

Region 17 PUBLIC SCHOOLS

EDUCATIONAL SPECIFICATIONS

DRAFT December 11, 2024

Haddam Killingworth High School
95 Little City Road,
Higganum, CT 06441

PREPARED FOR:

Region 17 Board of Education
57 Little City Road,
Higganum, CT 06441

PREPARED BY:



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Project Overview

The Haddam Killingworth High School (HKHS) facility improvement initiative addresses the pressing need to modernize a 52-year-old infrastructure to meet current and future educational demands. Phase 1 of this master plan prioritizes the physical plant, which is categorized as “below standard” by the NEASC due to outdated science labs, non-compliance with ADA and life safety codes, and aging mechanical systems. Community input, reflecting an 81% consensus, underscores the importance of addressing safety and security concerns while fostering spaces that support 21st-century learning. Key upgrades will include modernizing inefficient building envelopes, ensuring code compliance, and implementing robust Mechanical, Electrical, Plumbing, and Fire Protection (MEP/FP) systems. These improvements aim to enhance the health, comfort, and safety of occupants, reduce long-term maintenance costs, and align with sustainability goals.

Planning for these upgrades integrates demographic projections, financial considerations, and stakeholder input to ensure an optimized solution. Enrollment is expected to grow steadily over the next decade, with existing building capacity deemed adequate. The feasibility of utilizing the current 220,520-square-foot facility versus constructing a new, more efficient structure is under evaluation, balancing cost projections and state reimbursement incentives. Site design will address FEMA floodplain, wetlands, and stormwater drainage concerns, while improvements to traffic flow and athletic facilities are also included. Security upgrades, including advanced surveillance and cloud-based systems, will integrate seamlessly with enhanced technology infrastructure, such as expanded Wi-Fi and data access. This initiative represents a collaborative effort to deliver a forward-looking, flexible educational environment tailored to the evolving needs of the HKHS community.

These Educational Specifications were developed in collaboration with the Superintendent, Jeff Wihbey, Director of Food Services, Sharon Shettleworth, Facilities Manager, John Converse, Principal of Haddam Killingworth High School, Donna Hayward, Assistant Principal of Haddam Killingworth High School, Adam Apicella, Athletic Director, Lynne Flint and Haddam Killingworth High School staff. The following individuals participated in specific program meetings to provide input for these educational specifications:

Howard Burr – Custodian
Donna Bartalotta – Administrative Assistant
Amy Giranella – Counseling Secretary
Holly Nicoletti – Special Education Teacher
Emily Baerlein – School Counselor
Steve Tanasi – Security
David Lowry – Science Teacher
Marcy Webster – Chorus Teacher
Kelly Brown – Special Education Teacher
Wendy Adamczyk – Math Teacher
Angie Miller – Math Teacher
Christine Ahern – Math Teacher
Zak Cropper-Alt – Math Teacher
Kate Bagnoli – Math Teacher

Cate DeLuca – School Psychologist
Mike Czarkowski – English Teacher
Michael Baklik – P.E./Health Teacher
Joanna Siciliano – Food Service Teacher
Sarah Landers – World Language Teacher
Ryan Kish – Tech Ed. Teacher
Ross Pendleton – History Teacher

Rationale for the Project

The Haddam Killingworth High School (HKHS) facility improvement initiative addresses critical deficiencies in infrastructure, programming, and compliance while preparing the school to meet future educational and community needs. With an average building age of 52 years, the existing infrastructure is at the end of its useful life, with non-functioning science labs, aging mechanical systems, and a lack of modern safety features such as sprinkler systems. These inadequacies have led to a “below standard” rating from the New England Association of Schools and Colleges (NEASC), underscoring the imperative need for comprehensive upgrades. Addressing these issues in Phase 1 of the master plan is essential to ensuring the safety, comfort, and productivity of students and staff.

Demographic trends further justify this investment. Enrollment is projected to grow steadily over the next decade, with an anticipated increase of 7.6% between 2028 and 2033. Although the current building capacity is sufficient, the outdated infrastructure is ill-equipped to support modern teaching methodologies and 21st-century learning environments. Community feedback reflects a strong consensus for action, with 81% of respondents identifying safety, security, and learning modernization as top priorities. The project will address these needs through targeted improvements, including compliance with ADA and life safety codes, upgrades to Mechanical, Electrical, Plumbing, and Fire Protection (MEP/FP) systems, and enhancements to energy efficiency and sustainability.

In addition to improving the educational environment, the project incorporates site design considerations such as traffic flow, stormwater drainage, and athletic facility programming. Technological upgrades, including cloud-based security systems and expanded data access, will further enhance the school’s operational capabilities. Financially, state reimbursement opportunities and a cost-effective evaluation of renovating versus rebuilding will ensure responsible use of public funds. Ultimately, this initiative represents a commitment to providing a safe, adaptive, and future-ready educational facility, reinforcing Haddam Killingworth High School’s role as a cornerstone of the community.

Long Range Educational Plan

Regional School District #17 (RSD17) has an established vision and mission, and an instructional vision that will guide the educational specifications for the building improvement phases of Haddam Killingworth High School (HKHS). These specifications will inform design and improvement decisions to ensure the project meets educational standards, aligns with the District’s goals, and supports the evolving needs of students.

This document provides the foundation for the project work, including RSD17’s instructional vision, mission and vision, a summary of prior architectural efforts, HKHS’s learning expectations, and detailed explanations of academic goals by programmatic area.

Our shared goal is to deliver a safe, accessible and sustainable student-centered facility that meets both current and future educational needs while adhering to the approved timeline and budget.

Mission and Vision, Beliefs

Instructional Vision

RSD17 provides all students with a high-quality education that prepares them for college, career, and citizenship. To achieve this mission, we ensure that every classroom is a place where students are engaged in rigorous and relevant learning tasks, supported by effective and caring teachers, and challenged to meet high expectations. This is our vision of instruction, and it is based on the instructional core framework that emphasizes the interrelatedness of the teacher, the student, and the curriculum around a task. In this document, we describe our instructional vision in detail, and how it aligns with our district goals, standards, and initiatives. Our work in developing this vision incorporated elements of our VoG, SOP, District Values, and Theory of Action, which were created by our teachers, educational leaders, and community. It drives professional reflection, learning, and growth.

RSD17 Mission and Vision

The mission of Regional School District 17 (RSD17) is to engage students in an educational community that challenges them with high standards and builds their capacity for success and their aspiration to improve themselves and their society.

Project History

To support this mission and ensure our facilities align with our educational vision, RSD17 partnered with Tecton Architects to conduct comprehensive Educational Facility Assessments, a Demographic Study, and a Board of Education Master Plan. This multi-phase process included:

- **Evaluation of Existing Facilities:** Assessing the physical condition, structural integrity, and infrastructure of all school buildings.
- **Demographic Study:** Projecting district-wide enrollment over the next 20 years, including variables such as the housing market influenced by COVID-19.
- **Long-term Capital Management Plan:** Developing a framework that considers sustainability, climate change, and the modernization of mechanical infrastructures.
- **District-wide Master Plan:** Providing a research-based roadmap to meet RSD17's educational mission and align with national standards.

Building on these findings, the Board of Education selected Antinozzi Associates to conduct Educational Specifications and a Feasibility Study for Haddam Killingworth High School (HKHS). As part of this study, the team engaged stakeholders—including staff and community through interviews and workshops to gather input on educational programming, space needs, and facility improvements. Key discussions included the potential for renovation versus a rebuild, current building challenges, and future possibilities.

Two community workshops were held in November 2024 to share updates and invite feedback on the high school project. Further discussions through the HKHS Feasibility Study Committee (HKHS-FSC) are scheduled from mid-December through February, with committee

members and agenda topics identified. The next phase includes conducting a referendum and forming a building committee to oversee the implementation of this plan.

All these efforts are aimed at creating a high school facility that provides students with an exceptional learning environment, preparing them for graduation and beyond. The RSD17 Vision of the Graduate unifies and clarifies our goals for students, focusing on the development of skills and dispositions essential for success in an increasingly connected global world. This vision identifies six key elements, intertwined with curriculum content standards and excellence in teaching, to prepare students as leaders, creators, and innovators who will contribute meaningfully to society.

Haddam Killingworth High School

Haddam Killingworth High School proudly aligns with the guiding principles and strategic priorities of RSD17, creating a cohesive framework to support our students, staff, and community.

Our **core values** reflect our belief that every member of our community has value. We believe in the power of intellectual curiosity, global responsibility, and personal integrity. We believe in developing the knowledge and skills essential to healthy and productive lives.

HKHS Learning Expectations

At HKHS, students are expected to demonstrate mastery of five key learning expectations:

In a variety of contexts for a variety of purposes, students will:

1. Demonstrate personal responsibility, character, cultural understanding, and ethical behavior;
2. Communicate clearly and effectively in order to express ideas and connect with others;
3. Investigate, evaluate, and apply information;
4. Work both independently and collaboratively toward a specific outcome;
5. Demonstrate creative, innovative, and reflective thinking.

By combining our mission, core values, and learning expectations with the district's instructional vision and master plan, HKHS is committed to providing an educational experience that prepares students for success in a rapidly changing world.

Learning / Educational Activities

Academic Goals

Math

The mission of the Haddam Killingworth High School Mathematics Department is to provide a program that ensures that all students acquire the mathematical skills needed for success in college, careers, and a technology-driven society. Students will build their mathematical literacy and extend their learning to become informed and capable citizens. Our math

program offers a range of courses ranging from Algebra 1 through AP Calculus BC. Included in our offerings are courses tailored to individual needs, including several Math Skills Classes that provide additional support for students in Algebra 1, Geometry, and Algebra 2. Along those lines, we also offer a Peer Tutor Club for students needing help in math, science, and other classes. In addition, the math department recently launched Mu Alpha Theta, a new honor society for high-achieving math students and those passionate about celebrating and exploring mathematics.

