

Smart Schools Investment Plan - Revised - Wiring Infrastructure plan

SSIP Overview

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Institution ID

80000034031

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

Matthew M Perry

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

5858207290

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

mperry@alexandercsd.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.

Supplemental 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.**

- Parents
- Teachers
- Students
- Community members

5. Did your district contain nonpublic schools in 2014-15?

- Yes
- Yes, but they have all since closed, moved out of district or are declining use of SSBA funds
- No

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6. Certify that the following required steps have taken place by checking the boxes below:

- 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.

6a. 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.

2023AlexanderCentralSchoolSmartBondProposal1.pdf
Explanation of SSIP 3.pptx

6b. 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.

https://www.alexandercsd.org/21374_3

7. 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.

900

8. 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.

9. 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)

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

(No Response)

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

\$961,925

12. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement

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	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	847	0	847.00	0.00

13. This table compares each category budget total, as entered in that category's page, to the total expenditures listed in the category's expenditure table. Any discrepancies between the two **must be resolved before submission.**

	Sub-Allocations	Expenditure Totals	Difference
School Connectivity	37,095.51	37,095.51	-0.00
Connectivity Projects for Communities	0.00	0.00	0.00
Classroom Technology	0.00	0.00	0.00
Pre-Kindergarten Classrooms	0.00	0.00	0.00
Replace Transportable Classrooms	0.00	0.00	0.00
High-Tech Security Features	160,869.23	160,869.23	0.00
Nonpublic Loan	0.00	0.00	0.00
Totals:	197,965	197,965	-0

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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 District currently has sufficient infrastructure that meets the Federal Communications Commissions 100 Mbps per 1,000 students standard. The district currently has a broadband speed of 1000 Mbps or 1 Gbps. The district plan to upgrade our aging Multi-mode Fiber optic connections to its edge closets to single-mode fiber protects our current speeds by offering redundancy in the additional 12 pairs of fiber connections which is an upgrade from the current 3 pairs. Additionally, these additional pairs of fiber optic allow the district to segregate the data from Security Cameras or IP phones away from the direct computer connections or the Wireless AP connections throughout the buildings of the district.

The new single-mode fiber optic lines will also increase the bandwidth between the server room and edge closets throughout the buildings of the district from 1 Gbps to 10 Gbps. This future proofs the districts for 10-15 years for its Computer Based Testing, Security Equipment, Wireless Internet, IP Phone, and HVAC needs.

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). If the district currently meets the required speed, enter "Currently Met" in the last box: Expected Date When Required Speed Will be Met.

	Number of Students	Required Speed in Mbps	Current Speed in Mbps	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	847	84.70	1000	(No Response)	Currently Met

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

The district's High-Speed Broadband runs from the main Server Closet to each Edge closet in the district. Those edge closets are connected via the old Multi-Mode Fiber Optic connections that were installed in 2001 and are currently 23 years old. Those edge closet connections are capped at 1 Gbps speeds as the demands on the network grow from year to year for Wireless APs, IP phone connections, Security Cameras, computer data connections, and more. The upgrade to single-mode fiber optic lines will replace the aging system, increase the bandwidth to 10 Gbps, and add extra pairs of connection from 3 in some cases to 12. These extra pairs of connections will allow the district to segregate data, and provide redundancy that the district currently does not have.

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4. **Describe the linkage between the district's District Instructional Technology Plan and how the proposed projects will improve teaching and learning. (There should be a link between your response to this question and your responses to Question 1 in Section IV - NYSED Initiatives Alignment: "Explain how the district use of instructional technology will serve as a part of a comprehensive and sustained effort to support rigorous academic standards attainment and performance improvement for students.")**

Your answer should also align with your answers to the questions in Section II - Strategic Technology Planning and the associated Action Steps in Section III - Action Plan.)

