

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

SSIP Overview

Institution ID

800000038051

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

Joseph Reilly

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

6076543858

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

reilly.j.n@gmail.com

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

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.

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

SSIP Overview

- 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.

Presentation 2.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.avocacsd.org/cms/lib/NY19000452/Centricity/domain/114/publications/smart%20bond%20presentation.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.

495

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:

\$726,321

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	0
Connectivity Projects for Communities	0
Classroom Technology	19,950
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	704,036
Totals:	723,986

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

School Connectivity

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.

(No Response)

- 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	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

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

(No Response)

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?")

(No Response)

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.

(No Response)

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

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

School Connectivity

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
(No Response)

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 Response)

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

Name	License Number
(No Response)	(No Response)

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	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	0

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.
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
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

Community Connectivity (Broadband and Wireless)

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

(No Response)

2. Please describe how the proposed project(s) will promote student achievement and increase student and/or staff access to the Internet in a manner that enhances student learning and/or instruction outside of the school day and/or school building.

(No Response)

3. Community connectivity projects must comply with all the necessary local building codes and regulations (building and related permits are not required prior to plan submission).

☐ I certify that we will comply with all the necessary local building codes and regulations.

4. Please describe the physical location of the proposed investment.

(No Response)

5. Please provide the initial list of partners participating in the Community Connectivity Broadband Project, along with their Federal Tax Identification (Employer Identification) number.

Project Partners	Federal ID #
(No Response)	(No Response)

6. If you are submitting an allocation for Community 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)
Tower Costs	(No Response)
Customer Premises Equipment	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	0

7. 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.

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
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

Classroom Learning Technology

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.

Avoca Central Schools subscribes to internet services through the Western New York Regional Information Center. Their capacity currently exceeds the recommended level with capacity to spare for future demand.

- 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	444	44,400	44.4	200	200	Currently met

3. 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.

During the last two years, Avoca Central has used Federal E-rate funds to expand their current wireless and wired networks to insure that the students have sufficient bandwidth to. All spaces have wireless access points appropriate for the student demand in those spaces and the bandwidth to the cloud far exceeds the recommended capacity.

4. All New York State public school districts are required to complete and submit an 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 educational technology purchases 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 are certifying that the school district has an approved Instructional Technology Plan survey on file with the New York State Education Department.

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1Classroom Learning Technology

5. **Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems. Specifically address the adequacy of each facility's electrical, HVAC and other infrastructure necessary to install and support the operation of the planned technology.**

The district is proposing the purchase of portable classroom audio systems for students with auditory disabilities. These units require no HVAC upgrades and operate from a singly 110 outlet near the teachers desk.

The beauty of these systems is that they require no infrastructure upgrades. They are fully portable and can either follow the student from class to class or be reassigned to another learning space should the students be reassigned.

6. **Describe how the proposed technology purchases will:**
- > enhance differentiated instruction;
 - > expand student learning inside and outside the classroom;
 - > benefit students with disabilities and English language learners; and
 - > contribute to the reduction of other learning gaps that have been identified within the district.

The expectation is that districts will place a priority on addressing the needs of students who struggle to succeed in a rigorous curriculum. Responses in this section should specifically address this concern and align with the district's Instructional Technology Plan (in particular Question 2 of E. Curriculum and Instruction: "Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials and assessments?" and Question 3 of the same section: "Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?"

Avoca Central' School's technology plan addresses the needs of all students. In the case of this purchase, the district is totally focused on the needs of students with disabilities. The district identified a gap in performance between students with an audio disability and students with good hearing in classes with rigorous instructional curriculums . To reduce this gap, the district is proposing the purchase of Redcat classroom audio devices. No longer will students who have difficulty hearing the teacher or audio/video presentation be limited in their opportunities.

The Redcat audio system allows the students in the room to hear the teacher clearly and distinctly. Students with disabilities will not need to "sit in the front of the room." Nor will they be forced to use cumbersome audio devices that single them out. The Redcat audio system operates in any classroom it is required in, and ALL students will benefit without ostracizing students with disabilities.

Finally, students with hearing disabilities will no longer be required to "relearn" content outside of class. These students can focus on expanded learning and prepping for the next days learning after hours. In the past, they spent their outside of class time, reviewing and relearning content that they couldn't hear.

