

**TOWN OF MARSHFIELD
DRAFT CAPITAL PLANNING PROGRAM
FISCAL YEAR 2018 - 2022**

		Revised: October 13, 2016									
PRIORITY	DEPT	Proj #	PROJECT/PROGRAM	FY 18	FY 19	FY20	FY21	FY22	TOTAL		
1	School	1	21st Century Technology - SW	647,000	412,000				\$ 1,059,000		
1	School	2	Building Security - SW (less MHS)	200,000					\$ 200,000		
1	School	3	Martinson HVAC Controls	100,000					\$ 100,000		
1	School	4	Replacement of Gymnasium Bleachers - MES	25,000					\$ 25,000		
1	School	5	Resilient Flooring/Asbestos Flooring Abatement - SR, DW, EW, GW	100,000	500,000	200,000	300,000		\$ 1,100,000		
2	School	6	ADA Work - GW, DW, EW, SR		1,405,910				\$ 1,405,910		
2	School	7	Bituminous Paving/Curbing - GW, DW, SR, MES		390,780	168,670			\$ 559,450		
2	School	8	Roof & Skylights Martinson Elementary			2,500,000			\$ 2,500,000		
GRAND TOTAL				1,072,000	2,708,690	2,868,670	300,000	0	6,949,360		

TOWN OF MARSHFIELD CAPITAL BUDGET
 DEPARTMENTAL PROJECT PRIORITIZATION
 FISCAL YEAR 2018-2022

DEPARTMENT: SCHOOL

ITEM	PRIORITY	FISCAL YEAR	PROJECT TITLE AND DESCRIPTION	AMOUNT REQUESTED
1	1	2018	21st Century Technology - SW	1,059,000
2	1	2018	Building Security - SW (less MHS)	200,000
3	1	2018	Martinson HVAC Controls	\$ 100,000
4	1	2018	Replacement of Gymnasium Bleachers - MES	\$ 25,000
5	1	2018	Resilient Flooring/Asbestos Flooring Abatement - SR, DW, EW, GW	\$ 1,100,000
6	2	2019	ADA Work - GW, DW, EW, SR	\$ 1,405,910
7	2	2019	Bituminous Paving/Curbing - GW, DW, SR, MES	\$ 559,450
8	2	2020	Roof & Skylights Martinson Elementary	\$ 2,500,000

TOWN OF MARSHFIELD CAPITAL BUDGET NEW PROJECT REQUEST FISCAL YEAR 2018

Department: School Priority: 1

Project Title and Description: 21st Century Technology - SW

Basis of Estimated Costs (attach additional information if available)		Estimated Cost	Capital	O&M
Capital:				
Planning and Design			\$ 647,000	
Labor and Materials	\$ 1,059,000		\$ 412,000	
Administration			\$ -	
Land Acquisition				
Equipment				
Other				
Contingency				
Total Capital	\$ 1,059,000			

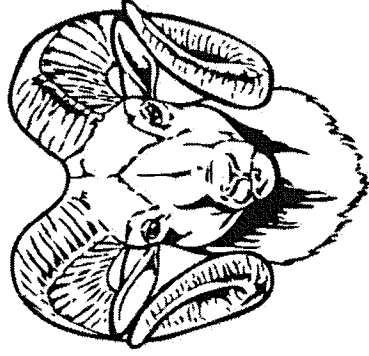
Operating Costs:	One Time	Annual
Personnel		
Expense		
Other		
Total O&M		

Project Justification and Objective:

Within the constraints of this limited operating budget, the District has managed to update computer systems through a computer rotation schedule. Unfortunately, this only allows the District to remain afloat with regard to computer systems and we are unable to address the much needed technology infrastructure that is needed in the 21st Century classroom. This proposal is designed to bring the District's other six schools in line with the technology deployed in Marshfield High School. The technology purchases are aligned with the budget proposed in the Financial Review in the attached Technology Plan 2016-2019.

