# MEASURE E UPDATE

# SUPPLEMENTAL INFORMATION

BOARD PRESENTATION March 28<sup>th</sup>, 2022







# MEASURE E PLANNING, CONSTRUCTION, & ARCHITECTURAL UPDATE

### Topics:

- Measure E Synopsis
- Completed Construction Projects
- Construction Status
- Architectural Update
- Future Projects
- Project Budgets & Expenditure Plan
- Recommended Action





	<u>Budget</u>	
Current Program Budget	\$305,056,000	100.0%
<ul> <li>11 Completed construction projects (on budget)</li> </ul>	111,645,000	36.6
<ul> <li>4 projects under construction (on budget)</li> </ul>	94,580,000	31.0
<ul> <li>Program expenses (on budget)</li> </ul>	4,200,000	1.4
<ul> <li>Potential 20 more future classrooms if needed</li> </ul>	29,760,000	9.8
<ul> <li>Projects in planning and design</li> </ul>	50,928,000	16.7
<ul> <li>Current program level contingency remaining</li> </ul>	13,943,000	4.6
Total	\$305,056,000	100.0

- \$206,225,000 (67.6%) of the Measure E construction is bid out
- \$94,631,000 remains for projects (inclusive of program contingency)





Of the \$305,056,000 projected for Measure E at the last Board update: \$210,425,000 has been committed, at or below budget, to accepted bids. \$94,631,000 (including program contingency) is uncommitted.

For improvements yet to be made, the District's core Measure E goals still apply:

- Attain/maintain comparable facilities among high schools.
- Modernize existing classrooms to be on par with new classrooms (most importantly, versatile space; but necessarily also finishes, building systems, technology, acoustics, lighting, windows).
- Take-advantage of opportunities that ongoing construction temporarily affords to realize cost-effective gains in the number and versatility of full-size classrooms, almost certain to be needed as result of the residential building boom in MVLA.



A Window of Opportunity is Currently Open for Two More Classrooms

Projects underway at LAHS present an opportunity to construct a ~2400 SF building with two full size multi-use classrooms and an office in the heart of campus at a much lower cost than what will be possible if the opportunity is missed, as subsequent slides make evident.

The classrooms are separated by a folding wall that opens to create an exceptionally versatile room with a rectangular floor of 1920 SF,  $\sim 31' \times 62'$ .

The currently projected cost of building these classrooms now is \$4.0M, of which \$220,000 is already in the budget for work on the existing structures at the classrooms' site and provides eligibility for future state funding.

Staff strongly recommends Board approval of these improvements.





#### CONSTRUCTION ECONOMICS

ENR's 20-city average cost indexes, wages and material prices. Historical data for ENR's 20 cities can be found at ENR.com/economics

# **Construction Cost Index**

+8.4%

ANNUAL INFLATION RATE

FEB. 2022

1913=100	INDEX VALUE	MONTH	YEAR
CONSTRUCTION COST	12683.97	+1.0%	+8.4%
COMMON LABOR	24511.71	+0.6%	+1.5%
WAGE \$/HR.	47.10	+0.6%	+1.5%

The Construction Cost Index's annual escalation rose 8.4%, while the monthly component rose 1%.

# **Building Cost Index**

+14.9%

ANNUAL INFLATION RATE

FEB. 2022

.68 +1.3	% +14.9%
.05 +0.5	% +2.9%
.37 +0.5	% +2.9%
	2.05 +0.5

Materials Cost Index

MONTHLY INFLATION RATE +2.2%

FEB. 2022

1913=100	INDEX VALUE	MONTH	YEAR
MATERIALS COST	5185.50	+2.2%	+35.2%
CEMENT \$/TON	153.72	+1.5%	+3.6%
STEEL \$/CWT	81.29	+2.3%	+43.1%
LUMBER \$/MBF	972.4	+2.4%	+28.0%

The Building Cost Index was up 14.9% on an annual basis, while the monthly component increased 1.3%.

The MCI rose 2.2% since last month, while the annual escalation rate increased 35.2%.





Escalation Comparison Between National Average and San Francisco

### **ENR's Cost Indexes by City**

1913=100 1967=100	CONSTRUC	TION COST	BUILDII	NG COST	COMMO	N LABOR	SKILLE	D LABOR	MATE	RIALS
R=REVISED	FEB '22: 1913	% CHG, YEAR	FEB '22: 1913	% CHG. YEAR	FEB '22: 1967	% CHG, YEAR	FEB '22: 1967	% CHG. YEAR	FEB '22: 1967	% CHG, YEAR
ST. LOUIS	13365.39	+5.9	7369.00	+12.0	1099.35	+0.3	1046.28	+1.6	1130.32	+28.9
SAN FRANCISCO	14395.70	+9.8	9102.28	+16.5	1046.50	0.0	1091.49	0.0	1424.09	+43.8
SEATTLE	14425.33	+12.5	7648.51	+13.3	1285.63	+6.2	1241.59	+3.8	1251.63	+41.0

Annual Escalation In:

**Building Cost** 

Materials Cost

National

14.9 %

35.2%

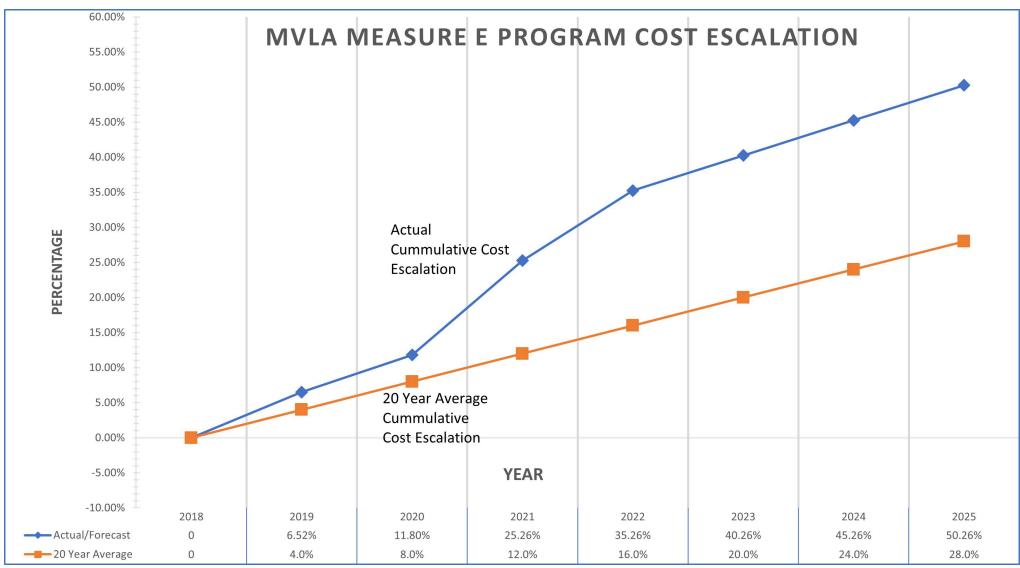
San Francisco

16.5 %

43.8%











### Challenges to our budgets for future Measure E improvements:

- At Measure E approval, \$295M was the expected cost (with contingencies) projected using then current standard-of-care forecasts of construction industry cost escalation. Exceptional, pandemic-induced construction industry inflation has driven the actual cost unforeseeably higher, eroding the purchasing power of funding for future improvements by \$8-10M.
- District incurred \$3M in costs for extra mitigation measures subsequently required by DTSC\* and BAAQMD\* to preserve eligibility for \$20M reimbursement from future state funding.
- DSA IR\*\* A-22: full upgrade to **current** seismic code is required for any significant\*\*\* modification to a building: \$5-8M is the extra cost now forecasted to modernize MVLA's existing interior space.