Language Arts

The mission of the HKHS English Department is to develop effective communication, collaboration, critical thinking, and discussion skills in our students. We strive to instill a capacity for empathy and citizenship through critical thinking, reflection, and appreciation of diverse viewpoints through the use of both print and multimedia sources. In order to foster life-long learners, thinkers, collaborators and communicators, we teach in a student-centric, discussion-based learning model where we expect close reading, deep analysis, and collaborative problem-solving. Our students learn from us and each other in an environment where they feel safe to take intellectual risks in their writing and speaking. Through our rigorous program, all students will successfully master literacy, reading, writing, listening, and speaking.

History and Social Sciences

The History and Social Sciences Department at HKHS asserts that students educated for informed and active citizenship must have a basic knowledge of the history and traditions of the world, their own country, and their unique heritage. They must also demonstrate familiarity with the basic concepts of history and the social sciences. They will need access to an array of print, digital, and multimedia resources to do so. Students must be able to use critical thinking skills in the application of that knowledge for decision-making and the analysis of controversial issues past, present, and future. Spaces that provide an environment where students are able to express their ideas and be able to effectively interact with one another are essential. Students also need to have access to their instructors both during class times and during other times of the day; instructors need space that can be utilized by students for both collaborative and independent work and assessment.

Our students must also demonstrate a respect for different cultural traditions and their contributions to the nation's pluralistic society. They must demonstrate concern for the environment and awareness that the earth's resources are finite. Most importantly, they must realize that learning is a life-long process and that active and informed civic participation is a duty. Our curriculum often includes activities that foster these skills and knowledge through movement about the classroom. Students are often asked to work collaboratively on whiteboards or paper posted throughout the room in order to encourage full class participation. Visuals, such as maps, graphic organizers and other related materials are often posted in the classroom to help emphasize the global nature of our subjects and provide students with models for their own work. Adequate wall space and materials such as whiteboards, SMART boards, and View Boards are frequently used materials within our classrooms.

Space or furniture is needed for storage of materials in the teacher's classroom. Our curriculum utilizes a wide range of materials from textbooks to globes that require storage. Infrastructure for twenty-first-century learning is necessary. Audio systems where teachers' voices can be projected for students either with hearing issues, or just to project clearly for students in all parts of the room to hear better. Technology where teacher and student laptops can access the project or view board is vital to productive classrooms.

Safe classrooms are greatly desired by and beneficial to students and instructors. Rooms with secure doors and less window space to the hallway, sprinkler systems, rooms that meet ADA regulations, and advanced entry and locking systems all support the learning environment.

Science

The Haddam-Killingworth High School Science Department offers a comprehensive curriculum, providing all students pathways to achieve their educational goals. The science department values authentic learning opportunities. Students participate in hands-on laboratory experiences that highlight the applications of science to everyday life.

Science courses encourage students to use a variety of academic and technological resources to become self-directed, self-reflective, independent learners. Emphasis is placed on Next Generation Science Standards (NGSS) science and engineering practices, helping students become effective communicators, discerning problem solvers, and innovative designers. At the same time fostering effective collaboration and developing skills that are transferable for success in a global society.

Multimedia (TV Studio/Lab):

- The TV studio and control room spaces and equipment are an essential part of the Multimedia program, these are a core part of the school culture and identity
- We are dedicated to continuously updating our equipment, software, and curriculum to reflect Industry Standards
- A dedicated computer editing lab space that is easily accessible to the TV studio and other spaces within the Multimedia lab space is essential
- An overall Multimedia Lab space that is easy to supervise and flow between areas that allow for Teachers and Students to work concurrently in multiple areas within the same class period is essential but also maintains dedicated spaces that mitigate light and sound interference
- Storage and organization of equipment within the Multimedia Lab that is accessible to students and teachers
- Teacher instruction, demonstration & classroom space is required within the lab space
- We are dedicated to making the Multimedia lab space ADA compliant, accessible to all students, and accessible to the Auditorium
- A larger continuous space

Technology & Engineering Education (B wing):

The Technology & Engineering teachers and lab spaces continuously overlap resources, workspaces, equipment and students. Allowing easy access and workflow between these spaces is essential to our culture and daily operations.

Technology Education:

- Project Based learning that utilized industry-standard tools and equipment
- Trades Supported:
 - Woodworking & Construction
 - Metal Manufacturing (Industry 4.0, Fabrication, Welding, Machining, CNC Machining)
 - Automotive/Small Engine Repair & Diagnostics
- These courses are both experiential for all students and Scalable for students who plan to enter into Skilled Trades
- We support all career paths including 4-year, 2-year, & Technical Certification Programs
- We consistently are working to keep our technology aligned with evolving industrial equipment & practices
- We believe that maintaining our current spaces and footprint will allow us to adapt and evolve as courses change to reflect changes in Industry
- Project Storage and Organization that supports a variety of courses within the same lab spaces is an essential upgrade needed.

PLTW Engineering:

- We support the Project Lead the Way pre-engineering curriculum/pathway that includes: Civil/Architecture, CAD/Modeling, Computer Science, Electrical, Robotics, CNC Manufacturing, Industry 4.0 & Mechanical Engineering
- Emphasis on a combined lab space that supports a teacher presentation area, computer workstation spaces, adaptable project construction, and project storage spaces
- Allow for flow of students, teachers, tools and equipment between Engineering and Technology labs is essential to our engineering curriculums. Mobile and Modular workspaces are essential
- Dedicated equipment in the PLTW lab space should include 3D printers, laser cutting, sanding/gluing tools, and robotic (Cobot) arms. CNC machines should be included or adjacent

World Language

The Haddam-Killingworth World Languages Department focuses on the natural acquisition of languages and preparing students to communicate effectively, engage with diverse cultures, and contribute to a global society. In class, students are immersed in real-world contexts, stories, authentic materials, and interdisciplinary studies, which empowers them to communicate confidently and meaningfully with each other and a wider audience through both spoken and written language. The department's philosophy is based on state and national standards, emphasizing communication, cultures, connections, comparisons, and communities. While cultivating students' linguistic skills, teachers also grow students'

empathy, awareness of cultural diversity, critical thinking, career skills, global awareness, and lifelong passion for learning. We encourage students to study to the highest level of the language, and we remind students that they may study more than one language during their high school career.

Wellness (Culinary Arts, Child Development, Physical Education, Health)

We believe that HKHS Family & Consumer Science students should be given the opportunity to develop skills and attributes that will help them become responsible, functioning members of society. In a variety of settings, we strive to develop intellectual curiosity and specialized knowledge that will prepare students for roles as parents, workers, and caring citizens. We also believe that Family & Consumer Science courses encourage the development of interpersonal and employment skills necessary for success in the workplace. Students learn to make critical judgments, construct and implement ideas, and apply knowledge gained in other disciplines. The Family & Consumer Science Department is made up of two programs: Culinary Arts and Child Development.

Culinary Arts

Welcome to a world of sizzling skills, mouthwatering creations, and endless opportunities! High school cooking classes offer more than just recipes—they're a gateway to mastering essential life skills, exploring new cultures, and sparking creativity in the kitchen. Whether you dream of becoming a professional chef, want to impress family and friends with your culinary talents, or simply aim to prepare healthy meals, these classes provide the tools and inspiration to make it happen.

Step into the kitchen and discover how cooking can transform your confidence, open doors to exciting careers, and turn everyday ingredients into extraordinary experiences.

The hands-on nature of the courses calls for a kitchen designed for multiple groups to do the same type of things at the same time. 4-5 identical kitchen setups with new equipment is essential.

Child Development

The Child Development program prepares students for careers working with children, education, health care, and/or social work. Students explore the different stages of early childhood. Students also observe and interpret the behavior of young children. Students develop themselves as caregivers as they teach and interact with children in the district-run daycare facility.

The classes work closely with the daycare, so they should be in close proximity to each other and allow for flexible seating to accommodate the drastic difference in size when hosting daycare students in the room.

PE/Health

We believe the Haddam Killingworth High School Wellness Department has the responsibility to provide each student the opportunity to learn how to live a healthier lifestyle. We offer courses that allow students to grow physically, mentally, socially, and emotionally. This program is designed to encourage students to choose wellness as a lifelong goal. The key to

achieving this goal is the development of individual decision-making skills that involve real issues facing students and the community. We promote sportsmanship, cooperation, and respect for self and others while challenging students to be actively engaged.

Physical Education

Our PE classes aim to help students find both fitness and competitive physical activities that they will enjoy and pursue throughout their lifetime. These include racquet/net sports inside and out, invasion games, weight lifting, cardiovascular training, leisure activities, recreational sports, and self created or modified activities. Students work in small groups to master skills and strategize in competitions.

Having locker rooms that connect to the gym, windows between an adjacent weight/fitness room, and PE teacher offices all on the same floor/level would allow for better supervision, smoother transitions, and more time on task. Having flexibility in the use of the gym and weight room with the vision of all areas with glass walls and see-through gym dividers would allow students to choose the activity they would like to pursue and do so in a safe and supervised environment. Having basketball courts outside, and access to fields is also important to allow for choice and options in physical activity outdoors.

Health

Students learn by experiencing. The skills-based health courses utilize stress-relieving activities and could benefit from a quiet and open classroom (yoga/dance/wrestling room) along with flexible seating options to allow for groups to work on visual projects together.

