

EDUCATIONAL SPECIFICATIONS

FOR THE

Alterations & Additions to the Monroe Township High School

For

**The Monroe Township Board of Education
Monroe Township, Middlesex County
New Jersey**

**Project No.
23-3290**

**Ms. Chari Chanley
Superintendent of Schools**

**Ms. Chrissy Skurbe
District Board President**

TABLE OF CONTENTS

PART 13

I. BACKGROUND INFORMATION.....3-5

PART 26

II. EDUCATIONAL SPECIFICATIONS – NEW CONST. & RENOVATED SPACES.....6-12

INSTRUCTIONAL SPACE..... 6-10

 GENERAL CLASSROOM.....6-8

 SMALL GROUP INSTRUCTION.....9-10

SPECIALIZED INSTRUCTIONAL SPACE..... 11-12

 FITNESS ROOM.....11-12

EDUCATIONAL SPECIFICATIONS

PART 1

I. BACKGROUND INFORMATION

SCHOOL	Monroe Township High School
SCHOOL DISTRICT	Monroe Township Public Schools
COUNTY	Middlesex

A. IDENTIFY ALL FACILITIES NEEDED WITH A SHORT RATIONAL FOR EACH

1. The enrollment in the Monroe Township public schools system increased by 12.25% between the 2011-12 and 2016-17 school years and another 3% between 2016-17 and 2021-22. The majority of this growth is the result of new residential homes being built and occupied. Because Monroe Township has a great deal of open space, developers have purchased and continue to purchase any land that is available (this does exclude wetlands and farm preservations and/or land declared to be used for public purposes). This growth is continuing at a rapid pace. The District's Demographic Study and the updated Long Range Facilities Plan provide information regarding the impact of this residential growth. It is anticipated that between 2021-22 and 2026-27 school enrollment will increase by an additional 6.2%.
2. The following Plan outlines the educational specifications for the design of Additions & Alterations to the existing High School facility. When constructed, the Additions / Alterations will satisfy the needs of approximately 390 unhoused students. The work will result in the addition of 17 general education classrooms, 2 small group instructional spaces and the relocation of an existing fitness space in order to accommodate the additional classroom space noted above.

B. IDENTIFY PROPOSED SOLUTION TO SATISFY NEED

1. LIST OF FACILITIES TO BE PART OF NEW CONSTRUCTION

The following educational facility areas are needed to satisfy the requirements of the district.

a. Instructional Spaces

- i. 17 Academic Classrooms; Grades 9 - 12

b. Specialized Instructional Spaces

- i. Relocation of a Fitness Space
- ii. 2 Small Group Instruction Room

c. Other Considerations

- i. Building Additions shall be outfitted with a closed-circuit security system which will be an extension of the district's existing security equipment
- ii. Clock, fire alarm and phone communication systems will be tied into a new set of systems which are an extension of the district's existing
- iii. Building Additions will be climate controlled for year-round use for remedial and enrichment summer programs
- iv. Addition shall have storage space / custodial room for building maintenance. Outdoor Storage (connected to building) will also be provided.
- v. Wireless LAN computer system throughout the school.
- vi. Construction type and finishes of classroom additions shall match existing construction type to the greatest extents possible.

2. LIST OF FACILITIES TO BE ALTERED AND / OR UNDERGO A CHANGE IN USE

The following educational facility areas are needed to satisfy the requirements of the district.

- a. Existing Fitness Space (Weight & Cardiovascular Room) which is approximately 4,500 sf in area will be repurposed to accommodate additional classrooms and small group instruction rooms. A pre-engineered building addition will be provided as an addition in order to optimize programming adjacencies.

3. INFORMATION REGARDING PARKING

- a. It should be noted that parkin is not being added to this site. The current Middle School, which up until 2013 served as the High School, is across the street (Schoolhouse Road) from the existing High School. There is an abundance of unused parking at the Middle School which will serve the (driving) student population of the High School. There is an existing pedestrian

crosswalk with a built-in warning light system to allow students to safely cross Schoolhouse Road it should be noted that many of the high School athletic fields are also across the street at the existing Middle School Site.

**EDUCATIONAL SPECIFICATIONS
NEW CONSTRUCTION & RENOVATED SPACES**

PART 2

I. DESCRIPTION OF SPACES

GENERAL CLASSROOMS (GRADES 9-12)

Number of Occupants:	25-26
Number of Instructors:	1 to 2 per classroom
Approximate Square Feet:	750
Number of Rooms:	17
Spatial Relationship:	Additional classrooms are being distributed to the greatest extent possible across a very large building footprint

DESCRIPTION OF INSTRUCTIONAL ACTIVITIES

Academic classrooms and laboratories will be used to teach English, mathematics, business, social studies, world languages and other subjects not requiring dedicated facilities on a scheduled basis. The changing technology used to teach in the various programs indicates that the subjects taught in these rooms will use a wide variety of media and computers. Academic classrooms must be designed in such a way as to allow for technologies not yet available. This means there must be flexibility for future technology along with the ability to rearrange the room for a variety of instruction situations.

Each classroom should have a teacher station and a teacher's aid station that can accommodate a wireless laptop computer, a video overhead projector, and network connections to the school audio/video computer network. These rooms should have ample wireless access capacity to handle a wireless laptop environment for all students and teachers (to accommodate individual study for remediation, acceleration and group work). It is also important that the teacher can project visuals and computer images to an Active Board. Active Boards should have audio inputs so that the other devices can be connected to the unit's integrated speakers.

Academic classrooms will also serve as a base for students and should be electronically connected with other key areas of the building to facilitate the flow of communication.