The first part of this Smart Schools Implementation plan will focus on the first Smart Schools Bond Act goals which states; Install high-speed broadband or wireless internet connectivity for schools and communities;. This is also in line with Goal 1 of the district's 2022-2025 3-year Technology Plan which can be found on the District website. The link is also provided by [clicking here](#). You can find Goal 1 on page 6 of the 3-year technology plan. Goal 1 States:

Goal 1: Internal Fiber Optic Replacement in Middle/High school and Elementary Building between edge closets.

The Alexander Central School District has relied on a mix of Single-Mode Fiber Optic (OM4) cables between the Middle/High School Buildings and the Elementary Building, and pairs of Multimode fiber optic cables (OM1) internally in each building that connect the Server closet and the edge switch closets in the school. The entire Fiber Optic network was installed during a building project at the district in 2001. In our first Smart Schools Investment Plan, the district cleaned and added modern ends to the Single-Mode Fiber Optic that runs outside of the buildings to connect the Middle/High School and the Elementary School. This single-mode Fiber Optic connection allows for a 10 GB connection between the schools and is sufficient for the near future.

The Technology Committee and the IT Department plan to upgrade the district's internal fiber optic connections between its edge closets to single-mode fiber optic pairs. The district would choose to run Single-Mode fiber to each edge wire closet to not just act as a redundancy but to also provide room for expansion in the future. The cost of single-mode fiber optics has gone down since our original fiber optic install and more importantly, the cost difference between single-mode and multimode has narrowed. The installation of single-mode would allow the district to realize 10 GB speeds internally between its edge closets and main Server closet throughout the district and all its buildings.

Action Plan steps for Goal 1:

1. Planning the Upgrade from multimode to single mode Fiber Optic runs to all edge closets in the district. The District will meet with WFL BOCES Facility services and the Corning Optical Communications group to develop the scope of the project to meet its goal of replacing the old Multimode Fiber Optic lines.
2. Applying for the District's 3rd Smart Schools Investment Plan to cover the cost of this project. The district will follow the steps it has taken on its two previous Smart Schools Investment plans to apply for infrastructure funding with its available Smart Schools funds.
3. Purchasing Single Mode Fiber Optics, Contracts with Wayne Finger Lakes BOCES Teams, and
4. Installation and testing of Single-mode Fiber Optic infrastructure upgrade

The district's 23-year-old Multimode fiber optic cables (OM1) are old enough that we have lost connectivity of pairs that are currently running between the building's main server and switch closets to their edge closets. This removes the amount of redundancy the district has. With fewer pairs of available Fiber Optic cables the district can not separate its traffic between its instructional network and 3rd party networks like the phone line that comes in from the street and needs to reach the phone server in the main server closet of the Middle/High School. This Fiber Upgrade would give us the benefit of 12 pairs of Single-Mode Fiber Optic (OM4) cables (24 strands) that

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would give us the extra pairs needed for segregating traffic as well as providing redundancy in case of pair connection failure.

Specifications: Fiber Optic Backbone Upgrade

The distinct will use Wayne - Finger Lakes BOCES Facility Services to purchase, install, and terminate 4 24-strand Corning OS2 Single Mode, Tight Buffered, Plenum, non-metallic armored strands of Fiber optic cabling to run from the main Server Closet in the Middle/High school to its three edge closets and to run from the main Switch Closet in the Elementary School to its single edge closet. This will go as follows:

Middle - High School

- 1. From Server Closet to Edge switch closet B
- 2. From Server Closet to Edge switch closet C
- 3. From Server Closet to Edge switch closet D

Elementary School

- 1. From Main Switch Closet A to Edge Switch Closet B

WFLBOCES Facility Services will terminate the connection ends of the pairs of Fiber Optic lines in a connection housing in all the locations listed above. All terminations will be tested and certified. Additionally, all penetrations, conduit chases, cable hangers, and ties are included in the proposal.

