March 2023 | Draft Environmental Impact Report State Clearinghouse No. 2023010230

MCKINLEY ELEMENTARY SCHOOL CAMPUS MASTER PLAN PROJECT DRAFT EIR

for Santa Monica-Malibu Unified School District

Prepared for:

Santa Monica-Malibu Unified School District

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ABBREVIATIONS AND ACRONYMS

AAQS ambient air quality standards

AB Assembly Bill

ACM asbestos-containing materials

ADT average daily traffic amsl above mean sea level

AQMP air quality management plan AST aboveground storage tank

BAU business as usual

bgs below ground surface

BMP best management practices

CAA Clean Air Act

CAFE corporate average fuel economy

CalARP California Accidental Release Prevention Program

CalEMA California Emergency Management Agency
Cal/EPA California Environmental Protection Agency

CAL FIRE California Department of Forestry and Fire Protection

CALGreen California Green Building Standards Code

Cal/OSHA California Occupational Safety and Health Administration

CalRecycle California Department of Resources, Recycling, and Recovery

Caltrans California Department of Transportation

CARB California Air Resources Board

CBC California Building Code CCAA California Clean Air Act

CCR California Code of Regulations

CDE California Department of Education

CDFW California Department of Fish and Wildlife

CEQA California Environmental Quality Act

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

cfs cubic feet per second

CGS California Geologic Survey

CMP congestion management program

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CNDDB California Natural Diversity Database

CNEL community noise equivalent level

CO carbon monoxide

CO₂e carbon dioxide equivalent
Corps US Army Corps of Engineers
CSO combined sewer overflows

CUPA Certified Unified Program Agency

CWA Clean Water Act

dB decibel

dBA A-weighted decibel

DPM diesel particulate matter

DTSC Department of Toxic Substances Control

EIR environmental impact report

EPA United States Environmental Protection Agency

EPCRA Emergency Planning and Community Right-to-Know Act

FEMA Federal Emergency Management Agency

FHWA Federal Highway Administration
FTA Federal Transit Administration

GHG greenhouse gases

GWP global warming potential
HCM Highway Capacity Manual
HQTA high quality transit area

HVAC heating, ventilating, and air conditioning system IPCC Intergovernmental Panel on Climate Change

L_{dn} day-night noise level

L_{eq} equivalent continuous noise level

LBP lead-based paint

LCFS low-carbon fuel standard

LOS level of service

LST localized significance thresholds

M_W moment magnitude

MCL maximum contaminant level
MEP maximum extent practicable

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mgd million gallons per day

MMT million metric tons

MPO metropolitan planning organization

MT metric ton

MWD Metropolitan Water District of Southern California

NAHC Native American Heritage Commission

NO_X nitrogen oxides

NPDES National Pollution Discharge Elimination System

 O_3 ozone

OES California Office of Emergency Services

PM particulate matter

POTW publicly owned treatment works

ppm parts per million
PPV peak particle velocity

RCRA Resource Conservation and Recovery Act

REC recognized environmental condition

RMP risk management plan RMS root mean square

RPS renewable portfolio standard

RWQCB Regional Water Quality Control Board

SB Senate Bill

SCAG Southern California Association of Governments SCAQMD South Coast Air Quality Management District

SIP state implementation plan

SLM sound level meter

SoCAB South Coast Air Basin

SO_X sulfur oxides

SQMP stormwater quality management plan

SRA source receptor area [or state responsibility area]

SUSMP standard urban stormwater mitigation plan

SWP State Water Project

SWPPP Storm Water Pollution Prevention Plan SWRCB State Water Resources Control Board

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TAC toxic air contaminants

TNM transportation noise model

tpd tons per day

TRI toxic release inventory

TTCP traditional tribal cultural places

USFWS United States Fish and Wildlife Service

USGS United States Geological Survey

UST underground storage tank

UWMP urban water management plan

V/C volume-to-capacity ratio

VdB velocity decibels

VHFHSZ very high fire hazard severity zone

VMT vehicle miles traveled

VOC volatile organic compound

WQMP water quality management plan

WSA water supply assessment

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1.1 INTRODUCTION

This Draft Environmental Impact Report (DEIR) analyzes the environmental effects and identifies mitigation measures for potentially significant environmental impacts associated with the implementation of the proposed McKinley Elementary School Campus Master Plan (Proposed Project). The California Environmental Quality Act (CEQA) requires that local government agencies consider the environmental consequences before implementing projects over which they have discretionary approval authority. An Environmental Impact Report (EIR) analyzes potential environmental consequences to inform the public and support informed decisions by local and state governmental agency decision makers. This document focuses on impacts determined to be potentially significant in the Initial Study/Notice of Preparation (IS/NOP) completed for the Proposed Project (see Appendix B).

This DEIR was prepared pursuant to the requirements of CEQA and the Santa Monica—Malibu Unified School District's (SMMUSD or District) CEQA procedures. The District, as the lead agency, has reviewed and revised all submitted drafts, technical studies, and reports as necessary to reflect its own independent judgment.

Data for this DEIR are derived from on-site field observations; discussions with residents; tribal consultation; and specialized environmental assessments (air quality, cultural resources, energy, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, recreation, and transportation).

1.2 ENVIRONMENTAL PROCEDURES

This DEIR has been prepared pursuant to CEQA to assess the environmental effects associated with implementation of the Proposed Project as well as anticipated future discretionary actions and approvals. CEQA established six main objectives for an EIR:

- 1. Inform governmental decision makers and the public about the potential, significant environmental effects of proposed activities.
- 2. Identify the ways that significant environmental impacts can be avoided or significantly reduced.
- 3. Avoid significant environment impacts by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible.
- 4. Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

- 5. Foster interagency coordination in the review of projects.
- 6. Enhance public participation in the planning process.

An EIR is the most comprehensive form of environmental documentation in CEQA and the CEQA Guidelines; it is intended to provide an objective, factually supported analysis and full disclosure of the environmental consequences of a Proposed Project with the potential to result in significant, adverse environmental impacts.

An EIR is one of various decision-making tools used by a lead agency to consider the merits and disadvantages of a project that is subject to its discretionary authority. Before approving a Proposed Project, the lead agency must consider the information in the EIR; determine whether the EIR was prepared in accordance with CEQA and the CEQA Guidelines; determine that it reflects the independent judgment of the lead agency; adopt findings concerning the project's significant environmental impacts and alternatives; and adopt a statement of overriding considerations if significant impacts cannot be avoided.

1.2.1 EIR Format

Chapter 1. Executive Summary. Summarizes the background and description of the Proposed Project, the format of this EIR, Project alternatives, any critical issues remaining to be resolved, and the potential environmental impacts and mitigation measures identified for the Proposed Project.

Chapter 2. Introduction. Describes the purpose of this EIR, background on the Proposed Project, overview of the IS/NOP process, the use of incorporation by reference, and Final Environmental Impact Report (FEIR) certification.

Chapter 3. Project Description. Contains a detailed description of the Proposed Project, including its objectives, its area and location, approvals anticipated to be required as part of the Proposed Project, necessary environmental clearances, and the intended uses of this EIR.

Chapter 4. Environmental Setting. Includes a description of the physical environmental conditions in the vicinity of the Proposed Project's Site, from local and regional perspectives. This provides the baseline physical conditions from which the lead agency determines the significance of the Proposed Project's environmental impacts.

Chapter 5. Environmental Analysis. Each environmental topic is analyzed in a separate section that discusses the thresholds used to determine if a significant impact would occur; the methodology to identify and evaluate the potential impacts of the Proposed Project; the existing environmental setting; the potential adverse and beneficial effects of the Proposed Project; the level of impact significance before mitigation; the mitigation measures for the Proposed Project; the level of significance after mitigation is incorporated; and the potential cumulative impacts of the Proposed Project and other existing, approved, and proposed development in the area.

Chapter 6. Other CEQA Consideration. Describes the significant unavoidable adverse impacts of the Proposed Project and any significant irreversible environmental changes associated with the Proposed Project;

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the potential impacts of the Proposed Project that were determined not to be significant by the IS/NOP and were therefore not discussed in detail in this EIR; and the ways in which the Proposed Project would cause increases in employment or population that could result in new physical or environmental impacts.

Chapter 7. Alternatives to the Proposed Project. Describes the alternatives and compares their impacts to the impacts of the Proposed Project. Three alternatives to the Proposed Project include the No Project Alternative, Alternative Location on North Campus, and Alternative Location on Santa Monica Boulevard Frontage. This chapter also discusses alternatives that were considered but rejected from further evaluation and the rational way.

Chapter 8. List of Preparers. Lists the people who prepared this EIR and organizations that were contacted during the preparation of this EIR.

Appendices. The appendices for this document (in PDF format on a CD attached to the front cover) comprise these supporting documents:

- Appendix A1 McKinley Elementary School Master Plan
- Appendix A2 McKinley Future Facility Presentation
- Appendix B Initial Study/Notice of Preparation (IS/NOP)
- Appendix C IS/NOP comments
- Appendix D Air Quality and Greenhouse Emissions Data
- Appendix E Health Risk Assessment
- Appendix F1 Historic Resources Inventory
- Appendix F2 Historic Resources Technical Report
- Appendix F3 Cultural and Paleontological Assessment
- Appendix G Energy Data Sheet
- Appendix H Geotechnical Report
- Appendix I. Phase I Environmental Site Assessment (Hazardous Materials)
- Appendix J Noise Modeling Worksheets
- Appendix K McKinley Elementary School VMT and Trip Generation Memo

1.2.2 Type and Purpose of This DEIR

This DEIR fulfills the requirements for a Project EIR.

1.3 PROJECT LOCATION

The McKinley ES campus (Proposed Project's Site) is located at 2401 Santa Monica Boulevard (Assessor's Parcel Number [APN] 4276-023-900) in the Mid-City neighborhood of the city of Santa Monica, Los Angeles County, California (see Figure 3-1, Regional Location). The campus consists of a 6.48-acre rectangular parcel that includes the existing campus and is entirely District-owned. The campus is approximately 0.60 mile north of Interstate 10 (I-10), 2.0 miles east of the Pacific Coast Highway (PCH) and Santa Monica State Beach, and is bounded by Santa Monica Boulevard to the southeast, Chelsea Avenue to the northeast, Arizona Avenue to the

northwest, and 23rd Court (alley) to the southwest (Figure 3-2, *Aerial Photograph*). McKinley ES is in an urban area surrounded by residential, commercial, and institutional uses. Direct access to the campus is provided by Santa Monica Boulevard and Chelsea Avenue, with student drop-off/pick-up along Chelsea Avenue.

1.4 PROJECT SUMMARY

The Proposed Project would renovate and modernize McKinley ES campus to update the campus facility to align with the Districtwide Educational Specifications (SMMUSD 2019). The Proposed Project would develop new and renovated facilities that would support a modern project-based learning approach at McKinley ES that would expand instructional strategies currently in place in the District and would address future learning that is flexible, adaptable, and project-centered in its delivery.

The Districtwide Educational Specifications shift the instructional design of the past that was defined by a traditional teacher-at-the-front-of-the-classroom style of learning to one that provides for rotational learning within the classroom, incorporating a variety of project-based learning experiences that allow for individualized, small group, and large group instruction to occur simultaneously. Learning spaces would be adapted with enhanced flexibility, mobility, and access to technology and resources in real time, where instructors and students may shift seamlessly between programs and instructional opportunities. The Districtwide Education Specifications also call for larger classrooms, more and larger multipurpose rooms, and several new shared spaces which do not currently exist. The redesigned campus would have more square feet of interior space.

