,088	$ 22,500	$ 6,075	$ 22,500	$ 5,063
10	LIBRARY BLDG UPDATES	BR	13	$ 100,000	$ 10,000	$ 4,500	$ 10,000	$ 4,050	$ 10,000	$ 3,600	$ 10,000	$ 3,150	$ 10,000	$ 2,700	$ 10,000	$ 2,250
10	LIBRARY BLDG UPDATES	BR	14	$ 100,000	$ 10,000	$ 4,500	$ 10,000	$ 4,050	$ 10,000	$ 3,600	$ 10,000	$ 3,150	$ 10,000	$ 2,700	$ 10,000	$ 2,250
5	SKATING ARENA SCOREBOARD	BE	14	$ 15,000	$ 3,000	$ 675	$ 3,000	$ 540	$ 3,000	$ 405	$ 3,000	$ 270	$ 3,000	$ 135	$ -	$ -
5	SKATING ARENA EXITS	BR	14	$ 19,000	$ 4,000	$ 855	$ 4,000	$ 675	$ 4,000	$ 495	$ 4,000	$ 315	$ 3,000	$ 135	$ -	$ -
10	FILLIPELLO PARK/GROVE ST	BR	15	$ 600,000	$ 60,000	$ 27,000	$ 60,000	$ 24,300	$ 60,000	$ 21,600	$ 60,000	$ 18,900	$ 60,000	$ 16,200	$ 60,000	$ 13,500
				$ 2,411,000	$ 221,500	$ 108,495	$ 219,500	$ 98,528	$ 219,500	$ 88,650	$ 219,500	$ 78,773	$ 218,500	$ 68,895	$ 212,500	$ 59,063
10	HOSMER: PRE-SCHOOL ENTRANCE	BR	15	$ 145,000	$ 14,500	$ 6,525	$ 14,500	$ 5,873	$ 14,500	$ 5,220	$ 14,500	$ 4,568	$ 14,500	$ 3,915	$ 14,500	$ 3,263
				$ 145,000	$ 14,500	$ 6,525	$ 14,500	$ 5,873	$ 14,500	$ 5,220	$ 14,500	$ 4,568	$ 14,500	$ 3,915	$ 14,500	$ 3,263
20	EAST FIRE STATION RENOV.	BR	16	$ 180,000			$ 9,000	$ 8,100	$ 9,000	$ 7,695	$ 9,000	$ 7,290	$ 9,000	$ 6,885	$ 9,000	$ 6,480
20	NORTH FIRE STATION RENOV.	BR	16	$ 145,000			$ 7,250	$ 6,525	$ 7,250	$ 6,199	$ 7,250	$ 5,873	$ 7,250	$ 5,546	$ 7,250	$ 5,220
5	TACTICAL BULLET PROOF VESTS (6)	BE	16	$ 12,600			$ 2,520	$ 567	$ 2,520	$ 454	$ 2,520	$ 340	$ 2,520	$ 227	$ 2,520	$ 113
5	LIVE SCAN FINGERPRINTING SYST.	BE	16	$ 32,000			$ 6,400	$ 1,440	$ 6,400	$ 1,152	$ 6,400	$ 864	$ 6,400	$ 576	$ 6,400	$ 288
5	POWER SUPPLY FOR BLDG	BE	16	$ 33,100			$ 6,620	$ 1,490	$ 6,620	$ 1,192	$ 6,620	$ 894	$ 6,620	$ 596	$ 6,620	$ 298
5	REPL BLDG ACCESS VIDEO SERV.	BE	16	$ 26,500			$ 5,300	$ 1,193	$ 5,300	$ 954	$ 5,300	$ 716	$ 5,300	$ 477	$ 5,300	$ 239
10	TOWN HALL EMERG GENERATOR	BE	16	$ 150,000			$ 15,000	$ 6,750	$ 15,000	$ 6,075	$ 15,000	$ 5,400	$ 15,000	$ 4,725	$ 15,000	$ 4,050
10	CNTRL MOTORS: SERVICE TRUCK	BE	16	$ 145,000			$ 14,500	$ 6,525	$ 14,500	$ 5,873	$ 14,500	$ 5,220	$ 14,500	$ 4,568	$ 14,500	$ 3,915
10	CNTRL MOTORS: HYDRAULIC LIFTS	BE	16	$ 63,000			$ 12,600	$ 2,835	$ 12,600	$ 2,268	$ 12,600	$ 1,701	$ 12,600	$ 1,134	$ 12,600	$ 567
10	HIGHWAY: HOT BOX ASPHALT	BE	16	$ 260,000			$ 26,000	$ 11,700	$ 26,000	$ 10,530	$ 26,000	$ 9,360	$ 26,000	$ 8,190	$ 26,000	$ 7,020
10	SNOW&ICE: SIDEWALK TRACTOR	BE	16	$ 180,000			$ 18,000	$ 8,100	$ 18,000	$ 7,290	$ 18,000	$ 6,480	$ 18,000	$ 5,670	$ 18,000	$ 4,860
10	SNOW&ICE: SALTER 6 WHEELER	BE	16	$ 230,000			$ 23,000	$ 10,350	$ 23,000	$ 9,315	$ 23,000	$ 8,280	$ 23,000	$ 7,245	$ 23,000	$ 6,210
10	CEMETERY: 1 TON DUMP TRUCK	BE	16	$ 85,000			$ 8,500	$ 3,825	$ 8,500	$ 3,443	$ 8,500	$ 3,060	$ 8,500	$ 2,678	$ 8,500	$ 2,295

