



# Recommendations

6



## 6 RECOMMENDATIONS

Based on the variety of challenges, priorities, and projects summarized in preceding chapters, the District will need to balance the availability of funds with ongoing obligations, investments in high priority areas, addressing short-term growth, and continued planning for long-term growth.

With upwards of \$259 million budget potentially becoming available as a result of the proposed bond measure in 2020, MVWSD is recommending funding the following:

- Priority 1-Safety and Efficiency Projects: \$102.1 mil
- Priority 1 Short-Term Growth: \$34.8 mil
- Staff Housing: \$60 mil
- Certificates of Participation (COP) repayment: \$40 mil

As summarized in Tables 6-1 and 6-2, available funds are only expected to be sufficient to fund priority projects addressing safety, energy efficiency, and short-term growth.

Some of these projects address facility needs identified in the earlier 2010 SFIP, while others address evolving District priorities. Projects addressing short-term growth are proposed where substantial growth is occurring at schools already beyond capacity.

The District will have the time and flexibility to study strategies to address long-term growth in more depth together with the Board, staff and the community over the next 2 to 3 years.

**Table 6-1: Recommended Projects Summary**

SITE		ENROLLMENT		RECOMMENDATIONS <i>(Facilities)</i>		
School	Growth <i>(Short-Term)</i>	Capacity <i>(Realistic)</i>	Priority 1 Projects	Short-Term Growth	Long-Term Growth	
<b>Bubb Elementary School (ES)</b>	475 to 503 (5.8%)	432 (116%)	HVAC, Perimeter Controls, Lighting, Windows, Solar	-	-	
<b>Castro ES</b>	327 to 357 (9.2%)	312 (114%)	Storage, Perimeter Controls, Shade Structure, Parking, Solar	Add Storage	Explore strategies to add 3 flex rooms	
<b>Huff ES</b>	546 <i>(minimal growth)</i>	488 (112%)	HVAC, Perimeter Controls, Lighting, Windows, Shade Structure, Restroom, Solar	Add 1 permanent portable	-	
<b>Landels ES</b>	446 to 566 (26.9%)	504 (112%)	HVAC, Perimeter Controls, Lighting, Windows, Shade Structure, Restroom, Solar	New 2-Story Admin/ Classroom Bldg, Frontage Safety	-	
<b>Mistral ES</b>	379 <i>(minimal growth)</i>	392 (97%)	HVAC, Perimeter Controls, Windows, Shade Structure, Restroom, Solar	-	-	
<b>Monta Loma ES</b>	342 to 406 (18.7%)	460 (88%)	HVAC, Perimeter Controls, Windows, Plumbing, Shade Structure, Solar	-	-	
<b>Stevenson ES</b>	430 <i>(minimal growth)</i>	460 (93%)	Storage, Perimeter Controls, Shade Structure, Solar	Add Storage	-	
<b>Theuerkauf ES</b>	332 to 552 (66.3%)	672 (82%)	HVAC, Perimeter Controls, Electrical, Windows, Plumbing, Shade Structures, Play Surface, Solar	-	-	
<b>Vargas ES</b>	356 to 474 (33%)	492 (96%)	Storage, Shade Structure, Solar	Add Storage	-	
<b>Crittenden MS</b>	647 to 848 (31.1%)	1,008 (84%)	Security, Perimeter Controls, Electrical, Shade Structure, Solar	-	Explore strategies to reorient campus and increase capacity	
<b>Graham MS</b>	861 to 969 (12.5%)	1,176 (82%)	HVAC, Perimeter Controls, Windows, Shade Structure, Solar	-	Explore strategies to increase capacity	
<b>Cooper School Site</b>	-	-	-	-	Explore strategies to consolidate district support functions	



## 6.1 Priority 1: Safety & Efficiency

Priority 1 projects focus on the District's highest priorities at existing schools, namely safety and energy efficiency.

Safety-related projects include the following:

- Perimeter controls which enable schools to control and monitor access onto campuses during school hours.
- A secondary perimeter to secure school property after school hours when playfields and playgrounds are accessible to the community.
- Improving site lighting in parking, playground and other open areas of campus.
- Providing separate adult restrooms at playfields for use by the community after school hours.

Energy efficiency projects include the following:

- Replace mechanical HVAC systems which are at the end of their service lives.
- Replace windows with high-performing, thermal, insulating glass.
- Add shade structures to each school campuses, reducing heat island effects and providing sheltered, outdoor spaces for students.
- Solar arrays to offset electrical demands at each school site.
- Replace and repair site plumbing lines where service disruptions occur on a regular basis.