Fine Arts

At Haddam Killingworth High School, the Fine Arts program is a cornerstone of our commitment to fostering creativity and critical thinking in students. With a diverse array of offerings, including Concert Band, Concert Choir, Piano, Guitar, UConn ECE courses in Music Theory and Music History, Drawing, Painting, Ceramics, Photography, Portfolio Honors, and AP Art, our program provides students with opportunities to explore and refine their artistic talents. To fully support this vibrant program, our long-range educational plan emphasizes the need for dedicated, modern classroom spaces that are safe for artistic risk-taking and designed to inspire creativity. These spaces will allow students to explore, practice, and nurture the habits that will shape them into thoughtful and imaginative adults who engage with the arts as both consumers and producers. By investing in facilities that reflect the importance of the Fine Arts, we aim to prepare our students to contribute meaningfully to the cultural and creative landscape of the future.

Athletics

The Athletic Department strives for excellence by providing opportunities for students to participate in athletic programs that are designed to develop meaningful standards of athletic performance, leadership, community engagement and appropriate conduct within the educational and social environments of Regional School District 17. Our community takes great pride in our strong legacy of demonstrating good sportsmanship, character, and determination on and off the field.

We offer a wide variety of sports at the varsity (28) and sub varsity levels (13). These programs are a complement to the overall educational program.

Social and Emotional Learning (SEL)

The HKHS School Counseling Department believes that all students should be able to learn in a safe and inviting environment. The School Counseling office should be a welcoming place in which students feel comfortable building trusting relationships with their School Counselors. The Counseling Office should allow for privacy and confidentiality, including both access to the office itself and within the Counseling suite. The need for privacy should be balanced with an open and flexible setting that allows students to address a range of needs related to academic and post-secondary planning. This would include a career center and meeting room(s). The Counseling Office should be in an easily accessible place to students and allow for connection to the rest of the school, including the Health Office and Main Office.

Instructional Design

RSD17 provides all students with a high-quality education that prepares them for college, career, and citizenship. To achieve this mission, we ensure that every classroom is a place where students are engaged in rigorous and relevant learning tasks, supported by effective and caring teachers, and challenged to meet high expectations. This is our vision of instruction, and it is based on the instructional core framework that emphasizes the interrelatedness of the teacher, the student, and the curriculum around a task. Our work in developing this vision incorporated elements of our VoG, SOP, District Values, and Theory of Action, which were created by our teachers and educational leaders. It drives professional reflection, learning, and growth.

Teachers create a supportive environment that encourages academic risk-taking and builds positive relationships. Using highly reliable research-based instructional practices aligned to standards, teachers deliver rigorous and relevant instruction. They monitor student understanding, provide timely and constructive feedback, ask a range of questions, facilitate respectful discourse, scaffold, and adjust instruction to optimize student outcomes.

In RSD17, students plan, question, collaborate, and create to construct meaning within the learning task. Students experiment, take risks, revise their thinking, advocate, and persevere with difficult tasks, exhibiting stamina to deepen their understanding of skills and content. Students take pride in their work and celebrate their own achievements and those of their peers.

Tasks are rigorous, relevant, engaging, and accessible to all students. They provide opportunities for universal access, collaboration, and multi-sensory experiences. Open-ended tasks that support choice, risk-taking and inquiry allow students to create, set goals, and self-evaluate.

Our students are challenged to learn new content, and apply their knowledge to various circumstances. They have a wide array of subjects to demonstrate their understanding and the culminating project is their Senior Learning Digital portfolio. Every senior presents their

portfolio to a panel of teachers. During these presentations they discuss their growth in each learning expectation since their first day of high school as a freshman.

Enrollment Data and Proposed Project Capacity

A 10-year enrollment projection was conducted by McKibben Demographic Research, LLC, an independent firm hired by Region 17 Public Schools. For purposes of grant applications, the State of Connecticut reviews the enrollment data for the 8 years starting with the year of the application submittal. According to the study the school will enroll students in grades 9-12th grade and enrollment per the updated enrollment projections will be the highest in the year 2032-33. The projected enrollment for the 2032-33 school year for Haddam Killingworth High School is 532.

Building Systems

Security	<p>An electronic security system, including cameras and state-of-the-art entry security, will be installed in the school. The school will be designed to prevent access to most instructional areas when community events take place during non-school hours. The project will be coordinated with District and Town leadership security goals in keeping with the All-Hazards School Security and Safety Plan for Haddam Killingworth High School.</p> <p>The school must also comply with school safety infrastructure criteria as determined by the Connecticut School Building Projects Advisory Council. Per Connecticut General Statutes:</p> <p>§ 10-292r. School safety infrastructure criteria. (a) <i>The School Building Projects Advisory Council, established pursuant to section 10-292q, shall periodically review and update, as necessary, school safety infrastructure criteria for school building projects awarded grants pursuant to this chapter and the school security infrastructure competitive grant program, pursuant to section 84 of public act 13-3*. Such school safety infrastructure criteria shall conform to industry standards for school building safety infrastructure and shall address areas including, but not be limited to, (1) entryways to school buildings and classrooms, such as reinforcement of entryways, ballistic glass, solid core doors, double door access, computer-controlled electronic locks, remote locks on all entrance and exits and buzzer systems, (2) the use of cameras throughout the school building and at all entrances and exits, including the use of closed-circuit television monitoring, (3) penetration resistant vestibules, and (4) other security infrastructure improvements and devices as they become industry standards.</i></p>
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Technology	<p>Since technology systems evolve rapidly, systems installed as part of the technology component will be released after the main building to ensure access to the latest products. A wide-area network (WAN) will be installed, and the building will be networked to the network policy server (NPS). Wireless Access Points (WAPs) will be installed throughout the entire school. The new School may serve as a WAP for the community.</p> <p>Ethernet shall be CAT6 or better, providing 1 GB to desktop and 10GB trunks to all interconnections to all the data closets. Drops in the ceiling for wireless APs should be installed for support of the wireless infrastructure. All assembly areas such as the Gym, MPR, and LMC shall have a minimum of three ceiling/wall mounted drops for wireless APs.</p>
Public Address	<p>The building's public address system will be comprehensive, and the infrastructure installed with the building. It will be completed as part of the technology component of the project and will incorporate internal building communications as well as external communications. Concurrently, the systems for the phones, clocks, and data/voice/video will be developed.</p>
Phone System	<p>A comprehensive phone system will be integrated with the technology component of the project, and phones will be installed throughout the facility. All support and instructional spaces will be included.</p>
Clocks	<p>Clocks, like the phone system, will be integrated into the technology component of the project. All support and instructional spaces will be included.</p>
Building Envelope	<p>New portions of the building will be insulated in conformance with current Codes and Connecticut High-Performance Building Standards and shall be protected by a continuous layer of air and vapor barriers tied into the roof membrane and associated flashings. Any existing portions of the building envelope will be upgraded as feasible. All windows will be replaced.</p>
HVAC	<p>Connecticut High-Performance Building Standards, similar to LEED, will be followed. A new heating, air conditioning, and ventilation system will be installed throughout the building. Heating design shall be 70 degrees, and cooling design shall be 75 degrees.</p> <p>A Building Management System (BMS) shall be installed to control the</p>

	<p>mechanical and selected electrical systems. BMS shall be by the Temperature Control vendor approved by the Owner. The system shall provide temperature control and monitoring for all HVAC systems in the building, shall be programmable for occupied and unoccupied periods, and shall use carbon dioxide sensing to control outside air volume. The BMS shall communicate directly to the district's central system, with off-site alarming capability.</p>
Automatic Fire Suppression & Fire Alarm	<p>The building will be equipped throughout with a sprinkler system in conformance with NFPA 13, 20 & 24. A fire pump with generator backup will be provided if existing water pressure is insufficient. A new addressable, speaker-type fire alarm system will be provided in compliance with Code and ADA requirements, tied into the sprinkler system.</p>
Plumbing	<p>Plumbing fixtures shall be low flow, energy efficient, and ADA compliant. Each drinking fountain location will include at least one bottle filler. Grease waste from the kitchen shall be piped to a direct-buried grease interceptor outside the building. Waste leaving the grease interceptor shall be tied back into the sanitary pipe leaving the building. All floor drains shall be self-priming.</p>
Electrical	<p>The building electrical service shall be capable of meeting the needs of the building and site. Provide a backup generator if a fire pump is required. If a backup generator is not required nor provided, battery backup will be provided for emergency systems via inverters. If a generator is not provided, include an automatic transfer switch to allow key systems, such as heating for freeze protection, to function during an extended power outage with the use of a temporary generator.</p> <p>The building's electrical and structural systems will be designed to accommodate rooftop photovoltaic solar panels. Roof load designs will allow for a ballasted panel system to reduce rooftop penetrations.</p> <p>Lighting shall be high-efficiency LED, designed to promote an optimal learning environment, with ample low-glare illumination. Lighting shall use motion sensors and automatic dimming for daylight harvesting.</p>
Acoustics	<p>Per Connecticut State Building Code, for new construction the building must comply with ANSI A117.1 Section 808, "Enhanced Acoustics for Classrooms." Reverberation time will be limited in accordance with this standard, and wall partitions shall have STC ratings as needed to keep classroom ambient sound levels from sources outside the classroom to 35 dBA and 55 dBC. All wall partitions separating spaces</p>

	shall extend to the deck above. All spaces are considered to have acoustic separation. Acoustical finishes and treatments will be used as needed throughout the school's interior.
Renovated Spaces	All discontinued and abandoned systems, including but not limited to HVAC, plumbing, and all types of high- and low-voltage wiring, shall be completely removed from renovated areas. All holes and previous penetrations shall be sealed. Wall partitions shall be extended to deck if needed for room separation. All areas of staining or indication of previous water damage shall be investigated and repaired.