Last year, the District presented a proposal for \$375,000 for SY17 and was granted \$150,000 through Annual Town Meeting. The \$225,000 unfunded has been rolled over into the SY18 proposal. The SY17 items not funded included the Grade 7 and Grade 5 Classroom Projection Systems and \$81,000 in Classroom Computer Replacement. The remaining \$422,000 is presented in the SY18 Chart in the Financial Review in the Technology Plan.

Marshfield Public Schools Technology Plan 2016-2019



Committee Members:

David Cawthorne, Director of Technology
Jason Soslow, Coordinator of Instructional Technology
 John Mills, FBMS Assistant Principal
Aimee McAlpine, HS Instructional Technology Specialist
Brie Gaffney, MS Instructional Technology Specialist
 Amy Fultz, Elementary Assistant Principal
 John Cook, Elementary Integration Specialist

Mission Statement:

The Marshfield Public School system acknowledges the importance of preparing students with the necessary skills to find success in society. Our goal is to use technology as a tool to improve teaching, academic learning, and lifelong learning. We are committed to providing access to varied technologies and instructional practices that will allow our teachers to transform classroom practices and students to prepare for their futures. In order to prepare students for the future, opportunities must be available for students to use a variety of technologies to engage with an integrated curriculum that provides opportunities to retrieve and process information, solve complex problems, work alone and collaboratively to communicate locally, nationally, and worldwide while developing higher-order thinking skills. MPSD recognizes the need to promote and support authentic and meaningful uses of technology which will empower our students to succeed in a complex and changing society.

Action Plans SY16-SY19:

Overview: As you review this plan, please keep in mind that focusing on specific technologies or products may be the wrong approach to future-proofing our K-12 technology. We encourage faculty and administrators to take the time to examine their teaching pedagogy and how it can be used to drive technology implementation. While technology is always evolving, it's not only the technology that should drive investment. Thoughtful integration of technology in our schools can help students become responsible, active, independent, lifelong learners in a complex digital society.

Plan Duration: This Technology Plan will be in effect for a period of four years, from July 1, 2015 through June 30, 2019. The plan outlines a framework, belief statements, SMART goals, action plans, standards and funding sources based on the four-year period. The effectiveness of the plan will be monitored and evaluated as stated in each goal.

Funding Sources: All initiatives are dependent on available funding. Initiatives not funded in the designated year will be pushed to the following year.

Personalized Learning Devices: To maintain consistency we have determined the following recommended devices for the grade levels listed below.