See Table 6-2 for a listing of Priority 1 safety and energy efficiency projects by school sites.

## 6.2 Priority 1: Short-Term Growth

As summarized in Table 6-1 and as included in the project lists in Table 6-2, the MFP is recommending classroom-related projects that expand enrollment capacity where schools are subject to high-levels of growth and exceed its existing capacity.

Storage-related projects are also recommended where storage deficiencies are forcing schools to reuse higher value facilities to accommodate its storage needs, namely at the District's newer schools, namely Castro, Stevenson and Vargas.

At these sites, schools apply a range of workarounds to address storage capacity deficiencies, including:

- Use of non-storage facilities for storage (e.g., classrooms, offices, meeting rooms)
- Storage of school equipment and furnishings off-site (e.g, adjoining school, district facilities, etc.)
- Frequent movement of materials and equipment due to competing use of available storage facilities.

Short-term projects at Crittenden and Graham Middle Schools are limited in scope due to the potential for large-scale redevelopment to address long-term growth.

See Table 6-2 for a listing of Priority 1 short-term growth projects by school sites.

## 6.3 Long-Term Growth

Impacts from long-term residential growth are not expected to become acute for the next 7 to 10 years.

This provides the District an opportunity to engage in more detailed planning over the next 2 to 3 years to finalize strategies to address long-term growth. Actions during this period may include, but are not limited to the following:

- Continue negotiations with landowners, developers and the City for new school sites.
- Monitor actual growth rates from residential projects, including enrollment growth at specific school sites.
- Evaluate less capital-intensive alternatives to address growth and expand capacity at key sites.
- Identify leading/dependent actions necessary to redevelop middle school sites.
- Develop a plan to consolidate District programs/ services (e.g., preschool, MOT, food service, etc.).
- Continue to engage in a planning process with the Board, school representatives and the community.

## 6.4 Staff Housing

As part of a 716-unit residential project at 777 West Middlefield Road, the District has entered into a partnership with a private developer to provide 144 rental units for District staff at below market rates. Construction of the project is expected to be completed in 2022. The District is budgeting approximately \$60 million to support this housing initiative.

## 6.5 Certificate of Participation Repayment

The District will continue to repay the \$40 mil COP that funded the construction of Vargas.