Interior Building Environment

The school design shall incorporate two main entrances that are secure and inviting and will function as the primary entry for all visitors. One will be located at the High School and one at the middle school. These entrances shall incorporate a vestibule with locking at the inner and outer doors, adjacent to the secure lobby of the administrative wing. The entry sequence shall include checkpoints at the outer vestibule door, at the connection between the vestibule and the secure lobby, and then from the lobby into the building. Civic spaces, such as the Gymnasium and Cafeteria, will be close to the main entrances. Doorways in corridors shall be positioned to maximize the lock-off capability of academic areas for after-hours events in the building's more public areas.

All spaces will be optimized for 21st-century learning, with ample power and technology receptacles, and interactive displays on teaching walls, in conference rooms and in larger office spaces. Permanent casework, including upper and lower cabinets with solid surfacing countertops, will be incorporated into classroom spaces to provide active storage. Furniture will be selected for flexibility and mobility. Furniture systems shall be easy to configure into multiple arrangements to accommodate group learning, traditional rows for testing, seminar-style, or a hybrid.

Classroom placement will prioritize access to natural light, as well as regular, consistent shape and size to allow for future flexibility. All windows below head height will receive roller shades, with the sun-filtering fabric of sufficient thickness to obscure views or black-out shades. Door locking and hardware will conform to District standards. All classrooms must lock easily and quickly and shall be equipped with vision panels with shades or security shutters. Building exits are not required to function as entrances will receive exit-only hardware; entrances will receive card readers. Larger areas will be designed for lockdown, either with magnetic hold-opens releasing doors on lockdown or through other electronic means. The building will be fully accessible, with ADA compliance throughout.

Finishes will be selected for ease of maintenance, durability, and aesthetics. No wax flooring will be used; all finishes will be reviewed with maintenance staff. Concrete masonry construction is favored for corridors; if this is not feasible, durable wainscoting must be provided. All drywall in areas used by students shall be impact-resistant high abuse type. Toilet rooms shall have tile on floors, wet walls and epoxy paint on non-tiled walls.

The development of this educational specification points to incorporating both a middle and high school within the same building. Spaces beyond the classrooms are also diagrammed and summarized in the attached matrix for all educational spaces. The following is a general description of each space:

Academic Core Programs approximately 33,100 sq. ft.

26 – Twenty-six Academic Core Classrooms, each approx. 800 sq. ft.

- 1 teaching station per classroom: Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 24 students in each classroom
- Worktable for small group instruction
- Flexible seating
- Cabinets for secured storage and project display/storage for learning materials
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic whiteboards and tackboards
- Luxury vinyl tile/rubber high-density flooring and base and scrubbable painted walls with acoustic ceilings
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse with auxiliary HDMI input
- Aux HDMI input

3 – Three Science General/Physics Classrooms/Labs -1,200 sq. ft. each

- Comfortable chairs/lab tables to accommodate up to twenty-four (24) students
- Teacher desk/chair 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Peninsula lab stations located in the back of the room
- Built-in counters on one wall with adjustable shelving below
- Sink, soap, towel dispenser
- Secured storage for science materials and equipment
- Project storage for student work
- Cabinets for secured storage and project display/storage for learning materials
- Electrical convenience power and USB charging outlets at lab stations
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Gas and fume hoods
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eyewash and emergency showers where applicable
- One Lab station with a sink to serve as a demonstration station
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall

- Magnetic whiteboards and tackboards
- Luxury vinyl tile/rubber high-density flooring and base and vitreous painted walls with acoustic ceilings
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

2 – Two Science Chemistry Classrooms/Labs -1,200 sq. ft. each

- Comfortable chairs/lab tables to accommodate up to twenty-four (24) students
- Teacher desk/chair 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Built-in counters on one wall with adjustable shelving below
- Sink, soap, towel dispenser
- Peninsula lab stations located in the back of the room
- Secured storage for science materials and equipment
- Project storage for student work
- Cabinets for secured storage and project display/storage for learning materials
- Electrical convenience power and USB charging outlets at lab stations
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Gas and fume hoods
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eyewash and emergency showers where applicable
- One Lab station with a sink to serve as a demonstration station
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology
- Magnetic white boards and tack boards
- Luxury vinyl tile/rubber high density flooring and base and vitreous painted walls with acoustic ceilings
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

2 – Two Science Biology Classrooms/Labs -1,200 sq. ft. each

- Comfortable chairs/lab tables to accommodate up to twenty-four (24) students
- Teacher desk/chair 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Built-in counters on one wall with adjustable shelving below
- Sink, soap, towel dispenser
- Secured storage for science materials and equipment
- Project storage for student work
- Cabinets for secured storage and project display/storage for learning materials
- Electrical convenience power and USB charging outlets at lab stations
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP)

in each classroom

- Gas and fume hoods
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eyewash and emergency showers where applicable
- One Lab station with a sink to serve as a demonstration station
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic whiteboards and tackboards
- Luxury vinyl tile/rubber high-density flooring and base and vitreous painted walls with acoustic ceilings
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

1 – One Science Greenhouse, 300 sq. ft.

- Benches

3 – Three Science Prep Workrooms 300 sq. ft. each

- Built-in counters on one wall with adjustable shelving below
- Secured storage for science materials and equipment
- Electrical convenience power and USB charging outlets
- Sink, soap, towel dispenser
- Flammable cabinets
- Dishwasher
- Refrigerator
- Luxury vinyl tile/rubber high-density flooring and base and vitreous painted walls

4 – Four Teacher Prep Workrooms/Copy - 400 sq. ft. each

- Desk and chair
- 1 – 4-drawer lockable file cabinets
- Fire-rated student records file storage
- Base and wall cabinet storage
- Bulletin board
- Lockable storage wardrobe
- One (1) computer
- Open shelving
- Table and counter space
- Luxury vinyl-enhanced tile or flooring

4 – Four Bookroom Closets, 200 sq. ft. each

- Built-in shelving to accommodate books
- Luxury vinyl tile/rubber high-density flooring and base and scrubbable painted walls with acoustic ceilings

- Parabolic LED lighting with variable light level switching or addressable.

1 – One In-School Suspension (ISS) Room approximately 300 sq. ft.

- Teacher's desk, chair, 4-drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Space for 6-8 students with handicapped accessibility
- Cabinets for secured storage and project display/storage for learning materials
- Teacher voice module for phone and control of all technology
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Whiteboards and tack boards
- Luxury vinyl tile/rubber high-density flooring and base and vitreous painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer
- 22-inch display • Wireless keyboard/mouse • Aux HDMI input

Special Education 5,400 sq. ft.

5 – Five Special Education Resource Rooms, each approx. 500 sq. ft

- Comfortable chairs/desks/tables to accommodate (15) fifteen (flexible/adaptable/easily movable workstations)
- Teacher desk/chair
- Bookshelves
- Open shelving & storage cabinets
- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling-mounted speakers
- Luxury vinyl-enhanced tile or flooring that allows for easy movement of furniture
- Magnetic whiteboards (wall-to-wall) on the front or side walls
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology
- Bulletin boards lining the back wall
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse
- Parabolic LED lighting with variable light level switching or addressable

1 – One Special Education Transition Program 18-22 yrs. – 800 sq. ft.

- Teacher desk/chair • Bookshelves
- Secured storage for materials
- Comfortable chairs/desks/tables to accommodate ten (10) (flexible/adaptable/easily movable workstations)

- Functional kitchen area with stove, dishwasher, sink, refrigerator, microwave, washer and dryer
- Built-in counters with shelving below around the perimeter of the SLC room
- Interactive LED Panel (at least 75") • Wall/ceiling-mounted speakers
- Vinyl-enhanced tile or flooring that allows for easy movement of furniture
- Magnetic whiteboards (wall-to-wall) on the front or side walls
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology
- Bulletin boards lining the back wall
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input
- Parabolic LED lighting with variable light level switching

1 – One Special Education Life Skills Classroom approximately 1,200 sq. ft.

- Teacher's desk, chair, 4-drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Sinks
- Space for 6-8 students 3 adults
- Cabinets for secured storage and project display/storage for learning materials
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic whiteboards and tackboards
- Luxury vinyl tile/rubber high-density flooring and base and scrubbable painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.
- One (1) teacher computer, 22-inch display

1 – One OT/PT Room – 500 sq. ft.

- parabolic LED lighting with variable light level switching
- Luxury vinyl-enhanced tile flooring
- Shelving for materials and supplies
- platform swing
- crash pads
- Therapy balls
- Trampoline
- Peg board wall
- Sensory tent
- Multiple weight-bearing ceiling attachments for equipment

1 – One Speech and Language Office - 200 sq. ft.

- Teacher's desk, chair, 4-drawer file cabinet, lockable storage/wardrobe cabinet,

- lockable
- Space for 2 to 4 students
- Student table
- Cabinets for secured storage and project display/storage for learning materials
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP)
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic whiteboards and tackboards
- Luxury vinyl tile/rubber high-density flooring and base and scrubbable painted walls with acoustic ceilings
- Parabolic LED lighting with variable light level switching or addressable.

1 – One Special Education Testing Office - 200 sq. ft.

- Desk and chair
- 1 – 4-drawer lockable file cabinets
- Fire-rated student records file storage
- Base and wall cabinet storage
- Student table
- Bulletin board
- Lockable storage wardrobe
- Network copier and fax machine
- One (1) computer
- Table and counter space
- Luxury vinyl-enhanced tile or flooring

Physical Education Approximately – 31,049 sq. ft.

1 – One Field House/2 Gymnasiums 14,874 sq. ft.