\* DTSC: Department of Toxic Substances Control. BAAQMD: Bay Area Air Quality Management District.

\*\*DSA IR: Department of the State Architect – Interpretation of Regulations

\*\*\* "Significant modification" as defined by DSA is any modification: costing more than 50% of full replacement cost (currently ~\$500/SF).



### The Overall Challenge:

Total Funds Remaining in Budget from Last Update \$ 94,631,000\*

Currently Projected Costs of Projects Yet to be Done \$108,790,000\*\*

Amount for which Budget Needs to Account \$ 14,159,000

- \* The remaining funds include \$13.94M for contingencies.
- \*\* The projected costs include \$7.2M contingencies in case bids come in at the high end of the currently projected ranges.





Means available to meet the challenge:

Use more of developer fees	\$3,780,000
Use more of deferred maintenance funds	2,111,000
Additional interest earnings from rising rates	326,000
Use more of general fund	36,000
Total	\$6,253,000

Amount for which Budget Needs to Account \$14,159,000 Shortfall if \$7.2M in bid contingency is needed \$7,906,000





Net result of challenges: \$7.9M project budget shortfall

List to cover shortfall:

Note: recoup possible savings from \$7.2M budgeted program contingency, pending bid results.

- 1. Move \$3M for 2 added classrooms from the 4th to the 3rd bond sale (4th bond sale is for 20 additional classrooms).
  - a. \$29.76M budgeted for 20 added classrooms. LAHS 500 Wing Pavilion adds 2 new classrooms: 2/20 classrooms would mean selling \$3M (10%) of bonds.
- 2. Expected to receive \$20M in state funds, date TBD. Defer lower priority projects until receipt of state funds.
  - a. E.g., Library Modernizations \$4M
- Reduce scope of planned projects.
  - a. E.g., Replace windows only in buildings with enlarged classrooms. Potential savings - \$3.5M

### COMPLETED CONSTRUCTION PROJECTS

### Mountain View High School

- New Classroom Buildings
- New Stadium Lighting and PA System (Non-Bond)
- Athletic Field Improvements
- 200-300 Wing Seismic Reinforcement and Restroom Renovation
- 100 Science Wing HVAC & Roof Replacement
- Campus-wide IP Clock/Speaker Replacement

### Los Altos High School

- New Classroom Buildings & Auxiliary Gym
- New Stadium Lighting and PA System (Non-Bond)
- Athletic Field Improvements
- 700 Wing Stair Replacement
- Campus-wide IP Clock/Speaker Replacement



# MVHS NEW CLASSROOM BUILDINGS



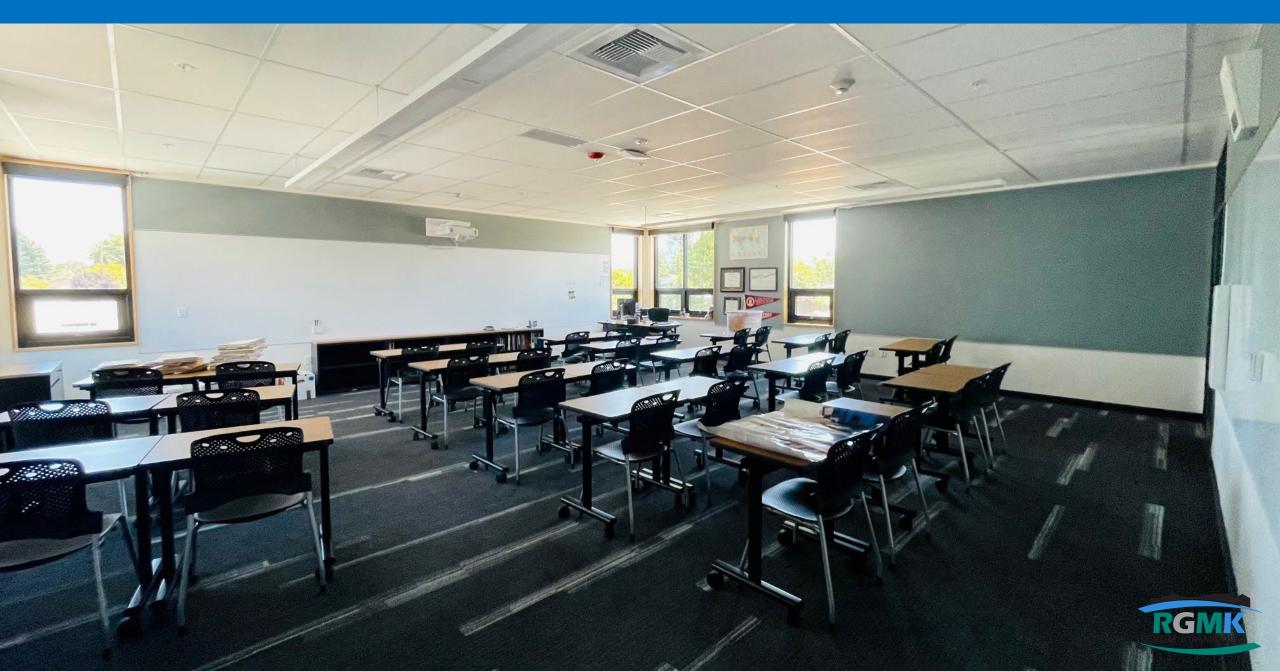
# MVHS NEW CLASSOOM BUILDINGS



# MVHS NEW CLASSOOM BUILDINGS



# MVHS NEW CLASSOOM BUILDINGS



### MVHS STADIUM LIGHTING & PA SYSTEM (NON-BOND)



### MVHS ATHLETIC FIELD



# MVHS 100 SCIENCE WING HVAC & ROOF REPLACEMENT



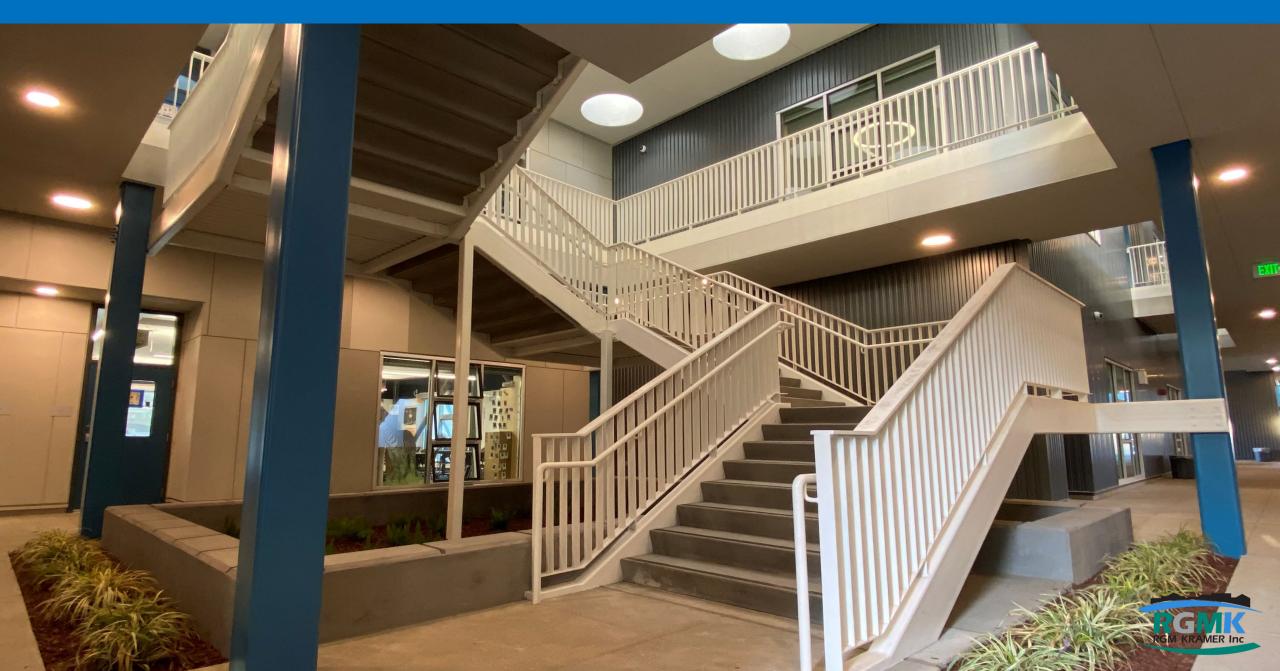
MVHS 200-300 WING SEISMIC REINF. AND RESTROOM RENO.