TOWN OF WATERTOWN
CIP FY 17 TO FY 21 COST ANALYSIS

			FY	COST	FY 16 PRINCIPAL	FY 16 INTEREST	FY 17 PRINCIPAL	FY 17 INTEREST	FY 18 PRINCIPAL	FY 18 INTEREST	FY 19 PRINCIPAL	FY 19 INTEREST	FY 20 PRINCIPAL	FY 20 INTEREST	FY 21 PRINCIPAL	FY 21 INTEREST
10	PROP&BLDG: FORKLIFT	BE	16	$ 90,000			$ 9,000	$ 4,050	$ 9,000	$ 3,645	$ 9,000	$ 3,240	$ 9,000	$ 2,835	$ 9,000	$ 2,430
5	PROP&BLDG: SUPERVISOR PICK UP	BE	16	$ 55,000			$ 11,000	$ 2,475	$ 11,000	$ 1,980	$ 11,000	$ 1,485	$ 11,000	$ 990	$ 11,000	$ 495
10	PRKS&FRSTRY: SERVICE TRUCK	BE	16	$ 88,000			$ 8,800	$ 3,960	$ 8,800	$ 3,564	$ 8,800	$ 3,168	$ 8,800	$ 2,772	$ 8,800	$ 2,376
10	DESIGN MOXLEY CTS RENOV/LIGHTS	BR	16	$ 100,000			$ 10,000	$ 4,500	$ 10,000	$ 4,050	$ 10,000	$ 3,600	$ 10,000	$ 3,150	$ 10,000	$ 2,700
10	MOXLEY COURTS RENOV/LIGHTS	BR	16	$ 800,000			$ 80,000	$ 36,000	$ 80,000	$ 32,400	$ 80,000	$ 28,800	$ 80,000	$ 25,200	$ 80,000	$ 21,600
5	CONTROL LINK RETROFIT	BR	16	$ 100,000			$ 10,000	$ 4,500	$ 10,000	$ 4,050	$ 10,000	$ 3,600	$ 10,000	$ 3,150	$ 10,000	$ 2,700
				$ 2,775,200	$ -	$ -	$ 283,490	$ 124,884	$ 283,490	$ 112,127	$ 283,490	$ 99,370	$ 283,490	$ 86,613	$ 283,490	$ 73,856
5	HIGHWAY RECONSTR	STB	16	$ 2,000,000			$ 400,000	$ 90,000	$ 400,000	$ 72,000	$ 400,000	$ 54,000	$ 400,000	$ 36,000	$ 400,000	$ 18,000
5	SIDEWALK RECONSTR	SWB	16	$ 500,000			$ 100,000	$ 22,500	$ 100,000	$ 18,000	$ 100,000	$ 13,500	$ 100,000	$ 9,000	$ 100,000	$ 4,500
				$ 2,500,000	$ -	$ -	$ 500,000	$ 112,500	$ 500,000	$ 90,000	$ 500,000	$ 67,500	$ 500,000	$ 45,000	$ 500,000	$ 22,500
10	HOSMER:SIDEWLK REPL/STRS RPR	BR	16	$ 75,000			$ 7,500	$ 3,375	$ 7,500	$ 3,038	$ 7,500	$ 2,700	$ 7,500	$ 2,363	$ 7,500	$ 2,025
5	MIDDLE: RENOVATE SCIENCE LABS	BE	16	$ 75,000			$ 15,000	$ 3,375	$ 15,000	$ 2,700	$ 15,000	$ 2,025	$ 15,000	$ 1,350	$ 15,000	$ 675
				$ 150,000	$ -	$ -	$ 22,500	$ 6,750	$ 22,500	$ 5,738	$ 22,500	$ 4,725	$ 22,500	$ 3,713	$ 22,500	$ 2,700
5	GIS	BE	17	$ 50,000					$ 10,000	$ 2,250	$ 10,000	$ 1,800	$ 10,000	$ 1,350	$ 10,000	$ 900
5	LIBRARY INTERACTIVE TECH.	BE	17	$ 30,000					$ 6,000	$ 1,350	$ 6,000	$ 1,080	$ 6,000	$ 810	$ 6,000	$ 540
5	INC. STORAGE CAP OF VIDEO RET.	BE	17	$ 159,600					$ 31,920	$ 7,182	$ 31,920	$ 5,746	$ 31,920	$ 4,309	$ 31,920	$ 2,873
5	CM: DIAGNOSTIC TOOLS & COMP.	BE	17	$ 55,000					$ 11,000	$ 2,475	$ 11,000	$ 1,980	$ 11,000	$ 1,485	$ 11,000	$ 990
10	HIGHWAY: TRIAXLE DUMP TRUCK	BE	17	$ 260,000					$ 26,000	$ 11,700	$ 26,000	$ 10,530	$ 26,000	$ 9,360	$ 26,000	$ 8,190
5	HIGHWAY: SUPEVISOR PICK UP	BE	17	$ 60,000					$ 12,000	$ 2,700	$ 12,000	$ 2,160	$ 12,000	$ 1,620	$ 12,000	$ 1,080
10	HIGHWAY: SWEEPER	BE	17	$ 230,000					$ 23,000	$ 10,350	$ 23,000	$ 9,315	$ 23,000	$ 8,280	$ 23,000	$ 7,245
10	HIGHWAY: BACKHOE	BE	17	$ 232,000					$ 23,200	$ 10,440	$ 23,200	$ 9,396	$ 23,200	$ 8,352	$ 23,200	$ 7,308
10	SNOW&ICE: SALTER 6 WHEELER	BE	17	$ 235,000					$ 23,500	$ 10,575	$ 23,500	$ 9,518	$ 23,500	$ 8,460	$ 23,500	$ 7,403
10	SNOW&ICE: BLOWER ATTACHMENT	BE	17	$ 205,000					$ 20,500	$ 9,225	$ 20,500	$ 8,303	$ 20,500	$ 7,380	$ 20,500	$ 6,458
10	CEMETERY: BACKHOE	BE	17	$ 232,000					$ 23,200	$ 10,440	$ 23,200	$ 9,396	$ 23,200	$ 8,352	$ 23,200	$ 7,308
