

# **CAPITAL BUDGET**

TOWN OF ITHACA  
5-YEAR CAPITAL IMPROVEMENT PROGRAM

2018 CAPITAL BUDGET

INFRASTRUCTURE	2017	Cost	2018	Cost	2019	Cost
WATER TANKS	Pine Tree Water Tank Replacmnt.	\$ 800,000	Ellis Hollow Water Tank Constructior	\$ 1,650,000	East King Road PRV	\$ 200,000
	SUB-TOTAL - Water Tanks	\$ -	SUB-TOTAL - Water Tanks	\$ 1,650,000	SUB-TOTAL - Water Tanks	\$ -
WATER MAINS	Sapsucker Woods Water Main	\$ 550,000	Ellis Hollow Water Main Constructior	\$ 1,100,000	Pine Tree Water Main Imprvmnts	\$ 600,000
	Christopher Circle Water Main	450,000			Winthrop Drive Water Main	600,000
	Cliff Street Water Main	850,000			Salem Dr - Winston Dr - Winston Ct	900,000
	Remove Cliff Street Pump Station	150,000				
SUB-TOTAL - Water Mains	\$ 1,000,000	SUB-TOTAL - Water Mains	\$ 1,100,000	SUB-TOTAL - Water Mains	\$ 2,100,000	
SANITARY SEWER	Sewer & Manhole Rehabilitation	\$ 300,000	Sewer & Manhole Rehabilitation	\$ 300,000	Sewer & Manhole Rehabilitation	\$ 300,000
	SJC Projects: IAWWTF Improvement Bonds	\$ 200,000	IAWWTF Improvement Bonds	\$ 250,000	IAWWTF Improvement Bonds	\$ 250,000
			Jointly Owned Interceptors	300,000		
SUB-TOTAL - Sanitary Sewer	\$ 500,000	SUB-TOTAL - Sanitary Sewer	\$ 850,000	SUB-TOTAL - Sanitary Sewer	\$ 550,000	
STORM DRAINAGE	Drainage Improvements	\$ -	Drainage Improvements	\$ -	Drainage Improvements	\$ 250,000
ROAD IMPROVEMENTS	Perry Lane - Rebuild	\$ 500,000	Perry Lane - Rebuild	\$ 650,000	Lower Bundy Road - Mill & Fill	\$ 500,000
	Culver Road - Overlay	200,000	Chase Lane - Overlay	250,000		
	Northview, Northview West, Juniper	500,000	La Grand Court - Overlay	150,000		
	SUB-TOTAL - Road Improvements	\$ 700,000	SUB-TOTAL - Road Improvements	\$ 1,050,000	SUB-TOTAL - Road Improvements	\$ 500,000
TOWN FACILITIES	PWF - Rebuild Fueling Station	\$ 500,000	PWF - Admin Office Addition	\$ 50,000	PWF - Rebuild Fueling Station	\$ 500,000
	PWF - Modify Fluids Storage Area	100,000			PWF - Truck Wash Bay	400,000
	SUB-TOTAL - Town Facilities	\$ 100,000	SUB-TOTAL - Town Facilities	\$ 50,000	SUB-TOTAL - Town Facilities	\$ 900,000
PARKS & TRAILS	South Hill Trail Culvert Repairs	\$ 135,000	South Hill Trail Culvert Repairs	\$ 50,000	South Hill Trail Culvert Repairs	\$ 135,000
	Hungerford Hgts Park Playground	50,000				
	SUB-TOTAL - Parks & Trails	\$ -	SUB-TOTAL - Parks & Trails	\$ 50,000	SUB-TOTAL - Parks & Trails	\$ 135,000
<b>TOTAL ANNUAL COSTS</b>	<b>2017 TOTAL: \$ 2,300,000</b>	<b>2018 TOTAL: \$ 4,750,000</b>	<b>2019 TOTAL: \$ 4,435,000</b>			

**Bonding Group - 2017**

Pine Tree Water Tank Replacmnt.	\$ 800,000
Sapsucker Woods Water Main	550,000
Christopher Circle Water Main	450,000
Cliff Street Water Main	850,000
Remove Cliff Street Pump Station	150,000

**Bonding Group - 2018**

Ellis Hollow Water Tank Constructior	\$ 1,650,000
Ellis Hollow Water Main Constructior	1,100,000

**Bonding Group - 2019**

Pine Tree Water Main Imprvmnts	\$ 600,000
Winthrop Drive Water Main	600,000
Salem Dr - Winston Dr - Winston Ct	900,000
PWF - Rebuild Fueling Station	500,000
PWF - Truck Wash Bay	400,000

