

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications - Overview

Overview of Program Format

The educational programming section for the North Stonington Elementary School study is organized into six sections. Each section identifies program and support spaces that are programmatically related. All spaces within the facility are identified in one of the following sections:

1. Academic Classroom & Support Spaces
2. Technology Education, Performing & Visual Arts
3. Assembly and Community Use
4. Administration and Student Services
5. Facilities Management and Support

A space utilization program is provided in the beginning of each section indicating the name of each space, the number of the spaces required and the size of the space. Following the space program are diagrams that show the relationship and adjacencies of the proposed program spaces. Informational data sheets are provided for each space. The information on these pages is provided as a starting point for the architectural design team. Further review with the school for final room layout, furnishings and fixtures will be required prior to the development of the final design.

1. **ACADEMIC**
 - Pre-Kindergarten
 - Kindergarten
 - Grade 1
 - Grade 2
 - Grade 3
 - Grade 4
 - Grade 5
 - Grade 6
 - Special Education
2. **TECHNOLOGY EDUCATION, PERFORMING & VISUAL ARTS**
 - Music
 - Art
 - Technology Education
3. **ASSEMBLY & COMMUNITY USE**
 - Media Center
 - Cafeteria and Kitchen
 - Assembly / Gymnasium
4. **ADMINISTRATION & STUDENT SERVICES**
 - Administrative Offices
 - Health/Nurse
5. **FACILITY MANAGEMENT & SUPPORT**
 - Boiler Plant / Mechanical / Electrical Infrastructure
 - Facilities Offices & Building Storage

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Educational Program Specifications – Pre Kindergarten

Program Objectives/Goals - The North Stonington Integrated Preschool's mission is to provide a safe, nurturing learning community where all children are appropriately educated in their development of language, social emotional, cognitive and motor skills. The Pre-school environment promotes the child's development through a multi-sensory approach to learning. Due to the fact that the young children enter the pre-school program at different rates of development, the program must be differentiated to ensure every child is successful. This integrated environment is closely aligned with the special education, speech and language and the occupational therapy programs in its design to encourage exploration and independence in all aspects of a child's development through child-initiated and teacher initiative activities.

Program Requirements and Activities: - Currently North Stonington Elementary School has four half day programs for 3 and 4 year old placed in two classrooms. The goal will be to provide a universal pre-school for all 3 and 4 year old children of North Stonington.

- Each classroom needs space for whole group, center-based and independent activities which include multi-sensory approach to learning
- Environment must provide daily opportunities for exploration of materials, engage in concrete activities, interact with peers and adults to develop language and an understanding of the world.
- Set-up for at least 2 -3 computers in each classroom.
- A lavatory is needed in each classroom due to the possible need to toilet train students.
- Separate Pre-school entrance and exit to include families into the daily school routine and allow for communication.

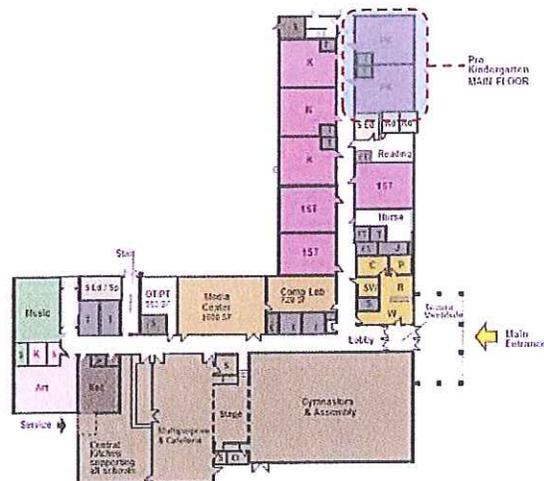
Space Occupancy: Each classroom typically houses a class of 10 – 12 students with a highly qualified pre-school teacher and two Para-professionals. Throughout the school day the speech-language pathologist and the occupational therapist will be involved in the children's instruction. The space requirements will include a classroom, multiple small group instruction space, stimulus shelter, storage rooms and serves as an office for the teacher. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching models and age appropriate activities.

Existing Conditions:

Current Space Limitations: Lack of small of multiple small group instructional areas; children's storage space; resource storage space; pre-school designated entrance/exit as well to play area; physical access between classrooms and to program storage (e.g. adaptive/gross motor equipment; ADA compliant rest room and outdoor age appropriate play area. –



CONCEPT DESIGN - The pre-kindergarten classrooms are located on the north wing of the building with direct access to the exit and an enclosed playground. The program will house one full day and one half day (two Sessions) classrooms.



Educational Program Specifications – Pre Kindergarten

Program Requirements

The Pre-school program requirements will include classrooms, storage areas, and classroom office space. The space requirements will include a classroom, storage area and a space that serves as an office for the teacher. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching models and age appropriate activities.

Pre-school Classrooms

Quantity: 2
Proposed SF: 780 to 850

Space Design Concept:

A physical space with tables, cubbies for student belongings, whole group activities and play areas including:

- Designated play areas
- water table
- art center
- kitchen
- independent reading

Rest area for full day program students

ADA compliant rest room

Separate pre-school entrance and exit

Close location to playground

Fenced in play yard

Joint access to each classroom to share facilities as well as access to motor room

Program Activities

Support activities in a flexible learning environment that accommodates a number of teaching models and cognitive, social and motor activities.

Loose Furnishings:

Rectangular tables with chairs for small group activities

Circular tables for snack and art activities

Mobile computer stations

Teacher Desk and Chair

Fixed Equipment

| | |
|---|-----|
| Marker/white board | yes |
| Tack board & display boards | yes |
| Projection screen/surfaces | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinets | yes |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---------------|----------------|-----------------------------|
| floor material: | TBD | base material: | TBD |
| wall material: | TBD | finish: | TBD |
| ceiling material: | TBD | height: | 8'-0" minimum |
| hardware: | ada compliant | lighting | multi level direct/indirect |
| fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting
HVAC systems including Air Conditioning
Natural and indirect Lighting
Operable windows

Technology

| | |
|--------------------------------|---------------------------------------|
| Power outlet - floor and walls | yes |
| Media projection system | yes |
| Smart-boards | yes |
| Voice, video and data ports | yes |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the schools technology plan |

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Educational Program Specifications – Kindergarten

Program Objectives/Goals - The North Stonington Elementary School kindergarten's mission is to provide a safe, nurturing learning community where all children receive age appropriate instruction for their development of language, social emotional, cognitive and motor skills. This integrated environment is designed to encourage exploration and independence in all aspects of a child's development. Through instruction appropriate for each child, the students will attain skills leading to the development of literacy and numeracy skills. Daily opportunities will be provided for the students to achieve their personal best, become responsible and respectful, and embrace lifelong learning in a positive, effective learning environment. This integrated environment is closely aligned with the special education, speech and language and the occupational therapy programs in its design to encourage exploration and independence in all aspects of a child's development through child-initiated and teacher initiative activities.

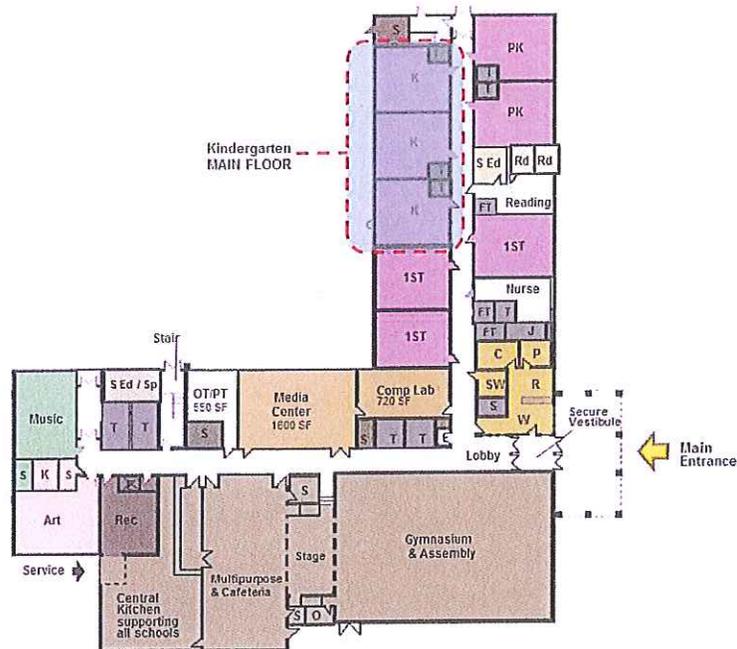
Program Requirements and Activities- Currently North Stonington Elementary School has three full day programs for 4 and 5 year old placed in three classrooms.

Each classroom needs space for center-based and whole group activities which include multi-sensory approach to learning
Technology – document camera, interactive white board with projector, television hook-up, etc.
SRBI– small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place
Differentiated Instruction – small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place
State and Federal mandates (Special Education, Curricular, Data Driven instruction, Standards, etc.)
All classrooms have exit to outside.
A lavatory is needed in each classroom with storage.
Location near sensory/ motor room.

Space Occupancy: Each of the three classrooms typically houses a class of 17 to 22 students with a highly qualified kindergarten teacher and a half-time Para-professional. Throughout the school day the speech-language pathologist, reading teacher, special education teacher and the occupational therapist will be involved in the children's instruction. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching models and age appropriate activities. There is a need for one door for entrance and exit; windows that open upward – 1 of which is deemed an emergency exit.

Existing Conditions- Current space and storage limitations; extremely limited electric outlets, limited 'drop' for technology – these drops dictate room arrangement; cold water only in utility sink. Lack of small of multiple small group instructional areas; children's storage space; resource storage space; ADA compliant rest room in one classroom and outdoor age appropriate play area.

CONCEPT DESIGN - The kindergarten classrooms are located on the first floor north wing of the building with direct access to the exit and an enclosed playground. Each of the classrooms have an accessible toilet.



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Educational Program Specifications – Kindergarten Classroom

Quantity: 3
Proposed SF: 880 to 900

Space Design Concept: Each kindergarten classroom must support a number of teaching styles, including whole group, small group and individual instruction.

Pod of 3 classrooms with storage area located in the middle and classrooms connected on the outside.

Designated building area, water table, art center,

A large physical space with areas for instruction, play, reading, storage and student work

Close exit to playground

Fenced in play yard

Joint access to each classroom to share facilities as well as access to motor room

Toilets within Classroom

Blinds on windows and doors for security

Program Activities

Support activities in a flexible learning environment that accommodates a multitude of teaching models and cognitive, social and motor activities.

Loose Furnishings:

Rectangular tables with chairs for small group activities

Circular tables for snack and art activities

Mobile computer stations

Teacher Desk and Chair

Fixed Equipment

| | |
|---|-----|
| Magnetic white board | yes |
| Tack board & display boards | yes |
| Projection screen/surfaces | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinets | yes |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---------------|----------------|-----------------------------|
| floor material: | TBD | base material: | TBD |
| wall material: | TBD | finish: | TBD |
| ceiling material: | TBD | height: | 8'-0" minimum |
| hardware: | ada compliant | lighting | multi level direct/indirect |
| fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting

HVAC systems including Air Conditioning

Natural and indirect Lighting

Operable windows

Technology

| | |
|--------------------------------|---------------------------------------|
| Power outlet - floor and walls | yes |
| Media projection system | yes |
| Smart board technology | yes |
| Voice, video and data ports | yes |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the schools technology plan |

Educational Program Specifications – Kindergarten Storage

Quantity: 3
Proposed SF: 60

Program Storage Needs:

Space design concept large enough for student personal belongings and backpacks
Overhead wall cabinets with doors
Storage areas with built in shelving for teacher supplies.
Countertop work space for teacher work space.
Built in closet for teachers.
Adequate storage – bookcases, cubbies, drawer units all designed for easy access for kindergarten children

Space Design Concept

The storage should be designed to accommodate books, storage grade level specific materials and equipment.

Program Activities

Storage of educational materials.

Loose Furnishings

Lateral file cabinet

Fixed Equipment

| | |
|---|-----|
| Display and curriculum material shelves | yes |
| Secure storage cabinet | yes |

Educational Program Specifications - Grade 1 Classrooms

Quantity: 3
Proposed SF: 775 to 825

Space Design Concept: The classroom should be designed for an integrated approach to instruction, multiple furniture arrangements and classroom configurations. The space will function as an office for the teacher.

A physical organization of space that facilitates rather than hinders pedagogy . . . organized to promote the various ways children acquire knowledge: visually, auditorally, kinesthetically, independently; cooperatively – thus creating multiple learning scenarios within one space

A physical space should large enough for various learning tasks and other gatherings such as meeting,

- Whole group and small group instruction
- An area for library, technology, math, and science/social studies.
- Wall space low enough for student access and visibility from both the floor and the table area.
- A large enough floor space for whole group instruction and gatherings on the floor and without sacrificing comfortable space for tables that seat 4- 6 students.

Color, lighting, furniture that helps to help delineate different learning zones – quiet vs. active; independent vs. small group; working with a variety of technology

Infrastructure that supports and enhances current and future technology (including multiple outlets on walls)

Furniture and equipment specifically designed for 6-7 year olds

Utility sink in classroom with hot and cold water and a water fountain

Bathroom in primary classrooms

Close proximity to other early primary classrooms and close proximity to bathrooms (if bathrooms are not in classroom)

Program Activities

Support activities in a flexible learning environment that accommodates a multitude of teaching models and cognitive, social and motor activities.

Loose Furnishings:

Rectangular tables with chairs for small group activities

Circular tables for snack and art activities

Mobile computer stations

Teacher Desk and Chair

Fixed Equipment

| | |
|---|-----|
| Magnetic white board | yes |
| Tack board & display boards | yes |
| Projection screen/surfaces | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinets | yes |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---------------|----------------|-----------------------------|
| floor material: | TBD | base material: | TBD |
| wall material: | TBD | finish: | TBD |
| ceiling material: | TBD | height: | 8'-0" minimum |
| hardware: | ada compliant | lighting | multi level direct/indirect |
| fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting
HVAC systems including Air Conditioning
Natural and indirect Lighting
Operable windows

Technology

| | |
|--------------------------------|---------------------------------------|
| Power outlet - floor and walls | yes |
| Media projection system | yes |
| Smart board technology | yes |
| Voice, video and data ports | yes |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the schools technology plan |

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Educational Program Specifications – Grade 1 Storage

Quantity: 3
Proposed SF: 60

Program Storage Needs:

Adequate storage – bookcases, cubbies, drawer units all designed for easy access for 6 and 7 year olds
Coat area for adults
Countertop work space for teacher work space.
Overhead wall cabinets with doors
Storage areas with built in shelving for teacher supplies.
Countertop work space for teacher work space.
Built-in closet for teachers.

Space Design Concept

The storage should be designed to accommodate books, storage grade level specific materials and equipment.

Program Activities

Storage of educational materials.

Loose Furnishings

Lateral file cabinet

Fixed Equipment

| | |
|--------------------------|-----|
| Display and book shelves | yes |
| Secure storage cabinet | yes |

Educational Program Specifications – Grade 2

Program Objectives/Goals: The goals of the North Stonington Elementary School’s second grade experience is to provide opportunities for the students to achieve their personal best by becoming confident readers and mathematicians, responsible and respectful young students, and lifelong learners in a positive and safe learning environment. This effective learning environment is foundational in its design addressing the following core domains: physical environment, psychological, pedagogical, technological, cultural and pragmatic.

Program Requirements and Activities:

Each classroom needs space for center-based and whole group activities which include multi-sensory approach to learning Technology – document camera, interactive white board with projector, etc.
 SRBI– small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place
 Differentiated Instruction – small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place
 State and Federal mandates (Special Education, Curricular, Data Driven instruction, Standards, etc.)

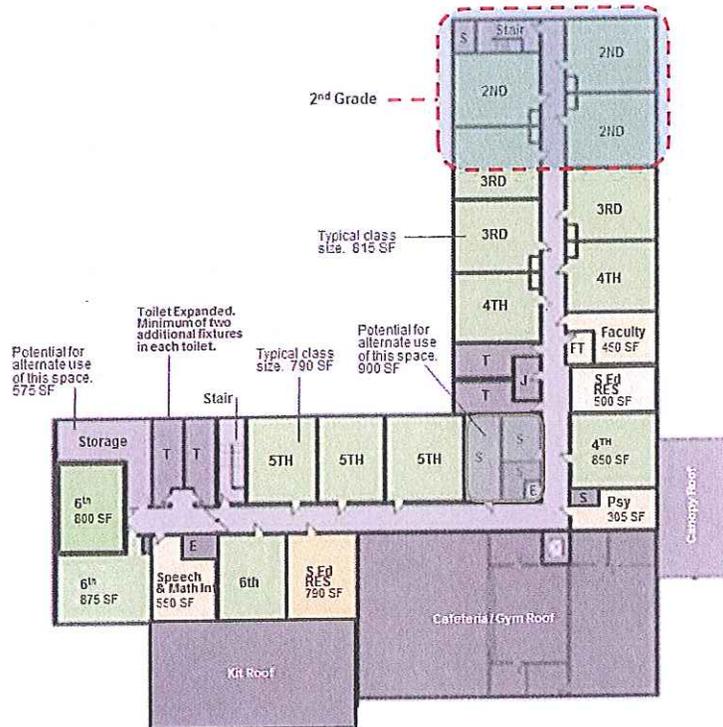
Space Occupancy:

Each of the three classrooms typically houses a class of 17 to 22 students with a highly qualified grade two teacher and a part-time Para-professional. Throughout a typical week the speech-language pathologist, reading teacher, special education teacher and the occupational therapist will be involved in the children’s instruction. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching models and age appropriate activities. There is a need for one door for entrance and exit; 2 windows – 1 of which is deemed an emergency exit.