5	PROP&BLDG:UNDERGROUND DUCT	BR	17	$ 300,000					$ 60,000	$ 13,500	$ 60,000	$ 10,800	$ 60,000	$ 8,100	$ 60,000	$ 5,400
5	PROP&BLDG:WIRE SUPRVR PICK UP	BE	17	$ 57,000					$ 11,400	$ 2,565	$ 11,400	$ 2,052	$ 11,400	$ 1,539	$ 11,400	$ 1,026
10	1 TON DUMP TRUCKER	BE	17	$ 85,000					$ 8,500	$ 3,825	$ 8,500	$ 3,443	$ 8,500	$ 3,060	$ 8,500	$ 2,678
5	PRKS&FRSTRY: SUPERVSR PICK UP	BE	17	$ 60,000					$ 12,000	$ 2,700	$ 12,000	$ 2,160	$ 12,000	$ 1,620	$ 12,000	$ 1,080
5	PRKS&FRSTRY: INFIELD GROOMER	BE	17	$ 22,000					$ 4,400	$ 990	$ 4,400	$ 792	$ 4,400	$ 594	$ 4,400	$ 396
10	VICTORY TRACK, FIELD & CRT RENO	BR	17	$ 3,000,000					$ 300,000	$ 135,000	$ 300,000	$ 121,500	$ 300,000	$ 108,000	$ 300,000	$ 94,500
10	DESIGN OF CASEY PARK RENOV.	BR	17	$ 100,000					$ 10,000	$ 4,500	$ 10,000	$ 4,050	$ 10,000	$ 3,600	$ 10,000	$ 3,150
10	CASEY PARK RENOV, LIGHTS/SCBRD	BR	17	$ 850,000					$ 85,000	$ 38,250	$ 85,000	$ 34,425	$ 85,000	$ 30,600	$ 85,000	$ 26,775
10	DOOR REPLACEMENT	BR	17	$ 55,000					$ 5,500	$ 2,475	$ 5,500	$ 2,228	$ 5,500	$ 1,980	$ 5,500	$ 1,733
5	UPGRADE RINK LIGHTS	BR	17	$ 25,000					$ 5,000	$ 1,125	$ 5,000	$ 900	$ 5,000	675	$ 5,000	$ 450
				$ 6,302,600	$ -	$ -	$ -	$ -	$ 712,120	$ 283,617	$ 712,120	$ 251,572	$ 712,120	$ 219,526	$ 712,120	$ 187,481
10	COMMON ST PROJECT	STB	17	$ 975,000					$ 97,500	$ 43,875	$ 97,500	$ 39,488	$ 97,500	$ 35,100	$ 97,500	$ 30,713
5	HIGHWAY RECONSTR	STB	17	$ 2,000,000					$ 400,000	$ 90,000	$ 400,000	$ 72,000	$ 400,000	$ 54,000	$ 400,000	$ 36,000
5	SIDEWALK RECONSTR	SWB	17	$ 500,000					$ 100,000	$ 22,500	$ 100,000	$ 18,000	$ 100,000	$ 13,500	$ 100,000	$ 9,000
				$ 3,475,000	$ -	$ -	$ -	$ -	$ 597,500	$ 156,375	$ 597,500	$ 129,488	$ 597,500	$ 102,600	$ 597,500	$ 75,713
5	LOWELL: REPLACE BLDG CARPET	BR	17	$ 122,000					$ 24,400	$ 5,490	$ 24,400	$ 4,392	$ 24,400	$ 3,294	$ 24,400	$ 2,196
15	MIDDLE: REPL SCIENCE LABS EQP	BE	17	$ 75,000					$ 5,000	$ 3,375	$ 5,000	$ 3,150	$ 5,000	$ 2,925	$ 5,000	$ 2,700
				$ 197,000	$ -	$ -	$ -	$ -	$ 29,400	$ 8,865	$ 29,400	$ 7,542	$ 29,400	$ 6,219	$ 29,400	$ 4,896
5	AMBULANCE	BE	18	$ 245,000							$ 49,000	$ 11,025	$ 49,000	$ 8,820	$ 49,000	$ 6,615
15	PUMPER TRUCK REPLACEMENT	BE	18	$ 550,000							$ 38,000	$ 24,750	$ 38,000	$ 23,040	$ 37,000	$ 21,330
10	LIBRARY REPLACE BOILER	BR	18	$ 20,000							$ 2,000	$ 900	$ 2,000	$ 810	$ 2,000	$ 720
5	INC. STORAGE CAP OF VIDEO RET.	BE	18	$ 102,000							$ 21,000	$ 4,590	$ 21,000	$ 3,645	$ 20,000	$ 2,700
10	CM: FUEL MANAGEMENT SYSTEM	BE	18	$ 60,000							$ 6,000	$ 2,700	$ 6,000	$ 2,430	$ 6,000	$ 2,160
10	HIGHWAY: 6 WHEEL DUMP TRUCK	BE	18	$ 233,000							$ 23,300	$ 10,485	$ 23,300	$ 9,437	$ 23,300	$ 8,388
10	HIGHWAY: FRONT END LOADER	BE	18	$ 230,000							$ 23,000	$ 10,350	$ 23,000	$ 9,315	$ 23,000	$ 8,280
10	SNOW&ICE: SIDEWALK TRACTOR	BE	18	$ 185,000							$ 18,500	$ 8,325	$ 18,500	$ 7,493	$ 18,500	$ 6,660
10	SNOW&ICE: SALTER 6 WHEELER	BE	18	$ 240,000							$ 24,000	$ 10,800	$ 24,000	$ 9,720	$ 24,000	$ 8,640
10	SNOW&ICE: 4X4 6 WHEELER	BE	18	$ 260,000							$ 26,000	$ 11,700	$ 26,000	$ 10,530	$ 26,000	$ 9,360