- PreK-2 iPads
- Grades 3-12 : Chromebooks

TECHNOLOGY FRAMEWORK				
<p>Student Learning</p> <p>Support students' technology needs as they develop their passion for learning and future ready skills.</p>	<p>Professional Practice</p> <p>Support teaching practices connecting data, content, resources, expertise and learning experiences to better meet the needs of all students.</p>	<p>Culture</p> <p>Enhance and support learning environments that encourage the infusion of technology throughout all facets of schools.</p>	<p>Equity & Access</p> <p>Provide access to families and the community to support student learning.</p>	<p>Technology Infrastructure</p> <p>Provide and maintain reliable infrastructure that supports daily teaching and learning.</p>
MPSD PK-12 Technology Vision				
<p>Provide <i>relevant</i> digital learning tools to support the consumption and creation of content. (construction of meaning)</p> <p>Support higher-level learning, problem solving, collaboration on multi-disciplinary projects, communication of ideas, and critical thinking skills in order to directly support the student's mastery of all content standards via effective integration of technology.</p>	<p>Expand opportunities for educators to have access to technology-based content, resources, and tools.</p> <p>Present multiple and differentiated opportunities for professional development to support technology integration that will foster the skills our students will need to compete globally</p> <p>Utilize technology integration specialists to implement and support curriculum initiatives and provide job-embedded, and relevant professional learning.</p> <p>Support the use of data to inform and improve student learning and achievement.</p>	<p>Embed an understanding of educational technology within the roles and responsibilities of education leaders at all levels.</p> <p>Encourage all staff to identify innovative ways to enhance student learning, communicate, present, collaborate and manage.</p> <p>Maximize the meaningful uses of technology amongst students, staff, parents and community through effective leadership and operations</p>	<p>Enhance teacher/home communication link to engage families through the use of the district and school websites, Aspen SIS, and LMS or other resources</p> <p>Use cloud based applications to establish equal access to learning resources at both home and school.</p> <p>Explore policy and initiatives to address equal access to technology and connectivity for all families</p>	<p>Provide access to provide a dynamic technological environment that connect learners and educators to the vast resources of the Internet and facilitate communication and collaboration</p> <p>Provide computer hardware and software replacement cycles that help us to meet the needs of all learners.</p> <p>Maintain guidelines and safeguard to ensure the infrastructure is used to support learning</p> <p>Provide and maintain reliable wired and wireless infrastructure and bandwidth that facilitates teaching and learning to support anytime anyplace learning</p>
TECHNOLOGY SMART GOALS				
<p>Increase availability of personalized learning devices in all K-12 classrooms.</p> <p>Increase student opportunity to communicate, collaborate, present and organize using a Learning Management System such as Google Classroom/Canvas.</p>	<p>Develop and offer online Professional Development materials and training through Learning Management Systems for all staff.</p> <p>Increase instructional technology staffing to support district teaching and learning initiatives.</p>	<p>Develop and implement a shared vision for how technology can support a student-centered approach to learning and how to secure appropriate resources to sustain technology initiatives.</p> <p>Allocate resources to supporting the placement of technology tools, technology support and professional development throughout the district.</p>	<p>Migrate to a new school and district website platform to facilitate a communication of a broader range of content and more up to date information.</p> <p>Continued integration of Aspen Student Information System to maximize efficiency and communication of all academic and administrative processes.</p> <p>Evaluate current levels of student access to technology resources in their homes and develop possible district initiatives to increase access and promote equity, if necessary.</p>	<p>Increase interoperability between all data systems</p> <p>Develop computer hardware and software replacement cycles that meet the needs of all learners.</p> <p>Implement security measures to ensure our schools are safe and secure.</p> <p>Procure and deploy classroom presentation systems K-8 that model the HS blueprint.</p>

STUDENT LEARNING

Support students' technology needs as they develop their passion for learning and future ready skills.

Funding Sources: Operational Budget, Capital

Goal	SY16	SY17	SY18	SY19	District Improvement Plan Goal
Increase availability of personalized learning devices in all K-12 classrooms.	<p>Pilot: K-8 Develop Best Practices</p> <p>Deploy Chromebooks to all MHS students for use at school and home.</p>	<p>Grade 5 = Add 1 cart/ school = \$45,000</p> <p>FBMS = Add 2 classroom carts \$18,000</p>	<p>Grade 4 = Add 1 cart/ school = \$45,000</p> <p>Grade 2 = Add 1 cart/ school = \$45,000</p> <p>FBMS = Add 2 classroom carts \$18,000</p>	<p>Grade 3 = Add 1 cart/ school = \$45,000</p> <p>Grade 1 = Add 1 cart/ school = \$45,000</p> <p>FBMS = Add 2 classroom carts \$18,000</p> <p>MHS 1:1 Refresh</p>	Improvement of instructional practices to challenge and support all students
Increase student opportunity to communicate, collaborate, present and organize using a Learning Management System such as Google Classroom/Canvas.	<p>Pilot Middle School Canvas/Google Classroom</p> <p>Pilot Elementary Google Classroom in Grade 5</p> <p>Introduce Canvas communication & collaboration tools (Discussion, Chat, and Collaboration & Conferences) to MHS faculty & students.</p>	<p>Expand Canvas access to 6-8 Staff and students and create opportunities for students in this online environment. \$6000.00</p> <p>Expand Google Classroom to Grade 5 districtwide</p>	<p>Continue to expand HS and MS implementation of Canvas \$6000.00</p> <p>Introduce Google Classroom to grade 4</p> <p>Continue to expand Google Classroom in Grade 5</p>	<p>Continue to expand HS and MS implementation of Canvas</p> <p>Budget for Canvas renewal</p> <p>Introduce Google Classroom to Grade 3</p> <p>Continue to expand Google Classroom in Grades 4 & 5</p>	Improvement of instructional practices to challenge and support all students

