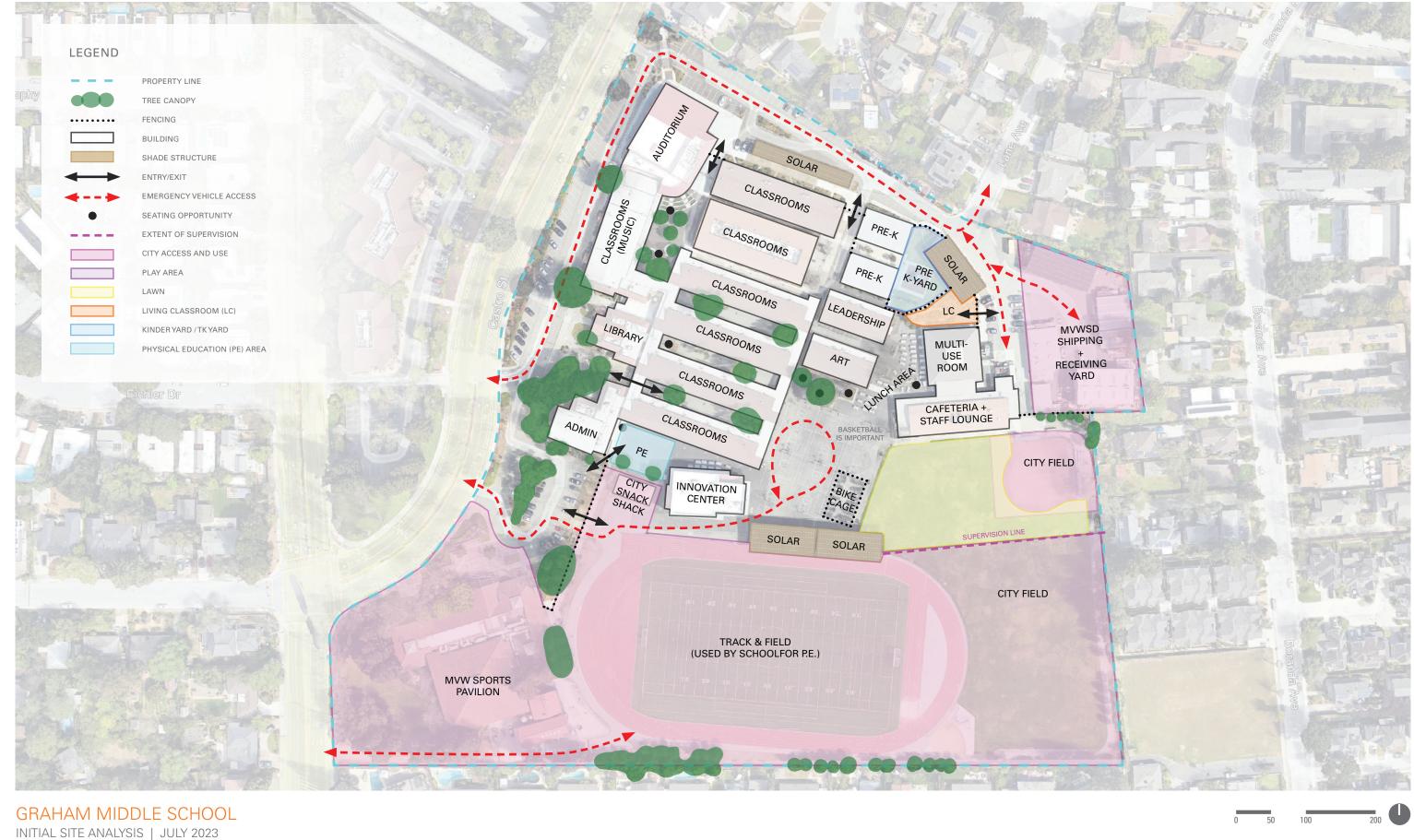
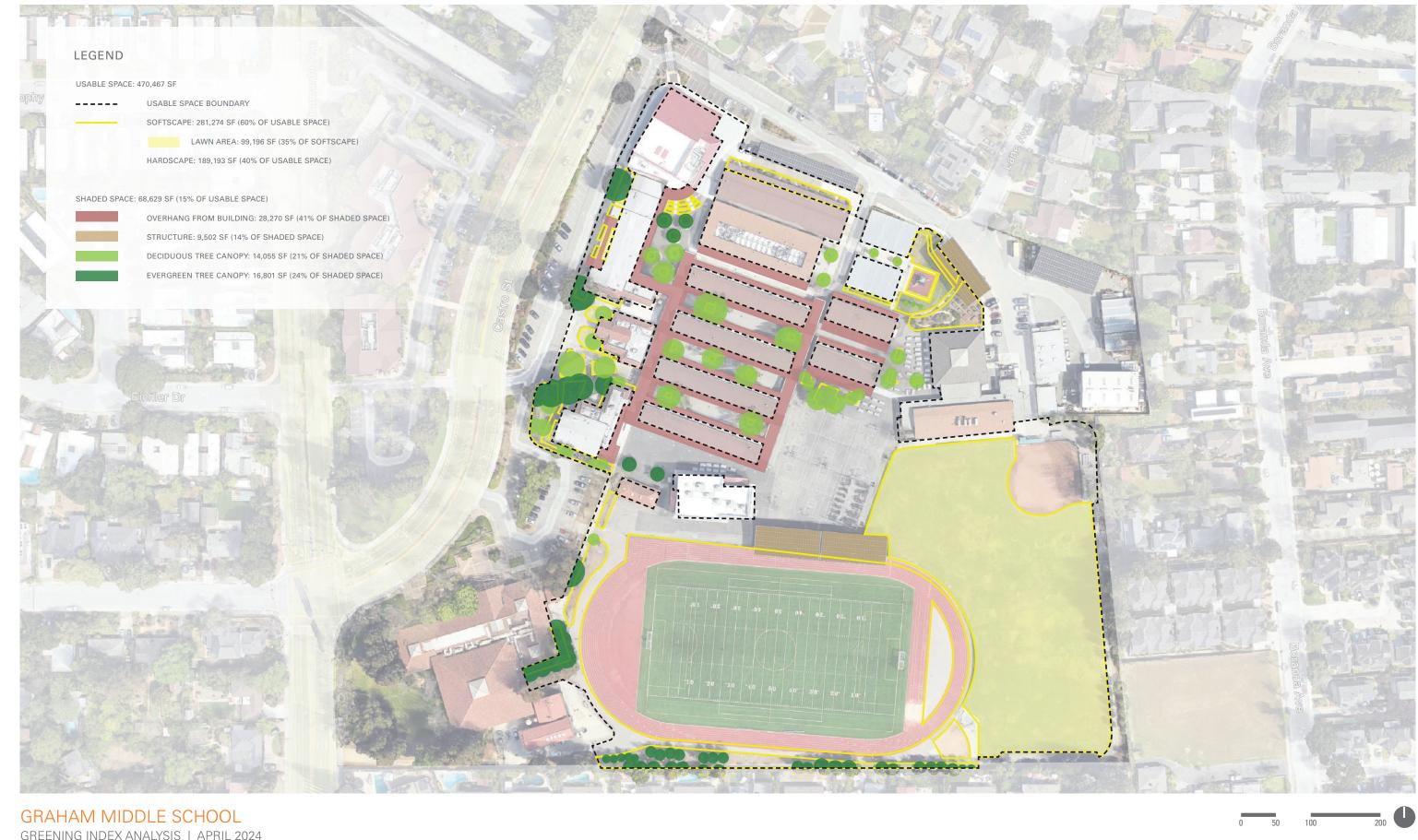
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APPENDIX