The Proposed Project, which involves implementation of a Campus Master Plan, would be constructed in three phases and would occur over approximately 5.7 acres of the 6.48-acre District-owned campus. Redevelopment and modernization of McKinley ES includes the demolition and removal of some existing structures, renovation of structures to remain, and construction of two new buildings and outdoor facilities. Eleven existing portable classrooms (B1 through B11), playground restrooms, one modular building (Building D), and one elevator (serving Building B and C) would be selectively demolished and removed as part of the Proposed Project. Two new classroom buildings would be constructed to replace the 11 portable classrooms to be removed. The existing library and Building C would undergo renovations. Improvements to outdoor recreational areas, circulation improvements including a new pickup/drop off area along Chelsea Avenue, and relocation of the parking lot would also be implemented.

1.5 SUMMARY OF PROJECT ALTERNATIVES

CEQA Guidelines § 15126.6 requires that an EIR describe a range of reasonable alternatives to a project that could feasibly attain the basic objectives of a project and avoid or lessen the environmental effects of a project. While the District considered various options and recommendations during the scoping process, the final selection of alternatives was based on the CEQA Guidelines § 15126.6[f], which states that the selection of alternatives shall be limited to ones that would avoid or substantially lessen any of the significant effects of the project. A discussion regarding those alternatives that were considered but rejected from a detailed analysis, and the rationale for rejecting those alternatives, is provided in Chapter 7, *Alternatives*.

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Based on the criteria listed in Chapter 7, *Alternatives*, the following three alternatives have been determined to represent a reasonable range of alternatives that have the potential to feasibly attain most of the basic objectives of the Proposed Project but may avoid or substantially lessen any of the significant effects of the Proposed Project. The three alternatives are analyzed in detail in Chapter 7.

- **Alternative 1**: No Project Alternative
- Alternative 2: Alternative Location on North Campus
- Alternative 3: Alternative Location on Santa Monica Boulevard Frontage

1.6 NO-PROJECT/EXISTING GENERAL PLAN ALTERNATIVE

1.6.1 No-Project Alternative

CEQA Guidelines § 15126.6(e) requires that a "No Project" Alternative be evaluated. This analysis must discuss the existing site conditions as well as what would be reasonably expected to occur in the foreseeable future if the Proposed Project were not approved.

1.6.2 Alternative 2: Alternative Location on North Campus

Under this alternative, the proposed two-story classroom buildings that would be constructed during Phase 3 of the Proposed Project, would be located at alternate locations on the campus, including at the northeast portion of the campus near the intersection Chelsea Avenue and Arizona Avenue, along the northern boundary near Arizona Avenue, at the northwest portion of the campus near the intersection of Arizona Avenue and 23rd Court, and along the western portion of the campus near 23rd Court (see Figure 7-1, *Alternative Location on North Campus*).

1.6.3 Alternative 3: Alternative Location on Santa Monica Boulevard Frontage

Under this alternative, the proposed two-story classroom buildings, would be located within the existing Santa Monica Boulevard Quad along Santa Monica Boulevard (see Figure 7-2, *Alternative Location on Santa Monica Boulevard Frontage*).

1.7 ISSUES TO BE RESOLVED

The CEQA Guidelines § 15123(b)(3) requires that an EIR contain issues to be resolved, including the choice among alternatives and whether or how to mitigate significant impacts. With regard to the Proposed Project, the major issues to be resolved include decisions by the lead agency as to:

- 1. Whether this DEIR adequately describes the environmental impacts of the project.
- 2. Whether the proposed land use changes are compatible with the character of the existing area.
- 3. Whether the identified goals, policies, or mitigation measures should be adopted or modified.

- 4. Whether there are other mitigation measures that should be applied to the project besides the Mitigation Measures identified in the DEIR.
- 5. Whether there are any alternatives to the project that would substantially lessen any of the significant impacts of the proposed project and achieve most of the basic project objectives.

1.8 AREAS OF CONTROVERSY

On January 13, 2023, SMMUSD issued an IS/NOP for the Proposed Project. The scoping period for this IS/NOP was between January 13, 2023, and February 12, 2023, during which interested agencies and the public could submit comments about the Proposed Project. During this time, the District received 20 comment letters from agencies and members of the public. Comments received during circulation of the IS/NOP are included in Appendix C.

The following issues are likely to be of particular concern to agencies and interested members of the public during the environmental review process. Concerns applicable to the CEQA process are addressed throughout this DEIR. This list below is not necessarily exhaustive, but rather captures those concerns that are likely to generate the greatest interest based on the input received during the scoping process.

- Degradation of Visual Character addressed in Section 5.1, Aesthetics
- Impacts to Historic District on the campus addressed in Section 5.3, Cultural Resources
- Construction Noise Impacts addressed in Section 5.10, Noise
- Traffic Impacts addressed in Section 5.12, *Transportation*

1.9 SUMMARY OF ENVIRONMENTAL IMPACTS, MITIGATION MEASURES, AND LEVELS OF SIGNIFICANCE AFTER MITIGATION

Table 1-1, Summary of Environmental Impacts, Mitigation Measures, and Levels of Significance After Mitigation, summarizes the conclusions of the environmental analysis contained in this DEIR. Impacts are identified as potentially significant, less than significant, or no impact, and mitigation measures are identified for all significant impacts. The level of significance after imposition of the mitigation measures is also presented.

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Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
5.1 AESTHETICS			
Impact 5.1-1: The Proposed Project would not substantially degrade the existing visual character or quality of public views of the Proposed Project's Site and its surroundings.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
Impact 5.1-2: The Proposed Project would not create a new source of substantial light or glare that would adversely affect day or nighttime views in the area.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
5.2 AIR QUALITY			
Impact 5.2-1: The Proposed Project would not conflict with or obstruct implementation of the applicable air quality plan (the South Coast AQMD AQMP).	Less than Significant	No mitigation measures or conditions of approval are required.	Less than significant
Impact 5.2-2: Construction and operation associated with the Proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant in exceedance of South Coast AQMD's threshold criteria.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than significant
Impact 5.2-3: The Proposed Project would not expose sensitive receptors to substantial pollutant concentrations during construction or operation.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than significant
5.3 CULTURAL RESOURCES			
Impact 5.3-1: Development of the Proposed Project would not impact an identified historic resource pursuant to section 15064.5.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than significant
Impact 5.3-2: The Proposed Project would not cause a substantial adverse change in the significance of an archaeological resources pursuant to section 15064.5.	Potentially Significant	CUL-1 Prior to issuance of any permits allowing ground-disturbing activities for the Project (for each individual phase of the Project), the District shall ensure that an archaeologist who meets the Secretary of the Interior's standards for professional archaeology has been retained for the Project and will be on-call during all grading	, and the second

Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		and other significant ground-disturbing activities. The Qualified Archaeologist shall ensure that the following measures are followed for the Project:	
		 Prior to any ground disturbance, the Qualified Archaeologist, or their designee, shall provide worker environmental awareness protection training to construction personnel regarding regulatory requirements for the protection of cultural (prehistoric and historic) resources. As part of this training, construction personnel shall be briefed on proper procedures to follow should unanticipated cultural or paleontological resources be made during construction. 	
		 In the event that a prehistoric archeological site (such as any unusual amounts of stone, bone, or shell) or a historic-period archaeological site (such as concentrated deposits of bottles or bricks, amethyst glass, or other historic refuse), is uncovered during grading or other construction activities, all ground-disturbing activity within 50 feet of the discovery shall be halted. The District shall be notified of the potential find and a qualified archeologist shall be retained to investigate its significance. 	
		 If significant Native American cultural resources are discovered for which a treatment plan must be prepared the project applicant or the archaeologist on call shall contact the applicable Native American tribal contact(s). If requested by the Native American tribe(s), the project applicant or archaeologist on call shall, in good faith, consult on the discovery and its disposition (e.g., avoidance, preservation, reburial, return of artifacts to tribe). 	
		• Any previously undiscovered resources found during construction will be recorded on appropriate California Department of Parks and Recreation 523 forms and evaluated for significance under all applicable regulatory criteria. If the archaeologist determines that the find does not meet the CRHR standards of significance, construction may proceed. If the find is determined to be significant by the qualified archaeologist (i.e., because the find is determined to constitute either an historical resource or a unique archaeological resource), the archaeologist shall work with the District to follow accepted professional standards such as further testing for evaluation or data recovery, as necessary. The results of the identification, evaluation, and/or data	
		recovery program for any unanticipated discoveries shall be presented in a professional-quality report that details all methods and findings, evaluates the	

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Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation		Mitigation Measures	Level of Significance After Mitigation
			nature and significance of the resources, and analyzes and interprets the results.	
5.4 ENERGY	-	-		
Impact 5.4-1: Implementation of the Proposed Project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.	Less than Significant		No mitigation measures or conditions of approval are required.	Less than Significant
Impact 5.4-2: The Proposed Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency.	Less than Significant		No mitigation measures or conditions of approval are required.	Less than Significant
5.5 GEOLOGY AND SOILS				
Impact 5.5-1: The Proposed Project would not directly or indirectly destroy a unique paleontological resource.	Potentially Significant	GEO-1	Prior to the commencement of any on-site excavation or grading activities, the District shall retail a qualified paleontologist meeting the Society of Vertebrate Paleontology (SVP) Standards (SVP 2010) (Qualified Paleontologist). The Qualified Paleontologist shall provide technical and compliance oversight of all work as it relates to paleontological resources, shall be responsible for ensuring the employee training provisions are implemented during implementation of the Project, and shall report to the Project's Site in the event potential paleontological resources are encountered. A Paleontological Resources Management Plan (PRMP) shall be prepared by the Qualified Paleontologist that incorporates all available geologic data for the Project in order to determine the necessary level of effort for monitoring based on the planned rate of excavation and grading activities, the materials being excavated, and the depth of excavation. The PRMP establishes the ground rules for the entire paleontological resource mitigation program. The Qualified Paleontologist will implement the PRMP as the project paleontologist, program supervisor, and principal investigator. The PRMP shall incorporate the results of the paleontological resources assessments, geotechnical investigation, and the final engineering/grading plans for the project including pertinent geological and paleontological literature, geologic maps, and known fossil locality information. The PRMP shall include processes and procedures for paleontological monitoring, fossil	

Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		salvaging (if needed), reporting, and curation (if needed). The PRMP shall also require the Qualified Paleontologist to prepare a report of the findings of the monitoring efforts after construction is completed. The PRMP shall also require the Qualified Paleontologist to obtain a curatorial arrangement with a qualified repository (e.g., Los Angeles County Natural History Museum) prior to construction if significant paleontological resources are discovered and require curation.	
		A paleontological monitor, defined as an individual who has experience in the collection and salvage of fossil materials, shall work under the direction of the Qualified Paleontologist and shall be on-site during excavations into native sediments of older alluvium below a depth of five feet and native sediments of young alluvium below a depth of 20 feet. Drilling or pile driving activities, regardless of depth, have a low potential to produce fossils meeting significance criteria because any fossils brought up by the auger during drilling will not have information about formation, depth or context. The only instance in which such fossils will meet significance criteria is if the fossil is a species new to the region.	
		In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Fossil remains collected during the monitoring and salvage portion of the program shall be cleaned, repaired, sorted, and catalogued. Once documentation and collection of the find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find. Prepared fossils, along with copies of all pertinent field notes, photos, and maps, shall be deposited (as a donation) in a scientific institution with permanent paleontological collections, such as the Los Angeles County Natural History Museum.	
		A final Paleontological Monitoring and Data Recovery Report shall be completed that outlines the results of the monitoring program. This report shall include discussions of the methods used, stratigraphic section(s) exposed, fossils collected, and significance of recovered fossils.	