7. **Where appropriate, describe how the proposed technology purchases will enhance ongoing communication with parents and other stakeholders and help the district facilitate technology-based regional partnerships, including distance learning and other efforts.**

In this case, the equipment is totally classroom designated and with the exception of Open House night, the parents will not be impacted, nor will it enhance distance learning efforts.

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

Classroom Learning Technology

8. Describe the district's plan to provide professional development to ensure that administrators, teachers and staff can employ the technology purchased to enhance instruction successfully.

Note: This response should be aligned and expanded upon in accordance with your district's response to Question 1 of F. Professional Development of your Instructional Technology Plan: "Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience and method of delivery within your summary."

- July 13, 2017-Flipping the Classroom
- This course helped the teachers modify the instruction model to take advantage of the student interest in technology, encourage student participation, and move to an inquiry based instruction model. The teachers identified key questions and concepts that were the goals for the students, and developed inquiry questions and materials for the students to use.
- August 1, 2017-Integrating Technology in Social Studies
- Traditionally, Social Studies has depended on lecture style instruction. This training worked with experienced Social Studies educators to integrate technology and participative learning for students. Resources for teachers and students included Youtube and Safari Montage in the Social Studies classroom.
- August 16, 2017-Google Suite Training
- Many schools are converting from Microsoft Office to the Google Suite. This training offered by the regional BOCES center helped Avoca teachers make this conversion. The first portion of this course offered specific use skills on Sheets, Docs, and Slides. The second portion of the course allowed teachers to work with regional peers to develop instructional practices, and expand collaboration techniques.
- January 12, 2018-Triumph Boards Trainin
- The use of interactive boards has been a practice in Avoca for several years. The acquisition of Triumph Interactive Boards offers new and innovative tools. This course trained the teachers to navigate using Triumph's interactive operating system. The class featured web sites that maximized the capacities of the boards, and allowed the teachers to establish instructional goals and develop materials that help the students accomplish those goals.
- January 26, 2018-NYSATE TurnIT Up @Corning Painted Post Middle School
- TurnIT Up Summits was a regional learning opportunity for educators to explore learning beyond their comfort zone. All learning levels participated in Capture sessions for overview, Immersive sessions for a deeper dive, and have some hands-on playtime in our PlayIT POD area. Session topics included Google Apps for Education, Microsoft in the Classroom, Minecraft EDU, Robotics, STEAM Education, Augmented and Virtual Reality, Technology Integration, and Coding.

9. Districts must contact the SUNY/CUNY teacher preparation program that supplies the largest number of the district's new teachers to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology.

☒ By checking this box, you certify that you have contacted the SUNY/CUNY teacher preparation program that supplies the largest number of your new teachers to request advice on these issues.

- 9a. Please enter the name of the SUNY or CUNY Institution that you contacted.

SUNY Geneseo

- 9b. Enter the primary Institution phone number.

585-245-5151

- 9c. Enter the name of the contact person with whom you consulted and/or will be collaborating with on innovative uses of technology and best practices.

Dr Anjoo Sitka

10. A district whose Smart Schools Investment Plan proposes the purchase of technology devices and other hardware must account for nonpublic schools in the district.

Are there nonpublic schools within your school district?

- ☐ Yes
☒ No

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

Classroom Learning Technology

11. Nonpublic Classroom Technology Loan Calculator

The Smart Schools Bond Act provides that any Classroom Learning Technology purchases made using Smart Schools funds shall be lent, upon request, to nonpublic schools in the district. However, no school district shall be required to loan technology in amounts greater than the total obtained and spent on technology pursuant to the Smart Schools Bond Act and the value of such loan may not exceed the total of \$250 multiplied by the nonpublic school enrollment in the base year at the time of enactment.

See:

http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf.