High School Gymnasium

- All-purpose wood floor system with essential markings
- Removable protective matting
- One high school competition main basketball court (50'x84') Two cross-courts as well)
- Basketball backboards to be adjustable and swing out/up for non-use.
- Set up for Volleyball with necessary inserts and markings
- Bleacher seating
- Ceiling-mounted air destratification fans
- Sound system
- Ropes, nets, and basketball hoops
- Suspension equipment and/or storage rooms for pads
- Room dividing curtain/mesh to bisect the space for dual activities
- High output LED lighting for efficiency and color correction for multipurpose activities.
- Acoustic wall panels
- 1 Electronic scoreboard

- 1 Digital messaging board

Middle School Gymnasium

- All-purpose wood floor system with essential markings
- Removable protective matting
- One main basketball court (45'x74') Two cross-courts as well
- Basketball backboards to be adjustable and swing out/up for non-use.
- Set up for Volleyball with necessary inserts and markings
- Bleacher seating- limited
- Ceiling-mounted air destratification fans
- Sound system
- Ropes, nets, and basketball hoops
- Padding on walls and floor for physical education programs
- Suspension equipment and/or storage rooms for pads
- Room dividing curtain/mesh to bisect the space for dual activities
- High output LED lighting for efficiency and color correction for multipurpose activities.
- Acoustic wall panels
- 1 Electronic scoreboard
- 1 Digital messaging board

1 – One Auxiliary Gymnasium - 2,700 sq. ft.

- All-purpose wood floor system with essential markings
- Removable protective matting
- One main basketball court (45'x74') Two cross-courts as well
- Basketball backboards to be adjustable and swing out/up for non-use.
- Set up for Volleyball with necessary inserts and markings
- Ceiling-mounted air destratification fans
- Sound system
- Ropes, nets, and basketball hoops
- Padding on walls and floor for physical education programs
- Suspension equipment and/or storage rooms for pads
- High output LED lighting for efficiency and color correction for multipurpose activities.
- Acoustic wall panels

1 – One Training Room, approx. 300 sq. ft.

- Sink
- Desk and chair
- Treatment tables
- Ice machine
- Cabinets for secured storage and project display/storage for learning materials
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Magnetic whiteboards and tackboards
- Luxury vinyl tile/rubber high-density flooring and base and scrubbable painted walls

with acoustic ceilings

- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse with auxiliary HDMI input

1 – One multi-use P.E. (Weight Room), approx. 1,200 sq. ft.

- Sink
- Standard fitness room equipment
- Racks of weights
- Pull-up bars
- Cabinets for secured storage and project display/storage for learning materials
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic whiteboards and tackboards
- Mirrored walls
- Luxury vinyl tile/rubber high-density flooring and base and scrubbable painted walls with acoustic ceilings
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse with auxiliary HDMI input

2 – Two Student Locker Rooms, 500 sq. ft. each

- Lockers
- Benches

2 – Two Student Team Rooms, 300 sq. ft. each

- Lockers
- Benches
- Whiteboard

2 – Two Student Restrooms/Showers, 300 sq. ft. each

- Benches
- Whiteboard

1 – One PE Equipment Storage Room approximately 350 sq. ft.

- Sealed concrete floor
- Minimum 10-foot ceiling to maximize storage

2 – Two P.E Offices, approximately 100 sq. ft. each

- Teacher's desk, chair, 4-drawer file cabinet, lockable storage/wardrobe cabinet,
- Luxury vinyl-enhanced tile or flooring
- One (1) teacher computer with a 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

2 – Two PE Staff Showers approximately 80 sq. ft. each

- Showers
- Restrooms

1 – One Athletic Equipment Storage Room of approximately 500 sq. ft.

- Sealed concrete floor
- Minimum 10-foot ceiling to maximize storage

1 – One PE Laundry approximately 60 sq. ft. each

- Washer and Dryer

1 – One Pool approximately 7,315 sq. ft.

1 – One Pool Spectator Area of approximately 1,190 sq. ft.

Food Services – 7,270 sq. ft.

1 – One Student Dining Area of approximately – 4,500 sq. ft.

Typical acoustical treatments for the walls to dampen sound are needed. The cafeteria should be constructed adjacent to the kitchen. Multiple student traffic flows should be considered in the placement of the food serving line. The placement of student restrooms in the vicinity of the cafeteria should be considered in the design to provide students convenience.

- The room should accommodate risers with handicapped accessibility
- Space to seat approximately 200 students per lunch wave in 3 waves
- Lighting and sound systems to support the instructional use of the space
- State-of-the-art public technology including a Smart TV
- Acoustical treatment of wall and ceiling to support the use of the space
- Resilient tile flooring durable and washable, with a slip-resistant finish
- Provide windows with abundant natural light and create relationships to exterior
- Provide exterior dining
- Scrubbable painted or masonry walls for durability and high lay-in ceilings, durable and washable
- High output LED lighting for efficiency and color correction for dining and multipurpose activities
- Portable (fold in half on wheels) cafeteria round tables
- Convenience power for cleaning equipment and staff/visitor laptops
- Numerous WAPs for LAN and internet use by staff, students, and visitors
- Several Monitors throughout space
- 4 Hand washing stations
- 2 microwave ovens for student use

1 – Staff Dining Area, approximately – 500 sq. ft.

- Tables and chairs for up to thirty (30) staff members

- Cabinets and countertop with sink
- Microwave oven
- Refrigerator
- Dedicated electrical circuits for refrigerator and microwave
- Interactive LED Panel (at least 75")
- Wall/ceiling-mounted speakers
- Vinyl-enhanced tile or flooring that allows for easy cleanup
- Magnetic whiteboards
- Bulletin boards

1 – Kitchen Preparation Area - 1,200 sq. ft

- Two (2) - Double sink preparation tables each with one (1) standard faucet and one (1) pre-rinse faucet
- Two (2) – Warmers
- Two (2) - Double Deck Convection Ovens
- One (1) - Combi-Oven
- One (1) - Convection Steamer
- Two (2) - Pasta Kettle – 30 gallons
- Two (2) - 12- Burner Range
- Three (3) compartment sink assembly with drain boards for pot and pan washing; each compartment shall measure 27" x 27" x 16" deep; a pre-rinse spray assembly required at one (1) sink compartment
- Recycling center for paper, liquids etc.
- 4 to 8 hot holding boxes
- Two (2) ice-cream freezers
- Ice machine
- Three (3) Prep tables
- Four (4) warming boxes
- Express Stations for self-serve foods and dry display snacks
- Cashier stations strategically located at the exit from the Servery
- Mobile condiment stations to be located at the exit of the Servery
- Grease-trap to be located outside of the building for ease of maintenance
- Utility Distribution System with quick disconnect devices for all services
- Walk-in refrigerators and freezers will require backup generator power; audio/visual temperature alarm; refrigeration control alarm; temperature alarms to be wired to the "Building Monitoring System"
- Water conservation methods
- Provide High-Efficiency Energy Star Label Equipment & Lighting
- Exhaust hoods: Demand Control Ventilation Package
- Temperature maintenance, water filtration and sanitation to promote food safety
- Exterior in-line grease trap to conform to FOG Program
- Linked to the building management system for notification of temperature failure
- Connected to the emergency generator in case of power failure

1 – One Kitchen: Dry Food Storage: 300 sq. ft.

- Shelving designed to accommodate canned goods and various non-refrigerated food items

1 – One Kitchen: Cooler/Freezer: 300 sq. ft.

1 – One Kitchen: Dish Washing – 200 sq. ft.

- Dishwasher

1 – One Restroom/Locker Room: 120 sq. ft.

- Toilet room with sink
- 8 lockers for personal items

1 – One Food Service's Office: 150 sq. ft.

- Desk/chair
- Visitor seating
- One (1) lockable teacher storage wardrobe
- One (1) lockable four-drawer filing cabinet
- Vinyl-enhanced tile
- Magnetic whiteboard
- Bulletin boards
- One (1) computer
- Adjacent to the kitchen area

Arts and Music Programs – 6,100 sq. ft.

All the following spaces need to be designed for maximum sound attenuation

1 – One Instrumental Band Room – 1,200 sq. ft.

- Sixty-five (65) performer chairs
- Sixty-five (65) music stands
- Wenger flip forms for thirty (30) students
- Five (5) Chair Move and Store Carts
- Built-in counters/cabinets with storage above and below
- Teacher's desk, chair, 4-drawer file cabinet, lockable, storage/wardrobe cabinet
- Incorporate new music technologies, WAP
- Electrical convenience power
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic whiteboards and tackboards
- One (1) teacher computer
- One (1) teacher desk
- Sink
- Instrument closed storage
- Appropriate sound management materials on walls and floor
- Resilient tile floor,

- Acoustic ceilings and parabolic LED lighting with variable light level switching

1 – One Chorus Room – 1,200 sq. ft.

- Sixty (40) performer chairs
- Wenger flip forms for thirty (30) students
- Three (3) Chair Move and Store Carts
- Built-in counters/cabinets with storage above and below
- Teacher's desk, chair, 4-drawer file cabinet, lockable, storage/wardrobe cabinet
- Incorporate new music technologies, WAP
- Electrical convenience power
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic whiteboards and tackboards
- One (1) teacher computer
- One (1) teacher desk
- Electronic piano
- Music closed storage for instruments
- Appropriate sound management materials on walls and floor
- Resilient tile floor,
- Acoustic ceilings and parabolic LED lighting with variable light level switching

1 – One Piano Guitar Lab, approx. 500 sq. ft.

