



TOWN OF TYNGSBOROUGH
Capital Asset Management Committee
25 Bryants Lane
Tyngsborough, MA 01879
Tel: 978 649-2300 Ext. 100 Fax: 978 649-2320

Capital Improvement Plan **FY2020 through FY2024**

The FY20 Capital Asset Management Committee (CAMC) membership consists of:

Burton Buchman, Finance Committee
Robert Mullin, School Committee
Amy Pozerski, School Committee
Richard Reault, Board of Selectmen
Hillari Wennerstrom, Board of Selectmen

Angel Wills, Finance Director/Town Accountant, serves as an ad-hoc member. Justin Sultzbach, Assistant Town Administrator, acts as coordinator for the committee. A new Capital Request form was introduced for this upcoming Fiscal Year. Departments were asked to submit their requests for capital improvement projects by the first week in January, 2019. The Assistant Town Administrator then reviewed and packaged the FY2020 – FY2024 requests for review by the CAMC.

The FY20 plan considered a financial outlook briefing from Finance Director Wills. This included a review of all available funding sources for FY20 projects. Of twelve potential items listed, the CAMC worked together to narrow the field of projects down to seven. By choosing to tighten the scope of some projects and phase in the execution of others, the Committee crafted a plan that successfully met the needs of all seven projects. The FY20 Plan is attached to this document for review.

Additionally, this year featured an added focus on streamlining the Town's Five Year Capital Plan. This plan is one of the Town's most crucial financial planning tools. A well-maintained Five Year Plan allows the Town an opportunity to proactively plan and adjust for potential future expenses. With the help of the Town Administration, Department Heads, Tyngsborough Public Schools, and Committee Members, each Capital Project in the Five Year Plan was examined line by line in a successful effort to produce a more accurate and precise Five Year cost projection.

The Capital Asset Management Committee concluded its business on April 22nd, 2019 by a vote at a joint meeting with the Board of Selectmen.

Meeting Dates: January 29th, 2019
 February 12th, 2019
 February 19th, 2019
 February 27th, 2019
 March 20th, 2019
 April 22nd, 2019 (Joint with Board of Selectmen)

The Committee reviewed the Town’s existing debt schedule, available free cash, revolving funds, enterprise funds and other funds available for capital purchases. A summary of these figures can be found in Table 1.

TABLE 1

Source	FY'19	CHANGE+/-	FY'20*	% of Operating
Stabilization	\$1,813,058	\$275,000	\$2,088,058	5.09%
Capital Asset Stabilization	\$601,384	0	\$601,384	1.46%
Compensated Absences	\$115,881	\$40,000	\$155,881	0.38%
Debt & Debt Assessment	\$105,858	(\$105,856)	\$0	0.00%
Billboard Stabilization	\$20,000	\$0	\$20,000	.05%
Special-Ed Stabilization	\$122,051	(\$93,000)	\$29,051	0.07%
			\$2,892,950	7.05%
			Certified Free Cash	\$952,801

**These figures have not been finalized and are subject to change*

APPLICABLE PROJECTS

The Capital Asset Management Committee typically only votes on capital projects that are funded through free cash or general borrowing in the operating budget. Projects funded through Sewer Commission, PEG Media Account, or Community Preservation Commission are typically brought forward to the Board of Selectmen by their respective Boards and the Selectmen decide to add them to the warrant for Town Meeting consideration. The CAMC focuses on general departmental capital requests.

FUNDING SOURCES

The CAMC makes the following recommendations regarding all submissions made for the FY20 Annual Town Meeting, along with supporting information (attached) for each item. All capital items for the May 21, 2019 Annual Town Meeting are proposed to be funded through a combination of the following funding sources:

- Receipts Reserved for 10-Yr CIP - \$26,528.93
- Free Cash - \$144,266.35
- Remaining School Remediation Fund - \$48,542.78
- Remaining FY19 Turf Field Funds - \$168,020.94

For a Total of: \$387,359.00

**ANNUAL TOWN MEETING
FY20 CAPITAL PROJECTS**

ITEM #	DEPARTMENT	PROJECT	NOT TO EXCEED	EXPENDED BY
1	Police	Motorola Digital Cruiser Radios	\$10,724	Board of Selectmen
2	Police	Motorola Digital Portable Radios	\$12,251	Board of Selectmen
3	Police	Purchase of Tasers	\$11,821	Board of Selectmen
4	Board of Selectmen/ Town Administration	Replace Town Hall HVAC	\$65,000	Board of Selectmen
5	Schools	District Wide Phone/Clocks/Alarm – Phase 1	\$38,000	Board of Selectmen
6	Schools	TES Roof Shingles – Phase 1	\$200,000	Board of Selectmen
7	Schools	THS Fire Panel	\$49,563	Board of Selectmen
			\$387,359	TOTAL

FY20 SEWER PROJECTS*

ITEM #	DEPARTMENT	PROJECT	NOT TO EXCEED	EXPENDED BY
1	Sewer	Phase 2 Utility Service Connections	\$30,000	Sewer Enterprise Fund
2	Sewer	Pump Replacement	\$60,696	Sewer Enterprise Fund
3	Sewer	TSC portion of Chelmsford Cost Study	\$25,000	Sewer Enterprise Fund
4	Sewer	Pump Grinder Replacement	\$13,474	Sewer Enterprise Fund
5	Sewer	Inflow & Infiltration Repairs	\$100,000	Sewer Enterprise Fund
6	Sewer	Portion of design for future sewer	\$100,000	Sewer Enterprise Fund
			\$329,170	TOTAL

**These projects are funded through the Sewer Enterprise Fund*

FY20-FY24 Capital Plan

Dept	Description	2020	2021	2022	2023	2024
Fire	Purchase Larger Rescue Boat		\$35,000			
Fire	Hydraulic Rescue Tool				\$27,000	
Total Fire		\$0	\$35,000	\$0	\$27,000	\$0
Highway	6-wh DT w/Plow & Sander Repl.		\$180,000			
Highway	6-wh DT w/Plow & Sander Repl.			\$180,000		
Highway	6-wh d truck w/Plow and sander				\$180,000	
Highway	1-ton utility truck w/Plow				\$60,000	
Highway	3/4 Ton Pickup					\$60,000
Highway	John Deer Loader					\$175,000
Total Highway		\$0	\$180,000	\$180,000	\$240,000	\$235,000
Police	Motorola Dig. Cruiser Radios	\$10,724				
Police	Motorola Dig. Portable Radios	\$12,251				
Police	Purchase of Tasers	\$11,821				
Police	Building Window Replace			\$25,000		
Police	Building exterior stairs			\$20,000		
Police	Central Air Conditioning			\$30,000		
Police	Parking lot paved			\$35,000		
Police	Paint Exterior Building			\$10,000		
Police	Upgrade to Cell block safety			\$30,000		
Police	Digital Comm. Town-Wide			\$400,000		
Total Police		\$34,796	\$0	\$550,000	\$0	\$0
BOS/TA	Repl. HVAC System- TH	\$65,000				
BOS/TA	Building Maintenance TH		\$75,000			
BOS/TA	Repair Masonry Joints- TH			\$19,836		
BOS/TA	Replace Perim. Sealant- TH			\$33,060		
BOS/TA	Full Roof Replacement - TH				\$225,000	
Total Selectmen/TA		\$65,000	\$75,000	\$52,896	\$225,000	\$0
School	Norris Rd Phone System (Phase 1)	\$38,000				
School	TES Roof Shingles Phase 1	\$200,000				
School	THS Fire Panel	\$49,563				
School	TES Phone System (Phase 2)		\$50,000			
School	Tennis Court Resurfacing		\$60,000			
School	TES Roof Phase 2		\$200,000			
School	THS Bleachers		\$264,000			
School	THS exterior stairs			\$77,000		
School	THS repl. sci. sinks (ADA comp)			\$186,000		
School	TPS exterior door upgrades				\$75,000	
School	TPS Utility Gator				\$28,000	
School	TPS School Truck					\$60,000
Total School		\$287,563	\$574,000	\$263,000	\$103,000	\$60,000
FY Totals		\$387,359	\$864,000	\$1,045,896	\$595,000	\$295,000
Five Year Total		\$3,187,255				



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name Cruiser Radios	Item Requested Cruiser Radios
Department Name Police	Submitted by Chief Richard Howe
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> \$10,724	Is this a replacement item? <i>(Yes/No)</i> No
Fiscal year needed 2020	Expected life of new item 7 years

Please use the project narrative box on Page 2 to provide a detailed description

This is the department's opportunity to persuade the CAMC to approve their request. It is recommended that this be completed with as much detail and relevant information as possible. Please include: **1.** Complete description of the project, **2.** Why it is being requested **3.** What is being done with the replaced item (if applicable) and the anticipated salvage value, **4.** Other funding sources available (grants, donations, special revenue funds, etc.), **5.** Expected annual maintenance costs, and **6.** How the project will ultimately benefit the Department, Town, and Citizens of Tyngsborough.



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

This is for three (3) Motorola radios which are installed in new cruisers. As we anticipate ordering up to two (2) new cruisers in the next twelve months these will be used to install in the new vehicles with one spare. We expect these radios to be useful for approximately seven (7) years and will be transferred to replacement vehicles as necessary.