Existing Conditions:

- Current space and storage limitations
- Extremely limited electric outlets, limited ‘drop’ for technology – these drops dictate room arrangement
- Cold water only in utility sink
- Lack of small multiple group instructional areas
- Great distance from boys and girls restrooms
- Limited children’s storage space and resource storage space;

CONCEPT DESIGN - The second grade classrooms are located on the second floor north wing of the building and are adjacent to the third and fourth grade classrooms that are housed in this wing of the building.



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Educational Program Specifications – Grade 2 Classrooms

Quantity: 3
Proposed SF: 775 to 825

Space Design Concept: The classroom should be designed for an integrated approach to instruction, multiple furniture arrangements and classroom configurations. The space will function as an office for the teacher.

A physical organization of space organized to promote the various ways children acquire knowledge: visually, auditorally, kinesthetically, independently; cooperatively – thus creating multiple learning scenarios within one space

A physical space should be large enough for various learning tasks and other gatherings such as class:

- o Whole group and small group instruction
- o An area for library, technology, math, and science/social studies.
- o Wall space low enough for student access and visibility from both the floor and the table area.
- o A large enough floor space for whole group instruction and gatherings on the floor and without sacrificing comfortable space for tables that seat 4- 6 students.

Color, lighting, furniture that helps to help delineate different learning zones – quiet vs. active; independent vs. small group; working with a variety of technology

Infrastructure that supports and enhances current and future technology (including multiple outlets on walls)

Furniture and equipment specifically designed for 7-8 year olds

Utility sink in classroom with hot and cold water

Close proximity to other second grade classrooms

Close proximity to bathrooms

Program Activities

Support activities in a flexible learning environment that accommodates a multitude of teaching models and instructional strategies.

Loose Furnishings

Student desks and chairs

Rectangular tables with chairs for small group activities

Computer stations

Teacher Desk and Chair

Fixed Equipment

| | |
|---|-----|
| Magnetic white board | yes |
| Tack board & display boards | yes |
| Projection screen/surfaces | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinets | yes |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---------------|----------------|-----------------------------|
| floor material: | TBD | base material: | TBD |
| wall material: | TBD | finish: | TBD |
| ceiling material: | TBD | height: | 8'-0" minimum |
| hardware: | ADA compliant | lighting | multi-level direct/indirect |
| fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting

HVAC systems including Air Conditioning

Natural and indirect Lighting

Operable windows

Technology

| | |
|--------------------------------|---------------------------------------|
| Power outlet - floor and walls | yes |
| Media projection system | yes |
| Smart-board technology | yes |
| Voice, video and data ports | yes |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the schools technology plan |

Educational Program Specifications – Grade 2 Storage

Quantity: 3
Proposed SF: 60

Program Storage Needs:

Adequate storage – bookcases, cubbies, drawer units all designed for easy access for students
Built in closet for teachers.
Countertop work space for teacher work space.
Overhead wall cabinets with doors

Space Design Concept

The storage should be designed to accommodate books, storage grade level specific materials and equipment.

Program Activities

Storage of educational materials.

Loose Furnishings

Lateral file cabinet

Fixed Equipment

| | |
|--------------------------|-----|
| Display and book shelves | yes |
| Secure storage cabinet | yes |

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Educational Program Specifications – Grade Three

Program Objectives/Goals - The goals of the North Stonington Elementary School's third grade experience is provide opportunities for the students to achieve their personal best by becoming confident readers and mathematicians, responsible and respectful young students, and lifelong learners in a positive and safe environment. The daily instruction guides the students to transition from becoming students who are learning to read to independent learners who learn from reading.

Program Requirements and Activities:

Each classroom needs space for center-based and whole group activities which include multi-sensory approach to learning
Technology – document camera, interactive white board with projector, etc.

SRBI– small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place
Differentiated Instruction – small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place

State and Federal mandates (Special Education, Curricular, Data Driven instruction, Standards, etc.)

Space Occupancy: Each of the three classrooms typically houses a class of 17 to 22 students with a highly qualified grade three teacher. Throughout a typical week the speech-language pathologist, reading teacher, special education teacher and the occupational therapist will be involved in the children's instruction. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching models and age appropriate activities. There is a need for one door for entrance and exit; 2 windows – 1 of which is deemed an emergency exit.

Existing Conditions:

Current space and storage limitations

Extremely limited electric outlets, limited 'drop' for technology – these drops dictate room arrangement

Cold water only in utility sink

Lack of small multiple group instructional areas

Great distance from boys and girl's restrooms

Limited children's storage space and resource storage space;

CONCEPT DESIGN - The third grade classrooms are adjacent to each other and are located on the second floor north wing of the building and are adjacent to the second and fourth grade classrooms that are housed in this wing of the building.



Educational Program Specifications – Grade Three Classrooms

Quantity: 3
Proposed SF: 775 to 825

Space Design Concept: The classroom should be designed for an integrated approach to instruction, multiple furniture arrangements and classroom configurations. The space will function as an office for the teacher.

A physical space should be large enough for various learning tasks for differentiated instruction and SRBI:

- Whole group and small group instruction
- An area for library, technology, math, and science/social studies.
- A large enough floor space for whole group instruction and gatherings on the floor and without sacrificing comfortable space for tables that seat 4- 6 students.

Color, lighting, furniture that helps to help delineate different learning zones – quiet vs. active; independent vs. small group; working with a variety of technology

Infrastructure that supports and enhances current and future technology (including multiple outlets on walls)

Furniture and equipment specifically designed for third grade students

Utility sink in classroom with hot and cold water

Close proximity to other third grade classrooms

Technology – document camera, interactive white board with projector, etc.

Counter space for teacher work area

Recess displayed ledges in hallway walls to display student

Program Activities

Support activities in a flexible learning environment that accommodates a multitude of teaching models and instructional strategies.

Loose Furnishings

Student desks and chairs

Rectangular tables with chairs for small group activities

Computer stations

Teacher Desk and Chair

Fixed Equipment

| | |
|---|-----|
| Magnetic white board | yes |
| Tack board & display boards | yes |
| Projection screen/surfaces | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinet's | yes |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---------------|----------------|-----------------------------|
| floor material: | TBD | base material: | TBD |
| wall material: | TBD | finish: | TBD |
| ceiling material: | TBD | height: | 8'-0" minimum |
| hardware: | ada compliant | lighting | multi level direct/indirect |
| fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting

HVAC systems including Air Conditioning

Natural and indirect Lighting

Operable windows

Technology

| | |
|--------------------------------|---------------------------------------|
| Power outlet - floor and walls | yes |
| Media projection system | yes |
| Smart board technology | yes |
| Voice, video and data ports | yes |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the schools technology plan |

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Educational Program Specifications – Grade Three Storage

Quantity: 3
Proposed SF: 60

Program Storage Needs:

Adequate storage – bookcases, cubbies, drawer units all designed for easy access for students
Built in closet for teachers.
Countertop work space for teacher work space.
Overhead wall cabinets with doors

Space Design Concept

The storage room should be designed for storage for both instructional student materials and teacher resource materials.

Program Activities

Storage of educational materials.

Loose Furnishings

Lateral file cabinet
Rugs for meeting areas

Fixed Equipment

Display and book shelves
Secure storage cabinet
Children's storage space (cubbies/hangers)

Educational Program Specifications – Grade Four

Program Objectives/Goals - The goals of the North Stonington Elementary School’s fourth grade experience is to provide opportunities for the students to achieve their personal best by becoming confident readers and mathematicians, responsible and respectful young students, and lifelong learners in a positive and safe environment. The daily instruction guides the students to transition from becoming students who are learning to read to independent learners who learn by reading. The integrated environment is designed to encourage independence in all aspects of a child’s development with support of the regular and special education faculty.

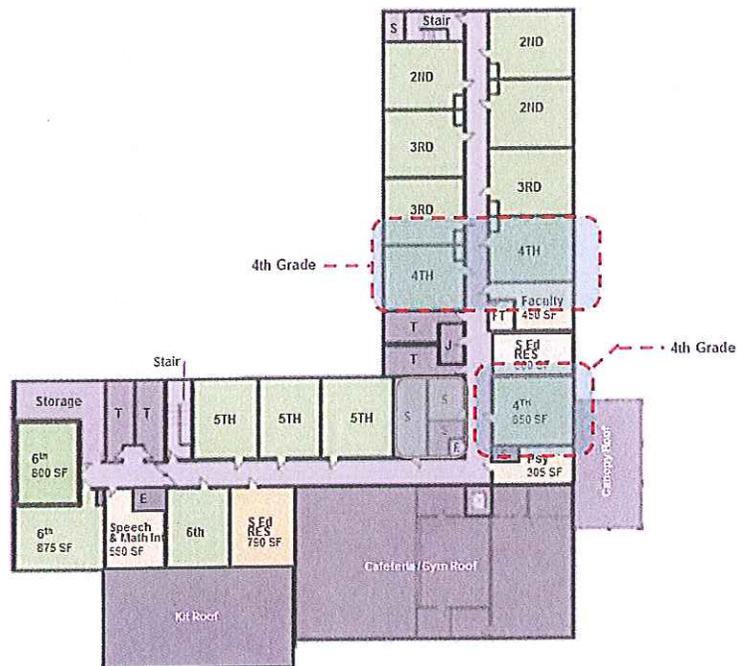
Program Requirements and Activities- Currently North Stonington Elementary School has three full day fourth grade classrooms. The fourth grade program is departmentalized with each classroom dedicated to math, science or social studies. All fourth grade teachers teach literacy in either homogeneous or heterogeneous groupings. Each classroom needs space for center-based and whole group activities which include multi-sensory approach to learning. Technology – document camera, interactive white board with projector, etc.
 SRBI– small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place
 Differentiated Instruction – small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place
 State and Federal mandates (Special Education, Curricular, Data Driven instruction, Standards, etc.)

Space Occupancy: Each of the three classrooms typically houses a class of 17 to 22 students with a highly qualified grade four teacher. Throughout a typical week the speech-language pathologist, reading teacher, special education teacher and the occupational therapist will be involved in the children’s instruction. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching models and age appropriate activities. There is a need for one door for entrance and exit; 2 windows – 1 of which is deemed an emergency exit.

Existing Conditions:

- Current space and storage limitations
- Extremely limited electric outlets, limited ‘drop’ for technology – these drops dictate room arrangement
- Cold water only in utility sink
- Lack of small multiple group instructional areas
- Limited children’s storage space and resource storage space;

CONCEPT DESIGN - The fourth grade classrooms are adjacent to each other and are located on the second floor north wing of the building and are adjacent to the third and fifth grade classrooms that are housed in this wing of the building



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Educational Program Specifications – Grade Four Classrooms

Quantity: 3
Proposed SF: 775 to 825

Space Design Concept: The classroom should be designed for an integrated approach to instruction, multiple furniture arrangements and classroom configurations. The space will function as an office for the teacher.

A physical organization of space organized to promote the various ways children acquire knowledge: visually, auditorally, kinesthetically, independently; cooperatively – thus creating multiple learning scenarios within one space

A physical space should be large enough for various learning tasks and other gatherings such as class:

- o Whole group and small group instruction
 - o An area for library and technology
 - o Wall space low enough for student access and visibility from both the floor and the table area.
 - o A large enough floor space student desks, computer tables and tables that seat 4- 6 students for small group work.
- Color, lighting, furniture that helps to help delineate different learning zones – quiet vs. active; independent vs. small group; working with a variety of technology

Infrastructure that supports and enhances current and future technology (including multiple outlets on walls)

Furniture and equipment specifically designed for fourth grade students

Utility sink in classroom with hot and cold water and water fountain

Technology – document camera, interactive white board with projector, etc.

Counter space for teacher work area and shelves in each classroom storage for instruction supplies

Recess displayed ledges in hallway walls to display student

Storage for student's materials, coats, backpacks, lunch bags

Close proximity to other fourth grade classrooms

Larger grade level restroom facilities close to the fourth grade classrooms

Program Activities

Support activities in a flexible learning environment that accommodates a space multitude of teaching models and instructional strategies.

Loose Furnishings

Student desks and chairs

Rectangular tables with chairs for small group activities

Computer stations

Teacher Desk and Chair

Fixed Equipment

| | |
|---|-----|
| Magnetic white board | yes |
| Tack board & display boards | yes |
| Projection screen/surfaces | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinets | yes |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---------------|----------------|-----------------------------|
| floor material: | TBD | base material: | TBD |
| wall material: | TBD | finish: | TBD |
| ceiling material: | TBD | height: | 8'-0" minimum |
| hardware: | ada compliant | lighting | multi level direct/indirect |
| fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting

HVAC systems including Air Conditioning

Natural and indirect Lighting

Operable windows

Technology

| | |
|--------------------------------|---------------------------------------|
| Power outlet - floor and walls | yes |
| Media projection system | yes |
| Smart board technology | yes |
| Voice, video and data ports | yes |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the schools technology plan |

Educational Program Specifications – Grade Four Storage

Quantity: 3
Proposed SF: 60

Program Storage Needs:

Adequate storage – bookcases, cubbies/lockers drawer units all designed for easy access for students
Built in closet for teachers.
Countertop work space for teacher work space.
Overhead wall cabinets with doors

Space Design Concept

The storage room should be designed for storage for both instructional student materials and teacher resource materials.

Program Activities

Storage of educational materials.

Loose Furnishings

Lateral file cabinet

Fixed Equipment

Display and book shelves
Secure storage cabinet

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – Grade Five

Program Objectives/Goals – The goals of the North Stonington Elementary School’s fifth grade experience is to meet the instructional, academic and behavioral needs of every fifth grader through a tiered, multi-grouped learning environment which will lead to confident readers and mathematicians, responsible and respectful young students, and lifelong learners in a positive and safe environment. The daily instruction guides the students to transition from becoming students who are learning to read to independent learners who learn from reading. The integrated environment is designed to encourage independence in all aspects of a child’s development with support of the regular and special education faculty.

Program Requirements and Activities- Currently North Stonington Elementary School has three full day fifth grade classrooms. The fifth grade program is departmentalized with each classroom dedicated to math, science or social studies. All fifth grade teachers teach literacy in either homogeneous or heterogeneous groupings. There is a need in each classroom for a number of instructional strategies including whole group and small group instruction as well as independent work.

Technology – document camera, interactive white board with projector, etc.

SRBI– small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place

Differentiated Instruction – small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place

State and Federal mandates (Special Education, Curricular, Data Driven instruction, Standards, etc.)

Space Occupancy: Each of the three classrooms typically houses a class of 17 to 22 students with a highly qualified grade five teacher. Throughout a typical week the speech-language pathologist, reading teacher, special education teacher and the occupational therapist will be involved in the children’s instruction. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching models and age appropriate activities. There is a need for one door for entrance and exit; 2 windows – 1 of which is deemed an emergency exit.

