

Smart Schools Investment Plan - 2016-17 Version (Original) - SSBA Phase I

SSIP Overview

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

Stacy OConnor

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

631-434-2311

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

soconnor@bufsd.org

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.

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- 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.

Preliminary Plan.pdf

Preliminary Plan.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.

http://www.bufsd.org/Index_docs/Smart_Schools_Bond_Act_Preliminary_Plan.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.

21,000

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:

\$21,194,780

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	4,185,946
Connectivity Projects for Communities	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	4,537,383
Totals:	8,723,329

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School Connectivity

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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 Brentwood Union Free School District currently meets the minimum connectivity speed as outlined by the FCC. For our student population of 20,000. Currently we have a 2GB, load balanced, fault tolerant dedicated internet connection.

- 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	20,000	2,000,000	2000	2000	2000	Currently 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 Brentwood Union Free School district will use the SSBA funds to implement a district wide upgrade for high-speed broadband and wireless connectivity. We will be overhauling our district-wide network with the latest generation of network switches all running on a 40GB backbone. We will take advantage of techniques that virtualize network hardware to allow us better control of trusted and non-trusted networks to ensure confidentiality of all student and parent information. Additionally, we will be installing a comprehensive wireless network upgrade in all of our buildings. This will replace all existing access points with the newest generation of AP's that support 1.4GB throughput as well as increased number of simultaneous connections utilizing upgraded security and support of all existing 802.11 standards.

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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?")

- As outlined in the District's annual technology plan in order to supply all the content to all instructional facilities, we must modernize all components of our network transport method as outlined below:
- Internet connectivity
- Completed July 1, 2016
- Network capacity
- Pending SSBA approval by the state
- Wireless
- Pending SSBA approval by the state
- Once these component transport methods are modernized, all classroom instruction can be supported in terms of the rich content that is crucial to increase student learning and achievement in the 21st century. This initial phase of our overall SSBA plan ensures the capacity to support the interactive boards in classrooms as well as mobile devices and any type of device that is reliant upon a robust, high capacity transmission network to deliver engaging and stimulating content to our students and staff.

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.

- We have done a full wireless survey of our educational facilities through a technology vendor. As part of this, we have identified issues with coverage in areas currently underserved as well as areas where throughput has not been ideal. As a result we have developed a plan to put the latest access points that can support the following
- Up to 1.4GB network connection
- 200 simultaneous connections
- support for all 802.11 standards
- increased radios per access point with higher quality
- the high-speed wireless access points will be tied back to internal wiring closets and connect to new switches. The switches are 10 times faster than our current switches and the backbone of the wiring closets will support up to 40GB with is 40 times faster than our current 1GB backbone.
- All our educational campuses are connected via fiber optics back to our existing Network Operations Center (NOC). Once in the NOC, we have 2GB load balanced, fault tolerant external internet connections.

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
580512037999BA1

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?

Yes

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- 7a. Districts that choose the Streamlined Review Process will be required to 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.

☒ I certify that I have reviewed all installations with a licensed architect or engineer of record.

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

Name	License Number
William Wisbauer	16549

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	2,260,430
Outside Plant Costs	(No Response)
School Internal Connections and Components	1,925,516
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	4,185,946

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
Network/Access Costs	VSP 8400 Chassis Included 1 800 W AC Power Supply	21	11,869	249,249
Network/Access Costs	100 VSP 8000 (NA Power Cord) - 240VAC 800W AC Power Supply, for use with	21	540	11,340
Connections/Components	8418XSQ Ethernet SFP+ & 2 port 40G	23	10,173	233,979

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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
	QSFP+ Switch Module - 16 port 1/10G			
Connections/Components	8408QQ ETHERNET SWITCH MODULE - 8 PORT 40G QSFP+. PLUGGABLE TRANSCEIVERS SOLD SEPARATELY	3	10,173	30,519
Connections/Components	AVAYA RJ CABLE Note: 1.8m cable	10	13	130
Connections/Components	40GBASE CONNECTOR, 1270 - 1330 NM, LC) - LR4 QSFP+ TRANSCEIVER (MTP	42	5,744	241,248
Connections/Components	1-port 10GBASE-LR Small Form Factor Pluggable Plus (SFP+) 10 Gigabit	4	1,997	7,988
Connections/Components	1-port 10GBASE-ER Small Form Factor Pluggable Plus (SFP+)10 GB Ethernet Transcv, connector :LC	8	5,331	42,648
Connections/Components	1-port 10GBASE-LRM Small Form Factor Pluggable Plus(SFP+) 10 Gigabit Ethernet Transceiver	152	1,864	283,382
Connections/Components	SFP+ Direct Attach Cable. 3m	94	230	21,620
Connections/Components	SFP+ Direct Attach Cable. 5m	20	297	5,940
Connections/Components	SFP+ Direct Attach Cable. 10m	8	330	2,640
Connections/Components	40GE QSFP+ DAC Cable, 5M, passive	2	365	730
Network/Access Costs	ERS4950GTS-PWR+50-port Ethernet Switch	50	4,221	211,050
Network/Access Costs	ERS 4950GTS 50 48 x 1000BASE-T & 2 x 10GBASE-SFP+ ports. - port Ethernet Switch, supporting	202	3,773	762,146
Network/Access Costs	ERS 4926GTS-PWR+ 26-port Ethernet Switch,	4	2,826	11,304
Connections/Components	Virtual Services. Services Platform Inclusive Professional Services: Note: This is the installation, configuration and testing of the VSP's within the project	20	10,613	212,260
Connections/Components	Ethernet Routing Switch All Inclusive Professional Services (1st at stack) Note: the services mentioned here are providing the physical installation, engineering and testing for all new network hardware across the district. The quantity represents the first switch	93	1,810	168,330