- 02 GREENING SCORE BY SCHOOL
- **03 ADDITIONAL RESOURCES**

01 GREENING INDEX & SITE PHOTOS BY SCHOOL





GREENING INDEX ANALYSIS | APRIL 2024













GRAHAM MIDDLE SCHOOL SITE PHOTOS | MARCH 2023













GRAHAM MIDDLE SCHOOL SITE PHOTOS | MARCH 2023

GRAHAM METRIC CHECKLIST: PHYSICAL COMFORT

1	Seating areas are sheltered from sun, rain, and wind	\checkmark
2	Multiple seating areas for different group sizes and activities, with at least one space for large school functions	\checkmark
3	Learning and gathering areas are accessible and comfortable to students of all relevant ages and abilities	
4	Visual screening between campus and neighboring areas; planting buffers nearby noise	
5	Tree canopy will eventually cover 30% of school property	
6	Forest or grove setting	
7	Natural materials (mulch, decomposed granite, stone, etc.) are accessible for physical interaction	
8	Shaded, comfortable lunch area	
9	Existing shaded spaces are programmed to encourage use	\checkmark
10	Heat island effect mitigated by painting asphalt with lighter, more reflective colors	
	TOTAL SCORE: PHYSICAL COMFORT	3

SCORING GUIDE:

0-3 \checkmark 's = NEEDS WORK | 4-7 \checkmark 's = ADEQUATE | 8-10 \checkmark 's = EXCELLENT



ADDITIONAL NOTES
Shade over tables outside of MUR for lunch area.
Fences at perimeter needs plant screening.
Kids love to sit on bleachers under the solar panels.
Would love to include color on the blacktop.

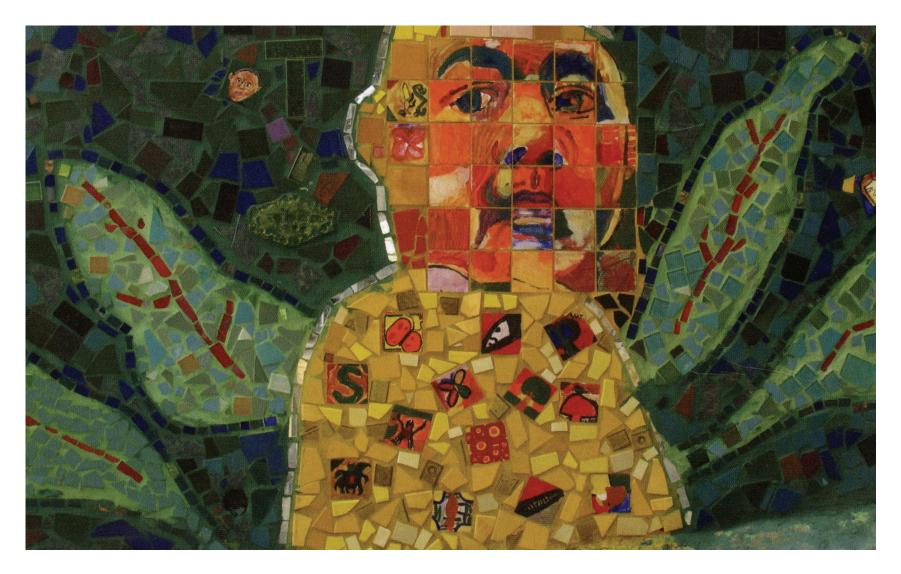


GRAHAM METRIC CHECKLIST: MENTAL WELL-BEING

1	Quiet, semi-private spaces for contemplation	
2	Outdoor spaces for conflict resolution, and emotional & physical regulation are adjacent to classrooms	\checkmark
3	Use zones on campus are laid out and defined to minimize conflict	\checkmark
4	Opportunities for student horticulture	\checkmark
5	Planting and materials engage all five senses	
6	Therapeutic interventions: sensory wall, walkway, auditory features	
7	Therapeutic interventions are accessible to the whole school population	
8	Student creations are used or on display	\checkmark
9	Space for art production and/or performance	\checkmark
10	ELEMENTARY: Space for messy play in a managed/controlled space (eg. mud table) MIDDLE: Spaces for socializing in various group sizes	
	TOTAL SCORE: MENTAL WELL-BEING	5

SCORING GUIDE:

0-3 \checkmark 's = NEEDS WORK | 4-7 \checkmark 's = ADEQUATE | 8-10 \checkmark 's = EXCELLENT



ADDITIONAL NOTES

 Kids love to read.

 Signs for zones.

 4-square!

 Music quad for performances and events.

 Like Theuerkauf's interior space.

 Graduating class makes a canvas for display.