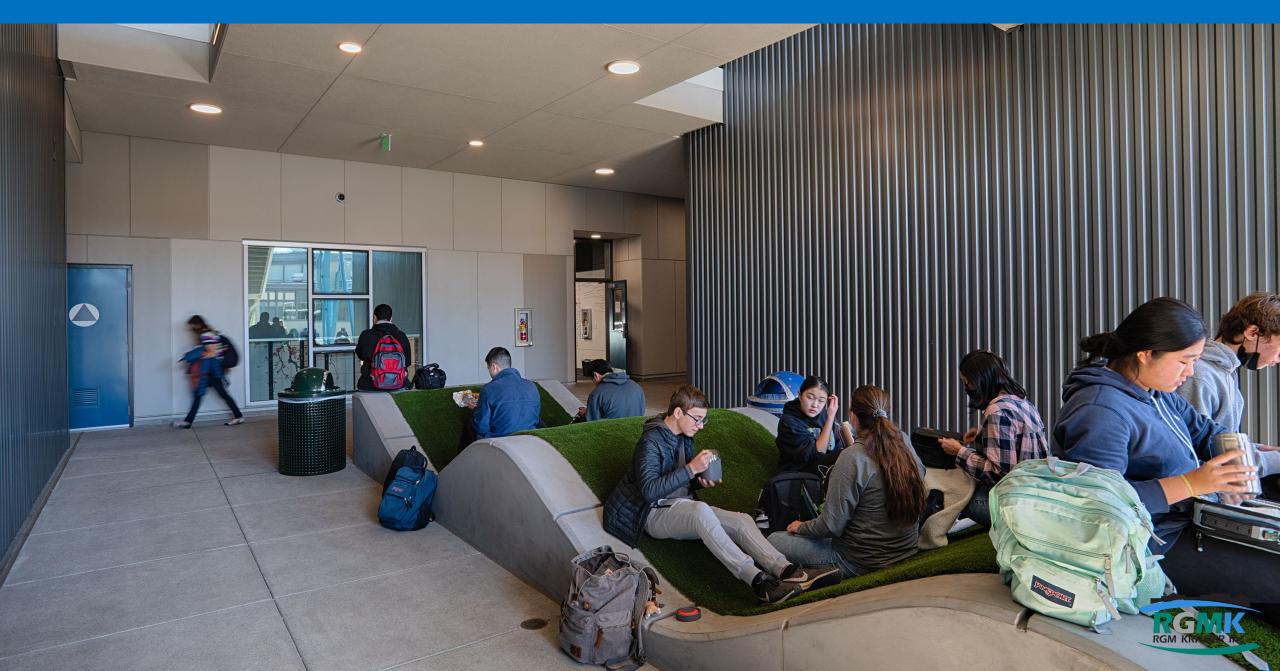
### LAHS NEW CLASSROOM BUILDINGS



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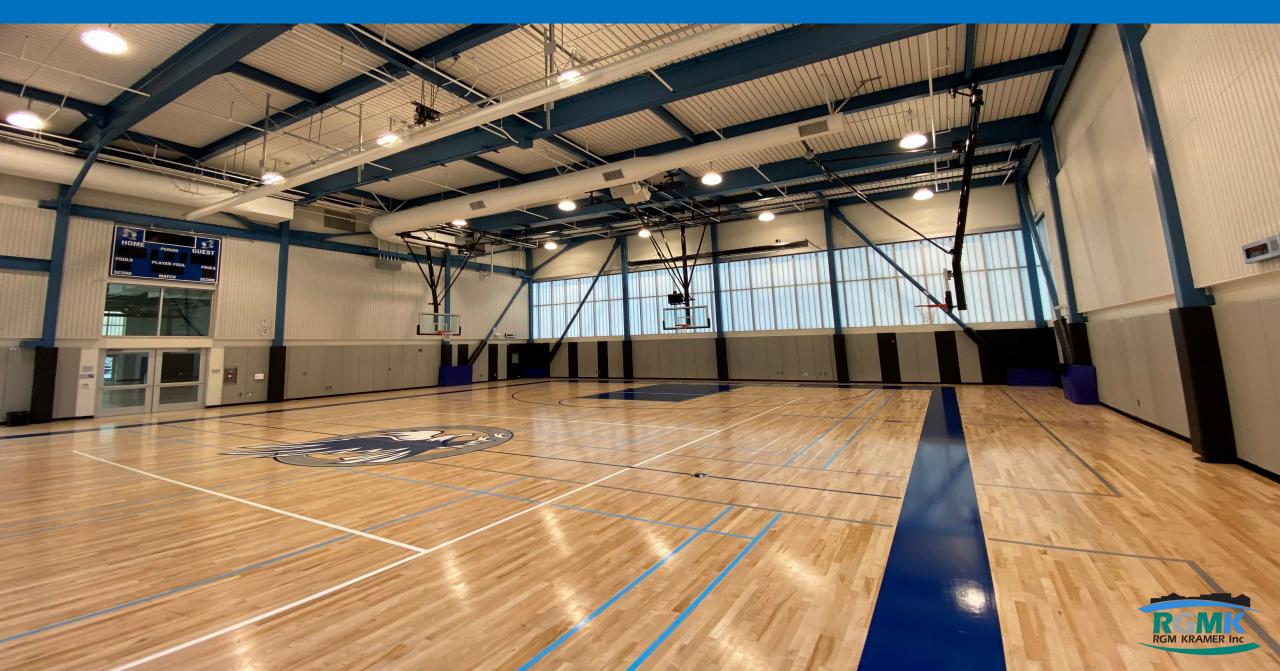
### LAHS NEW CR, GYM, AND ENGINEERING WINGS



