



CAPITAL PROJECTS OPTIONS COMPARISON

OCTOBER 10, 2019





GOALS FOR DISTRICT-WIDE IMPROVEMENTS:

- ADDRESS INCREASING ENROLLMENT THROUGHOUT DISTRICT
- UPGRADE AGING MURRAY AVENUE SCHOOL AND HIGH SCHOOL INFRASTRUCTURE
- INTEGRATE MODERN EDUCATIONAL PROGRAMS/TECHNOLOGY
- IMPROVE TRAFFIC SAFETY AT MURRAY AVENUE SCHOOL
- DEVELOP LONG-TERM PLAN FOR STADIUM

FOCUS

This study entailed a review of existing conditions, delivery of educational programs, and enrollment projections to produce a series of long-term upgrade and/or reconfiguration options. The following buildings and campuses were included in this process:

- Pine Road Elementary School
- Murray Avenue School
- Lower Moreland High School





DATA COLLECTION - DELIVERABLES

Research was conducted to produce the following:

- Enrollment Study
- Existing Conditions Analysis

- Analysis of Program-Related Needs
- Interviews with School Administrators







ENROLLMENT



SECURITY



CODE COMPLIANCE



CURRICULUM



EDUCATIONAL



OPERATIONAL

BUILDING SYSTEMS



FLEXIBILITY



TECHNOLOGY







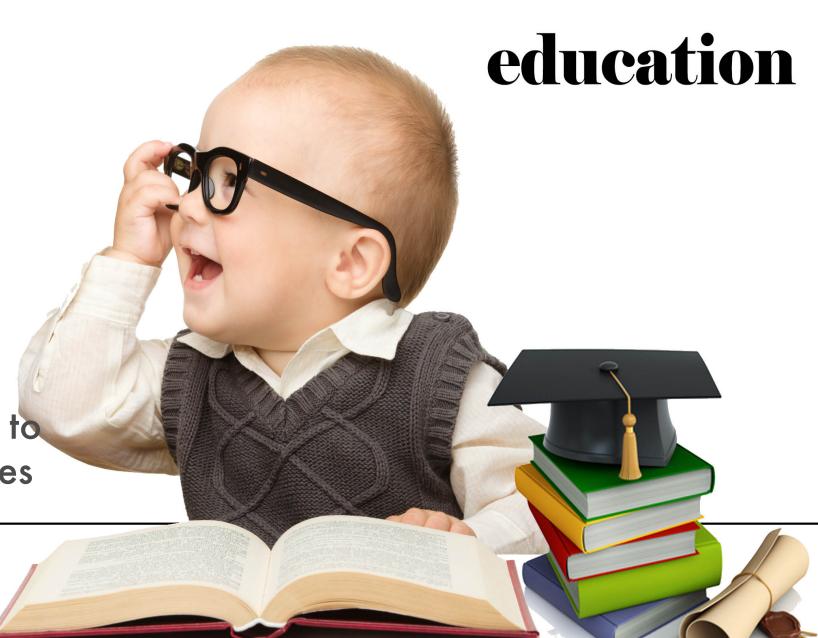


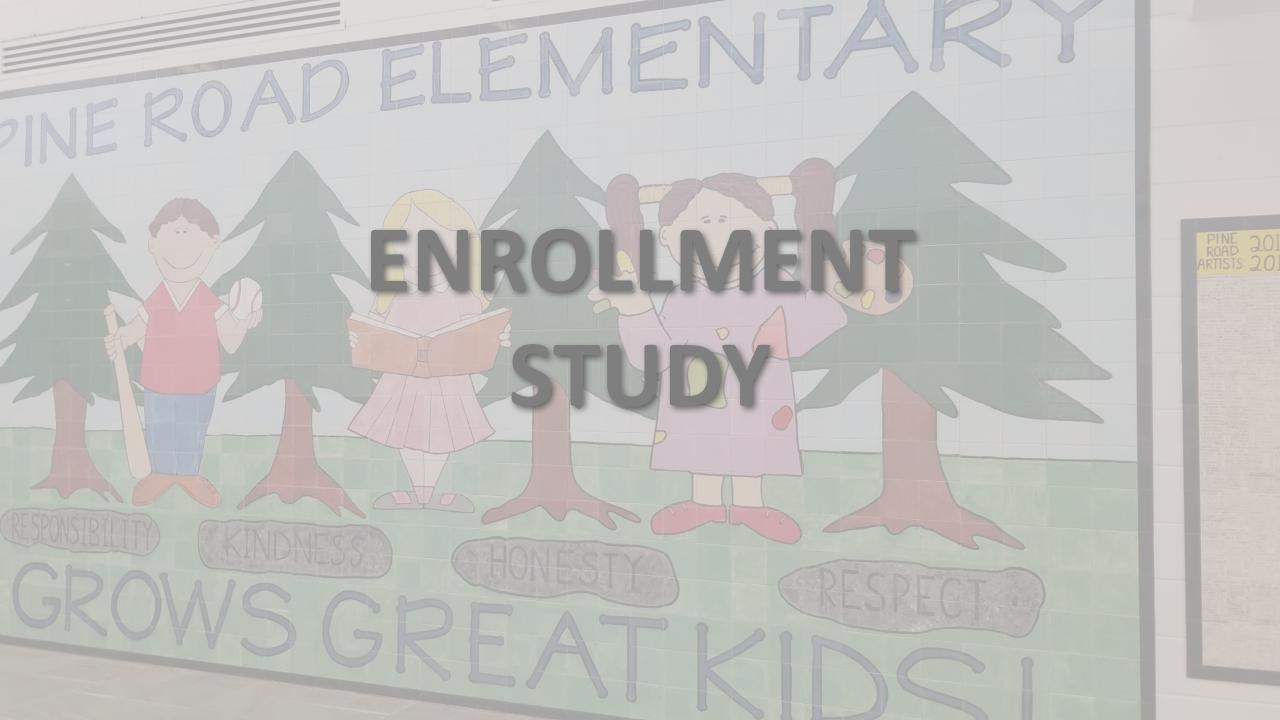
What's Changed?

•The <u>workforce</u> has changed

•The way we <u>teach</u> has changed

Our school buildings
 need to be <u>adaptable</u> to these educational changes





PROCESS

10-year enrollment projections for LMTSD were developed through an analysis of the following data:

- Live birth data
- Historical enrollment
- Charter school enrollment
- Non-public school enrollment
- Community demographics
- Housing information