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Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
5.6 GREENHOUSE GAS EMISSIONS			
Impact 5.6-1: The Proposed Project would not generate greenhouse gas (GHG) emissions, either directly or indirectly, that may have a significant impact on the environment.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
Impact 5.6-2: The Proposed Project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
5.7 HAZARDS AND HAZARDOUS MATERIALS			
Impact 5.7-1: Construction and/or operations of the Proposed Project would involve the transport, use, and/or disposal of hazardous materials.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
Impact 5.7-2: The Proposed Project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.	Potentially Significant	Prior to demolition or renovation activities, the existing buildings proposed for demolition or renovation will be inspected by a qualified environmental specialist for the presence of hazardous building materials, including asbestos containing materials asbestos-containing materials (ACMs), lead-based paints (LBP), and polychlorinated biphenyls (PCBs). If hazardous building materials are detected, abatement and removal of these materials will be conducted in accordance with applicable federal, state, and local guidelines as follows:	•
		 In the event that ACM and LBP are found on the campus, notice shall be provided to South Coast Air Quality Management District (AQMD), and any demolition activities likely to disturb ACM and LBP shall be carried out by a contractor trained and qualified to conduct lead- or asbestos-related construction work in conformance with South Coast AQMD, CalOSHA, Department of Toxic Substances Control (DTSC), and other applicable requirements. If found, ACM and LBP will be disposed of at an appropriately permitted facility. 	
		 If PCBs are found on the campus, these materials shall be managed in accordance with the Metallic Discards Act of 1991 (PRC, sections 42160- 42185) and other state and federal guidelines and regulations. Demolition plans and contract specifications will incorporate any necessary abatement 	

Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation		Mitigation Measures	Level of Significance After Mitigation
			measures in compliance with the Metallic Discards Act, particularly section 42175, Materials Requiring Special Handling, for the removal of PCB-containing materials.	
			 Once hazardous building materials are removed, a follow-up inspection shall be performed of the existing buildings prior to demolition or renovation to confirm that the hazardous items have been removed to an acceptable level per DTSC requirements before commencing with demolition activities. 	
		HAZ-2	The District will retain a licensed Professional Geologist, Professional Engineering Geologist, or Professional Engineer with more than 2 years of experience conducting hazardous material and contamination assessments to conduct soil sampling. The soil sampling will be conducted prior to any disturbance of the area(s) suspected of potential contamination to evaluate shallow soil conditions with respect to lead-based paint (LBP) residues from on-site structures built prior to 1990 and chemicals commonly used at drycleaners including chlorinated solvents due to historic uses at nearby properties. If the soil sampling identifies the presence of contaminated soils, the contractor shall prepare and implement a contaminated soils removal action workplan (RAW) for removal of affected soils on-site. Affected soils shall be excavated and disposed of off-campus at a landfill permitted to accept such waste, and the campus shall be cleaned to an acceptable level per DTSC requirements.	
			After the District confirms that the affected soils have been removed, through the collection of soil samples in the excavation areas, the excavation shall be backfilled and compacted with clean soil, and the contractor will prepare a Completion Report that documents the removal and presents analytical results for the confirmation samples.	
Impact 5.7-3: The Proposed Project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substance, or waste within one-quarter mile of an existing or proposed school.	Potentially Significant		Implementation of Mitigation Measures HAZ-1 and HAZ-2 is required.	Less than Significant

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Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
Impact 5.7-4: The Proposed Project would not be located on a site which is included on a list of hazardous materials compiled pursuant to Government Code § 65962.5 and, as a result, would create a significant hazard to the public or the environment.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
Impact 5.7-5: Development of the Proposed Project would affect the implementation of an emergency responder or evacuation plan.	Less Than Significant	No mitigation measures or conditions of approval are required.	Less Than Significant
5.8 HYDROLOGY AND WATER QUALITY			
Impact 5.8-1: The Proposed Project would not violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
Impact 5.8-2: The Proposed Project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Proposed Project may impede sustainable groundwater management of the basin.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
5.9 LAND USE AND PLANNING			
Impact 5.9-1: The Proposed Project's implementation would not divide an established community.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
Impact 5.9-2: The Proposed Project's Implementation would not conflict with applicable plans adopted for the purpose of avoiding or mitigating an environmental effect.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant

Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation		Mitigation Measures	Level of Significance After Mitigation	
5.10 NOISE					
Impact 5.10-1: Construction activities would result in temporary noise increases in the vicinity of the Proposed Project in excess of existing established standards. Operational activities would not result in permanent or temporary increase in ambient noise levels in excess of existing established standards.		N-1	The Santa Monica-Malibu Unified School District construction contract bid shall require the chosen construction contractor(s) to prepare a Construction Noise Control Plan. The details of the Construction Noise Control Plan shall be included as part of the permit application drawing set and as part of the construction drawing set. The Construction Noise Control Plan shall include, but not be limited to the following:	-	
			 During the entire active construction period, equipment and trucks used for Project construction shall utilize the best available noise control techniques (e.g., improved mufflers, equipment re-design, use of intake silencers, ducts, engine enclosures, and acoustically attenuating shields or shrouds). 		
			 The District shall require the contractor to use impact tools (e.g., jack hammers and hoe rams) that are hydraulically or electrically powered wherever such alternatives are available. Where the use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used along with external noise jackets on the tools. 		
			 During the entire active construction period, stationary noise sources shall be located as far from sensitive receptors as possible, and they shall be muffled and enclosed within temporary sheds, or insulation barriers, or other measures. 		
				 During the entire active construction period, noisy operations shall be combined so that they occur in the same time period because the total noise level produced would not be significantly greater than the level produced if the operations were performed separately (and the noise would be of shorter duration). 	
			 Signs shall be posted at the job site entrance(s), within the on-site construction zones, and along queueing lanes (if any) to reinforce the prohibition of unnecessary engine idling. All other equipment shall be turned off if not in use for more than 5 minutes.)	
			 During the entire active construction period and to the extent feasible, the use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only. The construction manager shall use smart back-up alarms, which automatically adjust the alarm level based on 		

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Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		the background noise level or switch off back-up alarms and replace with human spotters in compliance with all safety requirements and laws.	
		 For on-site receptors, erect a fence with sound blankets at least 8 feet tall in the immediate proximity between the construction perimeter and active classrooms as to block the line of site during school hours. The blanketed fence shall not have any gaps between blankets or between the blankets and the ground. 	
Impact 5.10-2: Temporary construction activities would potentially create excessive groundborne vibration and groundborne noise at sensitive receptors.	Potentially Significant	N-2 Vibratory compaction that is within 25 feet of any surrounding residential structure shall use a static roller in lieu of a vibratory roller. Specifically, use of a static roller is predicted to generate vibration levels of approximately 0.05 in/sec PPV at a distance of 25 feet (New Zealand Transport Agency 2012). At a distance greater than 25 feet, a vibratory roller would no longer exceed 0.20 in/sec PPV.	Less than Significant
5.11 RECREATION			
Impact 5.11-1: The Proposed Project would not result in increased use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
Impact 5.11-2: The Proposed Project would not Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
5.12 TRANSPORTATION			
Impact 5.12-1: The Proposed Project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities.	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant

Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
Impact 5.12-2: The Proposed Project would not conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b).	Less than Significant	No mitigation measures or conditions of approval are required.	Less than Significant
Impact 5.12-3: The Proposed Project would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).	Potentially Significant	Preparation and Implementation of a Construction Management Plan Santa Monica Municipal Code (SMMC) Section 8.98 stipulates the preparation of a Construction Management Plan for any project that meets the criteria set forth in SMMC Section 8.98.030 in order to coordinate, communicate, and manage the temporary effects of construction activity on surrounding residents, businesses, and commuters in the community. In accordance with SMMC Section 8.98, prior to initiating construction, the District and/or its contractors shall prepare and implement a Construction Management Plan that meets the requirements of SMMC Section 8.98.040 (Content of a Construction Management Plan). The Construction Management Plan shall also include a Temporary Traffic Control Plan (TTCP) to address anticipated impacts to or closures of public rights-of-way. The Construction Management Plan (including the TTCP) shall be submitted to the City Public Works Department for approval prior to construction of each phase of the Project. The TTCP will demonstrate appropriate traffic handling during construction activities for all work that could impact the traveling public (e.g., the transport of equipment and materials to the campus area). The TTCP shall minimize hazards through industry-accepted traffic control practices. At a minimum, the TTCP shall require the contractor to do the following:	
		 Strictly adhere to adhere to the construction noise restrictions per Section 4.12.110 of the Santa Monica Municipal Code. Construction and demolition work times are: Monday through Friday, 8:00 a.m. until 6:00 p.m.; Saturdays 9:00 a.m. until 5:00 p.m. No construction or demolition is allowed on Sundays and holidays; 	
		 obtain transportation permits necessary for oversize and overweight load haul routes and follow regulations of the applicable jurisdiction for transportation of oversized and overweight loads; 	
		 provide adequate signage and traffic flagger personnel, if needed, to control and direct traffic for deliveries, if they could preclude free flow of traffic in both 	

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Table 1-1 Summary of Environmental Impacts, Mitigation Measures and Levels of Significance After Mitigation

Environmental Impact	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		directions or cause a temporary traffic hazard; prohibit deliveries of heavy equipment and construction materials during periods of heavy traffic flow (i.e., 30 minutes before or after school start and end times);	
		 develop a Traffic Education Program to assist in educating parents, students, and staff on drop-off/pick-up procedures specific to each phase of construction that includes informational materials regarding student drop-off and pick-up procedures via regular parent/school communication methods and posted on the school website; 	
		 utilize portable message signs and information signs at construction sites as needed; 	
		 coordinate with the responsible agency departments, including the City of Santa Monica Public Works and Planning Departments, and the City of Santa Monica Fire Department no less than 10 days prior to the start of the work for each phase including specifying whether any temporary vehicle, pedestrian, or bicycle construction detours are needed, if construction work would encroach into the public right-of-way, or if temporary use of public streets surrounding the campus is needed; and 	
		 review all existing emergency access and evacuation plans and identify procedures for construction area evacuation in the case of an emergency declared by local authorities. 	
		 Additionally, the District shall ensure that the construction contractor follows all applicable requirements and regulations established in the City of Santa Monica Procedures and Requirements for Temporary Traffic Control Plans to ensure the TTCP is prepared to City standards and approved as necessary. 	
Impact 5.10-4: The Proposed Project would not result in inadequate emergency access.	Potentially Significant	Implementation of Mitigation Measure T-1 is required.	Less than Significant

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2. Introduction

2.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT

The California Environmental Quality Act (CEQA) requires that all state and local governmental agencies consider the environmental consequences of projects over which they have discretionary authority before taking action on those projects. This draft environmental impact report (DEIR) has been prepared to satisfy CEQA and the CEQA Guidelines for the McKinley Elementary School Campus Master Plan Project (Proposed Project). An EIR is the public document designed to provide decision makers and the public with an analysis of the environmental effects of a project, and to identify potentially significant environmental impacts, and if found, develop mitigation measures and alternatives to the project, if feasible, and if not, to adopt a statement of overriding conditions should the lead agency still wish to proceed with the project. To that end, the EIR must analyze for and disclose potentially significant environmental impacts that cannot be avoided; growth-inducing impacts; effects found not to be significant; and significant cumulative impacts of all past, present, and reasonably foreseeable future projects. Compliance with CEQA applies to California government agencies at all levels: local, regional, and state agencies, boards, commissions, and special districts (such as school districts and water districts).