### LAHS NEW CLASSROOM BUILDINGS - CULINARY ARTS



### LAHS NEW AUXILIARY GYMNASIUM BUILDING



# LAHS NEW CLASSROOM BLDGS PV SYSTEM



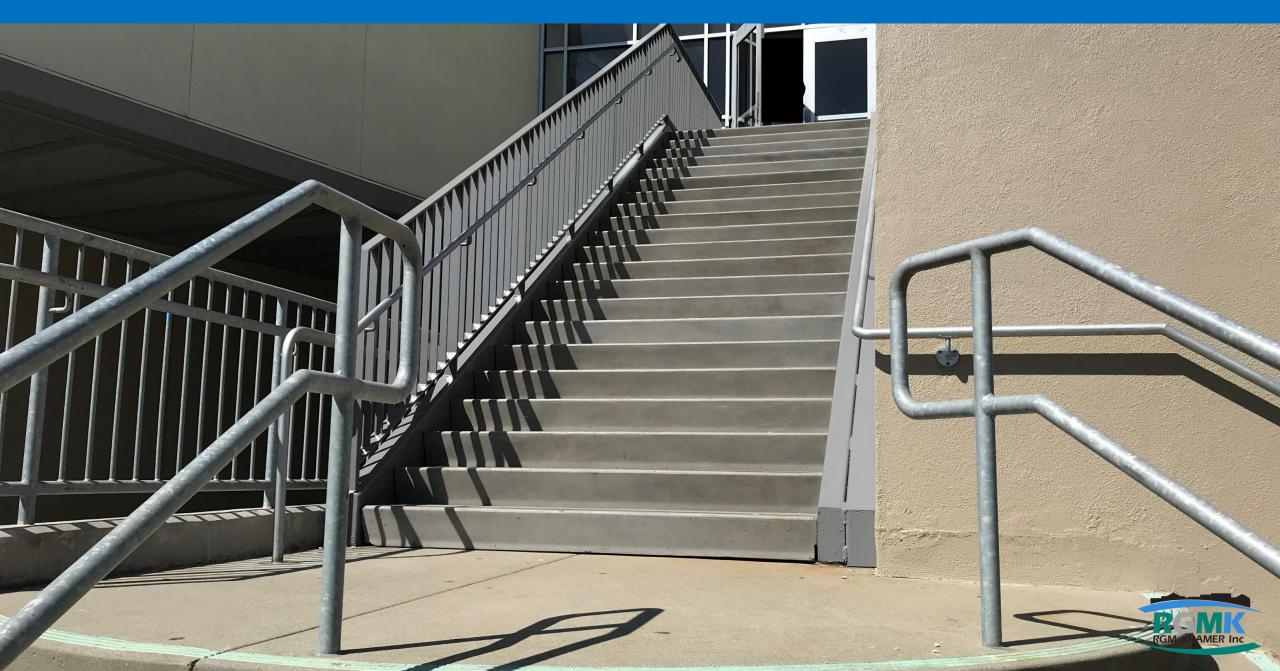
### LAHS STADIUM LIGHTING & PA SYSTEM (NON-BOND)



### LAHS ATHLETIC FIELDS



### LAHS 700 WING STAIR REPLACEMENTS



### MVHS STUDENT SERVICES PROJECT

- Construction Status
  - <u>Site Underground Utilities</u> 85% Complete Remainder will be completed before site work
  - <u>Structural Steel</u> 50% fabricated, with 10% installed. Currently in process
  - Mechanical, Electrical, Plumbing (MEP) 30% Complete on Underground MEP installation, work in process
  - Completion expected Spring 2023



# MVHS STUDENT SERVICES BUILDING



### MVHS AUXILIARY GYMNASIUM PROJECT

- Construction Status
  - <u>Site Underground Utilities</u> 75% Complete Remainder will be completed before site work
  - Structural Steel 95% Complete
  - Steel Framing 75% Complete: Exterior and interior wall framing in process
  - Mechanical, Electrical, Plumbing (MEP) 60% complete:
     Underground and building electrical rough-in and plumbing rough-in in process, along with mechanical ducting and fire sprinkler line
  - Completion expected Fall 2022



# MVHS AUXILIARY GYMNASIUM

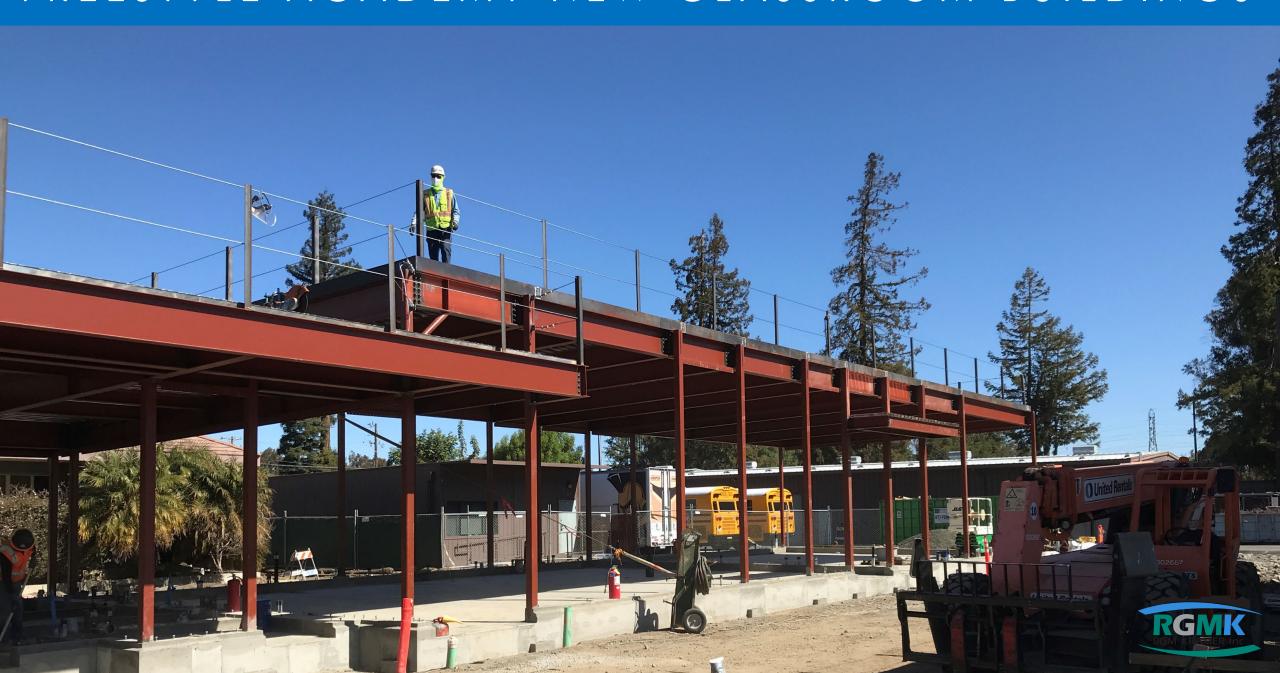


### FREESTYLE ACADEMY PROJECT

- Construction Status
  - <u>Site Underground Utilities</u> 85% Complete
  - <u>Structural Steel</u> 90% Complete
  - <u>Steel Framing</u> 5% Complete
  - Mechanical, Electrical, Plumbing (MEP) 15% complete
  - Site Work 50% Complete
  - Completion expected Fall 2022



### FREESTYLE ACADEMY NEW CLASSROOM BUILDINGS



#### LAHS STUDENT SERVICES BLDG PROJECT

- Construction Status
  - <u>Site Underground Utilities</u> 40% Complete Electrical, sanitary sewer, and storm drain line work in process
  - <u>Structural Steel</u> 30% Complete: First floor is complete. Second floor and roof canopy installation in process
  - Mechanical, Electrical, Plumbing (MEP) 35% complete: Electrical and Plumbing rough-ins underway in the building slab only
  - Site Work Tentatively expected to begin in June 2022
  - Completion expected Spring 2023