Display cases in the schoolyard

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GRAHAM METRIC CHECKLIST: EXPLORATION & DISCOVERY

	TOTAL SCORE: EXPLORATION & DISCOVERY	0
10	ELEMENTARY: Nature play elements allow for vestibular movement MIDDLE: Natural areas with opportunities for physical challenges (e.g. a "Confidence Course")	
9	ELEMENTARY: Movable/flexible play elements MIDDLE: Customizable outdoor space with movable furnishings	
8	ELEMENTARY: Nature play area compliments the traditional play structures and opportunities MIDDLE: Discovery Path connects distinct spaces around the campus	
7	ELEMENTARY: Nature play opportunities (informal play with natural materials) MIDDLE: Outdoor Science Laboratory	
6	Diverse planting palette without Cal-IPC-identified invasives species*	
5	Variety of tree types (deciduous/evergreen, small/large)	
4	Areas for native wildlife habitat	
3	At least one natural structure provides an outdoor "destination"	
2	Environment is explicitly designed to change with climate & weather conditions over time, and for student engagement	
1	Areas with varied topography	

SCORING GUIDE:

0-3 \checkmark 's = NEEDS WORK | 4-7 \checkmark 's = ADEQUATE | 8-10 \checkmark 's = EXCELLENT



ADDITIONAL NOTES

Need more evergreen variety.

*Cal-IPC (California Invasive Plant Council) works to stop the spread of invasive plants across California They lists invasive plants on their website: https://www.cal-ipc.org/plants/inventory/

GRAHAM METRIC CHECKLIST: OUTDOOR LEARNING

1	Facilitate and support student understanding of their environment through data collection, informed observations and guided learning	
2	Outdoor learning garden provides opportunities for students to participate in every stage of gardening (seeding, planting, harvesting, composting)	\checkmark
3	Outdoor learning garden has seating, water, secure storage, and an appropriate number of raised beds	\checkmark
4	Outdoor learning garden is shaded for comfort	\checkmark
5	There is an outdoor space suitable for classroom instruction	\checkmark
6	District's maintenance staff is familiar with Bay-Friendly and other sustain- able maintenance practices	
7	School organizes community maintenance days	
8	Native plant garden or native planting throughout outdoor areas increases local ecological literacy	
9	Educational signage and/or artwork makes cultural references to local community	
10	Green infrastructure* is visible through signage and/or design	
	TOTAL SCORE: OUTDOOR LEARNING	4

SCORING GUIDE:

0-3 \checkmark 's = NEEDS WORK | 4-7 \checkmark 's = ADEQUATE | 8-10 \checkmark 's = EXCELLENT



ADDITIONAL NOTES

Teachers need benches and tables in music quad.

PTA is not as active as other sites.

Would like educational signage.

"Pilot" designing outdoor spaces @ classroom.

*Green infrastructure filters and absorbs stormwater through a combination of natural and built materials. Examples of green infrastructure include: rain gardens, bioswales, infiltration basins, green roofs, permeable paving, subsurface detention systems.

GRAHAM METRIC CHECKLIST: OPERATIONS & SUSTAINABILITY

1	Planting suited to the regional climate and campus microclimates	
2	Plants are irrigated with efficient systems	
3	Stormwater is actively captured and/or infiltrated on site	
4	Lawn limited to necessary areas (playfields, etc.)	\checkmark
5	Impermeable surface limited to necessary areas (ball play, circulation, etc.)	\checkmark
6	Library has adjacent seating/instructional outdoor space	\checkmark
7	Existence of a schoolyard committee (dedicated or part of a related group)	
8	School community outside of maintenance staff (students included) involved in schoolyard stewardship	
9	School has acquired outside resources (community partnerships and/or funding) for outdoor greening & learning	
10	School has an action plan/design vision for future school site improvements	
	TOTAL SCORE: OPERATIONS & SUSTAINABILITY	3

ADDITIONAL NOTES

SCORING GUIDE:

0-3 \checkmark 's = NEEDS WORK | 4-7 \checkmark 's = ADEQUATE | 8-10 \checkmark 's = EXCELLENT