- 1 teaching station per classroom: Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Cabinets for secured storage and project display/storage for learning materials
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Magnetic whiteboards and tackboards
- Electrical convenience power
- Luxury vinyl tile/rubber high-density flooring and base and scrubbable painted walls with acoustic ceilings
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse with auxiliary HDMI input

1 – One Music Storage Closet, 300 sq. ft. each

- Built-in shelving to accommodate instruments

1 – One Art Room - Ceramics approximately 1,200 sq. ft.

- Must have ample natural light
- Tables and chairs
- Teacher desk/chair
- 4-drawer file cabinet, lockable, storage/wardrobe cabinet

- Vertical storage with shelves and doors
- Drainage in floor
- Built-in counter space with storage above and below
- Wall/ceiling-mounted speakers
- Vinyl-enhanced tile or flooring that allows for easy cleanup
- Walls should be functional workspaces for showcasing student work Multiple magnetic whiteboards (wall-to-wall) on front and side walls
- Bulletin boards lining the back wall
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input
- Include ample storage space within the room
- 4- free standing deep utility sinks with sediment traps dispersed throughout the classroom
- Electrical convenience power throughout the perimeter.
- Uninterrupted flat countertop space with bottom storage cabinets and open shelving including deep and wide drawer shelving with suspension hardware
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Integrated modern technology, WAP
- Dedicated ventilation
- Shelving should be wide and sturdy to support various art supplies

1 – One Kiln Room, 200 sq. ft.

- Large Kiln
- Sturdy rack style shelving for student projects
- Electrical disconnect for Kiln
- Luxury vinyl enhanced tile or flooring

1 – One Art Room – Drawing and Painting approximately 800 sq. ft.

- Must have ample natural light
- Four (4) person tables with chairs
- Teacher desk/chair
- 4-drawer file cabinet, lockable, storage/wardrobe cabinet
- Vertical storage with shelves and door
- Flammable cabinet
- Wet canvas storage system
- Vented spray booth
- Mounted drying racks
- Built-in counter space with storage above and below
- Wall/ceiling-mounted speakers
- Vinyl-enhanced tile or flooring that allows for easy cleanup
- Walls should be functional workspaces and for showcasing student work Multiple magnetic whiteboards (wall-to-wall) on front and side walls
- Bulletin boards lining the back wall

- One (1) teacher computer, 22-inch display
- Four to Five student computers
- Wireless keyboard/mouse
- Aux HDMI input
- Include ample storage space within the room
- 2- free standing deep utility sinks with sediment traps dispersed throughout the classroom
- Electrical convenience power throughout the perimeter.
- Uninterrupted flat countertop space with bottom storage cabinets and open shelving including deep and wide drawer shelving with suspension hardware
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Integrated modern technology, WAP
- Dedicated ventilation
- Shelving should be wide and sturdy to support various art supplies

1 – One Art Room – Dark Room approximately 500 sq. ft.

- Must have ample natural light
- Six tables; Twenty-four (24) chairs
- Teacher desk/chair
- Dark Room door
- 4-drawer file cabinet, lockable, storage/wardrobe cabinet
- Vertical storage with shelves and doors
- Built-in counter space with storage above and below
- Wall/ceiling-mounted speakers
- Vinyl-enhanced tile or flooring that allows for easy cleanup
- Walls should be functional workspaces for showcasing student work Multiple magnetic whiteboards (wall-to-wall) on front and side walls
- Bulletin boards lining the back wall
- One (1) teacher computer, 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input
- Include ample storage space within the room
- 2- free standing deep utility sinks
- Electrical convenience power throughout the perimeter.
- Uninterrupted flat countertop space with bottom storage cabinets and open shelving including deep and wide drawer shelving with suspension hardware
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Integrated modern technology, WAP
- Dedicated ventilation
- Shelving should be wide and sturdy to support various art supplies

1 – One Art Storage, 200 sq. ft. each

- Shelving should be wide and sturdy to support various art supplies

Library/Media Center of approximately 4,370 sq. ft.

The Library/Media Center will be designed to become the learning hub of the school. It will continue to be where teachers encourage students to develop a passion for reading. This will also serve as a place where student-centered activities happen with the integration of technology. This area will include a Makerspace that will be welcoming and encourage students to be creative problem-solvers, take risks and think critically. Students will have the opportunity to engage in hands-on activities using various materials as well as the latest technology. The Library/Media Specialist will collaborate with the classroom teachers on various projects and use this space to show students how to locate and evaluate important information.

1 – One Media center/Reading Area/Circulation – 3,000 sq. ft.

- The Circulation Center will be located in the center of the Media Center and adjacent to the workroom and media specialist office
- Minimum of three WAP and some supplemental data jacks located throughout for student access to LAN and internet
- Flexible book shelving that can be reconfigured for a collection of approx. 15,000 volumes with open sight lines possible for optimum adult supervision
- Monitors throughout space.
- Copier
- Rolling bookshelves for a limited collection of books
- Areas with comfortable seating
- Printer
- Bulletin Boards to display student work and promotional materials
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology
- Two (2) staff computers for the circulation desk area
- Desk and chair
- 1 – 4-drawer lockable file cabinets
- Base and wall cabinet storage
- Lockable storage wardrobe
- Network copier and fax machine
- Luxury vinyl-enhanced tile or flooring
- Cabinets with various shelving

1 – One Library/Media Specialist Office– 120 sq. ft.

- 1 teaching station per classroom: Teacher's desk, chair, 4 drawer file cabinet, lockable storage/wardrobe cabinet, lockable
- Table
- Lockable lateral files
- One (1) large wall unit bookcase
- Interactive LED Panel (32-50" display)
- Luxury vinyl-enhanced tile
- Magnetic whiteboard

- Bulletin board
- One (1) computer, 22-inch display
- Aux ports for plugging into a display

1 – Periodical/Student Work Area – 300 sq. ft.

- Soft-seating
- Areas with comfortable seating
- Tables

1 – One TV Studio – 800 sq. ft.

- One (1) table for collaborative work
- Lighting and rigging
- Soundproofing
- Movie Screen/Projector /Speakers
- Cameras, sound/speakers, studio cameras
- Rolling chairs
- Open and closed storage cabinets for props and equipment
- Greenscreen Mac, Teleprompter, amplifier
- Secured storage for materials
- Wall/ceiling-mounted speakers
- Charging station for battery-operated tools
- Vinyl-enhanced tile or flooring that allows for easy cleanup

1 – One Workroom /Storage, 150 sq. ft.

- Built-in shelving to accommodate storage

Career and Technical Education Approximately – 7,050 sq. ft.

1 – One Application Lab/Wood - 1,500 sq. ft.

- Teacher desk/chair and view board
- Rolling toolbox
- Portable drill, grinder, sander, router, skill saw
- Dust collection system
- Overhead door leading to outside
- Door with window for paint room
- Dust collector
- Exhaust for stain room
- Bright LED lighting
- Stationary air compressor with distributed multiple access points
- Built-in counters with shelving below around the perimeter of the room
- Secured storage for materials
- Fume hood
- Flammable cabinets
- Interactive LED Panel (at least 75")

- Three (3) to four (4) outlets on each wall
- Charging station for battery-operated tools
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eyewash and emergency showers where applicable
- Vinyl-enhanced tile or flooring that allows for easy cleanup
- Multiple magnetic whiteboards (wall-to-wall) on front
- Bulletin boards lining the back wall
- One (1) teacher computer • 22-inch display
- DVD/Blu-ray • Wireless keyboard/mouse
- Aux HDMI input
- Racks for plywood and wood storage
- Cabinets and shelving for tool storage and materials supplies

1 – One Application Lab/Auto 1,800 sq. ft.

- Teacher desk/chair (possibly built in to counter area to save space)
- Rolling student tables with built-in seats that fold up
- Large industrial shelving racks
- Rolling wood top workbenches with storage
- Rolling work tables
- Flammable trash cans
- Shelves to store totes of equipment and supplies
- One (1) bay with a lift
- One (1) bay without a lift
- Multi-person group sink
- Tire Rim clamp machine
- Tire balancing machine
- Alignment vehicle lift
- Procut Brake Lathe
- Built-in counters with shelving below around perimeter of the room
- Secured storage for materials
- Teacher laptop cart with battery backup
- Charging station for battery-operated tools
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eyewash and emergency showers where applicable
- One (1) teacher computer • 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

1 – One Application Lab/Metal - 1,200 sq. ft.

- Three (3) large heavy-duty workbenches with vises
- Eighteen (18) stools for workbenches
- Two (2) large welding tables with four (4) rolling, height-adjustable stools
- Two (2) mobile fixture tables for welding and assembly

- Seventy (75) small lockers for student work
- Four (4) tall cabinets for tools, hardware, welding equipment, general supply storage
- Ceiling storage/hoists to store things in the air
- Adjustable teacher chair
- Two (2) large rolling toolboxes for hand tools and layout tools
- Four (4) way switches by all entry doors
- Racks for 10' lengths of bars, tubing, angle iron
- Shelving needed to hold thousands of pounds
- Table for 3 3D Printers
- Space for mobile shelving for VEX parts
- Multi-person sinks
- Built-in counters with shelving below around perimeter of the room
- Secured storage for materials
- Flammable cabinets
- Interactive LED Panel (at least 75")
- Charging station for battery-operated tools
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eyewash and emergency showers where applicable
- Vinyl-enhanced tile or flooring that allows for easy cleanup
- Multiple magnetic whiteboards (wall-to-wall) on front
- Bulletin boards lining the back wall
- One (1) teacher computer • 22-inch display
- DVD/Blu-ray • Wireless keyboard/mouse
- Aux HDMI input
- Cabinets and shelving for tool storage and materials supplies

1 – One Application Lab/ Culinary 600 sq. ft.

