

## Smart Schools Investment Plan - 2016-17 Version (Original) - 7.6.17

SSIP Overview

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## Institution ID

800000054880

1. Please enter the name of the person to contact regarding this submission.

Jeffrey J. Ahearn

- 1a. Please enter their phone number for follow up questions.

(607)757-2241

- 1b. Please enter their e-mail address for follow up contact.

jjahearn@vestal.k12.ny.us

2. Please indicate below whether this is the first submission, a new or supplemental submission or an amended submission of an approved Smart Schools Investment Plan.

First submission

3. All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.

By checking this box, you certify that the school district has an approved District Instructional Technology Plan survey on file with the New York State Education Department.

☒ District Educational Technology Plan Submitted to SED and Approved

4. Pursuant to the requirements of the Smart Schools Bond Act, the planning process must include consultation with parents, teachers, students, community members, other stakeholders and any nonpublic schools located in the district.

By checking the boxes below, you are certifying that you have engaged with those required stakeholders. Each box must be checked prior to submitting your Smart Schools Investment Plan.

☒ Parents

☒ Teachers

☒ Students

☒ Community members

- 4a. If your district contains non-public schools, have you provided a timely opportunity for consultation with these stakeholders?

☒ Yes

☐ No

☐ N/A

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5. **Certify that the following required steps have taken place by checking the boxes below: Each box must be checked prior to submitting your Smart Schools Investment Plan.**

- ☒ The district developed and the school board approved a preliminary Smart Schools Investment Plan.
- ☒ The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.
- ☒ The school board conducted a hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have occurred as part of a normal Board meeting, but adequate notice of the event must have been provided through local media and the district website for at least two weeks prior to the meeting.
- ☒ The district prepared a final plan for school board approval and such plan has been approved by the school board.
- ☒ The final proposed plan that has been submitted has been posted on the district's website.

- 5a. **Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website, along with any supporting materials. Note that this should be different than your recently submitted Educational Technology Survey. The Final SSIP, as approved by the School Board, should also be posted on the website and remain there during the course of the projects contained therein.**

2017SMARTschools.pdf

- 5b. **Enter the webpage address where the final Smart Schools Investment Plan is posted. The Plan should remain posted for the life of the included projects.**

www.vestal.stier.org/Downloads/2017SMARTschools\_updated7-2017.pdf

6. **Please enter an estimate of the total number of students and staff that will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.**

3,936

7. **An LEA/School District may partner with one or more other LEA/School Districts to form a consortium to pool Smart Schools Bond Act funds for a project that meets all other Smart School Bond Act requirements. Each school district participating in the consortium will need to file an approved Smart Schools Investment Plan for the project and submit a signed Memorandum of Understanding that sets forth the details of the consortium including the roles of each respective district.**

- ☐ The district plans to participate in a consortium to partner with other school district(s) to implement a Smart Schools project.

8. **Please enter the name and 6-digit SED Code for each LEA/School District participating in the Consortium.**

Partner LEA/District	SED BEDS Code
(No Response)	(No Response)

9. **Please upload a signed Memorandum of Understanding with all of the participating Consortium partners.**

(No Response)

10. **Your district's Smart Schools Bond Act Allocation is:**

\$2,093,599

11. **Enter the budget sub-allocations by category that you are submitting for approval at this time. If you are not budgeting SSBA funds for a category, please enter 0 (zero.) If the value entered is \$0, you will not be required to complete that survey question.**

	Sub-Allocations
School Connectivity	231,000
Connectivity Projects for Communities	

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	Sub-Allocations
	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	1,757,000
<b>Totals:</b>	<b>1,988,000</b>

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1. In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that:
  - sufficient infrastructure that meets the Federal Communications Commission's 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or
  - is a planned use of a portion of Smart Schools Bond Act funds, or
  - is under development through another funding source.
 Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:
  1. Specifically codified in a service contract with a provider, and
  2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.

Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

The Vestal Central School District already meets this standard. The District's internet service is provided by the South Central Regional Information Center (SCRIC). The SCRIC provides a 1 Gbps connection to the internet for the District with the capability to burst its internet connection to 10 Gbps. The District has a 10 Gbps Wide Area Network with a 1 Gbps redundant link.

- 1a. If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.

☐ By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

## 2. Connectivity Speed Calculator (Required)

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	3,237	323,700	323.7	1000	1000	Already Met

3. Describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in school buildings.

The District's building already have an extensive data infrastructure throughout all of the buildings. However there is a need for more wireless access so the project will include additional category 6a network cabling in the corridors of the buildings.

4. Describe the linkage between the district's District Instructional Technology Plan and the proposed projects. (There should be a link between your response to this question and your response to Question 1 in Part E. Curriculum and Instruction "What are the district's plans to use digital connectivity and technology to improve teaching and learning?")

A major goal of the Vestal Central School District is purposeful Technology Integration. The District supports multiple approaches to the responsible and dynamic use of technology throughout the instructional program and school community. As technology becomes less about specific devices and more about Internet access and the purposeful integration of applications, the infrastructure also needs to include a solid wireless network. The proposed project will give us a stronger and more flexible wireless network.

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5. If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.

Please describe how you have quantified this demand and how you plan to meet this demand.

The District utilizes a robust Aruba 7210 mobility controller. We currently have 170 Access Points deployed around the District. Our Wireless Network currently supports 2,300 District owned wireless devices. This project will allow us to be more flexible in our deployment and placement of access points. As the District purchases more and more wireless devices.

6. As indicated on Page 5 of the guidance, the Office of Facilities Planning will have to conduct a preliminary review of all capital projects, including connectivity projects.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
03-16-01-06-0-001-014
03-16-01-06-0-003-017
03-16-01-06-0-010-010
03-16-01-06-0-011-006
03-16-01-06-0-012-009
03-16-01-06-0-013-009
03-16-01-06-1-017-009

7. Certain high-tech security and connectivity infrastructure projects may be eligible for an expedited review process as determined by the Office of Facilities Planning.

Was your project deemed eligible for streamlined review?

No

8. Include the name and license number of the architect or engineer of record.

Name	License Number
Steve Thesier	33513

9. If you are submitting an allocation for School Connectivity complete this table.  
Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
School Internal Connections and Components	200,900
Professional Services	15,400
Testing	14,700

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	Sub-Allocation
Other Upfront Costs	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>231,000</b>

10. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be eligible for tax-exempt financing to be reimbursed through the SSBA. Sufficient detail must be provided so that we can verify this is the case. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov).  
**NOTE: Wireless Access Points should be included in this category, not under Classroom Educational Technology, except those that will be loaned/purchased for nonpublic schools.**  
**Add rows under each sub-category for additional items, as needed.**

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Cat 6a network cable	490	410	200,900
Testing	Testing of network cable installaton	490	30	14,700
Professional Services	Architectural/engineering fees	1	15,400	15,400

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## High-Tech Security Features

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1. **Describe how you intend to use Smart Schools Bond Act funds to install high-tech security features in school buildings and on school campuses.**

The Smart Schools Bond Act monies will be used in multiple ways to improve security and communication systems throughout all of the District school buildings. Existing analog cameras will be replaced with IP based digital cameras and associated video management systems. Intrusion detection systems will be provided to monitor activities within the buildings. Public address systems will be enhanced with visual strobes at cafeterias, gyms, music rooms, etc. to aid in the notification process of announcements. Door hardening will be accomplished at the Central Junior/Administration building by replacing exterior doors with new doors frames and hardware and incorporating door access control. Bullet resistive security film on windows will be provided at building entries. Corridor door wire glass will be replaced with safety glazing at Vestal Hills Elementary to improve door hardening. Secure entrance vestibule additions will be built at Clayton Avenue Elementary and Tioga Hills Elementary to improve visitor access at the building entries.