TOWN OF WATERTOWN
CIP FY 17 TO FY 21 COST ANALYSIS

			FY	COST	FY 16 PRINCIPAL	FY 16 INTEREST	FY 17 PRINCIPAL	FY 17 INTEREST	FY 18 PRINCIPAL	FY 18 INTEREST	FY 19 PRINCIPAL	FY 19 INTEREST	FY 20 PRINCIPAL	FY 20 INTEREST	FY 21 PRINCIPAL	FY 21 INTEREST
10	CEMETERY: LOADER BLOWER ATTCI	BE	18	$ 105,000							$ 10,500	$ 4,725	$ 10,500	$ 4,253	$ 10,500	$ 3,780
10	PROP&BLDG:BUCKET TRUCK	BE	18	$ 165,000							$ 16,500	$ 7,425	$ 16,500	$ 6,683	$ 16,500	$ 5,940
10	PROP&BLDG: SIGN TRUCK	BE	18	$ 90,000							$ 9,000	$ 4,050	$ 9,000	$ 3,645	$ 9,000	$ 3,240
5	PRKS&FRSTRY: TRACTOR FARM	BE	18	$ 75,000							$ 15,000	$ 3,375	$ 15,000	$ 2,700	$ 15,000	$ 2,025
10	PRKS&FRSTRY: TREE TRUCK	BE	18	$ 240,000							$ 24,000	$ 10,800	$ 24,000	$ 9,720	$ 24,000	$ 8,640
10	CUNNIFF COURT & FIELD RENOV	BR	18	$ 750,000							$ 75,000	$ 33,750	$ 75,000	$ 30,375	$ 75,000	$ 27,000
10	FILIPPELLO LIGHTS & SCOREBOARD	BR	18	$ 525,000							$ 52,500	$ 23,625	$ 52,500	$ 21,263	$ 52,500	$ 18,900
10	ARSENAL PARK: TOT LOT RESURF	BR	18	$ 100,000							$ 10,000	$ 4,500	$ 10,000	$ 4,050	$ 10,000	$ 3,600
5	EMERGENCY LIGHTING REPLACEMEI	BE	18	$ 15,000							$ 3,000	$ 675	$ 3,000	$ 540	$ 3,000	$ 405
5	SECURITY & SURVEILLANCE SYS	BE	18	$ 25,000							$ 5,000	$ 1,125	$ 5,000	$ 900	$ 5,000	$ 675
5	ENEERGY MANAGEMENT SYSTEM	BE	18	$ 40,000							$ 8,000	$ 1,800	$ 8,000	$ 1,440	$ 8,000	$ 1,080
10	DESIGN LOBBY RENOVATION	BR	18	$ 75,000							$ 7,500	$ 3,375	$ 7,500	$ 3,038	$ 7,500	$ 2,700
				$ 4,330,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 466,800	$ 194,850	$ 466,800	$ 173,844	$ 464,800	$ 152,838
5	HIGHWAY RECONSTR	STB	18	$ 2,000,000							$ 400,000	$ 90,000	$ 400,000	$ 72,000	$ 400,000	$ 54,000
5	SIDEWALK RECONSTR	SWB	18	$ 500,000							$ 100,000	$ 22,500	$ 100,000	$ 18,000	$ 100,000	$ 13,500
				$ 2,500,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 500,000	$ 112,500	$ 500,000	$ 90,000	$ 500,000	$ 67,500
5	LOWELL: REPLACE BLDG CARPET	BR	18	$ 97,000							$ 19,400	$ 4,365	$ 19,400	$ 3,492	$ 19,400	$ 2,619
15	MIDDLE: REPLACE WINDOWS	BR	18	$ 1,545,000							$ 103,000	$ 69,525	$ 103,000	$ 64,890	$ 103,000	$ 60,255
15	PHILLIPS: EMERGENCY GENERATOR	BR	18	$ 125,000							$ 8,400	$ 5,625	$ 8,400	$ 5,247	$ 8,400	$ 4,869
				$ 1,767,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 130,800	$ 79,515	$ 130,800	$ 73,629	$ 130,800	$ 67,743
5	REPLACE MOBILE DATA SYSTEM	BE	19	$ 174,200									$ 34,840	$ 7,839	$ 34,840	$ 6,271
5	INC. STORAGE CAP OF VIDEO RET.	BE	19	$ 54,100									$ 10,820	$ 2,435	$ 10,820	$ 1,948
5	IN CRUISER VIDEO SYSTEM	BE	19	$ 54,300									$ 10,860	$ 2,444	$ 10,860	$ 1,955
10	HIGHWAY: SKID STEER	BE	19	$ 65,000									$ 6,500	$ 2,925	$ 6,500	$ 2,633
10	HIGHWAY: DUMP TRUCK 55000 GVW	BE	19	$ 220,000									$ 22,000	$ 9,900	$ 22,000	$ 8,910
10	SNOW&ICE: SALTER 6 WHEELER	BE	19	$ 245,000									$ 24,500	$ 11,025	$ 24,500	$ 9,923
10	SNOW&ICE:COMBO BODY 6 WHEELE	BE	19	$ 230,000									$ 23,000	$ 10,350	$ 23,000	$ 9,315
10	SNOW&ICE:COMBO BODY 6 WHEELE	BE	19	$ 230,000									$ 23,000	$ 10,350	$ 23,000	$ 9,315
10	CEMETERY: OFF ROAD UTILITY VEH	BE	19	$ 30,000									$ 3,000	$ 1,350	$ 3,000	$ 1,215
5	PROP&BLDG:UNDERGROUND DUCT	BR	19	$ 300,000									$ 60,000	$ 13,500	$ 60,000	$ 10,800
5	PRKS&FRSTRY: INFIELD GROOMER	BE	19	$ 24,000									$ 4,800	$ 1,080	$ 4,800	$ 864
10	SALTONSTALL TOT LOT RESURF	BR	19	$ 90,000									$ 9,000	$ 4,050	$ 9,000	$ 3,645
10	SALTONSTALL COURT, PARKING LGT	BR	19	$ 300,000									$ 30,000	$ 13,500	$ 30,000	$ 12,150
5	SENIOR SHUTTLE BUS	BE	19	$ 115,000									$ 23,000	$ 5,175	$ 23,000	$ 4,140
20	RINK LOBBY EXPANSION & 2ND FL	BR	19	$ 1,750,000									$ 87,500	$ 78,750	$ 87,500	$ 74,813
20	REPLACEMENT OF STANDS (ADA)	BR	19	$ 150,000									$ 7,500	$ 6,750	$ 7,500	$ 6,413
10	ELECTRIC ICE RESURF MACH	BE	19	$ 120,000									$ 12,000	$ 5,400	$ 12,000	$ 4,860
				$ 4,151,600	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 392,320	$ 186,822	$ 392,320	$ 169,168
5	HIGHWAY RECONSTR	STB	19	$ 2,000,000									$ 400,000	$ 90,000	$ 400,000	$ 72,000
5	SIDEWALK RECONSTR	SWB	19	$ 500,000									$ 100,000	$ 22,500	$ 100,000	$ 18,000
				$ 2,500,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 500,000	$ 112,500	$ 500,000	$ 90,000
15	MIDDLE: REPLACE BOILERS	BR	19	$ 1,200,000									$ 80,000	$ 54,000	$ 80,000	$ 50,400
				$ 1,200,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 80,000	$ 54,000	$ 80,000	$ 50,400
5	GIS	BE	20	$ 50,000											$ 10,000	$ 2,250
5	FIRE: REPLACE TURNOUT GEAR	BE	20	$ 195,000											$ 39,000	$ 8,775
5	REPLACE DEPUTY CHIEF VEHICLE	BE	20	$ 55,000											$ 11,000	$ 2,475
10	HIGHWAY SERVICE FLAT BED	BE	20	$ 85,000											$ 8,500	$ 3,825
10	SNOW&ICE: SALTER 6 WHEELER	BE	20	$ 250,000											$ 25,000	$ 11,250
10	LOADER	BE	20	$ 300,000											$ 30,000	$ 13,500
10	TRIAXLEDUMP TRUCK	BE	20	$ 247,000											$ 24,700	$ 11,115
10	CEMETERY: OFF ROAD UTILITY VEH	BE	20	$ 30,000											$ 3,000	$ 1,350
10	PROP&BLDG ROUGH TER FORKLIFT	BE	20	$ 95,000											$ 9,500	$ 4,275