- 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 accomplished this in our First Smart Schools Implementation Plan in 2016, and the Fiber Optic upgrade will ensure that the connections between the edge closets and therefore the APs connected to said Edge closets have a faster 10 Gb connection over the 1Gb connect along with more redundancy and network segregation

- 6. **Smart Schools plans with any expenditures in the School Connectivity category require a project number from the Office of Facilities Planning. Districts must submit an SSBA LOI and receive project numbers prior to submitting the SSIP. As indicated on the LOI, some projects may be eligible for a streamlined review and will not require a building permit.**

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

Project Number
18-02-02-04-7-999-002

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

Was your project deemed eligible for streamlined review?

No

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

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Name	License Number
Gian-Paul Piane	25315

9. Public Expenditures – Loanable (Counts toward the nonpublic loan calculation)

Select the allowable expenditure type. Repeat to add another item under each type.	PUBLIC Items to be Purchased	Quantity	Cost Per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	0.00	0

10. Public Expenditures – Non-Loanable (Does not count toward nonpublic loan calculation)

Select the allowable expenditure type. Repeat to add another item under each type.	PUBLIC Items to be purchased	Quantity	Cost per Item	Total Cost
Professional Services	WFL BOCES Facilities Installation Labor	1	20,429.00	20,429.00
Connections/Components	Part #370-COR8.3-TBAD-24 CORNING-C 024E88-33131-D3 24F 8.3 OS2 TB PLEN ARMR DIEL 0.65/0.65/0.5 MIC DX ARMORED PLASTIC ARMOR TBII SINGLE-MODE 24 STRAND FIBER PRICED PER FOOT	2,500	3.05	7,625.00
Connections/Components	2-Inch EMT Conduit	2	47.30	94.60
Connections/Components	Flein Foam Wire Lubrication	2	22.32	44.64
Connections/Components	Part #10084179CORNING-C FL2-LCU-900-SM-25 FUSELITE 2 SPLICE-ON CONNECTORLC UPC, 900 UM, OS2, PK OF 25 FL2-LCU-900-SM-25	8	424.34	3,394.72
Connections/Components	Part #180626 CORNING-C CCH-01U 12/48-F RACK-MT ENCLOSURE 19	5	238.71	1,193.55
Connections/Components	Part #242436 CORNING-C CCH-CP12-A9 12FIBER PANEL LC DUPLEX LOADED SM OS2, 6 ADAPTERS PER PANEL BLUE ADAPTER	16	102.93	1,646.88
Connections/Components	Part #348035 CORNING-C FCC-CLEANER-FIBER BOTTLE OF FIBER CLEANING FLUID3 OZ CAN FCC-CLEANER-FIBER	4	24.20	96.80
Connections/Components	Part #391036 CORNING-C CLEANER-PORT-LC SINGLE-FIBER	10	100.63	1,006.30

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Select the allowable expenditure type. Repeat to add another item under each type.	PUBLIC Items to be purchased	Quantity	Cost per Item	Total Cost
	PORT CLEANER FOR LC, KEYED LC & MU CONNec, BOTHUPC & APC #9393			
Connections/Components	Part #391035 CORNING-C CLEANER-PORT-2.5 SINGLE FIBER PORT CLEANER FOR 2.5MM FC, ST COMPATIBLE, SC PC UPC APC #9392	4	100.63	402.52
Connections/Components	Part #284542 B-LINE BCH12-W2 CABLE HOOK 3/4 1 WTH ROD FASTENER	200	3.76	752.00
Connections/Components	Part #245240 B-LINE BR-32-4W THREADED BRIDLE RING 2	100	2.49	249.00
Connections/Components	Part #349324 T&B L-7-50-9-M CABLE TIE, 7.5	1	80.00	80.00
Connections/Components	Part #139594-EA NVENT CADD BC BEAM CLAMP FITS 1/2	50	1.61	80.50
		2,903	21,580.97	37,096

11. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	847	0	847.00	0.00

12. Total Public Budget - Loanable (Counts toward the nonpublic loan calculation)

	Public Allocations	Estimated Nonpublic Loan Amount	Estimated Total Sub-Allocations
Network/Access Costs	(No Response)	0.00	0.00
School Internal Connections and Components	(No Response)	0.00	0.00
Other	(No Response)	0.00	0.00
Totals:	0.00	0	0

13. Total Public Budget – Non-Loanable (Does not count toward the nonpublic loan calculation)

	Sub-Allocation
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
School Internal Connections and Components	16,666.51

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	Sub- Allocation
Professional Services	20,429.00
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	37,095.51

14. **School Connectivity Totals**

	Total Sub-Allocations
Total Loanable Items	0.00
Total Non-loanable Items	37,095.51
Totals:	37,096

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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. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

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)	0.00
		0	0.00	0

7. 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)

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Community Connectivity (Broadband and Wireless)

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	Sub-Allocation
Totals:	0.00

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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). If the district currently meets the required speed, enter “Currently Met” in the last box: Expected Date When Required Speed Will be Met.

	Number of Students	Required Speed in Mbps	Current Speed in Mbps	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	(No Response)	0.00	(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)

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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.

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?")

In addition, describe how the district ensures equitable access to instruction, materials and assessments and participation in the general curriculum for both SWD and English Language Learners/Multilingual Learners (ELL/MLL) students.

Please note: If this plan has been identified as a Remote Learning Plan to be submitted and reviewed on an expedited basis, the district should explain how this plan will facilitate remote and hybrid learning, in lieu of responding to the question above.

(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)

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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."

Please note: If this plan has been identified as a Remote Learning Plan to be submitted and reviewed on an expedited basis, the district should provide a statement confirming that the district has provided or will provide professional development on these devices to its staff, in lieu of responding to the question above.

(No Response)

9. **Districts must contact one of the SUNY/CUNY teacher preparation programs listed on the document on the left side of the page 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)

- 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. **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.

11. **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.

12.

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Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.

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)	0.00
		0	0.00	0

13. Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	847	0	847.00	0.00

14. If you are submitting an allocation for Classroom Learning Technology complete this table.

	Public School Sub-Allocation	Estimated Nonpublic Loan Amount (Based on Percentage Above)	Estimated Total Public and Nonpublic Sub-Allocation
Interactive Whiteboards	(No Response)	0.00	0.00
Computer Servers	(No Response)	0.00	0.00
Desktop Computers	(No Response)	0.00	0.00
Laptop Computers	(No Response)	0.00	0.00
Tablet Computers	(No Response)	0.00	0.00
Other Costs	(No Response)	0.00	0.00
Totals:	0.00	0	0

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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 new 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. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.**

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)	0.00
		0	0.00	0

6. **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	

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Pre-Kindergarten Classrooms

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	Sub-Allocation
	(No Response)
Enhance/Modernize Educational Facilities	(No Response)
Other Costs	(No Response)
Totals:	0.00

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Replace Transportable Classrooms

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

(No Response)

- 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)

- 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)

- Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.**

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)	0.00
		0	0.00	0

- 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:	0.00

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High-Tech Security Features

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High-Tech Security Features

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

This part of the project is for wiring for a High Tech Security upgrade. The high-tech security equipment is being purchased through direct district funds, but the wiring needed for this project is part of our SSIP.

The second part of this Smart Schools Implementation plan aligns with the district's fourth goal in its 2022-2025 3- year technology plan. This will focus on security equipment. The 4th Goal of the technology plan states that we will expand our infrastructure wiring for security features. This goal can be found on Page 20 of the district's 3-Year technology plan. The link is on the Schools website www.alexanderscd.org under the IT department and also provided by [clicking here](#). The district has been able to expand its security cameras through district funds. This infrastructure wiring goes directly towards Goal 4 of the Smart Schools implementation guidance which states "Install high-tech security features in school buildings and on school campuses, including but not limited to video surveillance, emergency notification systems, and physical access controls." The district is upgrading its Emergency notification systems and physical access controls with district funds, but needs the infrastructure wiring to connect these devices as part of this Smart Schools Implementation plan.

