**Smart Schools Investment Plan - 2016-17 Version (Original) - North Shore CSD_First Submission_#1**

SSIP Overview

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**Institution ID**

800000048966

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

Elliot Kaye

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

516.277.7059

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

kayee@northshoreschools.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 occured 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.**

Smart Schools Investment 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.northshoreschools.org/district/forms/Smart-%20Schools-%20Investment%20-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.**

3,326

**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:**

$413,397

**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 | 413,397 |
| Connectivity Projects for Communities | |

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| | Sub-Allocations |
|---|---|
| | 0 |
| Classroom Technology | 0 |
| Pre-Kindergarten Classrooms | 0 |
| Replace Transportable Classrooms | 0 |
| High-Tech Security Features | 0 |
| **Totals:** | **413,397** |

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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 procures data services from two separate Internet service providers to offer in aggregate up to 400 Mbps of Internet bandwidth to our approximately 2663 students and 660 faculty/staff. The district's agreement with both ISP's also includes the provision to allow for burstable speed increases by request.
All District buildings have full wireless coverage with 802.11ac access points.

**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 | 2,663 | 266,300 | 266.3 | 400 | N/A | N/A |

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

In accordance with NYSED's recommendation, we have engaged in strategic planning to build long-term capacity in the District with our Smart Bond allocation. We have designed our Smart Schools Investment Plan to address the improvement of educational needs of all of our students in our District by targeting an essential instructional technology resource that all stakeholders regularly use and depend upon. We believe that our allocation of the Smart Bond monies would be most equitably applied in support of our three-year plan to comprehensively upgrade the network wiring infrastructure in all of our school buildings.
This plan has been informed by a needs assessment of the District's technology infrastructure and assets, taking into consideration input from various stakeholder constituencies, and is in alignment with the investment strategies and priorities outlined in the District's New York State Education Department approved Instructional Technology Plan Survey. This proposed work will be classified as a "School Connectivity Project" and will be assigned a project number and building permit by the New York State Office of Facilities Planning. The project is being coordinated by the technology department in cooperation with various District stakeholders, Nassau BOCES, and its partners.

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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?)**

In alignment with our Smart Schools Investment Plan, we have developed a three-year plan to comprehensively upgrade the network wiring infrastructure in all of our school buildings. This will provide an immediate and equitable level of benefit to every teacher, student, and staff member as well as establishing future support for the further proliferation of mobile student devices. The new wiring will also allow for future technology improvements that can made to the instructional spaces to better facilitate real-time student and staff collaborations in learning, such as creating 21st-century learning spaces that are capable of generating or consuming content-rich interactive multimedia capabilities in classrooms.

**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.**

All District buildings have full wireless coverage with 802.11ac access points. We additionally plan to use a portion of the Smart Bond allocation to fund the upgrade of all wireless access point network cables to Cat-6A (part of our 3-year network wiring upgrade project), which will be capable of supporting wireless bandwidth of up to 10 GBPS.

**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 |
|---|
| 28-05-01-06-7-999-004 |

**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 |
|---|---|
| BBS Architects | 165141 |

**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 | 0 |
| Outside Plant Costs | 0 |
| School Internal Connections and Components | 413,397 |
| Professional Services | 0 |
| Testing | |

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| | Sub-Allocation |
|---|---|
| | 0 |
| Other Upfront Costs | 0 |
| Other Costs | 0 |
| **Totals:** | **413,397** |

**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.<br>Repeat to add another item under each type. | Item to be purchased | Quantity | Cost per Item | Total Cost |
|---|---|---|---|---|
| Connections/Components | Cat6A Plenum Cable Tyco Part # TE640P-BL02 | 25 | 701 | 17,525 |
| Connections/Components | Cat6 Plenum Cable Superior Essex Part # 77-240-2B | 380 | 301 | 114,380 |
| Connections/Components | Cat6A Jack Insert Hubbell Part # HJ6AR | 196 | 11 | 2,156 |
| Connections/Components | Cat6 Jack Insert Hubbell Part # HXJ6R | 2,508 | 7 | 17,556 |
| Connections/Components | 2 Port Surface Mount Housing Part # ISB2EI | 98 | 2 | 196 |
| Connections/Components | 1 Port Faceplate Hubbell Part # IFP11EI | 72 | 2 | 144 |
| Connections/Components | 2 Port Faceplate Hubbell Part # IFP12EI | 116 | 2 | 232 |
| Connections/Components | 3 Port Faceplate Hubbell Part # IFP13EI | 97 | 2 | 194 |
| Connections/Components | 4 Port Faceplate Hubbell Part # IFP14EI | 76 | 2 | 152 |
| Connections/Components | 6 Port Faceplate Hubbell Part # IFP16EI | 47 | 2 | 94 |
| Connections/Components | Blank Insert Hubbell Part # SFBE10 | 5 | 3 | 15 |
| Connections/Components | 24 Port Modular Patch Panel Hubbell Part # UDX24E | 7 | 63 | 441 |
| Connections/Components | 48 Port Modular Patch Panel Hubbell Part # UDX48E | 30 | 72 | 2,160 |