**Table 6-2: Recommendations-Priority 1 Projects**

PRIORITY		PROJECT		QUANTITY		PROJECT COST		PROJECT NOTES			
No.	Type	Type	Description	Location	Length (lf)	Area (sf)	SY2024	Totals	Proposed Action	Background	
<b>TOTAL PRIORITY 1 PROJECTS (SAFETY, EFFICIENCY, GROWTH):</b>								<b>136,938,273</b>			
<b>BUBB ELEMENTARY SCHOOL</b>							<b>PROJECTS TOTAL:</b>	<b>\$</b>	<b>8,155,300</b>		
1	SAFETY	Perimeter Controls (School Hours)	Fences, Gates, Access Controls/CCTV (Ornamental)	Hans Ave. frontage	425		\$ 328,200		Hans Ave. Frontage: fence (8') & 2 gates Fence Type: Ornamental (Ameristar or sim.)	Secure Campus during School Hours: Front: Hans Ave. Rear: Barbara Ave./Bubb Park	
1	SAFETY	Perimeter Controls (School Hours)	Fences, Gates, Access Controls/CCTV (Chain Link)	Barbara Ave./Bubb Park frontage	1,150		\$ 394,900		Barbara Ave: fence (8') & 3 gates (1 vehicle) Fence Type: Chain Link (vinyl-coated, black)	Secure Campus during School Hours: Front: Hans Ave. Rear: Barbara Ave./Bubb Park	
1	SAFETY	Lighting	Install Site Lighting in Parking and Playground Areas	Parking, Playground		156,000	\$ 700,100		Low level perimeter area (safety) lighting around parking, walkways, playground, driveways.	Improve site lighting for after hours safety/security.	
1	ENERGY EFFICIENCY	Mechanical Upgrade	Replace Existing HVAC Systems	Bldgs. 1, 3, 4, 5		22,480	\$ 1,844,600		New HVAC units in 4 single-story classroom buildings	Controls/Bldg Mgmt Systems replaced in 2017. New rooftop HVAC units on bldgs.	
1	ENERGY EFFICIENCY	Window Replacement	Replace existing glass windows with thermal insulating glass.	Bldgs. 1, 2, 3, 4, 5, 6		30,667	\$ 3,525,900		Replace all exterior windows on one-story classroom and admin buildings.	Assume replace entire window assembly/framing. Energy-related savings project.	
1	ENERGY EFFICIENCY	Alternative Energy: Solar	Install Solar Arrays (Roof Mounted)	Roof of New 2-Story Admin/Classroom Bldg.		7,200	\$ 1,361,600		Roof mounted atop new 2-story building. Area equals Engie plus 10%.	Engie plan shows two free-standing arrays over playground (1-71 kW, 2-47 kW). 6,555 sf.	
<b>CASTRO ELEMENTARY SCHOOL</b>							<b>PROJECTS TOTAL:</b>	<b>\$</b>	<b>4,190,200</b>		
1	GROWTH (SHORT-TERM)	Storage	Add Storage for General School Supplies/Eqpt., Classrooms, and PE/Recreation	Bldgs. B (PE/Rec) Bldg. C (Classrooms) Bldg. F/New (General/PE/Rec)		1300	\$ 916,700		Add storage closets for classrooms, general school use, and PE/recreation. MUR to regain use of its in-house storage (now used for other purposes).	Storage is short on campus. Extensive workarounds (PE, general, classrooms).	
1	SAFETY	Perimeter Controls-1 (School Hours)	Fences, Gates, Access Controls/CCTV (Chain Link)	Latham St./Castro Park	500		\$ 261,600		Secure Campus during School Hrs @ Latham St./Castro Park frontage Existing fences/gates along frontage @ Toft Ave (pickup/dropoff)-Bldgs A/B/C	Campus controlled along Toft St but open to Castro Park/Latham St.	
1	SAFETY	Perimeter Controls-2 (After Hours)	Fences, Gates, Access Controls/CCTV (Ornamental)	Bldgs. A/B/C/G Playground/Castro Park	180		\$ 248,500		Secure School Property After Hrs: Edge of Bldgs A/B/C/G facing playground Existing fences/gates along frontage @ Toft Ave (pickup/dropoff)-Bldgs A/B/C	Campus is unsecured after hours/open to Castro Park/Latham St.	