Quote Number: QU0000461576
Effective: 10 DEC 2018
Effective To: 08 FEB 2019

Bill-To:

TYNGSBOROUGH POLICE DEPT
20 WESTFORD RD
TYNGSBORO, MA 01879
United States

Ultimate Destination:

TYNGSBOROUGH POLICE DEPT
20 WESTFORD RD
TYNGSBORO, MA 01879
United States

Attention:

Name: Chief Richard Howe
Phone: 978-649-7504

Sales Contact:

Name: John DeGenova
Email: jdegenova@cybercomminc.com
Phone: (781) 247-3949

Contract Number: ITT57 MA STATE
Freight terms: FOB Destination
Payment terms: Net 45

Item	Quantity	Nomenclature	Description	List price	Your price	Extended Price
1	3	M25SSS9PW1AN	APX6500 UHF R2 MID POWER	\$4,532.00	\$3,484.64	\$10,453.92
(Notes)THIS QUOTE DOES NOT INCLUDE RADIO INSTALLATION						
1a	3	G806BE	ADD: ASTRO DIGITAL CAI OPERATION			
1b	3	G78AT	ADD: 3Y ESSENTIAL SERVICE			
1c	3	W22BA	ADD: STD PALM MICROPHONE APX			
1d	3	G442AJ	ADD: O5 CONTROL HEAD			
1e	3	G67BC	ADD: REMOTE MOUNT MID POWER			
1f	3	G444AE	ADD: APX CONTROL HEAD SOFTWARE	-	-	-
1g	3	G510AB	ADD: ANT LOW PROFILE 450-512 MHZ			
1h	3	B18CR	ADD: AUXILARY SPKR 7.5 WATT			
1i	3	GA00235AA	ADD: NO GPS ANTENNA NEEDED	-	-	-
1j	3	G48BD	ENH: CONVENTIONAL OPERATION APX6500			
2	270	SVC03SVC0115D	SUBSCRIBER PROGRAMMING	\$1.00	\$1.00	\$270.00
(Notes)PROGRAM 3 APX6500 REMOTE MOUNT RADIOS CUSTOMER LOCATION						

Total Quote in USD

\$10,723.92

PLEASE MAKE PO OUT TO: MOTOROLA SOLUTIONS, INC. 225 CEDAR HILL STREET, SUITE 200 MARLBOROUGH, MA 01752.
INCLUDE THE STATEMENT: PRICING IN ACCORDANCE WITH MA STATE CONTRACT ITT-57, PAYMENT TERMS NET 45
INCLUDE A SHIP TO AND BILL TO ADDRESS
EMAIL PO TO: jdegenova@cybercomminc.com FOR ORDER PROCESSING

1. Terms subject to ITT57 as modified by the clarifications and terms/conditions. For a full list of terms/conditions please contact you Motorola representative.



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name Portable Radios	Item Requested Portable Radios
Department Name Police	Submitted by Chief Richard Howe
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> \$12,251	Is this a replacement item? <i>(Yes/No)</i> Yes
Fiscal year needed 2020	Expected life of new item 7-10 years

Please use the project narrative box on Page 2 to provide a detailed description

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Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

These five (5) Motorola digital portable radios will replace five (5) aging portable radios which will become spares for reserve and special officers working traffic details. The radios being replaced are approximately twelve (12) years old and are not capable of being reprogrammed, nor can they be repaired if they fail.



Quote Number: QU0000463015
Effective: 27 DEC 2018
Effective To: 25 FEB 2019

Bill-To:
 TYNGSBOROUGH POLICE DEPT
 20 WESTFORD RD
 TYNGSBORO, MA 01879
 United States

Ultimate Destination:
 TYNGSBOROUGH POLICE DEPT
 20 WESTFORD RD
 TYNGSBORO, MA 01879
 United States

Attention:
Name: D.C. Shaun Woods
Phone: (978) 649-7504

Sales Contact:
Name: John DeGenova
Email: jdegenova@cybercomminc.com
Phone: (781) 247-3949

Contract Number: ITT57 MA STATE
Freight terms: FOB Destination
Payment terms: Net 45

Item	Quantity	Nomenclature	Description	List price	Your price	Extended Price
1	5	H51SDF9PW6AN	APX 4000 UHFR2 MODEL 2 PORTABLE	\$2,788.00	\$2,140.48	\$10,702.40
1a	5	Q811BR	ENH: SOFTWARE P25 CONVENTIONAL			
1b	5	H885BK	ADD: 3Y ESSENTIAL SERVICE			
1c	5	QA04865AA	ADD: TWO KNOB CONFIGURATION	-	-	-
1d	5	QA02749AA	ALT: IMPRES LI-ION 2350MAH (PMNN4424)			
2	5	PMPN4174A	CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	\$69.25	\$47.78	\$238.90
(Notes)Single Unit Charger						
3	5	PMMN4099B	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	\$132.00	\$91.08	\$455.40
(Notes)Speaker Mic						
4	5	PMNN4424AR	BATT IMPRES LIION 2350T	\$117.00	\$80.73	\$403.65
(Notes)Spare Battery						
5	450	SVC03SVC0115D	SUBSCRIBER PROGRAMMING	\$1.00	\$1.00	\$450.00
(Notes)Portable Programming and Engraving						

Total Quote in USD \$12,250.35

PLEASE MAKE PO OUT TO: MOTOROLA SOLUTIONS, INC. 225 CEDAR HILL STREET, SUITE 200 MARLBOROUGH, MA 01752.
 INCLUDE THE STATEMENT: PRICING IN ACCORDANCE WITH MA STATE CONTRACT ITT-57, PAYMENT TERMS NET 45
 INCLUDE A SHIP TO AND BILL TO ADDRESS
 EMAIL PO TO: jdegenova@cybercomminc.com FOR ORDER PROCESSING

1. Terms subject to ITT57 as modified by the clarifications and terms/conditions. For a full list of terms/conditions please contact you Motorola representative.

2. PO Issued to Motorola Solutions Inc. must:



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name Tasers	Item Requested Tasers
Department Name Police	Submitted by Chief Richard Howe
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> \$11,821	Is this a replacement item? <i>(Yes/No)</i> No
Fiscal year needed 2020	Expected life of new item 5 years

Please use the project narrative box on Page 2 to provide a detailed description

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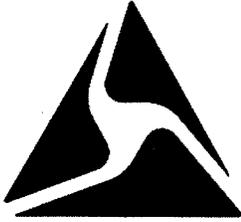


Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

We are in need of five (5) additional tasers to ensure that each full-time and reserve officer has a taser. This is a critical need to comply with department policy and procedures regarding our use of force guidelines. The department has grown with the addition of two (2) School Resource Officers and we are in need of replacing aging tasers which are no longer supported by Axon (Formerly Taser). This request and quote includes required holsters, battery packs and cartridges.



Axon Enterprise, Inc.
 17800 N 85th St.
 Scottsdale, Arizona 85255
 United States
 Phone: (800) 978-2737

Q-188545-43472.787AS

Issued: 01/07/2019

Quote Expiration: 03/29/2019

Account Number: 196742

Start Date: 11/05/2018
 Payment Terms: Net 30
 Delivery Method: Fedex - Ground

SHIP TO

Shaun Woods
 Tyngsborough Police Dept. - MA
 20 WESTFORD ROAD
 TYNGSBOROUGH, MA 01879
 US

BILL TO

Tyngsborough Police Dept. - MA
 20 WESTFORD ROAD
 TYNGSBOROUGH, MA 01879
 US

SALES REPRESENTATIVE

Adam Smith
 Phone: (480) 463-2201
 Email: asmith@taser.com
 Fax: (480) 463-2201

PRIMARY CONTACT

Shaun Woods
 Phone: (978) 649-7504
 Email: swoods@tyngsboroughma.gov

Year 1

Item	Description	Quantity	List Unit Price	Net Unit Price	Total (USD)
Axon Plans & Packages					
85705	TASER 60 YEAR 1 PAYMENT: X26P UNLIMITED	5	445.00	445.00	2,225.00
85706	TASER 60 YEAR 2 PAYMENT: X26P UNLIMITED	5	445.00	445.00	2,225.00
85707	TASER 60 YEAR 3 PAYMENT: X26P UNLIMITED	5	445.00	445.00	2,225.00
Hardware					
11002	BLACK X26P CEW, HANDLE	5	0.00	0.00	0.00
11501	RIGHT-HAND HOLSTER, X26P, BLACKHAWK	5	0.00	0.00	0.00
22010	PPM, STANDARD BATTERY PACK, X2/X26P	5	0.00	0.00	0.00
44205	21 FT NON-CONDUCTIVE TRAINING CARTRIDGE, X26/X26P	15	0.00	0.00	0.00
44203	25 FT STANDARD CARTRIDGE, X26/X26P	10	0.00	0.00	0.00
				Subtotal	6,675.00
				Estimated Shipping	0.00
				Estimated Tax	417.18
				Total	7,092.18

Year 2

Item	Description	Quantity	List Unit Price	Net Unit Price	Total (USD)
Axon Plans & Packages					
85708	TASER 60 YEAR 4 PAYMENT: X26P UNLIMITED	5	445.00	445.00	2,225.00
				Subtotal	2,225.00
				Estimated Tax	139.06
				Total	2,364.06

Year 3

Item	Description	Quantity	List Unit Price	Net Unit Price	Total (USD)
Axon Plans & Packages					
85709	TASER 60 YEAR 5 PAYMENT: X26P UNLIMITED	5	445.00	445.00	2,225.00
				Subtotal	2,225.00
				Estimated Tax	139.06
				Total	2,364.06
Grand Total					11,820.30



Summary of Payments

Payment	Amount (USD)
Year 1	7,092.18
Year 2	2,364.06
Year 3	2,364.06
Grand Total	11,820.30

TASER60 Terms and Conditions: This quote contains a purchase under the TASER 60 Plan. If your purchase only includes the TASER 60 Plan, CEWs, and CEW accessories, then this purchase is solely governed by the TASER 60 Terms and Conditions posted at: <https://www.axon.com/legal/sales-terms-and-conditions>, and the terms and conditions of Axon's Master Services and Purchasing Agreement do not apply to this order. You represent that you are lawfully able to enter into contracts and if you are entering into this agreement for an entity, such as the company, municipality, or government agency you work for, you represent to Axon that you have legal authority to bind that entity. If you do not have this authority, do not sign this Quote.

Axon's Sales Terms and Conditions

This Quote is limited to and conditional upon your acceptance of the provisions set forth herein and Axon's Master Services and Purchasing Agreement (posted at www.axon.com/legal/sales-terms-and-conditions), as well as the attached Statement of Work (SOW) for Axon Fleet and/or Axon Interview Room purchase, if applicable. Any purchase order issued in response to this Quote is subject solely to the above referenced terms and conditions. By signing below, you represent that you are lawfully able to enter into contracts. If you are signing on behalf of an entity (including but not limited to the company, municipality, or government agency for whom you work), you represent to Axon that you have legal authority to bind that entity. If you do not have this authority, please do not sign this Quote.

Signature: _____ **Date:** _____
Name (Print): _____ **Title:** _____
PO# (Or write N/A): _____

Please sign and email to Adam Smith at asmith@taser.com or fax to (480) 463-2201

Thank you for being a valued Axon customer. For your convenience on your next order, please check out our online store buy.axon.com

Quote: Q-188545-43472.787AS

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Certificate of Destruction

IMPORTANT

Customer certifies that all Products will be removed from service to be destroyed and/or rendered permanently nonfunctional. Products must not be resold or redistributed. Destruction of Products should be performed according to Customer's policy. Axon is not responsible for Product warranty or any liability related to Products certified as destroyed, and reserves the right to require verification that destruction has been performed.