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| Select the allowable expenditure type.<br>Repeat to add another item under each type. | Item to be purchased | Quantity | Cost per Item | Total Cost |
|---|---|---|---|---|
| Connections/Components | 2 Post Rack Hubbell Part # HPW84RR19 | 7 | 174 | 1,218 |
| Connections/Components | 4' High X 30 Inch Depth Wall Mount Cabinet Part # CWR-26-32PD | 2 | 780 | 1,560 |
| Connections/Components | Fan Kit Part # CWR-FKIT | 2 | 125 | 250 |
| Connections/Components | Right Angled Bracket For Wap Part # 1011-00 | 2 | 68 | 136 |
| Connections/Components | Wall Mount Protective WAP Enclosure Part # 1016-C | 7 | 192 | 1,344 |
| Connections/Components | 1U Rack Mount Fiber Panel Corning Part # CCH-01U | 6 | 197 | 1,182 |
| Connections/Components | 10G OM4 LC Adaptor Plate Corning Part # CCH-CP12-E4 | 10 | 79 | 790 |
| Connections/Components | 10G OM4 LC Mechanical Fiber Connector Corning Part # 95-050-99-X | 120 | 15 | 1,800 |
| Connections/Components | 12 Strand OM4 Armored Plenum Fiber Corning Part # 012T88-33190-A3 | 2,950 | 3 | 8,850 |
| Connections/Components | Cat6a Copper Patch Cord For WAP Part # HC6AB03 | 98 | 10 | 980 |
| Connections/Components | 18 Inch Ladder Rack Part # 10250-718 | 10 | 93 | 930 |
| Connections/Components | 18 Inch Wall Angled Bracket Part 11421-718 | 6 | 24 | 144 |
| Connections/Components | T Junction Splice Part # 11302-701 | 6 | 8 | 48 |
| Connections/Components | Foot Kit Part # 11309-701 | 2 | 27 | 54 |
| Connections/Components | Top Plate Part # 10595-718 | 7 | 30 | 210 |
| Connections/Components | 700 Series Metallic Raceway Wiremold Part # V700 | 1,200 | 1 | 1,200 |
| Connections/Components | 700 Series Metallic Strap Wiremold Part V704 | 360 | 1 | 360 |
| Connections/Components | 700 Series Metallic Flat 90 Wiremold Part V711 | 110 | 1 | 110 |
| Connections/Components | 700 Series Metallic Internal 90 Wiremold Part V717 | 110 | 2 | 220 |
| Connections/Components | 700 Series Metallic External 90 Wiremold Part V718 | 110 | 2 | 220 |
| Connections/Components | 700 Series Metallic Off Set Connector Wiremold Part V5786 | 110 | 8 | 880 |
| Connections/Components | Single Gang Surface Mount Box | 120 | 6 | 720 |

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| Select the allowable expenditure type.<br>Repeat to add another item under each type. | Item to be purchased | Quantity | Cost per Item | Total Cost |
|---|---|---|---|---|
| | Wiremold Part # V5748 | | | |
| Connections/Components | 24 Series Metallic Raceway Base & Cover Wiremold Part # V2400BC | 3,500 | 2 | 7,000 |
| Connections/Components | 2400 Series Metallic Entrance Fitting Wiremold Part # V2410A | 210 | 4 | 840 |
| Connections/Components | 2400 Series Metallic Elbow Wiremold Part # V2411FO | 140 | 13 | 1,820 |
| Connections/Components | 2400 Series Single Gang Surface Mount Box Wiremold Part # V2448 | 210 | 8 | 1,680 |
| Connections/Components | 3000 Series Metallic Raceway Base Wiremold Part # V3000B | 20 | 2 | 40 |
| Connections/Components | Fire Stop Caulk STI Part # SSS100 | 24 | 13 | 312 |
| Connections/Components | 2U Rack Mount Fiber Panel Corning Part # CCH-02U | 1 | 234 | 234 |
| Connections/Components | 2400 Series Metallic Tee Fitting Wiremold Part # V2415FO | 6 | 16 | 96 |
| Connections/Components | 2400 Series Metallic Bridge Fitting Wiremold Part # V2475D | 20 | 46 | 920 |
| Connections/Components | 2 Inch J-Hooks Part # CAT32HPBCB | 200 | 5 | 1,000 |
| Connections/Components | Labor To Install/Terminate/Test Dual Station 1 Cat6/1 Cat6A WAP Drop | 343 | 84 | 28,812 |
| Connections/Components | Labor To Install/Terminate/Test Single Cat6 Camera Drop | 118 | 84 | 9,912 |
| Connections/Components | Labor To Install/Terminate/Test Single Cat6 Time Clock Drop | 29 | 84 | 2,436 |
| Connections/Components | Labor To Install/Terminate/Test Single Cat6 Network Drop | 63 | 84 | 5,292 |
| Connections/Components | Labor To Install/Terminate/Test Dual Cat6 Network Drop | 348 | 84 | 29,232 |
| Connections/Components | Labor To Install/Terminate/Test Triple Cat6 Network Drop | 364 | 84 | 30,576 |
| Connections/Components | Labor To Install/Terminate/Test Quad Cat6 Network Drop | 333 | 84 | 27,972 |
| Connections/Components | Labor To Install/Terminate/Test Five Cat6 Network Drop | 173 | 84 | 14,532 |
| Connections/Components | Labor To Install/Terminate/Test Six Cat6 Network Drop | 84 | 84 | 7,056 |
| Connections/Components | Labor To Install/Terminate/Test Eight | 7 | 84 | 588 |