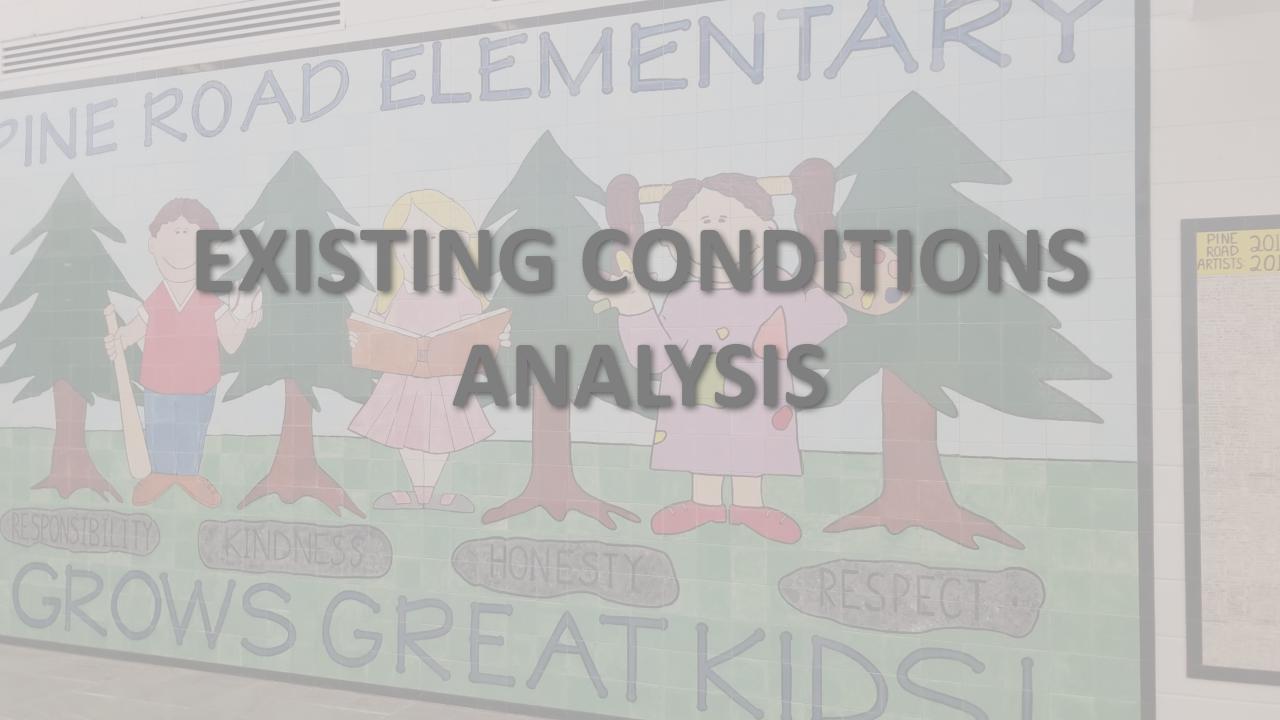
ENROLLMENT STUDY



Summary:

- 1. Historical enrollment shows student increase over last 10 years
- 2.Projections show increase of 350 students over the next 10 years
- 3. Large number of future housing to further increase enrollment
- 4.Increases arriving at all grade levels/effecting all schools





PROCESS

An architectural/engineering analysis of each building and campus was conducted that evaluated the following:

- Overall functionality
- General condition
- Building systems

- Code compliance
- Energy efficiency
- Security protocols









PINE ROAD ELEMENTARY SCHOOL



Grades: K to 5

Current Enrollment: 1013

Building Capacity: 1050 (96% Capacity)

Size: 135,663 SF on approx. 17.8 acres

Construction: Built in 1958, Additions in 1962, 2002, and 2010 (F-wing)



PINE ROAD ELEMENTARY SCHOOL



Summary:

- 1. Building is in good condition
- 2.HVAC in the older sections of the building should be replaced
- 3. Lighting should be upgraded to LED for better energy efficiency
- 4.Consider moving Board Room out of building
- 5. Consider renovation of Library



MURRAY AVENUE SCHOOL



Grades: 6 to 8 (also houses DAO and

District Maintenance)

Current Enrollment: 607

Building Capacity: 859 (71% capacity)

Size: 139,900 SF on approx. 17 acres

Construction: Built in 1940, Additions in

1960, 1970. Recent renovation in 2018.



MURRAY AVENUE SCHOOL



Summary:

- 1.Building is well maintained but showing its age
- 2.Not adequate to provide modern educational programs/services
- 3.Building systems (HVAC and plumbing) should be replaced
- 4. Renovation will require sprinklers
- 5. Entry to school not easily identified
- 6.Consider relocating DAO
- 7. Consider long term future

LOWER MORELAND HIGH SCHOOL



Grades: 9 to 12

Current Enrollment: 774

Building Capacity: 801 (97% capacity)

Size: 172,160 SF on approx. 58 - 63 acres



Construction: Built in 1967, Additions in 1969 (one story classroom addition) and 1970 (Auditorium and Lobby). Athletics and pool built in 2003. 6 modular classrooms added in 2013 due to increasing capacity



LOWER MORELAND HIGH SCHOOL



Summary:

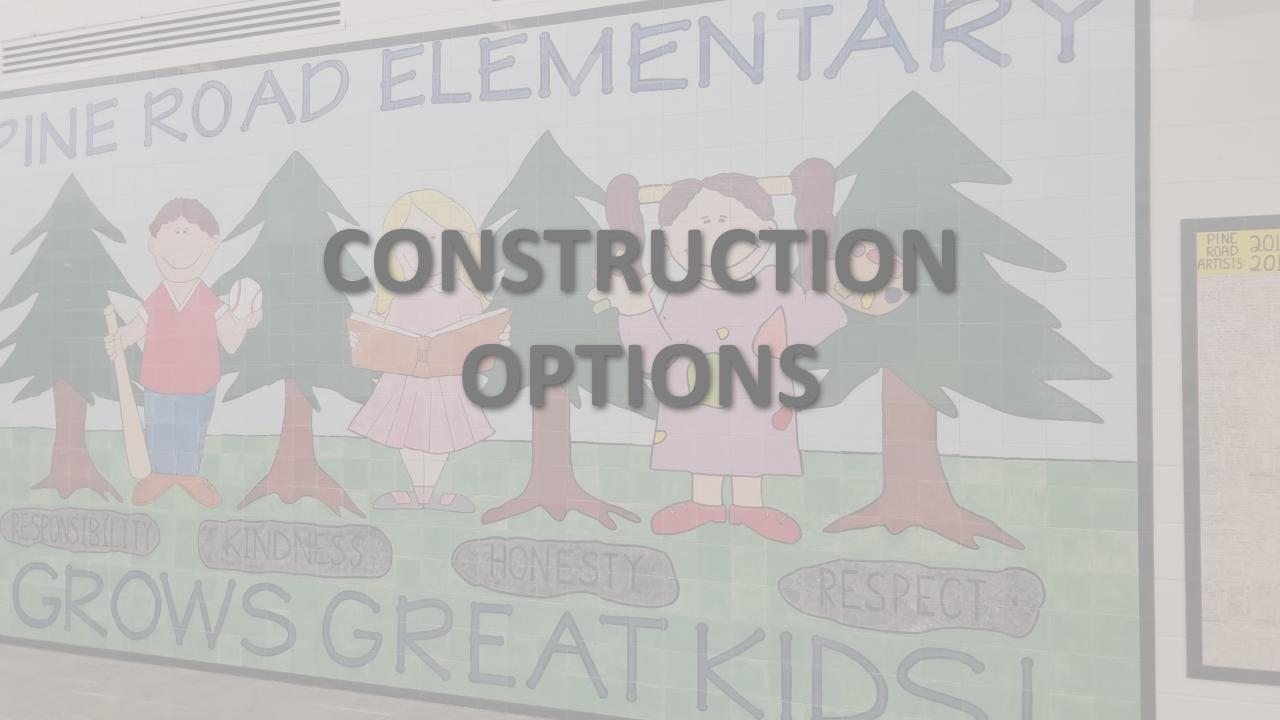
- 1.Building is close to full capacity, consider classroom addition
- 2. Numerous exterior repairs to brick, roof systems, and flashing needed
- 3.Building systems (HVAC) should be replaced
- 4. Lighting should be replaced with LED lighting