### LAHS STUDENT SERVICES BUILDING



### ARCHITECTURAL UPDATE



# Mountain View High School Modernization and additions to Classroom Wings 100-400

3535 TRUMAN AVE, MOUNTAIN VIEW, CA 94040



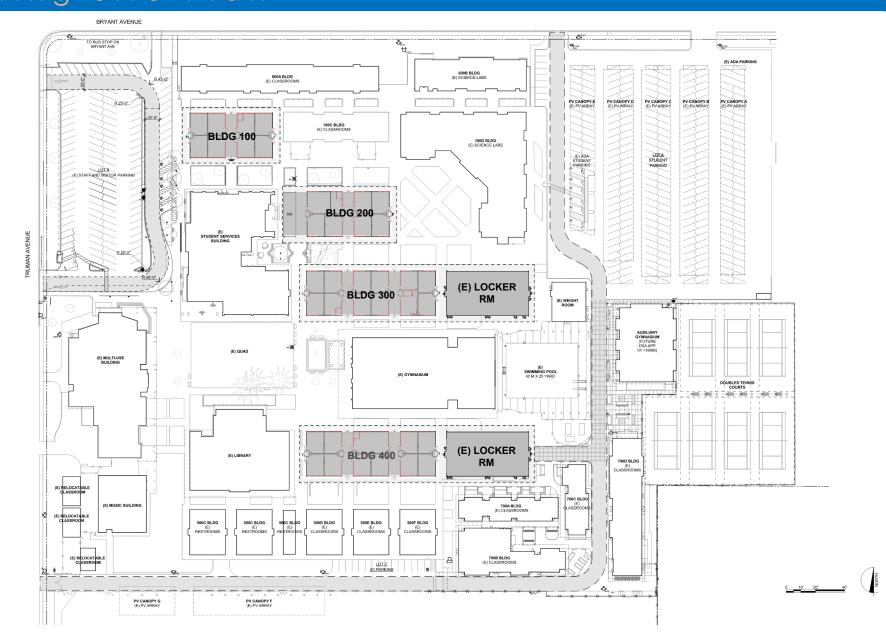






### MOUNTAIN VIEW HS

Modernization and Additions to Classroom Wings 100-400 Existing Site Plan





#### MOUNTAIN VIEW HS

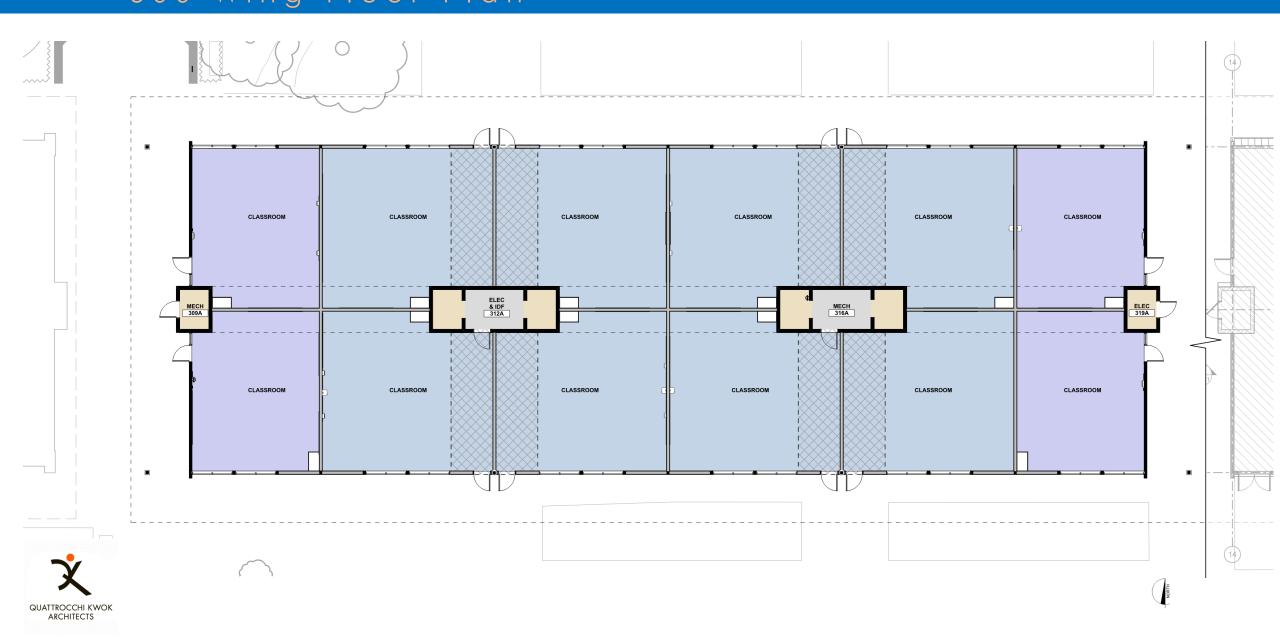
Modernization and Additions to Classroom Wings 100-400 300 Demolition Plan