PROFESSIONAL PRACTICE

Support teaching practices connecting data, content, resources, expertise and learning experiences to better meet the needs of all students.

Funding Sources: Operational Budget

Goal	SY16	SY17	SY18	SY19	District Improvement Plan Goal
Develop and offer online Professional Development materials and training through Learning Management Systems for all staff.	Pilot select Professional Development Courses in Canvas	Increase opportunities for staff to participate in Canvas based professional development and training. Increase PD Funding	Continue to increase opportunities for staff to participate in Canvas based professional development and training. Increase PD Funding	Continue to increase opportunities for staff to participate in Canvas based professional development and training. Increase PD Funding	Improvement of instructional practices to challenge and support all students
Increase instructional technology staffing to support district teaching and learning initiatives.	No Action	No Action	Add additional Technology Integration Specialist K-5	Add additional Technology Integration Specialist K-5	Improvement of instructional practices to challenge and support all students.

CULTURE

Enhance and support learning environments that encourage the infusion of technology throughout all facets of schools.

Funding Sources: Operational Budget, Risk Taking

Goal	SY16	SY17	SY18	SY19	District Improvement Plan Goal
Develop and implement a shared vision for how technology can support a student-centered approach to learning and how to secure appropriate resources to sustain technology initiatives.	Encourage and support faculty & administrators to reexamine pedagogy and decision making to ensure students are future- ready	Encourage and support faculty & administrators to reexamine pedagogy and decision making to ensure students are future- ready.	Encourage and support faculty & administrators to reexamine pedagogy and decision making to ensure students are future- ready.	Encourage and support faculty & administrators to reexamine pedagogy and decision making to ensure students are future- ready	Improvement of instructional practices to challenge and support all students.

EQUITY & ACCESS

Provide access to families and the community to support student learning.

Funding Sources: Operational Budget

Goal	SY16	SY17	SY18	SY19	District Improvement Plan Goal
Migrate to a new school and district website platform to facilitate a communication of a broader range of content and more up to date information.	Website redesign: Migrate from Edline to Schoo IWires: Spring 16'	Launch redesigned district website July 1 Migrate classroom webpages into Canvas public pages and provide training to classroom teachers.	Continue to maintain website as an effective communication tool.	Continue to maintain website as an effective communication tool.	Optimize communication at all levels Create reciprocal opportunities for partnerships between community & school services.
Continued integration of Aspen Student Information System to maximize efficiency and communication of all academic and administrative processes.	Implement Aspen Standards Based Report Cards K-5	Distribute all report cards electronically Explore functionality for updating parent contact information as well as online athletic registration.	Continue to explore ways to maximize efficiency and communication of all academic and administrative processes.	Continue to explore ways to maximize efficiency and communication of all academic and administrative processes.	
Evaluate current levels of student access to technology resources in their homes and develop possible district initiatives to increase access and promote equity, if necessary.	No Action	Develop and implement a student survey of offsite access to technology resources.	Form a committee to explore options with community stakeholders to enhance the scope of offsite access.	Continue to evaluate options for offsite access to technology resources.	