LOWER MORELAND HIGH SCHOOL



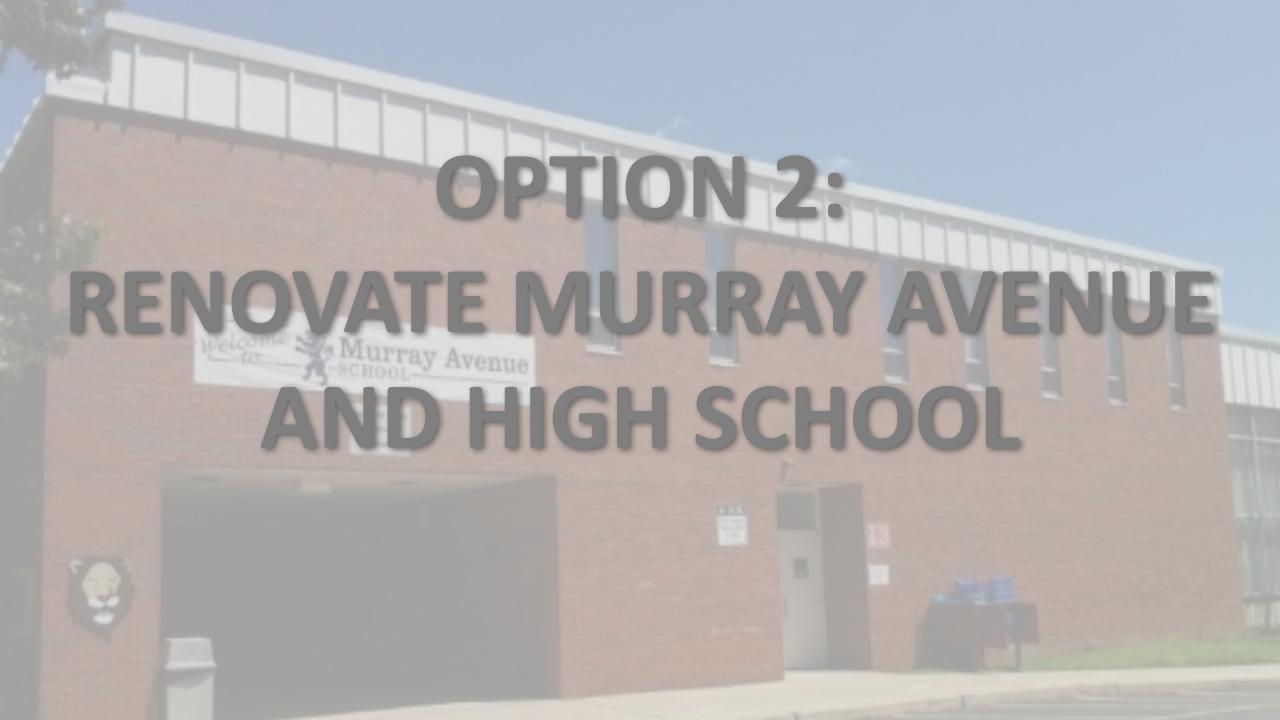
Summary:

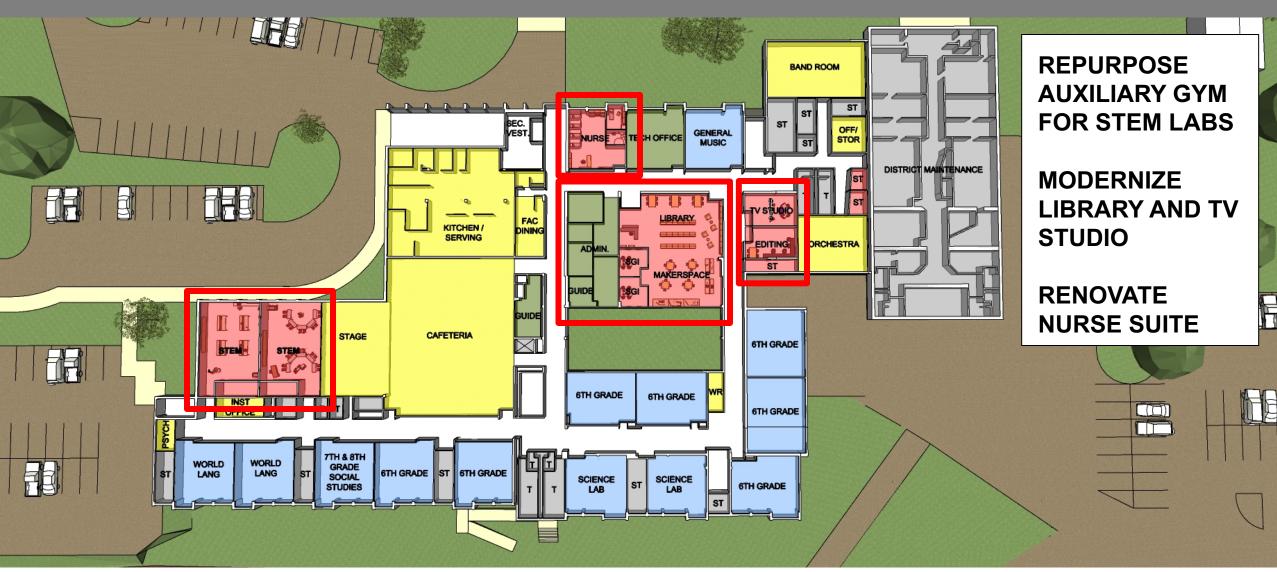
- 5.Consider renovation of Athletic Areas
- 6.Consider renovation of Music Rooms
- 7. Consider renovation to accommodate small group instruction rooms and large group collaboration areas
- 8. Consider renovation to expand on existing Maker Space



HOW DO WE MAKE THE CHANGE?