**New Long-Term Debt - 2017: \$ 1,000,000**

**New Long-Term Debt - 2018: \$ 2,750,000**

**New Long-Term Debt - 2019: \$ 3,000,000**



TOWN OF ITHACA  
5-YEAR CAPITAL IMPROVEMENT PROGRAM

2018 CAPITAL BUDGET

INFRASTRUCTURE	2020	Cost	2021	Cost	2022	Cost
<b>WATER TANKS</b>	Pine Tree Water Tank Replacmnt.	\$ 900,000	East King Road PRV	\$ 200,000		\$ -
	SUB-TOTAL - Water Tanks	\$ 900,000	SUB-TOTAL - Water Tanks	\$ 200,000	SUB-TOTAL - Water Tanks	\$ -
<b>WATER MAINS</b>	Cliff Sreet Water Main	\$ 850,000	Renwick Heights Area Water Main	\$ 750,000	Slaterville Road Water Main - Ph. 1	\$ 850,000
	Remove Cliff Sreet Pump Station	150,000	Brandywine-Simsbury Water Main	600,000	Burleigh - Concord - Lexington	850,000
	Muriel Street Water Main	650,000				
	SUB-TOTAL - Water Mains	\$ 1,650,000	SUB-TOTAL - Water Mains	\$ 1,350,000	SUB-TOTAL - Water Mains	\$ 1,700,000
<b>SANITARY SEWER</b>	Sewer & Manhole Rehabilitation	\$ 300,000	Sewer & Manhole Rehabilitation	\$ 300,000	Sewer & Manhole Rehabilitation	\$ 300,000
	SJC Projects: IAWWTF Improvement Bonds	\$ 250,000	IAWWTF Improvement Bonds	\$ 250,000	IAWWTF Improvement Bonds	\$ 250,000
	SUB-TOTAL - Sanitary Sewer	\$ 550,000	SUB-TOTAL - Sanitary Sewer	\$ 550,000	SUB-TOTAL - Sanitary Sewer	\$ 550,000
<b>STORM DRAINAGE</b>	Drainage Improvements	\$ 250,000	Drainage Improvements	\$ 250,000	Drainage Improvements	\$ 250,000
<b>ROAD IMPROVEMENTS</b>	Sand Bank Road - Upper End	650,000	Seven Mile Drive - Overlay	\$ 250,000	King Road West	\$ 500,000
	Town Line Road - Rebuild	150,000	Compton Road - Rebuild	250,000	Birchwood, Maple, Sycamore	450,000
	Winthrop / Warren	250,000				
	SUB-TOTAL - Road Improvements	\$ 1,050,000	SUB-TOTAL - Road Improvements	\$ 500,000	SUB-TOTAL - Road Improvements	\$ 950,000
<b>TOWN FACILITIES</b>		\$ -	PWF - Admin Office Addition	\$ 600,000		\$ -
	SUB-TOTAL - Town Facilities	\$ -	SUB-TOTAL - Town Facilities	\$ 600,000	SUB-TOTAL - Town Facilities	\$ -
<b>PARKS &amp; TRAILS</b>	South Hill Trail Culvert Repairs	\$ 50,000	South Hill Trail Culvert Repairs	\$ 50,000		\$ -
	Michigan Hill Park & Trail	90,000	Iacovelli Park Playground	50,000		
	SUB-TOTAL - Parks & Trails	\$ 140,000	SUB-TOTAL - Parks & Trails	\$ 100,000	SUB-TOTAL - Parks & Trails	\$ -
<b>TOTAL ANNUAL COSTS:</b>	<b>2020 TOTAL:</b>	<b>\$ 4,540,000</b>	<b>2021 TOTAL:</b>	<b>\$ 3,550,000</b>	<b>2022 TOTAL:</b>	<b>\$ 3,450,000</b>

**Bonding Group - 2020**

Pine Tree Water Tank Replacmnt.	\$	900,000
Cliff Sreet Water Main		850,000
Remove Cliff Sreet Pump Station		150,000
Muriel Street Water Main		650,000

**Bonding Group - 2021**

Renwick Heights Area Water Main	\$	750,000
Brandywine-Simsbury Water Main		600,000
PWF - Admin Office Addition		600,000

**Bonding Group - 2022**

Slaterville Road Water Main - Ph. 1	\$	850,000
Burleigh - Concord - Lexington		850,000

<b>New Long-Term Debt - 2020:</b>	<b>\$ 2,550,000</b>	<b>New Long-Term Debt - 2021:</b>	<b>\$ 1,950,000</b>	<b>New Long-Term Debt - 2022:</b>	<b>\$ 1,700,000</b>
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**TOWN OF ITHACA  
CAPITAL ITEMS SUMMARY**

**2018 CAPITAL BUDGET**

2017 CAPITAL ITEMS	TOTAL BUDGET	ENGINEERING	HWY GARAGE	TOWN PARKS	STORMWATER	ZONING	PLANNING	HIGHWAY	WATER	SEWER
		A1440	A5132	A7110	A8540	B8010	B8020	DB5130	F8340	G8120
<b>REPLACEMENT EQUIPMENT</b>										
Staff Vehicle - Eng.	32,000	-	-	6,400	1,600	-	-	16,000	4,800	3,200
Highway Truck w/Plow	260,000	-	-	52,000	13,000	-	-	130,000	39,000	26,000
Med-Duty Pickup Truck	35,000	-	-	7,000	1,750	-	-	17,500	5,250	3,500
Wheeled Excavator	385,000	-	-	77,000	19,250	-	-	192,500	57,750	38,500
Roller	40,000	-	-	8,000	2,000	-	-	20,000	6,000	4,000
Turf Mower w/Deck	16,500	-	-	3,300	825	-	-	8,250	2,475	1,650
Equipment Trailer	7,500	-	-	1,500	375	-	-	3,750	1,125	750
Pipe Hauling Trailer	7,500	-	-	1,500	375	-	-	3,750	1,125	750
<b>Sub-Total - Replacements</b>	<b>783,500</b>	-	-	<b>156,700</b>	<b>39,175</b>	-	-	<b>391,750</b>	<b>117,525</b>	<b>78,350</b>
<b>NEW EQUIPMENT</b>										
Staff/Inspection Vehicle	32,000	-	-	-	-	32,000	-	-	-	-
<b>Sub-Total - New Items</b>	<b>32,000</b>	-	-	-	-	<b>32,000</b>	-	-	-	-
<b>TOTAL - CAPITAL ITEMS</b>	<b>815,500</b>	-	-	<b>156,700</b>	<b>39,175</b>	<b>32,000</b>	-	<b>391,750</b>	<b>117,525</b>	<b>78,350</b>