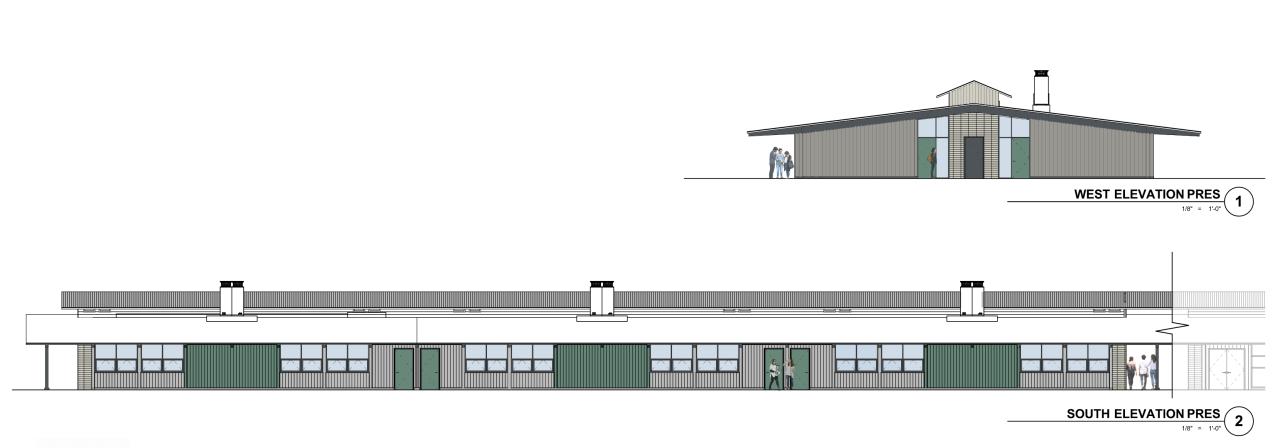




## MOUNTAIN VIEW HS Modernization and Additions to Classroom Wing 100-400 300 Wing Floor Plan



#### MOUNTAIN VIEW HS Classroom Wing 300 Exterior Elevations



## Los Altos High School 500 WING PAVILION

201 ALMOND AVE, LOS ALTOS, CA 94022









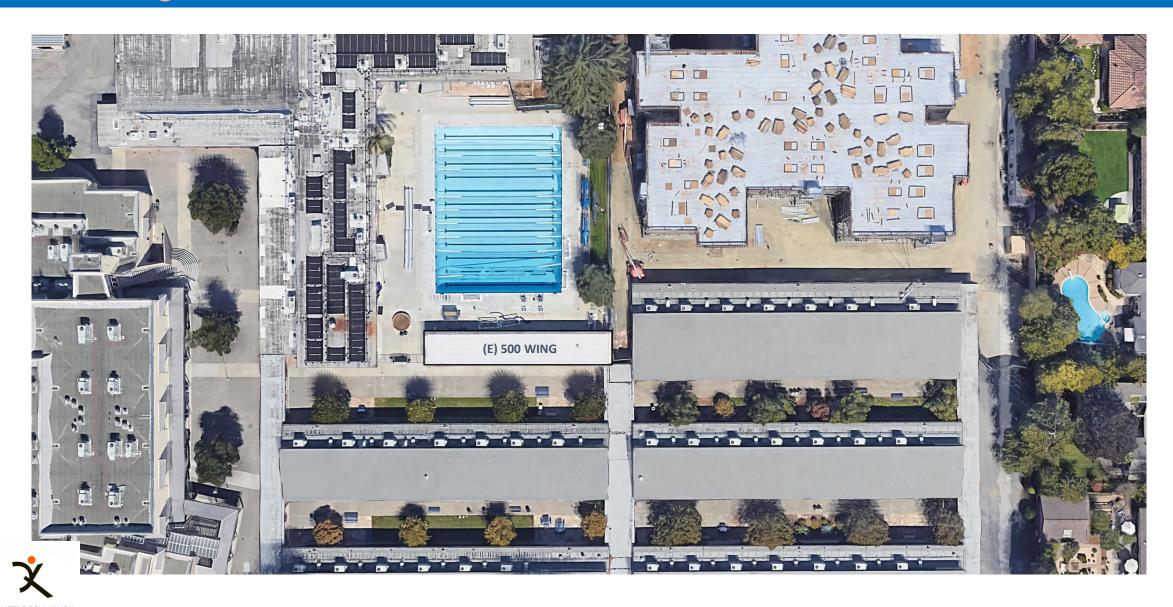
### LOS ALTOS HS 500 WING PAVILION View from Pool Deck



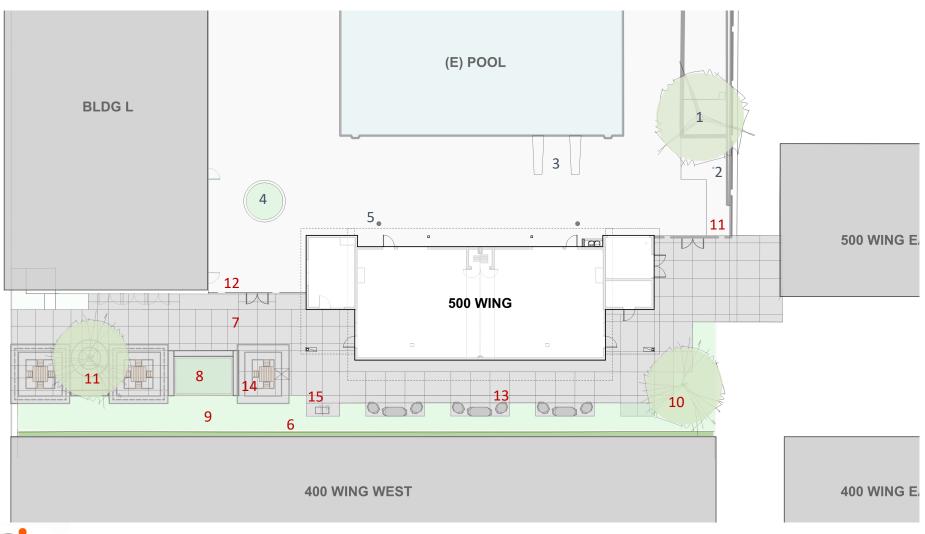
### LOS ALTOS HS 500 WING PAVILION View from Grove



### LOS ALTOS HS 500 WING PAVILION Existing Site Plan



### LOS ALTOS HS 500 WING PAVILION Site Plan

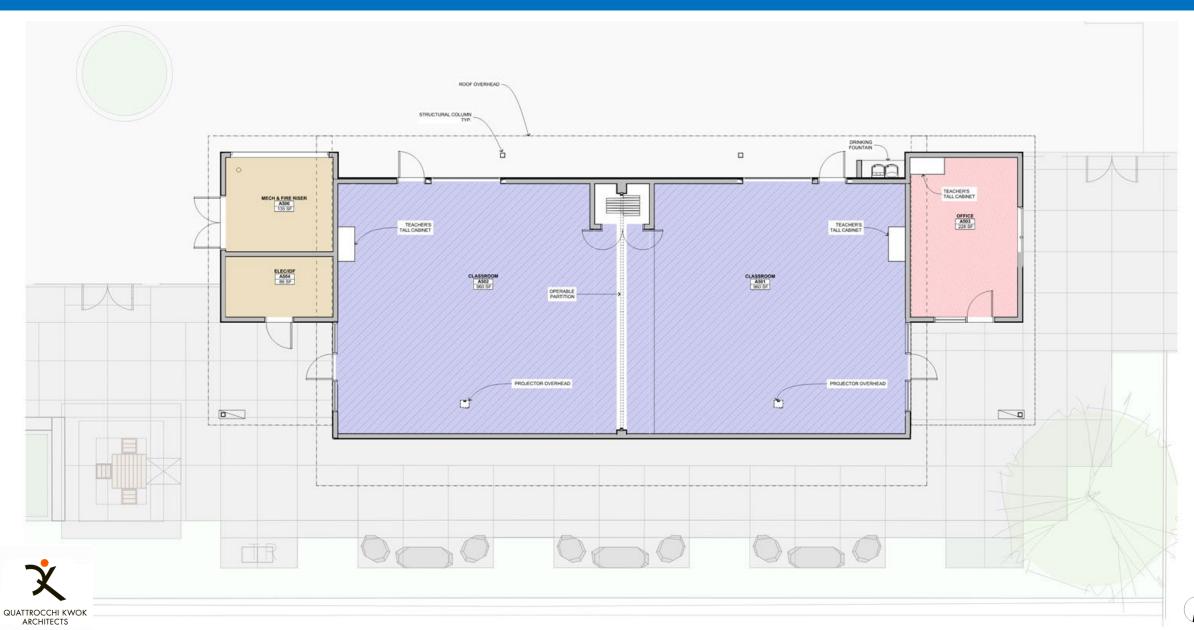


- 1. EXISTING TREE TO REMAIN
- 2. EXISTING FLAGPOLE TO REMAIN
- 3. EXISTING POOL EQUIPMENT TO REMAIN
- 4. EXISTING PLANTER TO REMAIN
- 5. EXISTING SPORTS LIGHTING TO REMAIN
- 6. 18" MAINTENANCE GRAVEL BAND
- 7. STANDARD CONCRETE
- 8. BIORETENTION PLANTING
- 9. PLANTING AREA
- 10. SMALL TREE
- 11. TREE IN GRATE
- 12. ORNAMENTAL FENCE AND GATES
- 13. PRECAST BLOCK SEATING
- 14. PICNIC TABLE
- 15. TRASH AND RECYCLING