The district is purchasing Emergency Notification systems for the Classrooms, Hallways, Offices and outside spaces of the district. This equipment requires wiring to the internal Switch closets to communicate over the network and to draw power in some cases. The district will utilize Wayne - Finger Lakes BOCES Facility Services for this second part of the Smart Schools Implementation plan as they have experience in our districts working on both previous Smart Schools Implementation plans.

The action Plan for this part of the Smart Schools Implementation plan will be similar to the first part.

1. Planning the implementation and placement of the Cat-6 cabling runs. The District has meet with WFL BOCES Facility services and received their proposal

2. Applying for the District's 3rd Smart Schools Investment Plan to cover the cost of this project.

The district will follow the step it has taken on its two previous Smart Schools Investment plans to apply for infrastructure funding with its available Smart Schools funds.

3. Purchasing Cat 6 cabling,metallic boxes, raceways, pipe chases, wall penetrations patch panels and labeling, through Wayne Finger Lakes BOCES Teams

4. Installation , termination and testing of the Cat-6 wiring infrastructure upgrade.

WFL BOCES Facility Services will provide and install one Cat6 data cable from the closest Wiring Closet to each device location (pre-determined) as follows:

High School/Middle School:

- 80 data drops for Small Message Boards
- 4 data drops for Medium Message Boards
- 4 data drops for Large Message Boards,
- 20 data drops for Double Sided Message Boards
- 29 data drops for Interior Strobes
- 12 data drops for Exterior Strobes
- 10 data drops for Interior Horns
- 3 data drops for Exterior Horns
- 4 data drops (and 4 18/2 conductor FA wire to nearest smoke detector) for Emergency Buttons
- 3 data drops for MICs
- 7 data drops to existing Vape Sensors.

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High-Tech Security Features

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Elementary School:

- 53 data drops for Small Message Boards
- 5 data drops for Medium Message Boards
- 9 data drops for Double Sided Message Boards
- 11 data drops for Interior Strobes
- 9 data drops for Exterior Strobes
- 2 data drops for Interior Horns
- 3 data drops for Exterior Horns
- 1 data drop (and 1 18/2 conductor FA wire to nearest smoke detector) for Emergency Button
- 1 data drop for a MIC

WFL BOCES Facility Services will include all terminations, testing, device end patch cables, metallic boxes, raceways, pipe chases, wall penetrations, patch panels and labeling. All devices listed above will be installed by our Emergency notification system vendor, Rel-comm, with district funds that are not part of this Smart Schools Implementation plan.

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. Smart Schools plans with any expenditures in the High-Tech Security category require a project number from the Office of Facilities Planning. Districts must submit an SSBA LOI and receive project numbers prior to submitting the SSIP. As indicated on the LOI, some projects may be eligible for a streamlined review and will not require a building permit. Please indicate on a separate row each project number given to you by the Office of Facilities Planning.**

Project Number
18-02-02-04-7-999-002

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

- Yes
 No

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

Name	License Number
Gian-Paul Piane	25315

5. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.**

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	WFL BOCES Installation	1	113,674.00	113,674.00
Electronic Security System	Wiremold V700 Raceway System	150	19.04	2,856.00