The lead agency means "the public agency which has the principal responsibility for carrying out or approving a project which may have a significant effect upon the environment" (Public Resources Code [PRC] section 21067). The Santa Monica—Malibu Unified School District (SMMUSD or District) is the public agency that will carry out this Proposed Project. For this reason, the SMMUSD is the CEQA lead agency for the Proposed Project.

PRC Section 21080(a) states that analysis of a project's environmental impact is required for any "discretionary projects proposed to be carried out or approved by public agencies...." In this case, the SMMUSD has determined that an EIR is required to determine whether there is substantial evidence that construction and operation of the Proposed Project would result in environmental impacts and impose feasible mitigation for any discovered potentially significant environmental impacts or cumulatively considerable impacts.

2.2 NOTICE OF PREPARATION AND INITIAL STUDY

The SMMUSD determined that an EIR would be required for the Proposed Project and issued an Initial Study/Notice of Preparation (IS/NOP) on January 13, 2023 (see Appendix B). Comments received during the IS/NOP public review period, from January 13, 2023, to February 12, 2023, are in Appendix C. The IS/NOP was distributed to State, regional, and local government agencies and other interested parties to solicit comments and inform the public of the potential environmental issues that the EIR would address. A scoping meeting was held on January 31, 2023, where an overview of the Proposed Project and CEQA process were

2. Introduction

presented. The comments received during the public review period, as well as a summary of the comments received at the scoping meeting, are provided in Appendix C of this DEIR.

The NOP process helps determine the scope of the environmental issues to be addressed in the DEIR. Based on this process and the Initial Study for the Proposed Project, certain environmental categories were identified as having the potential to result in significant impacts. Environmental issues that were considered to have potentially significant impacts are addressed in this DEIR; issues identified to result in less than significant impact or no impact are addressed in the IS/NOP (see Appendix B) and summarized in Chapter 6, Other CEQA Considerations. In response to public comments received during the IS/NOP's public review period, two additional environmental topics, Land Use and Planning as well as Recreation, were determined to have potentially significant impacts and are addressed in this DEIR.

2.3 PURPOSE OF THIS ENVIRONMENTAL IMPACT REPORT

This DEIR has been prepared to satisfy the requirements of CEQA and the CEQA Guidelines. An EIR is a public informational document that provides decision makers and the public with an analysis of the environmental effects of the Proposed Project and indicates possible ways to reduce or avoid environmental damage through the identification of mitigation measures and/or alternatives to the Proposed Project. The EIR must also disclose potentially significant environmental impacts that cannot be avoided; growth-inducing impacts; effects found not to be significant; and significant cumulative impacts associated with past, present, and reasonably foreseeable future projects.

The intent of this DEIR is to provide sufficient information on the potentially significant environmental impacts of the Proposed Project to allow the SMMUSD to make an informed decision on whether to carry out the Project, including identification of mitigation measures and project alternatives that would substantially lessen or avoid potentially significant environmental impacts caused by the Proposed Project. Specific discretionary actions of public agencies concerning the Proposed Project are described in Section 3.7, Required Permits and Approvals.

This DEIR has been prepared in accordance with requirements of the:

- California Environmental Quality Act (CEQA) of 1970, as amended (PRC §§ 21000 et seq.)
- State Guidelines for the Implementation of the CEQA of 1970 (CEQA Guidelines), as amended (California Code of Regulations §§ 15000 et seq.)

SMMUSD and other public agencies with direct authority over the Proposed Project (e.g., responsible and trustee agencies) that may use this EIR in their decision-making or permitting processes will consider the information in this EIR along with other information that may be presented during the CEQA process. In addition, this EIR is the primary reference document in the formulation and implementation of a Mitigation Monitoring and Reporting Program for the Proposed Project.

In accordance with CEQA, public agencies are required to make appropriate findings for each potential environmental impact identified in the EIR that cannot be mitigated to a less than significant level. If the lead

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agency (and responsible agencies using this CEQA document for associated permits or approvals) decides that the benefits of a project outweigh any identified significant environmental effects that cannot be mitigated to below a threshold of significance, the lead agency must adopt a Statement of Overriding Considerations that states the reasons supporting its actions despite the project's significant and unavoidable environmental impacts. The actions involved in the implementation of the Proposed Project are described in Section 3.8, Required Permits and Approvals. Other agencies, including responsible and trustee agencies, that may have discretionary approval over the Proposed Project or components of it are also described in in that section.

2.4 SCOPE OF THIS DEIR

The scope of the DEIR was determined based on the IS/NOP, comments received in response to the IS/NOP, and comments received at the scoping meeting conducted by the SMMUSD. Pursuant to §§ 15126.2 and 15126.4 of the CEQA Guidelines, the DEIR must identify any potentially significant adverse impacts and impose feasible mitigation measures that would reduce or eliminate these impacts to less than significant levels. The information in Chapter 3, *Project Description*, establishes the basis for analyzing future, project-related environmental impacts.

2.4.1 Impacts Considered Less Than Significant

During preparation of the IS/NOP, the SMMUSD determined that eight environmental impact categories would not be significantly affected by the Proposed Project. These categories are addressed in Chapter 6, *Other CEQA Considerations*, and in more detail in Appendix B of this DEIR.

- Agriculture and Forestry Resources
- Biological Resources
- Mineral Resources
- Population and Housing
- Public Services
- Utilities/Service Systems
- Tribal Cultural Resources
- Wildfire

2.4.2 Potentially Significant Adverse Impacts

Through the IS/NOP process, the SMMUSD determined that further analysis was needed of 12 environmental factors to determine whether the Proposed Project would result in potentially significant impacts. These topics are evaluated in detail in Chapter 5, *Environmental Analysis*, of this DEIR.

- Aesthetics
- Air Quality
- Cultural Resources
- Energy
- Geology And Soils

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- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use/Planning
- Noise
- Recreation
- Transportation

2.4.3 Unavoidable Significant Adverse Impacts

Unavoidable adverse impacts may be considered significant on a project-specific basis, cumulatively significant, and/or potentially significant. However; this DEIR did not identify any significant and unavoidable adverse impacts, as defined by CEQA, that would result from implementation of the Proposed Project.

2.5 INCORPORATION BY REFERENCE

Some documents are incorporated by reference into this DEIR, consistent with § 15150 of the CEQA Guidelines, and they are available for review at the SMMUSD's Office.

- City of Santa Monica Municipal Code, November 2022
- City of Santa Monica General Plan, 2002
- McKinley Elementary School Master Plan, October 2020 (Appendix A(1))
- Santa Monica-Malibu Unified School District, Districtwide Educational Specifications, March 2019

2.6 FINAL EIR CERTIFICATION

This DEIR is being circulated for a 45-day review period, from March 21, 2023, to May 5, 2023. Interested agencies and members of the public are invited to provide written comments on the DEIR. In compliance with §§ 15085(a) and 15087(a)(1) of the CEQA Guidelines, the SMMUSD, serving as the lead agency, has published a Notice of Completion (NOC) and Notice of Availability (NOA) of the DEIR that indicate that the DEIR and all associated technical appendices can be viewed at the following locations:

- Santa Monica-Malibu Unified School District, 1717 4th Street, Santa Monica, CA 90401
- McKinley Elementary School Administrative Office, 2401 Santa Monica Blvd, Santa Monica, CA 90404
- City of Santa Monica Planning Counter, 1685 Main Street, Santa Monica, CA 90401
- City of Santa Monica Public Library, 601 Santa Monica Blvd, Santa Monica, CA 90401

In addition, the DEIR is available on line at the SMMUSD website: https://www.smmusd.org/Page/5594

The NOC/NOA has been transmitted to the State Clearing House and Los Angeles County Clerk and distributed to all property owners within 500 feet of the campus and/or those who have previously requested such notice. Any public agency or members of the public wishing to comment on the DEIR must submit their

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comments in writing or send them via email with the subject heading "McKinley Elementary School Master Plan Project" to the following addresses prior to the end of the public review period:

■ Mail: Carey Upton, Chief Operations Officer

Santa Monica-Malibu Unified School District

1717 4th Street

Santa Monica, California 90401

■ Email: Cupton@smmusd.org

Upon completion of the 45-day review period, the SMMUSD will review all written comments received and prepare written responses for each. The Final EIR (FEIR) will include all received comments, the SMMUSD's responses to those comments, and any changes to the DEIR that result from comments. The FEIR will be presented to the SMMUSD's Board of Education for potential certification as the environmental document for the Proposed Project. All persons who comment on the DEIR will be notified of the availability of the FEIR and the date of the public hearing.

2.7 MITIGATION MONITORING

PRC § 21081.6 requires that agencies adopt a Mitigation Monitoring and Reporting Program (MMRP) for any project for which it has made findings pursuant to PRC § 21081. Such a program is intended to ensure the implementation of all mitigation measures adopted through the preparation of the EIR.

The MMRP for the Proposed Project will be completed after the FEIR and prior to consideration of the Proposed Project by the District's Board of Education.

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3.1 OVERVIEW

Santa Monica–Malibu Unified School District (SMMUSD or District) proposes to renovate and modernize the existing McKinley Elementary School (McKinley ES) campus. The McKinley Elementary School Campus Master Plan (Proposed Project) is designed to update the campus facility to align with the Districtwide Educational Specifications (SMMUSD 2019). The Proposed Project would develop new and renovated facilities that would support modern project-based learning at McKinley ES; expand instructional strategies currently in place in the District; and address future learning that is flexible, adaptable, and project centered in its delivery. The Proposed Project is required to undergo an environmental review pursuant to the California Environmental Quality Act (CEQA).

In April 2019, the SMMUSD Board of Education adopted Districtwide Educational Specifications that provide guidance on developing future learning environments to support new developments in technology and the expectations of the twenty-first-century work force (SMMUSD 2019). The Districtwide Educational Specifications were developed through a comprehensive, year-long process that engaged district leadership, educational leadership, teachers, staff, user groups, M&O, students, and community to arrive at an informed and well-represented set of goals and objectives for the design of future learning environments at SMMUSD. This process was overseen by an Educational Specifications Steering Committee that consisted of educators and leadership and focused on defining the District vision for future learning and the environments that support that vision.