INFRASTRUCTURE

Provide and maintain reliable infrastructure that supports daily teaching and learning

Funding Sources: Capital

Goal	SY16	SY17	SY18	SY19	District Improvement Plan Goal
Increase interoperability between all data systems		Migrate all Staff to Google Mail & Google Apps for Education			Improvement of instructional practices to challenge and support all students.
Procure and deploy classroom presentation systems K-8 that model the HS blueprint.		Grade 8 & FBMS Labs = Installation of 20 presentation systems \$70,000 Grade 7 = Installation of 25 presentation systems \$87,500 Grade 5 = Installation of 18 presentation systems \$72,000	Grade 6 = Installation of 20 presentation systems \$70,000 Grade 4 = Installation of 18 presentation systems \$72,000 Grade 3 = Installation of 18 presentation systems \$72,000	Grade 2 = Installation of 18 presentation systems \$72,000 Grade 1 = Installation of 18 presentation systems \$72,000 Grade K = Installation of 15 presentation systems \$60,000	Improvement of instructional practices to challenge and support all students.
Implement security measures to ensure our schools are safe and secure.		Capital request for security cameras and card access systems. \$250,000	Continue to maintain and expand security infrastructure.	Continue to maintain and expand security infrastructure.	Maximize the potential of students, staff, parents and community through effective leadership and operations.
Computer hardware and software replacement cycles that meet the needs of all learners.	No Action	Capital request of \$100,000 for Computer Replacement	Capital request of \$100,000 for Computer Replacement	Capital request of \$100,000 for Computer Replacement MHS 1:1 Refresh of Devices	Maximize the potential of students, staff, parents and community through effective leadership and operations.

Financial Review

<u>SY17</u>		Anticipated Cost
Grade 5 Chromebook Carts	5 Carts @ \$9,000	\$45,000
FBMS 2 Chromebook Carts	2 Carts @ \$9,000	\$18,000
Grade 8 & FBMS Computer Lab Projection Systems	20 Projectors @ \$3500	\$70,000
Grade 7 Classroom Projection Systems	20 Projectors @ \$3500	\$70,000
Grade 5 Classroom Projection Systems + Electrical	18 Projectors @ \$4000	\$72,000
Classroom Computer Replacement		\$100,000
		\$375,000

<u>SY18</u>		Anticipated Cost
Grade 4 Chromebook Carts	5 Carts @ \$9,000	\$45,000
Grade 2 Chromebook Carts	5 Carts @ \$9,000	\$45,000
FBMS 2 Chromebook Carts	2 Carts @ \$9,000	\$18,000
Grade 6 Classroom Projection Systems	20 Projectors @ \$3500	\$70,000
Grade 4 Classroom Projection Systems + Electrical	18 Projectors @ \$4000	\$72,000
Grade 3 Classroom Projection Systems + Electrical	18 Projectors @ \$4000	\$72,000
Classroom Computer Replacement		\$100,000
		\$422,000

Financial Review

<u>SY19</u>			Anticipated Cost	
Grade 3 Chromebook Carts	5 Carts @ \$9,000		\$45,000	
Grade 1 iPad Carts	5 Carts @ \$9,000		\$45,000	
FBMS 2 Chromebook Carts	2 Carts @ \$9,000		\$18,000	
Grade 2 Classroom Projection Systems + Electrical	18 Projectors @ \$4000		\$72,000	
Grade 1 Classroom Projection Systems + Electrical	18 Projectors @ \$4000		\$72,000	
Grade K Classroom Projection Systems + Electrical	15 Projectors @ \$4000		\$60,000	
Classroom Computer Replacement			\$100,000	
				\$412,000

TOWN OF MARSHFIELD CAPITAL BUDGET NEW PROJECT REQUEST FISCAL YEAR 2018

Department: School | Priority: 1

Project Title and Description: Building Security - SW (less MHS)

Basis of Estimated Costs (attach additional information if available)

Capital	Cost	Comments
Planning and Design		
Labor and Materials	\$ 85,414	
Administration		
Land Acquisition		
Equipment	\$ 114,586	
Other		
Contingency		
Total Capital	\$ 200,000	

Estimated Cost	Capital	O&M
FY2018	\$ 200,000	
FY2019	\$ -	
FY2020	\$ -	
FY2021		
FY2022		

Operating Costs	One Time	Annual
Personnel		
Expense		
Other		
Total O&M		

Project Justification and Objective:

The proposed Fiscal Year 2018 project would upgrade building security at the K-8 levels with the installation of additional exterior security cameras. An internal card access system would be installed at Furnace Brook Middle School to allow the building to remain secure utilizing the current system in operation at Marshfield High School. Please see attached quotations from ECSC, Inc.