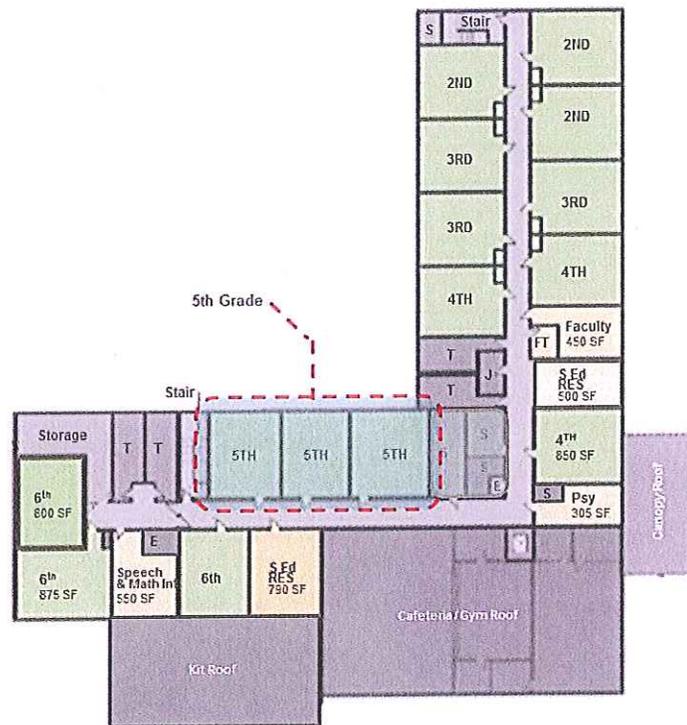
Existing Conditions:

Current space and storage limitations

Extremely limited electric outlets, limited ‘drop’ for technology – these drops dictate room arrangement

Cold water only in utility sink

CONCEPT DESIGN - The fifth grade classrooms are adjacent to each other and are located on the second floor west wing of the building and are adjacent to the sixth grade classrooms that are housed in this wing of the building



North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – Grade Five Storage

Quantity: 3
Proposed SF: 60

Program Storage Needs:

Adequate storage – bookcases, cubbies, drawer units all designed for easy access for 8 and 9 year olds
Coat area for adults
Countertop work space for teacher work space.
Built in cabinetry with ample counter space
Bookshelves accessible for students and higher shelving for teacher materials

Space Design Concept

The storage room should be designed for storage for both instructional student materials and teacher resource materials.

Program Activities

Storage of educational materials.

Loose Furnishings

Lateral file cabinet

Fixed Equipment

Display and book shelves
Secure storage cabinet

Educational Program Specifications – Grade Six

Program Objectives/Goals – The goals of the North Stonington Elementary School’s sixth grade experience is to meet the instructional, academic and behavioral needs of every fifth grader through a tiered, multi-grouped learning environment which will lead to confident readers and mathematicians, responsible and respectful young students, and lifelong learners in a positive and safe environment. The daily instruction guides the students to transition from becoming students who are learning to read to independent learners who learn from reading. The integrated environment is designed to encourage independence in all aspects of a child’s development with support of the regular and special education faculty.

Program Requirements and Activities- Currently North Stonington Elementary School has three sixth grade classrooms. The sixth grade program is departmentalized with each classroom dedicated to math, science or social studies. All sixth grade teachers teach literacy in either homogeneous or heterogeneous groupings. There is a need in each classroom for a number of instructional strategies including whole group and small group instruction as well as independent work.

Technology – document camera, interactive white board with projector, etc.

SRBI– small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place
 Differentiated Instruction – small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place

State and Federal mandates (Special Education, Curricular, Data Driven instruction, Standards, etc.)

Space Occupancy: Each of the three classrooms typically houses a class of 17 to 22 students with a highly qualified grade six teacher. Throughout a typical week the speech-language pathologist, reading teacher, special education teacher and the occupational therapist will be involved in the children’s instruction. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching models and age appropriate activities. There is a need for one door for entrance and exit and windows.

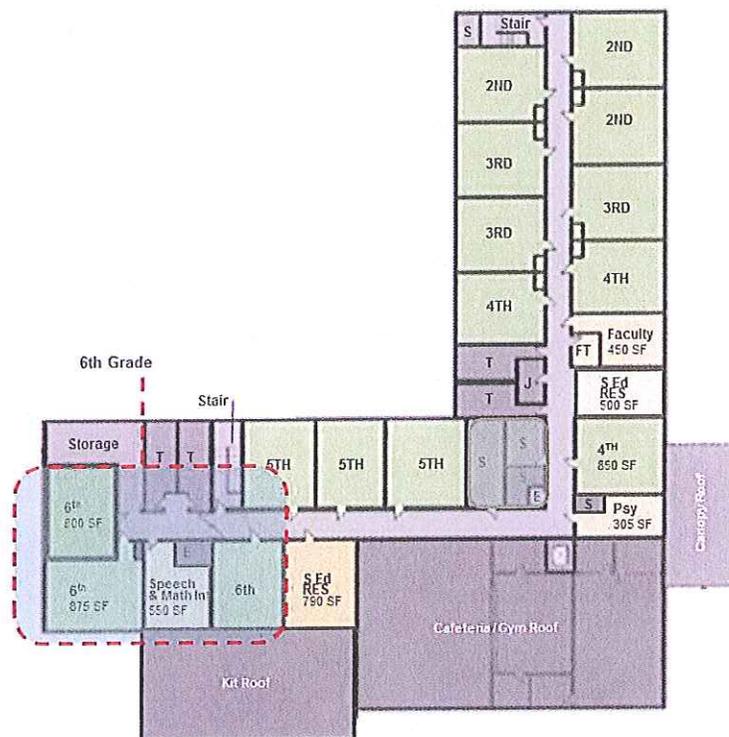
Existing Conditions:

Current space and storage limitations

Extremely limited electric outlets, limited ‘drop’ for technology – these drops dictate room arrangement

Cold water only in utility sink

CONCEPT DESIGN - The sixth grade classrooms are adjacent to each other and are located on the second floor west wing of the building and are adjacent to the fifth grade classrooms that are housed in this wing of the building



North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – Grade Six Classrooms

Quantity: 3

Proposed SF:

Space Design Concept:

The classroom should be designed for an integrated approach to instruction, multiple furniture arrangements and classroom configurations. The space will function as an office for the teacher. A physical organization of space arranged to promote the various ways children acquire knowledge

A physical space should be large enough for various learning tasks and other gatherings such as class:

- o Whole group and small group instruction
- o An area for library and technology
- o A large enough floor space student desks, computer tables and tables that seat 4- 6 students for small group work.

Infrastructure that supports and enhances current and future technology (including multiple outlets on walls)

Technology – document camera, interactive white board with projector, etc.

Furniture and equipment specifically designed for 9 - 10 year olds

Utility sink in classroom with hot and cold water and water fountain

Close proximity to other fifth grade classrooms

Counter space for teacher work area

Recess displayed ledges in hallway walls to display student

Larger grade level restroom facilities

Shelves in each classroom storage for instruction supplies

Storage for student's materials, coats, backpacks, lunch bags

Large magnetized white board instead of chalkboards

Students need independent work spaces which includes furniture for flexible grouping

Climate controlled rooms

Mounted televisions

Lockers instead of hooks (Check hallway for possible location of half lockers.)

Program Activities

Support activities in a flexible learning environment that accommodates a space multitude of teaching models and instructional strategies.

Loose Furnishings

Student desks and chairs

Rectangular tables with chairs for small group activities

Computer stations

Teacher Desk and Chair

Fixed Equipment

Magnetic white board yes

Tack board & display boards yes

Projection screen/surfaces yes

Display and book shelves yes

Tall wardrobe and storage cabinets yes

Fixed cabinets and accessible work surfaces yes

Finishes

| | | | |
|---------------------------------|---------------|----------------|-----------------------------|
| floor material: | TBD | base material: | TBD |
| wall material: | TBD | finish: | TBD |
| ceiling material: | TBD | height: | 8'-0" minimum |
| hardware: | ada compliant | lighting | multi level direct/indirect |
| fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting

HVAC systems including Air Conditioning

Natural and indirect Lighting

Operable windows

Technology

| | | | |
|--------------------------------|-----|-----------------------------|-----------------------------------|
| Power outlet - floor and walls | yes | Portable sound system | yes |
| Media projection system | yes | Technology equipment | yes – per schools technology plan |
| Smart board technology | yes | Voice, video and data ports | yes |
| Security | yes | | |

Educational Program Specifications – Grade Six Storage

Quantity: 3
Proposed SF: 60

Program Storage Needs:

Adequate storage – bookcases, cubbies, drawer units all designed for easy access for 8 and 9 year olds
Coat area for adults
Countertop work space for teacher work space.
Built in cabinetry with ample counter space
Bookshelves accessible for students and higher shelving for teacher materials

Space Design Concept

The storage room should be designed for storage for both instructional student materials and teacher resource materials.

Program Activities

Storage of educational materials.

Loose Furnishings

Lateral file cabinet

Fixed Equipment

Display and book shelves
Secure storage cabinet

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – Special Education

Program Objectives

The special education department serves approximately 8.5% of the students attending North Stonington Elementary School. The early intervention and PPT process identifies those students who have a demonstrated disability that impacts their learning and requires specialized instruction to progress in the curriculum. The staff of teachers, social workers, psychologists, speech and language pathologists, occupational and physical therapists, and paraprofessionals provides a continuum of services in self-contained and mainstream settings. The diversity of educational and behavioral student needs necessitates a variety of spaces to accommodate instructional activities.

Goals

- Establish a program to offer a free, appropriate, public education to all disabled students in the least restrictive environment and to include interaction with non-disabled peers.
- Comply with ADA requirements and OCR regulations.
- Design a program to provide full access to all students.
- Develop a program focused on specific content combined with general education, specialized instruction, study skills, and remediation for students with disabilities.
- Provide functional and hands-on strategies and materials for students with significant cognitive deficits.
- Provide adequate opportunities for the development of skills in technology.

Program Activities to be Accommodated

Special Education consist of Learning Strategy Classes, Special Education Academic and Elective Courses and Special Education Services including Speech and Language Services, Psychological Services, Social Work Services, Adaptive Living Skills and Alternative Day Programs. Other appropriate services as determined by the student's individual education program (IEP) are also included. As each of the above are fairly specialized, so are their respective activities. Activities range from regular classroom instruction to testing, learning fundamental living skills in a residential-like environment, specialized physical education and other specialized activities aimed at the individual

Space Occupancy and Design Criteria

The individual utilization the space includes the student's special education teacher, professionals and aides. The following is a partial list of design elements that should be incorporated into the all spaces to accommodate students with special needs:

- Sensory friendly lighting and acoustics would be beneficial for students with autism, hearing difficulties, and attention deficits.
- Self-contained programs should be placed with ready access to the mainstream classrooms.
- Special education classrooms must provide efficient emergency egress.
- Self-contained settings should be close to exits to allow for easy access to transportation.
- All classrooms should have ample locked storage space for materials and records.
- Self-contained, flexible work stations should support both individual and small group instruction.
- Classroom technology in special education settings should be equal to that offered in mainstream settings.
- All classrooms should be equipped with a telephone line, clock, multiple outlets, whiteboards, bulletin boards, and wiring for computer network capability and internet access.
- Each classroom should have audiovisual capability and the flexibility to accommodate large and small group activities and individual instruction.
- General education classrooms will require commensurate standards for the inclusion of special education students.
- Access to technology should be provided in all spaces.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate delighting.
- Side-lites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional studio function should be provided.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards, Tack boards and projection screens should be provided in each instructional space.

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

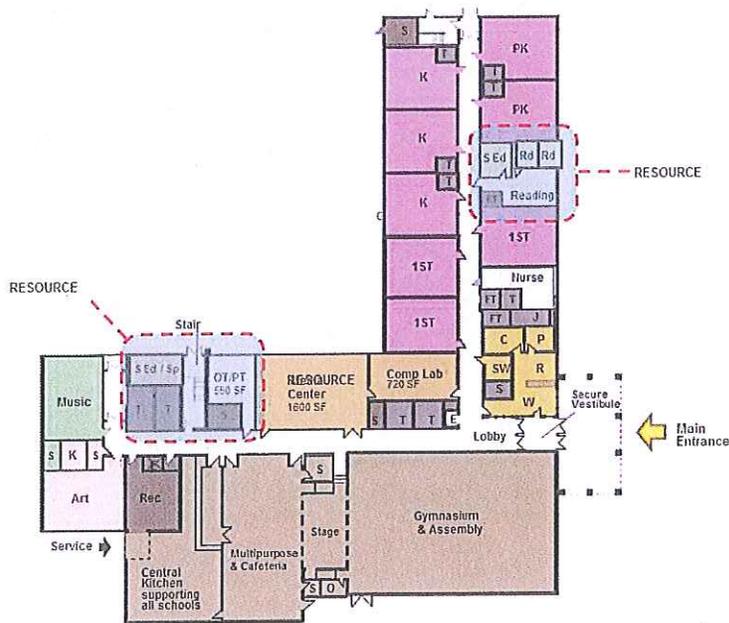
Existing Conditions

The following table identifies the utilization of existing instructional spaces and notes the net classroom area. The capacity of each space. The existing facility lack the appropriate support space for the specific special education programs.

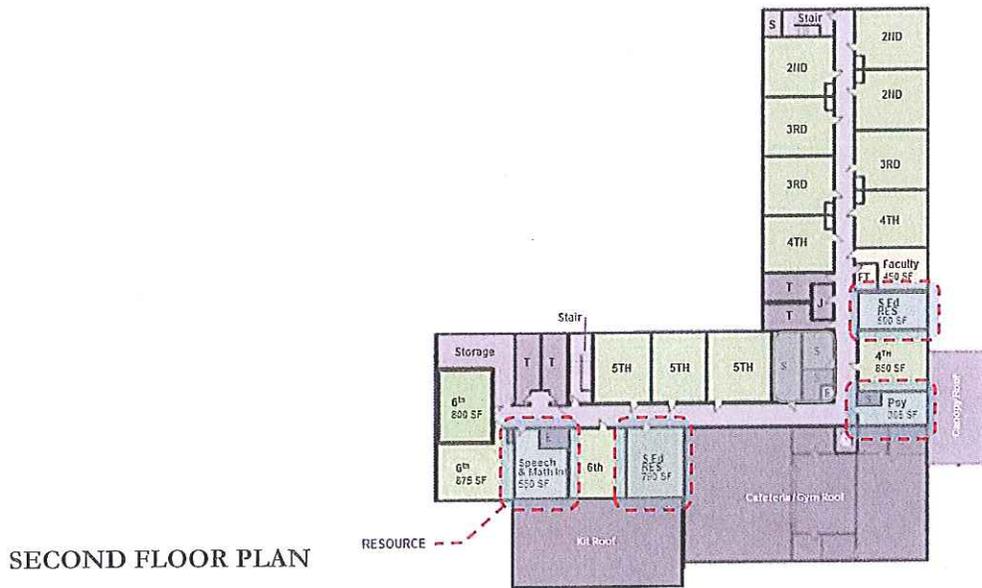
Current Space Limitations:

Lack of instructional classrooms, media storage space, offices, teacher work room and conference rooms. The resource room are inadequate in size

CONCEPT DESIGN - The special education and resource rooms are located on the main and second floors of the building.



FIRST FLOOR PLAN



SECOND FLOOR PLAN

North Stonington Elementary School

Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – Resource Room

Quantity: 2
Proposed SF: 450 to 500 SF Each

Space Design Concept

The small group classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space will function as an instructional classroom for six to eight students, and will be dispersed among the general classrooms.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction.

Loose Furnishings

Computer Workstations with chairs (8 Each)
Mobile computer stations (2 Each)
Work Tables
Teacher Desk and Chair
Lateral file cabinet

Fixed Equipment

| | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes – 2 at 12 linear feet |
| Tack board & display boards | yes – 2 at 4 linear feet |
| Projection screen/surfaces | yes |
| Flag Bracket & Flag | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Smart boards | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

Educational Program Specifications – Social Worker

Quantity: 1
Proposed SF: 150 to 175 SF

Space Design Concept

The space should be designed to accommodate typical private office equipment and a small conference table for up to four individuals.

Program Activities

Individual counseling

Fixed Equipment

| | |
|------------------------|-----|
| Shelves | yes |
| Secure storage cabinet | yes |

Fixed Equipment

| | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes – 2 at 12 linear feet |
| Tack board & display boards | yes – 2 at 4 linear feet |
| Projection screen/surfaces | yes |
| Flag Bracket & Flag | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Smart boards | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – Psychologist

Quantity: 1
Proposed SF: 150 to 175 SF

Space Design Concept

The space should be designed to accommodate typical private office equipment and a small conference table for up to four individuals.

Program Activities

Individual counseling

Fixed Equipment

Shelves yes
Secure storage cabinet yes

Fixed Equipment

Acoustical treatment yes
Marker/white board (Multiple) yes – 2 at 12 linear feet
Tack board & display boards yes – 2 at 4 linear feet
Projection screen/surfaces yes
Flag Bracket & Flag yes
Display and book shelves yes
Tall wardrobe and storage cabinet yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces yes

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

Power outlet - floor and walls yes – as appropriate
Media projection system yes
Smart boards yes
Voice, video and data ports yes – phone / intercom and data
Security yes
Portable sound system yes
Technology equipment yes – per the district's technology plan
Wireless & Hard wired Network yes – per the district's technology plan
Integrated public address system yes

Educational Program Specifications – Speech and Language Pathologist

Quantity: 1
Proposed SF: 125 to 150 SF

Space Design Concept

The space should be designed to accommodate typical private office equipment and a small conference table for up to four individuals.