The undersigned represents and warrants that he/she is duly authorized and has legal capacity to execute and deliver this Certificate of Destruction on behalf of the Agency.

Tyngsborough Police Dept. - MA

Product(s) to be Destroyed	Quantity
Signature	Date
Name (Print)	Title

Return this signed form, and your purchase order/quote (if applicable) to your sales representative and our returned materials authorization department at rma@axon.com.

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Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name Town Hall HVAC System	Item Requested Town Hall HVAC System
Department Name TA / Board of Selectmen	Submitted by Justin Sultzbach
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> \$65,000	Is this a replacement item? <i>(Yes/No)</i> Yes
Fiscal year needed 2020	Expected life of new item 20 years

Please use the project narrative box on Page 2 to provide a detailed description

This is the department's opportunity to persuade the CAMC to approve their request. It is recommended that this be completed with as much detail and relevant information as possible. Please include: **1.** Complete description of the project, **2.** Why it is being requested **3.** What is being done with the replaced item (if applicable) and the anticipated salvage value, **4.** Other funding sources available (grants, donations, special revenue funds, etc.), **5.** Expected annual maintenance costs, and **6.** How the project will ultimately benefit the Department, Town, and Citizens of Tyngsborough.



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FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

Town Hall recently passed the 20 year mark. This means that mechanical systems for the building have reached their life expectancy. The heat of last summer exposed the deficiencies in our aging equipment. A majority of the Library did not have air conditioning from July through August due to the failure of several air handlers. On the other side of things, the bitter cold of this winter has made it difficult to heat some of our offices consistently above 66 degrees.

The failure of some furnaces and air handlers to work at 100% has placed an increased burden on our "good" equipment - meaning that shortly all systems will fail. Our team has done an excellent job of patching and maintaining the current system when possible, but the current system is too far gone to repair in a traditional sense. Because of this, we are requesting a full replacement of our furnaces and air handlers. We will also be trying to carve out some of this cost through the Green Communities Grant program with the state.

March 15, 2019

Town of Tyngsborough
25 Bryant Lane
Tyngsborough, MA 01879
Attn: Justin Sultzbach

Project: G-6822 – Tyngsborough Town Hall Duct Heater Upgrade Project Summary

Dear Justin,

We are pleased to provide you with the following Project Summary that you can utilize to submit for the 2019 Green Community competitive grant. In reviewing the opportunity to improve the energy efficiency and reduce operational costs for your facility, we are proposing the attached retrofit measures for your consideration.

A summary of our recommended project from a financial perspective is listed below:

Measure Description	Estimated Annual Savings			Installed Cost	Estimated Incentive	Net Cost
	kWh Saved	Therms Saved	Total Savings			
Duct Heater Upgrade	21,383	2,201	\$4,940	\$99,978	\$2,500	\$97,478

If you have any questions, or if you would like to discuss specifics, please contact me directly at (781) 853-3881. Thank you again for the opportunity to provide this proposal to you. We will look forward to working with you on this project.

Sincerely,
Dalton Kimball
Energy Efficiency Specialist, Municipal
Email: dalton@guardian-energy.com
Direct: (781) 853-3881

DUCT HEATER REPLACEMENT PROJECT SUMMARY

Energy Audit Summary

There are (4) existing Air Handling Units (AHUs) with downstream natural gas 70% AFUE in-line duct furnaces and integral direct expansion (DX) cooling coils, tied into remote split system condensing units. For the purpose of this evaluation, all cooling is assumed to be 7 SEER and heating is assumed to be 70% AFUE. The cooling is believed to be 12-tons, 6-ton, 6-ton, and 7-1/2-ton respectively for AHU-1-4. The heating is believed to be 300-MBH, 140-MBH, 140-MBH, and 200-MBH input respectively for AHU-1-4. Return ductwork is throttling. AHU-1 and AHU-4 have humidifiers that are not functional.

Proposed Description

Furnish and install (4) new split systems. New systems to include a twinned set of 93% AFUE, sealed combustion condensing horizontal gas furnaces, with matched DX cooling coils and 17 SEER remote condensing units. The new capacities will be:

- AHU-1 - 300-MBH heat, 10-ton cooling
- AHU-1 - 120-MBH heat, 6-ton cooling
- AHU-3 - 120-MBH heat, 6-ton cooling
- AHU-4 - 160-MBH heat, 8-ton cooling

All units will have twinned evaporators. Work to include disconnect/reconnect including: gas piping, flue piping, refrigerant piping (including recovery), condensate drain piping, ductwork, insulation, power wiring, and control wiring. Ductwork to be reworked to allow for usable filter racks.

Energy Savings Basis

Natural gas savings will result from the implementation of higher efficiency, condensing furnaces. Electrical savings will result from the implementation of higher efficiency condensing units.

FINANCIAL SUMMARY

Return on Investment Estimates	
Simple ROI Rate	5.1%
Payback Timeframe (years)	19.7
Total Cost Savings	\$4,940

Project Nat. Gas Savings Information	
Total Annual Gas Usage	10,817
Rate per Therm	\$1.15
Annual Therms Saved	2,201
Total Annual Cost Savings	\$2,442

Project Electric Savings Information	
Total Annual Electric Usage	205,636
Rate per kWh	\$1.135
Annual kWh Saved	21,283
Total Annual Cost Savings	\$4,940

SCOPE OF WORK DETAIL

Project Overview

- Demolish and remove (4) duct furnaces, flues, and portions of associated ductwork as need.
- Demolish and remove power and control wiring.
- Demolish and remove refrigerant piping and reclaim refrigerant.
- Furnish and install (1) 300-MBH sealed combustion condensing furnace.
- Furnish and install (2) 120-MBH sealed combustion condensing furnaces.
- Furnish and install (1) 160-MBH sealed combustion condensing furnace.
- Furnish and install (1) 10 ton condensing unit and associated DX cooling coil.
- Furnish and install (2) 6 ton condensing units and associated DX cooling coils.
- Furnish and install (1) 8 ton condensing unit and associated DX cooling coil.
- Furnish and install ductwork as needed to connect to remaining, existing ductwork.
- Furnish and install flue and refrigerant piping.
- Furnish and install (4) 7-day programmable thermostats
- Furnish and install power and control wiring.
- Start up, balancing and testing.

Installation Requirements

- Installation timelines are subject to product availability. To help ensure timely scheduling, please submit your order to Guardian on or before September 1, 2019. We cannot guarantee timely receipt of material or labor availability for orders received after this date (which can impact customers interested in applying for the next competitive grant round).
- Customer understands that equipment installation may require shut down periods. For this project, we estimate **the total shut down duration will be approximately 2 weeks**. Our pricing assumes this work can be completed within a 3-week window, so it will be very important to schedule this project accordingly during the heating season or wait until the heating season has passed so there is no potential disruption to the occupants.

General Assumptions

- The HVAC system and piping is presumed to be made asbestos free prior to project.
- Information provided by customer (drawings etc.) assumed to be correct and up-to-date.
- Existing HVAC system and equipment is assumed to be functional.
- Work to perform the project shall occur within typical working hours (6:00 a.m. - 6:00 p.m. Monday through Friday) in full-day continuous periods. Requests for labor to be performed outside of these hours should be made in advance so that Guardian may reprice the work accordingly or issue a change order.
- Prices reflect current market rates for product and availability. A final order form will be provided by Guardian to place your order. Please understand that Guardian does not have control over product costs or changes in the market due to governmental regulations or tariffs on equipment or material. Our goal is to hold our pricing, but we cannot guarantee pricing for more than 60 days from the date of this project summary.
- We are providing our best estimate for the utility incentive on this project. This is based on prior projects and the incentives available through the utility incentive program.

Exclusions

- Excludes costs for any required detail (fire, security, etc.).

Customer Requirements

- Customer will provide a point of contact and unimpeded access to the work site, as well as unobstructed access to all fixtures on the scheduled day(s) of installation. Customer delays related to the installation of the project may result in additional costs being addressed via a change order. A Guardian Project Manager will discuss scheduling and provide updates on an ongoing basis.
- Customer will provide the most current Prevailing Wage Rate sheet to Guardian at the time the order is placed, with updated rates as required.
- If the customer is tax exempt, the Customer will provide Guardian with an ST-5C tax exemption documentation at the time the order is placed.
- Guardian may require the use of a dumpster and/or storage container on site. The customer will work with Guardian to provide a location that is acceptable for both parties.

Stop Wasting
Energy.

Start Saving
Money.™

March 15, 2019

Town of Tyngsborough
25 Bryant Lane
Tyngsborough, MA 01879
Attn: Justin Sultzbach

Project: G-6879 – Tyngsborough Town Hall Furnace Upgrade Project Summary

Dear Justin,

We are pleased to provide you with the following Project Summary that you can utilize to submit for the 2019 Green Community competitive grant. In reviewing the opportunity to improve the energy efficiency and reduce operational costs for your facility, we are proposing the attached retrofit measures for your consideration.

A summary of our recommended project from a financial perspective is listed below:

Measure Description	Estimated Annual Savings			Installed Cost	Estimated Incentive	Net Cost
	kWh Saved	Therms Saved	Total Savings			
Furnace Upgrade	9,885	944	\$2,206	\$84,221	\$1,300	\$82,921

If you have any questions, or if you would like to discuss specifics, please contact me directly at (781) 853-3881. Thank you again for the opportunity to provide this proposal to you. We will look forward to working with you on this project.

Sincerely,
Dalton Kimball
Energy Efficiency Specialist, Municipal
Email: dalton@guardian-energy.com
Direct: (781) 853-3881

FURNACE REPLACEMENT PROJECT SUMMARY

Energy Audit Summary

There are (4) existing horizontal gas fired, atmospherically vented gas furnaces with add on split system direct expansion (DX) cooling. These systems are not ducted properly resulting in improper airflow. Filters are inaccessible, return air is throttled down, and service/maintenance is difficult. The existing furnaces are 70 % AFUE. The (2) 4-ton and (2) 5-ton DX cooling systems are estimated at approximately 7 SEER. (3) of the furnaces have model numbers that are inaccessible but it is believed that (2) operate at 80-MBH and (2) at 115-MBH input. Fresh air is marginal but exists.