The District is also pursuing an estimate on rekeying all exterior doors and replacing and modifying internal door hardware, as necessary. This will be part of the FY2019 proposal.

MARSHFIELD PUBLIC SCHOOLS
SECURITY ENHANCEMENTS PHASE 2
2017





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Web: www.escsinc.com

October 7, 2016

Marshfield Public Schools
76 South River Street
Marshfield, MA 02050

Attn: David Cawthorne – Director of Technology
Phone: (781) 319-1520 Cell: (781) 589-9925 Email: dcawthorne@mpsd.org
Summary Page

Marshfield Public Schools Security Enhancements Phase 2	
Martinson Elementary	\$24,673.30
Daniel Webster Elementary	\$24,673.30
Governor Winslow Elementary	\$24,673.30
Eames Way Elementary	\$24,673.30
South River Elementary	\$24,673.30
Furnace Brook Middle School	\$62,213.40
Central Admin Office	\$5,602.70
Total Budget 2017	\$191,182.60

If you have any questions please feel free to call.

Sincerely,
Greg Colarusso

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Attn: David Cawthorne – Director of Technology
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 Ref: Quote#7404Q / Marshfield Public Schools / Martinson (2017) Phase 2

Qty.	MFG	Model	Description	MSRP	MSRP Ext	FAC 64 Discount	Total
2	Panasonic	WV-SPV781L	4K Panasonic Bullet cam 12MP	\$3,486.00	\$6,972.00	20%	\$5,577.60
6	Avigilon	8.0-H4A-BO1-IR	Avigilon 8.0MP, H4 HD Bullet, 4.3-8mm	\$1,500.00	\$9,000.00	20%	\$7,200.00
6	Avigilon	H4-BO-JBOX1	Avigilon Junction box for the H4A-BO-IR HD Bullet Cameras	\$90.00	\$540.00	20%	\$432.00
6	Video Insight	VI-ENT-LISC	Video Insight Licenses Enterprise	\$194.00	\$1,164.00	20%	\$931.20
2.4	Comtran	Cat5e	Yellow Plenum Network Cable	\$600.00	\$1,440.00	20%	\$1,152.00
			Program				\$886.50
			Setup				\$886.50
			Installation				\$7,092.00
			Conduit				\$85.00
			Warranty				\$0.00
			Shipping				\$135.00
			Testing				\$295.50
			Total				\$24,673.30

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 Ref: Quote#7407Q / Marshfield Public Schools / Daniel Webster (2017) Phase 2

Qty.	MFG	Model	Description	MSRP	MSRP Ext	FAC 64 Discount	Total
2	Panasonic	WV-SPV781L	4K Panasonic Bullet cam 12MP	\$3,486.00	\$6,972.00	20%	\$5,577.60
6	Avigilon	8.0-H4A-BO1-IR	Avigilon 8.0MP, H4 HD Bullet, 4.3-8mm	\$1,500.00	\$9,000.00	20%	\$7,200.00
6	Avigilon	H4-BO-JBOX1	Avigilon Junction box for the H4A-BO-IR HD Bullet Cameras	\$90.00	\$540.00	20%	\$432.00
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 Ref: Quote#7405Q / Marshfield Public Schools / Governor Winslow (2017) Phase 2