1	SAFETY	Staff Parking	New Asphalt Paving/Striping	Existing staff parking next to Bldg. C & F		6300	\$ 190,100		Existing area originally intended for classrooms. 2" top layer of asphalt with 6" substrate. Parking needs 4"-6" asphalt cover.	No other site for staff parking available. Site is short 20+/- stalls if existing parking eliminated. Only 18 stalls available in Toft St. lot.	
1	ENERGY EFFICIENCY	Shade Structure	New Shade Structure with roof-mounted solar array	Playground		4500	\$ 1,442,400		Same as Mistral project, shared with Mistral.	No shade structure constructed with recent project.	
1	ENERGY EFFICIENCY	Alternative Energy: Solar	Install Solar Arrays (Roof Mounted)	Playground/ Future Shade Structure		2250	\$ 1,130,900		Roof mounted over future shade structure	Engie plan shows two free-standing arrays on Mistral-Castro campus (1-Mistral parking, 1-Shade Structure/Playground). 5,370 sf (45 kW).	
<b>HUFF ELEMENTARY SCHOOL</b>							<b>PROJECTS TOTAL:</b>	<b>\$</b>	<b>10,222,073</b>		
1	SAFETY	Perimeter Controls (School Hours)	Fences, Gates, Access Controls/CCTV (Ornamental)	Martens Ave. frontage, & rear playfield gates	330.00		\$ 272,300		Secure Campus during School Hours: Improve Perimeter Security along public frontages, create controlled entry point(s).		
1	SAFETY	Lighting	Install Site Lighting in Parking and Playground Areas	Parking, Playground		154,000.00	\$ 691,100		Improve site lighting for after hours safety/security.	Poor site lighting at parking and playground/playfield for after hours.	
1	SAFETY	New Restroom for Playfield	New adult restrooms for park/playfield	Playfield		381,300.00	\$ 768,000		New restrooms to be controlled by City after hours.	Eliminates need for City and District to share public use of school restrooms after school hours.	
1	ENERGY EFFICIENCY	Mechanical Upgrade	Replace Existing HVAC Systems	Bldgs. 2, 3, 4, 5		21,363.00	\$ 1,753,000		Controls/Bldg Mgmt Systems replaced in 2018. New rooftop HVAC units on bldgs.	HVAC systems are at end of service life	
1	ENERGY EFFICIENCY	Shade Structure	New Shade Structure	Playground		4,500.00	\$ 1,442,400		Hard shell/all-weather	No shade structure completed from Measure G.	
1	ENERGY EFFICIENCY	Window Replacement	Replace existing glass windows with thermal insulating glass.	Bldgs. 1, 2, 3, 4, 5, 6		29,389.00	\$ 3,384,900		Assume replace entire window assembly/ framing. Energy-related savings project.	Existing windows are single-pane, uninsulated glass.	
1	ENERGY EFFICIENCY	Alternative Energy: Solar	Install Solar Arrays (Roof Mounted)	Roof of New 2-Story Admin/Classroom Bldg and Shade Structure		6,600.00	\$ 1,269,300		Roof mounted over future shade structure and buildings	Engie plan shows two free-standing arrays over playground (1-45 kW, 2-64 kW). 6,008 sf.	
1	GROWTH (SHORT-TERM)	Classroom	Add 1 Permanent Portable Classroom	Site			\$ 641,073		Add 1 permanent portable (district-owned) to add capacity. Remove temp portables (leased).	Huff's existing enrollment exceeds capacity (112%). Reclaim other district-owned portable.	