Proposed Description

We propose to furnish and install (4) horizontal replacement 93% AFUE gas fired, sealed combustion condensing furnaces with matched DX evaporator coils and remote air cooled 17 SEER condensing units. The new units will be (2) 130-MBH and (2) 80-MBH input furnaces with oversized variable speed evaporator fans and (2) 4-ton and (2) 5-ton condensing units. The new systems will have appropriately sized return and fresh air ductwork as well as functional and accessible filters.

All work to include the disconnect/reconnect of the following: power wiring, control wiring, gas piping, flue piping, ductwork, refrigerant piping (including recovery), and condensate drain piping.

Energy Savings Basis

Natural gas savings will result from the implementation of higher efficiency, condensing furnaces. Electrical savings will result from the implementation of higher efficiency condensing units.

FINANCIAL SUMMARY

Return on Investment Estimates	
Simple ROI Rate	2.7%
Payback Timeframe (years)	37.6
Total Cost Savings	\$2,206

Project Nat. Gas Savings Information	
Total Annual Gas Usage	10,817
Rate per Therm	\$1.15
Annual Therms Saved	944
Total Annual Cost Savings	\$1,072

Project Electric Savings Information	
Total Annual Electric Usage	205,636
Rate per kWh	\$1.135
Annual kWh Saved	9,885
Total Annual Cost Savings	\$1,134

SCOPE OF WORK DETAIL

Project Overview

- Demolish and remove (4) furnaces, flues, and portions of associated ductwork as need.
- Demolish and remove power and control wiring.
- Demolish and remove refrigerant piping and reclaim refrigerant.
- Furnish and install (2) 80-MBH sealed combustion condensing furnaces.
- Furnish and install (2) 130-MBH sealed combustion condensing furnaces.
- Furnish and install (2) 4 ton condensing units and associated DX cooling coils.
- Furnish and install (2) 5 ton condensing units and associated DX cooling coils.
- Furnish and install ductwork as needed to connect to remaining, existing ductwork.
- Furnish and install flue and refrigerant piping.
- Furnish and install (4) 7-day programmable thermostats
- Furnish and install power and control wiring.
- Start up, balancing and testing.

Installation Requirements

- Installation timelines are subject to product availability. To help ensure timely scheduling, please submit your order to Guardian on or before September 1, 2019. We cannot guarantee timely receipt of material or labor availability for orders received after this date (which can impact customers interested in applying for the next competitive grant round).
- Customer understands that equipment installation may require shut down periods. For this project, we estimate **the total shut down duration will be approximately 2 weeks**. Our pricing assumes this work can be completed within a 3-week window, so it will be very important to schedule this project accordingly during the heating season or wait until the heating season has passed so there is no potential disruption to the occupants.

General Assumptions

- The HVAC system and piping is presumed to be made asbestos free prior to project.
- Information provided by customer (drawings, etc.) assumed to be correct and up-to-date.
- Existing HVAC system and equipment is assumed to be functional.
- Work to perform the project shall occur within typical working hours (6:00 a.m. - 6:00 p.m. Monday through Friday) in full-day continuous periods. Requests for labor to be performed outside of these hours should be made in advance so that Guardian may reprice the work accordingly or issue a change order.
- Prices reflect current market rates for product and availability. A final order form will be provided by Guardian to place your order. Please understand that Guardian does not have control over product costs or changes in the market due to governmental regulations or tariffs on equipment or material. Our goal is to hold our pricing, but we cannot guarantee pricing for more than 60 days from the date of this project summary.
- We are providing our best estimate for the utility incentive on this project. This is based on prior projects and the incentives available through the utility incentive program.

Exclusions

- Excludes costs for any required detail (fire, security, etc.).

Customer Requirements

- Customer will provide a point of contact and unimpeded access to the work site, as well as unobstructed access to all fixtures on the scheduled day(s) of installation. Customer delays related to the installation of the project may result in additional costs being addressed via a change order. A Guardian Project Manager will discuss scheduling and provide updates on an ongoing basis.
- Customer will provide the most current Prevailing Wage Rate sheet to Guardian at the time the order is placed, with updated rates as required.
- If the customer is tax exempt, the Customer will provide Guardian with an ST-5C tax exemption documentation at the time the order is placed.
- Guardian may require the use of a dumpster and/or storage container on site. The customer will work with Guardian to provide a location that is acceptable for both parties.



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name District Wide Phone/Clocks/Alarms	Item Requested District Wide Phone/Clocks/Alarms
Department Name School Dept.	Submitted by Ryan Guthrie
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> \$125,000	Is this a replacement item? <i>(Yes/No)</i> Yes
Fiscal year needed 2020	Expected life of new item 20 Years

Please use the project narrative box on Page 2 to provide a detailed description

This is the department's opportunity to persuade the CAMC to approve their request. It is recommended that this be completed with as much detail and relevant information as possible. Please include: **1.** Complete description of the project, **2.** Why it is being requested **3.** What is being done with the replaced item (if applicable) and the anticipated salvage value, **4.** Other funding sources available (grants, donations, special revenue funds, etc.), **5.** Expected annual maintenance costs, and **6.** How the project will ultimately benefit the Department, Town, and Citizens of



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

The district wide phone, clock and alarm project is a general update project. Currently the phone system is plagued with multiple issues from static, constant phone failure and a complete loss of the voicemail system. The system is antiquated and unserviceable, which poses a safety issue to students and staff in the event of an emergency. The clocks and alarms are part of this project simply because the systems are linked and have developed their own issues and problems over the life of the schools.



Customer Name: **Tyngsborough High School and Central Office**
Address Line 1: 36 Norris Road
City/State/Zip: Tyngsborough, MA. 01879
Contact Name: Derek Piper
Contact Number: 978-649-7488 x1012
Contact Email:

SCOPE

Proposal for an NEC SV9100 Telephone System, to be installed at Tyngsborough High School and Central Office location, configured as follows:

- Support up to 4 CO Ports
- Support 1 PRI
- Support up to 32 Digital Sets (27 used)
- Support 70 Analog endpoints (70 Sets supplied and installed by customer)
- Support 16 port UM voice mail with 110 mailboxes
- Support 24 channels IPCCIS to Middle and Elementary Schools

This quote also includes:

- Full 1st Year Parts and Labor Warranty coverage.
- Full 5 Year Parts Warranty on starred items
- 5 Year SWA
- Database gathering, installation & programming and training.

System

QTY	Part Number	Unit Name	Unit	Total
4	390185	ETHERNET CABLE - BLACK 7'	8.00	\$32.00
8	A20-030439-001	INSTALLATION CABLE	36.00	\$288.00
2	BE108405	CHS2U RACK MOUNT KIT	27.50	\$55.00
1	BE108414	CHS2U Joint Bracket Kit	27.50	\$27.50
1	* BE112986	CHS2UG-US	357.50	\$357.50
1	* BE113016	GPZ-BS10	198.00	\$198.00
1	* BE113017	GPZ-BS11	176.00	\$176.00
2	* BE113020	GCD-16DLCA	302.50	\$605.00
1	* BE113029	GCD-4COTB	118.25	\$118.25
1	* BE113037	GCD-PRTA	632.50	\$632.50
1	* BE113046	GCD-VM00	904.75	\$904.75
0	* BE113434	GCD-4LCF	159.50	\$0.00
5	* BE113435	GCD-8LCF	302.50	\$1,512.50
0	* BE113436	GPZ-4LCF	154.00	\$0.00
4	* BE113437	GPZ-8LCF	297.00	\$1,188.00
12	* BE113805	DTZ-12D-3(BK)TEL in package	0.00	\$0.00
11	* BE113805	DTZ-12D-3(BK)TEL	143.00	\$1,573.00
2	* BE113807	DTZ-24D-3(BK)TEL	162.25	\$324.50
2	BE113813	DCZ-60-2(BK)CONSOLE	124.30	\$248.60
140	BE114042	Resource License-01	5.50	\$770.00
24	BE114066	Networking License-01	51.15	\$1,227.60
202	BE115105	SWA PSA SV9100 UNIT	7.80	\$1,575.60
2	BE115923	AC-Z UNIT	24.75	\$49.50
102	BE116416	SV91 VOICEMAIL BOX - LICENSE 1	16.50	\$1,683.00
1	Q24-DN000000106299	FIVE YEAR PARTS WARRANTY	1081.71	\$1,081.71
1	* Q24-FR000000107058	SV9193-UM-8G APP CF	400.00	\$400.00
1	Q24-FR000000107278	DESI ITZ/DTZ-12D-24D (25)	13.20	\$13.20
1	* Q24-UW000000107852	SV9100E 12 Phone Package	3492.50	\$3,492.50
1	1203022L1	ADTRAN T1 CSU ACE	426.62	\$426.62
1	WM-15-18	15U DATA RACK	177.32	\$177.32
1	BR1000G	APC BR1000G UPS	178.45	\$178.45
2	S110DX1-100RFT	110 BLOCK 100 PAIR	61.59	\$123.18
20	CAT64AB	ERICO 4IN J HOOK (10)	6.12	\$122.40
1940	7023724	2 pair, crosswire (1000)	0.08	\$155.20
20	PLT7LH-L	7" nylon	0.36	\$7.20
1	SRW208G-K9	CISCO 8 PORT 10/100 SWITCH	221.61	\$221.61
1		Install labor for Quiet Time		\$0.00
1		ADMINISTRATIVE TRAINING		\$0.00
70		REUSE OF EXISTING ELECTRONICS		\$0.00
97		REUSE OF STATION CABLE =		\$0.00
				\$0.00

Project Summary

State	Equipment	\$19,946.19
MA	Professional Services - Standard Labor Rates	\$8,888.00
	Professional Services - Prevailing Wage Labor Rates	\$11,110.00
	Shipping	\$125.00
	Grand Total	\$40,069.19

Contractor:

1/5/2018

Client:

Service is included in our proposal for the first year. Beyond this time, service is available either as an all-inclusive service contract or on a per-call-plus-parts basis. 30% Payable on signing of Sales Agreement, 30% on project start date & 40% at cutover or in service date.