- Stainless steel tables and counters
- Gas stoves
- Commercial dishwasher
- Ice machine
- Gas hoods
- Five (5) identical kitchen set ups four (4) kids in a group
- Five (5) sinks for the five (5) stations
- Demo table with mirrors
- Three (3) double-door refrigerators
- Racks for dry goods
- Secure airtight dry storage
- Industrial shelving
- Two (2) convection ovens
- Two (2) burners and a griddle for each of the five (5) work areas
- One (1) double door freezer
- Cabinet storage for all food-related utensils
- Built-in counters with shelving below around the perimeter of the room

- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling-mounted speakers
- Three (3) to four (4) outlets on each wall
- Personal protective equipment (PPE) cabinet,
- Appropriate combustion class fire extinguishers
- Eyewash and emergency showers where applicable
- Vinyl-enhanced tile or flooring that allows for easy cleanup
- Walls should be functional workspaces
- Multiple magnetic whiteboards (wall-to-wall)
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology
- Bulletin boards lining the back wall
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

1 – One Culinary Related Classroom 500 sq. ft.

- Teacher desk/chair
- Flexible seating
- Filing cabinet
- Built-in counters with shelving below around the perimeter of the room
- Secured storage for materials
- Interactive LED Panel (at least 75")
- Wall/ceiling-mounted speakers
- Three (3) to four (4) outlets on each wall
- Personal protective equipment (PPE) cabinet,
- Vinyl-enhanced tile or flooring that allows for easy cleanup
- Walls should be functional workspaces
- Multiple magnetic whiteboards (wall-to-wall)
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology
- Bulletin boards lining the back wall
- One (1) teacher computer
- 22-inch display
- Wireless keyboard/mouse
- Aux HDMI input

1 – One Computer Lab -Engineering - 800 sq. ft.

- Rolling workbenches with storage with built-in power strips
- Countertop area for project work with upper and lower cabinets
- Large cabinets for project storage
- Rolling classroom tables
- Rolling computer chairs

- Rolling toolbox
- Speaker system
- Four (4) way switches by all entry doors
- Bright LED lighting
- VEX Robotics Equipment
- 3D Scanner
- Three (3) 3D Printers
- Computer and countertop horseshoe around outer wall/windows
- Twenty (20) desk stations
- Integrated modern technology with one-to-one devices, Wireless Access Point (WAP) in each classroom
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology on the teaching wall
- Luxury vinyl tile/rubber high-density flooring and base and scrubbable painted walls with acoustic ceilings
- One (1) teacher computer, 22-inch display
- Whiteboards and tackboards
- Wireless keyboard/mouse with auxiliary HDMI input

2 – Two Storage approximately 200 sq. ft. each

- Sealed concrete floor
- Minimum 10-foot ceiling to maximize storage

2 – Two Student Project Storage, 125 sq. ft. each

- Shelving should be wide and sturdy to support various projects

Performing Arts Programs Approximately – 7,702 sq. ft.

1 – One Auditorium approximately 4,927 sq. ft.

- Auditorium seating area sloped/stepped main level
- Provide high-quality variable acoustical environment and production support for music, conferences, lectures, and speakers, with projection
- HVAC equipment to include sound-deadening air-handling equipment
- Front projection system with motorized screen
- Multicam video recording
- Middle aisle seating arrangement
- Stage should be accessible to all from the auditorium
- Stage to accommodate 150 performers in chairs with music stands
- Ceiling cloud structures adjustable for acoustics control
- Fire curtain, and all applicable safety standards
- Moveable side curtains
- Stage lighting and sound systems appropriate for the size of the stage and auditorium Control Room – connectivity to all built-in lighting, video recording, and sound production within the auditorium, and music classrooms; storage for microphones and computers used in productions.

1 – One Stage (including wing space) – 2,125 sq. ft.

- Seventy-five (75) performer chairs (stackable/storable)
- Seventy-five (75) music stands
- Stage should be accessible to all from the auditorium
- Stage to accommodate 75 performers in chairs with music stands
- Ceiling cloud structures adjustable for acoustics control
- Fire-rated proscenium curtain, and all applicable safety standards
- Moveable side curtains
- Stage lighting and sound systems appropriate for the size of the stage and auditorium

1 – One Control Room (Auditorium) - 125 sq. ft.

- Connectivity to all built-in lighting, video recording, and sound production within the auditorium, and music classrooms;
- With storage for microphones and computers used in productions.
- Control Booth to support performance and recording functions

1 – One Make-up/Dressing Room - 150 sq. ft.

- Built in Shelving with counters
- Table and chairs
- Mirrored walls
- Computer

1 – One Costume Storage - 75 sq. ft.

- Built-in shelving to accommodate storage

1 – One General Performing Arts Storage - 300 sq. ft.

- Built-in shelving to accommodate storage

Administrative and Support Spaces 3,975 sq. ft.

Main administrative offices will be located at the front, adjacent to the main entry and connected by a security vestibule, allowing visually controlled access to the building through the administration reception waiting area. A dedicated 911 phone shall be located in the main office for the purpose of informing office staff if 911 is called from any facility phone. All exit/entry doors have electronic hardware that will activate on notification from striking of a panic button. Glazing will be minimal and secure.

1 – One Main Office: Reception, Secretarial area, Storage approximately 600 sq. ft.

- Two (2) Secretarial work stations behind the main counter
- Lockable storage wardrobes
- Two (2) lockable four-drawer filing cabinets
- Fire-rated student file storage
- Base and wall cabinet storage
- Network copier and fax machine
- Kitchenette

- Bulletin boards
- Luxury vinyl-enhanced tile or flooring
- One (1) computer per secretary/clerk
- Electronic security system
- Reception area to have 6 comfortable chairs for visitors
- Bulletin boards
- Luxury vinyl-enhanced tile or flooring
- Electronic security system

1 – One Principal's Office– 250 sq. ft.

- Desk and chair
- Table
- Seating for six (6)
- Lockable storage/wardrobe
- Lockable lateral files
- One (1) large wall unit bookcase
- Interactive LED Panel (32-50" display)
- Security "panic" button with a dedicated phone line
- Luxury vinyl-enhanced tile
- Magnetic whiteboard
- Bulletin board
- One (1) computer
- Aux ports for plugging into a display

1 – One Assistant Principal's Office - 200 sq. ft.

- Table
- Desk and Chair
- Seating for six (6)
- Lockable storage/wardrobe
- Lockable lateral files
- One (1) large wall unit bookcase
- Interactive LED Panel (32-50" display)
- Security "panic" button with a dedicated phone line
- Luxury vinyl-enhanced tile or flooring
- Magnetic whiteboard
- Bulletin board
- One (1) computer
- Aux ports for plugging into the display

1 – One Athletic Director's Office - 200 sq. ft.

- Table
- Desk and Chair
- Seating for six (6)
- Lockable storage/wardrobe
- Lockable lateral files

- One (1) large wall unit bookcase
- Interactive LED Panel (32-50" display)
- Security "panic" button with a dedicated phone line
- Luxury vinyl-enhanced tile or flooring
- Magnetic whiteboard
- Bulletin board
- One (1) computer
- Aux ports for plugging into the display

1 – Security Office - 100 sq. ft.

- Desk and chair
- 1 – 4-drawer lockable file cabinets
- Fire-rated student records file storage
- Base and wall cabinet storage
- Bulletin board
- Lockable storage wardrobe
- One (1) computer
- Luxury vinyl-enhanced tile or flooring

1 – One Conference room – 300 sq. ft.

- Conference table
- Seating for fifteen (15)
- Credenza
- Interactive LED Panel (32-50" display)
- Aux ports for plugging into the display
- Magnetic whiteboard
- Luxury vinyl-enhanced tile or flooring
- Bulletin board

1 – One Mail/Work/Copy Room – 200 sq. ft.

- Conference table and chairs
- Credenza,
- Interactive LED Panel (32-50" display)
- Aux ports for plugging into the display
- Magnetic whiteboard
- Luxury vinyl-enhanced tile or flooring
- Bulletin board
- Mailboxes
- Network Copier
- Table and counter space

1 – One Counselor Waiting Area – 150 sq. ft.

- Chairs for four (4)

4 – Four Counselor Offices - 125 sq. ft. each

- Desk and chair
- 1 – 4-drawer lockable file cabinets
- Fire-rated student records file storage
- Base and wall cabinet storage
- Student table
- Bulletin board
- Lockable storage wardrobe
- One (1) computer
- Table and counter space
- Luxury vinyl-enhanced tile or flooring

1 – One School Social Worker Office - 150 sq. ft.

- Desk and chair
- 1 – 4-drawer lockable file cabinets
- Space for 7 to 8 students
- Base and wall cabinet storage
- Student table and chairs
- Bulletin board
- Lockable storage wardrobe
- One (1) computer
- Table and counter space
- Luxury vinyl-enhanced tile or flooring

1 – One Psychologist Office - 125 sq. ft.

- Desk and chair
- 1 – 4-drawer lockable file cabinets
- Fire-rated student records file storage
- Base and wall cabinet storage
- Student table
- Bulletin board
- Lockable storage wardrobe
- Network copier and fax machine
- One (1) computer
- Table and counter space
- Luxury vinyl-enhanced tile or flooring

1 – One College Career Center – 400 sq. ft.

- Conference table and chairs
- Credenza,
- Interactive LED Panel (32-50" display)
- Aux ports for plugging into the display
- Magnetic whiteboard
- Touchscreen, Smartboard, or Overhead projection racks with screen, most current school technology

- Luxury vinyl-enhanced tile or flooring
- Bulletin board
- Network Copier
- Two (2) computers
- Table and counter space

1 – One Health Suite includes a Nurse’s Office, approximately 800 sq. ft.