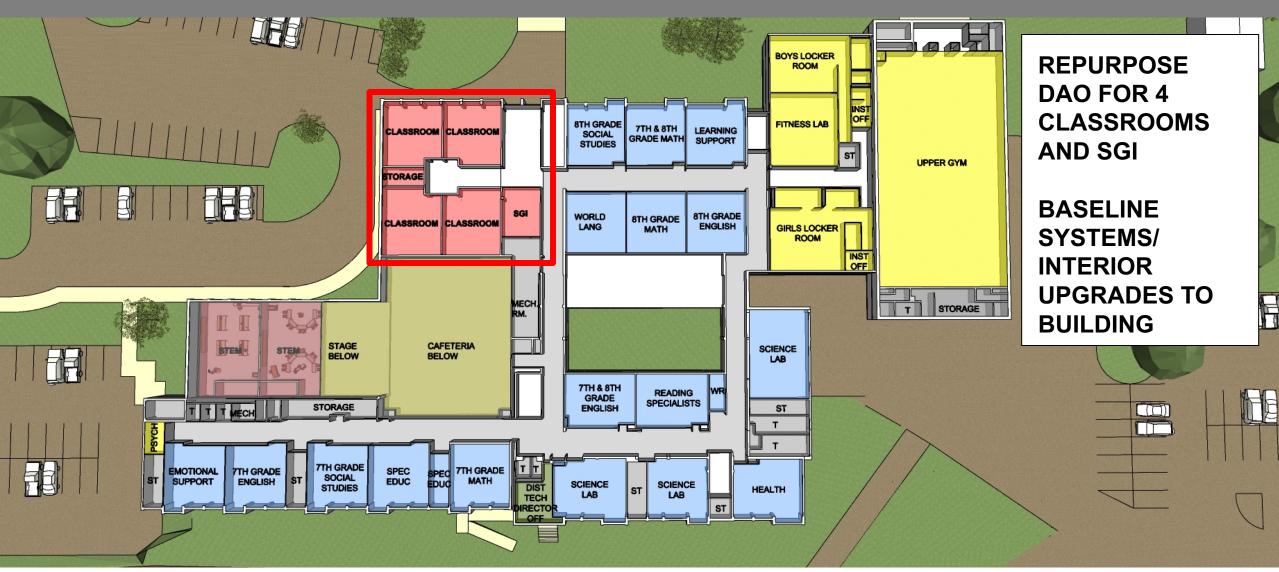






PROPOSED MURRAY AVENUE OPTION B FROM STUDY





PROPOSED MURRAY AVENUE OPTION B FROM STUDY

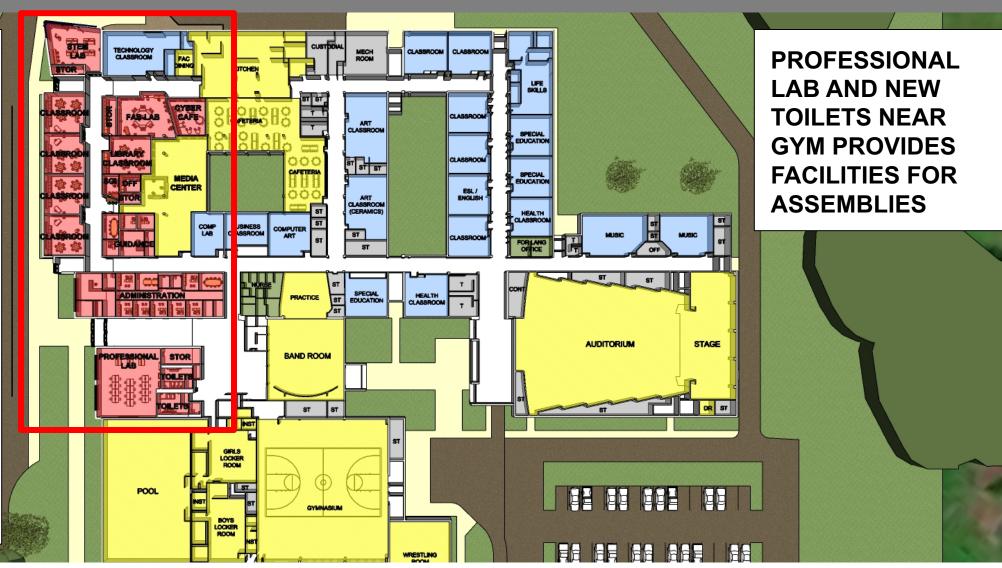


2-STORY 10 CLASSROOM ADDITION

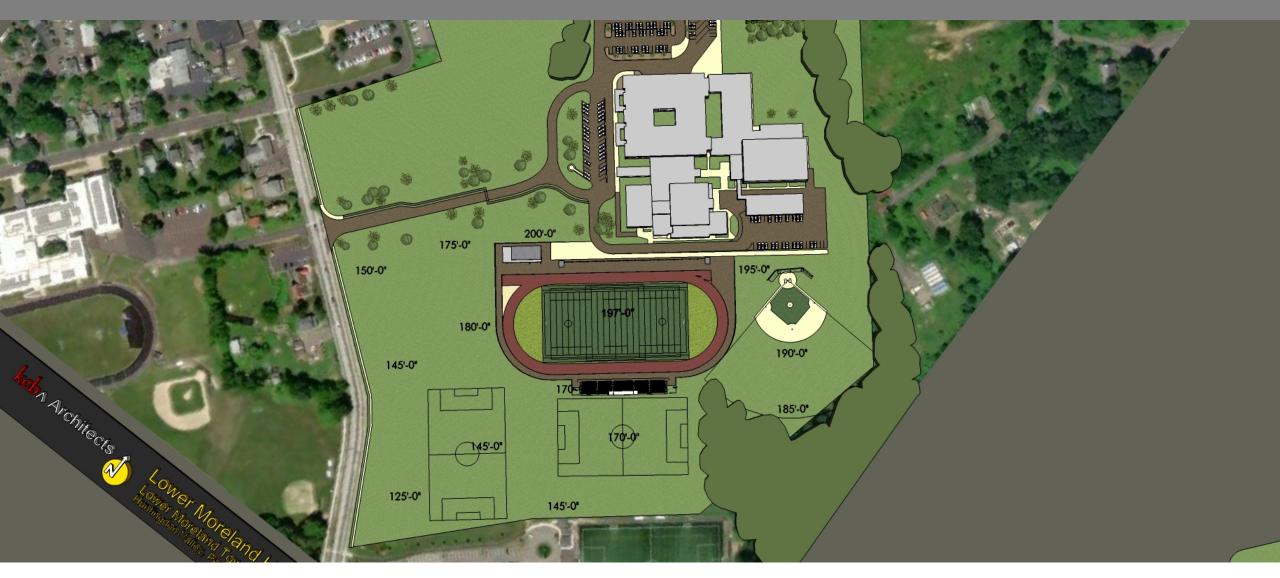
EXPAND STEM
AREAS IN MEDIA
CENTER

EXPAND ADMINISTRATION AND GUIDANCE

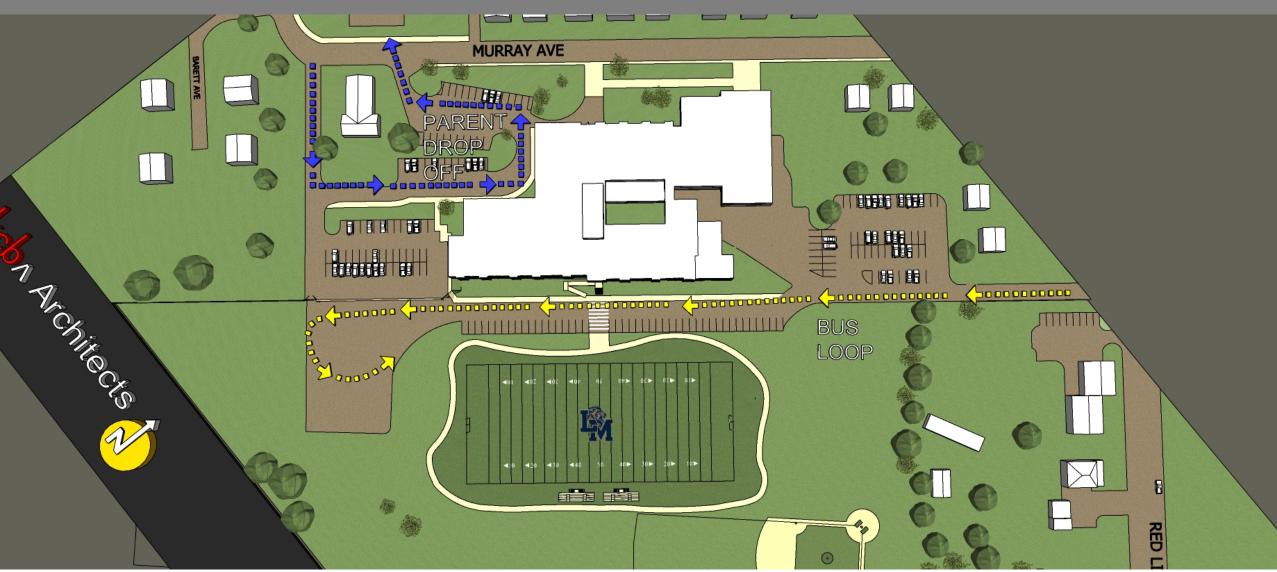
BASELINE SYSTEMS/ INTERIOR UPGRADES TO BUILDING













CONSTRUCTION COST

\$51,600,000

PROS

- ADDRESSES IMMEDIATE CAPACITY NEEDS
- ADDRESSES PRESSING
 OPERATIONAL/MAINTENANCE NEEDS AT
 MURRAY AVENUE AND HIGH SCHOOL
- ESTABLISHES NEW STADIUM AND ENHANCES SAFETY AT MURRAY AVENUE
- REMOVES MODULARS AT HIGH SCHOOL