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High-Tech Security Features

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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	Wiremold V53703 V700 Raceway Clip	450	0.75	337.50
Electronic Security System	3/4-inch EMT Conduit	10	11.00	110.00
Electronic Security System	Fire Caulk	4	14.30	57.20
Electronic Security System	Klein Foam Wire Lubrication	6	22.32	133.92
Electronic Security System	Jet Line PL232B Poly	1	57.89	57.89
Electronic Security System	BELDEN 2413 007A1000 CAT6, PLENUM, REEL-IN-BOX, 1000FT PURPLE	68	352.00	23,936.00
Electronic Security System	HUBBELL PR HJU6P24 JACK, HJU6, CAT6, UNI, PU, 24PK	24	249.60	5,990.40
Electronic Security System	Part # 9998339 HUBBLE PR HSB1OWP HOUSING SURFACE MOUNT, 1 PORT, OW, PLENUM	270	15.96	4,309.20
Electronic Security System	Part #10331653 KELLEMS CB2 2-PORT CEILING CONNECTIVITY BRACKET	50	14.32	716.00
Electronic Security System	Part #878616 HUBBLE PR HPJ24 PATCH PANEL, JACK, UNLD 24P 1U19	16	71.20	1,139.20
Electronic Security System	Part #152216 CS-COMMSCO 557548-1 CABLE MGMT SUPPORT BRACKET FOR CABLE BEHIND 19	16	17.40	278.40
Electronic Security System	QUIKTRON 566-145-010 VS 10FT PRP NON BOOTED C6 CM	30	3.20	96.00
Electronic Security System	Part #711477 QUIKTRON 566-145-007 7Ft PATCH CABLE RJ45 To RJ45	232	2.63	610.16
Electronic Security System	Part #MM07-QIKC6-04NB QUIKTRON 566-120-007 COPPER PATCH CORD, CAT 6 RJ45-RJ45, NO BOOTS, GREEN 7Ft	10	2.63	26.30
Electronic Security System	Part #246467 WIREMOLD V5751 RACEWAY METALLIC v500/V700 SINGLE GANG EXTENSION ADAPTER 15/16	20	7.40	148.00
Electronic Security System	Part #246468 WIREMOLD V5751-2 RACEWAY METALLIC V500/V700 DOUBLE GANG EXTENSION ADAPTER 15/16	200	14.46	2,892.00

Smart Schools Investment Plan - Revised - Wiring Infrastructure plan

High-Tech Security Features

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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	Part #243355 WIREMOLD V711 RACEWAY METALLIC V700 SYSTEM 90 DEGREE FLAT ELBOW FITTING IVORY	50	2.12	106.00
Electronic Security System	Part 202653-EA WIREMOLD V5785 RACEWAY METALLIC V500/V700 COMBINATION CONNECTOR IVORY	50	4.12	206.00
Electronic Security System	Part #243343 WIREMOLD V5703 RACEWAY METALLIC V500/V700 SUPPORTING CLIP IVORY	300	0.56	168.00
Electronic Security System	Part #247078 ARLINGTON LV1 SINGLE GANG LOW VOLTAGE MOUNTING BRACKET	60	1.45	87.00
Electronic Security System	Part #284542 B-LINE BCH12-W2 CABLE HOOK 3/4	200	3.76	752.00
Electronic Security System	Part #270458 B-LINE BW2 WING CLIP FOR ROD AND WIRE FASTENER	200	0.72	144.00
Electronic Security System	PASS&SEY WPB33 1 GANG, WEATHERPROOF	22	15.26	335.72
Electronic Security System	PASS&SEY WPB332 2 GANG, WEATHERPROOF BOX	28	27.58	772.24
Electronic Security System	Part #349324 T&B L-7-50-9-M CABLE TIE 7.5	2	80.00	160.00
Electronic Security System	Part #139594-EA NVENT CADD BC BEAM CLAMP FITS 1/2	200	1.61	322.00
Electronic Security System	Part #444541 GRT LKS CA GLRR-19060-BA 2 POST RACK, 31 RMU 60	2	224.05	448.10
		2,672	114,911.33	160,869

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

Enter each Sub-category Public Allocation based on the the expenditures listed in Table #5.

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	(No Response)
Electronic Security System	160,869.23
Entry Control System	(No Response)
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)

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High-Tech Security Features

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	Sub-Allocation
Totals:	160,869.23