TOWN OF WATERTOWN
CIP FY 17 TO FY 21 COST ANALYSIS

			FY	COST	FY 16 PRINCIPAL	FY 16 INTEREST	FY 17 PRINCIPAL	FY 17 INTEREST	FY 18 PRINCIPAL	FY 18 INTEREST	FY 19 PRINCIPAL	FY 19 INTEREST	FY 20 PRINCIPAL	FY 20 INTEREST	FY 21 PRINCIPAL	FY 21 INTEREST
10	PRKS&FRSTRY: SWAP LOADER	BE	20	$ 180,000											$ 18,000	$ 8,100
10	ARSENAL PK: COURT, PARKING LGH	BR	20	$ 500,000											$ 50,000	$ 22,500
10	SULLVAN: TOT LOT & COURT RESUR	BR	20	$ 90,000											$ 9,000	$ 4,050
				$ 2,077,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 237,700	$ 93,465
5	HIGHWAY RECONSTR	STB	20	$ 2,000,000											$ 400,000	$ 90,000
5	SIDEWALK RECONSTR	SWB	20	$ 500,000											$ 100,000	$ 22,500
				$ 2,500,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 500,000	$ 112,500
15	HS: REPLACE EMERGENCY GEN	BR	20	$ 250,000											$ 17,000	$ 11,250
				$ 250,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 17,000	$ 11,250
	TOTAL				$ 1,645,000	$ 444,951	$ 2,426,490	$ 615,060	$ 3,787,490	$ 954,725	$ 4,885,090	$ 1,173,173	$ 5,351,410	$ 1,308,685	$ 5,316,230	$ 1,291,145
					$ 2,089,951		$ 3,041,550		$ 4,742,215		$ 6,058,263		$ 6,660,095		$ 6,607,375	
					FY 16 PRINCIPAL	FY 16 INTEREST	FY 17 PRINCIPAL	FY 17 INTEREST	FY 18 PRINCIPAL	FY 18 INTEREST	FY 19 PRINCIPAL	FY 19 INTEREST	FY 20 PRINCIPAL	FY 20 INTEREST	FY 21 PRINCIPAL	FY 21 INTEREST
	PERMANENT DEBT				$ 4,632,000	$ 1,153,434	$ 4,213,000	$ 1,040,183	$ 4,029,000	$ 925,472	$ 2,335,000	$ 817,377	$ 2,310,000	$ 721,502	$ 2,225,000	$ 623,927
	AUTHORIZED UNISSUED DEBT				$ 1,409,000	$ 329,931	$ 1,386,500	$ 266,526	$ 1,408,480	$ 204,134	$ 1,408,480	$ 142,772	$ 903,480	$ 81,410	$ 121,600	$ 46,812
	FY16-FY21 (PLANNED DEBT)				$ 236,000	$ 115,020	$ 1,039,990	$ 348,534	$ 2,379,010	$ 750,591	$ 3,476,610	$ 1,030,401	$ 4,447,930	$ 1,227,276	$ 5,194,630	$ 1,244,334
	TOTAL				$ 6,277,000	$ 1,598,385	$ 6,639,490	$ 1,655,243	$ 7,816,490	$ 1,880,197	$ 7,220,090	$ 1,990,550	$ 7,661,410	$ 2,030,187	$ 7,541,230	$ 1,915,072
					$ 7,875,385		$ 8,294,733		$ 9,696,687		$ 9,210,640		$ 9,691,597		$ 9,456,302	