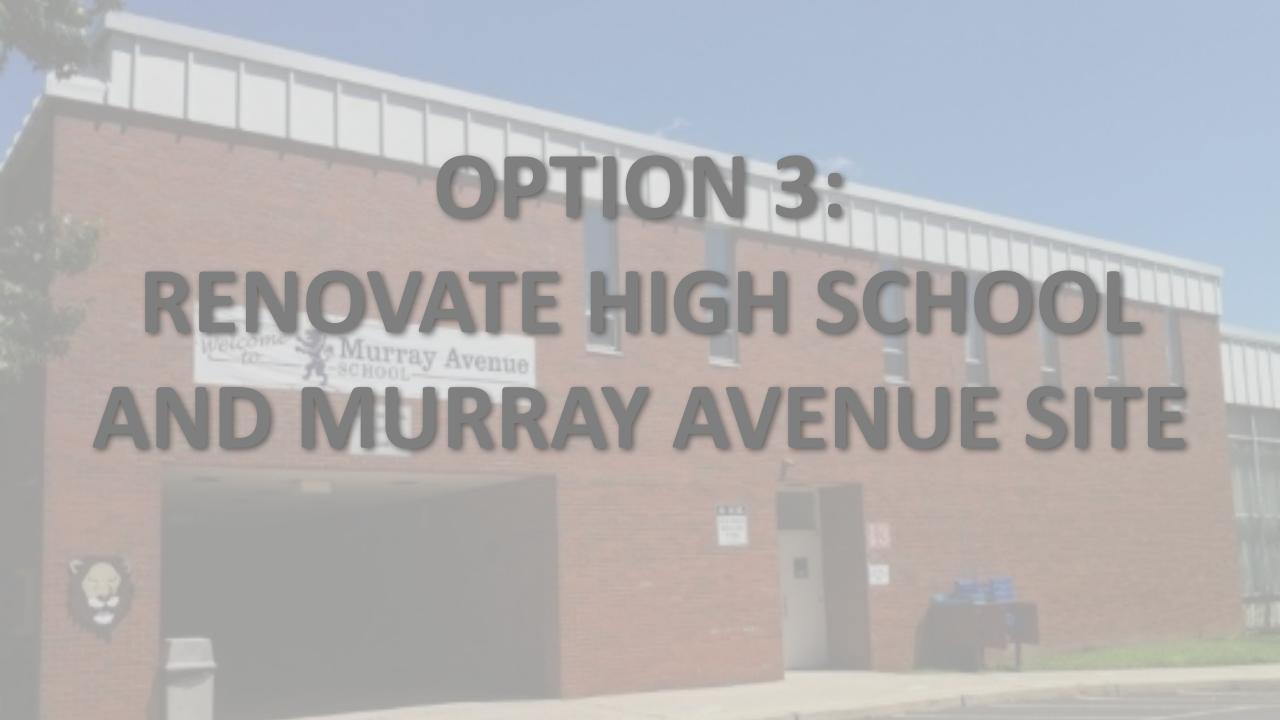
TOTAL PROJECT COST

\$66,000,000

CONS

- LIMITED TO BASELINE EDUCATIONAL UPGRADES AT MURRAY AVENUE AND HIGH SCHOOL
- DOES NOT ADDRESS ALL IDENTIFIED FACILITY ISSUES AT MURRAY AVENUE
- SIGNIFICANT DISRUPTION TO SCHOOL OPERATIONS DURING CONSTRUCTION
- ADDITIONAL MODULARS MAY BE NEEDED IN FUTURE TO ADDRESS POTENTIAL INCREASING ENROLLMENT OF 5TH GRADE