	1. Classroom Technology Sub-allocation	2. Public Enrollment (2014-15)	3. Nonpublic Enrollment (2014-15)	4. Sum of Public and Nonpublic Enrollment	5. Total Per Pupil Sub-allocation	6. Total Nonpublic Loan Amount
Calculated Nonpublic Loan Amount	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

12. To ensure the sustainability of technology purchases made with Smart Schools funds, districts must demonstrate a long-term plan to maintain and replace technology purchases supported by Smart Schools Bond Act funds. This sustainability plan shall demonstrate a district's capacity to support recurring costs of use that are ineligible for Smart Schools Bond Act funding such as device maintenance, technical support, Internet and wireless fees, maintenance of hotspots, staff professional development, building maintenance and the replacement of incidental items. Further, such a sustainability plan shall include a long-term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources.

☒ By checking this box, you certify that the district has a sustainability plan as described above.

13. Districts must ensure that devices purchased with Smart Schools Bond funds will be distributed, prepared for use, maintained and supported appropriately. Districts must maintain detailed device inventories in accordance with generally accepted accounting principles.

☒ By checking this box, you certify that the district has a distribution and inventory management plan and system in place.

14. If you are submitting an allocation for Classroom Learning Technology 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
Interactive Whiteboards	0
Computer Servers	0
Desktop Computers	0
Laptop Computers	0
Tablet Computers	0
Other Costs	19,950
Totals:	19,950

15. 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.

Please specify in the "Item to be Purchased" field which specific expenditures and items are planned to meet the district's nonpublic loan requirement, if applicable.

NOTE: Wireless Access Points that will be loaned/purchased for nonpublic schools should ONLY be included in

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1Classroom Learning Technology

this category, not under School Connectivity, where public school districts would list them.

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
Other Costs	Redcat Classroom Audio devices	14	1,425	19,950

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

Pre-Kindergarten Classrooms

1. Provide information regarding how and where the district is currently serving pre-kindergarten students and justify the need for additional space with enrollment projections over 3 years.

(No Response)

2. Describe the district's plan to construct, enhance or modernize education facilities to accommodate pre-kindergarten programs. Such plans must include:

- Specific descriptions of what the district intends to do to each space;
- An affirmation that pre-kindergarten classrooms will contain a minimum of 900 square feet per classroom;
- The number of classrooms involved;
- The approximate construction costs per classroom; and
- Confirmation that the space is district-owned or has a long-term lease that exceeds the probable useful life of the improvements.

(No Response)

3. Smart Schools Bond Act funds may only be used for capital construction costs. Describe the type and amount of additional funds that will be required to support ineligible ongoing costs (e.g. instruction, supplies) associated with any additional pre-kindergarten classrooms that the district plans to add.

(No Response)

4. 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
(No Response)

5. If you have made an allocation for Pre-Kindergarten Classrooms, 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
Construct Pre-K Classrooms	(No Response)
Enhance/Modernize Educational Facilities	(No Response)
Other Costs	(No Response)
Totals:	0

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

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

Pre-Kindergarten Classrooms

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

Replace Transportable Classrooms

1. Describe the district's plan to construct, enhance or modernize education facilities to provide high-quality instructional space by replacing transportable classrooms.

(No Response)

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
(No Response)

3. For large projects that seek to blend Smart Schools Bond Act dollars with other funds, please note that Smart Schools Bond Act funds can be allocated on a pro rata basis depending on the number of new classrooms built that directly replace transportable classroom units.

If a district seeks to blend Smart Schools Bond Act dollars with other funds describe below what other funds are being used and what portion of the money will be Smart Schools Bond Act funds.

(No Response)

4. If you have made an allocation for Replace Transportable Classrooms, 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
Construct New Instructional Space	(No Response)
Enhance/Modernize Existing Instructional Space	(No Response)
Other Costs	(No Response)
Totals:	0

5. 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.

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
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

High-Tech Security Features

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 community of Avoca Central School believes that every child is more successful in a safe and secure school environment. There are two components of this plan to accomplish that environment for the students of Avoca.

Unfortunately, the village of Avoca is a somewhat rural location that occasionally has power loss at the school. When this occurs, the building security practically ceases to exist. The door access system is dependent on electrical supply. When the power fails, the door locks stop working. This leaves the building vulnerable to "outside visitors." When the power does fail, the telephone system between the classrooms and the main office and between the entire building and the outside world also stops working. The building, an evacuation center for this part of the community is left with a single operating Analog phone on a pots circuit. With several hundred students in the building, a single phone will not suffice. A back up source of power is critical in the event of an emergency.