2018 CAPITAL ITEMS	TOTAL BUDGET	ENGINEERING	HWY GARAGE	TOWN PARKS	STORMWATER	ZONING	PLANNING	HIGHWAY	WATER	SEWER
		A1440	A5132	A7110	A8540	B8010	B8020	DA/DB5130	F8340	G8120
<b>REPLACEMENT EQUIPMENT</b>										
Staff Vehicle - Codes	32,000	-	-	-	-	32,000	-	-	-	-
Staff Vehicle - P.W.	40,000	-	-	8,000	2,000	-	-	20,000	6,000	4,000
Leaf-Packer Truck	150,000	-	-	30,000	7,500	-	-	75,000	22,500	15,000
Light-Duty Dump Truck	65,000	-	-	13,000	3,250	-	-	32,500	9,750	6,500
Med-Duty Pickup Truck	45,000	-	-	9,000	2,250	-	-	22,500	6,750	4,500
Turf Mower w/Deck	17,000	-	-	3,400	850	-	-	8,500	2,550	1,700
Vibratory Roller	155,000	-	-	31,000	7,750	-	-	77,500	23,250	15,500
<b>Sub-Total - Replacements</b>	<b>504,000</b>	-	-	<b>94,400</b>	<b>23,600</b>	<b>32,000</b>	-	<b>236,000</b>	<b>70,800</b>	<b>47,200</b>
<b>NEW EQUIPMENT</b>										
Highway Truck w/Plow	250,000	-	-	50,000	12,500	-	-	125,000	37,500	25,000
<b>Sub-Total - New Items</b>	<b>250,000</b>	-	-	<b>50,000</b>	<b>12,500</b>	-	-	<b>125,000</b>	<b>37,500</b>	<b>25,000</b>
<b>TOTAL - CAPITAL ITEMS</b>	<b>754,000</b>	-	-	<b>144,400</b>	<b>36,100</b>	<b>32,000</b>	-	<b>361,000</b>	<b>108,300</b>	<b>72,200</b>

Does not include Information Technology Capital Items.

**TOWN OF ITHACA**  
**2018 CAPITAL BUDGET**

As part of the Fiscal Year 2018 budget process, Town staff has prepared this report on the 2018 Capital Budget for use by the Town Board as we work toward adopting the 2018 Ithaca Town Budget. The Capital Budget includes both capital projects to be constructed and capital equipment items to be replaced/purchased that together represent a significant portion of the Town's annual expenditures.

This report is being presented to the Town Board to facilitate discussion related to (1) the Town's Capital Improvement Program for projects to be constructed during Fiscal Years 2018 - 2022; and (2) the replacement of capital equipment as identified in the Capital Equipment Replacement Summary for this same period. This report is presented in four sections:

1. Five-Year Capital Improvement Program - A schedule of capital projects currently proposed to be constructed during Fiscal Years 2018 - 2022. This schedule includes the estimated cost of each project, and the total estimated amount to be financed by issuing new long-term debt for each year.
2. Fiscal Year 2018 Capital Project Descriptions - A listing of those capital projects currently scheduled for construction in Fiscal Year 2018 with a description of each project.
3. Five-Year Capital Equipment Replacement Summary - A schedule of capital equipment (vehicles and other equipment) currently proposed to be replaced/purchased during Fiscal Years 2018 - 2022. This schedule includes the estimated cost of each item (Pages 6 and 7), and the breakdown of the estimated cost between the various funds for each year (Page 8).
4. Fiscal Year 2018 Capital Equipment Replacement Summary - A schedule of capital equipment identified for replacement in Fiscal Year 2018 is shown on Page 5.

**FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM**

The Town's current Five-Year Capital Improvement Program (CIP) identifies various capital projects to be constructed in Fiscal Years 2018 - 2022. The total construction cost of all projects is currently estimated at \$20,475,000. A breakdown of this total by year, infrastructure category and funding source is shown on the following table:

<b>INFRASTRUCTURE</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>TOTAL</b>
WATER INFRASTRUCTURE	\$ 2,500,000	\$ 2,100,000	\$ 2,550,000	\$ 1,550,000	\$ 1,700,000	\$ 10,400,000
SEWER INFRASTRUCTURE	850,000	550,000	550,000	550,000	550,000	3,050,000
STORMWATER DRAINAGE	-	250,000	250,000	250,000	250,000	1,000,000
ROAD IMPROVEMENTS	1,050,000	500,000	1,050,000	500,000	950,000	4,050,000
TOWN FACILITIES	-	900,000	-	600,000	-	1,500,000
PARKS & TRAILS	50,000	185,000	140,000	100,000	-	475,000
<b>TOTAL ANNUAL COST</b>	<b>\$ 4,450,000</b>	<b>\$ 4,485,000</b>	<b>\$ 4,540,000</b>	<b>\$ 3,550,000</b>	<b>\$ 3,450,000</b>	<b>\$ 20,475,000</b>
<b>FUNDING SOURCE:</b>						
- Current Year Revenue	\$ 1,926,000	\$ 1,461,000	\$ 1,940,000	\$ 1,600,000	\$ 1,750,000	\$ 8,677,000
- Grants & Donations	24,000	24,000	50,000	-	-	98,000
- New Long-Term Debt	2,500,000	3,000,000	2,550,000	1,950,000	1,700,000	11,700,000
<b>TOTAL FUNDING</b>	<b>\$ 4,450,000</b>	<b>\$ 4,485,000</b>	<b>\$ 4,540,000</b>	<b>\$ 3,550,000</b>	<b>\$ 3,450,000</b>	<b>\$ 20,475,000</b>

Of the \$20,475,000 total estimated project costs, \$8,675,000 would be financed with current year revenues, \$98,000 with grants and donations, and the remaining \$11,700,000 by the issuance of new long-term debt. Please refer to pages 2 and 3 for a more detailed breakdown of the CIP.