PROPOSED MODULAR LOCATION AT PINE ROAD



2-STORY 10 CLASSROOM ADDITION

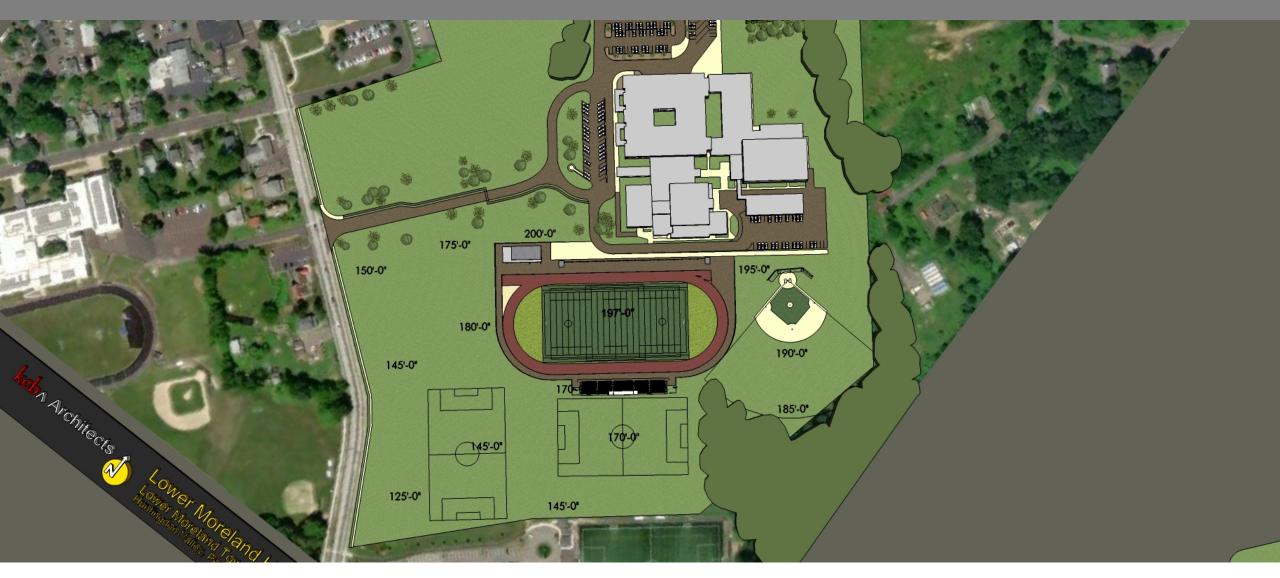
EXPAND STEM
AREAS IN MEDIA
CENTER

EXPAND
ADMINISTRATION
AND GUIDANCE

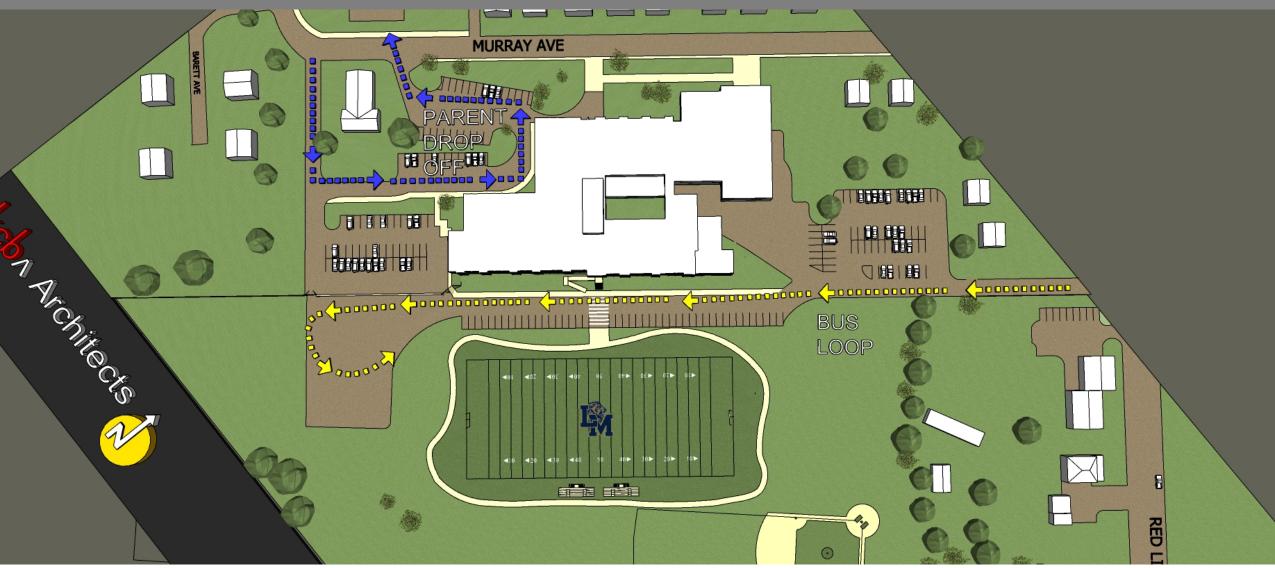
BASELINE SYSTEMS/ INTERIOR UPGRADES TO BUILDING













CONSTRUCTION COST

\$33,600,000

PROS

- ADDRESSES LONG-TERM DISTRICT-WIDE **CAPACITY NEEDS**
- ADDRESSES PRESSING OPERATIONAL/MAINTENANCE NEEDS AT • LIMITED TO BASELINE EDUCATIONAL MURRAY AVENUE AND HIGH SCHOOL
- **ESTABLISHES NEW STADIUM AND ENHANCES SAFETY AT MURRAY AVENUE**
- REMOVES MODULARS AT HIGH SCHOOL

TOTAL PROJECT COST

\$42,800,000

CONS

- DOES NOT ADDRESS **OPERATIONAL/MAINTENANCE OR** EDUCATIONAL NEEDS AT MURRAY AVENUE
- **UPGRADES AT HIGH SCHOOL**
- SIGNIFICANT DISRUPTION TO SCHOOL OPERATIONS DURING CONSTRUCTION
- **CONSIDERABLE APPROVAL CHALLENGES**





OPTION 4: BUILD NEW HIGH SCHOOL AND MAINTAIN GRADE ALIGNMENT



PROPOSED MODULAR LOCATION AT PINE ROAD

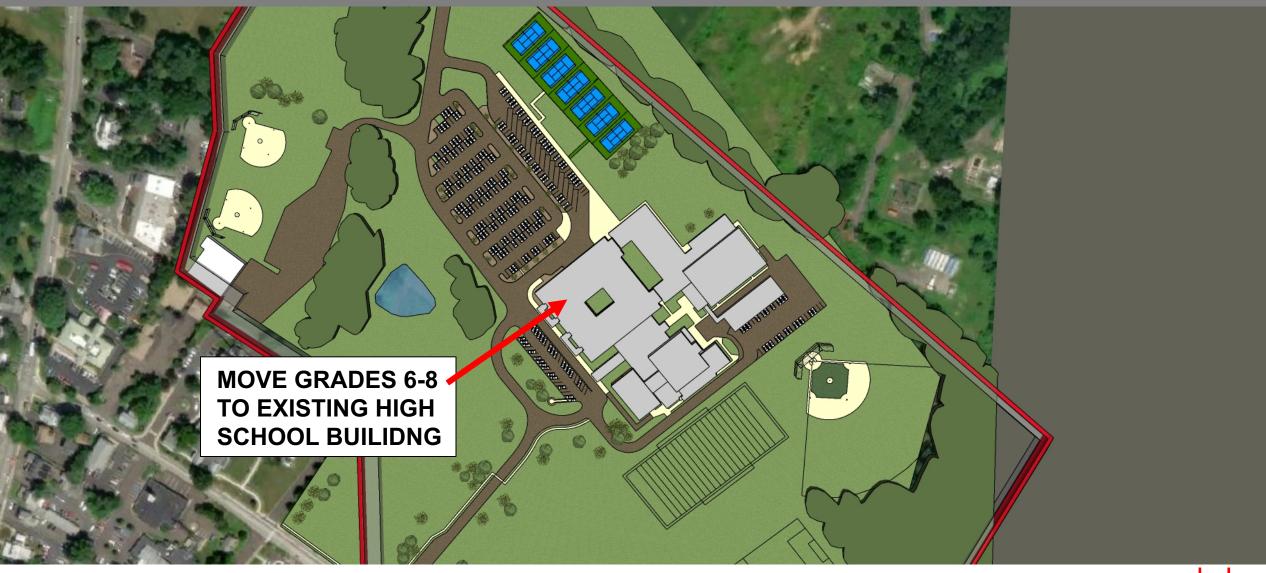


OPTION 4: BUILD NEW HIGH SCHOOL AND MAINTAIN GRADE ALIGNMENT























CONSTRUCTION COST

\$60,300,000

PROS

- ADDRESSES LONG-TERM DISTRICT-WIDE CAPACITY NEEDS AT HIGH SCHOOL AND MIDDLE SCHOOL
- ESTABLISHES 21ST CENTURY NEW HIGH SCHOOL BUILDING
- RESOLVES SITE SAFETY ISSUES AT MURRAY AVENUE
- REMOVE MODULARS AT HIGH SCHOOL

TOTAL PROJECT COST

\$72,200,000

CONS

- DOES NOT ADDRESS
 OPERATIONAL/MAINTENANCE OR
 EDUCATIONAL NEEDS AT NEW MIDDLE
 SCHOOL (ORIGINAL HIGH SCHOOL)
- CONSIDERABLE APPROVAL CHALLENGES
- ATHLETIC FIELD RELOCATION REQUIRED TO MURRAY AVE SITE WITH POTENTIAL NEW HS LOCATION