**Table 6-2: Recommendations-Priority 1 Projects (Continued)**

PRIORITY		PROJECT		QUANTITY		PROJECT COST		PROJECT NOTES		
No.	Type	Type	Description	Location	Length (lf)	Area (sf)	SY2024	Totals	Proposed Action	Background
<b>TOTAL PRIORITY 1 PROJECTS (SAFETY, EFFICIENCY, GROWTH):</b>								<b>136,938,273</b>		
<b>LANDELS ELEMENTARY SCHOOL</b>				<b>PROJECTS TOTAL:</b>			<b>\$</b>	<b>40,921,400</b>		
1	SAFETY	Perimeter Controls (School Hours)	Fences, Gates, Access Controls/CCTV (Ornamental)	Frontage @ W. Dana St. Parking/Pickup/Dropoff	220.00		\$	233,400	Secure Campus during School Hours: Creek Trail frontage along Playfield	No existing fence or perimeter controls along creek boundary
1	SAFETY	Perimeter Controls (School Hours)	Fences, Gates, Access Controls/CCTV (Chain Link)	Frontage along Stevens Creek Trail	870.00		\$	271,200	Secure Campus during School Hours: Creek Trail frontage along Playfield	No existing fence or perimeter controls along creek boundary
1	SAFETY	Lighting	Install Site Lighting in Parking and Playground Areas	Front Pickup/Dropoff/Parking, Side Parking, Playground		88,500.00	\$	605,800	Improve site lighting for after hours safety/security.	Poor site lighting at parking and playground/playfield for after hours.
1	SAFETY	New Restroom for Playfield	New mens and womens adult restrooms to support park/playfield	Playfield		-	\$	768,000	Eliminates need for City and District to share use of school restrooms by the public during non-school hours.	Eliminates need for City and District to share use of school restrooms by the public during non-school hours.
1	SAFETY	Drinking Fountains	Replace older drinking fountains with drinking stations				\$	51,300	2 replaced in 2018; New drinking stations: 1 bottle fill station + 2 fountains (1-low, 1-high)	Only partial replacement since Measure G
1	ENERGY EFFICIENCY	Mechanical Upgrade	Replace Existing HVAC Systems	Bldgs. 2, 3, 4, 5		21,363.00	\$	1,753,000	Controls/Bldg Mgmt Systems replaced in 2017. New rooftop HVAC units on bldgs.	HVAC systems at end of service life
1	ENERGY EFFICIENCY	Shade Structure	New Shade Structure	Playground		4,500.00	\$	1,442,400	Hard shell/all-weather, student outdoor dining	No shade structure completed from Measure G.
1	ENERGY EFFICIENCY	Window Replacement	Replace existing glass windows with thermal insulating glass.	Bldgs. 1, 2, 3, 4, 5, 6		28,944.00	\$	3,333,600	Assume replace entire window assembly/framing. Energy-related savings project.	Existing windows assumed to be single-pane, uninsulated glass.
1	ENERGY EFFICIENCY	Alternative Energy: Solar	Install Solar Arrays (Roof Mounted)	Roof of New 2-Story Admin/Classroom Bldg and Shade Structure		7,400.00	\$	1,396,300	Roof mounted over future shade structure and buildings	Engie plan shows two free-standing arrays over playground (1-57 kW, 2-64 kW). 6691 sf.
			Demo Bldgs. 1 & 2	Bldgs. 1, 2		2.00	\$	175,400	Existing frontage buildings	Existing location/configuration creates awkward and inefficient parking and pickup/dropoff areas
			Site Engineering	Bldgs 1, 2, Campus Frontage		90,001.15	\$	1,299,300	Grading, clearing, utilities	
1	GROWTH (SHORT-TERM/SAFETY/SITE EFFICIENCY)	PROJECT A New 2-Story Admin/Classroom Bldg and Frontage	Site Design/Frontage Improvements, New Parking/Pickup/Dropoff	W. Dana Ave. Frontage Area		63,000.00	\$	2,229,400	Improve pickup/dropoff/parking capacity at front of school. Improve traffic flow from public roads.	Improve pickup/dropoff/parking capacity at front of school. Improve traffic flow from public roads.
			Rebuild playground	Playground/Playfield		27,000.00	\$	706,500	New playground surface and equipment/ furnishings	Construct new building on existing playground, Continue use of Bldgs. 1 & 2 during construction
			Replace Bldgs. 1 & 2. Add 4 additional classrooms.	Frontage area between Martens Ave. and Playfield		1.92	\$	26,655,800	Relocate frontage building to create additional space for frontage improvements	Relocate frontage building to create additional space for frontage improvements
<b>MISTRAL ELEMENTARY SCHOOL</b>				<b>PRIORITY 1 PROJECTS (MISTRAL):</b>			<b>\$</b>	<b>9,602,200</b>		
1	SAFETY	Perimeter Controls-1 (School Hours)	Fences, Gates, Access Controls/CCTV (Ornamental)	Escuela Frontage: Bldgs. M, P, N/P, M/N, H/N, F/H. Castro Park @ Latham St.	630.00		\$	718,000	Secure Campus during School Hrs: Escuela Ave. & Latham St. frontage	Campus controlled along Escuela Ave but open to Castro Park/Latham St.
1	SAFETY	Perimeter Controls-2 (After Hours)	Fences, Gates, Access Controls/CCTV (Ornamental)	Bldgs. A/G and G/P @ Playground edge	600.00		\$	623,100	Secure School Property After Hrs: Edge of Bldgs G/J/K/L/P facing playground	Campus is unsecured after hours/open to Castro Park/Latham St.
1	SAFETY	New Restroom for Playfield	New adult restrooms for park/playfield	Castro Park		1,195,700	\$	768,000	New restrooms for public/City at Castro Park	Eliminates need for City and District to share public use of school restrooms after school hours.
1	ENERGY EFFICIENCY	Mechanical Upgrade	Replace Existing HVAC Systems	Bldgs H, J, K, L, N, P		(1.00)	\$	2,047,800	Controls/Bldg Mgmt Systems replaced in 2017. New rooftop HVAC units on bldgs.	HVAC systems at end of service life
1	ENERGY EFFICIENCY	Shade Structure	New Shade Structure	Playground		4,500.00	\$	1,442,400	Use hard shell (all-weather), same as Castro	No shade structure completed from Measure G.
1	ENERGY EFFICIENCY	Window Replacement	Replace existing glass windows with thermal insulating glass.	Bldgs. H, J, K, L, N, P		24,956.00	\$	2,872,000	Assume replace entire window assembly/ framing. Energy-related savings project.	Existing windows assumed to be single-pane, uninsulated glass.
1	ENERGY EFFICIENCY	Alternative Energy: Solar	Install Solar Arrays (Free-Standing)	Parking Lot		5,370.00	\$	1,130,900	Freestanding solar array over parking and roof mounted over future shade structure	Engie plan shows two free-standing arrays on campus; one over Mistral parking and one as shade structure over playground. Total-5,370 sf.