TOWN OF ITHACA  
5-YEAR CAPITAL IMPROVEMENT PROGRAM

2018 CAPITAL BUDGET

INFRASTRUCTURE	2017	Cost	2018	Cost	2019	Cost
WATER TANKS	Pine Tree Water Tank Replacmnt.	\$ 900,000	Ellis Hollow Water Tank Constructior	\$ 1,500,000	East King Road PRV	\$ 200,000
	SUB-TOTAL - Water Tanks	\$ -	SUB-TOTAL - Water Tanks	\$ 1,500,000	SUB-TOTAL - Water Tanks	\$ -
WATER MAINS	Sapsucker Woods Water Main	\$ 550,000	Ellis Hollow Water Main Construction	\$ 1,000,000	Pine Tree Water Main Imprvmts	\$ 600,000
	Christopher Circle Water Main	450,000			Winthrop Drive Water Main	600,000
	Cliff Street Water Main	850,000			Salem Dr - Winston Dr - Winston Ct	900,000
	Remove Cliff Street Pump Station	150,000				
	SUB-TOTAL - Water Mains	\$ 1,000,000	SUB-TOTAL - Water Mains	\$ 1,000,000	SUB-TOTAL - Water Mains	\$ 2,100,000
SANITARY SEWER	Sewer & Manhole Rehabilitation	\$ 300,000	Sewer & Manhole Rehabilitation	\$ 300,000	Sewer & Manhole Rehabilitation	\$ 300,000
	SJC Projects: IAWWTF Improvement Bonds	\$ 200,000	IAWWTF Improvement Bonds	\$ 250,000	IAWWTF Improvement Bonds	\$ 250,000
			Jointly Owned Interceptors	300,000		
	SUB-TOTAL - Sanitary Sewer	\$ 500,000	SUB-TOTAL - Sanitary Sewer	\$ 850,000	SUB-TOTAL - Sanitary Sewer	\$ 550,000
STORM DRAINAGE	Drainage Improvements	\$ -	Drainage Improvements	\$ -	Drainage Improvements	\$ 250,000
ROAD IMPROVEMENTS	Perry Lane - Rebuild	\$ 600,000	Perry Lane - Rebuild	\$ 650,000	Lower Bundy Road - Mill & Fill	\$ 500,000
	Culver Road - Overlay	200,000	Chase Lane - Overlay	250,000		
	Northview, Northview West, Juniper	500,000	La Grand Court - Overlay	150,000		
	SUB-TOTAL - Road Improvements	\$ 700,000	SUB-TOTAL - Road Improvements	\$ 1,050,000	SUB-TOTAL - Road Improvements	\$ 500,000
TOWN FACILITIES	PWF - Rebuild Fueling Station	\$ 500,000		\$ -	PWF - Rebuild Fueling Station	\$ 500,000
	PWF - Modify Fluids Storage Area	100,000			PWF - Truck Wash Bay	400,000
	SUB-TOTAL - Town Facilities	\$ 100,000	SUB-TOTAL - Town Facilities	\$ -	SUB-TOTAL - Town Facilities	\$ 900,000
PARKS & TRAILS	South Hill Trail Culvert Repairs	\$ 135,000	South Hill Trail Culvert Repairs	\$ 50,000	South Hill Trail Culvert Repairs	\$ 135,000
	Hungerford Hgts Park Playground	50,000	Hungerford Hgts Park Playground	50,000	Grandview Park Playground	50,000
	SUB-TOTAL - Parks & Trails	\$ -	SUB-TOTAL - Parks & Trails	\$ 50,000	SUB-TOTAL - Parks & Trails	\$ 185,000
<b>TOTAL ANNUAL COSTS</b>	<b>2017 TOTAL:</b>	<b>\$ 2,300,000</b>	<b>2018 TOTAL:</b>	<b>\$ 4,450,000</b>	<b>2019 TOTAL:</b>	<b>\$ 4,485,000</b>

**Bonding Group - 2017**

Pine Tree Water Tank Replacmnt.	\$ 900,000
Sapsucker Woods Water Main	550,000
Christopher Circle Water Main	450,000
Cliff Street Water Main	850,000
Remove Cliff Street Pump Station	150,000

**Bonding Group - 2018**

Ellis Hollow Water Tank Constructior	\$ 1,500,000
Ellis Hollow Water Main Constructior	\$ 1,000,000

**Bonding Group - 2019**

Pine Tree Water Main Imprvmts	\$ 600,000
Winthrop Drive Water Main	600,000
Salem Dr - Winston Dr - Winston Ct	900,000
PWF - Rebuild Fueling Station	500,000
PWF - Truck Wash Bay	400,000

<b>New Long-Term Debt - 2017:</b>	<b>\$ 1,000,000</b>	<b>New Long-Term Debt - 2018:</b>	<b>\$ 2,500,000</b>	<b>New Long-Term Debt - 2019:</b>	<b>\$ 3,000,000</b>
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TOWN OF ITHACA  
5-YEAR CAPITAL IMPROVEMENT PROGRAM

2018 CAPITAL BUDGET

INFRASTRUCTURE	2020	Cost	2021	Cost	2022	Cost
WATER TANKS	Pine Tree Water Tank Replacmnt.	\$ 900,000	East King Road PRV	\$ 200,000		\$ -
	SUB-TOTAL - Water Tanks	\$ 900,000	SUB-TOTAL - Water Tanks	\$ 200,000	SUB-TOTAL - Water Tanks	\$ -
WATER MAINS	Cliff Sreet Water Main	\$ 850,000	Renwick Heights Area Water Main	\$ 750,000	Staterville Road Water Main - Ph. 1	\$ 850,000
	Remove Cliff Sreet Pump Station	150,000	Brandywine-Simsbury Water Main	600,000	Burleigh - Concord - Lexington	850,000
	Muriel Street Water Main	650,000				
	SUB-TOTAL - Water Mains	\$ 1,650,000	SUB-TOTAL - Water Mains	\$ 1,350,000	SUB-TOTAL - Water Mains	\$ 1,700,000
SANITARY SEWER	Sewer & Manhole Rehabilitation	\$ 300,000	Sewer & Manhole Rehabilitation	\$ 300,000	Sewer & Manhole Rehabilitation	\$ 300,000
	SJC Projects: IAWWTF Improvement Bonds	\$ 250,000	IAWWTF Improvement Bonds	\$ 250,000	IAWWTF Improvement Bonds	\$ 250,000
	SUB-TOTAL - Sanitary Sewer	\$ 550,000	SUB-TOTAL - Sanitary Sewer	\$ 550,000	SUB-TOTAL - Sanitary Sewer	\$ 550,000
STORM DRAINAGE	Drainage Improvements	\$ 250,000	Drainage Improvements	\$ 250,000	Drainage Improvements	\$ 250,000
ROAD IMPROVEMENTS	Sand Bank Road - Upper End	650,000	Seven Mile Drive - Overlay	\$ 250,000	King Road West	\$ 500,000
	Town Line Road - Rebuild	150,000	Compton Road - Rebuild	250,000	Birchwood, Maple, Sycamore	450,000
	Winthrop / Warren	250,000				
	SUB-TOTAL - Road Improvements	\$ 1,050,000	SUB-TOTAL - Road Improvements	\$ 500,000	SUB-TOTAL - Road Improvements	\$ 950,000
TOWN FACILITIES		\$ -	PWF - Admin Office Addition	\$ 600,000		\$ -
	SUB-TOTAL - Town Facilities	\$ -	SUB-TOTAL - Town Facilities	\$ 600,000	SUB-TOTAL - Town Facilities	\$ -
PARKS & TRAILS	South Hill Trail Culvert Repairs	\$ 50,000	South Hill Trail Culvert Repairs	\$ 50,000		\$ -
	Michigan Hill Park & Trail	90,000	Iacovelli Park Playground	50,000		
	SUB-TOTAL - Parks & Trails	\$ 140,000	SUB-TOTAL - Parks & Trails	\$ 100,000	SUB-TOTAL - Parks & Trails	\$ -
<b>TOTAL ANNUAL COSTS:</b>		<b>2020 TOTAL: \$ 4,540,000</b>	<b>2021 TOTAL: \$ 3,550,000</b>	<b>2022 TOTAL: \$ 3,450,000</b>		