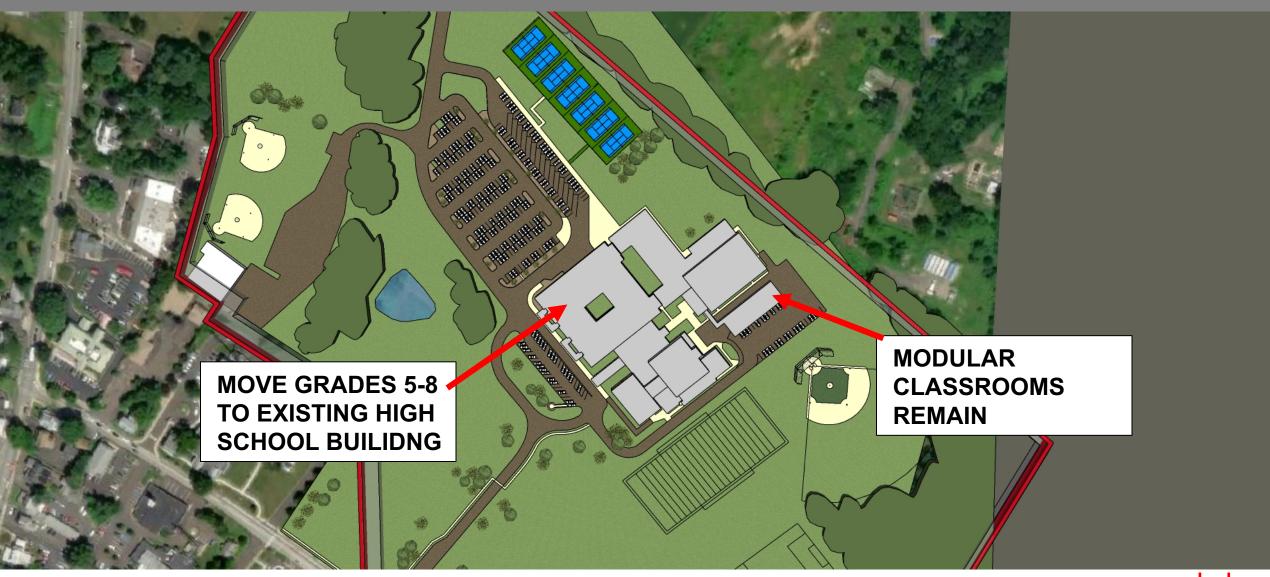








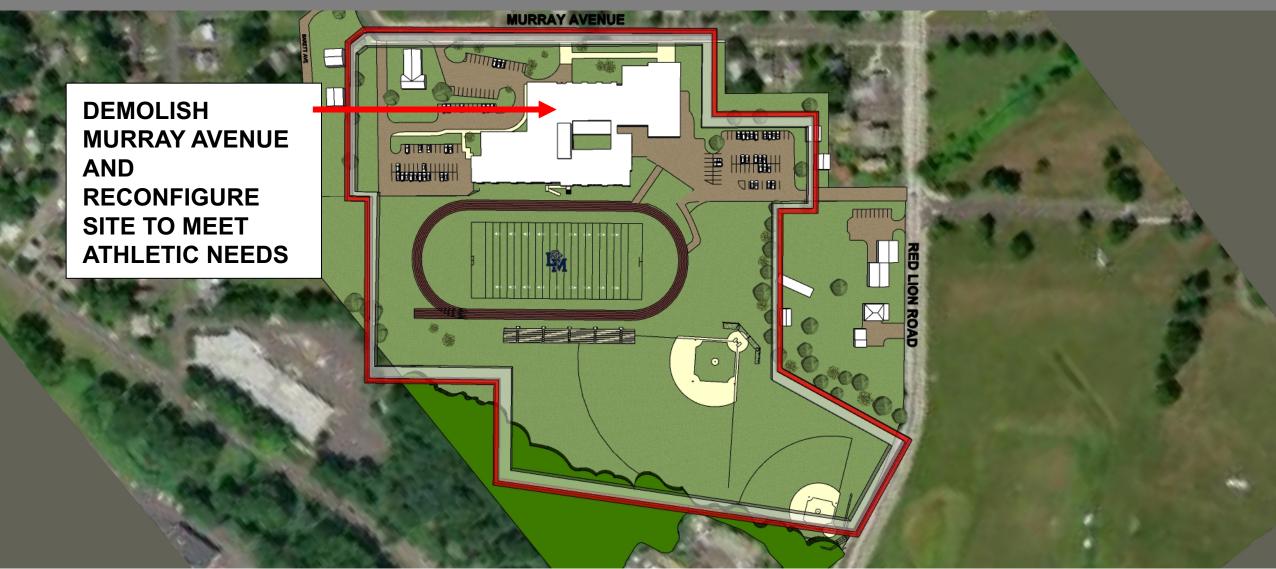














CONSTRUCTION COST

\$59,200,000

PROS

- ADDRESSES LONG-TERM DISTRICT-WIDE CAPACITY NEEDS
- ESTABLISHES 21ST CENTURY NEW HIGH SCHOOL BUILDING
- RESOLVES SITE SAFETY ISSUES AT MURRAY AVENUE

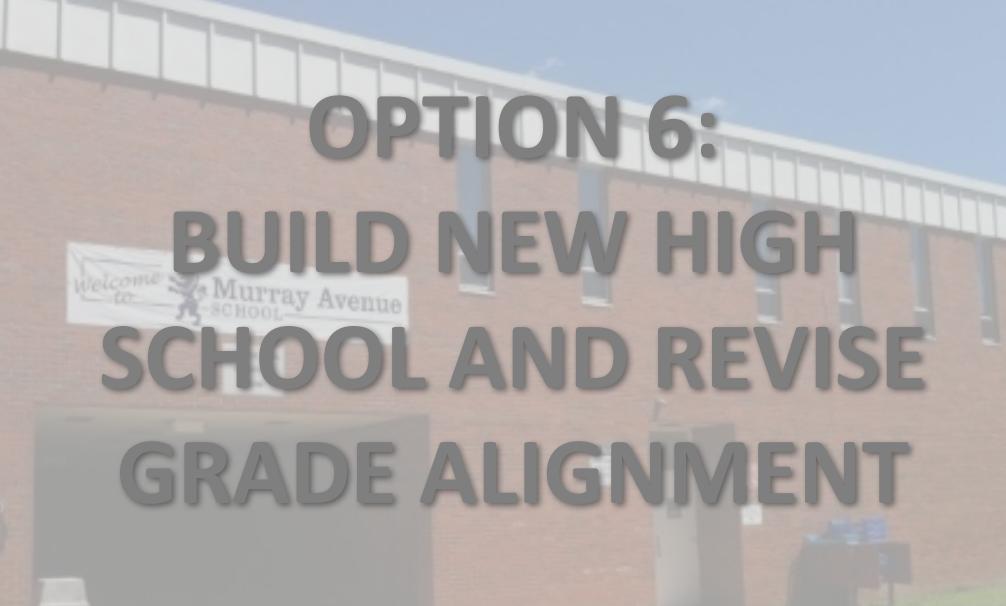
TOTAL PROJECT COST

\$70,900,000

CONS

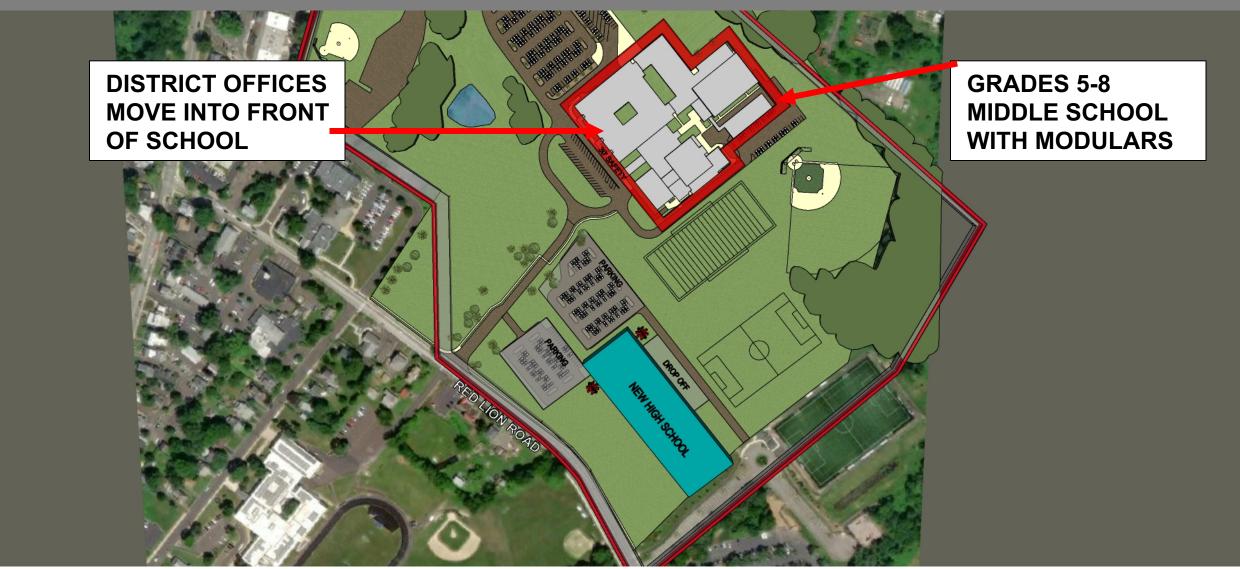
- DOES NOT ADDRESS
 OPERATIONAL/MAINTENANCE OR
 EDUCATIONAL NEEDS AT NEW MIDDLE
 SCHOOL (ORIGINAL HIGH SCHOOL)
- MAINTAINS MODULARS AT ORIGINAL HIGH SCHOOL
- TENNIS COURT RELOCATION REQUIRED TO MURRAY AVE SITE WITH POTENTIAL NEW HS LOCATION