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| Select the allowable expenditure type.<br>Repeat to add another item under each type. | Item to be purchased | Quantity | Cost per Item | Total Cost |
|---|---|---|---|---|
| | Cat6 Network Drop | | | |
| Connections/Components | Labor To Install Right Angled Bracket For WAP | 2 | 84 | 168 |
| Connections/Components | Labor To Install Protective Wall Mount WAP Enclosure | 7 | 84 | 588 |
| Connections/Components | Labor To Install 24 Port Modular Patch Panel | 4 | 84 | 336 |
| Connections/Components | Labor To Install 48 Port Modular Patch Panel | 15 | 84 | 1,260 |
| Connections/Components | Labor To Install 700 Series Metallic Raceway 1000' | 120 | 84 | 10,080 |
| Connections/Components | Labor To Install 3000 Series Metallic Raceway 20' | 3 | 84 | 252 |
| Connections/Components | Labor To Install 4 Inch EMT Wall Sleeve | 40 | 84 | 3,360 |
| Connections/Components | Labor To Install 4 Inch EMT 60' | 25 | 84 | 2,100 |
| Connections/Components | Labor To Install 1 Inch EMT 60' | 6 | 84 | 504 |
| Connections/Components | Labor To Install 2 Inch EMT Wall Sleeve | 12 | 84 | 1,008 |
| Connections/Components | Labor To Perform 4 Inch Floor Core | 10 | 84 | 840 |
| Connections/Components | Labor To Perform 1 1/4 Inch Floor Core | 4 | 84 | 336 |
| Connections/Components | Labor To Perform 4 Inch Wall Penetration | 40 | 84 | 3,360 |
| Connections/Components | Labor To Perform 2 Inch Wall Penetration | 12 | 84 | 1,008 |
| Connections/Components | Labor To Perform 1 1/4 Inch Wall Penetration | 128 | 84 | 10,752 |
| Connections/Components | Labor To Install 18 Inch X 18 Inch X 8 Inch Pull Box With Cover | 2 | 84 | 168 |
| Connections/Components | Labor To Build/Install 4 Post 7' High Open Rack | 8 | 84 | 672 |
| Connections/Components | Labor To Build/Install 2 Post 7' High Open Rack | 11 | 84 | 924 |
| Connections/Components | Labor To Install Plywood Backboard | 4 | 84 | 336 |
| Connections/Components | Labor To Install Fan Kit | 2 | 84 | 168 |
| Connections/Components | Labor To Install 18 Inch Ladder Rack/Cable Runway 30' | 20 | 84 | 1,680 |

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| Select the allowable expenditure type.<br>Repeat to add another item under each type. | Item to be purchased | Quantity | Cost per Item | Total Cost |
|---|---|---|---|---|
| Connections/Components | Labor To Install 1U Rack Mount Fiber Panel | 3 | 84 | 252 |
| Connections/Components | Labor To Install 2U Rack Mount Fiber Panel | 1 | 84 | 84 |
| Connections/Components | Labor To Install 10G LC Adaptor Plate 12 Fibers | 5 | 84 | 420 |
| Connections/Components | Labor To Install 10G LC Mechanical Fiber Connector | 25 | 84 | 2,100 |
| Connections/Components | Labor To Install 12 Strand 10G OM4 Armored Plenum Fiber 400' | 139 | 84 | 11,676 |
| Connections/Components | Labor To Test Fiber Per Strand | 13 | 84 | 1,092 |
| Connections/Components | Labor To Install Fire Stop Caulk | 18 | 84 | 1,512 |
| Connections/Components | Labor To Install 2 Inch J-Hook | 50 | 84 | 4,200 |
| Connections/Components | Labor To Install Materials/Set Up Break Down | 40 | 84 | 3,360 |
| (No Response) | (No Response) | (No Response) | (No Response) | (No Response) |