**Bonding Group - 2020**

Pine Tree Water Tank Replacmnt.	\$ 900,000
Cliff Sreet Water Main	850,000
Remove Cliff Sreet Pump Station	150,000
Muriel Street Water Main	650,000

**Bonding Group - 2021**

Renwick Heights Area Water Main	\$ 750,000
Brandywine-Simsbury Water Main	600,000
PWF - Admin Office Addition	600,000

**Bonding Group - 2022**

Staterville Road Water Main - Ph. 1	\$ 850,000
Burleigh - Concord - Lexington	850,000

**New Long-Term Debt - 2020: \$ 2,550,000      New Long-Term Debt - 2021: \$ 1,950,000      New Long-Term Debt - 2022: \$ 1,700,000**

## FISCAL YEAR 2018 CAPITAL PROJECT DESCRIPTIONS

### GENERAL FUND:

- Playground Structure Replacement - This project will replace one of our aging wooden playground structures. These wooden playground structures are no longer considered to be safe by the insurance industry. The Town's insurance carrier has requested that, as the Town replaces these older structures, all new equipment meet current insurance industry safety standards. It is anticipated that Hungerford Heights Park will be the site for the playground structure replacement in 2018. The existing structure will be removed and replaced with a pre-manufactured, modular unit that would be assembled and installed by Town staff. \$50,000 will be allocated for this project, which will be funded from current year revenues.

The Town has received a grant through the NYS Office of Parks, Recreation & Historic Preservation that would pay 50% of the cost, up to \$48,000, for replacement of playground equipment over a two-year period. This included the replacement of playground equipment at Hungerford Heights Park in 2018, and Grandview Park scheduled for 2019.

### HIGHWAY FUND:

- Perry Lane Improvements - This is a reconstruction project to address deteriorating pavement conditions, including various drainage improvements. This project will include removal of the existing pavement and base, installation of new base materials and asphalt overlay, and various drainage improvements. The estimated cost of this work is \$650,000, which will be funded from current year revenues.
- Chase Lane Improvements - This is a road surface overlay project to address deteriorating pavement conditions. The estimated cost of this work is \$250,000, which will be funded from current year revenues/fund balance, if available.
- La Grand Court Improvements - This is a road surface overlay project to address deteriorating pavement conditions. The estimated cost of this work is \$150,000, which will be funded from current year revenues/fund balance, if available.

### WATER FUND:

- Ellis Hollow Water Tank Construction - Cornell University's approved rebuilding and expansion of the Maplewood Apartments will triple the number of residents in the complex. An analysis of expected water usage showed that the 200,000 gallon capacity of the existing Pine Tree Water Tank, which serves both the Maplewood Apartments and Cornell's East Hill Plaza complex, will be unable to serve the number of residents in the expanded complex. The Town will construct a new 600,000 gallon capacity glass-lined Water Tank near the intersection of Ellis Hollow and Hungerford Hill Roads. The estimated cost of this project is \$1,500,000, which will be funded by issuing new long-term debt.
- Ellis Hollow Water Main Construction - This project will construct approx. 4,000 LF of new 12" water main from the new Ellis Hollow Water Tank to the water distribution control building located near the intersection of Ellis Hollow and Pine Tree Roads. The estimated cost of this project is \$1,000,000, which will be funded by issuing new long-term debt.

### SEWER FUND:

- Sewer and Manhole Rehabilitation - This is an on-going maintenance project to eliminate water infiltration and reduce blockages in sewer mains and manholes. Selected sewer mains will first be thoroughly cleaned, and then slip-lined with cured in-place plastic pipe. This project is estimated to cost \$300,000 and will be funded from current year revenues.



- Jointly Owned Interceptors - Interceptor sewers carry sewage from the Town through the City of Ithaca for treatment at the Ithaca Area Wastewater Treatment Plant, located at the southern end of Cayuga Lake. These sewer lines are jointly owned with the City, and the Town is responsible for a portion of the maintenance and replacement costs of these lines. The City of Ithaca and the Town of Ithaca must initially approve all capital projects and related expenditures before any construction can take place. This project is for replacement of the State Street Interceptor, which is the last of five projects originally agreed to between the Town and City. While we do not know at this time when the City will proceed with construction, \$300,000 will be budgeted in FY 2018, to be funded from the SJC reserve account.

**FUTURE PARKS DEVELOPMENT PROJECTS:**

The following listed park development projects are future-year projects that will be built as public demand appears and/or funding becomes available. These projects were shown on the CIP in previous years, but due to the uncertainty of when these projects would be built, their inclusion on the CIP often resulted in some confusion. To eliminate this confusion, the Budget Committee directed that these projects be removed from the CIP until such time as funding has been secured for a project.