Qty.	MFG	Model	Description	MSRP	MSRP Ext	FAC 64 Discount	Total
2	Panasonic	WV-SPV781L	4K Panasonic Bullet cam 12MP	\$3,486.00	\$6,972.00	20%	\$5,577.60
6	Avigilon	8.0-H4A-BO1-IR	Avigilon 8.0MP, H4 HD Bullet, 4.3-8mm	\$1,500.00	\$9,000.00	20%	\$7,200.00
6	Avigilon	H4-BO-JBOX1	Avigilon Junction box for the H4A-BO-IR HD Bullet Cameras	\$90.00	\$540.00	20%	\$432.00
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			Program				\$886.50
			Setup				\$886.50
			Installation				\$7,092.00
			Conduit				\$85.00
			Warranty				\$0.00
			Shipping				\$135.00
			Testing				\$295.50
			Total				\$24,673.30

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 Ref: Quote#7406Q / Marshfield Public Schools / Eames Way (2017) Phase 2

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			Program				\$886.50
			Setup				\$886.50
			Installation				\$7,092.00
			Conduit				\$85.00
			Warranty				\$0.00
			Shipping				\$135.00
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			Total				\$24,673.30

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Marshfield Public Schools
 76 South River Street
 Marshfield, MA 02050

Attn: David Cawthorne – Director of Technology
 Phone: (781) 319-1520 Cell: (781) 589-9925 Email: dcawthorne@mpsd.org
 Ref: Quote#7408Q / Marshfield Public Schools / South River (2017) Phase 2

Qty.	MFG	Model	Description	MSRP	MSRP Ext	FAC 64 Discount	Total
2	Panasonic	WV-SPV781L	4K Panasonic Bullet cam 12MP	\$3,486.00	\$6,972.00	20%	\$5,577.60
6	Avigilon	8.0-H4A-BO1-IR	Avigilon 8.0MP, H4 HD Bullet, 4.3-8mm	\$1,500.00	\$9,000.00	20%	\$7,200.00
6	Avigilon	H4-BO-JBOX1	Avigilon Junction box for the H4A-BO-IR HD Bullet Cameras	\$90.00	\$540.00	20%	\$432.00
6	Video Insight	VI-ENT-LISC	Video Insight Licenses Enterprise	\$194.00	\$1,164.00	20%	\$931.20
2.4	Comtran	Cat5e	Yellow Plenum Network Cable	\$600.00	\$1,440.00	20%	\$1,152.00
			Program				\$886.50
			Setup				\$886.50
			Installation				\$7,092.00
			Conduit				\$85.00
			Warranty				\$0.00
			Shipping				\$135.00
			Testing				\$295.50
			Total				\$24,673.30

If you have any questions please feel free to call.

Sincerely,
 Greg Colarusso

Corporate Office:
 108 Evergreen St.
 Bridgeport, CT. 06606
 (203) 336-9506
 Fax: (203) 336-9975

Boston Office:
 7-A Railroad Ave.
 Bedford, MA. 01730
 (781) 271-0830
 Fax: (781) 271-0833



**CT & MA Certified Woman Owned Business
Contractor License – CT. #106148 – MA. #7015-C
Web: www.escsinc.com**

October 7, 2016

Marshfield Public Schools
76 South River Street
Marshfield, MA 02050

Attn: David Cawthorne – Director of Technology
Phone: (781) 319-1520 Cell: (781) 589-9925 Email: dcawthorne@mpsd.org
Ref: Quote#7409Q / Marshfield Public Schools / Furnace Brooke (2017) Phase 2