Ask us about our other services: Broadcasting & Public Access TV Systems, Cabling Installation - Voice and Data, Clocks Bells & Intercoms, Digital Signage Solutions, Digital Video Display Systems, Mass Notification Systems, Gunshot Detection Systems, Security & Surveillance Systems, SMART Classroom Solutions, Sound Masking Solutions, Sound Systems, Network Services - Phone, Internet & Data, Telephone Systems - Traditional & Hosted, Video Conferencing & More.... We are your SINGLE-SOURCE for Technology Integration

State Contracts: MA: OFF30, FAC64, ITT50; CT: 13PSX0090, B-05-019 | State Licenses: MA: #1350-C; CT: #CT-C5-192407; RI: #RI-TSC-46
Affirmative Action / Equal Opportunity Employer

Conditional Sales Agreement

The system guarantee does not cover damages to or failure of the system resulting from causes other than wear and tear from normal use, including, but not limited to misuse, negligence, accident, theft, or unexplained loss, abuse, connection to direct current, fire, lightning, flood, wind, Acts of God or the Public Enemy, or improper wiring, installation, failure of Telco facilities, repair or alteration by anyone other than VALLEY. Any repair, re-connection, or resetting of Valley Communications-supplied equipment due to a failure or fault of customer equipment or network including, but not limited to, Local Area Network (LAN), Wide Area Network (WAN), Network Interface Cards, Data Switches, Hubs, CSUs, Routers, PCs, and servers will be charged at time and material rates.

Minor programming adjustments may be made to the system by Valley Communications at no charge for up to 14 days following cutover.

VALLEY agrees to keep this equipment free from all liens, security interests, encumbrances, and in good working order and repair while VALLEY holds the title.

VALLEY will retain title to this equipment until full payment on the contract is received. Until such time as VALLEY receives full and final payment on this contract, buyer agrees to maintain adequate insurance coverage on the equipment under this contract sufficient to the amount of this contract. VALLEY may, upon notification to the buyer, enter his premises, remove the equipment and repossess same, if payment is not received as agreed.

FOR A T-1/PRI IMPLEMENTATION

8 hours will be allocated for connection and testing to a vendor-supplied T-1 or PRI/ISDN facility. Additional hours required for implementation through no fault of Valley Communications will be charged at contract hourly rates. FOR USE OF CUSTOMER-OWNED CABLING

Where existing telephone cabling is being reused, it is assumed that cables can be reused by cross connection to the existing cross-connect panel. Any additional testing, re-jacking, re-termination, and re-cabling required by Valley Communications to facilitate the use of existing cables will be charged at time and material rates.

FOR USE OF CUSTOMER-OWNED DATA CABLING (Cat 5, 5E, 6 Equivalent)

It is assumed that these cables have been terminated, tested and certified to standard data cabling specifications. Any termination and testing required by Valley Communications in order to use these cables will be charged at time and material rates.

Unless otherwise stated, installation will be performed during regular business hours (8:00 a.m. to 4:30 p.m.)

Unless authorized by Valley Communications, the buyer will not make hardware and software changes to the system prior to cutover and turn over of the system to them.

Payment to be made as follows:

A. 30% Payable on signing of Sales Agreement ; 30% on project start date; 40% at cutover or in service date .

B. FINANCING THROUGH LENDING INSTITUTION - Payment to VALLEY to be made in full on cutover. (When a financing arrangement is to be used, VALLEY must be contacted by lending institution stating their acceptance before ordering of equipment or commencement of system installation.)



Customer Name: **Tyngsborough Middle School**
 Address Line 1: 50 Norris Road
 City/State/Zip: Tyngsborough, MA. 01879
 Contact Name: Derek Piper
 Contact Number: 978-649-7488 x1012
 Contact Email:

SCOPE

Proposal for an NEC SV9100 Telephone System, to be installed at Tyngsborough Middle School location, configured as follows:

- Support up to 4 CO Ports
- Support up to 24 Digital Sets (17 used)
- Support 50 Analog endpoints (50 Sets supplied and installed by customer)
- Support 95 mailboxes on High School Voice Mail System
- Support 12 channels IPCCIS to High and Elementary Schools

This quote also includes:

- Full 1st Year Parts and Labor Warranty coverage.
- Full 5 Year Parts Warranty on starred items
- 5 Year SWA
- Database gathering, installation & programming and training.

System

QTY	Part Number	Unit Name	Unit	Total
4	390185	ETHERNET CABLE - BLACK 7'	8.00	\$32.00
8	A20-030439-001	INSTALLATION CABLE	36.00	\$288.00
2	BE108405	CHS2U RACK MOUNT KIT	27.50	\$55.00
1	BE108414	CHS2U Joint Bracket Kit	27.50	\$27.50
1	* BE112986	CHS2UG-US	357.50	\$357.50
1	* BE113016	GPZ-BS10	198.00	\$198.00
1	* BE113017	GPZ-BS11	176.00	\$176.00
1	* BE113018	GCD-8DLCA	159.50	\$159.50
1	* BE113020	GCD-16DLCA	302.50	\$302.50
1	* BE113029	GCD-4COTB	118.25	\$118.25
0	* BE113037	GCD-PRTA	632.50	\$0.00
0	* BE113046	GCD-VM00	904.75	\$0.00
1	* BE113434	GCD-4LCF	159.50	\$159.50
3	* BE113435	GCD-8LCF	302.50	\$907.50
0	* BE113436	GPZ-4LCF	154.00	\$0.00
3	* BE113437	GPZ-8LCF	297.00	\$891.00
12	* BE113805	DTZ-12D-3(BK)TEL in package	0.00	\$0.00
1	* BE113805	DTZ-12D-3(BK)TEL	143.00	\$143.00
2	* BE113807	DTZ-24D-3(BK)TEL	162.25	\$324.50
2	BE113813	DCZ-60-2(BK)CONSOLE	124.30	\$248.60
76	BE114042	Resource License-01	5.50	\$418.00
12	BE114066	Networking License-01	51.15	\$613.80
202	BE115105	SWA PSA SV9100 UNIT	7.80	\$1,575.60
2	BE115923	AC-Z UNIT	24.75	\$49.50
95	BE116416	SV91 VOICEMAIL BOX - LICENSE 1	16.50	\$1,567.50
1	Q24-DN000000108299	FIVE YEAR PARTS WARRANTY	653.59	\$653.59
0	* Q24-FR000000107058	SV9193-UM-8G APP CF	400.00	\$0.00
1	Q24-FR000000107278	DESI ITZ/DTZ-12D-24D (25)	13.20	\$13.20
1	* Q24-UW000000107852	SV9100E 12 Phone Package	3492.50	\$3,492.50
0	1203022L1	ADTRAN T1 CSU ACE	428.62	\$0.00
1	WM-15-18	15U DATA RACK	177.32	\$177.32
1	BR1000G	APC BR1000G UPS	178.45	\$178.45
2	S110DX1-100RFT	110 BLOCK 100 PAIR	61.59	\$123.18
20	CAT64AB	ERICO.4IN J HOOK (10)	6.12	\$122.40
1340	7023724	2 pair, crosswire (1000)	0.08	\$107.20
20	PLT7LH-L	7" nylon	0.36	\$7.20
1	SRW208G-K9	CISCO 8 PORT 10/100 SWITCH	221.61	\$221.61
1		Install labor for Quiet Time		\$0.00
1		ADMINISTRATIVE TRAINING		\$0.00
50		REUSE OF EXISTING ELECTRONICS		\$0.00
67		REUSE OF STATION CABLE =		\$0.00

Project Summary

State	Equipment	\$13,709.40
MA	Professional Services - Standard Labor Rates	\$6,072.00
	Professional Services - Prevailing Wage Labor Rates	\$7,590.00
	Shipping	\$125.00
	Grand Total	\$27,496.40

Contractor:

1/5/2018

Client:

Service is included in our proposal for the first year. Beyond this time, service is available either as an all-inclusive service contract or on a per-call-plus-parts basis. 30% Payable on signing of Sales Agreement, 30% on project start date & 40% at cutover or in service date.

Ask us about our other services: Broadcasting & Public Access TV Systems, Cabling Installation - Voice and Data, Clocks Bells & Intercoms, Digital Signage Solutions, Digital Video Display Systems, Mass Notification Systems, Gunshot Detection Systems, Security & Surveillance Systems, SMART Classroom Solutions, Sound Masking Solutions, Sound Systems, Network Services - Phone, Internet & Data, Telephone Systems - Traditional & Hosted, Video Conferencing & More... We are your SINGLE-SOURCE for Technology Integration

State Contracts: MA: OFF30, FAC64, ITT50; CT: 13PSX0090, B-05-019 | State Licenses: MA: #1350-C; CT: #CT-C5-192407; RI: #RI-TSC-46
Affirmative Action / Equal Opportunity Employer

Conditional Sales Agreement

The system guarantee does not cover damages to or failure of the system resulting from causes other than wear and tear from normal use, including, but not limited to misuse, negligence, accident, theft, or unexplained loss, abuse, connection to direct current, fire, lightning, flood, wind, Acts of God or the Public Enemy, or improper wiring, installation, failure of Telco facilities, repair or alteration by anyone other than VALLEY. Any repair, re-connection, or resetting of Valley Communications-supplied equipment due to a failure or fault of customer equipment or network including, but not limited to, Local Area Network (LAN), Wide Area Network (WAN), Network Interface Cards, Data Switches, Hubs, CSUs, Routers, PCs, and servers will be charged at time and material rates.

Minor programming adjustments may be made to the system by Valley Communications at no charge for up to 14 days following cutover.

VALLEY agrees to keep this equipment free from all liens, security interests, encumbrances, and in good working order and repair while VALLEY holds the title.

VALLEY will retain title to this equipment until full payment on the contract is received. Until such time as VALLEY receives full and final payment on this contract, buyer agrees to maintain adequate insurance coverage on the equipment under this contract sufficient to the amount of this contract. VALLEY may, upon notification to the buyer, enter his premises, remove the equipment and repossess same, if payment is not received as agreed.

FOR A T-1/PRI IMPLEMENTATION

8 hours will be allocated for connection and testing to a vendor-supplied T-1 or PRI/ISDN facility. Additional hours required for implementation through no fault of Valley Communications will be charged at contract hourly rates. FOR USE OF CUSTOMER-OWNED CABLING

Where existing telephone cabling is being reused, it is assumed that cables can be reused by cross connection to the existing cross-connect panel. Any additional testing, re-jacking, re-termination, and re-cabling required by Valley Communications to facilitate the use of existing cables will be charged at time and material rates.