- West Hill Community Park
- Saponi Meadows
- Poyer Trail to Woolf Park
- Tennis Court(s)
- West Hill Trails

**FIVE-YEAR CAPITAL EQUIPMENT REPLACEMENT SUMMARY**

The Town's current Five-Year Capital Equipment Summary identifies various vehicles and capital equipment to be replaced during Fiscal Years 2018 - 2022. The total five-year replacement cost is currently estimated at \$3,347,000. Please see pages 6, 7 and 8 for schedules showing the estimated cost of each item, and the breakdown of the estimated cost between the various funds for each year.

**FISCAL YEAR 2018 CAPITAL EQUIPMENT REPLACEMENT SUMMARY**

The following schedule identifies the capital equipment scheduled for replacement in Fiscal Year 2018 at a total estimated cost of \$754,000. Funding of capital equipment replacements will come from current year revenues/fund balance.

CAPITAL EQUIPMENT	FLEET No.	MODEL YEAR	USEFULL LIFE	MILEAGE HOURS	ORIGINAL COST	REPLACEMENT COST
<b>2018 REPLACEMENTS:</b>						
Jeep Liberty 4x4 (Codes)	26	2006	7		\$ 14,711	\$ 32,000
Jeep Cherokee 4x4 (Public Works)	64	2005	15		18,087	40,000
International 6x4 Highway Truck	15	2010	8		199,000	250,000
GMC T7500 Leaf-Packer Truck	61	2000	15		34,950	150,000
Ford F450 4x4 One-Ton Dump Truck	18	2011	7		45,689	65,000
Ford F250 4x4 Pickup Truck w/Plow	66	2008	6		28,792	45,000
Grasshopper Mower w/Mowing Deck	44	2015	3		15,089	17,000
Ingersoll Rand Vibratory Roller	39	2001	15		76,463	155,000
<b>Total - 2018 Vehicle &amp; Equipment Expenditures</b>						<b>\$ 754,000</b>

TOWN OF ITHACA

CAPITAL EQUIPMENT SUMMARY - VEHICLE AND EQUIPMENT REPLACEMENTS

2018 CAPITAL BUDGET

CAPITAL EQUIPMENT	YEAR PURCHASED	ORIGINAL COST	REPLACEMENT COST	ENGINEERING	TOWN PARKS	STORMWATER	CODES & PLANNING	HIGHWAY	WATER	SEWER	
				A1440	A7110	A8540		DA/DB5130	F8340	G8120	
<b>2018 REPLACEMENTS:</b>											
Inspection Vehicle - Codes	26	2006	\$ 14,711	\$ 32,000	\$ -	\$ -	\$ -	\$ 32,000	\$ -	\$ -	\$ -
Staff/Inspection Vehicle	64	2005	18,087	40,000	-	8,000	2,000	-	20,000	6,000	4,000
Highway Truck w/Plow	15	2010	199,000	250,000	-	50,000	12,500	-	125,000	37,500	25,000
Leaf-Packer Truck	61	2000	34,950	150,000	-	30,000	7,500	-	75,000	22,500	15,000
Lt-Duty Dump Truck	18	2011	45,689	65,000	-	13,000	3,250	-	32,500	9,750	6,500
Med-Duty Pickup w/Plow	66	2008	28,792	45,000	-	9,000	2,250	-	22,500	6,750	4,500
Grasshopper Mower	44	2015	15,089	17,000	-	3,400	850	-	8,500	2,550	1,700
Vibratory Roller	39	2001	76,463	155,000	-	31,000	7,750	-	77,500	23,250	15,500
<b>Sub-Total - 2018 Replacements</b>				<b>\$ 754,000</b>	<b>\$ -</b>	<b>\$ 144,400</b>	<b>\$ 36,100</b>	<b>\$ 32,000</b>	<b>\$ 361,000</b>	<b>\$ 108,300</b>	<b>\$ 72,200</b>
<b>2019 REPLACEMENTS:</b>											
Inspection Vehicle - Codes	30	2011	\$ 19,549	\$ 32,000	\$ -	\$ -	\$ -	\$ 32,000	\$ -	\$ -	\$ -
Cargo Van	22	2012	24,808	32,000	-	6,400	1,600	-	16,000	4,800	3,200
Highway Truck w/Plow	13	2007	140,073	260,000	-	52,000	13,000	-	130,000	39,000	26,000
Med-Duty Dump Truck	20	2009	87,222	135,000	-	27,000	6,750	-	67,500	20,250	13,500
Med-Duty Pickup w/Plow	68	2012	37,338	47,500	-	9,500	2,375	-	23,750	7,125	4,750
Med-Duty Pickup w/Plow	69	2013	36,640	47,500	-	9,500	2,375	-	23,750	7,125	4,750
Backhoe/Loader	42	2008	54,445	125,000	-	25,000	6,250	-	62,500	18,750	12,500
"Toolcat" Utility Vehicle	43	2015	69,470	77,500	-	15,500	3,875	-	38,750	11,625	7,750
Grasshopper Mower	52	2015	15,089	17,500	-	3,500	875	-	8,750	2,625	1,750
Motor Grader	37	1997	87,330	275,000	-	55,000	13,750	-	137,500	41,250	27,500
Equipment Trailer	T1	2016	3,983	4,500	-	900	225	-	2,250	675	450
Equipment Trailer - 15-Ton	T11	2009	9,506	15,000	-	3,000	750	-	7,500	2,250	1,500
<b>Sub-Total - 2019 Replacements</b>				<b>\$ 1,068,500</b>	<b>\$ -</b>	<b>\$ 207,300</b>	<b>\$ 51,825</b>	<b>\$ 32,000</b>	<b>\$ 518,250</b>	<b>\$ 155,475</b>	<b>\$ 103,650</b>
<b>2020 REPLACEMENTS:</b>											
Staff/Inspection Vehicle	24	2013	\$ 23,473	\$ 32,000	\$ -	\$ -	\$ -	\$ 32,000	\$ -	\$ -	\$ -
Med-Duty Dump Truck	8	2006	59,445	140,000	-	28,000	7,000	-	70,000	21,000	14,000
Lt-Duty Dump Truck C&C	17	2010	24,932	32,000	-	6,400	1,600	-	16,000	4,800	3,200
Skid-Steer Loader	46	2010	25,977	40,000	-	8,000	2,000	-	20,000	6,000	4,000
Ventrac Utility Tractor	51	2015	48,117	57,500	-	11,500	2,875	-	28,750	8,625	5,750
Grasshopper Mower	53	2017	16,500	18,000	-	3,600	900	-	9,000	2,700	1,800
Equipment Trailer	T3	2017	5,000	6,500	-	1,300	325	-	3,250	975	650
Cargo Trailer	T9	2005	4,250	9,000	-	1,800	450	-	4,500	1,350	900
<b>Sub-Total - 2020 Replacements</b>				<b>\$ 335,000</b>	<b>\$ -</b>	<b>\$ 60,600</b>	<b>\$ 15,150</b>	<b>\$ 32,000</b>	<b>\$ 151,500</b>	<b>\$ 45,450</b>	<b>\$ 30,300</b>