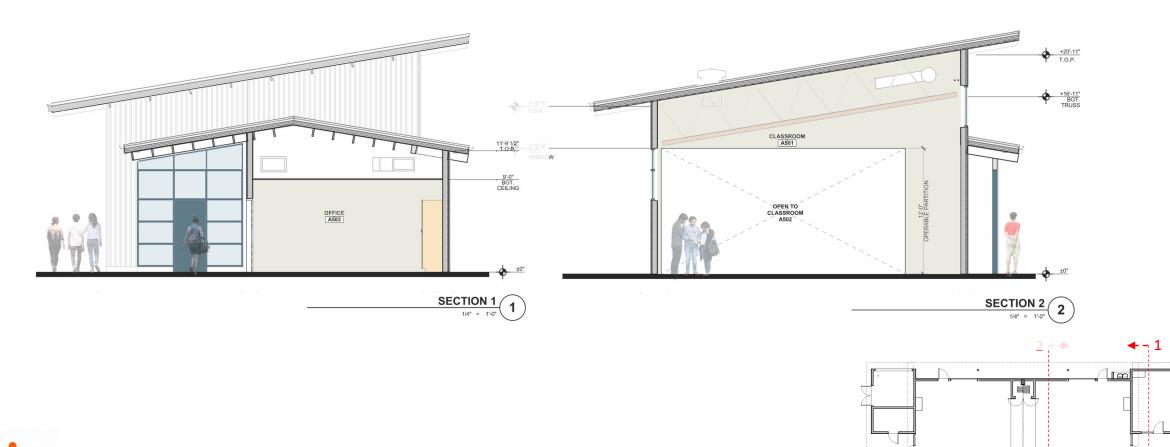




### LOS ALTOS HS-500 WING Floor Plan

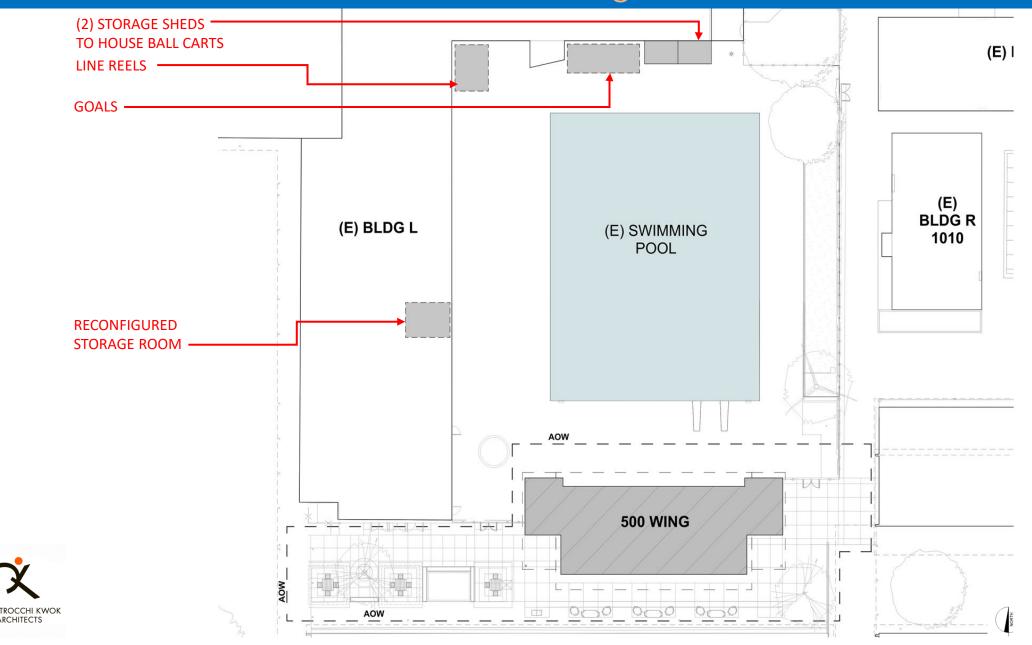


### LOS ALTOS HS 500 WING PAVILION Sections





### LOS ALTOS HS 500 WING PAVILION Site Plan- Additional Storage



### Future Projects







### LOS ALTOS HS Future Projects

MUSIC BUILDING MODERNIZATION AND ADDITION

**MODERNIZATION** 

**CAFETERIA** 



- GYM

LIBRARY

**MODERNIZATION** 

**MODERNIZATION** 



### MOUNTAIN VIEW HS Future Projects



**GYM MODERNIZATION** 

QUATTROCCHI KWOK ARCHITECTS

**CAFETERIA** 

LIBRARY

MODERNIZATION-

**MUSIC BUILDING MODERNIZATION** 

22-01-03 updated program budget

#### Revenue:

Bond Sales \$295,000,000

Less Bond issuance costs (estimate) <1,101,000> (Est. based on first and second sale)

Other Funding Sources 10,848,000

Interest (Assumed 1% annual) 6,744,000

Total Estimated Revenue \$311,491,000

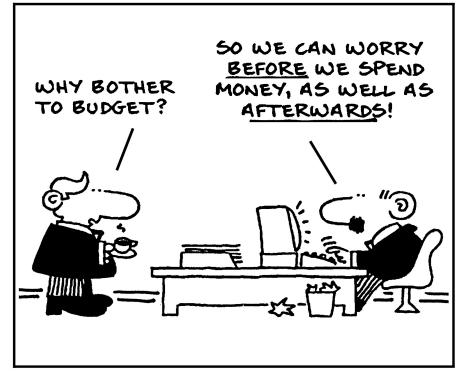
Expended as of 22-3-3 \$132,670,000 (43%)

Under Contract as of 22-3-3 \$210,610,000

Since last update, we have made some adjustments to the program budget as a result of:

Increased Projected Other Funding Sources

Next Bond Sale: \$65M planned for Spring 2022



(Est. of Developer fees, Maintenance funds)



Mountain View HS Projects	Budget Forecast	Start Design	Start Construction	Complete Project			
Completed Projects	<b>.</b>						
✓ Interim Housing	\$ 2,100,000	Summer 2018	Winter 2019	Done! Spring 2019			
✓ New Classroom Building	\$40,700,000	Spring 2018	Fall 2019	Summer/Fall 2021			
✓ Athletic Field Improvements	\$ 3,900,000	Fall 2019	Summer 2021	Winter 2022			
✓ 200-300 Seismic Reinf. & RR Reno.	\$ 2,450,000	Summer 2019	Fall 2020	Summer 2020			
√ 100 Science Wing HVAC/Roof Repl.	\$ 1,395,000	Summer 2019	Fall 2020	Summer 2020			
✓ Site Repairs and Improvements	\$	Scope captured in o					
Projects in Construction							
☐ New Student Services Building	\$36,100,000	Spring 2019	Summer 2021	Spring 2023			
☐ New Auxiliary Gymnasium	\$11,600,000	Spring 2019	Summer 2021	Fall 2022			
Upcoming Projects / Projects in Design							
☐ Modernize and Expand CR's (phased)	\$18,750,000	Fall 2020	Spring 2023	Summer 2025			
Facility Assessment Repairs	\$12,500,000	Summer 2021	Throughout Progran	n			
Packard Hall Modernization	\$ 1,100,000	Spring 2022	Spring 2023	Fall 2023			
Gymnasium Modernization	\$ 5,860,000	Spring 2022	Spring 2023	Winter 2024			
Library Modernization	\$ 2,100,000	Spring 2022	Spring 2024	Fall 2024			
Repurpose Cafeteria into Perf. Arts	\$ 4,200,000	Spring 2022	Spring 2023	Fall 2024			
	. , ,	, 0	1 0	RGM			