GRAHAM METRIC CHECKLIST: STUDENT SAFETY & EXPERIENCE

1	Natural features define and reinforce the schoolyard boundary with public shared-use areas	
2	Natural features define and reinforce distinct outdoor spaces	
3	School entry reflects greening and sustainability objectives	\checkmark
4	Waiting areas for pickup and dropoff have suitable amenities (shelter, seating, adequate visibility)	\checkmark
5	Site exiting and accessibility requirement are maintained	\checkmark
6	Movement between outdoor spaces is fluid	\checkmark
7	Recreation is encouraged in supervised areas of campus are easily accessible from school buildings	\checkmark
8	Gathering spaces for small groups in a natural setting	
9	Outdoor learning garden is secure but visible through gates, fencing and/or planted screens	\checkmark
10	Loose materials are not sharp or heavy and tripping hazards are mitigated	\checkmark
	TOTAL SCORE: STUDENT SAFETY & EXPERIENCE	7

SCORING GUIDE:

0-3 \checkmark 's = NEEDS WORK | 4-7 \checkmark 's = ADEQUATE | 8-10 \checkmark 's = EXCELLENT



ADDITIONAL NOTES

Fencing & gates were re-done about a year.

AC needs a facelift.

GRAHAM SUMMARY: SCHOOL GREENING SCORES

SCHOOLS	SCORE	- <u>`</u> ,		Q			
GRAHAM MS	22/60 ADEQUATE	3/10	5/10	0/10	4/10	3/10	7/10

 RANKING LEGEND:

 ■
 NEEDS WORK:

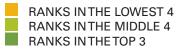
 0-3 √'s

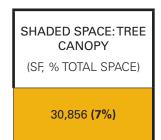
 ADEQUATE:
 4-7 √'s

 EXCELLENT:
 8-10√'s

GREEN SPACE (SF PER STUDENT)	SHADED SPACE (SF PER STUDENT)	SHADED SPACE: TREE CANOPY (SF PER STUDENT)	OPEN SPACE: SCHOOLS (SF PER STUDENT)	OPEN SPACE: CITY PARKS (SF PER STUDENT)
320	78	78	1,880	4,283

RANKING LEGEND:





RANKING LEGEND:

NEEDS WORK: 0-14% tree canopy shade of total area
 ADEQUATE: 15-29% tree canopy shade of total area
 EXCELLENT: 30% or more tree canopy shade of total area

Transfer scores from category assessment pages

÷Ņ́÷	PHYSICAL COMFORT
	MENTAL WELL-BEING
Q	EXPLORATION & DISCOVERY
	OUTDOOR LEARNING
	OPERATIONS & SUSTAINABILITY
	STUDENT SAFETY & EXPERIENCE

GRAHAM GREENING PRIORITIES*

PHYSICAL COMFORT

- 1 More space, shade & natural materials in lunch area
- 2 Convert asphalt/concrete spaces to softscape/natural spaces, such as one 1 basketball court to natural shaded area and move bike lockers if needed
- 3 More tree placement on interior of campus, especially around high use areas
- 4 More diverse & shaded seating opportunities
- 5 Paint paving to alleviate heat, and to activate blacktop

MENTAL WELL-BEING

- 1 Spaces for socilaizing in various group sizes
- 2 Potential for 'reset' areas in corridors for students taking a short break
- 3 Contemplation Spaces
- 4 "Reflective" or "thinking" classroom adjacent to Library
- 5 Therapeutic interventions

EXPLORATION & DISCOVERY

- 2 Natural Areas for opportunities of physical challenge, like a confience course
- 3 Customizable outdoor space with moveable furnishings
- campus

OUTDOOR LEARNING

- 1 Outdoor classroom adjacent to science classroom
- 2 Provide more teaching amenities in learning garden (i.e. shade, teaching board, comfortable backed seating)
- 3 More opportunities for outdoor learning
- 4 Make learning garden more accessible to classrooms
- 5 Improve ecological literacy (signage, etc.)

OPERATIONS & SUSTAINABILITY

- 1 Choose plants that can be maintained without intense manicuring (i.e. right plant, right place)
- 2 Place for a bulletin board for schedule to use the outdoor classroom
- 3 Provide proper maintenance training to district maintenance staff (i.e. Rescape



schoolyard

*The following greening opportunities were determined by the metric score assessments and meetings with the principal, staff and community conducted in September-December 2023.

• 1 - Diversify planting and tree palette, including native plants & habitat gardens

• 4 - Discovery path connecting distinct spaces around the

STUDENT SAFETY & EXPERIENCE

• 1 - Add natural features that define and enhance