TOWN OF ITHACA

CAPITAL EQUIPMENT SUMMARY - VEHICLE AND EQUIPMENT REPLACEMENTS

2018 CAPITAL BUDGET

CAPITAL EQUIPMENT	YEAR PURCHASED	ORIGINAL COST	REPLACEMENT COST	ENGINEERING	TOWN PARKS	STORMWATER	CODES & PLANNING	HIGHWAY	WATER	SEWER	
				A1440	A7110	A8540		DB5130	F8340	G8120	
<b>2021 REPLACEMENTS:</b>											
Tractor/Trailer Truck	5	2014	\$ 121,457	\$ 180,000	\$ -	\$ 36,000	\$ 9,000	\$ -	\$ 90,000	\$ 27,000	\$ 18,000
Front End Loader	33	2006	173,900	275,000	-	55,000	13,750	-	137,500	41,250	27,500
Bulldozer	47	2006	58,715	120,000	-	24,000	6,000	-	60,000	18,000	12,000
Grasshopper Mower	44	2018	17,000	18,500	-	3,700	925	-	9,250	2,775	1,850
Brush Chipper	82	2011	40,700	52,000	-	10,400	2,600	-	26,000	7,800	5,200
Low-Boy Equipment Trailer	T10	2014	58,820	75,000	-	15,000	3,750	-	37,500	11,250	7,500
			-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-
<b>Sub-Total - 2021 Replacements</b>				\$ 720,500	\$ -	\$ 144,100	\$ 36,025	\$ -	\$ 360,250	\$ 108,075	\$ 72,050
<b>2022 REPLACEMENTS:</b>											
Staff/Inspection Vehicle	85	2015	\$ 26,707	\$ 35,000	\$ -	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ -
Flat Bed Truck	21	2012	32,948	50,000	-	10,000	2,500	-	25,000	7,500	5,000
Med-Duty Pickup w/Plow	63	2016	41,485	50,000	-	10,000	2,500	-	25,000	7,500	5,000
"Toolcat" Utility Vehicle	43	2018	77,500	85,000	-	17,000	4,250	-	42,500	12,750	8,500
Grasshopper Mower	52	2019	17,500	19,000	-	3,800	950	-	9,500	2,850	1,900
Leaf Vacuum	45	2012	21,970	35,000	-	7,000	1,750	-	17,500	5,250	3,500
Brush Chipper	71	2012	50,200	55,000	-	11,000	2,750	-	27,500	8,250	5,500
Power Screen	38	2008	59,000	135,000	-	27,000	6,750	-	67,500	20,250	13,500
Equipment Trailer	T1	2019	4,500	5,000	-	1,000	250	-	2,500	750	500
			-	-	-	-	-	-	-	-	-
<b>Sub-Total - 2022 Replacements</b>				\$ 469,000	\$ -	\$ 86,800	\$ 21,700	\$ 35,000	\$ 217,000	\$ 65,100	\$ 43,400
<b>TOTAL - CAPITAL EQUIPMENT</b>				\$ 3,347,000	\$ -	\$ 643,200	\$ 160,800	\$ 131,000	\$ 1,608,000	\$ 482,400	\$ 321,600