	A	B	C	D	E	F	G	H	I	J	K	L	M
1			**TOTALS**	**FY '17**		**FY '18**		**FY '19**		**FY '20**		**FY21**	
2		**WATER/SEWER ENTERPRISE FUNDS**											
3		SEWER											
4		Drain System Rehabilitation	**3,715.0**	715.0	SR	750.0	SR	750.0	SR	750.0	SR	750.0	SR
5		MWRA I & I	**1,897.5**	247.5	SGR	412.5	SGR	412.5	SGR	412.5	SGR	412.5	SGR
6		MWRA I & I	**852.5**	302.5	MWRAB	137.5	MWRAB	137.5	MWRAB	137.5	MWRAB	137.5	MWRAB
7	10	Sewer System Study / Improvements	**3,550.0**	550.0	SEB	750.0	SEB	750.0	SEB	750.0	SEB	750.0	SEB
8	10	Mini - Crane / Service	**135.0**	135.0	SEB								
9	10	Service Response Truck	**175.0**	175.0	SEB								
10	10	35 GVW Service Truck (2)	**330.0**			160.0	SEB					170.0	SEB
11	10	Street Sweeper	**230.0**			230.0	SEB						
12	10	Heavy Crane	**185.0**					185.0	SEB				
13	10	Sewer Vac	**356.0**							356.0	SEB		
14	10	Mini - Excavator	**120.0**							120.0	SEB		
15	10	Swap Dump Truck	**190.0**							190.0	SEB		
16													
17		SEWER SUBTOTAL	**11,736.0**	**2,125.0**		**2,440.0**		**2,235.0**		**2,716.0**		**2,220.0**	
18													
19		WATER											
20		Water system improvements	**975.0**	175.0	WR	200.0	WR	200.0	WR	200.0	WR	200.0	WR
21	10	MWRA LWSAP	**2,500.0**	500.0	MWRAB	500.0	MWRAB	500.0	MWRAB	500.0	MWRAB	500.0	MWRAB
22	10	Water Meter Replacement Program	**6,000.0**	1,500.0	WEB	1,500.0	WEB	1,500.0	WEB	1,500.0	WEB		
23	10	Commercial Water Meter Replacement Prog	**150.0**	50.0	WEB	50.0	WEB	50.0	WEB				
24	10	Trench Safety Box Truck	**160.0**					160.0	WEB				
25	10	55 GVW Dump Truck	**210.0**			210.0	WEB						
26	5	Utility Truck	**60.0**					60.0	WEB				
27	5	Utility Truck	**60.0**					60.0	WEB				
28	10	Gate Valve/Mini Vac Truck	**121.0**							121.0	WEB		
29		Service Respnse Truck	**170.0**									170.0	WEB
30		WATER SUBTOTAL	**10,406.0**	**2,225.0**		**2,460.0**		**2,530.0**		**2,321.0**		**870.0**	
31													
32		**TOTAL WATER & SEWER**	**22,142.0**	**4,350.0**		**4,900.0**		**4,765.0**		**5,037.0**		**3,090.0**	
33													
34													

	A	B	C	D	E	F	G	H	I	J	K	L	M
35		STORMWATER											
36		Phase 2 MS4 Permit Management Plan	**300.0**	300.0	TBD								
37		Phase 2 MS4 Construction/Improvements	**36,500.0**			500.0	TBD	500.0	TBD	500.0	TBD	35,000.0	TBD
38		Phase 2 MS4 Phosphorous Control Plan	**400.0**	100.0	TBD	100.0	TBD	100.0	TBD	50.0	TBD	50.0	TBD
39		STORMWATER SUBTOTAL	**37,200.0**	**400.0**		**600.0**		**600.0**		**550.0**		**35,050.0**	
40													
41		**TOT. WATER, SEWER & STORMWATER**	**59,342.0**	**4,750.0**		**5,500.0**		**5,365.0**		**5,587.0**		**38,140.0**	
42													
43		**COSTS BY SOURCE OF FUNDS**											
44	SR	SEWER REVENUE	**3,715.0**	715.0		750.0		750.0		750.0		750.0	
45	SEB	SEWER EQUIPMENT BONDS	**5,271.0**	860.0		1140.0		935.0		1,416.0		920.0	
46	TBD	TO BE DETERMINED	**37,200.0**	400.0		600.0		600.0		550.0		35,050.0	
47	MWRAB	MWRA Bond - Interest Free	**3,352.5**	802.5		637.5		637.5		637.5		637.5	
48	SGR	MWRA Grant	**1,897.5**	247.5		412.5		412.5		412.5		412.5	
49	WR	WATER REVENUE	**975.0**	175.0		200.0		200.0		200.0		200.0	
50	WEB	WATER EQUIPMENT BONDS	**6,931.0**	1,550.0		1,760.0		1,830.0		1,621.0		170.0	
51		**GRAND TOTAL - ENTERPRISE FUNDS**	**59,342.0**	**4,750.0**		**5,500.0**		**5,365.0**		**5,587.0**		**38,140.0**	

