



**Patchogue-Medford**  
Union Free School District

Presentation to the Bond Advisory Committee  
**2024 POTENTIAL BOND SCOPE DISCUSSION**

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**BBS** ARCHITECTS  
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January 9, 2024



# PROJECTS FOR CONSIDERATION

## **A. UNIT VENTILATOR REPLACEMENT**

District-wide Classrooms

## **B. HVAC IMPROVEMENTS**

District-wide Cafeterias and Gymnasiums

## **C. ATHLETIC & ART/MUSIC UPGRADES**

Focus on Secondary Schools

# FOUNDATIONAL REASONING

Many HVAC systems are approaching the **end of their useful life** and represent less efficient technology from the past. Updates are needed.

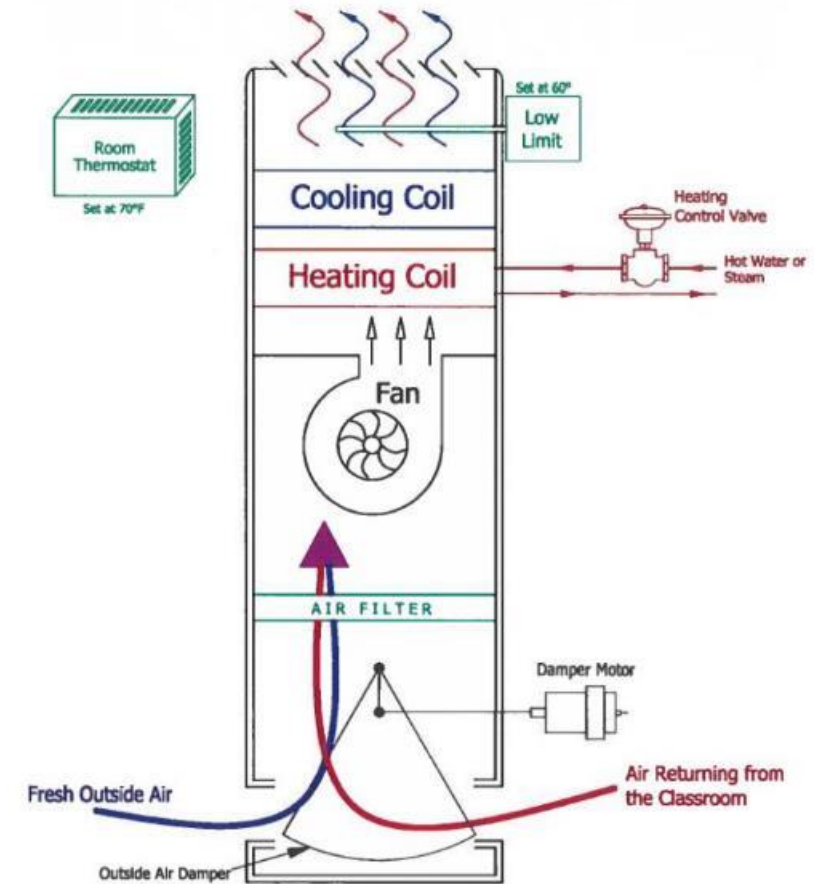
The **student experience** will be upgraded by improving athletic, music and presentation spaces at the secondary level.

School district facilities serve students, faculty and the community.

# A. UNIT VENTILATOR (UV) REPLACEMENT

Improved heating and ventilation in  
± 550 classrooms

- Existing UVs ±70 years old (EOL)
- Improved quality of air intake / filtration capability
- Higher energy-efficiency (\$\$ savings)
- Reduced system maintenance
- Increased building security



The diagram, shown above, depicts how a unit ventilator works.

# A. UNIT VENTILATOR (UV) REPLACEMENT



South Ocean Middle School UV Replacement - Before (2021) & After Construction (2023)

## **B. HVAC IMPROVEMENTS**

### **HVAC improvements in cafeterias and gymnasiums district-wide.**

- Improved health conditions in all assembly spaces
- Better operation and control for increased energy-use efficiency
- Increased building security (keep windows closed)

## **B. HVAC IMPROVEMENTS**

### **VRF Rooftop Ducted HVAC Units.**

Provide rooftop ducted HVAC units and connect to existing ductwork systems where appropriate including:

- Ducted rooftop HVAC units
- DDC controls tied to the building management System (BMS)
- Removal of existing air handling equipment

Benefits include better operation and control, improved quality of fresh air intake / filtration capability, energy efficiency, reduced system maintenance, climate control

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# **C. ATHLETIC UPGRADES at HIGH SCHOOL**

**Multi-purpose field, sports lighting, grandstands, double-sided press box, video scoreboards, sound.**

- **Extended hours of use, including evenings and events**
- **Reduced maintenance and operational costs**
- **Improved safety**
- **Improved equity for all teams and programs**
- **Expanded community use opportunities**



# **C. ATHLETIC UPGRADES at HIGH SCHOOL**

- New grandstands - increased seating capacity, comfort
- Improved safety and ADA accessibility
- Double sided Press Box
- Video Scoreboards – meets the new NFHS requirements
- Improved experience for athletes, spectators, and officials
- Community uses and functions – marketing/promotion, movie nights, etc.

# **C. ATHLETIC UPGRADES at HIGH SCHOOL**

## **High School gymnasium and football field sound systems.**

Install state of the art sound systems in both high school gymnasiums as well as the football field

Benefits multiple boys and girls varsity and JV sports teams, outside community groups, graduation ceremonies, reduced rental fees, physical education classes, school events, etc.