Program Activities

Small group instruction, therapy activities and testing

Fixed Equipment

| | |
|------------------------|-----|
| Shelves | yes |
| Secure storage cabinet | yes |

Fixed Equipment

| | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes – 1 at 12 linear feet |
| Tack board & display boards | yes – 2 at 4 linear feet |
| Projection screen/surfaces | yes |
| Flag Bracket & Flag | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Smart boards | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – Special Education Conference Room

Quantity: 1
Proposed SF: 250 to 300 SF

Space Design Concept

The space should be designed to accommodate a small conference table for up to twelve individuals.

Program Activities

Small group instruction and meetings

Fixed Equipment

Shelves yes
Secure storage cabinet yes

Fixed Equipment

Acoustical treatment yes
Marker/white board (Multiple) yes – 1 at 8 linear feet
Tack board & display boards yes – 2 at 4 linear feet
Projection screen/surfaces yes
Flag Bracket & Flag yes
Display and book shelves yes
Lower storage cabinet yes – lockable 8 linear feet
Fixed cabinets and accessible work surfaces yes

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Smart boards | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

Educational Program Specifications – Remedial Reading Room

Program Objectives/Goals: The goal of the teachers in the Remedial Reading Room is to assess, diagnose and provide intensive, systematic instruction for students not meeting benchmark in reading.

Program Requirements and Activities- North Stonington Elementary School is fortunate to have 3 highly qualified reading specialists who provide remedial reading instruction specific to the needs of each child. There is a need for a number of instructional strategies including small group instruction as well as independent work.

Technology – computers for teacher and student use

SRBI– small group instruction; 1:1 instruction simultaneous to other independent and small group academic tasks taking place

Differentiated Instruction – small group instruction or 1:1 instruction simultaneously

State and Federal mandates (Special Education, Curricular, Data Driven instruction, Standards, etc.)

Space Occupancy: Each of the three reading specialists have their own instructional areas to work with students in kindergarten through fifth grade. The space should be designed as a flexible learning environment that is able to accommodate a number of teaching models and age appropriate activities. There is a need for one door for entrance and exit; 2 windows – 1 of which is deemed an emergency exit.

Existing Conditions:

Current space and storage limitations

Extremely limited electric outlets, limited 'drop' for technology – these drops dictate room arrangement

Cold water only in utility sink

Movable bookcases separate instructional areas.

Three teacher desks

Educational Program Specifications – Remedial Reading Storage

Quantity: 1
Proposed SF: 125

Program Storage Needs:

Adequate storage – bookcases
Built in cabinetry with ample counter space
Bookshelves for reading materials used school-wide

Space Design Concept

The storage room should be designed for storage for both instructional student materials and teacher resource materials.

Program Activities

Storage of educational materials.

Loose Furnishings

Lateral file cabinet

Fixed Equipment

Display and book shelves
Secure storage cabinet

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – OT/PT Room

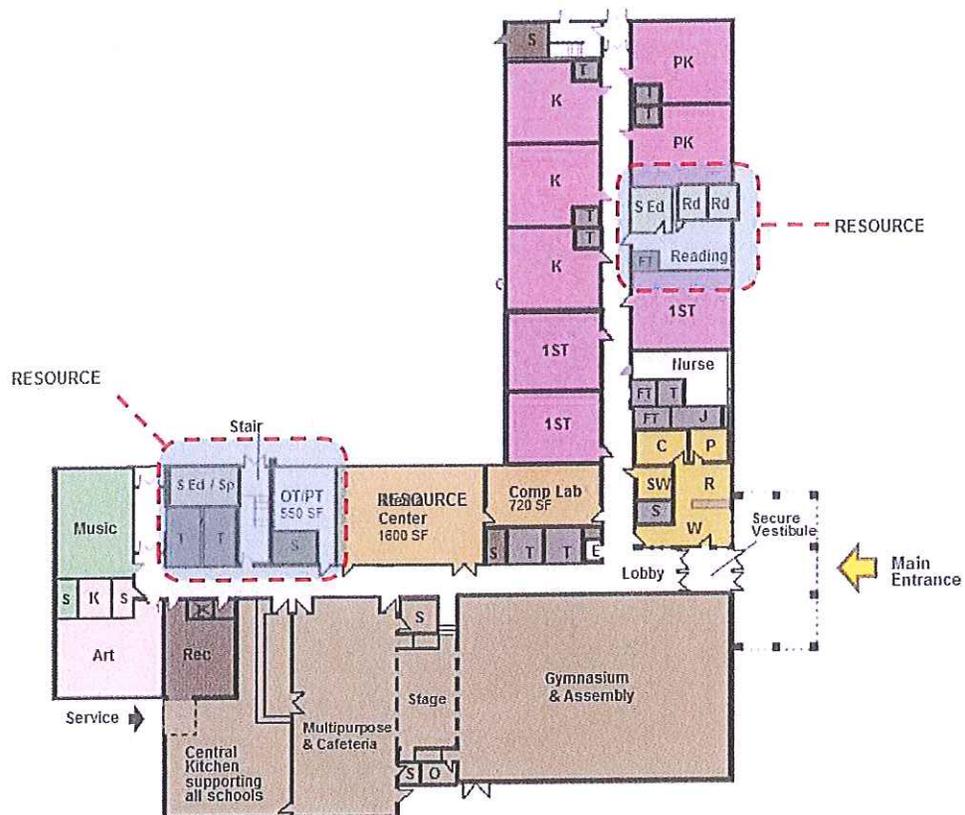
Program Objectives/Goals: The North Stonington OT/PT's mission is to provide a safe, nurturing learning community where all children ages 3-21 feel supported in their development of motor skills, self-help skills, language and social emotional skills. This environment is designed to encourage exploration and independence in all aspects of a child's development.

Program Requirements and Activities: Currently the North Stonington OT/PT room provides services for students that have goals and objectives written for these services on their Individual Education Plans. Students participate in gross motor, fine motor, sensory motor and self-help tasks.

- The motor room needs to have a space for hanging adaptive equipment such as swing with a 6 foot radius.
- Set-up for at least at least one student computer
- A lavatory is needed in the motor room to work on bathroom routines and self-help/dressing activities.
- A sink and counter also need to be available for self-help and food preparation activities.
- A one way window and observation area for parents to observe therapy sessions

Space Occupancy: The OT/PT room typically houses students from the ages of 3-21 throughout the day working on several different needs. The OT and PT both work within the room. Throughout the day there could be motor groups of up to 12 students at a time with a therapist, teacher and Para-professional. The space should be designed as a flexible learning environment for fine motor, visual motor, gross motor, self-help and sensory motor activities.

Existing Conditions: Currently we share the space with the SLP. We have limited storage areas for all of the equipment. We do not currently have a private space to work on self-help activities. Space is limited for gross motor tasks.



Educational Program Specifications – OT/PT Room

Quantity: 1
Proposed SF: 500 – 550 SF

Space Design Concept: The OT/PT Room space requirements will include a large open floor space for movement, storage areas (which may include specially designed storage cabinets) and structured ceiling that can support hanging adaptive equipment. The following is a partial list of design elements that should be incorporated into the OT/PT Room:

- Designated building area on the first floor.
- A larger physical space with a large area for mats and stretching activities.
- A space for hanging adaptive equipment from the ceiling, such as swings, with a 6 foot radius.
- A space for a sensory table (water, sand, rice, etc.)
- Sink and counter tops in the room
- A Handicapped accessible bathroom
- Large floor space for scooter board activities
- Circular tables for small group fine motor/writing activities
- Observation area with one way window so that parents/teachers can observe therapy sessions
- Large storage space for large equipment and adaptive equipment

Program Activities

Support activities in a flexible learning environment that accommodates development of motor skills, self-help skills, language and social emotional skills.

Loose Furnishings

| | |
|---|-----|
| Computer station with wireless capabilities | yes |
| 2 Teacher desks and chairs | yes |
| Lateral/vertical file cabinets | yes |

Fixed Equipment

| | |
|--|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes |
| Tack board & display boards | yes – 1 at 4 linear feet |
| Projection screen/surfaces | no |
| Display and book shelves | yes – 8 linear feet |
| Tall wardrobe and storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surface | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Carpeting and/or Area Rugs | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi-level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | no |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | no |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – OT/PT Storage

Quantity: 1
Proposed SF: 250

Program Storage Needs: (we need a lot of storage)

Storage space for special needs equipment and instructional materials because classroom set-up is continually changing based on needs and program and themes of the week.

Storage for large motor skill development such as tricycles

Storage for large therapy balls, equipment, adaptive equipment, chairs swings, etc

Storage space for games and fine motor equipment and materials

Space Design Concept

The classroom should be designed for a variety of instructional areas with storage for instructional supplies, large equipment and teacher resource materials.

Program Activities

Storage of educational materials.

Loose Furnishings

Lateral file cabinet

Fixed Equipment

Cabinets for large equipment storage

Cabinets for small equipment

Secure storage cabinet

Educational Program Specifications – Special Education Offices

Quantity: 1
Proposed SF: 300 to 450 SF

Space Design Concept

The instructional space should be designed to accommodate eight to ten students, individual work area and a work/planning area.

Program Activities

Small group instruction.

Loose Furnishings

| | |
|-------------------------------|------------------|
| Desks and Chair (10) | |
| Computer stations (2) | |
| Work table and Chair | |
| Lateral/vertical file cabinet | yes – 4 required |

Fixed Equipment

| | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes – 1 at 8 linear feet |
| Tack board & display boards | yes – 1 at 4 linear feet |
| Projection screen/surfaces | yes |
| Display and book shelves | yes – 8 linear feet |
| Tall wardrobe and storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | VCT / VET | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

North Stonington Elementary School Facilities Study & Educational Specifications

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Educational Program Specifications Special Education Storage

Quantity: 1
Proposed SF: 200 to 250 SF Each

Space Design Concept

The storage should be designed to accommodate art supplies, media storage, student projects, and FCS department specific equipment.

Program Activities

Storage of educational materials.

Fixed Equipment

Shelves yes – 12 inch deep, maximum 5 shelves high
Secure storage cabinet yes

Finishes

Floor material: VCT
Base material: Rubber
Wall material: Block / Sheetrock
Wall Finish: Paint
Ceiling material: Acoustical Tile
Ceiling height: 8'-0" minimum
Hardware: ADA compliant - Lockable
Lighting: Standard
Fire extinguisher & suppression: Per code

Special Requirements

HVAC systems exhaust

Technology

Power outlet - walls yes
Security yes – per the districts security plan

Educational Program Specifications - Music

Program Objectives

The Arts have been identified by the U.S. Congress, the College Board, The Partnership for 21st Century Skills, the National Association of Secondary Principals, and the U.S. Department of Education as part of the core curriculum which all students should take as part of their high school program. Music education's mandate in contemporary American education, as stated by the Music Educator's National Conference, is to provide a varied, significant, and cumulative musical experience for every student. The North Stonington Elementary School Music Department offers diverse learning and performing opportunities in vocal and instrumental music. The program provides opportunities for all students to:

- Recognize the role and importance of music in their own lives and in their cultures
- Perform music from a wide variety of cultural and aesthetic perspectives
- Think critically and creatively
- Work collaboratively
- Develop self-discipline through practice and striving for excellence in their musical performances

Program Activities to be accommodated

Students in grades K-5 participate in a variety of classes in music. Classes may include Band, Orchestra, and, Chorus.

Space Occupancy and Design Criteria

The individuals utilizing the space include students and Music teachers. A special education paraprofessional or a teacher's aide may share space for the instruction of individuals with special needs. The following is a partial list of design elements that should be incorporated into the Music Classroom/rehearsal room spaces:

- The rehearsal room configuration should maximize flexibility for small and large groups.
- Access to technology should be provided throughout the individual and group instructional spaces.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate delighting.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional rehearsal spaces should be provided.
- Special consideration should be given for sound transmission to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards, Tack boards and projection screens should be provided in each instructional space.
- Storage should be provided for student instruments.
- Sinks should be provided in a work room and at the instrument repair area.
- Music instrument equipment storage cabinets should be provided in the band rehearsal room.
- Computer workstations and data connections must be provided at each instructional space.
- Video recording equipment.
- Enhanced ventilation requirements.
- Ceiling heights appropriate to Band and Chorus rehearsal rooms should be provided.

Existing Conditions

The following table identifies the utilization of existing music rehearsal and instructional spaces and notes the net classroom area. The capacity of each space. The existing music rooms lack the appropriate support space for instrument and general storage. Appropriate storage cabinets are needed for instrument storage

Current Space Limitations:

Lack of instructional classrooms, instrument and general storage space.

North Stonington Elementary School Facilities Study & Educational Specifications

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CONCEPT DESIGN - The music rehearsal room and music storage rooms are adjacent to each other and are located on the main floor west wing of the building enabling all students to access the program. Located at the end of the west wing the zoning of the space allows for sound and acoustic separation.



Educational Program Specifications – General Music Rehearsal Room

Quantity: 1
Proposed SF: 1,000 to 1,200 SF

Space Design Concept

The General Music Rehearsal Room will house the various vocal classes and vocal ensembles and an acoustically appropriate space with high ceilings large enough to accommodate 30 students. A lockable storage area that will house a piano, risers and records. Access to the auditorium and stage is necessary for final rehearsals.

Program Activities

Support the instruction and practice of various levels of vocal programs

Program Adjacencies

Access to piano storage - separate
Access to portable risers

Loose Furnishings

Music stands w/ carts
Program equipment
Storage for music folders
Chairs
Mobile computer stations
Teacher Desk and Chair
Lateral file cabinet

Fixed Equipment

| | |
|---|------------------------|
| Acoustical treatment | yes |
| Marker/white board | yes – with music staff |
| Tack board & display boards | yes |
| Projection screen/surfaces | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinet | yes |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|-----------------------------|---------|----------------|
| floor material: | Carpet | | |
| base material: | Rubber | | |
| wall material: | Block / Gyp | finish: | Paint |
| ceiling material: | Acoustical Tile | height: | 18'-0" minimum |
| hardware: | ada compliant | | |
| lighting | multi-level direct/indirect | | |
| fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting
HVAC systems including Air Conditioning
Natural and indirect Lighting
Operable windows
Acoustical Controls and Sound Transmission

Technology

| | |
|--------------------------------|---------------------------------------|
| Power outlet - floor and walls | yes |
| Media projection system | yes |
| Smart boards | yes |
| Voice, video and data ports | yes |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the schools technology plan |

North Stonington Elementary School Facilities Study & Educational Specifications

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Educational Program Specifications - Art

Program Objectives

The Arts have been identified by the U.S. Congress, the College Board, The Partnership for 21st Century Skills, the National Association of Secondary Principals, and the U.S. Department of Education as part of the core curriculum which all students should take as part of their school program. The North Stonington Elementary School Art program offers diverse learning opportunities in art. Courses emphasize problem solving, visual literacy and higher order thinking skills and offer all students the opportunity to:

Recognize the role and importance of art and artists in society, culture, and history
Communicate visually
Express their own feelings and ideas

Opportunities exist for students to display their artwork within the school, district, and the greater community. The arts play a profound role in learning. Experiences in the arts are basic to learning. The arts curriculum offers one way to formulate questions, construct knowledge, express meaning, and solve problems. The arts enhance language facility and the development of expressive skills. Self-esteem, social awareness, critical thinking, sensitivity to others, sensitivity to one's environment, and problem solving are all enhanced with the dynamics of arts infused approach.

Program Activities to be Accommodated

Art classrooms are needed to accommodate all art courses. A kiln room is needed for the clay component. Display cases for student work should be created throughout the school as well as an art exhibition space at the main entrance of the school

Space Occupancy and Design Criteria

The individual utilization the space include the students and Art department teachers. A special education paraprofessional, or a teacher's aide may share space for the instruction of individuals within the regular art studio. The following is a partial list of design elements that should be incorporated into the studio spaces:

- The art classroom configuration should maximize flexibility and provide lecture as well as studio space.
- Access to technology should be provided through the studio.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate daylighting.
- Sidelites must be provided adjacent to all classroom doors.
- Cabinets and casework appropriate to the instructional studio function should be provided.
- Special consideration should be given for sound transmission at operable and standard walls to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards, Tack boards and projection screens should be provided in each instructional space.
- Storage should be provided for ongoing student projects within the studio and in storage rooms.
- Large deep sinks with clay-traps.
- Adjustable multi directional lighting.
- Dedicated Kiln Room
- Enhanced ventilation requirements.
- Student display shelving in all studios.

Existing Conditions

The following table identifies the utilization of existing instructional spaces and notes the net classroom area.

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility to meet the program objectives established for North Stonington Elementary School.

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

CONCEPT DESIGN - The art room, kiln room and storage rooms are adjacent to each other and are located on the main floor west wing of the building enabling all students to access the program. The southern and west orientation provides natural light to the program space.



North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications - Art Classroom

Quantity: 1
Proposed SF: 1,200 to 1,250 SF Each

Space Design Concept

The classroom should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations. The space will function as an office for the teacher.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction. Display of student work and appropriate storage for on-going projects is required in each studio.