Qty.	MFG	Model	Description	MSRP	MSRP Ext	FAC 64 Discount	Total
2	Panasonic	WV-SPV781L	4K Panasonic Bullet cam 12MP	\$3,486.00	\$6,972.00	20%	\$5,577.60
6	Avigilon	8.0-H4A-BO1-IR	Avigilon 8.0MP, H4 HD Bullet, 4.3-8mm	\$1,500.00	\$9,000.00	20%	\$7,200.00
6	Avigilon	H4-BO-JBOX1	Avigilon Junction box for the H4A-BO-IR HD Bullet Cameras	\$90.00	\$540.00	20%	\$432.00
6	Video Insight	VI-ENT-LISC	Video Insight Licenses Enterprise	\$194.00	\$1,164.00	20%	\$931.20
6	Panasonic	WV-SFN311A	Panasonic 720P IP Interior Fixed Camera	\$744.00	\$4,464.00	20%	\$3,571.20
6	Panasonic	WV-Q174B	Recessed Ceiling Mount	\$107.00	\$642.00	20%	\$513.60
8	Von Duprin	EL Kit	Von Duprin EL Conversion Kit 4FT	\$932.00	\$7,456.00	20%	\$5,964.80
4	Von Duprin	EL Power Supply	Von Duprin EL Power Supply	\$732.00	\$2,928.00	20%	\$2,342.40
4	Von Duprin	EL Battery Backup Kit	Von Duprin EL BB Kit	\$100.00	\$400.00	20%	\$320.00
11	HES	Hess 9600	Electric Door Strike Standard	\$480.00	\$5,280.00	20%	\$4,224.00
1	S2	S2-OUT	S2 Output Board	\$606.00	\$606.00	20%	\$484.80
1	Altronix	Lock Power Supply	Lock Power Supply	\$296.00	\$296.00	20%	\$236.80
3.6	Comtran	Cat5e	Yellow Plenum Network Cable	\$600.00	\$2,160.00	20%	\$1,728.00
1.5	Comtran	Composite/Multiconductor	Yellow Plenum Card Access Cable	\$1,560.00	\$2,340.00	20%	\$1,872.00
			Program				\$1,576.00
			Setup				\$1,576.00
			Installation				\$23,147.50
			Conduit				\$85.00
			Warranty				\$0.00
			Shipping				\$135.00

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			Testing				\$295.50
			Total				\$62,213.40

If you have any questions please feel free to call.

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October 7, 2016

Marshfield Public Schools
 76 South River Street
 Marshfield, MA 02050

Attn: David Cawthorne – Director of Technology
 Phone: (781) 319-1520 Cell: (781) 589-9925 Email: dcawthorne@mpsd.org
 Ref: Quote#7410Q / Marshfield Public Schools / Central Admin (2017) Phase 2

Qty.	MFG	Model	Description	MSRP	MSRP Ext	FAC 64 Discount	Total
4	Panasonic	WV-SFN311A	Panasonic 720P IP Interior Fixed Camera	\$744.00	\$2,976.00	20%	\$2,380.80
4	Panasonic	WV-Q174B	Recessed Ceiling Mount	\$107.00	\$428.00	20%	\$342.40
			Program				\$394.00
			Setup				\$394.00
			Installation				\$1,576.00
			Conduit				\$85.00
			Warranty				\$0.00
			Shipping				\$135.00
			Testing				\$295.50
			Total				\$5,602.70

If you have any questions please feel free to call.

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Greg Colarusso

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TOWN OF MARSHFIELD CAPITAL BUDGET NEW PROJECT REQUEST FISCAL YEAR 2018

Department:	School	Priority:	1
Project Title and Description: Martinson HVAC Controls			

Basis of Estimated Costs (attach additional information if available)

Capital:	Cost	Comments
<i>Planning and Design</i>		
<i>Labor and Materials</i>	\$ 100,000	
<i>Administration</i>		
<i>Land Acquisition</i>		
<i>Equipment</i>		
<i>Other</i>		
Contingency		
Total Capital	\$ 100,000	

Estimated Cost:	Capital	O&M
FY2018	\$ 100,000	
FY2019		
FY2020		
FY2021		
FY2022		

Operating Costs:	One Time	Annual
<i>Personnel</i>		
<i>Expense</i>		
<i>Other</i>		
Total O&M		

Project Justification and Objective:

Please see attached quotation from AutomatedLogic to replace existing and failing Honeywell control system at Martinson Elementary.