# **C. ATHLETIC UPGRADES at HIGH SCHOOL**

## **High School Video Scoreboards.**

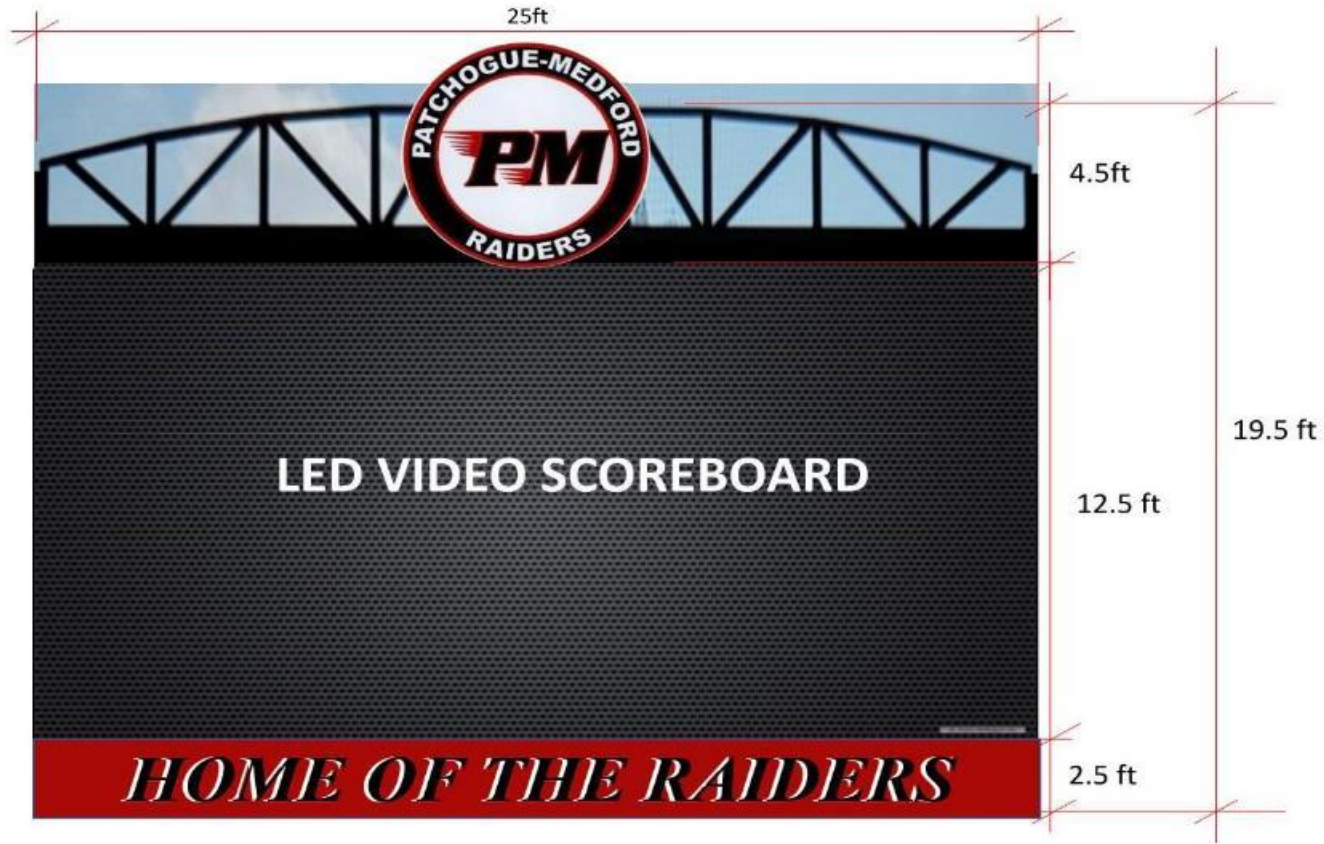
Install state of the art video scoreboards in both high school gymnasiums as well as the multi-purpose field

Benefits boys and girls Varsity, JV and middle school multiple sports teams, outside community groups, graduation ceremonies, marching band, reduced rental fees, sports information, media and marketing curriculum, improved communication during events, etc.

# C. ATHLETIC UPGRADES at HIGH SCHOOL



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2024 Potential Bond Discussion

## **C. ART/MUSIC UPGRADES at SECONDARY SCHOOLS**

**Replace audio/visual and lighting systems at all performance spaces (auditoriums, stages) and related areas.**

- Increased safety – existing systems near their EOL
- Higher energy-efficiency (\$\$ savings)
- Higher quality A/V experience
- Arts program as well as rehearsal areas, extra-curricular activities, community functions, higher quality recordings, etc.

## **C. ART/MUSIC UPGRADES at SECONDARY SCHOOLS**

**Auditorium theatrical lighting at all four performance spaces at the secondary level.**

Install state of the art LED theatrical lighting and lighting control systems

Benefits not only productions but extra-curricular activities, building assemblies, outside community groups, etc.

# **C. ART/MUSIC UPGRADES at SECONDARY SCHOOLS**

**Saxton MS, South Ocean MS and Oregon MS auditorium sound systems.**

Install performance space sound systems to replace the older systems

Benefits not only music performances, but productions, extra-curricular activities, Board meetings, ceremonies, building assemblies, community groups, reduced rental fees, etc.

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We welcome any questions.

**Thank You.**



January 9, 2024