- One (1) desk with chairs
- One (1) computer
- Built-in counters with shelving below around the perimeter of the room
- Multiple file cabinets Two (2) four-drawer; One (1) two-drawer
- One (1) double cabinet (full size)
- One (1) double cabinet (half-size)
- Two (2) Double-locked medicine cabinets
- One (1) locking wall cabinets
- Large closet with shelving and doors
- Refrigerator
- Ice maker
- Two (2) Sinks with hot and cold water, soap, and towel dispenser
- Microwave
- Scale
- 4 chairs
- Exam room
- Bathroom
- Three (3) cots
- Privacy curtains
- One (1) wheelchair
- Eye-wash station
- Vinyl-enhanced tile
- One (1) large bulletin board
- Centrally located adjacent to the main office

Building Services and Core Area – 6,675 sq. ft.

1 – One Facilities Office – 100 sq. ft.

- Desk and chair
- Lockable storage/wardrobe
- Lockable lateral files
- One (1) large wall unit bookcase
- Interactive LED Panel (32-50” display)
- Luxury vinyl-enhanced tile
- Magnetic whiteboard
- Bulletin board
- One (1) computer
- Aux ports for plugging into the display

1 – General Building Storage – approximately 800 sq. ft.

- Steel storage shelves
- Lockable tool cabinets
- Wall-mounted tool hanging system

3 – Men’s Public Toilets – 150 sq. ft. each

3 – Women’s Public Toilet – 150 sq. ft. each

4 – Boy’s Toilet Rooms – 200 sq. ft. each

4 – Girl’s Toilet Rooms – 200 sq. ft. each

6 – Staff Toilet Rooms – 75 sq. ft. each

3 – All-inclusive Toilet Rooms – 75 sq. ft. each

1 – Custodial Office – 100 sq. ft.

- Two (2) desk/chair
- Workstation table
- Luxury vinyl-enhanced tile
- Magnetic whiteboard
- Bulletin board
- One (1) computer
- Aux ports for plugging into the display

5 – Custodial Closets – 50 sq. ft. each

1 – Mechanical and Water Service Room – 600 sq. ft.

1 – Fire Sprinkler Room – 300 sq. ft.

1 – Main Electrical Room – 300 sq. ft.

2 – Electrical Closets – 150 sq. ft. each

1 – MDF Room – 300 sq. ft.

1 – IDF Room – 150 sq. ft.

1 – Delivery and Receiving - 300 sq. ft.

Site Development

The design of the school should include concrete sidewalks to be constructed around the perimeter of the building. Concrete curbs should be used adjacent to those sidewalks. An entry plaza will be constructed at both main entrances consisting of scored concrete or pavers, trees, benches, a flagpole and an electronic marquee for school notifications. Full-cutoff site lighting will be provided throughout the parking lots and along pedestrian ways around and into the building.

Sustainability

All State-funded schools with renovation budgets in excess of \$2 million dollars or new construction budgets in excess of \$5 million dollars must comply with Connecticut High Performance School Standards, a checklist-based system with mandatory and optional requirements, similar to LEED Silver. This process ensures that an integrated design process is followed from design through construction, including building commissioning of HVAC and key envelope components of the building. Many other sustainable practices are included and tracked, including minimum energy performance, energy modeling, air quality, ventilation, acoustics, recycled materials, limiting volatile organic compounds, green cleaning, and more. Long term sustainable energy, such as solar panels, will be considered in the design to lower annual operating costs and contribute to a cleaner environment.

WELL Building Standard is a performance-based system used for schools, “monitoring features of the built environment that impact human health and well-being, through air, water, nourishment, light, fitness, comfort and mind.” This system takes a holistic approach to health in the built environment. While WELL Building Certification may or may not be pursued, the new design will incorporate concepts from this Standard.

Community Uses

The school facility will be utilized by the different clubs and teams in the high school for a variety of purposes. There will be on going use of the gymnasium and other areas of the building during the school year and during the summer months to accommodate all the various activities that take place at a high school. Notably, the entire building and site is used by the public throughout the year.

Program Diagrams and Program Matrix

SPACE PROGRAM MATRIX

Summary: Proposed Building Program

Projected Enrollment: 532

Haddam Killingworth High School

Academic Core Programs						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
Academic Core Classrooms	26	800	20,800			
Science: General/Physics	3	1,200	3,600			
Science: Chemistry	2	1,200	2,400			
Science: Biology	2	1,200	2,400			
Science : Greenhouse	1	300	300			
Science Prep Workrooms	3	300	900			
Teacher Prep Workroom/Copy	4	400	1,600			
Bookroom Closets	4	200	800			
In-School Suspension Room	1	300	300			
				-		
Subtotal	46		33,100	-	-	

Special Education Programs						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
			-			
Special Education Resource Rooms	5	500	2,500			
Special Education Transition Program 18-22yrs.	1	800	800			
Special Education Life Skills	1	1,200	1,200			
OT/PT Room	1	500	500			
Speech and Language Office	1	200	200			
Special Education Testing Office	1	200	200			
Subtotal	10		5,400	-	-	

Physical Education Programs						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
Field House/Gymnasium	1	14,874	14,874			
Auxillary Gym	1	2,700	2,700			
Training Room	1	300	300			
Multi-use P.E. Room - Weight Room	1	1,200	1,200			
Student Locker Room	2	500	1,000			
Student Locker Room - Team Room	2	300	600			
Student Restroom/Shower	2	300	600			
Physical Education Storage	1	350	350			
P.E. Athletic Office (Teachers)	2	100	200			
Staff Shower	2	80	160			
Athletic Storage	1	500	500			
Laundry	1	60	60			
Pool	1	7,315	7,315			
Pool Spectator Area	1	1,190	1,190			
Subtotal	19		31,049	-	-	

Food Services						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
Student Dining Area	1	4,500	4,500			

Staff Dining Lounge	1	500	500			
Kitchen: Preparation Area	1	1,200	1,200			
Kitchen: Dry Food Storage	1	300	300			
Kitchen: Cooler/Freezer	1	300	300			
Kitchen: Dish Washing	1	200	200			
Restroom/Locker Room	1	120	120			
Food Services Office	1	150	150			
Subtotal	8		7,270	-	-	

Arts and Music Programs						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
Instrumental/Band Room	1	1,200	1,200			
Chorus Room	1	1,200	1,200			
Piano/Guitar Lab	1	500	500			
Music Storage	1	300	300			
Art Room: Ceramics	1	1,200	1,200			
Kiln Room	1	200	200			
Art Room:Drawing and Painfing	1	800	800			
Art Room:Dark Room	1	500	500			
Art Storage	1	200	200			
Subtotal	9		6,100	-	-	

Library / Media Center						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
Media Center/Reading Area/Circulation	1	3,000	3,000			
Library/Media Specialist Office	1	120	120			
Periodical/Student Work Area	1	300	300			
TV Studio	1	800	800			
Workroom / Storage	1	150	150			
			-			
Subtotal	5		4,370	-	-	

Career and Technical Education						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
Application Lab - Wood	1	1,500	1,500			
Application lab - Auto	1	1,800	1,800			
Application Lab - Metal	1	1,200	1,200			
Application Lab - Culinary	1	600	600			
Culinary Related Classroom	1	500	500			
Computer Lab - Engineering	1	800	800			
Storage	2	200	400			
Student Project Storage	2	125	250			
Subtotal	10		7,050	-	-	

Performing Arts Programs						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
Auditorium	1	4,927	4,927			

Stage and Wing Space	1	2,125	2,125			
Control Room (Auditorium)	1	125	125			
Make-up/Dressing Room	1	150	150			
Costume Storage	1	75	75			
General Performing Arts Storage	1	300	300			
Subtotal	6		7,702	-	-	

Administration and Support Services						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
Main Office: Reception, Secretarial Area, Storage	1	600	600			
Principal's Office	1	250	250			
Assistant Principal's Office	1	200	200			
Athletic Director's Office	1	200	200			
Security Office	1	100	100			
Conference Room	1	300	300			
Mail/Work/Copy Room	1	200	200			
Counselor Waiting Area	1	150	150			
School Counselor Office	4	125	500			
Social Worker Office	1	150	150			
School Psychologist Office	1	125	125			
College/Career Center	1	400	400			
Health Suite	1	800	800			
Subtotal	16		3,975	-	-	

Building Services and Core Area						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
Facilities Office	1	100	100			
General Building Storage	1	800	800			
Men's Public Toilet Room	3	150	450			
Women's Public Toilet Room	3	150	450			
Boy's Toilet Rooms	4	200	800			
Girl's Toilet Rooms	4	200	800			
Staff Toilet Rooms	6	75	450			
All Inclusive Toilet Room	3	75	225			
Custodial Office	1	100	100			
Custodial Closets	5	50	250			
Mechanical & Water Service Room	1	600	600			
Fire Sprinkler Room	1	300	300			
Main Electrical Room	1	300	300			
Electrical Closets	2	150	300			
MDF Room	1	300	300			
IDF Room	1	150	150			
Deliveries and Receiving	1	300	300			
Subtotal	39		6,675	-	-	

Circulation (Corridors, Stairs, Elevator) & Interior Walls						
Spaces	Qty.	Ideal Room Area (SF)	Ideal Area Subtotal (SF)	Existing Quantity	Existing Area (SF)	Notes:
Circulation (Corridors, Stairs, Elevator)		0.20	23,873			

Interior Partitions & Chases		0.06	7,162			

Subtotal31,035- -

Total Building Area	Ideal Area (SF)	Existing Area (SF)
Total Program Areas	112,691	#REF!
Total Building Services and Core Area	6,675	-
Total Circulation (Corridors, Stairs, Elevator) & Interior Walls	31,035	-

Grand Total150,401