Loose Furnishings

Modular rectangular art tables with chairs
Circular tables for small groups with chairs
Mobile computer stations
Teacher Desk and Chair
Lateral file cabinet

| | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes – 2 at 12 linear feet |
| Tack board & display boards | yes – minimum 20 linear feet |
| Projection screen/surfaces | yes |
| Display and book shelves | yes – 12 linear feet |
| Tall wardrobe and storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---|---|---------|-------|
| Floor material: | Polished Concrete | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Open ceiling | | |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |
| Floor drains with clay traps and access panels. | | | |

Special Requirements

Specialty lighting
Deep sinks with clay traps
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

Educational Program Specifications - Art Kiln Room

Quantity: 1
Proposed SF: 100 to 150 SF Each

Space Design Concept

The storage should be designed to accommodate storage, of art department specific equipment and the Kiln.

Program Activities

Kiln and storage of educational materials.

Fixed Equipment

Shelves yes – 12 inch deep, maximum 5 shelves high
Secure storage cabinet yes

Finishes

Floor material: Polished Concrete
Base material: Rubber
Wall material: Block / Sheetrock
Wall Finish: Paint
Ceiling material: Acoustical Tile
Ceiling height: 8'-0" minimum
Hardware: ADA compliant - Lockable
Lighting: Standard
Fire extinguisher & suppression Per code

Special Requirements

HVAC systems exhaust
Kiln with dedicated exhaust

Technology

Power outlet - walls yes
Security yes – per the districts security plan

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications - Art Storage

Quantity: 1
Proposed SF: 150 to 250 SF Each

Space Design Concept

The storage should be designed to accommodate art supplies, media storage, student projects, drying racks and art department specific equipment.

Program Activities

Storage of educational materials.

Fixed Equipment

Shelves yes – 12 inch deep, maximum 5 shelves high
Secure storage cabinet yes

Finishes

Floor material: Polished Concrete
Base material: Rubber
Wall material: Block / Sheetrock
Wall Finish: Paint
Ceiling material: Acoustical Tile
Ceiling height: 8'-0" minimum
Hardware: ADA compliant - Lockable
Lighting: Standard
Fire extinguisher & suppression: Per code

Special Requirements

HVAC systems exhaust

Technology

Power outlet - walls yes
Security yes – per the districts security plan

Educational Program Specifications – Technology Education

Program Objectives

The Technology/Computer Education Department provides a link from the traditional areas of study to the technologies of the future. The department goal is to expose students to a wide array of technological experiences.

Program Activities to be Accommodated

The Technology/Computer Education Coursework focuses on the development and application of technology and the effect that technology has on people, society and the environment. Course strands include Digital Communications, Keyboarding Skills, Presentations and word processing.

Space Occupancy

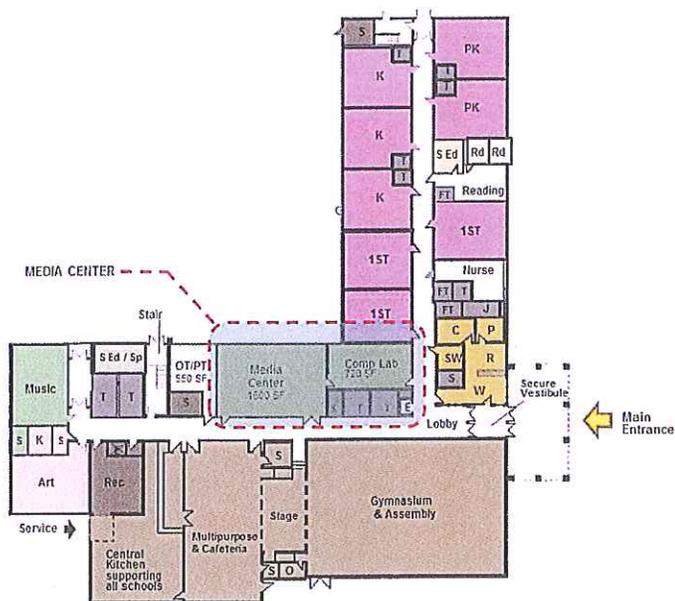
The individual utilization the space include the students and teachers. The following is a partial list of design elements that should be incorporated into the technology education spaces:

- The Lab configuration should maximize flexibility and provide lecture as well as practical applications.
- Access to technology should be provided through the Labs
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize controlled natural light.
- Cabinets and casework appropriate to the instructional function should be provided.
- Special consideration should be given for sound transmission at operable and standard walls to minimize sound infiltration into the adjacent space.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards, Tack boards and projection screens should be provided in each instructional space.
- Storage should be provided for ongoing student projects within the lab and in storage rooms.
- Enhanced ventilation requirements.

Existing Conditions

The existing labs although adequate in size, lack the appropriate support space and equipment, storage.

CONCEPT DESIGN - The computer room is adjacent to the media center and is located on the main floor west wing of the building enabling all students to access the program.



North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – Technology Computer Lab

Quantity: 1
Proposed SF: 700 to 750 SF Each

Space Design Concept

The lab should be designed for an integrated approach to technology and multiple furniture arrangements and room configurations.

Program Activities

Support a number of teaching styles, including lectures, small group and individual instruction. The lab will be equipped with computer work stations and planning areas for all students. Large format printing, storage of printing and electronic supplies and presentations of student work need to be accommodated.

Loose Furnishings

Workstations with side tables for large format documents
Circular tables for small groups with chairs
Mobile computer stations
Teacher Desk and Chair
Lateral file cabinet
Electronic equipment such as printers, scanners and copiers

Fixed Furnishings

| | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes – 2 at 12 linear feet |
| Tack board & display boards | yes – minimum 20 linear feet |
| Projection screen/surfaces | yes |
| Display and book shelves | yes – 12 linear feet |
| Tall wardrobe and storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|-------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Open ceiling | | |
| Hardware: | ADA compliant | | |
| Lighting | Multi-level direct/indirect and task lighting | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting
Dedicated electrical circuits with a UPS back up system
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

| | |
|----------------------------------|---|
| Power outlet - floor and walls | yes – as appropriate to provide multiple workstation configurations |
| Media projection system | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – Media Center

Program Objectives

The mission of the library is to ensure that students develop both an enjoyment of reading and the information gathering skills that enable them to be independent, effective, responsible, critical, and creative users of ideas and information. Data should be available in a variety of formats, including print, non-print, and electronic.

The media center also coordinates the use and maintenance of instructional equipment. The library will consist of student seating areas with tables and study carrels, technology areas for student access to computers and AV equipment, classroom areas for instruction, shelving and storage for materials, a circulation area, small group meeting area, production room, library staff offices and workroom, storage room for equipment, and a professional library area for teachers.

The media center will consist of a staff and student production area, offices for the media director and secretary, secured storage areas, and areas for copying and laminating.

Program Activities to be Accommodated

The library will house individual and class research using/viewing print, non-print, and computer resources; student instruction and activities in classroom areas; student pleasure reading; circulation of materials; student copying and compilation of research; library staff processing of materials; storage of materials and equipment; and professional reading and research for teachers.

Space Occupancy and Design Criteria

The library will have seating for up to 60 students, including space for a minimum of 20 computers, a small group meeting area, offices for the library media specialists; library assistants; and professional library to seat a minimum of 12 at tables and carrels. The media center will provide area for the Media director, secretary, and assistants; teachers, staff, and students involved in media production.

The following is a partial list of design elements that should be incorporated into the spaces:

- The Media Center configuration should maximize flexibility and provide lecture as well as general seating and computer workstation space.
- Access to technology should be provided through the Media Center.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in designated areas.
- Ceiling height and windows should maximize natural light and accommodate day-lighting.
- Sidelites must be provided adjacent to all doors.
- Cabinets and casework appropriate to the media center functions should be provided.
- Special consideration should be given for sound transmission.
- Speaker systems should be incorporated into designated instructional areas.
- Whiteboards, Tack boards and projection screens will be provided at each designated instructional areas
- Dedicated storage should be provided.
- Adjustable multi directional lighting.
- Enhanced ventilation requirements.
- The library workroom should be located near the circulation desk-and should have a sink. Maximum sight lines and visibility throughout the library space for supervision are needed.

Existing Conditions

The following table identifies the utilization of the existing media center spaces. The existing media center configuration does not provide clear sight-lines and lacks the appropriate support space.

Current Space Limitations:

The library / Media Center lack amenities in the support spaces.

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Proposed Program and Concept Plan

The educational program space outlined below is based on renovating the existing facility to meet the program objectives established for North Stonington Elementary School.

Program Requirements

Student seating areas with tables and study carrels, technology areas for student access to computers and AV equipment, classroom areas for instruction, shelving and storage for materials, a circulation area, small group meeting area, production room, library staff offices and workroom, storage room for equipment, and a professional library area for teachers.

Design Concept:

The Media Center, storage, office and workrooms are located on the main level. A single level space with high ceiling, abundant natural light and easy access to the student and the community.



North Stonington Elementary School Facilities Study & Educational Specifications

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Educational Program Specifications - Media Center

Quantity: 1
Proposed SF: 1,750 to 2,250 SF

Space Design Concept

The media center should be designed for an integrated approach to technology and multiple furniture arrangements and classroom configurations.

Program Activities

The library will have seating for up to 60 students, including space for a minimum of 20 computers, a small group meeting area, offices for the library media specialists; library assistants; and professional library to seat a minimum of 12 at tables and carrels.

Loose Furnishings

Tables with chairs
Circular tables for small groups with chairs
Mobile computer stations
Carrels
Shelving

| | |
|-------------------------------|-----|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes |
| Tack board & display boards | yes |
| Projection screen/surfaces | yes |
| Display and book shelves | yes |

Finishes

| | | | |
|---------------------------------|---|---------|-------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Open ceiling | | |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

Educational Program Specifications - Media Center Work Room and Office

Quantity: 1
Proposed SF: 150 to 250 SF

Space Design Concept

The office/workroom should be designed to accommodate the media specialists desk and the work/planning area, copier, limited equipment and secure media storage.

Program Activities

Media Directors office including the planning and preparation area.

Loose Furnishings

| | |
|-------------------------------|------------------|
| Desks and Chair | |
| Computer stations | |
| Work table and Chair | |
| Lateral/vertical file cabinet | yes – 4 required |

Fixed Equipment

| | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes – 1 at 8 linear feet |
| Tack board & display boards | yes – 1 at 4 linear feet |
| Projection screen/surfaces | yes |
| Display and book shelves | yes – 8 linear feet |
| Tall wardrobe and storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications - Media Center Storage

Quantity: 1
Proposed SF: 200 to 250 SF Each

Space Design Concept

The storage should be designed to accommodate supplies, media storage and department specific equipment.

Program Activities

Storage of educational materials.

Fixed Equipment

Shelves yes – 12 inch deep, maximum 5 shelves high
Secure storage cabinet yes

Finishes

Floor material: VCT
Base material: Rubber
Wall material: Block / Sheetrock
Wall Finish: Paint
Ceiling material: Acoustical Tile
Ceiling height: 8'-0" minimum
Hardware: ADA compliant - Lockable
Lighting: Standard
Fire extinguisher & suppression: Per code

Special Requirements

HVAC systems exhaust

Technology

Power outlet - walls yes
Security yes – per the districts security plan

North Stonington Elementary School Facilities Study & Educational Specifications

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Educational Program Specifications – Multi-Purpose Room / Assembly

Quantity: 1
Proposed SF: 3,500 – 4,000

Space Design Concept:

The **Multi-purpose Room** should be designed for appropriate set up of the cafeteria tables for lunch, storage of the cafeteria tables when not in use, for an integrated approach to technology, and a physical space large enough for various learning tasks and gatherings.

- Infrastructure that supports and enhances current and future technology (including multiple outlets on walls)
- Furniture and equipment designed for multi-aged students and adults

Stage should be designed for presentations both for school and community use. The sound and technology systems must support such activities as Drama Club presentations, Band and Chorus Concerts, banquets, and Town Meetings.

Program Activities

- The North Stonington Elementary School Multi-Purpose serves a multitude of functions for the school and entire North Stonington community including the cafeteria and assemblies.

Loose Furnishings

20 cafeteria tables with attached seating
2 rectangular tables

Fixed Equipment

| | |
|-------------------------------|--------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes |
| Tack board & display boards | yes – 2 at 6 linear feet |
| Projection screen/surfaces | yes |
| Sound system | yes – |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | VCT / VET | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block/Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

Educational Program Specifications – Cafeteria / Multi-Purpose

Quantity: 1
Proposed SF: 2,500 to 3,050 SF

Space Design Concept

A multi-functional space that is used to serve students lunch and provides options for large and small assemblies.

Program Activities

Student dining area

Loose Furnishings

Tables with chairs
Raised platform
Vending machines

| | |
|-------------------------------|-----|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes |
| Tack board & display boards | yes |
| Projection screen/surfaces | yes |
| Display and book shelves | no |

Finishes

| | | | |
|---------------------------------|---|---------|-------|
| Floor material: | VCT / VET | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical and Open ceiling | | |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting
Drinking Fountains
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Power requirements for portable hot and cold food serving units

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

Educational Program Specifications – Kitchen & Servery

Quantity: 1
Proposed SF: 1,500 to 2,000 SF

Space Design Concept

An efficient commercial kitchen with appropriate support spaces.

Program Activities

Preparation and serving meals, primarily lunch.

Loose Furnishings

Food preparation and serving utensils equipment
Tables
Portable carts
Portable serving stations
Portable hot and cold food storage units

| | |
|-------------------------------|---|
| Acoustical treatment | Acoustical Tile |
| Marker/white board (Multiple) | yes – Limited to the offices and planning areas |
| Tack board & display boards | yes |
| Projection screen/surfaces | no |
| Display and book shelves | no |

Finishes

| | | | |
|---------------------------------|---|---------|-------|
| Floor material: | Quarry Tile | | |
| Base material: | Tile | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical and Open ceiling | | |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting
Drinking Fountains
Hand Sinks
Food preparation equipment
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Power requirements for portable hot and cold food serving units

Technology

| | |
|----------------------------------|--|
| Power outlet - walls | yes – as appropriate |
| Media projection system | no |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

Educational Program Specifications – Kitchen Office

Quantity: 1
Proposed SF: 150 to 250 SF

Space Design Concept

The offices should accommodate the food services director and manager with conference space.

Program Activities

Planning and preparation room.

Loose Furnishings

| | |
|-------------------------------|-----|
| Desks and Chair | |
| Computer station | |
| Work table and Chair | |
| Lateral/vertical file cabinet | yes |

Fixed Equipment

| | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes – 1 at 8 linear feet |
| Tack board & display boards | yes – 1 at 4 linear feet |
| Projection screen/surfaces | yes |
| Display and book shelves | yes – 8 linear feet |
| Tall wardrobe and storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

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Educational Program Specifications – Kitchen Storage

Quantity: 3
Proposed SF: 150 to 350 SF Depending on the specific use.

Space Design Concept

The storage should be designed to accommodate supplies, food prep and service related products.

Program Activities

Storage of food service related materials.

Fixed Equipment

Shelves yes – 12 inch deep, maximum 5 shelves high
Secure storage cabinet yes

Finishes

Floor material: VCT
Base material: Rubber
Wall material: Block / Sheetrock
Wall Finish: Paint
Ceiling material: Acoustical Tile
Ceiling height: 8'-0" minimum
Hardware: ADA compliant - Lockable
Lighting: Standard
Fire extinguisher & suppression Per code

Special Requirements

HVAC systems exhaust

Technology

Power outlet - walls yes
Security yes – per the districts security plan

Educational Program Specifications – Physical Education & Fitness

Program Objectives

The physical education/health programs goal is to facilitate all students so that they can develop their physical capacities and capabilities in order to help them understand their strengths and weaknesses. The athletics program is designed to give students an opportunity to develop and demonstrate strengths in activities such as basketball, soccer, etc.

Program Activities to be Accommodated

The facilities will accommodate physical education and athletic activities for the entire student population. The facilities required to achieve the department's goal for physical education/health and athletics, are identified below.

- Main gymnasium (4 Teaching Stations)
- Storage for all equipment
- Separate boys' and girls' locker rooms
- Athletic Directors Office
- Office, Lockers, Toilet and shower facilities for the PE Staff
- Outdoor Equipment Storage

Space Occupancy and Design Criteria

The individual's utilization the space include the students and teacher, volunteers and the community. The following is a partial list of design elements that should be incorporated into the design of the PE spaces:

- The Gymnasiums should maximize flexibility and provide adequate seating for state wide competitions.
- Access to technology should be provided through the instructional and office areas.
- Digital projection systems should be utilized for visual display.
- Interactive whiteboards should be installed in all instructional areas.
- Ceiling height and windows should maximize natural light and accommodate day-lighting.
- Sidelites must be provided adjacent to all instructional classroom doors.
- Cabinets and casework must be provided in all instructional classrooms.
- Speaker systems should be incorporated into all instructional spaces.
- Whiteboards, Tack boards and projection screens should be provided in each instructional space.
- Adjustable multi directional lighting.
- Video recording infrastructure must be installed in the gymnasiums for the live recording of events.
- Enhanced ventilation requirements.
- Masonry, ceramic tile and similar finish products should be used in all locker/toilet rooms.
- Natural light should be provided in the gymnasiums.
- Provisions for the storage of equipment for all sports activities.
- All facilities should meet Title IX requirements.