Los Altos HS Projects	<b>Budget Forecast</b>	Start Design	Start Construction	Complete Project
Completed Projects	\$ 2.424.000	Summer 2018	Winter 2019	Donal Spring 2010
<ul><li>✓ Interim Housing</li><li>✓ New Classroom Building</li></ul>	\$ 3,434,000 \$38,700,000	Spring 2018	Fall 2019	Done! Spring 2019 Summer 2021
✓ New Auxiliary Gymnasium	\$14,800,000	Spring 2018	Fall 2019	Summer 2021
✓ Athletic Field Improvements	\$ 3,900,000	Fall 2019	Summer 2021	Winter 2022
✓ Site Repair/Improvement– 700 Stairs	. , ,	Fall 2019	Spring 2021	Summer 2021
Projects in Construction				
☐ New Student Services Building	\$30,580,000	Spring 2019	Summer 2021	Spring 2023
Upcoming Projects / Projects in Design				
Facility Assessment Repairs	\$10,250,000	Fall 2018	Throughout Progra	m
Music Building Addition	\$ 3,500,000	Winter 2021	Fall 2023	Spring 2024
500 Wing West Replacement/Pavilion	n \$ 4,000,000	Summer 2021	Spring 2023	Spring 2024
Gymnasium Modernization	\$ 3,520,000	Spring 2022	Spring 2023	Winter 2024
Library Modernization	\$ 1,870,000	Spring 2022	Winter 2024	Summer 2024
☐ Kitchen Cafeteria Bldg. Modernization	n \$ 4,180,000	Spring 2022	Spring 2023	Winter 2024



#### Other:

<u>Project</u>	<b>Budget Forecast</b>	Start Design	<b>Start Construction</b>	Complete Project
Freestyle Academy	\$ 16,300,000	Spring 2019	Fall 2021	Fall 2022
20+ Additional Classrooms	\$ 29,760,000	Winter 2023	Spring 2024	Summer 2025
Program Level Expenses	\$ 4,200,000	N/A	N/A	N/A
Program Contingency	\$ 7,200,000	N/A	N/A	N/A
Total Planned Expenditures:	\$319,349,000			
Expended to date:	\$ <u>132,670,000</u>			
Program Balance:	\$178,807,000			

Citizen Oversight Committee (COC) Meeting: December 9, 2021

Next COC Meeting: Spring 2022



#### RECOMMENDED ACTION

#### MVLAHSD MEASURE E PROJECT BUDGET REVISIONS



PROJECT	CURRENT BUDGET		REVISION		NEW BUDGET	
MOUNTAIN VIEW HIGH SCHOOL		DODGET				DODGET
MVHS New Construction	١.					
Student Services Student Union Building	\$	38,115,000	<b>&lt;</b> \$	2,015,000>	\$	36,100,000
Two Story Classroom & Lab Building	\$	42,720,000	<\$	2,020,000>	\$	40,700,000
Auxiliary Gymnasium / Multi-Use Facility	\$	11,600,000			\$	11,600,000
MVHS Building Modernization						
Gymnasium Modernization	\$	5,860,000			\$	5,860,000
Library Modernization	\$	2,100,000			\$	2,100,000
Repurpose exist. Cafeteria Bldg. for Performing Arts	\$	4,200,000			\$	4,200,000
Packard Hall Modernization	\$	1,100,000			\$	1,100,000
24 Classroom Expansion & Modernization of 100-400 Wings	\$	5,390,000	\$	13,360,000	\$	18,750,000
200-300 Wing Seismic Reinf. & Restroom Modernization	\$	2,750,000	- <\$	300,000>	\$	2,450,000
MVHS Campus Site Repairs & Improvements						
ADA, Storm, Signage, Courtyard Combined	<\$	750,000>	<\$	750,000>		
Athletic Fields Improvements	\$	3,900,000			\$	3,900,000
MVHS Facility Assessment Improvements						
Exist. Bldg's Facility Assessment Repairs Combined	\$	9,723,000	\$	2,777,000	\$	12,500,000
Bldg 100 Science CR HVAC/Roof	\$	1,577,000	<\$	182,000>	\$	1,395,000
MVHS Interim Housing & Relocation During Const.	\$	1,837,000	\$	263,000	\$	2,100,000
LOS ALTOS HIGH SCHOOL						
LAHS New Construction						
Student Services Student Union Building	\$	31,080,000	<\$	500,000>	\$	30,580,000
Two Story Classroom Bldg. & Aux Gym/Multi-Use	\$	53,500,000			\$	53,500,000
500 Wing West Replacement/Pavilion	\$	220,000	\$	3,780,000	\$	4,000,000
Music Building Addition	\$	1,045,000	\$	2,455,000	\$	3,500,000
LAHS Building Modernization						
Existing Gymnasium Modernization	\$	3,520,000			\$	3,520,000
Existing Library Modernization	\$	1,870,000			\$	1,870,000

#### MVLAHSD MEASURE E PROJECT BUDGET REVISIONS



Kitchen Cafeteria Building Modernization	\$ 4,180,000			\$ 4,180,000
LAHS Campus Site Repairs & Improvements				
ADA, Storm Drainage, Signage, Stairs Combined	\$ 580,000	<\$	180,000>	\$ 400,000
Athletic Fields Improvements	\$ 3,900,000			\$ 3,900,000
LAHS Existing Building Repairs & Improvements				
Exist. Bldg's Facility Assessment Repairs Combined	\$ 6,920,000	\$	3,330,000	\$ 10,250,000
LAHS Interim Housing 2018	\$ 134,000			\$ 134,000
LAHS Interim Housing 2019 & Relocation During Const.	\$ 3,282,000	\$	18,000	\$ 3,300,000
FREESTYLE ACADEMY	\$ 15,200,000	\$	1,100,000	\$ 16,300,000
20 ADDITIONAL CLASSROOMS SITE TBD	\$ 29,760,000			\$ 29,760,000
PROGRAM EXPENSES	\$ 4,300,000	<\$	100,000>	\$ 4,200,000
PROGRAM CONTINGENCY	\$ 13,943,000	<\$	6,743,000>	\$ 7,200,000

Total expected shortfall: \$7.9M

List to cover shortfall:

Note: recoup possible savings from \$7.2M budgeted program contingency, pending bid results.

- 1. Move \$3M for 2 added classrooms from the 4<sup>th</sup> to the 3<sup>rd</sup> bond sale (4<sup>th</sup> bond sale is for 20 additional classrooms).
  - \$29.76M budgeted for 20 added classrooms. LAHS 500 Wing Pavilion adds 2 new classrooms: 2/20 classrooms would mean selling \$3M (10%) of bonds.
- 2. Expected to receive \$20M in state funds, date TBD. Defer lower priority projects until receipt of state funds.
  - a. E.g., Library Modernizations \$4M
- 3. Reduce scope of planned projects.
  - a. E.g., Replace windows only in buildings with enlarged classrooms. Potential savings \$3.5M

Facility committee recommends approving New Project Budgets, proceeding with #1 and #2 in the List to cover shortfall, and at District staff discretion: defer \$1M in future projects and/or replace \$1M less in windows, if necessary.



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## NEXT UPDATE MAY/JUNE 2022

### THANK YOU!