2. **All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.**

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
03-16-01-06-0-001-014
03-16-01-06-0-003-014
03-16-01-06-0-010-010
03-16-01-06-0-011-006
03-16-01-06-0-012-009
03-16-01-06-0-013-009
03-16-01-06-1-017-009

3. **Was your project deemed eligible for streamlined Review?**

☐ Yes  
☒ No

4. **Include the name and license number of the architect or engineer of record.**

Name	License Number
Steve Thesier	33513

5. **If you have made an allocation for High-Tech Security Features, complete this table.**

**Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.**

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	457,000
Electronic Security System	1,005,500
Entry Control System	39,000
Approved Door Hardening Project	92,000

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## High-Tech Security Features

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	Sub-Allocation
Other Costs	163,500
<b>Totals:</b>	<b>1,757,000</b>

6. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov).

Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Electronic Security System	Interior Cameras	120.00	2,500	300,000
Electronic Security System	Exterior Cameras	120.00	3,300	396,000
Electronic Security System	Camera Video Server & Licenses	1.00	57,000	57,000
Electronic Security System	Intrusion Detection - Main Panel	6.00	3,000	18,000
Electronic Security System	PA System Strobes	33.00	1,500	49,500
Electronic Security System	PA System Head End	5.00	4,000	20,000
Electronic Security System	Telecenter U Software	1.00	10,000	10,000
Electronic Security System	Telecenter U Campus Controller	7.00	4,400	30,800
Electronic Security System	Telecenter U IP Console	7.00	2,600	18,200
Electronic Security System	Telecenter U Hardware and Labor	7.00	4,000	28,000
Approved Door Hardening Project	Exterior Door Replacement	16.00	3,500	56,000
Entry Control System	Card Access Device and Hardware	10.00	3,900	39,000
Approved Door Hardening Project	Window Film	1.00	23,000	23,000
Approved Door Hardening Project	Wire Glass Replacement	1.00	13,000	13,000
Capital-Intensive Security Project	Tioga Hills Secure Vestibule - Demolition	1.00	20,000	20,000
Capital-Intensive Security Project	Tiga Hills Secure Vestibule - Foundation	1.00	35,000	35,000
Capital-Intensive Security Project	Tioga Hills Secure Vestibule - Exterior Walls	1.00	30,000	30,000
Capital-Intensive Security Project	Tioga Hills Secure Vestibule - Roof/Canopy	1.00	45,000	45,000
Capital-Intensive Security Project	Tioga Hills Secure Vestibule - Finishes	1.00	20,000	20,000
Capital-Intensive Security	Tioga Hills Secure Vestibule -	1.00	35,000	35,000



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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Project	Doors/Windows			
Capital-Intensive Security Project	Tioga Hills Secure Vestibule - HVAC	1.00	20,000	20,000
Capital-Intensive Security Project	Tioga Hills Secure Vestibule - Electrical	1.00	35,000	35,000
Capital-Intensive Security Project	Clayton Avenue Secure Vestibule - Demolition	1.00	20,000	20,000
Capital-Intensive Security Project	Clayton Avenue Secure Vestibule - Foundation	1.00	35,000	35,000
Capital-Intensive Security Project	Clayton Avenue Secure Vestibule - Exterior Walls	1.00	30,000	30,000
Capital-Intensive Security Project	Clayton Avenue Secure Vestibule - Roof	1.00	32,000	32,000
Capital-Intensive Security Project	Clayton Avenue Secure Vestibule - Finishes	1.00	20,000	20,000
Capital-Intensive Security Project	Clayton Avenue Secure Vestibule - Doors	1.00	25,000	25,000
Capital-Intensive Security Project	Clayton Avenue Secure Vestibule - HVAC	1.00	20,000	20,000
Capital-Intensive Security Project	Clayton Avenue Secure Vestibule - Electrical	1.00	35,000	35,000
Electronic Security System	Intrusion Detection - Arming Keypad	8.00	1,500	12,000
Electronic Security System	Intrusion Detection - Door Contacts Motion Sensors and Alarms	33.00	2,000	66,000
Other Costs	Architectural/Engineering Fees	1.00	163,500	163,500