FOR USE OF CUSTOMER-OWNED DATA CABLING (Cat 5, 5E, 6 Equivalent)

It is assumed that these cables have been terminated, tested and certified to standard data cabling specifications. Any termination and testing required by Valley Communications in order to use these cables will be charged at time and material rates.

Unless otherwise stated, installation will be performed during regular business hours (8:00 a.m. to 4:30 p.m.)

Unless authorized by Valley Communications, the buyer will not make hardware and software changes to the system prior to cutover and turn over of the system to them.

Payment to be made as follows:

A. 30% Payable on signing of Sales Agreement ; 30% on project start date; 40% at cutover or in service date .

B. FINANCING THROUGH LENDING INSTITUTION - Payment to VALLEY to be made in full on cutover. (When a financing arrangement is to be used, VALLEY must be contacted by lending institution stating their acceptance before ordering of equipment or commencement of system installation.)



Customer Name: **Tyngsborough Elementary School**
 Address Line 1: 205 Westford Rd
 City/State/Zip: Tyngsborough, MA. 01879
 Contact Name: Derek Piper
 Contact Number: 978-649-7488 x1012
 Contact Email:

SCOPE

Proposal for an NEC SV9100 Telephone System, to be installed at Tyngsborough Elementary School location, configured as follows:

- Support up to 4 CO Ports
- Support up to 24 Digital Sets (22 used)
- Support 80 Analog endpoints (80 Sets supplied and installed by customer)
- Support 130 mailboxes on High School Voice Mail System
- Support 12 channels IPCCIS to High and Middle Schools

This quote also includes:

- Full 1st Year Parts and Labor Warranty coverage.
- Full 5 Year Parts Warranty on starred items
- 5 Year SWA
- Database gathering, installation & programming and training.

System

QTY	Part Number	Unit Name	Unit	Total
4	390185	ETHERNET CABLE - BLACK 7'	8.00	\$32.00
8	A20-030439-001	INSTALLATION CABLE	36.00	\$288.00
2	BE106405	CHS2U RACK MOUNT KIT	27.50	\$55.00
1	BE106414	CHS2U Joint Bracket Kit	27.50	\$27.50
1	* BE112986	CHS2UG-US	357.50	\$357.50
1	* BE113016	GPZ-BS10	198.00	\$198.00
1	* BE113017	GPZ-BS11	176.00	\$176.00
1	* BE113018	GCD-8DLCA	159.50	\$159.50
1	* BE113020	GCD-18DLCA	302.50	\$302.50
1	* BE113029	GCD-4COTB	118.25	\$118.25
0	* BE113037	GCD-PRTA	632.50	\$0.00
0	* BE113046	GCD-VM00	904.75	\$0.00
0	* BE113434	GCD-4LCF	159.50	\$0.00
5	* BE113435	GCD-8LCF	302.50	\$1,512.50
0	* BE113436	GPZ-4LCF	154.00	\$0.00
5	* BE113437	GPZ-8LCF	297.00	\$1,485.00
12	* BE113805	DTZ-12D-3(BK)TEL in package	0.00	\$0.00
6	* BE113805	DTZ-12D-3(BK)TEL	143.00	\$858.00
2	* BE113807	DTZ-24D-3(BK)TEL	162.25	\$324.50
2	BE113813	DCZ-60-2(BK)CONSOLE	124.30	\$248.60
104	BE114042	Resource License-01	5.50	\$572.00
12	BE114066	Networking License-01	51.15	\$613.80
202	BE115105	SWA PSA SV9100 UNIT	7.80	\$1,575.60
2	BE115923	AC-Z UNIT	24.75	\$49.50
130	BE116416	SV91.VOICEMAIL BOX - LICENSE 1	16.50	\$2,145.00
1	Q24-DN00000106299	FIVE YEAR PARTS WARRANTY	823.97	\$823.97
0	* Q24-FR00000107058	SV9193-UM-8G APP CF	400.00	\$0.00
1	Q24-FR00000107278	DESI ITZ/DTZ-12D-24D (25)	13.20	\$13.20
1	* Q24-UW00000107852	SV9100E 12 Phone Package	3492.50	\$3,492.50
0	1203022L1	ADTRAN T1 CSU ACE	428.62	\$0.00
1	WM-15-18	15U DATA RACK	177.32	\$177.32
1	BR1000G	APC BR1000G UPS	178.45	\$178.45
2	S110DX1-100RFT	110 BLOCK 100 PAIR	61.59	\$123.18
20	CAT64AB	ERICO,4IN J HOOK (10)	6.12	\$122.40
2040	7023724	2 pair, crosswire (1000)	0.08	\$163.20
20	PLT7LH-L	7" nylon	0.36	\$7.20
1	SRW208G-K9	CISCO 8 PORT 10/100 SWITCH	221.61	\$221.61
1		Install labor for Quiet Time		\$0.00
1		ADMINISTRATIVE TRAINING		\$0.00
80		REUSE OF EXISTING ELECTRONICS		\$0.00
102		REUSE OF STATION CABLE =		\$0.00

Project Summary

State	Equipment	\$16,421.78
MA	Professional Services - Standard Labor Rates	\$7,920.00
	Professional Services - Prevailing Wage Labor Rates	\$9,900.00
	Shipping	\$125.00
	Grand Total	\$34,366.78

Contractor:

1/5/2018

Client:

Service is included in our proposal for the first year. Beyond this time, service is available either as an all-inclusive service contract or on a per-call-plus-parts basis. 30% Payable on signing of Sales Agreement, 30% on project start date & 40% at cutover or in service date.

Ask us about our other services: Broadcasting & Public Access TV Systems, Cabling Installation - Voice and Data, Clocks Bells & Intercoms, Digital Signage Solutions, Digital Video Display Systems, Mass Notification Systems, Gunshot Detection Systems, Security & Surveillance Systems, SMART Classroom Solutions, Sound Masking Solutions, Sound Systems, Network Services - Phone, Internet & Data, Telephone Systems - Traditional & Hosted, Video Conferencing & More.... We are your SINGLE-SOURCE for Technology Integration

State Contracts: MA: OFF30, FAC64, ITT50; CT: 13PSX0090, B-05-019 | State Licenses: MA: #1350-C; CT: #CT-C5-192407; RI: #RI-TSC-46
Affirmative Action / Equal Opportunity Employer

Conditional Sales Agreement

The system guarantee does not cover damages to or failure of the system resulting from causes other than wear and tear from normal use, including, but not limited to misuse, negligence, accident, theft, or unexplained loss, abuse, connection to direct current, fire, lightning, flood, wind, Acts of God or the Public Enemy, or improper wiring, installation, failure of Telco facilities, repair or alteration by anyone other than VALLEY. Any repair, re-connection, or resetting of Valley Communications-supplied equipment due to a failure or fault of customer equipment or network including, but not limited to, Local Area Network (LAN), Wide Area Network (WAN), Network Interface Cards, Data Switches, Hubs, CSUs, Routers, PCs, and servers will be charged at time and material rates.

Minor programming adjustments may be made to the system by Valley Communications at no charge for up to 14 days following cutover.

VALLEY agrees to keep this equipment free from all liens, security interests, encumbrances, and in good working order and repair while VALLEY holds the title.

VALLEY will retain title to this equipment until full payment on the contract is received. Until such time as VALLEY receives full and final payment on this contract, buyer agrees to maintain adequate insurance coverage on the equipment under this contract sufficient to the amount of this contract. VALLEY may, upon notification to the buyer, enter his premises, remove the equipment and repossess same, if payment is not received as agreed.

FOR A T-1/PRI IMPLEMENTATION

8 hours will be allocated for connection and testing to a vendor-supplied T-1 or PRI/SDN facility. Additional hours required for implementation through no fault of Valley Communications will be charged at contract hourly rates. FOR USE OF CUSTOMER-OWNED CABLING

Where existing telephone cabling is being reused, it is assumed that cables can be reused by cross connection to the existing cross-connect panel. Any additional testing, re-jacking, re-termination, and re-cabling required by Valley Communications to facilitate the use of existing cables will be charged at time and material rates.

FOR USE OF CUSTOMER-OWNED DATA CABLING (Cat 5, 5E, 6 Equivalent)

It is assumed that these cables have been terminated, tested and certified to standard data cabling specifications. Any termination and testing required by Valley Communications in order to use these cables will be charged at time and material rates.

Unless otherwise stated, installation will be performed during regular business hours (8:00 a.m. to 4:30 p.m.)

Unless authorized by Valley Communications, the buyer will not make hardware and software changes to the system prior to cutover and turn over of the system to them.

Payment to be made as follows:

A. 30% Payable on signing of Sales Agreement ; 30% on project start date; 40% at cutover or in service date .

B. FINANCING THROUGH LENDING INSTITUTION - Payment to VALLEY to be made in full on cutover. (When a financing arrangement is to be used, VALLEY must be contacted by lending institution stating their acceptance before ordering of equipment or commencement of system installation.)



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name TES Roof	Item Requested TES Roof
Department Name School Dept.	Submitted by Ryan Guthrie
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> \$400,000	Is this a replacement item? <i>(Yes/No)</i> Yes
Fiscal year needed 2020	Expected life of new item 30 Years

Please use the project narrative box on Page 2 to provide a detailed description

This is the department's opportunity to persuade the CAMC to approve their request. It is recommended that this be completed with as much detail and relevant information as possible. Please include: **1.** Complete description of the project, **2.** Why it is being requested **3.** What is being done with the replaced item (if applicable) and the anticipated salvage value, **4.** Other funding sources available (grants, donations, special revenue funds, etc.), **5.** Expected annual maintenance costs, and **6.** How the project will ultimately benefit the Department, Town, and Citizens of Tyngsborough.



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

This project is being requested for the pure fact that the roof is now 17 years old and over years has shown extensive issues with shingles detaching and leak issues. This project is a maintenance issue that will protect the towns investment and stop further damage to the building. This project can be broken into phases if needed for financial reasons and be completed over multiple years.