Typical activities that will occur in an academic classroom include:

Lecture/Media Presentations	Interactive Video Instruction
Discussions	Independent Study
Small Group Activities	Independent and Group Research
Computer Based or Assisted	Testing and Evaluation
Instruction	Group Interaction
Teacher/Student Discussions	Oral and Video Presentations
Gaming and Simulation	Multidisciplinary Projects
Cooperative Learning/Committee	Guest Speakers
Work	Reading and Writing Activities
Peer Tutoring	Team Teaching
Role Playing	Case Study Activities
Informal Interviews	Multimedia Activities
Inquiry/Problem Solving Activities	Other Appropriate Instructional
Brainstorming	Activities

SPECIAL FEATURES REQUIRED

Architectural

- Student seating should be individual rectangular desks.
- Maximum tack boards and whiteboard space should be provided.
- Each room should have an Active / Smart Board
- Built in storage should be provided for instructional supplies and teacher storage.
- Academic Classroom clustered should be distributed throughout the large building footprint

Electronic/Electrical

- This is a wireless laptop environment which must be outfitted with ample wireless access points and power receptacles for charging. Teachers and Students will utilize wireless laptop computers with connection to the District network and media distribution system.
- Provide wireless access points at all classrooms. Also, provide for cable management and ready access to electrical outlets and network connections.
- All classrooms should be equipped to receive voice and video signals.
- A clock and an intercom integrated with the telephone system should be provided in each classroom and tied into the existing school infrastructure. The system should be

computer controlled so that individual telephone outlets can be controlled from a central location.

- Ample electrical strip outlets and telephone outlets should be provided.
- Each classroom should be outfitted with an Active / Smart Board.

Equipment

- Student tables/chairs
- Audio/Video center
- File cabinets
- Instructional material storage
- Counter/Cabinets
- Active / Smart Boards
- Whiteboard and tackboards
- Trash receptacles

SMALL GROUP INSTRUCTION

Number of Occupants:	12
Number of Instructors:	1 teacher and 1 aide
Approximate Square Feet:	400
Number of SGI Rooms:	2 rooms
Spatial Relationship:	In close proximity to general ed. classrooms

DESCRIPTION OF INSTRUCTIONAL ACTIVITIES

Two small group instruction rooms are planned to supplement those which currently exist. The small group instruction rooms will be used for the following purposes:

- Small enrolled classes such as BC Calculus, AP Languages, etc.
- Individual/small group tutoring
- Breakout sessions
- Resource Areas
- Student activity meetings

SPECIAL FEATURES REQUIRED

Architectural

- Student seating should be individual rectangular desks.
- Maximum tack boards and whiteboard space should be provided.
- Each room should have an Active / Smart Board
- Built in storage should be provided for instructional supplies and teacher storage.
- SGI rooms should be proximate to general ed academic classrooms

Electronic/Electrical

- This is a wireless laptop environment which must be outfitted with ample wireless access points and power receptacles for charging. Teachers and Students will utilize wireless laptop computers with connection to the District network and media distribution system.
- Provide wireless access points at all classrooms. Also, provide for cable management and ready access to electrical outlets and network connections.
- All classrooms should be equipped to receive voice and video signals.
- A clock and an intercom integrated with the telephone system should be provided in each classroom and tied into the existing school infrastructure. The system should be computer controlled so that individual telephone outlets can be controlled from a central location.

- Ample electrical strip outlets and telephone outlets should be provided.
- Each classroom should be outfitted with an Active / Smart Board.

Equipment

- Student tables/chairs
- Audio/Video center
- File cabinets
- Instructional material storage
- Counter/Cabinets
- Active / Smart Boards
- Whiteboard and tackboards
- Trash receptacles

FITNESS ROOM

Number of Occupants:	50
Number of Instructors:	2
Approximate Square Feet:	4,300
Number of Spaces:	1
Spatial Relationship:	In proximity of existing Gymnasium / Athletic Core Spaces

DESCRIPTION OF INSTRUCTIONAL ACTIVITIES

This space provides a center for fitness activities and weight training. The room will be used by both the physical education program and the athletic program. Emphasis in this area should be on equipment that raises the students' fitness level and enhances physical performance.

SPECIAL FEATURES REQUIRED

Architectural

Pay special attention to floor weighing factor. Two floor surfaces will be used in the space; heavy duty rubber sports flooring to support free-weight activities and turf (commercial indoor / outdoor carpet) to facilitate the use of weighted sleds, running, sprints, and other dynamic movement exercises. Attention must be paid to acoustic treatment to temper the noise level. Provide appropriate HVAC system to satisfy use. Provide appropriate door width / access to space in order to facilitate equipment transfer.

Provide a rubber tile floor. Provide enough ceiling space for students to use treadmills. (Headroom 9 feet minimum including lights) Acoustics to cut down noise. Provide proper ventilation system for a cardiovascular lab. Provide enough door width to make easy to move cardiovascular equipment in and out of room. Use folding partition or vision panel with door to weight room.

Room must have ample storage space.

Electronic/Electrical

Connect to the school's computer/media network & intercom. Provide a minimum of twenty (20) electrical receptacles for treadmills and other power operated fitness equipment. Provide for audio / visual distribution.

- Provide for audio/visual recoding and distribution
- Connect to existing computer / media network

Mechanical

Provide proper ventilation in addition to climate control and independent control for HVAC equipment in these spaces.

Specialized Equipment

- Life Fitness 9100 Treadmill – (10) Units
- Lifting Rack for free-weights / half rack (8) Units
- Wall Mounted Plate Storage
- Weighted Sleds
- Mirrors strategically placed on walls
- Minimum of six (6) monitors / screens distributed throughout space
- Sound system for music with Public Address system override

Security Systems – fire, safe vestibule with security desk, remote entry doors, camera system, sprinkler system