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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
	in all our wiring closets			
Connections/Components	Ethernet (additional at stack) Routing Switch Basic Professional Services Note: the services mentioned here are providing the physical installation, engineering and testing for all new network hardware across the district. The quantity represents each additional switch in each of the closets	154	962	148,148
Connections/Components	Custom Staging & Logical Configuration Package Note: the services mentioned here are providing the physical installation, engineering and testing for all new network hardware across the district. The quantity of 18 represents each of our instructional locations	18	5,328	95,904
Network/Access Costs	WLAN 9144 INDOOR ACCESS POINT, WAVE 2, DUAL RADIO 4X4 MU-MIMO, OMNI-DIRECTIONAL ANTENNA 802.11ac	1,137	893	1,015,341
Connections/Components	Implementation Services Wireless LAN Application Gateway Note: The quantity and price are correct. We are seeing this more and more on the state contract that the price per unit is \$1 or less	430,050	1	430,050

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Community Connectivity (Broadband and Wireless)

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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.

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

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Classroom Learning Technology

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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.

(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. 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)

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.

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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.

(No Response)

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?"

(No Response)

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.

(No Response)

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."

(No Response)

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.

(No Response)

- 9b. Enter the primary Institution phone number.

(No Response)

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- 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.

(No Response)

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

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/mgtsserv/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	(No Response)
Computer Servers	(No Response)
Desktop Computers	(No Response)

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	Sub-Allocation
Laptop Computers	(No Response)
Tablet Computers	(No Response)
Other Costs	(No Response)
Totals:	0

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

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Pre-Kindergarten Classrooms

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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.

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

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Replace Transportable Classrooms

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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)

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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 Brentwood Union Free School District intends to use SSBA to update our district-wide security systems. All of security features will be tied together in one platform that encompasses cameras, swipe entries and intrusion detection. Through efficient use of these funds, we plan to upgrade our existing systems as follows

- Replace all of our current cameras with newer, higher resolution digital IP cameras. The district until now has been using local funds to start this initiative. The inclusion of the SSBA funds will relieve the local tax burden and allow us to complete the project. The new camera system will replace an older antiquated DVR based system and allow for network based access and storage of all video. It is fully integrated into our Windows domain and will reduce the redundancy of multiple databases to control user accounts thus allowing for a more efficient control of access to security objects.
- Update all existing door access controls to ensure reliable swipe entry into our facilities.
- This process will start with all network wiring closets since all instruction must rely on securing network access to assure continued up time for the classrooms
- The next phase will be to update all building swipe access on existing doors. This project will be tied into the replacement of existing cameras as outlined above in such a way to tie all door swipes to cameras so the District can evaluate all entries into facilities.
- Full intrusion detection in all our educational facilities and in the centralized NOC location. This will strive to control access to locations for authorized personnel only.
- Replace all our old out-dated Public Address systems so that we have modern communication to all our classrooms in our buildings. This will entail the following
 - Replace all head-end equipment with IP based solutions to allow flexibility and network access for a majority of the functions
 - Place speakers in all locations for effective communication. This will include
 - Classrooms
 - Hallways
 - Exterior
 - The PA system is designed to be fully integrated into our security system. Through the use of SIP programming, the district will be able to use the PA system to enter emergency states and communicate that DIRECTLY to our Genetec security software. This will allow us a coordinated approach to securing our buildings. As an example, a lockdown process can be initiated from the main phone for the PA system in any building and that will feed into our security software and disable all magnetic card readers to secure the doors. As a result, the security software can then perform a series of pre-programmed responses in response to the threat level indicated. This can include things such as causing all cameras in the associated area to switch to constant record mode and initiate security calls to the authorities. In short, this type of PA system becomes a fully integrated and functional extension of the entire security solution that is intended to better serve the students in our district.

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
580512037999BA1

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.