TOWN OF ITHACA

CAPITAL EQUIPMENT SUMMARY - FUNDING

2018 CAPITAL BUDGET

CAPITAL EQUIPMENT	TOTAL COST	ENGINEERING	TOWN PARKS	STORMWATER	CODES	HIGHWAY	WATER	SEWER
		A1440	A7110	A8540	B8010	DA/DB5130	F8340	G8120
<b>FISCAL YEAR 2018:</b>								
VEHICLES / VANS 270	\$ 72,000	\$ -	\$ 8,000	\$ 2,000	\$ 32,000	\$ 20,000	\$ 6,000	\$ 4,000
HEAVY-DUTY TRUCK 271	250,000	-	50,000	12,500	-	125,000	37,500	25,000
MEDIUM-DUTY TRUCK 272	150,000	-	30,000	7,500	-	75,000	22,500	15,000
LIGHT-DUTY TRUCK 273	110,000	-	22,000	5,500	-	55,000	16,500	11,000
LOADERS & BACKHOES 274	-	-	-	-	-	-	-	-
EXCAVATING EQUIP. 275	-	-	-	-	-	-	-	-
TRACTORS & MOWERS 276	17,000	-	3,400	850	-	8,500	2,550	1,700
LEAF & BRUSH EQUIP. 277	-	-	-	-	-	-	-	-
SPECIALTY EQUIPMENT 278	155,000	-	31,000	7,750	-	77,500	23,250	15,500
MISCELLANEOUS EQUIP. 279	-	-	-	-	-	-	-	-
<b>Sub-Total - Fiscal Year 2018</b>	<b>\$ 754,000</b>	<b>\$ -</b>	<b>\$ 144,400</b>	<b>\$ 36,100</b>	<b>\$ 32,000</b>	<b>\$ 361,000</b>	<b>\$ 108,300</b>	<b>\$ 72,200</b>
<b>FISCAL YEAR 2019:</b>								
VEHICLES / VANS 270	\$ 64,000	\$ -	\$ 6,400	\$ 1,600	\$ 32,000	\$ 16,000	\$ 4,800	\$ 3,200
HEAVY-DUTY TRUCK 271	260,000	-	52,000	13,000	-	130,000	39,000	26,000
MEDIUM-DUTY TRUCK 272	135,000	-	27,000	6,750	-	67,500	20,250	13,500
LIGHT-DUTY TRUCK 273	95,000	-	19,000	4,750	-	47,500	14,250	9,500
LOADERS & BACKHOES 274	125,000	-	25,000	6,250	-	62,500	18,750	12,500
EXCAVATING EQUIP. 275	-	-	-	-	-	-	-	-
TRACTORS & MOWERS 276	95,000	-	19,000	4,750	-	47,500	14,250	9,500
LEAF & BRUSH EQUIP. 277	-	-	-	-	-	-	-	-
SPECIALTY EQUIPMENT 278	275,000	-	55,000	13,750	-	137,500	41,250	27,500
MISCELLANEOUS EQUIP. 279	19,500	-	3,900	975	-	9,750	2,925	1,950
<b>Sub-Total - Fiscal Year 2019</b>	<b>\$ 1,068,500</b>	<b>\$ -</b>	<b>\$ 207,300</b>	<b>\$ 51,825</b>	<b>\$ 32,000</b>	<b>\$ 518,250</b>	<b>\$ 155,475</b>	<b>\$ 103,650</b>
<b>FISCAL YEAR 2020:</b>								
VEHICLES / VANS 270	\$ 32,000	\$ -	\$ -	\$ -	\$ 32,000	\$ -	\$ -	\$ -
HEAVY-DUTY TRUCK 271	-	-	-	-	-	-	-	-
MEDIUM-DUTY TRUCK 272	140,000	-	28,000	7,000	-	70,000	21,000	14,000
LIGHT-DUTY TRUCK 273	32,000	-	6,400	1,600	-	16,000	4,800	3,200
LOADERS & BACKHOES 274	40,000	-	8,000	2,000	-	20,000	6,000	4,000
EXCAVATING EQUIP. 275	-	-	-	-	-	-	-	-
TRACTORS & MOWERS 276	75,500	-	15,100	3,775	-	37,750	11,325	7,550
LEAF & BRUSH EQUIP. 277	-	-	-	-	-	-	-	-
SPECIALTY EQUIPMENT 278	-	-	-	-	-	-	-	-
MISCELLANEOUS EQUIP. 279	15,500	-	3,100	775	-	7,750	2,325	1,550
<b>Sub-Total - Fiscal Year 2020</b>	<b>\$ 335,000</b>	<b>\$ -</b>	<b>\$ 60,600</b>	<b>\$ 15,150</b>	<b>\$ 32,000</b>	<b>\$ 151,500</b>	<b>\$ 45,450</b>	<b>\$ 30,300</b>
<b>FISCAL YEAR 2021:</b>								
VEHICLES / VANS 270	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HEAVY-DUTY TRUCK 271	180,000	-	36,000	9,000	-	90,000	27,000	18,000
MEDIUM-DUTY TRUCK 272	-	-	-	-	-	-	-	-
LIGHT-DUTY TRUCK 273	-	-	-	-	-	-	-	-
LOADERS & BACKHOES 274	275,000	-	55,000	13,750	-	137,500	41,250	27,500
EXCAVATING EQUIP. 275	120,000	-	24,000	6,000	-	60,000	18,000	12,000
TRACTORS & MOWERS 276	18,500	-	3,700	925	-	9,250	2,775	1,850
LEAF & BRUSH EQUIP. 277	52,000	-	10,400	2,600	-	26,000	7,800	5,200
SPECIALTY EQUIPMENT 278	-	-	-	-	-	-	-	-
MISCELLANEOUS EQUIP. 279	75,000	-	15,000	3,750	-	37,500	11,250	7,500
<b>Sub-Total - Fiscal Year 2021</b>	<b>\$ 720,500</b>	<b>\$ -</b>	<b>\$ 144,100</b>	<b>\$ 36,025</b>	<b>\$ -</b>	<b>\$ 360,250</b>	<b>\$ 108,075</b>	<b>\$ 72,050</b>
<b>FISCAL YEAR 2022:</b>								
VEHICLES / VANS 270	\$ 35,000	\$ -	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ -
HEAVY-DUTY TRUCK 271	-	-	-	-	-	-	-	-
MEDIUM-DUTY TRUCK 272	-	-	-	-	-	-	-	-
LIGHT-DUTY TRUCK 273	100,000	-	20,000	5,000	-	50,000	15,000	10,000
LOADERS & BACKHOES 274	-	-	-	-	-	-	-	-
EXCAVATING EQUIP. 275	-	-	-	-	-	-	-	-
TRACTORS & MOWERS 276	104,000	-	20,800	5,200	-	52,000	15,600	10,400
LEAF & BRUSH EQUIP. 277	90,000	-	18,000	4,500	-	45,000	13,500	9,000
SPECIALTY EQUIPMENT 278	135,000	-	27,000	6,750	-	67,500	20,250	13,500
MISCELLANEOUS EQUIP. 279	5,000	-	1,000	250	-	2,500	750	500
<b>Sub-Total - Fiscal Year 2022</b>	<b>\$ 469,000</b>	<b>\$ -</b>	<b>\$ 86,800</b>	<b>\$ 21,700</b>	<b>\$ 35,000</b>	<b>\$ 217,000</b>	<b>\$ 65,100</b>	<b>\$ 43,400</b>
<b>TOTAL - CAPITAL EQUIPMENT</b>	<b>\$ 3,347,000</b>	<b>\$ -</b>	<b>\$ 643,200</b>	<b>\$ 160,800</b>	<b>\$ 131,000</b>	<b>\$ 1,608,000</b>	<b>\$ 482,400</b>	<b>\$ 321,800</b>