Existing Conditions: The following table identifies the utilization of existing instructional program spaces. The most significant program deficiency in the Physical Education Department is the shared use of the space as an auditorium and cafeteria.

Current Space Limitations:

Lack of instructional space for health, equipment storage space, inadequate office.
Shared use of space with cafeteria and assembly functions

Proposed Program and Concept Plan

The program developed for the Physical Education program is based on meeting the curriculum need of North Stonington Elementary School. Right sizing the program areas, addressing ADA/OCR; and resolving the natural light environmental issues have been the programming priorities. In developing the plan a key component was the introduction of a new gymnasium space that addressed all the safety concerns identified under the existing conditions report.

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Design Concept: The existing gymnasium will be renovated to meet code and a dedicated physical education function. The space will also be available for school wide assemblies.



Educational Program Specifications – Gymnasium

Quantity: 1
Proposed SF: 6,500 to 8,500 SF

Space Design Concept

The Main Gymnasium should be designed to accommodate a full size court for basketball and seating for 150 Spectators. The Gyms will be designed with an integrated approach to technology, and will function as a physical education instructional area for 2 classes.

Program Activities

Primarily PE activities and should support a number of teaching styles, including lectures, small group and individual instruction. Appropriate storage for equipment for the gym.

Loose Furnishings

Physical Ed Equipment

Fixed Equipment

| | |
|---|----------------------------------|
| Acoustical treatment | yes – Acoustical Deck and panels |
| Marker/white board (Multiple) | no |
| Tack board & display boards | no |
| Projection screen/surfaces | yes – Retractable |
| Display and book shelves | no |
| Tall wardrobe and storage cabinet | no |
| Fixed cabinets and accessible work surfaces | no |

Finishes

| | | | |
|---------------------------------|--|---------|-------|
| Floor material: | Wood resilient sports flooring | | |
| Base material: | Wood | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Wall material: | Wall padding | | |
| Ceiling material: | Open ceiling painted with acoustical deck | | |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Maximize natural light – Avoid potential for glare | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting
Basketball backboards
HVAC systems including Air Conditioning
Mechanically operated divider curtains or rigid folding partitions
Climbing wall
Protection for all equipment
Provision for floor scansion for volleyball and other sports.
Access to power and data in the floor
Retractable bleachers

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

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Educational Program Specifications – PE Office

Quantity: 1
Proposed SF: 100 to 150 SF Each

Space Design Concept

The offices should accommodate desks and chairs for coach and teacher volunteers.

Program Activities

Planning and preparation room for coaches.

Loose Furnishings

| | |
|-------------------------------|-----|
| Desks and Chair | |
| Computer station | |
| Work table and Chair | |
| Lateral/vertical file cabinet | yes |

Fixed Equipment

| | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes – 1 at 8 linear feet |
| Tack board & display boards | yes – 1 at 4 linear feet |
| Projection screen/surfaces | yes |
| Display and book shelves | yes – 8 linear feet |
| Tall wardrobe and storage cabinet | yes – lockable 6 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Polished Concrete | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Standard | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | no |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | no |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

Educational Program Specifications – PE Storage

Quantity: 2
Proposed SF: 350 to 500 SF

Space Design Concept

The storage should be designed to accommodate department specific equipment separated as indoor and outdoor equipment.

Program Activities

Storage of PE Equipment.

Fixed Equipment

Shelves yes – 12 inch deep

Finishes

| | |
|---------------------------------|--------------------------|
| Floor material: | VCT |
| Base material: | Rubber |
| Wall material: | Block / Sheetrock |
| Wall Finish: | Paint |
| Ceiling material: | Acoustical Tile |
| Ceiling height: | 8'-0" minimum |
| Hardware: | ADA compliant - Lockable |
| Lighting: | Standard |
| Fire extinguisher & suppression | Per code |

Special Requirements

HVAC systems exhaust

Technology

| | |
|----------------------|---------------------------------------|
| Power outlet - walls | yes |
| Security | yes – per the districts security plan |

North Stonington Elementary School Facilities Study & Educational Specifications

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Educational Program Specifications – Administrative Offices

Program Objectives/Goals: The administrative offices will be designed to support the efficient operation of North Stonington Elementary School. The administrative suite has space for the waiting and reception area, office area for two support/secretarial staff and the office of the school principal. The administrative offices should be located at the main school entrance and provide control for all visitors and students entering and leaving the school.

Program Requirements and Activities: The administrative facilities will accommodate offices, and other administrative support spaces including the following:

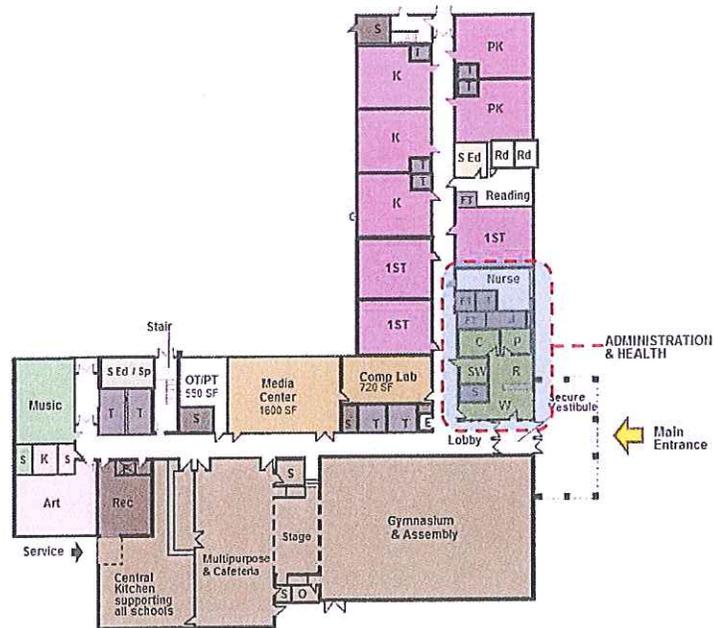
- Offices
- Conference Room
- Work Room
- General & student record storage
- Secretarial stations
- Waiting Area
- Storage Space/ Closet
- Handicapped Accessible Toilet

Space Occupancy: The administrative office space is utilized by the administration, faculty and staff, students, parents, volunteers and the community.

Existing Conditions - The existing office space is not located at the direct entrance of the building and does pose a security risk. Visitors entering the building must walk a distance to check in at the office. There is a small waiting area with four chairs and the staff mailboxes in the same location. The school's secretary is separated from the waiting area by a tall counter. Student records are stored in the main room. Off of the secretaries space is a conference room, a small work room with an office Para-professional's desk, a copy machine, a refrigerator and a microwave and finally a small office for the principal. There is no restroom in the area.

Space Design Concept: The administrative office area provides space for the school's communication, organization and administrative functions.

- The main office entrance will lead all visitors to pass through the office for improved security
- Built-in, fireproof cabinetry for student records and school documents
- Principal office with built-in cabinets and meeting space
- Ceiling height and windows should maximize natural light and accommodate day-lighting
- Side-lites must be provided adjacent to all doors
- Cabinets and secretarial workstations
- Waiting areas should be provided.
- Individualized temperature control for all spaces.
- Communication and video security control to all spaces and egress points.
- Restroom for faculty, staff and visitors
- Exit Door



Educational Program Specifications – Principal’s Office

Quantity: 1
Proposed SF: 200 to 250 SF

Space Design Concept: The office should be designed to allow visibility of central work area and include adequate space for a small conference/meeting area. Built in cabinetry and desk will support space organization

Program Activities - Administrative office of the principal and small meeting groups

Loose Furnishings

| | |
|-----------------------------|-----------------------------|
| Conference table and chairs | Yes |
| Computer station | Yes – Wireless capabilities |
| Desk and Chair | Yes |
| Lateral file cabinet | Yes |
| Book Shelves | Yes |

Fixed Equipment

| | |
|---|-----------------------|
| Acoustical treatment | yes |
| Marker/white board | no |
| Tack board & display boards | yes – 6 linear feet |
| Projection screen/surfaces | no |
| Display and book shelves | no – Loose Furnishing |
| Tall wardrobe and storage cabinet | yes |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|-------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical | | |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Natural and indirect/direct Lighting
Operable windows

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | no |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | no |
| Technology equipment | yes – per the district’s technology plan |
| Wireless & Hard wired Network | yes – per the district’s technology plan |
| Integrated public address system | yes |
| Television hook-up | yes |

North Stonington Elementary School Facilities Study & Educational Specifications

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Educational Program Specifications –Main Office/Conference Room

Quantity: 1
Proposed SF: 250 to 400 SF

Space Design Concept

The conference rooms should seat 10 to 16 individuals in a comfortable setting. The large conference room should include voice, video, and data and digital projection.

Program Activities

Meeting space and small group presentation

Loose Furnishings

Conference table for small groups with chairs 14 to 16 in the large conference room.

Fixed Equipment

| | |
|---|------------------------------|
| Acoustical treatment | yes |
| Marker/white board | yes – 1 at 8 linear feet |
| Tack board & display boards | yes – 2 at 4 linear feet |
| Projection screen/surfaces | yes |
| Flag Bracket & Flag | yes |
| Display and book shelves | yes |
| Storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting Multi-Level
HVAC systems including Air Conditioning

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | yes |
| Interactive Whiteboard | yes |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | yes |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

Educational Program Specifications – Main Office Waiting Area

Quantity: 1
Proposed SF: 50 to 100 SF Each

Space Design Concept

There will be one designated waiting area for the Main Office. It will be located adjacent to the reception/secretarial area with seating for 6 to 8.

Program Activities

Waiting area for students and visitors

Loose Furnishings

Comfortable seating
Small tables

Fixed Equipment

| | |
|---|--------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | no |
| Tack board & display boards | yes – 1 at 4 linear feet |
| Projection screen/surfaces | no |
| Flag Bracket & Flag | no |
| Display and book shelves | no |
| Tall wardrobe and storage cabinet | no |
| Fixed cabinets and accessible work surfaces | no |

Finishes

| | | | |
|---------------------------------|------------------------|---------|---------------|
| Floor material: | Carpet | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Standard | | |
| Windows | Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Display stand for school related information.

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | no |
| Smart boards | no |
| Voice, video and data ports | yes – data ports |
| Security | yes |
| Portable sound system | no |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

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Educational Program Specifications – Secretarial Area

Quantity: 1
Proposed SF: 500 to 600 SF (Room for two secretaries)

Space Design Concept

The secretarial stations will be designed to facilitate efficient operations and planning functions of the school. The space should be open and inviting to all visitors, yet also provide privacy of records. Secure casework must be provided for storage of records and supplies. There should be a counter that designates the waiting area from the secretarial area.

Program Activities

Support administrative staff and school operations.

Loose Furnishings

Computer Workstations with chair
Work Tables
Desk and Chair
Lateral file cabinet
Visitor Chairs

Fixed Equipment

| | |
|---|--------------------------|
| Acoustical treatment | yes |
| Marker/white board | yes |
| Tack board & display boards | yes – 1 at 4 linear feet |
| Projection screen/surfaces | no |
| Flag Bracket & Flag | yes |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinet | no |
| Fixed cabinets and accessible work surfaces | yes – lockable |
| Staff Mailboxes | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Tile | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting Task lighting
HVAC systems including Air Conditioning
Natural Lighting
Operable windows

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | no |
| Smart boards | no |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | no |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |
| Television hook-up | yes |

Educational Program Specifications – Administrative Office Storage

Quantity: 1
Proposed SF: 100 to 250 SF Each

Space Design Concept

Storage of records and main office supplies in a secure fire rated storage cabinet

Program Activities

Student record storage

Loose Furnishings

Work Table
File cabinets

Fixed Equipment

| | |
|---|-----|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | no |
| Tack board & display boards | no |
| Projection screen/surfaces | no |
| Flag Bracket & Flag | no |
| Display and book shelves | no |
| Tall wardrobe and storage cabinet | yes |
| Fixed cabinets and accessible work surfaces | yes |
| Safe | yes |

Finishes

| | | | |
|---------------------------------|-------------------|---------|---------------|
| Floor material: | VCT | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Standard | | |
| Windows | No | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning
Sink and counter space

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | no |
| Smart boards | no |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | no |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

North Stonington Elementary School Facilities Study & Educational Specifications

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Educational Program Specifications – Health Office / Nurse

Program Objectives/Goals: The elementary school health office works to maintain student health through screening performed during the school year, medicating and supporting students with health plans, and aiding and comforting ill or injured students. The nurse and health aide help students achieve and maintain high standards of health. The school nurse also acts as a resource person for health education programs, families, students and provides support to school personnel. The nurse should be involved in the coordination with special education students.

Program Requirements and Activities: - Currently North Stonington Elementary School 382 students who are serviced by fulltime nurse and half-time school health aide in the Health Office. The program encompasses many activities, including routine and special physical examinations, screening tests, vision and height/weight assessments, hearing assessments, scoliosis exam, and follow-up immunization against communicable disease.

- Supporting students with healthcare plans
- Responding to students with injuries or common illnesses
- Yearly screenings
- Maintaining student health records
- Verifies student health forms to ensure health of the community

Space Occupancy: The health office must have space for the following:

- Nurse's Office Space
- Waiting area for up to 5 students
- Area for children with infection who need to be isolated
- Handicapped accessible restroom with storage

Existing Conditions: The Health Room is currently made up of an office where two desks, all file cabinets and storage cabinets, and bench for students are waiting for help. The second room has the sink, two beds that provide no privacy, locked medicine cabinet and a storage cabinet as well as the restroom. During screenings, there is no room for ill children.

Educational Program Specifications – Health Office

Quantity: 1
Proposed SF: 650

Program Requirements

The Health Office should have adequate private space for health examinations, conferences with students/parents, rest, and isolation. An accessible toilet must be included in the overall health program area.

Space Design Concept:

Student Records Vault

Waiting area for up to 5 students (the current one only houses two comfortably)

Examination Area/Room (with dressing room) ** within the exam area/room- a separate area for medication pass and diabetics- currently there is no privacy for these students. Not only do other students walk in on them but parents and teachers *

- o Sink & storage
- o ** 20 feet of open space within the office for vision screenings

Nurse's Office Space – two desks (The nurse's desk be in a separate room, with glass windows for supervision and a door for privacy for conversations with parents and teachers)

Isolation Space (currently houses two students and acts as nurse storage)

Handicap Bathroom and sink (the nurse's office currently uses the Main Office bathroom)

Program Activities

Support the health and well-being of the North Stonington Elementary School community

Loose Furnishings:

2 Desks and Chairs

Waiting area chairs or bench

Beds

Fixed Equipment

| | |
|---|-----|
| Marker/white board | yes |
| Tack board & display boards | no |
| Projection screen/surfaces | no |
| Display and book shelves | no |
| Tall wardrobe and storage cabinets | yes |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---------------|----------------|-----------------------------|
| floor material: | TBD | base material: | TBD |
| wall material: | TBD | finish: | TBD |
| ceiling material: | TBD | height: | 8'-0" minimum |
| hardware: | ada compliant | lighting | multi level direct/indirect |
| fire extinguisher & suppression | per code | | |

Special Requirements

Specialty lighting

HVAC systems including Air Conditioning

Natural and indirect Lighting

Operable windows

Technology

| | |
|--------------------------------|---------------------------------------|
| Power outlet - floor and walls | yes |
| Media projection system | no |
| Smart-boards | no |
| Voice, video and data ports | no |
| Security | yes |
| Portable sound system | no |
| Technology equipment | yes – per the schools technology plan |

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Educational Program Specifications – Health Office Storage

Quantity: 1
Proposed SF: 150

Program Needs:

Storage space for special needs equipment
Locked storage for medical supplies
Lavatory storage for student training
Storage for extra clothing
Fireproof file cabinets for student records

Program Activities

Storage of health related equipment and secure medicine storage cabinet

Loose Furnishings

Lateral file cabinet

Fixed Equipment

| | |
|---|-----|
| Storage space for special needs equipment | yes |
| Medical supply storage | yes |
| Secure storage cabinet | yes |

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Educational Program Specifications – Faculty Lounge and Workroom

Program Objectives/Goals: The Faculty Lounge and Workroom serves as a space for the teachers to collaborate, work, eat meals and prepare materials for students.