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

Name	License Number
William Wisbauer	16549

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)	(No Response)
Electronic Security System	4,211,871
Entry Control System	325,512
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
Totals:	4,537,383

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
Electronic Security System	Axis P3364-V Surveillance Network Camera- Color	475	657	312,075
Electronic Security System	Axis Q3617-VE Network External Camera	185	1,456	269,360
Electronic Security System	Security Center Camera Connection. Note: The Security Center Camera Connection is testing of each cameras connectivity, throughput, confirm proper functioning and certifying.	703	250	175,750
Electronic Security System	Level III Physical Security Design, Development, Integration and Support Service Note: The Level III Security, Design, Development, Integration and Support Service is the installation, configuration, converging of all systems to a single platform, and testing.	48	10,000	480,000
Electronic Security System	Indoor Camera Installation (per Camera) Note: This is the actual	475	42	19,950

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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
	installation and hanging/mounting of the cameras			
Electronic Security System	Outdoor Camera Installation (per Camera) Note: This is the actual installation and hanging/mounting of the cameras. External camera installation is more involved due to outdoor building conditions	210	140	29,400
Electronic Security System	Top performance HDTV 1080p compliant, outdoor-ready, IP66, IK09 and NEMA 4x-rated	25	3,383	84,575
Electronic Security System	T91B61 Wall Mount, AL WH, for 55-Series And Q60-Series PTZ Dome Cameras	25	93	2,325
Electronic Security System	Security Systems Installer (Hourly Rate) Note: similar to the Network and Computer Administrator these entry level resources will assist in the physical installations of all associated hardware	7218	76	548,568
Entry Control System	RDR, R40, ICLASS, SE E, LF OFF, HF STD/SIO/SEOS	45	198	8,910
Entry Control System	VertX EVO V2000 Reader Interface/Network Controller	30	999	29,970
Entry Control System	Bosch G-Series Panel	18	382	6,876
Entry Control System	ATM Style Keypad. This is a Keypad to replace failing and antiquated intrusion panels (aka Building Alarm Panels). These panels will integrate directly to the Genetec Solution in order to manage all district-wide security system from one interface.	18	160	2,880
Entry Control System	Bosch Single Zone Input Module	1080	8	8,640
Entry Control System	8 Zone Expansion Module	180	64	11,520
Entry Control System	Addressable Expansion Module Bosch	18	44	792
Entry Control System	Conduit Box Surface Mount (4.6X8.25X1.1)	18	7	126
Entry Control System	Bosch Material Code F.01U.265.967	36	150	5,400
Entry Control System	Level II Physical Security System Design, Development, Integration and Support Service. Note: Level II	30	7,500	225,000

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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
	Physical Security System Design is the physical installation of all associated hardware.			
Electronic Security System	Camera Focus Note: This is installation services to focus each cameras being deployed. Initial camera focusing is done physically to perfect the image and	685	28	19,180
Electronic Security System	Terminations	753	21	15,813
Electronic Security System	Network & Computer Systems Administrator (Hourly Rate) Note: Network & Computer Systems Administrator are also resources whom will assist in the physical installations of all associated hardware.	60	190	11,400
Entry Control System	Axis A8105-E Video Intercom	18	751	13,518
Entry Control System	1 Standard Connection to Intercom Station	18	160	2,880
Entry Control System	1 Bosch G series intrusion panel connection	18	500	9,000
Electronic Security System	EqualLogic PS6610E, High Capacity 7.2K NL SAS 3.5	1	5,910	5,910
Electronic Security System	Dual Controllers, 10GB, High Availability with Failover	1	7,965	7,965
Electronic Security System	42 X 4TB 7.2K RPM NLSAS 12Gbps 512n 3.5in Hot-plug Hard Drive. Note: These drives are self-encrypting and used in enterprise level SAN's as opposed to just server drives. Because higher capacity drives are available now, the price per drive is now down to \$615	1	25,830	25,830
Electronic Security System	Static Rails for 4-Post Racks	1	108	108
Electronic Security System	Redundant Power Supplies, 2800W, AC	1	1,022	1,022
Electronic Security System	C19 to C20, PDU Style, 16 AMP, Power Cord	2	15	30
Electronic Security System	Axis Camera Corner Bracket	15	74	1,110
Electronic Security System	Outdoor Speaker	19	82	1,558
Electronic Security System	Weather Proof Sleeve	19	14	266

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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
Electronic Security System	Back Box	756	12	9,072
Electronic Security System	Tile Bridge	756	6	4,536
Electronic Security System	Hallway Speaker	756	25	18,900
Electronic Security System	Classroom Speakers	1380	41	56,580
Electronic Security System	50W 25V Amplifier	169	262	44,278
Electronic Security System	Rack	19	600	11,400
Electronic Security System	Controller	19	3,394	64,486
Electronic Security System	Classroom Module	1380	347	478,860
Electronic Security System	Zone Page Module	169	462	78,078
Electronic Security System	Aux i/o Module	44	462	20,328
Electronic Security System	IP Admin Consoles	38	1,180	44,840
Electronic Security System	rack mount for zone page and amps (3 each)	167	54	9,018
Electronic Security System	Check-in Switch	1380	33	45,540
Electronic Security System	Installation Note: This instalation covers all installation, configuring and set-up for all aspects of the integrated PA system	1380	952	1,313,760