The Districtwide Educational Specifications shift the instructional design of the past—defined by a traditional teacher-at-the-front-of-the-classroom style of learning—to one that provides for rotational learning in the classroom, incorporating a variety of project-based learning experiences that allow simultaneous individualized, small group, and large group instruction. Learning spaces would be adapted with enhanced flexibility, mobility, and access to technology and resources in real time, where instructors and students may shift seamlessly between programs and instructional opportunities. The Districtwide Education Specifications also call for larger classrooms, more and larger multipurpose rooms, and several new shared spaces that do not currently exist. The redesigned campus would have more square feet of interior space.

Following adoption of the Districtwide Educational Specifications, the District assessed the McKinley ES campus and identified priority and future improvements to be performed in accordance with the Districtwide Educational Specifications guidance. The campus assessment was a result of collaboration between SMMUSD administration leadership, McKinley ES administration, faculty, staff, and parents as well as the campus community at large. These improvements provide the basis for the long-range McKinley Elementary School Campus Master Plan (September 1, 2020), included as Appendix A(1), which presented a draft long-term "test fit" for the campus to implement the goals of the Districtwide Educational Specifications. The long-term test

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fit was further assessed alongside other District priorities and realities, including the need for recreational/open space, budget, scheduling, phasing, and the historical resources analysis. After Board Policy 7113 was adopted in February 2021, a Historical Resources Inventory (HRI) was completed by Historic Resources Group. Based on the findings of the HRI, additional analysis assessing the priorities for the site, and site/community meetings, the Board of Education reduced the scope of the Campus Plan on February 17, 2022 (see Appendix A(2)).

The primary goal of these planning efforts was to understand and scope candidate projects that could be implemented with existing Measure SMS bond funds, passed by Santa Monica taxpayers in 2018, while establishing those improvements as the first series of projects that would be implemented as part of the long-term redevelopment of the campus. The result is the Proposed Project, which constitutes the McKinley Elementary School Campus Master Plan evaluated in this EIR. The Campus Master Plan is the basis for development of the Proposed Project, which was reduced to meet a shorter, more realistic project scope and timeframe.

3.2 PROJECT LOCATION

The McKinley ES campus (Proposed Project's Site) is at 2401 Santa Monica Boulevard (Assessor's Parcel Number [APN] 4276-023-900) in the Mid-City neighborhood of the city of Santa Monica, Los Angeles County, California (see Figure 3-1, Regional Location). The District-owned, 6.48-acre rectangular parcel includes the existing campus. The campus is approximately 0.60 mile north of Interstate 10 (I-10) and two miles east of Pacific Coast Highway (PCH) and Santa Monica State Beach and is bounded by Santa Monica Boulevard to the southeast, Chelsea Avenue to the northeast, Arizona Avenue to the northwest, and 23rd Court (alley) to the southwest (Figure 3-2, Aerial Photograph). McKinley ES is in an urban area surrounded by residential, commercial, and institutional uses. Direct access to the campus is provided by Santa Monica Boulevard and Chelsea Avenue, with student drop-off/pick-up along Chelsea Avenue.

3.2.1 Surrounding Land Uses

McKinley ES is surrounded by dense urban residential neighborhoods immediately to the north, west, and south. Commercial uses are to the southeast and northeast, and two-three-story medical offices are to the south across Santa Monica Boulevard. Providence Saint John's Health Center consists of four-story midrise buildings one block south of 23rd Court. Residential properties located along Chelsea Avenue consist of both one- and two-story residences, residential properties along Arizona Avenue consist primarily of one-story residences, and residential properties along 23rd Court consist of two- and three-story residences. Additionally, commercial properties surrounding the campus along Chelsea Avenue and 23rd Court consist of one-story structures, and the medical offices located along Santa Monica Boulevard consist of three- and four-story structures. The campus is surrounded by properties zoned for Low-Density Residential (R2) and Mixed-Use Boulevard Low (MUBL) (Santa Monica 2015).

The surrounding residential neighborhood streets include Chelsea Avenue, Arizona Avenue, and 23rd Court (alley). Santa Monica Boulevard, a regional transportation corridor, is immediately south of the campus. Wilshire Boulevard is one block north of the campus.

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405 (170) Burbank Hidden Hills (27) [101] Glendal Los Angeles Calabasas Santa Monica Mountains West Beverly Hills Hollywood 2 Malibu Project Site 10 405 Santa Monica Culver City 90 (42) Inglewood Los Angeles International Airport Pacific Ocean 105 Hawthorne El Segundo Lawndale Gardena Manhattan Beach 107 (91) Hermosa Beach Redondo Beach 405 Torrance 213

Figure 3-1 - Regional Location

Note: Unincorporated county areas are shown in white.

Source: Generated using ArcMap, 2022.





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Figure 3-2 - Aerial Photograph



Source: Nearmap, Inc., 2022.

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3.2.1 General Plan and Existing Zoning

The City of Santa Monica General Plan Land Use designation for the campus is Institutional/Public Lands. The zoning designation for the campus is Institutional/Public Lands (PL) (see Figure 3-3a, *General Plan Land Use*, and Figure 3-3b, *Zoning Designations*). As stated in the Santa Monica Municipal Code, permitted uses include public or semipublic facilities, including municipal offices, schools, libraries, museums, performance spaces, cemeteries, corporation yards, utility stations, and similar uses. This zoning designation is consistent with the Land Use and Circulation Element's Institutional/Public Lands land use designation. Additionally, according to the City of Santa Monica's Local Coastal Plan, the campus is not within the Coastal Zone and therefore not subject to the City's Local Coastal Plan (LCP) (Santa Monica 2018a).

3.3 PROJECT OBJECTIVES

The following core objectives have been established based on the SMMUSD Districtwide Educational Specifications for the design of future learning environments at SMMUSD.

- Provide properly sized learning environments to accommodate students and a variety of 21st-century learning activities at the McKinley ES campus.
- 2. Advance educational facilities to support 21st-century learning and properly support the enrollment at the McKinley ES campus.
- 3. Improve learning at McKinley ES by replacing undersized and inflexible facilities with larger, flexible spaces that accommodate modern, diverse learning styles and allow for variable uses, such as rotational learning in the classroom and project-based learning that allows simultaneous individualized, small group, and large group instruction.
- 4. Provide enhanced, modern support spaces—such as libraries, cafeteria, labs, maker spaces, and other student services—that promote "whole child" development.
- 5. Organize the campus to provide safe student circulation.
- 6. Reorganize open space and foster intracampus circulation.
- 7 Provide safe and secure schools.
- 8. Maintain the campus's existing student capacity.

3.4 EXISTING CONDITIONS

Originally built in 1922, McKinley ES serves students in preschool, transitional kindergarten, kindergarten, and grades one through five. The campus includes 3 permanent buildings—i.e., Buildings A through C; 11 portable classrooms and 1 modular building, Building D; a recreation portable; fields and playgrounds; a student garden; and a parking lot along Chelsea Avenue (see Table 3-1, *Characteristics of Existing Buildings*, Figure 3-4, *Existing*

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Site Plan, and Figure 3-5, Photographs of the Existing Campus). Detailed descriptions of each building and ancillary features, including parking, are provided in Chapter 4, Environmental Setting.

Table 3-1 Characteristics of Existing Buildings

Building Name	Year Built	Current Use	Building Square Feet	Building Type	Building Height	Number of Stories
Α	1951	Multipurpose Cafeteria	4,439	Permanent	23 ft-8 in	1
В	1923	Classrooms	13,425	Permanent	41 ft-4 in	2
С	1923	Administration/Class rooms/Multipurpose Auditorium	27,390	Permanent	38 ft-6 in	2
D	1973	Preschool Classrooms	3,796	Modular	11 ft-9 in	1
B1-B3	Unknown	Classrooms	2,880	Portable	12 ft	1
B4-B9	Unknown	Classrooms	5,760	Portable	12 ft	1
B10-B11	Unknown	Classrooms	1,920	Portable	12 ft	1
Recreational Building	Unknown	Recreation	468	Portable	12 ft	1

Source: Historic Resources Group 2022.

The McKinley ES student capacity is based on California Department of Education standards. The current maximum enrollment capacity at McKinley ES is 814 students. Based on the Districtwide Educational Specifications, the current campus should support a maximum of 550 students. The Proposed Project would not increase the capacity of the campus capacity but would be designed to support the District's goals and objectives, as outlined in the Districtwide Education Specifications (SMMUSD 2019) in the 2020 McKinley ES Campus Master Plan.

3.4.1 Operational Schedule

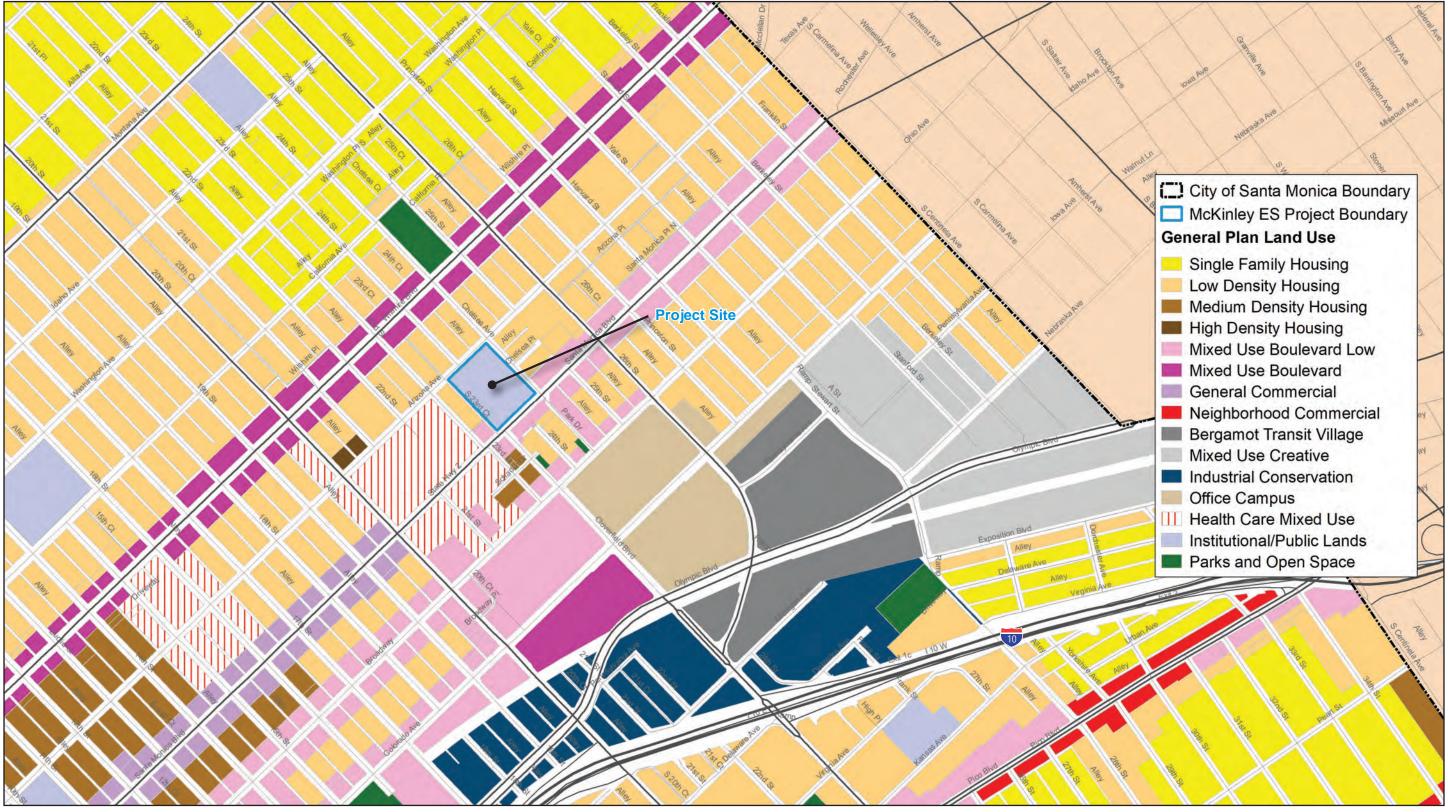
School hours would remain the same as existing hours, from 8:00 a.m. to 3:00 p.m., with staff and students arriving on campus between approximately 7:00 a.m. and 8:00 a.m. and leaving between approximately 3:00 p.m. After-school activities and staff work at the campus until 7:00 p.m., Monday through Friday during the school year.