Program Requirements and Activities: The faculty and staff utilize this room to meet and collaborate in teams, prepare work for students, communicate with families by phone, and prepare and eat meals.

Faculty Lounge

Appliances, seating, and room for adults to eat, and socialize
Team collaboration

Space Occupancy: The 65 faculty and staff members use the space throughout the day and evening as well as PTO members and community members.

Existing Conditions:

The room has two copy machines, a laminator, large work table, a refrigerator, two microwaves, a small counter space with a sink and two rectangular tables with 10 chairs. One of the two school faculty restrooms is adjacent to the faculty room.

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Educational Program Specifications – Faculty Lounge

Quantity: 1
Proposed SF: 350 to 550 SF Each

Space Design Concept:

Faculty Lounge: A space with comfortable seating that teachers can use in their free or lunch time for informal discussions with co-workers. The space can be adjacent to the work room and have faculty toilets nearby.

- Appliance for refrigeration and preparation of food
- Table and chairs seating for at least 20 adults
- Private area for phone calls
- Comfortable seating for at least 5 – 6 adults

Program Activities

Provide appropriate and comfortable area for break and lunch times and space for preparation of instructional materials.

Loose Furnishings

Faculty Lounge

Circular table for small groups with chairs
Comfortable Chairs

Fixed Equipment

| | |
|---|--------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes |
| Tack board & display boards | yes – 1 at 4 linear feet |
| Projection screen/surfaces | no |
| Flag Bracket & Flag | no |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinet | no |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Tile | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | no |
| Smart boards | no |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | no |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

Educational Program Specifications – Faculty Workroom

Quantity: 1
Proposed SF: 300 to 450 SF Each

Space Design Concept:

Workroom: A space for faculty and staff to copy and prepare work for classroom and students.

- Two copy machines
- Heavy Duty Laminator
- Large table for project work
- Seating

Program Activities

Provide appropriate and comfortable area for break and lunch times and space for preparation of instructional materials.

Loose Furnishings

Workroom

Computer Workstation with chair
Copy Machines
Laminator
Work table and chairs
Bookcases

Fixed Equipment

| | |
|---|--------------------------|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | yes |
| Tack board & display boards | yes – 1 at 4 linear feet |
| Projection screen/surfaces | no |
| Flag Bracket & Flag | no |
| Display and book shelves | yes |
| Tall wardrobe and storage cabinet | no |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|---|---------|---------------|
| Floor material: | Tile | | |
| Base material: | Rubber / Vinyl | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Acoustical Tile | height: | 8'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Multi level direct/indirect | | |
| Windows | Operable with blinds - Maximize natural light | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

HVAC systems including Air Conditioning

Technology

| | |
|----------------------------------|--|
| Power outlet – floor | yes – as appropriate |
| Media projection system | no |
| Smart boards | no |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | no |
| Technology equipment | yes – per the district's technology plan |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

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Educational Program Specifications – Faculty Lounge/Workroom Storage

Quantity: 1
Proposed SF: 150 to 250 SF Each

Program Activities

Storage of food and eating materials
Storage of food and educational materials

Loose Furnishings

Refrigerator
Copiers
Laminators
Work table and chairs
Bookcases

Fixed Equipment

| | |
|--|-----|
| Storage space | yes |
| Storage cabinet | yes |
| Storage space for each teacher's materials | yes |
| Curriculum material shelves | yes |
| Secure storage cabinet | yes |

Technology

| | |
|---------------------|-----|
| Power outlet – wall | yes |
|---------------------|-----|

Educational Program Specifications – Facilities Management and Support

Program Objectives

The physical plant and building systems infrastructure at North Stonington Elementary School must meet the latest building, Fire and Life Safety codes adopted by the State of Connecticut. In addition the renovated facility must meet and/or exceed the High Performance building standards adopted by the State, and achieve a LEED Silver or equivalent certification. Alternative energy systems, energy efficiency and sustainable design solutions, should be implemented in the development of the project to attain the communities goal of environmental stewardship.

Program Activities to be Accommodated

The facilities management department is responsible for the maintenance of North Stonington Elementary School and will address the building systems and spaces identified below:

- Main Boiler Plant
- Emergency Generator
- Electrical Service and distribution
- Power Backup Systems
- Domestic Hot and Cold Water Systems
- Heating, Ventilation and Air Conditioning
- Fire Alarm Systems
- Sprinkler Systems
- Waste Water Systems
- Storm Drainage Systems
- Alternative Energy Systems
- Plant Maintenance / Custodial
- Building Receiving and Storage
- Equipment Storage
- Toilet Facilities
- Janitors Closets
- Maintenance Shop
- Custodial Lounge and Work room
- Custodial Locker Rooms
- Building and Grounds Office and Records Storage

Space Occupancy and Design Criteria

The individuals utilizing the facilities management and maintenance spaces include custodians and building engineers and contract staff, and school administration. The following is a partial list of design elements that will be incorporated into the design of the Building Systems:

- **Fire Protection Systems**
 - The existing service entrances are recommended to be retained and reconfigured for final spacial layout.
 - The system distribution is recommended to be reconfigured based on final special layout.
 - All sprinkler heads are recommended to be replaced.
 - Complete system is recommended to be recertified at project completion.
 - Stage protection to be modified to current requirements.
- **Plumbing Systems**
 - Replace all existing domestic cold water mains and modify service entrance for new special layout.
- **Natural Gas**
 - Combine natural gas services of multiple boiler rooms for centralized network.

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- **Sanitary Service**
 - Completely camera survey exiting sanitary network in conjunction with complete cleaning of all pipes.
 - Reconfigure pipes to accommodate new special layouts.
- **Storm System**
 - Completely camera survey existing storm network in conjunction with complete cleaning of all pipes to accommodate adding and connecting new risers.
 - All drains shall be replaced.
- **Domestic Hot Water**
 - Provide centralized domestic hot water production for facility.
 - Maintain pool area as separate high efficiency plant.
 - Replace all existing domestic hot water mains.
- **Heating**
 - Replace heating system throughout (boilers pumping, distribution piping, terminal units) with one central plant. {3 boilers cleaver brooks 4s series, 2 at 500, 1 at 150; 2 100hp vfd pumps}
- **Ventilation**
 - Provide air conditioning in all spaces. New roof mounted units serving classrooms (1 per 8 classrooms).
 - All major spaces to receive new roof mounted air handling units with hot water coils.
 - Each individual space to be provided with variable air volume air conditioning. The building to be provided with high efficiency centralized airconditioning network. Central chiller preferred. Alternates systems to be evaluated.
 - Replace all exhaust fans.
 - Replace all existing exhaust ductwork.
 - Remove all unit ventilators in school.
 - Replace temperature control system throughout with electric/electronic.
- **Electrical Systems**
 - Provide new emergency generator for school.
 - Allow for replacing of all corridor lighting in and high school.
 - Upgrade (increase) electrical service entrance at high school (2 - 3000 a mdp's, 480v)
 - Replace all existing electrical panels prior >91.
 - Allow for replacing of all lighting in school with energy efficiency lighting.
 - Modify existing telephone system for new layouts.
 - Modify clocks for new layouts.
 - Provide new fire alarm throughout facilities (expand existing network).
- **Security System**
 - Provide a new security system based on video surveillance and a proximity card access and monitoring system
- **Technology Infrastructure**
 - Install an updated wired and wireless infrastructure throughout the facility
- Ceiling height and windows should maximize natural light and accommodate day-lighting.

Existing Conditions: The current condition of the building systems are described in the Section three of the study. The existing space for maintenance, storage, toilets and circulation is adequate; however the specific locations are not adequate at the upper levels of the academic wing.

Current Space Limitations:

Lack of dispersed storage space through all levels of the building.

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Proposed Program and Concept Plan

The program developed for the Building maintenance and support facilities is based on meeting the latest codes and the space requirements of the energy's systems that will be designed for North Stonington Elementary School. Addressing ADA/OCR and resolving the natural light environmental issues will be programming priorities. The proposed plan will provide the opportunity for additional storage.

Design Concept:

The design approach reorganizes the existing program to meet the following priorities:

- Provide dispersed space for general storage, janitor's closet and mechanical equipment.
- The use of smaller energy efficient equipment will reduce the boiler plant footprint and increase general storage capacity.
- Toilet facilities will be renovated and made accessible throughout the facility.

Program Requirements

The key spaces requirements of the Facilities Management office includes, space for the building MEP & FP Systems, Storage, Maintenance department space, building circulation and toilets.

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Educational Program Specifications – Maintenance Offices & Workroom

Quantity: 1
Proposed SF: 200 to 300 SF

Space Design Concept

The maintenance office and work room space should be centrally located and have access to an exterior ramp. The space will function as a meeting room for the custodial staff and will house maintenance related equipment. The space will function as a changing area for staff, include toilets and shower facilities and be adjacent to the team rooms

Program Activities

Planning and support area for the maintenance staff.

Loose Furnishings

Rectangular art tables with chairs
Computer stations
Lateral and Vertical file cabinet
Workbench with Vise
Maintenance Tools
Stepladders

Extension ladder
Thirty foot man lift
Pallet jack
Desk Mover
Hand Truck
Floor Fans

Custodial carts
Flat cart
Vacuum Cleaners
Floor Machines
First Aid Kit
Sweepers

Acoustical treatment
Marker/white board (Multiple)
Tack board & display boards
Projection screen/surfaces
Book shelves
Storage cabinet
Fixed cabinets and accessible work surfaces
Sink

yes
yes – 1 at 12 linear feet
yes – minimum 10 linear feet
no
yes – 12 linear feet
yes – lockable 8 linear feet
yes

Finishes

Floor material:
Base material:
Wall material:
Ceiling material:
Hardware:
Lighting
Windows
Fire extinguisher & suppression

VCT / VET
Rubber / Vinyl
Block / Sheetrock
Acoustical ceiling
ADA compliant
Standard
Maximize natural light
per code

finish: Paint

Special Requirements

Specialty lighting
Deep sinks, eyewash and body shower
HVAC systems including Air Conditioning
Natural and indirect/direct Lighting

Technology

Power outlet - floor and walls
Media projection system
Voice, video and data ports
Security
Portable sound system
Technology equipment
Wireless & Hard wired Network
Integrated public address system

yes – as appropriate
no
yes – phone / intercom and data
yes
no
yes – per the district's technology plan
yes – per the district's technology plan
yes

Educational Program Specifications – Maintenance Storage

Quantity: 2
Proposed SF: 150 to 500 SF Each

Space Design Concept

Storage rooms shall be provided throughout the school. The larger storage areas should be located in the basement level adjacent to the custodial work room and the boiler plant. Chemical and combustible material storage should be in appropriately rated and vented rooms and cabinets. Equipment that uses gasoline should be stored in rooms with direct access to the exterior and in fire rated rooms.

Program Activities

Storage of maintenance related supplies and equipment.

Loose Furnishings

Industrial Shelves
Chemical Storage Cabinets

Fixed Equipment

| | |
|---|-------------------------------|
| Acoustical treatment | yes – Provide sound isolation |
| Marker/white board (Multiple) | no |
| Tack board & display boards | yes – 1 at 4 linear feet |
| Projection screen/surfaces | no |
| Flag Bracket & Flag | no |
| Display and book shelves | no |
| Storage cabinet | yes – lockable 8 linear feet |
| Fixed cabinets and accessible work surfaces | yes |

Finishes

| | | | |
|---------------------------------|-------------------|---------|----------------|
| Floor material: | Concrete | | |
| Base material: | N/A | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | Sheetrock | height: | 10'-0" minimum |
| Hardware: | ADA compliant | | |
| Lighting | Standard | | |
| Windows | no | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Explosion proof fixtures
HVAC systems including Air Conditioning

Technology

| | |
|----------------------------------|---------------------------------|
| Power outlet - floor and walls | yes – as appropriate |
| Media projection system | no |
| Smart boards | no |
| Voice, video and data ports | yes – phone / intercom and data |
| Security | yes |
| Portable sound system | no |
| Technology equipment | no |
| Wireless & Hard wired Network | no |
| Integrated public address system | yes |

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Educational Program Specifications – Facilities Boiler Plant

Quantity: 1
Proposed SF: 1000 to 1,500 SF

Space Design Concept

The boiler room will house the heating equipment for the operation of the school.

Program Activities

Mechanical room for boiler plant operation.

Loose Furnishings

Safety equipment
First Aid Kit

Fixed Equipment

| | |
|---|---|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | no |
| Tack board & display boards | yes – 1 at 4 linear feet (post notices) |
| Projection screen/surfaces | no |
| Flag Bracket & Flag | no |
| Display and book shelves | no |
| Tall wardrobe and storage cabinet | no |
| Fixed cabinets and accessible work surfaces | yes -Limited |

Finishes

| | | | |
|---------------------------------|-------------------|---------|-------|
| Floor material: | Concrete | | |
| Base material: | None | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | None | | |
| Hardware: | ADA compliant | | |
| Lighting | Utility Standard | | |
| Windows | No | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Ventilation of equipment per code

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Voice and data ports | yes – phone / intercom and data |
| Security | yes |
| Technology equipment | yes – related to the equipment in the room |
| Wireless & Hard wired Network | yes – Access should be available |
| Integrated public address system | yes |

Educational Program Specifications – Electrical Room

Quantity: 1
Proposed SF: 400 to 550 SF

Space Design Concept

The Electrical room will house the electrical switch gear, distribution panels and other designated equipment for the operation of the school.

Program Activities

Electrical room for boiler plant operation.

Loose Furnishings

Safety equipment
First Aid Kit

Fixed Equipment

| | |
|---|---|
| Acoustical treatment | yes |
| Marker/white board (Multiple) | no |
| Tack board & display boards | yes – 1 at 4 linear feet (post notices) |
| Projection screen/surfaces | no |
| Flag Bracket & Flag | no |
| Display and book shelves | no |
| Tall wardrobe and storage cabinet | no |
| Fixed cabinets and accessible work surfaces | yes -Limited |

Finishes

| | | | |
|---------------------------------|-------------------|---------|-------|
| Floor material: | Concrete | | |
| Base material: | None | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | None | | |
| Hardware: | ADA compliant | | |
| Lighting | Utility Standard | | |
| Windows | No | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Ventilation of equipment per code

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Voice and data ports | yes – phone / intercom and data |
| Security | yes |
| Technology equipment | yes – related to the equipment in the room |
| Wireless & Hard wired Network | yes – Access should be available |
| Integrated public address system | yes |

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Educational Program Specifications – Loading Dock and Receiving

Quantity: 1
Proposed SF: 150 to 400 SF

Space Design Concept

Centralized delivery for food service and supply deliveries/share loading dock space

Program Activities

Staging area for all deliveries

Loose Furnishings

Hand Dolly

Fixed Equipment

| | |
|---|---|
| Acoustical treatment | no |
| Marker/white board (Multiple) | no |
| Tack board & display boards | yes – 1 at 4 linear feet (post notices) |
| Projection screen/surfaces | no |
| Flag Bracket & Flag | no |
| Display and book shelves | no |
| Tall wardrobe and storage cabinet | no |
| Fixed cabinets and accessible work surfaces | no |

Finishes

| | | | |
|---------------------------------|-------------------|---------|-------|
| Floor material: | Concrete | | |
| Base material: | None | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | None | | |
| Hardware: | ADA compliant | | |
| Lighting | Utility Standard | | |
| Windows | No | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements

Ventilation of equipment per code
Area drain in dock recess area
Dock-leveler and bumper

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Voice and data ports | yes – phone / intercom and data |
| Security | yes |
| Technology equipment | yes – related to the equipment in the room |
| Wireless & Hard wired Network | yes – Access should be available |
| Integrated public address system | yes |

Educational Program Specifications – Sprinkler Room

Quantity: 1
Proposed SF: 250 to 300 SF

Space Design Concept
Sprinkler room for the fire suppression system

Program Activities
Mechanical equipment space

Loose Furnishings
none

Fixed Equipment

| | |
|---|---|
| Acoustical treatment | no |
| Marker/white board (Multiple) | no |
| Tack board & display boards | yes – 1 at 4 linear feet (post notices) |
| Projection screen/surfaces | no |
| Flag Bracket & Flag | no |
| Display and book shelves | no |
| Tall wardrobe and storage cabinet | no |
| Fixed cabinets and accessible work surfaces | no |

Finishes

| | | | |
|---------------------------------|-------------------|---------|-------|
| Floor material: | Concrete | | |
| Base material: | None | | |
| Wall material: | Block / Sheetrock | finish: | Paint |
| Ceiling material: | None | | |
| Hardware: | ADA compliant | | |
| Lighting | Utility Standard | | |
| Windows | No | | |
| Fire extinguisher & suppression | per code | | |

Special Requirements
Ventilation of equipment per code
Area drain in dock recess area

Technology

| | |
|----------------------------------|--|
| Power outlet - floor and walls | yes – as appropriate |
| Voice and data ports | yes – phone / intercom and data |
| Security | yes |
| Technology equipment | yes – related to the equipment in the room |
| Wireless & Hard wired Network | yes – Access should be available |
| Integrated public address system | yes |

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Educational Program Specifications – General Toilets and Janitors Closets

Quantity: 2
Proposed SF: 150 to 750 SF

Space Design Concept

The toilets should be located in pairs with a men's and women's (boys and girls) toilet on each level of the school. Additional toilets will be located in proximity to the assembly spaces such as the auditorium and gymnasiums etc. All Toilets will be accessible with a HC stall. Kindergarten and Pre-Kindergarten classrooms will include individual toilets.