FY 2017-2021 CIP
ENTERPRISE FUND DEBT PROJECTION

	A	B	C	D	E	F	G	H
1			FY '16	FY '17	FY'18	FY'19	FY'20	FY'21
2	**SEWER PERMANENT DEBT**							
3	FY12 Bond (May 12)							
4	Prin (297,000) - MWRA		59,400	59,400	0	0	0	0
5	L/T Int		0	0	0	0	0	0
6	Subtotal		59,400	59,400	0	0	0	0
7								
8	FY14 Refunding Bond Issue (May 14)							
9	Prin (675,000) - DPW Building		66,500	67,500	67,500	67,500	67,500	67,500
10	L/T Int		23,615	22,275	20,588	18,225	15,188	11,813
11	Subtotal		90,115	89,775	88,088	85,725	82,688	79,313
12								
13	FY 15 Bond (November 15)							
14	Prin (291,500) - MWRA		0	58,300	58,300	58,300	58,300	58,300
15	L/T Int (0%)		0	0	0	0	0	0
16	Subtotal		0	58,300	58,300	58,300	58,300	58,300
17								
18	**SEWER PERMANENT DEBT**							
19	Prin		125,900	185,200	125,800	125,800	125,800	125,800
20	L/T Int		23,615	22,275	20,588	18,225	15,188	11,813
21	**TOTAL SEWER PERMANENT DEBT**		149,515	207,475	146,388	144,025	140,988	137,613
22								
23								
24	**SEWER PLANNED DEBT**							
25	FY 16 Bond (June 16)							
26	Prin (302,500) - MWRA			60,500	60,500	60,500	60,500	60,500
27	L/T Int (0%)			0	0	0	0	0
28	Subtotal			60,500	60,500	60,500	60,500	60,500
29								
30	FY16 Bond (June 16)							
31	Prin (418,000) See schedule			41,800	41,800	41,800	41,800	41,800
32	L/T Int (4.5%)			18,810	16,929	15,048	13,167	11,286
33	Subtotal			60,610	58,729	56,848	54,967	53,086
34								
35	FY 17 Bond (June 17)							
36	Prin (302,500) - MWRA				60,500	60,500	60,500	60,500
37	L/T Int (0%)				0	0	0	0
38	Subtotal				60,500	60,500	60,500	60,500
39								
40	FY17 Bond (June 17)							
41	Prin (860,000) See schedule				86,000	86,000	86,000	86,000
42	L/T Int (4.5%)				38,700	34,830	30,960	27,090
43	Subtotal				124,700	120,830	116,960	113,090

FY 2017-2021 CIP
ENTERPRISE FUND DEBT PROJECTION

	A	B	C	D	E	F	G	H
1			**FY '16**	**FY '17**	**FY'18**	**FY'19**	**FY'20**	**FY'21**
44	FY18 Bond (June 18)							
45	Prin (137,500) - MWRA					27,500	27,500	27,500
46	L/T Int (0%)					0	0	0
47	Subtotal					27,500	27,500	27,500
48								
49	FY18 Bond (June 18)							
50	Prin (1,140,000) See schedule					114,000	114,000	114,000
51	L/T Int (4.5%)					51,300	46,170	41,040
52	Subtotal					165,300	160,170	155,040
53								
54	FY19 Bond (June 19)							
55	Prin (137,500) - MWRA						27,500	27,500
56	L/T Int (0%)						0	0
57	Subtotal						27,500	27,500
58								
59	FY19 Bond (June 19)							
60	Prin (935,000) - See Schedule						93,500	93,500
61	L/T Int (4.5%)						42,075	37,868
62	Subtotal						135,575	131,368
63								
64	FY20 Bond (June 20)							
65	Prin (137,500) - MWRA							27,500
66	L/T Int (0%)							0
67	Subtotal							27,500
68								
69	FY20 Bond (June 20)							
70	Prin (1,416,000) - See Schedule							141,600
71	L/T Int (4.5%)							63,720
72	Subtotal							205,320
73								
74	**SEWER PLANNED DEBT**							
75	Prin		0	102,300	248,800	390,300	511,300	680,400
76	L/T Int		0	18,810	55,629	101,178	132,372	181,004
77	**TOTAL SEWER PLANNED DEBT**		0	121,110	304,429	491,478	643,672	861,404
78								
79								
80	**SEWER PERMANENT AND PLANNED**							
81	Prin		125,900	287,500	374,600	516,100	637,100	806,200
82	L/T Int		23,615	41,085	76,217	119,403	147,560	192,816
83	**TOTAL SEWER PERMANENT AND PLANNED**		149,515	328,585	450,817	635,503	784,660	999,016
84								