3.4.2 Existing McKinley ES Campus Uses

The McKinley ES campus currently encompasses approximately 6.48 acres with 29 classrooms for K-12 and preschool. The campus also has classrooms for before-/after-school programs, science, art, and music; a multipurpose auditorium; a multipurpose cafeteria/kitchen; and a library. See Chapter 4, *Environmental Setting*, for additional information regarding the existing campus land use and facilities. In addition, the 6.48-acre campus includes approximately 2.83 acres of athletic fields, courts, and playgrounds (see Table 4-4, *Existing Recreational Facilities*).

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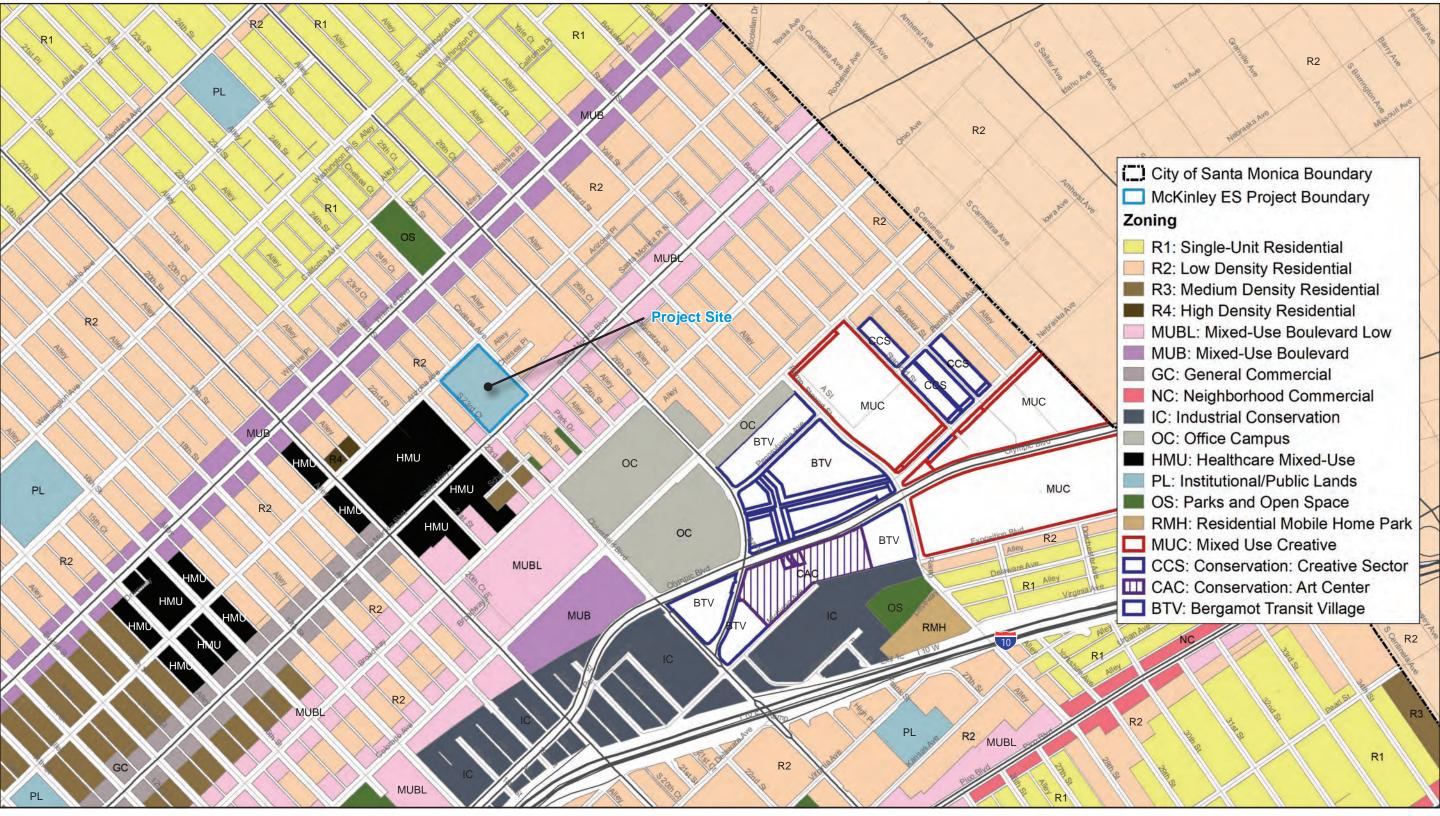
Figure 3-3a - General Plan Land Use



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Figure 3-3b - Zoning Designations



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CHELSEA PI CHELSEA AVENUE CHELSEA AVENUE PARK DR SANTA MONICA BLVD ARIZONA AVENUE 24TH COURT 24 TH STREET 24TH STREET CLOVERFIELD BLVD. 23RD COURT 23RD CT

Field/Grass Areas

Parking Lot

Hardtop

Figure 3-4 - Existing Site Plan

McKinley ES

Campus Boundary

Existing Building

Portables

Modular Building

Outdoor Playground Equipment

150

Scale (Feet)

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Figure 3-5 - Photos of the Existing Campus







Building C



Main Courtyard



Existing Parking Lot along Chelsea Avenue



"Story Book Land" Sculpture



Santa Monica Blvd Quad

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The existing athletic facilities at the school are available for community use through the Civic Center Act and a joint-use agreement between the District and the City. When the school facilities are not in use and are not scheduled for school-sponsored or other District-related events, certain community organizations and members are permitted to use school facilities for their events by obtaining a Civic Center Permit from the SMMUSD. Permitted events may include community and/or city use of the playfields, common areas, and classrooms, as permitted in the 2022 "Master Facility Use Agreements with the Santa Monica-Malibu Unified School" (City of Santa Monica 2022a).

Operation of the school facilities for community use typically occur outside normal school operating hours, generally after 3:00 p.m. on weekdays and after 8:00 a.m. on Saturdays and Sundays. Indoor activities are typically completed by 9:00 p.m. but would be permitted until 10 p.m., and all outdoor activities are completed by sunset on both weekdays and weekends. Parking for Civic Center uses would be provided in the school's onsite surface parking lots. These hours and the frequency of these uses would not change with the Proposed Project.

3.4.3 Campus History

The HRI identified a historic district at McKinley ES that is eligible for listing in the California Register of Historical Resources and for designation as a City of Santa Monica historic district under Chapter 9.56.100 (Landmarks and Historic Districts Ordinance) of the Santa Monica Municipal Code (SMMC) (Historic Resources Group 2022). The historic district is further discussed in Chapter 4, *Environmental Setting*, and Chapter 5-3, *Cultural Resources*, of this DEIR. Contributing elements of the historic district are Buildings B and C, two site features (Santa Monica Boulevard Quad and Main Courtyard), and two additional features ("Storybook Land" Sculpture and WPA Bronze Plaque), with a period of significance from 1923 to 1937(see Figure 3-6, *Historic District Boundary*, and Table 4-5, *Features in the Historic District*). All other buildings and features on-site were determined ineligible for listing at the federal, state, and local levels (Historic Resources Group 2022).

As part of the McKinley ES design process, the District met with the Santa Monica Conservancy (Conservancy) for McKinley ES design review meetings to discuss the Proposed Project design. These meetings resulted in various revisions to the Proposed Project's design, including a reduced maximum building height. The District met with the Conservancy on July 28, 2022, August 18, 2022, and September 30, 2022. The District also held several community meetings presenting the ongoing design process and options.

3.5 PROJECT CHARACTERISTICS

"Project," as defined by the California Environmental Quality Act (CEQA) Guidelines, means:

... the whole of an action, which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, and that is any of the following: (1)...enactment and amendment of zoning ordinances, and the adoption and amendment of local General Plans or elements thereof pursuant to Government Code Sections 65100–65700. (14 Cal. Code of Reg. Section 15378[a])

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3.5.1 Proposed Project Development

The Proposed Project, which involves implementation of a Campus Master Plan, would be constructed in three phases over approximately 5.7 acres of the 6.48-acre campus. Redevelopment and modernization of McKinley ES includes the demolition and removal of some existing structures, renovation of remaining structures, and construction of two new buildings and outdoor facilities. As listed in Table 3-2, *Summary of Building Removal and Demolition*, 11 existing portable classrooms (B1 through B11), playground restrooms, one modular building (Building D), and one elevator (serving Buildings B and C) would be selectively demolished and removed as part of the Proposed Project, for a total of 82,505 square feet of demolition over three phases. Figure 3-7a through 3-7c, *Proposed Project's Site Plan*, shows ultimate buildout of the Proposed Project. Each phase of the Proposed Project is dependent on funding availability. Phase 1 is funded, and design is complete.

Table 3-2 Summary of Building Removal and Demolition

Name	Square Footage				
Phase 1					
Eleven Portable Classrooms (B1-B11)	10,560				
Playground Restrooms	468				
Existing Parking Lot	35,284				
Phase 1 Demolition Square Footage	46,312				
Phase 2					
Removal of Elevator that serves Buildings B and C	397				
Phase 2 Demolition Square Footage	397				
Phase 3					
One Modular Building (Building D)	3,796				
Interim Parking Lot	32,000				
Phase 3 Demolition Square Footage	35,796				
Total Demolition Square Footage	82,505				
Source: SMMUSD 2023.					

Phase 1

Phase 1 of the Proposed Project would require approximately 11,028 square feet of demolition, including the removal of 11 existing portable classrooms (B1 through B11) and one restroom building that sits on the playground. Additionally, the Proposed Project would require the removal and relocation of the 35,284-square-foot parking lot on the northern portion of the campus along Chelsea Avenue.