Program Activities

Rest room for all occupants

Loose Furnishings

Toilet accessories such as soap, toilet paper etc.

Fixed Equipment

| | |
|-----------------------------|----------------|
| Acoustical treatment | yes |
| Toilet accessories | yes |
| Toilet Partitions | yes – lockable |
| Accessible counter surfaces | yes |

Finishes

| | | |
|---------------------------------|--------------------------------------|-----------------------|
| Floor material: | Ceramic Tile | |
| Base material: | Ceramic Tile 6 feet high minimum | |
| Wall material: | Block / Tile | finish: Ceramic Tile |
| Ceiling material: | Moisture resistant Acoustical Tile | height: 8'-0" minimum |
| Hardware: | ADA compliant | |
| Lighting | Multi-level direct | |
| Windows | Translucent - Maximize natural light | |
| Fire extinguisher & suppression | per code | |

Special Requirements

HVAC systems including Air Conditioning
Sensor activated
Floor drains
Changing tables in specific toilets

Technology

| | |
|----------------------------------|--|
| Power outlet - walls | yes – as appropriate |
| Voice and data ports | yes – phone / intercom and data |
| Security | yes |
| Technology equipment | no |
| Wireless & Hard wired Network | yes – per the district's technology plan |
| Integrated public address system | yes |

Educational Program Specifications – General Building Envelope

Design Concept

The building envelope consists of the masonry exterior wall, window system, skylights and roof. Based on the goal of optimizing the energy efficiency and conservation, all systems with the exception of the masonry cavity walls will be replaced.

Special Requirements

- Roof pitch with a 1/2" per foot slope
- White reflective roof
- Energy efficient triple pane windows – Window type Hoppers/Awning and/or Sliders
- Sunshade devices will be installed
- Additional insulation of exterior wall if feasible.
- Photovoltaic panels at designated areas of the building.

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Enrollment Projections

Each year the administration updates student enrollment projections for the North Stonington Public Schools by grade, and by grade combinations from Kindergarten through Grade 12. These enrollment projections are used during the budget development process to anticipate future staffing needs as well as materials, equipment, and/or furniture needs associated with increases or decreases in projected enrollments.

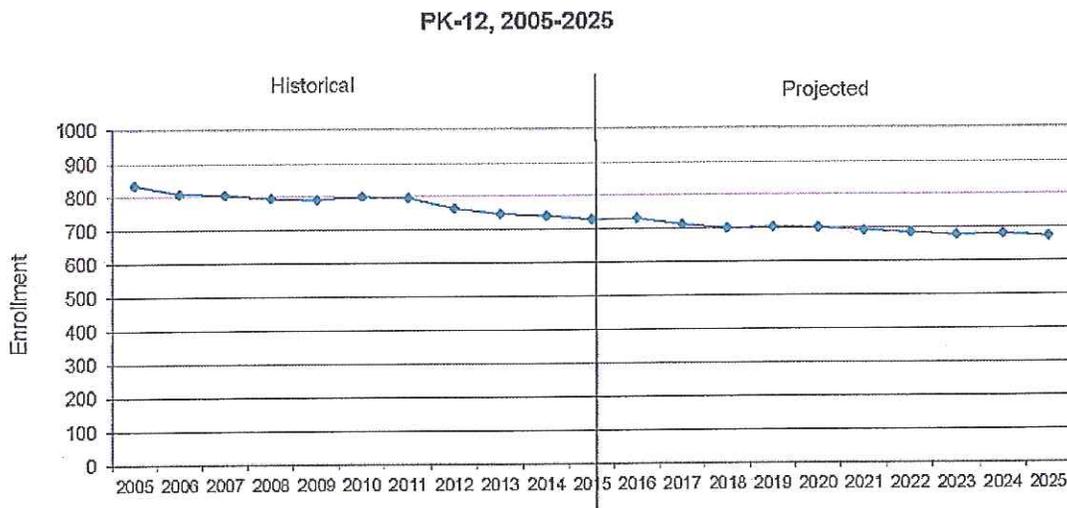
The enrollment in the North Stonington Public Schools peaked in 2001 at 883 and declined to 729 students in 2015 which includes the pre-kindergarten program that was introduced in 2006. Projections during the next eight-year period 2016-2023, the North Stonington Public Schools experienced a decrease in enrollment, to 682 in 2023-24, a decrease of 47 students or 9.3 percent. During this period there will be some fluctuation in the enrollment with a maximum projected enrollment of 732 in 2016. However, the elementary school enrollment will be directly impacted with the increase of students in the pre-kindergarten and kindergarten programs.

The State Department of Education requires enrollment projections indicating the highest 8 year projected enrollment starting in October of the year the project application is submitted. Based on a potential additions and alterations project for North Stonington Elementary School, enrollment projections would be required for October 2016 thru October 2023

The following information was obtained from the report titled "2016 – 2017 Enrollment Projections" by Donald G. Kennedy, Ed.D, a demographic specialist with NESDEC dated March 29th, 2016. The full report is included in Appendix A of the educational specifications.

Based on the enrollment projections provided by Donald G. Kennedy, Ed.D., the enrollment at North Stonington Public Schools is projected to be 803 students in the year 2016-17 which is the highest projection over the 8 year projection period required by the State Department of Education. The breakdown of the enrollment for 2016 -2017 is:

2016-2017: PK = 37 K-5 = 335 6-8 = 176 9-12 = 189 Total = 737



An overview of the enrollment projections from the NESDEC enrollment projection for North Stonington Elementary School is provided in the follows tables:

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School District: North Stonington, CT

3/29/2016

| Birth Year | Births | School Year | PK | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | UNGR | K-12 | PK-12 |
|------------|--------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|-------|
| 2000 | 60 | 2005-06 | 0 | 62 | 71 | 60 | 60 | 64 | 60 | 71 | 64 | 60 | 65 | 64 | 67 | 67 | 0 | 835 | 835 |
| 2001 | 50 | 2006-07 | 18 | 48 | 62 | 78 | 56 | 63 | 61 | 58 | 69 | 65 | 55 | 53 | 67 | 56 | 0 | 791 | 809 |
| 2002 | 49 | 2007-08 | 18 | 53 | 51 | 63 | 70 | 58 | 62 | 63 | 57 | 67 | 70 | 57 | 52 | 66 | 0 | 787 | 805 |
| 2003 | 55 | 2008-09 | 18 | 63 | 51 | 63 | 63 | 75 | 58 | 66 | 60 | 55 | 61 | 60 | 51 | 53 | 0 | 777 | 799 |
| 2004 | 52 | 2009-10 | 20 | 69 | 59 | 52 | 63 | 59 | 74 | 57 | 62 | 63 | 57 | 54 | 60 | 55 | 0 | 771 | 791 |
| 2005 | 55 | 2010-11 | 24 | 59 | 63 | 61 | 60 | 57 | 57 | 61 | 58 | 63 | 58 | 53 | 57 | 60 | 0 | 716 | 800 |
| 2006 | 47 | 2011-12 | 21 | 60 | 64 | 62 | 50 | 57 | 57 | 79 | 59 | 63 | 68 | 53 | 55 | 60 | 0 | 775 | 786 |
| 2007 | 59 | 2012-13 | 39 | 65 | 49 | 60 | 64 | 62 | 46 | 52 | 51 | 73 | 61 | 50 | 50 | 52 | 0 | 725 | 784 |
| 2008 | 47 | 2013-14 | 36 | 55 | 59 | 47 | 60 | 60 | 61 | 51 | 52 | 51 | 63 | 48 | 48 | 56 | 0 | 711 | 747 |
| 2009 | 46 | 2014-15 | 37 | 58 | 54 | 63 | 50 | 61 | 60 | 66 | 51 | 47 | 47 | 43 | 49 | 0 | 704 | 741 | |
| 2010 | 41 | 2015-16 | 31 | 62 | 55 | 54 | 62 | 46 | 50 | 61 | 60 | 52 | 40 | 47 | 58 | 44 | 0 | 666 | 726 |

The enrollment at the elementary school peaked at 386(PK-5) in 2006-2007 and has been declining with a low of 367(PK-5) students in 2015-2016. However, with the addition of the 6th grade to the school, the enrollment over the next eight years is expected to increase to 399(PK-6) students in 2023-2024 and remain relatively flat with 402 students in the year 2025-2026. Based on this projection the student enrollment of 426 will be utilized for the State Board of Education Grant application and the space standards calculations for North Stonington Elementary School. Increase in the Pre-Kindergarten and Kindergarten programs will further impact this projected enrollment count and should be resolved prior to the submission of the grant application for any project at this facility.

This projected student enrollment growth has implications at all three levels, elementary, middle school, and high school, in light of the current operating capacity of each school facility as outlined in the New England School Development Council's report entitled Long Range School Facilities Master Plan, dated November 2010.

Enrollment projections have been provided by the New England School Development Council (NESDEC), located in Marlborough, Massachusetts. NESDEC is able to project enrollments for up to a ten-year period of time. It cautions however, that the degree of confidence in its projections diminishes the further out one looks. NESDEC relies on historical data from the previous five-year period to make its projections.'

| Year | PK-5 | K-5 | K-6 | K-3 | 5-3 | 6-3 | 7-3 | 7-12 | 9-12 |
|---------|------|-----|-----|-----|-----|-----|-----|------|------|
| 2005-06 | 377 | 377 | 448 | 572 | 255 | 195 | 124 | 387 | 283 |
| 2006-07 | 386 | 366 | 428 | 560 | 253 | 192 | 134 | 365 | 231 |
| 2007-08 | 373 | 355 | 418 | 542 | 249 | 197 | 124 | 369 | 245 |
| 2008-09 | 391 | 363 | 428 | 549 | 244 | 198 | 121 | 349 | 226 |
| 2009-10 | 383 | 363 | 420 | 545 | 256 | 182 | 125 | 351 | 226 |
| 2010-11 | 371 | 347 | 428 | 550 | 260 | 203 | 122 | 348 | 226 |
| 2011-12 | 371 | 350 | 429 | 551 | 258 | 201 | 122 | 348 | 224 |
| 2012-13 | 385 | 346 | 399 | 522 | 222 | 176 | 124 | 327 | 203 |
| 2013-14 | 376 | 342 | 393 | 485 | 215 | 154 | 103 | 318 | 215 |
| 2014-15 | 391 | 344 | 410 | 508 | 224 | 194 | 98 | 294 | 196 |
| 2015-16 | 367 | 335 | 397 | 509 | 229 | 173 | 112 | 301 | 189 |

The methodology used by NESDEC is known as the cohort survival method. This method looks at past enrollment patterns and projects future enrollment on the basis of past history. Factors such as the balance between in-migration and out-migration of students, changes in housing patterns, and other demographic information may

require periodic modifications to the cohort survival formulas. These modifications are generally done by experienced demographers as in the case of the State Department of Education and NESDEC.

Projecting Enrollment: The Methodology

Although there are various methods of predicting the future number of students in any school district, the *Cohort Survival Method* is probably the single most utilized method today. This method, in its generic form, works as follows:

1. A demographer calculates the actual number of students in each grade for a period of five or ten year;

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2. Next, the demographer takes the percentage difference between one year's data compared to the next year's actual enrollment in the subsequent grade level (students in first grade in year one are compared to students in second grade in year two);
3. Then the demographer computes the mean average percentage of "student survival" or "change coefficient" of the five or ten actual data-based years for each grade level;
4. Finally, the demographer uses this mean percentage average and applies it as a constant projection into, usually, five future years by initially applying that mean percentage for each grade level on the final year of *actual data*, and then carrying these projections forward for another five years. This method, by itself, is a sufficient methodology to use if a school district is very stable, and if it is undergoing a small and predicted growth or decline pattern. The projections become less accurate as the number of future projection years' increase. Therefore, modifications of this method of predicting future student enrollments have to be used in conjunction with the standard *Cohort Survival Method*. Specifically, as in the case of the North Stonington Public Schools, if there has been rapid enrollment growth or decline in the past three to five years, which would be masked by the use of the mean percent of survival figure used as the multiplier to project the student population into future years, the demographer must modify the standard percent of survival figures obtained from the *Cohort Survival Method* by using common sense, pragmatic modifications.

For example, an analysis of the town's population density allows the demographer to avoid wanting students in areas unsuitable for housing, thus providing a more accurate determination of projected growth and decline trends in specific areas of the school district. Additionally, while short-term (one-year) projections are accomplished with a high degree of confidence, five-year projections can be more uncertain. Factors contributing to the uncertainty include in/out migration, public/private school enrollments and transfers, births and birthrates. It is generally recognized by demographers that *Component Cohort Survival Methodology* including the analysis of these additional variables is most adequate in reducing the relative error in projections.

Enrollment projections, using the modified cohort survival method, will continue to be updated each school year.

Enrollment Projections and Space Standards

The State of Connecticut Department of Education provides grants for school construction projects to all public school systems. The eligibility of a school project for State funding is governed by the Connecticut General Statutes (CGS) and the grant application is administered by the State Department of Education Grants Division. Each municipality must apply for the grant by June 30th of each year and the funding is approved the following year. The Town of North Stonington has applied for and received several school construction grants over the years and specifically was funded for the last construction project that included renovations and code updates.

In considering the renovations and additions project at North Stonington Elementary School for state reimbursement several regulations must be evaluated. These include laws that will determine the project eligibility, priority and estimated percentage of the project cost that is for the state grant. Additionally, the Town of North Stonington must meet the requirement of the Office of School Construction Grants/Department of Construction Services and ultimately an audit of the project. Regulation of the State Board of Education Concerning School Construction Grants can be reviewed in the Connecticut General Statutes Section 10-287 c-J to 10-287 c-2J.

The first step in this process will be a meeting with representatives from the State Department of Education to review a waiver request for a partial or complete waiver of the space standards.

North Stonington Elementary School Facilities Study & Educational Specifications

June 1, 2016

SPACE STANDARDS WORKSHEET

This worksheet should be completed and submitted with the application for any N (new), E (extension), A (alteration), or RENO (renovation) project, or combination of such types of project.

State Standard Space Specifications Grades

| Projected Enrollment | Pre-K and K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Allowable Square Footage per Pupil | | | | | | | | | | | | | |
| 0 - 350 | 124 | 124 | 124 | 124 | 124 | 156 | 156 | 180 | 180 | 194 | 194 | 194 | 194 |
| 351 - 750 | 120 | 120 | 120 | 120 | 120 | 152 | 152 | 176 | 176 | 176 | 190 | 190 | 190 |
| 751 - 1500 | 116 | 116 | 116 | 116 | 116 | 148 | 148 | 170 | 170 | 170 | 184 | 184 | 184 |
| Over 1500 | 112 | 112 | 112 | 112 | 112 | 142 | 142 | 164 | 164 | 164 | 178 | 178 | 178 |

- Under the column headed "Projected Enrollment", find the range within which your school's highest projected 8 year enrollment falls.
- Using the figures on that line, complete the grid below for only those grades housed within the school.

| | | | |
|---|-----|----|--------|
| Pre-K | 120 | 6 | 156 |
| K | 120 | 7 | |
| 1 | 120 | 8 | |
| 2 | 120 | 9 | |
| 3 | 120 | 10 | |
| 4 | 120 | 11 | |
| 5 | 152 | 12 | |
| (a) Total (grades Pre-K through 12) | | | 1,032 |
| (b) Number of grades housed | | | 8 |
| (c) Average [(a)/(b)] | | | 128 |
| (d) Highest Projected 8-year Enrollment | | | 426 |
| (e) Maximum Square Footage [(c) x(d)] | | | 54,954 |

- Total square footage at completion of project:
 - Existing area constructed pre-1950. 0
 - Multiply "a." by 80% 0
 - Area (at completion of project) constructed 1950 or later. 57,831
 - Square footage for space standards computation (b+c). 57,831

If line 2(e) is greater than line 3(d) there is no grant reduction.

If line 3(d) is greater than line 2(e), divide line 2(e) by line 3(d). 0.9503 *

* This factor will be used to reduce total eligible costs because of space in excess of the maximum eligible for reimbursement.

If a project exceeds the standards solely as the result of extraordinary programmatic requirements, the superintendent may submit a request to the Commissioner for a waiver. A detailed list of space allocations for all extraordinary programs with explanations must be included with the request.