1565 Lakeveiw Ave., Suite 204
 Dracut, MA 01826
 Office: (978) 735-4308 Fax: (978) 735-4327
 Aaron Beaudoin's Cell (978) 807-4336

Name / Address
Tysngsborough Public Schools Attention: Ryan Guthrie 50 Norris Road Tyngsborough, MA 01879 978-649-5763 / 978-204-5134

Date	Estimate #
8/17/2018	2016-790
Job Site	
Tysngsborough Elementry School 208 Westford Rd Tyngsborough, MA 01879	

Proposal

Item	Description	Quantity	Cost	Sub Total
Roof Replacement	-Remove & Replace Roof (Asphalt Only) -Set up tarps to protect siding & grounds -Remove roofing down to roof boards, prep roof (bang in or pull out any protruding nails) -Renail existing sheathing as needed -Apply 6' G.A.F. Stormguard ice & water shield along lower edges of roof(s) and in all valley's and at all roof/wall junctions -Apply G.A.F. TigerPaw synthetic underlayment to remainder of roof area -Install 8" (.025) aluminum drip edge to all perimeter edges of roof's: Green -Replace all applicable pipe flanges -Apply lifetime warranty G.A.F. Timberline HD Architectural shingles to entire roof areas COLOR: Optional (Existing is Weatherwood) -Cut roof ridge open and install continuous G.A.F. Snow Country ridge vent across all roof peaks -Clean up & dispose of all roofing debris -Any rotted wood that needs replacement will be an additional charge *Does not include replacing metal pitched roofs *Pitched roofs included in cost only & are limited to the ones provided in Eagleview repot #24348442 (The report will be forwarded to you) *If you wish to do in 2 phases. *Phase 1: (would include roofs as indicated in Eagleview report as): N, AG, U, A, B, AE, AB, P, O, AH, X *Phase 2 (As indicated in report as): Q, S, Y, Z, T, R, AA, AF, V, C, H, I, W, AD Phase 1 cost = \$196.800.00 Phase 2 cost= *These costs do not add up to total job cost as there are some materials & extra work needed to do in 2 phases *Proposal prices are good for 90 days. After that materials price increases will apply		350,625.00	350,625.00

Acceptance of Proposal: The above prices, specifications, and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified.
 25% due on or before start date. Balance due upon completion. Payments to be made by cash or check, we do accept credit cards but a 2.75% processing fee will apply

Total \$350,625.00

Signature _____





Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name THS Fire Panel	Item Requested THS Fire Panel
Department Name School Dept.	Submitted by Ryan Guthrie
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> \$55,000	Is this a replacement item? <i>(Yes/No)</i> Yes
Fiscal year needed 2020	Expected life of new item 20 Years

Please use the project narrative box on Page 2 to provide a detailed description

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Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

The THS Fire Panel Project is a life safety project that needs to take place. The current system is original from 1992 and has been doctored and kept alive for a number of years now. The system is unserviceable by both Tyngsborough Fire Dept. and our service contractor Mammouth Fire Protection. This replacement will coincide with a duct smoke project that is part of the systems current problems. The ultimate benefit of a properly operating system to the town, is that of the safety of the general population entering the building daily and the ability of our fire dept to minimize damage to THS in the event of smoke or fire.



Mammoth Fire Alarms

Incorporated

Lowell, MA 01854-3126

(978) 934-9130 Sales 1-800-995-9808 Fax (978) 934-9131

QUOTATION

Ryan Guthrie
(978) 204-5134
ryan.guthrie@tyngsboroughps.org

Created: 5/11/2017
Updated: 10/29/2018

Tyngsborough School Department
50 Norris Road
Tyngsborough
MA 01879

THIS QUOTE IS F.O.B.: LOWELL, MA
THIS QUOTE IS VALID FOR SIXTY DAYS

****NOTICE****

Please check against your own takeoff and notify us immediately if you feel any discrepancies exist so that we may revise our quote accordingly.

JOB NAME		CUST. P.O. #	SALESMAN
Tyngsborough High School			BSS-035
36 Norris Road		SHIP VIA	OR.TAKEN
Tyngsborough		Service Department	BSS-035
MA 01879		Sale Taxable?	Class "A"
Fire Alarm		Yes	2,870.00
Class "B"			
QTY	PART #	DESCRIPTION	UNIT AMOUNT

Notes:

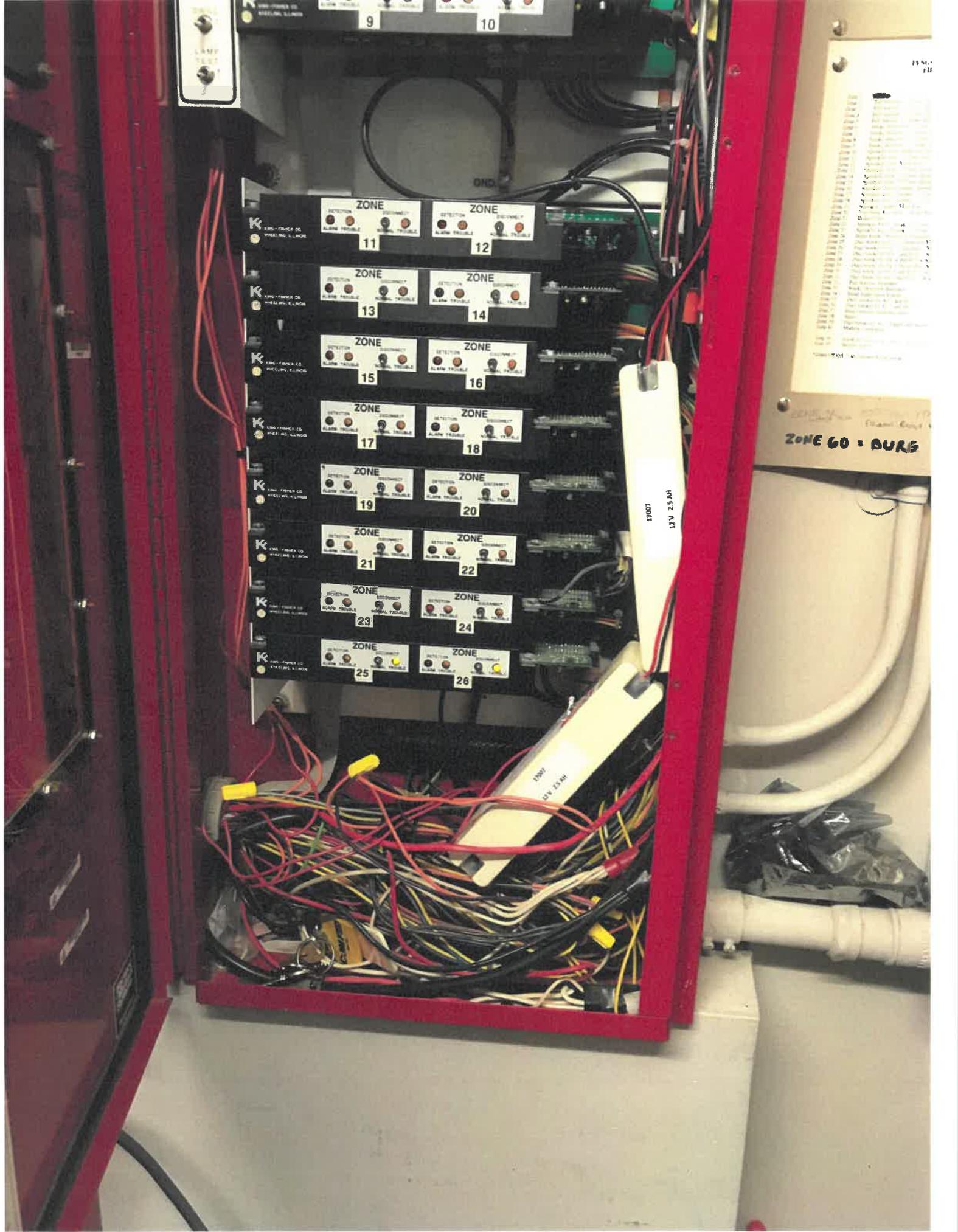
All work performed shall comply with NFPA-70 & NFPA-72 code, local city ordinances and manufacturer published instruction. This quote covers the minimum requirements of the code, but is subject to change by the local authority having jurisdiction. Please note that if the AHJ has additional requirements beyond this scope, this will incur additional costs to bring the system into compliance. MFA is not responsible for any pre-existing wiring conditions or problems with the system that require repair. Repairs will incur additional costs. MFA is not responsible for any painting, patching, chalking or repairs to walls, floors or ceilings. Permit fees are not included in the above price due to varying fees in different municipalities unless specifically listed.

Scope of Work:

1. Pull permit with the Tyngsborough Fire Prevention Office.
2. Replace the existing Kingfisher IRAC panel with a Mircom addressable fire alarm control panel with a Kingfisher 8 zone radio box.
3. Replace all existing conventional duct smoke detectors with new addressable duct smoke detectors.
4. Perform a 100% functional test and inspection of the system.
5. Perform a final acceptance test with the fire inspector.

Accepted by: _____

Date: _____



LAMP TEST

9 10

ZONE 11 ZONE 12

ZONE 13 ZONE 14

ZONE 15 ZONE 16

ZONE 17 ZONE 18

ZONE 19 ZONE 20

ZONE 21 ZONE 22

ZONE 23 ZONE 24

ZONE 25 ZONE 26

12V 2.5 AH

12V 2.5 AH

1550

Zone 1	...
Zone 2	...
Zone 3	...
Zone 4	...
Zone 5	...
Zone 6	...
Zone 7	...
Zone 8	...
Zone 9	...
Zone 10	...
Zone 11	...
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Zone 14	...
Zone 15	...
Zone 16	...
Zone 17	...
Zone 18	...
Zone 19	...
Zone 20	...
Zone 21	...
Zone 22	...
Zone 23	...
Zone 24	...
Zone 25	...
Zone 26	...

ZONE 60 = BURG



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name Phase 2 Sewer Project	Item Requested Utility connections for pump stations
Department Name Sewer Department	Submitted by Kathleen Cayer
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> Thirty Thousand	Is this a replacement item? <i>(Yes/No)</i> No
Fiscal year needed 20	Expected life of new item

Please use the project narrative box on Page 2 to provide a detailed description

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Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

In FY20 the Sewer Department will be budgeting \$30,000 from the Sewer Enterprise Fund for the gas & electric service connections for the two pump stations on the Phase 2 Sewer Project.