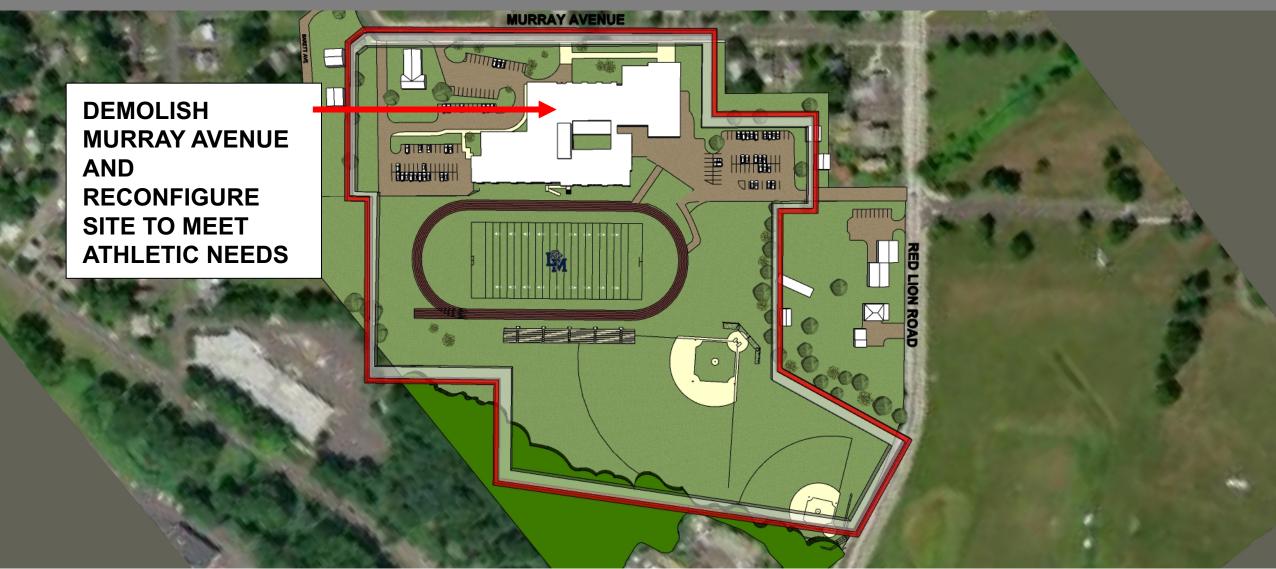














CONSTRUCTION COST

\$59,200,000

PROS

- ADDRESSES LONG-TERM DISTRICT-WIDE CAPACITY NEEDS
- ESTABLISHES 21ST CENTURY NEW HIGH SCHOOL BUILDING
- RESOLVES SITE SAFETY ISSUES AT MURRAY AVENUE

TOTAL PROJECT COST

\$70,900,000

CONS

- DOES NOT ADDRESS
 OPERATIONAL/MAINTENANCE OR
 EDUCATIONAL NEEDS AT NEW MIDDLE
 SCHOOL (ORIGINAL HIGH SCHOOL)
- MAINTAINS MODULARS AT ORIGINAL HIGH SCHOOL



• SITE SURVEY OF EXISTING MURRAY AVE SITE/HICAL HOOL SITE / WETLANDS

 PRELIMINARY DESIGN OF NEW HIGH SCHOOL TO REVIEW CONCEPTUAL OPTIONS FOR BOARD CONSIDERATION

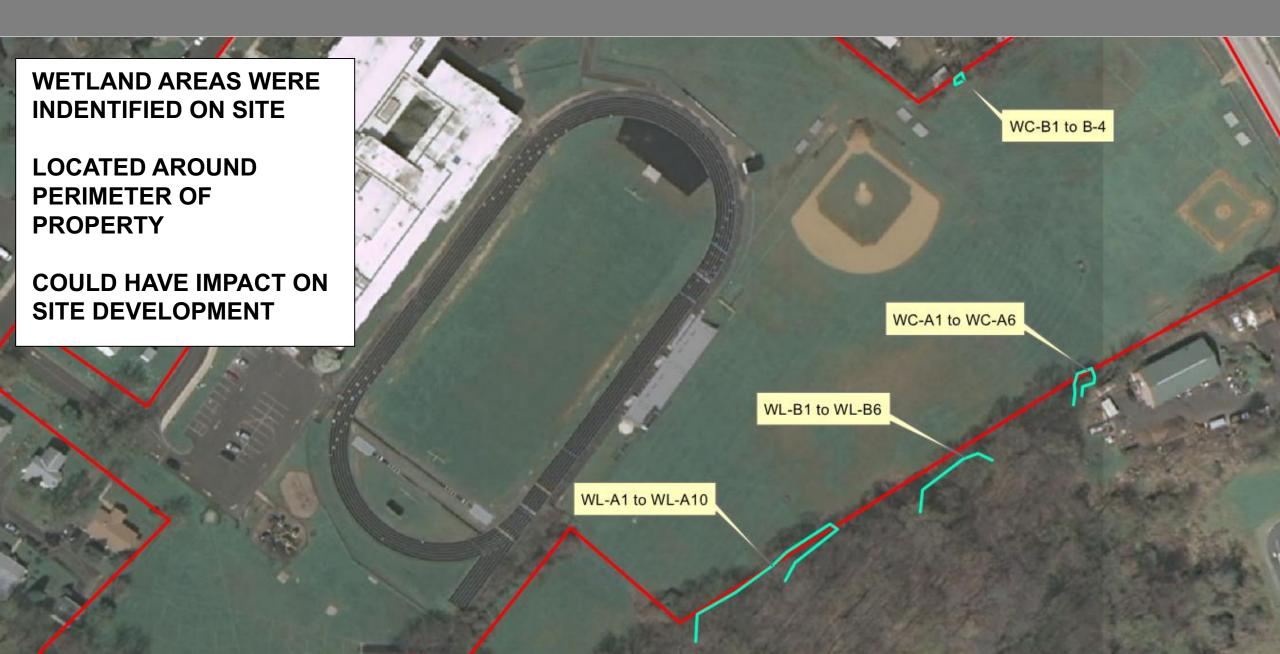


WETLANDS DELINIATION – MURRAY AVENUE SCHOOL





WETLANDS DELINIATION – MURRAY AVENUE SCHOOL



WETLANDS DELINIATION – LOWER MORELAND HIGH SCHOOL

WETLAND AREAS WERE INDENTIFIED ON SITE

LIMITED IMPACT ON SITE DEVELOPMENT IN DESIRED BUILDING LOCATIONS





Timeline.....



- •It takes 12 months to produce construction ready drawings
- •It takes 12 to 16 months to receive all required local and state approvals for building permit
- •It takes 24 to 27 months to build a new school
- •To open a new school in the summer of 2023 design work should begin early 2020