FY 2017-2021 CIP
ENTERPRISE FUND DEBT PROJECTION

	A	B	C	D	E	F	G	H
1			FY '16	FY '17	FY'18	FY'19	FY'20	FY'21
85								
86	**WATER PERMANENT DEBT**							
87	FY10 Bond (Apr 10)							
88	Prin (1,736,360) - MWRA		173,636	173,636	173,636	173,636	173,636	0
89	L/T Int		0	0	0	0	0	0
90	Subtotal		173,636	173,636	173,636	173,636	173,636	0
91								
92	FY13 Bond (June 13)							
93	Prin (1,500,000) - MWRA		150,000	150,000	150,000	150,000	150,000	150,000
94	L/T Int		0	0	0	0	0	0
95	Subtotal		150,000	150,000	150,000	150,000	150,000	150,000
96								
97	FY14 Refunding Bond Issue (May 14)							
98	Prin (675,000) - DPW Building		66,500	67,500	67,500	67,500	67,500	67,500
99	L/T Int		23,615	22,275	20,588	18,225	15,188	11,813
100	Subtotal		90,115	89,775	88,088	85,725	82,688	79,313
101								
102	FY15 Bond (August 15)							
103	Prin (900,000) MWRA LWSAP		0	50,000	50,000	50,000	50,000	50,000
104	L/T Int		0	0	0	0	0	0
105	Subtotal		0	50,000	50,000	50,000	50,000	50,000
106	**WATER PERMANENT DEBT**							
107	Prin		390,136	441,136	441,136	441,136	441,136	267,500
108	L/T Int		23,615	22,275	20,588	18,225	15,188	11,813
109	**TOTAL WATER PERMANENT DEBT**		413,751	463,411	461,724	459,361	456,324	279,313
110								
111								
112	**WATER PLANNED BOND DEBT**							
113	FY15 Bond (June 15)							
114	Prin (160,000) See Schedule		16,000	16,000	16,000	16,000	16,000	16,000
115	L/T Int (4.5.%)		7,200	6,480	5,760	5,040	4,320	3,600
116	Subtotal		23,200	22,480	21,760	21,040	20,320	19,600
117								
118	FY 16 Bond (June 16)							
119	Prin (500,000) MWRA LWSAP			50,000	50,000	50,000	50,000	50,000
120	L/T Int (0%)			0	0	0	0	0
121	Subtotal			50,000	50,000	50,000	50,000	50,000
122								
123	FY16 Bond (June 16)							
124	Prin (210,000) See Schedule			21,000	21,000	21,000	21,000	21,000
125	L/T Int (4.5.%)			9,450	8,505	7,560	6,615	6,615
126	Subtotal			30,450	29,505	28,560	27,615	27,615

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ENTERPRISE FUND DEBT PROJECTION

	A	B	C	D	E	F	G	H
1			**FY '16**	**FY '17**	**FY'18**	**FY'19**	**FY'20**	**FY'21**
127								
128	FY17 Bond (June 17)							
129	Prin (500,000) MWRA LWSAP				50,000	50,000	50,000	50,000
130	L/T Int (0%)				0	0	0	0
131	Subtotal				50,000	50,000	50,000	50,000
132								
133	FY17 Bond (June 17)							
134	Prin (1,550,000) Meter Replacement				155,000	155,000	155,000	155,000
135	L/T Int (4.5.%)				69,750	62,775	55,800	48,825
136	Subtotal				224,750	217,775	210,800	203,825
137								
138	FY18 Bond (June 18)							
139	Prin (500,000) MWRA LWSAP					50,000	50,000	50,000
140	L/T Int (0%)					0	0	0
141	Subtotal					50,000	50,000	50,000
142								
143	FY18 Bond (June 18)							
144	Prin (210,000) See Schedule					21,000	21,000	21,000
145	L/T Int (4.5.%)					9,450	8,505	7,560
146	Subtotal					30,450	29,505	28,560
147								
148	FY18 Bond (June 18)							
149	Prin (1,550,000) Meter Replacement					155,000	155,000	155,000
150	L/T Int (4.5.%)					69,750	62,775	55,800
151	Subtotal					224,750	217,775	210,800
152								
153	FY19 Bond (June 19)							
154	Prin (500,000) MWRA LWSAP						50,000	50,000
155	L/T Int (0%)						0	0
156	Subtotal						50,000	50,000
157								
158	FY19 Bond (June 19)							
159	Prin (280,000) See Schedule						40,000	40,000
160	L/T Int (4.5.%)						12,600	10,800
161	Subtotal						52,600	50,800
162								
163	FY19 Bond (June 19)							
164	Prin (1,550,000) Meter Replacement						155,000	155,000
165	L/T Int (4.5.%)						69,750	62,775
166	Subtotal						224,750	217,775
167								
168								

FY 2017-2021 CIP
ENTERPRISE FUND DEBT PROJECTION

	A	B	C	D	E	F	G	H
1			**FY '16**	**FY '17**	**FY'18**	**FY'19**	**FY'20**	**FY'21**
169	FY20 Bond (June 20)							
170	Prin (500,000) MWRA LWSAP							50,000
171	L/T Int (0%)							0
172	Subtotal							50,000
173								
174	FY20 Bond (June 20)							
175	Prin (121,000) See Schedule							12,100
176	L/T Int (4.5.%)							5,445
177	Subtotal							17,545
178								
179	FY20 Bond (June 20)							
180	Prin (1,500,000) Meter Replacement							150,000
181	L/T Int (4.5.%)							67,500
182	Subtotal							217,500
183								
184	**WATER PLANNED DEBT**							
185	Prin		16,000	87,000	292,000	518,000	763,000	975,100
186	L/T Int		7,200	15,930	84,015	154,575	220,365	268,920
187	**TOTAL WATER PLANNED DEBT**		23,200	102,930	376,015	672,575	983,365	1,244,020
188								
189								
190	**WATER PERMANENT AND PLANNED**							
191	Prin		406,136	528,136	733,136	959,136	1,204,136	1,242,600
192	L/T Int		30,815	38,205	104,603	172,800	235,553	280,733
193	**TOTAL WATER PERMANENT AND PLANNED**		436,951	566,341	837,739	1,131,936	1,439,689	1,523,333
194								
195								
196	**TOTAL WATER AND SEWER DEBT**							
197	Long Term Principal		532,036	815,636	1,107,736	1,475,236	1,841,236	2,048,800
198	Long Term Interest		54,430	79,290	180,819	292,203	383,112	473,549
199	**TOTAL WATER AND SEWER DEBT**		586,466	894,926	1,288,555	1,767,439	2,224,348	2,522,349
200								
201								
202								
203								