

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

SSIP Overview

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Institution ID

80000053510

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

Brenda Hill

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

607-326-4151 x35

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

hillb@roxburycsd.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

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

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

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

InvestmentPlan.pdf
 Smart Schools Bond Investment Plan.pdf
 FinalInvestmentPlan.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.roxburycs.org/SmartSchoolsBondAct.aspx>

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.**

401

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:**

\$310,268

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.**

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	Sub-Allocations
School Connectivity	157,621
Connectivity Projects for Communities	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	79,624
Totals:	237,245

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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.

We have a Gigabyte connection through our RIC (Broome Tioga BOCES). It's rated 1 Gbps with the Internet 1 Gbps- <10Gbps.

- 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	310	310,000	31	1000	1000	Current

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

We had network assessments completed by three different integrated technology companies to determine our district’s needs for online testing connectivity and to make recommendations for upgrade to our infrastructure. Based on all three assessments, the following recommendations were made:

- Replace legacy network switches and infrastructure
- Upgrade and expand wireless network coverage
- Data cabling to wireless access points

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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?")

The district's plan is to utilize digital connectivity and technology to increase district wide communication and facilitate educational opportunities in and outside the classroom. This includes, but is not limited to, incorporating Google Ed, Castle Learning, Distance Learning, Virtual Field Trips, Online Databases, etc.

An infrastructure upgrade will create the backbone platform which will allow us to support all instructional components. The WiFi upgrade will allow us to increase the number of "one-on-one" devices available for student research, collaboration and instruction by providing an "always on" access to technology.

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 seen an increase of use of mobile technology in the district over the past two years and we expect this will continue to grow. During the 2015-16 school year, we are introducing "one-on-one" chromebooks to our 5th and 6th grade students; this year we have expanded to include 7th and 8th grade students. We will be continuing to increase the number of chromebooks and mobile devices to all other grades level over the course of the next three years in preparation for online testing and other educational opportunities. With the increase of chromebooks and mobile devices, we have noticed connection issues with our current WiFi architecture. We had three different integrated technology companies perform a network assessment to identify the target areas of the connection issues and to make recommendation to upgrade our wireless infrastructure. All three companies recommended upgrading our WiFi infrastructure to 802.11ac capability.

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
12-15-02-04-0-001-017

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

Was your project deemed eligible for streamlined review?

No

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

Name	License Number
William Taylor	15512

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.

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School Connectivity

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	Sub-Allocation
Network/Access Costs	80,914
Outside Plant Costs	0
School Internal Connections and Components	39,385
Professional Services	36,222
Testing	0
Other Upfront Costs	1,100
Other Costs	0
Totals:	157,621

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	Meraki MX84 Cloud Managed Security Appliance	1	1,217	1,217
Network/Access Costs	Meraki MS350-48FP L3 Stck Cld-Mngd 48x GigE 740W PoE Switch	7	7,097	49,681
Network/Access Costs	Meraki MS350-24P L3 Stck Cld-Mngd 24x GigE 370W PoE Switch Erate 80% discount	2	800	1,600
Connections/Components	Meraki 1 GbE SFP Copper Module	3	241	723
Connections/Components	Meraki 10 GbE Twinax Cable with SFP+ Modules, 3 Meter	2	92	183
Connections/Components	Meraki 10G Base SR Multi-Mode	4	607	2,428
Network/Access Costs	Meraki MR42 Cloud Managed Erate 80% Discount	53	150	7,950
Professional Services	Professional Services- Annese	1	29,222	29,222
Professional Services	Architect Fees	1	7,000	7,000
Other Upfront Costs	Rental of lift for Cable Installation	1	1,100	1,100
Network/Access Costs	Meraki MX84 Advanced Security	1	2,640	2,640
Network/Access Costs	Meraki MS350-48FP Enterprise License	7	904	6,329

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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
Network/Access Costs	Meraki MS350-24P Enterprise License	2	502	1,003
Network/Access Costs	Meraki MR Enterprise License	53	198	10,494
Connections/Components	Cat 6A cable installation NYS OGS contract rate	67	500	33,500
Connections/Components	Hubbell 12 Port Cat 6A Verticle Patch Panel	1	129	129
Connections/Components	Hubbell Cat 6 24 Port Patch Panel	2	175	350
Connections/Components	Hubbell Cat 6 Nextspped 48 Port Patch Panel	1	340	340
Connections/Components	Hubbell Category 6 panel insert	88	7	616
Connections/Components	Hubbell Surface Box 1 Port Office White	88	3	264
Connections/Components	3/4 J-Hook Cable Support	100	1	100
Connections/Components	Category 6 Patch Cables	176	2	352
Connections/Components	2 inch J hook cable support	100	4	400
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

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High-Tech Security Features

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

The smart schools bond act funds will be used to replace our current 4 IP camera system with Meraki system with enhanced features which will included 9 HD IP indoor cameras, 11 HD IP outdoor cameras, and 2 HD IP outdoor cameras at the bus garage. The new camera will require new data cabling at each camera location for both the district s main building and the bus garage. The HD IP camera system will provide better access to the system by administration as well as allowing for high megapixel playback.

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
12-15-02-04-0-001-017

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
William Taylor	15512

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)	0
Electronic Security System	65,784
Entry Control System	0
Approved Door Hardening Project	0
Other Costs	13,840
Totals:	79,624

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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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	Meraki MV21 Cloud Managed Indoor HD Dome Camera	23.00	792	18,216
Electronic Security System	Meraki MV71 Cloud Managed Outdoor HP Dome Camera	13.00	914	11,887
Electronic Security System	Meraki Wall Mount Arm for MV21 and MV71	14.00	152	2,126
Electronic Security System	3FT CAT 6 GIG Snagless Molded	55.00	6	330
Electronic Security System	Meraki MS350-24P PoW Switch	1.00	3,938	3,938
Electronic Security System	Meraki MV Enterprise License and Support	35.00	549	19,215
Other Costs	Meraki Camera Configuration- Phase 1	1.00	11,000	11,000
Other Costs	Professional Services- Annese	1.00	2,840	2,840
Electronic Security System	Meraki MS350-24P PoW Switch License	1.00	502	502
Electronic Security System	Installation, Termination, Testing, Certification of CAT 6 for Cameras (Include CAT 6 for 22 runs)	1.00	9,570	9,570