**Table 6-2: Recommendations-Priority 1 Projects (Continued)**

PRIORITY		PROJECT		QUANTITY		PROJECT COST		PROJECT NOTES			
No.	Type	Type	Description	Location	Length (lf)	Area (sf)	SY2024	Totals	Proposed Action	Background	
<b>TOTAL PRIORITY 1 PROJECTS (SAFETY, EFFICIENCY, GROWTH):</b>							<b>136,938,273</b>				
<b>MONTA LOMA ELEMENTARY SCHOOL</b>		<b>PRIORITY 1 PROJECTS (MONTA LOMA):</b>					<b>\$ 12,723,300</b>				
1	SAFETY	Perimeter Controls-1 (School Hours)	Fences, Gates, Access Controls/CCTV (Chain Link)	Rear Playfield/Playground Perimeter & Entry Gates	1,560.00		\$ 510,300		Secure Campus during School Hours: Playfields/Playgrounds at rear of campus	Campus controlled along Thompson Ave but open to Monta Loma Park, Laura Lane & Anna/Elka Ave.	
1	SAFETY	Perimeter Controls-2 (Non-School Hours)	Fences, Gates, Access Controls/CCTV (Ornamental)	Bldg. P @ Playground/Playfield	285.00		\$ 253,900		Secure Campus during School Hours: Playfields/Playgrounds at rear of campus	Campus is unsecured after hours/open to Monta Loma Park	
1	ENERGY EFFICIENCY	Mechanical Upgrade	Replace Existing HVAC Systems	11 Bldgs. (Nos. A, B, C, D, F, G, H, L, M, N, P)		26,883.00	\$ 2,205,900		Controls/Bldg Mgmt Systems replaced in 2017/2018. HVAC in Bldgs. E & K upgraded.	HVAC systems at end of service life	
1	ENERGY EFFICIENCY	Shade Structure	New Shade Structure	Courtyard Area between Bldgs. G, H, K, P (existing shade structures)		4,500.00	\$ 1,442,400		Hard shell/all-weather, transition space between MUR, courtyard, K classrooms and playground	No shade structure completed from Measure G.	
1	SAFETY, UTILITY/ INFRASTRUCTURE	Plumbing Network Repairs	Repair campus sanitary sewer lines & bldg. drain lines	Campus (From bldgs to connection with public systems)		38,000.00	\$ 2,756,600		Subject to outcome of utility survey; Assume existing sanitary sewer and bldg./stormwater drain lines (collection, transmission) to be replaced.	Existing sanitary and drain line deficiencies, recurring blockages	
1	ENERGY EFFICIENCY	Window Replacement	Replace existing glass windows with thermal insulating glass.	Bldgs. A,B,C,D,E,F,G,H,K,L,M,N,P		33,683.00	\$ 3,846,400		Assume replace entire window assembly/ framing. Energy-related savings project.	Existing windows assumed to be single-pane, uninsulated glass.	
1	ENERGY EFFICIENCY	Alternative Energy: Solar	Install Solar Arrays (Roof-Mounted/Free-Standing)	Over Parking, Shade Structure, Buildings		11,000.00	\$ 1,707,800		Freestanding solar array over parking and roof mounted over future shade structure	Engie plan: two roof-mounted arrays (R1, R2), one array-playground (C1). 10,980 sf (148 kW)	
<b>STEVENSON ELEMENTARY SCHOOL</b>		<b>PRIORITY 1 PROJECTS (STEVENSON):</b>					<b>\$ 4,970,800</b>				
1	SAFETY	Perimeter Controls (School Hours)	Fences, Gates, Access Controls/CCTV (Ornamental)	Shared boundary between school and park	200.00		\$ 285,900		Secure Campus during School Hours: Edge of playground/play area and park	Campus controlled along San Pierre Way but open to Stevenson Park	
1	SAFETY	Storage Expansion	Add storage for classrooms, general and parent foundation	Bldgs. B, C, D, G		1,800.00	\$ 1,269,300		New storage for PE, classrooms, general, parent groups. Project-based learning needs more storage.	Storage is short on campus. Extensive workarounds (e.g., existing classrooms used for storage).	