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CHELSEA AVENUE PARK DR REC 24TH COURT 24 TH STREET 24TH STREET CLOVERFIELD BLVD. 23RD COURT 23RD COURT McKinley ES **Existing Building** Modular Building Field/Grass Areas Hardtop Campus Boundary 150 Historic District Parking Lot Portables Outdoor Playground Equipment Boundary Source: Johnson Favaro, 2022. Scale (Feet)

Figure 3-6 - Historic District Boundary

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CHELSEA AVENUE CHELSEA AVENUE SITE PLAN KEY Removal of Eleven Portable Classrooms (B1-B11) 2 Removal of Playground Restrooms 2 Removal of Parking Lot along Chelsea Avenue 24TH COURT SANTA MONICA BLVD ① One New Classroom Building (New Elementary Classroom and New Front Office and School Support Spaces) New Parking Lot (Arizona Avenue/Chelsea Avenue) 24TH STREET 6 Renovated Library Interim Playgrounds (Located in place of Portable Buildings) 7 CLOVERFIELD BLVD. 23RD COURT 23RD COURT McKinley ES **Existing Building** Modular Building Field/Grass Areas Hardtop Campus Boundary 150 Portables Outdoor Playground Equipment Parking Lot Renovated Scale (Feet) **New Proposed** Buildings Source: Johnson Favaro, 2022. Renovated Open Space Structures Removed

Building

Figure 3-7a - Proposed Project Site Plan - Phase 1

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Figure 3-7b - Proposed Project Site Plan - Phase 2



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CHELSEA AVENUE CHELSEA AVENUE SITE PLAN KEY DROP OFF/PICK UP Removal of Modular Building (Building D) TURNAROUND Remove of Interim Parking Lot 2 along Arizona Avenue and Chelsea Avanue New Two-Story Building T-K/ 3 Kindergarten and Elementary 24TH COURT SANTA MONICA BLVD Classrooms New Parking Lot along Arizona Avenue and 23rd Court ARIZONA AVENUE 24TH STREET CLOVERFIELD BLVD. 23RD COURT 23RD COURT McKinley ES **Existing Building** Modular Building Field/Grass Areas Hardtop Campus Boundary 150 Portables Outdoor Playground Equipment Parking Lot Renovated Scale (Feet) **New Proposed** Buildings Source: Johnson Favaro, 2022. Renovated Open Space Structures Removed Building

Figure 3-7c - Proposed Project Site Plan - Phase 3

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Phase 1 of the Proposed Project would include the construction of a new, permanent, 24,410-square-foot, two-story classroom building with eight new elementary classrooms; a new front office; and school support spaces, including outdoor classrooms. As shown in Figure 3-7 a, *Proposed Project's Site Plan: Phase 1*, the new classroom building would replace the 11 portable classrooms and would be constructed in the location of the former parking lot. The new building would connect to the existing historic main buildings (Building C and B) at the second floor with covered walkways, and the new building would create a new west courtyard adjacent to Building C, with ornamental plantings and learning garden. The new classroom building would contain a new, approximately 24-foot-high East Loggia for outdoor classrooms along Chelsea Avenue. The height of the East Loggia would provide screening for the new classroom building and would be taller than the average heights of the students for security purposes. The proposed outdoor classrooms would be screened behind the new East Loggia and would include a 4-foot-tall privacy, safety, and security wall.

Phase 1 of the Proposed Project would also include renovation of the existing library in its current location on the eastern wing of Building C. The renovated library would be approximately 1,354 square feet and include new openings in existing walls for doors/windows; new floor framing; new ceiling and casework, upgraded lighting, and new electrical and data systems; and modifications to the heating, ventilation, and air conditioning (HVAC) system. The expanded library would accommodate 50 to 60 students; provide sitting and standing positions for staff, with visibility and clear lines of sight; include multipurpose and collaborative areas to support presentations; and provide access to tablets for students. The library renovation would not increase the library area.

Phase 1 of the Proposed Project would implement a new drop-off/pick-up area along Chelsea Avenue. An interim 32,000-square-foot parking lot would provide 93 stalls near the corner of Chelsea Avenue and Arizona Avenue, with an additional 2 stalls on the south side of the new building. The interim parking lot would remain at its proposed location until the implementation of Phase 3 of the Proposed Project. New playground areas totaling 15,587 square feet would be provided in place of the removed portables (B1 through B11)(see Figure 3-7a)

Phase 2

Phase 2 of the Proposed Project would include the demolition of the existing elevator serving Buildings B and C and the stair core serving Building C.

Phase 2 would also include an interior renovation of 2,330 square feet of administrative area in Building C. The former location of the front office in Building C would be renovated to provide a new faculty center with a work room, collaborative staff room, six offices, and a room for records. Phase 2 also includes the construction of a new elevator and stair core; a new 3,500-square-foot lunch shelter with lunch tables would be provided along the multipurpose room (Building A) to provide shade for outdoor seating; and a new learning garden to grow edible plants would be adjacent to the cafeteria. Phase 2 of the Proposed Project would also centralize the elementary playground areas and concentrate them closer to the core of the campus, which would result in a safe and visible play area. The field would be reconfigured to a standard rectangular play field centrally located in the southern portion of the campus (see Figure 3-7b, *Proposed Project's Site Plan: Phase 2*).

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Phase 3

Phase 3 of the Proposed Project would include the demolition of one preschool classroom modular building (Building D) and removal of the existing learning garden.

A new 26,500-square-foot, two-story transitional kindergarten, kindergarten, and elementary classroom building would be constructed during Phase 3. The new building would be constructed at the location of the interim parking lot, adjacent to the new two-story classroom building constructed in Phase 1 (see Figure 3-7a). Four kindergarten classrooms, one transitional kindergarten classroom, and two preschool classrooms would be on the first floor; four 4th grade classrooms and two Teaming Studios would be on the second floor, with outdoor classrooms adjacent to all indoor learning spaces.

In Phase 3, the area of the interim parking lot would be reduced to provide a total of 15 stalls for early education, visitors, and American with Disabilities Act (ADA) requirements along the Chelsea Avenue drop-off/pick-up queue, and a new parking lot with 78 parking stalls would be added in the northwest portion of the campus near the corner of Arizona Avenue and 23rd Court. One new parking lot in the western part of the campus would be provided along 23rd Court in place of the former location of the learning garden and portable classrooms B4 through B9. The remaining buildings would remain as is (see Figure 3-7c, *Proposed Project's Site Plan: Phase 3*).

As shown in Table 3-3, Summary of Proposed Project's Total Development, the Proposed Project would provide 14 new classrooms in two new buildings as well as new and reconfigured playfields/playgrounds and parking lots, for a total of 137,030 square feet of building space on the McKinley ES campus. At completion, the Proposed Project would result in a total of 33 classrooms, from preschool through 5th grade, including special education, and dedicated outdoor play areas for preschool through kindergarten for a total of 182,284 square feet of building space. New building heights would not exceed 38 feet-8 inches above natural grade.

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Table 3-3 **Summary of Proposed Project's Total Development**

Building	Status	Classrooms	Square Footage	Maximum Height
New Construction				
Phase 1				
One New Classroom Building (New Elementary Classrooms and New Front Office and School Support Spaces)	New	8	24,410	38 feet- 8 inches
New Parking Lot (Arizona Avenue/Chelsea Avenue)	New	-	32,000	-
Renovated Library	Existing	-	1,354	No Change
Interim Playground ¹ and New Open Space	New	-	15,587	-
Phase 1 Development Square Footage		-	73,351	
Phase 2				
Renovation of Building C	Existing	-	2,330	-
Lunch Shelter along Building A	New	-	3,500	-
New Elevator and Stair core for Building B and C.	New	-	870	-
Phase 2 Development Square Footage		-	6,700	
Phase 3				
New Two-Story Building for T-K/Kindergarten and Elementary Classrooms	New	6	26,500	42 feet- 8 inches
New Parking Lots (Arizona Avenue/23rd Court)	New	-	23,000	-
Reconfigured Playfields and New Open Space ²	New	-	7,479	
Phase 3 Development Square Footage	•	-	56,979	•
Subtotal – New Development		14	137,030	
Existing Buildings		-		
Building A	Existing	-	4,439	23 ft-8 in
Building B	Existing	8	13,425	41 ft-4 in
Building C	Existing	11	27,390	38 ft-6 in
Subtotal - Existing Development		19	45,254	
Total		33	182,284	
Source: SMMUSD 2023.				

Outdoor Facilities 3.5.2

The current configuration of the campus puts playground areas away from the heart of campus, limiting surveillance and supervision capability. The playground configuration creates 'blind spots' for supervision of the students, and it is not visible from the core campus. The preschool play areas are currently located adjacent to Building D with a chain link fence separating the play yards from Chelsea Avenue and Santa Monica Boulevard. Therefore, the current playground configuration compromises student safety and the staff's ability to control student activity.

As part of the Proposed Project, the early education and kindergarten play yard would be immediately adjacent to the early education classroom building and separated from the elementary playgrounds for greater safety. The elementary playground areas would be centralized and concentrated closer to the core of the campus,

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¹ Interim playground located in place of portable buildings

² Includes outdoor classrooms

which would result in a safe and visible play area. The field would be reconfigured to a standard rectangular play field centrally in the northern portion of the campus. The overall U-shaped configuration would provide most of the security enclosure for most outdoor spaces at the center of campus. New fences at would separate the reconfigured playfield and playground from the interim parking lot located along Chelsea Avenue. The new fences would be secured during school hours and open after school.

3.5.3 Site Access, Circulation, and Parking

Currently, site access is provided from Santa Monica Boulevard and along Chelsea Avenue. Building C faces Santa Monica Boulevard, and its architecture still signals that this is the front of school; however, because now most children are dropped off and picked up by automobile, and because Santa Monica Boulevard is a busy arterial, the front of school has migrated to the Chelsea Avenue frontage.

Both staff parking, early education parking, and student drop-off and pick-up are through the Chelsea Avenue lot, which creates inefficiency and safety issues. A staff parking lot with 82 parking stalls is on the eastern side of the campus, adjacent to the existing playground and Buildings B, C, and D; it is accessed from Chelsea Avenue. Additionally, one small parking lot with eight parking spaces is adjacent to Building A near the corner of 23rd Court and Santa Monica Boulevard, and service and deliveries occur separately and appropriately along 23rd Court, a city alley backing up to residential garages.

Main site access would remain along Chelsea Avenue after implementation of the Proposed Project. The Proposed Project would include a new early education/visitor parking lot with 15 parking stalls on Chelsea Avenue that would include an off-street lane for drop-off/pick-up and an arrival court east of the existing Building C. The existing lot in the eastern portion of the campus would be removed. One new parking lot in the western part of the campus would be provided along 23rd Court. The parking lot would include approximately 78 parking stalls and would provide staff and after-hours/weekend community parking. It would also retain 7 existing stalls along 23rd Court. Therefore, the Proposed Project would increase parking on the existing campus from 90 to 100 parking spaces.

Emergency vehicle access would continue to be provided on all four sides of campus. Additionally, access would be provided from the arrival court adjacent to Chelsea Avenue and the west parking lot, and truck access is afforded at the center of campus via Arizona Avenue and the playground areas.

3.5.4 Pedestrian Access

As described previously, the main pedestrian and vehicle entrance to the school would be along Chelsea Avenue, which would include a new arrival court for student pick-up and drop-off; additionally, pedestrian entry to the campus would remain along Santa Monica Boulevard at the front of campus for access to Building C. All classrooms on the ground and second floors would be connected via covered outdoor walkways on the inward-facing side of the east and west classroom wings. The preschool, transitional kindergarten, and kindergarten classrooms would have separate, dedicated entrances with dedicated parking for parents to walk children into class, and a dedicated reception and office area required near drop-off/pick-up. Special education classrooms would provide access to the dedicated drop-off/pick-up to accommodate buses; adjacency to parking (for instructors, aides, and volunteers); easy access to general classrooms, multipurpose room, library, and other

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daily use programs; proximity to administrative services, including nurse, flex administration office areas, psychology, and speech therapy; and adjacency to culinary cafe for integration with the rest of the student body.