Due to the rural location of the village of Avoca, the school buildings are also the center of the community serving not only as an education location but also as an evacuation sight for emergency situations. During community emergencies, citizens depend on the school for a safe and warm site to move to. On one recent winter emergency, the building lost power and the community was forced to depend on battery operated lights in only a few rooms. The building was within 6 hours of freezing as the furnace would not operate without electricity. The Avoca Central School District is also proposing the installation of an emergency generator to provide heat and lights when the community is forced to evacuate to this site.

The second component of this plan is to expand the video security component of their safety plan. The district has a limited system currently focused on entrances. The district wishes to expand both internal and external coverage. Using the New York Safe Schools Act, the district is upgrading and adding to the internal cameras to eliminate the areas without coverage and the storage capacity of the total system. This storage increase will allow for extended storage of raw recorded footage and indefinite storage of specific events. The district is proposing to use Smart Schools funds to add coverage of the exterior campus spaces. Using high resolution cameras, the district wants to identify details when issues occur in the parking lots or playing fields.

Finally, the district needs an emergency communication system that reaches all classrooms and public spaces. There district is proposing the installation of digital communication units. These units are mounted on the walls of the classrooms, large group areas and public spaces. These units include a digital display that appears to be a clock, but in the event of an emergency incident can be used to scroll pre-recorded messages into a single space, a group of classrooms or the entire campus. Messages such as "possible intruder in the building, shelter in place," or "Avoca Central School will dismiss early due to inclement weather," can be scrolled in the classrooms. There is also a 5 amp networked speaker that allows audio messages and multi strobe lights of different colors that can also be used to signify an emergency incident.

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
57-02-01-04-0-002-016
57-02-01-04-0-002-BA1

3. Was your project deemed eligible for streamlined Review?

- ☒ Yes
☐ No

3a. Districts with streamlined projects must certify that they have reviewed all installations with their licensed architect or engineer of record, and provide that person's name and license number. The licensed professional must review the products and proposed method of installation prior to implementation and review the work during and after completion in order to affirm that the work was code-compliant, if requested.

☒ By checking this box, you certify that the district has reviewed all installations with a licensed architect or engineer of record.

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

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

High-Tech Security Features

Name	License Number
Brian Trott	25971

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)	286,256
Electronic Security System	328,334
Entry Control System	0
Approved Door Hardening Project	0
Other Costs	89,446
Totals:	704,036

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.

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
Capital-Intensive Security Project	250-300Kw natural gas buidlng generator	1.00	175,000	175,000
Capital-Intensive Security Project	NEMA 3R ATS	1.00	15,000	15,000
Capital-Intensive Security Project	Concrete pad	1.00	7,500	7,500
Capital-Intensive Security Project	Unit Safety Fence	1.00	6,256	6,256
Capital-Intensive Security Project	Bollards	1.00	4,500	4,500
Capital-Intensive Security Project	Natural Gas service line extension	1.00	12,000	12,000
Capital-Intensive Security Project	Electrical Feeders, raceways Grounding, etc.	1.00	60,000	60,000
Capital-Intensive Security Project	Generator System controls	1.00	6,000	6,000
Other Costs	System Incidentals and Contingencies	1.00	57,251	57,251
Electronic Security System	Day Automation: Interior IP Camera Termination Kit	112.00	29	3,248