1	ENERGY EFFICIENCY	Shade Structure	New Shade Structure with roof-mounted solar array	Playground/Courtyard		4,500.00	\$ 1,442,400		Replace temp shade structures	No shade structure constructed with recent project.	
1	ENERGY EFFICIENCY	Alternative Energy: Solar	Install Solar Arrays (Roof-Mounted/Free-Standing)	Playground/Shade Structure, Parking, Bldgs. B/C		13,000.00	\$ 1,973,200		Freestanding solar array over parking and roof mounted over future shade structure	Engie plan shows two roof-mounted arrays (R1, R2) and one free-standing array over playground/shade structure (C1). 13,009 sf (170 kW)	
<b>THEUERKAUF ELEMENTARY SCHOOL</b>		<b>PRIORITY 1 PROJECTS (THEUERKAUF):</b>					<b>\$ 19,101,600</b>				
1	SAFETY	Pickup/Dropoff	Reconfigure pickup/dropoff, staff & visitor parking	Pickup/Dropoff/Parking area at Main Campus Entry (Bldgs. A/H, P-6-P9)		49,700	\$ 2,665,400		Reconfigure to expand capacity, improve flows and pedestrian safety	Conflict/congestion from concurrent Theuerkauf ES and Google Preschool dropoff	
1	SAFETY	Perimeter Controls (School Hours)	Fences, Gates, Access Controls/CCTV (Ornamental)	Playground/Playfield	1,100.00		\$ 784,700		Secure Campus during School Hours: Create Controlled Perimeter Area around Playground along edge with park	Campus is open to Stevenson Park	
1	SAFETY	Playground Hardcourt Resurfacing	New overlay asphalt surface and striping	Playground		38,000	\$ 550,600		Existing AC playground surface in good condition. Provide overlay and striping (still needed).	Resurfacing not completed during Measure G	
1	SAFETY, UTILITY/ INFRASTRUCTURE	Plumbing Repairs	Repair campus sanitary sewer lines & bldg. drain lines	Campus (From bldgs to connection with public systems)		4,500	\$ 3,077,100		Subject to outcome of utility survey Assume existing sanitary sewer and bldg./stormwater drain lines (collection, transmission) to be replaced.	Existing deficiency in sanitary and drain lines, recurring blockages.	
1	ENERGY EFFICIENCY	Mechanical Upgrade	Replace Existing HVAC Systems	6 Bldgs. (Nos. C, D, E, F, G, H)		30,608	\$ 2,511,600		Controls/Bldg Mgmt Systems replaced in 2017/2018. HVAC in Bldgs. E & K upgraded.		
1	ENERGY EFFICIENCY	Shade Structure	New Shade Structure with roof-mounted solar array	Playground		4,500	\$ 1,442,400		Hard shell/all-weather		
1	ENERGY EFFICIENCY	Window Replacement	Replace existing glass windows with thermal insulating glass.	Bldgs. A, C, D, E, F, G, H		3,150	\$ 3,884,900		Assume replace entire window assembly/framing. Energy-related savings project.		
1	ENERGY EFFICIENCY	Electrical Upgrade	Replace switchgear if extra capacity needed	Bldg. C			\$ 1,600,100			Existing electrical is adequate, but at capacity. Any expansion will require capacity upgrade.	
1	ENERGY EFFICIENCY	Alternative Energy: Solar	Install Solar Arrays (Roof-Mounted)	Bldgs A, D, E, G, H/ Future Shade Structure		20,400	\$ 2,584,800		Freestanding solar array over parking and roof mounted over future shade structure and existing buildings (5).	Engie plan shows five roof-mounted arrays (R1, R2, R3, R4, R5), one free-standing array over shade structure (C1). 20,409 sf.(224 kW)	