Kathy Cayer <kcayer@tyngsboroughma.gov>

Phase 2 budget FY20

Jack Troidl <jtroidl@woodardcurran.com>
To: Kathy Cayer <kcayer@tyngsboroughma.gov>
Cc: Rosemary Blacquier <rblacquier@woodardcurran.com>

Thu, Dec 13, 2018 at 11:18 AM

Kathy -- This is what I have come up with for FY 2020 costs. Note that I didn't list any money for the soil boring probes because I don't anticipate we will do any.

Thanks,

Jack

FY 2020
\$15,000 Utility Fees -- Gas
\$15,000 Utility Fees -- Electric
\$0 Utility Fees - Water
\$0 RR/Flagging Costs -- assumed to be reimbursable by SRF

Phase 2

* \$30,000 estimate from Engineering firm for phase 2 utility connections

\$25,000 General Services (includes IMA support etc.)

\$100,000 W Repairs (Priority 1 defects: includes design, construction, contingency)

Capital line items

From: Kathy Cayer <kcayer@tyngsboroughma.gov>
Sent: Tuesday, December 11, 2018 1:31 PM
To: Jack Troidl <jtroidl@woodardcurran.com>
Subject: Phase 2 budget FY20

[Quoted text hidden]



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name Replace 20+ year old pumps	Item Requested Pumps for pump stations
Department Name Sewer Department	Submitted by Kathleen Cayer
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> Sixty Thousand Six Hundred Ninety Six	Is this a replacement item? <i>(Yes/No)</i> Yes
Fiscal year needed 20	Expected life of new item 20

Please use the project narrative box on Page 2 to provide a detailed description

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Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

Replace sewer pumps as needed at various pump stations
Please note that the quote we received for Flygt pumps in the amount of \$26,389 is for FY19.
I have budgeted for a potential price increase of 15% which would amount to \$30,348. Two
pumps are budgeted in FY20, total amount budgeted for pump replacement= \$60,696

xylem

Xylem Water Solutions USA
Flygt Products

Ronald Orsini
Engineered Sales

78 K Olympia Avenue
Woburn, MA 01801
Tel 781-935-6515
Fax 781-938-0364
ron.orsini@xyleminc.com

Quote # 2018-BOS-0529

October 29, 2018

Re: Flygt Pump # 3201 / 47HP

Tyngsborough Department of Public Works
Kathleen Cayer
25 Bryant Lane
Tyngsborough, MA 01879

Ms. Cayer,

Per your request, Xylem Water Solutions, USA is pleased to offer you the following quotation.

Xylem will provide the following Flygt Equipment,

Flygt 3201 / 47 HP Replacement Pump

One (1) Flygt Electric Submersible Wastewater Pump Model NP3202 185-465 HT equipped with 50' of Electric Cable, and Moisture Leakage Protection. Unit is 45 HP, 460 Volt, Three Phase.

Total \$ 26,388.25



Kathleen Cayer
sewer administrator
Town of Tyngsborough



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name TSC portion of Chelmsford cost study	Item Requested Cost study by Chelms for add'l flow
Department Name Sewer Department	Submitted by Kathleen Cayer
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> Twenty Five Thousand	Is this a replacement item? <i>(Yes/No)</i> No
Fiscal year needed 20	Expected life of new item

Please use the project narrative box on Page 2 to provide a detailed description

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Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

The Tyngsborough Sewer Commission is currently working with the Town of Chelmsford to receive additional sewer flow capacity. As part of the discussions, Chelmsford has asked Tyngsborough to contribute to a portion of their cost study to see if they will need to upgrade their infrastructure if they grant Tyngsborough additional sewer flow capacity through their Southwell Pump Station. At this time, the amount is undetermined. The TSC has budgeted \$25,000 for their portion of potential cost study.



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name Pump grinder replacement	Item Requested Pump grinder replacement at Mascuppic
Department Name Sewer Department	Submitted by Kathleen Cayer
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> Thirteen Thousand Four hundred seventy four	Is this a replacement item? <i>(Yes/No)</i> Yes
Fiscal year needed 20	Expected life of new item 20

Please use the project narrative box on Page 2 to provide a detailed description

This is the department's opportunity to persuade the CAMC to approve their request. It is recommended that this be completed with as much detail and relevant information as possible. Please include: **1.** Complete description of the project, **2.** Why it is being requested **3.** What is being done with the replaced item (if applicable) and the anticipated salvage value, **4.** Other funding sources available (grants, donations, special revenue funds, etc.), **5.** Expected annual maintenance costs, and **6.** How the project will ultimately benefit the Department, Town, and Citizens of Tyngsborough.



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

Replacement of pump grinder at Mascuppic Trail pump station. This equipment is called a "Muffin Monster" and is quoted as \$11,715.50. Sewer Dept has budgeted \$13,474 to include a potential 15% increase in FY20.



Customer Service Center
 2600 S. Garnsey Street
 Santa Ana, CA 92707 USA
 Phone: 949 833-3888
 Toll Free: 800 331-2277
 Fax: 714 549-4007

Customer: 6013419
 Paul Provencher
 Tyngsborough Sewer Department
 25 Bryants Lane
 Tyngsborough, MA 01879
 US

Quote Number: 47258 Rev A
Quote Date: 12/07/2018
Terms: NET 30 DAYS
Pricing: Valid 60 Days
FOB: Origin
Lead Time: 3-4 Weeks ARO One Way
Shipping & Handling Included
Grinder Serial #: G006836-2-1

(978)815-2532

pprovencher@tyngsboroughma.gov

Project: Mascuippic Trail P.S.

All orders will be billed the applicable sales tax, based on the "ship to address", unless a valid tax exemption certificate is provided prior to shipment.

Part Number	Description	Qty	Unit Price	Extended Price
30005-0018	30005-0018-DI Muffin Monster 17T Serrated Cam Cutters with Knurled Spacers 1:1 Stack Hardened Alloy STL BUNA-N Elastomers Cork & Rubber Gaskets Drilled Endhousing Delta-P Siderails Motor Type: Electric Less Spool Less Motor Less Reducer Grinder SN: TBD Paint: Epoxy Green ***** Patented 17T Wipes Ready Cutters and Knurled Spacers for 2D Cutting Patented Optimized Cut Control Gearing Delta-P Siderails	1	\$11,415.50	\$11,415.50
Shipping	Shipping & Handling	1	\$0.00	\$0.00
TARIFF	Tariff Surcharge Recently, the US Government, has implemented the following trade restrictions: Section 232, June 1, 2018: Restrictions on steel mill (25%) and aluminum articles (10%). All countries of origin except Argentina, Australia, Brazil, and South Korea. Section 301, July 6, 2018 Restrictions on products from China, 25% The tariff surcharge represents the increased cost of manufacturing our products as a result of the government-imposed trade restrictions.	1	\$300.23	\$300.23

Please verify serial number is correct.



Customer Service Center
2600 S. Garnsey Street
Santa Ana, CA 92707 USA
Phone: 949 833-3888
Toll Free: 800 331-2277
Fax: 714 549-4007

Sub Total	\$11,715.73
Tax	
Total	\$11,715.73

Notes:

1. Please fax or mail a purchase order for the total amount and we can process your order.
Please include the following:
Billing Address, Ship to Address, and sales tax exemption certificate.
2. Please reference our quote number on your purchase order.
3. Availability of parts are subject to change at any time.
4. 20% restocking fee on all returns.
5. Sales tax is not included in price.
6. JWCE standard one year warranty included except for older models i.e. GTS, MS and SPF models.
7. Call or e-mail with any questions or concerns.

--DEVONNAT

Thank-You for your Business!

JWC Environmental Inc
Devonna Tate
Customer Service



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name Inflow & Infiltration Repairs	Item Requested Initial priority repairs
Department Name Sewer Department	Submitted by Kathleen Cayer
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> One Hundred Thousand	Is this a replacement item? <i>(Yes/No)</i> Yes
Fiscal year needed 20	Expected life of new item 20

Please use the project narrative box on Page 2 to provide a detailed description

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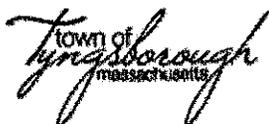


Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

Priority repairs to sewer system from initial I&I study. Estimate from Engineer for FY20 cost \$100,000.



Kathy Cayer <kcayer@tyngsboroughma.gov>

Phase 2 budget FY20

Jack Troidl <jtroidl@woodardcurran.com>
To: Kathy Cayer <kcayer@tyngsboroughma.gov>
Cc: Rosemary Blacquier <rblacquier@woodardcurran.com>

Thu, Dec 13, 2018 at 11:18 AM

Kathy - This is what I have come up with for FY 2020 costs. Note that I didn't list any money for the soil boring probes because I don't anticipate we will do any.

Thanks,

Jack

FY 2020

\$15,000 Utility Fees - Gas

\$15,000 Utility Fees - Electric

\$0 Utility Fees - Water

\$0 RR/Flagging Costs - assumed to be reimbursable by SRF

\$25,000 General Services (includes IMA support etc.)

\$100,000 I/I Repairs (Priority 1 defects: includes design, construction, contingency)

Capital line item

From: Kathy Cayer <kcayer@tyngsboroughma.gov>
Sent: Tuesday, December 11, 2018 1:31 PM
To: Jack Troidl <jtroidl@woodardcurran.com>
Subject: Phase 2 budget FY20

[Quoted text hidden]



Town of Tyngsborough
Capital Asset Management Committee
Capital Project Request Form
FY2020 to FY2024

Project Information

Project Name Portion of design for future sewer	Item Requested Design fees
Department Name Sewer Department	Submitted by Kathleen Cayer
Estimated Cost <i>(Submit quote with form)</i> <i>(Quote must be no more than 1 year old)</i> One Hundred Thousand	Is this a replacement item? <i>(Yes/No)</i> No
Fiscal year needed 20	Expected life of new item

Please use the project narrative box on Page 2 to provide a detailed description

This is the department's opportunity to persuade the CAMC to approve their request. It is recommended that this be completed with as much detail and relevant information as possible. Please include: **1.** Complete description of the project, **2.** Why it is being requested **3.** What is being done with the replaced item (if applicable) and the anticipated salvage value, **4.** Other funding sources available (grants, donations, special revenue funds, etc.), **5.** Expected annual maintenance costs, and **6.** How the project will ultimately benefit the Department, Town, and Citizens of Tyngsborough.



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Project Narrative

(In addition to your quote, please attach a photo to this form if applicable)

Sewer Commission has budgeted \$100,000 in FY20 for a portion of design for future sewer phase 3, 4 & 5.