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

High-Tech Security Features

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	Advanced Network Devices: IP Clock with Flashers (Small), 2-way Audio, PoE/SIP, 18in long overall, SS construction, Includes Enclosure	21.00	1,021	21,441
Electronic Security System	Advanced Network Devices: IP Clock with Flashers (Large), 2-way Audio, PoE/SIP, 22in long overall, SS construction, Includes Enclosure	4.00	1,248	4,992
Electronic Security System	Avigilon: Single port Gigabit 802.3at PoE Plus injector, Class 4 - NA power cord	20.00	67	1,340
Electronic Security System	Advanced Network Devices: IP Extra Large Signboard with Flashers, 2-way Audio, PoE/SIP, 51.92in long overall, SS construction, Includes Enclosure	3.00	1,816	5,448
Electronic Security System	Advanced Network Devices: IP Speaker with Display and Flashers (Surface Mount), 2-way Audio, PoE/SIP, Includes Enclosure	66.00	999	65,934
Electronic Security System	Advanced Network Devices: Double-Sided Clock with Flashers, 2-way Audio, PoE/SIP, SS construction, Includes Wall Bracket	16.00	1,646	26,336
Electronic Security System	Advanced Network Devices: IP Speaker Audio Only (Surface Mount), 2-way Audio, PoE/SIP, Includes Enclosure	2.00	522	1,044
Electronic Security System	American Wire Guards: 18x14.75x6in (LxHxD) Wire Guard, 3 Gauge	2.00	79	158
Electronic Security System	American Wire Guards: 52x14x6in (LxHxD) Wire Guard, 3 Gauge, Oversized Shipping Charge	2.00	143	286
Electronic Security System	Advanced Network Devices: Zone Controller, IP Endpoint with Analog Audio Out, Local Mic Input, GPIO Trigger Capabilities, PoE/SIP	3.00	624	1,872
Electronic Security System	Avigilon: 30MP (7k) Box, H.264 HD Pro w/LC Tech	1.00	8,950	8,950
Electronic Security System	Avigilon: Large Format Enclosure for HD IP Pro Cameras with 12VDC/24VAC Heater, Wall Bracket and Sunshield, Max combined camera and lens length is 12.8in (32.5 cm)	1.00	371	371
Electronic Security System	Avigilon: Optional PoE+ power	1.00	210	210

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

High-Tech Security Features

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	module, Powers full camera enclosure features & camera with a single Ethernet connection			
Electronic Security System	Day Automation: Exterior IP Camera Termination Kit	22.00	102	2,244
Electronic Security System	Avigilon: Reinforcing wall mount adapter for ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG & ES-HD-CWS-LG	1.00	36	36
Electronic Security System	Avigilon: 5MP Int/Ext Bullet w/IR, 9-22mm f/1.6, w/LC Tech, D/N, and Analytics	3.00	1,070	3,210
Electronic Security System	Avigilon: Junction box for the H4A-BO-IR HD Bullet Cameras	18.00	81	1,458
Electronic Security System	Avigilon: 5MP Int/Ext Pendant Dome w/IR, 4.3-8mm f/1.8, w/LC Tech, D/N, and Analytics	1.00	980	980
Electronic Security System	Avigilon: Wall mount bracket for use with H4A-DP pendant dome cameras	3.00	54	162
Electronic Security System	Avigilon: 8MP (4k) Int/Ext Bullet w/IR, 4.3-8mm f/1.8, w/D/N and Analytics	15.00	1,343	20,145
Electronic Security System	Avigilon: Canon, 50mm, f/1.4, Auto-Iris	1.00	746	746
Electronic Security System	Avigilon: Medium pole mount for ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG & ES-HD-CWS-LG, Additional mounting point if used with ES-HD-MNT-PLATE	1.00	170	170
Electronic Security System	Avigilon: 8MP (4k) Int/Ext Pendant Dome w/IR, 4.3-8mm f/1.8, w/D/N and Analytics	2.00	1,289	2,578
Electronic Security System	Comnet: Industrially Hardened Point-to-Point Wireless Ethernet Kit.	2.00	1,169	2,338
Electronic Security System	Day Automation: CP for Pole Mount App, 20x16x11in N4 Heated Enc, 120Vac w/4 Receptacles	2.00	1,184	2,368
Electronic Security System	Comnet: 5-port Ethernet Self-Managed Hardened Switch w/PoE, 10/100TX	2.00	1,511	3,022
Electronic Security System	Avigilon: Pole Mount Bracket	7.00	81	567
Electronic Security System	Avigilon: Corner Mount Bracket	9.00	81	729
Electronic Security System	Avigilon: Pendant Wall Mount for Dome Cameras - H4 SL, H4 Fisheye, H4 PTZ and H3-xMH-DP1-B	2.00	63	126

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1High-Tech Security Features

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Other Costs	Professional Services for Engineering/Programming/Proj Management/Checkout	1.00	32,195	32,195
Electronic Security System	Subcontractor for Electronic Security Installation	1.00	145,825	145,825

Smart Schools Investment Plan - 2016-17 Version (Original) - Application 1

PPU Report