**Table 6-2: Recommendations-Priority 1 Projects (Continued)**

PRIORITY		PROJECT			QUANTITY		PROJECT COST		PROJECT NOTES		
No.	Type	Type	Description	Location	Length (lf)	Area (sf)	SY2024	Totals	Proposed Action	Background	
<b>TOTAL PRIORITY 1 PROJECTS (SAFETY, EFFICIENCY, GROWTH):</b>							<b>136,938,273</b>				
<b>VARGAS ELEMENTARY SCHOOL</b>		<b>PRIORITY 1 PROJECTS (VARGAS):</b>							<b>\$ 3,316,900</b>		
1	SAFETY	Storage	Add Storage for General School Supplies/ Eqpt., Classrooms, and PE/Recreation	Bldgs. B (PE/Rec) Bldg. C (Classrooms) Bldg. F/New (General/PE/Rec)		1,300.00	\$ 916,700		Add storage closets for classrooms, general school use, and PE/recreation. MUR to regain use of its in-house storage (now used for other purposes).		
1	ENERGY EFFICIENCY	Shade Structure	New Shade Structure with roof-mounted solar array	Playground		4,500.00	\$ 1,442,400		Same as Mistral project, shared with Mistral.		
1	ENERGY EFFICIENCY	Solar Array	Install Solar Arrays (Roof-Mounted)	Playground/Shade Structure		4,500.00	\$ 957,800		Engie plan shows one free-standing array over playground (C1). 4507 sf (83 kW)		
<b>CRITTENDEN MIDDLE SCHOOL</b>		<b>PRIORITY 1 PROJECTS (CRITTENDEN):</b>							<b>\$ 7,127,800</b>		
1	SAFETY	Security System Upgrade-PA	Upgrade PA system to enable remote access by Principal/Asst Principals	Campus			\$ 38,500		Remote access for immediate access in case of emergency.	Existing PA system only operated from Admin. Office (Bldg. 100).	
1	SAFETY	Perimeter Controls (School Hours)	Additional Fences, Gates, Access Controls/CCTV (Ornamental)	Middlefield Rd Pickup/Dropoff & Rock St/Creek Trail & Rock St/Bldg. 700	525.00		\$ 635,000		Close gaps in existing perimeter, provide access controls at all gates (secured during school hours).	Gaps at Rock Street (Bldgs. 100, 700), Middlefield Rd (Bldgs. 1000, 1100), Playfields, Stevens Creek Trail/Service Lane	
1	GROWTH, UTILITY/ INFRASTRUCTURE	Electrical Upgrade	New breakers, servicing gear to expand site capacity	Campus			\$ 615,400		Projected increase in enrollment from short- and long-term growth requires electrical system capacity to be expanded/upgraded.	Site is at capacity (breakers, servicing gear), no capacity for increased electrical demand.	
1	ENERGY EFFICIENCY	Shade Structure	New Shade Structure with roof mounted solar array	Courtyard		4,500	\$ 1,442,400		Hard shell/all-weather. Add shade structure capacity in central location/gathering area.	No shade structure completed from Measure G.	
1	ENERGY EFFICIENCY	Alternative Energy: Solar	Install Solar Arrays (Roof-Mounted/Free-Standing)	Parking, Shade Structure, New Buildings		44,700	\$ 4,396,500		Freestanding solar array over parking and roof mounted over future buildings and shade structure.	Engie plan shows 7 roof-mounted arrays (R1, R2, R3, R4, R5, R6, R7), 2 free-standing arrays over parking (C2) and courtyard (C1). 31,934 (169 kW).	
<b>GRAHAM MIDDLE SCHOOL</b>		<b>PRIORITY 1 PROJECTS (GRAHAM):</b>							<b>\$ 16,606,700</b>		
1	SAFETY	Perimeter Controls-1 (School Hours)	New Fence, Gates, Access Controls/CCTV (Ornamental)	Perimeter @ Bldgs. MOT/12-to-7, 7-to-9/MVSP	960		\$ 1,043,200		Secure Campus during School Hours @ parking/driveways perimeter from MOT/Bldg. 12 to Bldg. 7/Aud to Bldg. 9/MVSP	No existing fence or perimeter controls along building perimeter	
1	SAFETY	Perimeter Controls-2 (After School Hours)	New Fence, Gates, Access Controls/CCTV (Ornamental)	Playground Edge @ Bldgs. 12-to-14	415		\$ 527,000		Secure Campus after school hours @ playground edge	No existing fence or perimeter controls along building perimeter	
1	ENERGY EFFICIENCY	Mechanical Upgrade	Replace Existing HVAC Systems	4 Bldgs. (Nos. 3, 5, 6, 11)		-	\$ 3,269,000		Controls/Bldg Mgmt Systems replaced in 2014. HVAC in Bldgs. 1 (Library), 7 (Aud.), 13, 14 Innov Ctr), 17 (MUR) replaced.	HVAC systems at end of service life	
1	ENERGY EFFICIENCY	Shade Structure	New Shade Structure	Playground/Courtyard		4,500	\$ 1,442,400		Hard shell/all-weather	No shade structure completed from Measure G.	
1	ENERGY EFFICIENCY	Window Replacement	Replace existing glass windows with thermal insulating glass.	Bldgs. 1-6, 8, 9, 11, 12, 13		-	\$ 6,321,000		Windows in Bldgs. 7 (Aud.), 14 (Innov Ctr), 17 (MUR) replaced.	Existing windows assumed to be single-pane, uninsulated glass.	
1	ENERGY EFFICIENCY	Alternative Energy: Solar	Install Solar Arrays (Roof-Mounted/Free-Standing)	Parking, Playground Shade Structure		24,700	\$ 4,004,100		Freestanding solar array over playground and parking; roof mounted over future buildings and shade structure	Engie plan shows five free-standing arrays (1/2/3/4/5) including 2-Playground/Track, 2-Parking (Lane Ave), & 1-MOT Yard.. 18,980 sf (350 kW).	