Circulation within and around Building C would be restored and improved with outdoor covered walkways and classrooms at the perimeter of the main courtyard as well as covered outdoor walkways connecting the auditorium and multipurpose culinary café (Building A) across the new south courtyard.

3.5.5 Safety and Security

Most of the campus would be secured with buildings in which all circulation occurs on the inward-facing sides of its east and west wings. Walls would secure the enclosure of the early education and kindergarten play area at the northeast corner of campus. The new East Loggia located along the northern portion of the campus would be approximately 24-foot-high, and outdoor classrooms would be screened behind the new East Loggia by a 4-foot-tall privacy, safety, and security wall. Perimeter fences and walls secure the south courtyard, the learning garden, and the north campus field and playground areas. Parking lots are secured with vehicle gates at each of the two locations east and west, and after-hours community access is afforded via gates on the north and west sides of campus.

3.5.6 Landscaping Improvements

Perimeter landscaping and street trees would be provided at Arizona Avenue. Early education, kindergarten, and elementary play areas as well as the playground areas and corners of the field, would include multiple trees. New trees would be placed in the new learning garden and east courtyard created between the new classroom building and Building C's north wing. All existing mature trees in the historic main courtyard and at the northwest corner of campus would be maintained.

3.5.7 Sustainability Features

All new buildings developed under the Proposed Project would be designed using applicable green building practices, including those of the most current Building Energy Efficiency Standards (24 CCR Part 6) and California Green Building Standards Code (CALGreen; 24 CCR Part 11). The Proposed Project would be developed with High Performance Schools (CHPS) Green Building Resolution Standards, and would be consistent with the energy-related goals and actions of the Districtwide Plan for Sustainability (SMMUSD 2019). As part of implementation of the Strategic Energy Management Plan, the District would continue to install occupancy sensors in all classrooms and offices to allow lights to be shut off when unoccupied; establish lighting- and equipment-efficiency standards for all new equipment that meet or exceed Title 24 standards, where feasible; install Title 24—compliant or better HVAC units for District sites that require cooling; install wireless thermostats for new HVAC units to allow the District to implement energy saving strategies, such as thermostat lockout temperatures and occupied/unoccupied scheduling; install energy management systems (EMS) for remaining school sites to allow control at both the site and District level; and connect wireless thermostats to the EMS system. Additional bike racks would be installed to accommodate at least 10 percent of regular building occupants, with a goal to reach 20 percent capacity by 2030.

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3.5.8 Utilities

Utility improvements necessary to serve the proposed buildings and modernization would be constructed. The future on-site utilities would connect to existing facilities serving the campus. The Proposed Project would only connect to existing utilities, and no utility expansion would be required.

Electrical

Electrical utilities for the Proposed Project would connect to the existing electrical lines within the McKinley ES campus, including an existing power pole located on the northeastern corner of the campus, and one electrical power pole located on the southeastern corner of the campus. Additionally, one electrical line reroute may be required on the northern boundary of the campus, along Chelsea Avenue. In-depth analysis would be performed to determine necessary improvements for future phases of the Proposed Project.

Sewer

The existing campus has several points of connection to public sewer mains. Sewer mains generally run north to south on along Santa Monica Boulevard onto Chelsea Avenue and 23rd Court (alley). In-depth analysis would be performed to determine necessary improvements for future phases of the Proposed Project.

Water

The Proposed Project would need to reconnect to existing downspouts on the eastern and southwestern boundaries of the campus. Additionally, secondary storm drain (SD) main routing will be shown once the location and depths are verified. In-depth analysis would be performed to determine necessary improvements for future phases of the Proposed Project.

3.6 PROJECT CONSTRUCTION

The Proposed Project would be constructed in three phases, with construction activities for Phase 1 anticipated to start in the summer 2023. While the exact dates for the later phases are not known, for purposes of evaluating potential impacts from implementation of the Proposed Project, construction activities for Phase 2 were assumed to start in summer 2025, and construction activities for Phase 3 were assumed to start in summer 2028 (as shown in Table 3-4, *Proposed Project Phasing*).

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Table 3-4 Proposed Project's Phasing

Phase	Demolition	Demolition Square Footage	New Construction	New Building Square Footage	Timeline
1	Eleven Portable Classrooms (B1-B11) Playground Restrooms Existing Parking Lot	46,312	 One New Classroom Building (New Elementary Classrooms and New Front Office and School Support Spaces) New Parking Lot (Arizona Avenue/Chelsea Avenue) Renovated Library Interim Playground 	73,351	Summer 2023 (18 months)
2	Removal of Elevator that serves Buildings B and C	397	 Renovation of Building C Lunch Shelter along Building A New Elevator and Stair core for Buildings B and C New Playfields and Playgrounds 	6,700	Summer 2025 (18 months)
3	One Modular Building (Building D) Interim Parking Lot	35,796	New Two-Story Building for T- K/Kindergarten and Elementary Classrooms New Parking Lots (Arizona Avenue/23rd Court and Chelsea Avenue)	56,979	Summer 2028 (21 months)

The construction for Phase 1 would occur over approximately 18 months and include the following activities: demolition of the portable classrooms, grading and excavation, trenching for site utilities and irrigation, building construction, architectural coatings, driveway and walkway construction, landscaping, and parking lot improvements. The construction for Phases 2 and 3 are anticipated to occur over approximately 18 months and 21 months, respectively. In response to comments received during the 30-day public review period for the Initial Study and Notice of Preparation, the District will not request a permit to allow for construction outside of the allowed hours identified in SMMC Section 4.12.110(a). The District would post one sign along the street frontage of each construction area and notifications to neighbors within a 500-foot radius of construction activities. The notifications would include a description of the activities and the dates and times that these activities would take place. The notifications must also include the contact information of the permit holder (i.e., the District) and the City contact. The District would be required to follow Santa Monica Municipal Code Section 4.12.110, which limits the hours of construction to 8:00 a.m. to 6:00 p.m. on weekdays and 9:00 a.m. to 5:00 p.m. on Saturday; and prohibits construction on Sundays and holidays. In response to public comments, the District determined that a sound wall would be provided along Chelsea Avenue and a portion of Arizona Avenue during various phases of construction to attenuate construction noise.

School operation would continue during construction as under current conditions, and students would occupy existing buildings on the McKinley ES campus during construction activities. Table 3-4 provides details for each construction phase, including timing, amount of demolition, new construction, and infrastructure improvements for each phase.

3.6.1 Construction Phasing

The Proposed Project would be developed in three phases over approximately five years. Phase 1 is funded, and Phases 2 and 3 would depend on funding availability. The Proposed Project's activities in each phase are described.

Phase 1

Phase 1 of the Proposed Project would include the removal of 11 portable classrooms and playground restrooms. Phase 1 would develop 8 new classrooms in a new building, a new front office and school support spaces, a new parking lot, and new drop-off/pick-up areas. The existing library would be renovated as part of Phase 1.

Phase 2

Phase 2 of the Proposed Project would include renovation of building C to provide a new faculty center, new lunch shelter, and new exit stairs and elevator.

Phase 3

Phase 3 of the Proposed Project would include removal of the modular preschool classroom building, removal of the existing learning garden, and removal of the interim parking lot. The new two-story transitional kindergarten/kindergarten elementary classroom building and new parking on the northwest side of the campus would be included in Phase 3.

3.6.2 Construction Grading

Excavation would result in approximately 7,900 cubic yards of cut and fill throughout all three phases of the Proposed Project, as shown in Table 3-5, *Proposed Project Cut/Fill by Phase*, and no imported soils would be necessary.

Table 3-5 Proposed Project Cut/Fill by Phase

Phase	Cut (cy)	Fill (cy)	Project Phase Total (cy)
1	3,700	3,700	0
2	1,700	1,700	0
3	2,500	2,500	0
Total	7,900	7,900	0
Source: SMMUSD 2023			

3.6.3 Construction Traffic

Construction of the Proposed Project would temporarily generate additional traffic on the existing area roadway network. These vehicle trips would include construction workers traveling to the campus as well as

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delivery trips associated with construction equipment and materials. Delivery of construction materials to the campus would require several oversized vehicles that may travel at slower speeds than existing traffic. Construction traffic would be scheduled in concert with the operations of the school, ensuring that trucks are not moving in or out during drop-off or pick-up times. Construction workers would park in the designated staging area to provide adequate parking for all employees and visitors to the campus throughout the duration of construction activities of the Proposed Project.

3.6.4 Construction Staging

The limits of construction staging for each phase of the Proposed Project would be minimal and confined to each phase area. Additionally, a designated area for stockpiling activities would be available within the campus. This would serve as a meeting point for hauling operations and coordination with trucking entry, turn around, and exit.

3.7 REQUIRED PERMITS AND APPROVALS

As required by CEQA Guidelines, this section provides, to the extent the information is known to the District, a list of the agencies that are expected to use the environmental analysis of the Proposed Project in their decision-making. This section also lists the permits and other approvals required to implement the Proposed Project.

3.7.1 Lead Agency Approval

SMMUSD is the lead agency under CEQA and is carrying out the Proposed Project. In order to approve the Proposed Project, the SMMUSD Board must first certify the Final Environmental Impact Report (FEIR) and adopt, as applicable, a Mitigation Monitoring Reporting Program (MMRP), findings, and a statement of overriding considerations. The Board will consider the information in the EIR when making its decision to approve or deny the Proposed Project, or in directing modifications to the Proposed Project in response to the EIR's findings and mitigation measures. The EIR is intended to disclose to the public the Proposed Project's details, analyses of the Proposed Project's potential environment impacts, and identification of feasible mitigation or alternatives that would lessen or reduce significant impacts to less-than-significant levels.

3.7.2 Other Required Permits and Approvals

A public agency other than the lead agency that has discretionary approval power over a part of a project is known as a "responsible agency," defined by CEQA Guidelines Section 15381. A state agency having jurisdiction by law over natural resources that are held in trust for the people of the State of California and are affected by a project is known as a "trustee agency," as defined by CEQA Guidelines Section 15386. The Project would not require approval from a trustee agency. The responsible agencies and their corresponding approvals for the Proposed Project may include:

State Agencies

Since the District is expected to seek State funding, the California Department of Toxic Substances Control (DTSC) would have to give Site Certification that the campus would not cause unacceptable exposures to hazardous substances.

■ City of Santa Monica

- Santa Monica Fire Department and Police Department (Approval of Site Plan for Emergency Access)
- Public Works/Engineering (for grading permit)

3.7.3 Other Reviewing Agency Actions and Approvals

The following agencies would have ministerial review and approvals over the Proposed Project:

- Division of the State Architect (Approval of Construction Drawings)
- Los Angeles Regional Water Quality Control Board (RWQCB) (Issuance of waste discharge requirements)
- South Coast Air Quality Management District (SCAQMD)

3.8 REFERENCES

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Santa Monica-Malibu Unified School District. 2019. Districtwide Educational Specifications. http://fip.smmusd.org/pdf/SMMUSD-EDSPECS031519.pdf.
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4.1 INTRODUCTION

This section provides a description of the "physical environmental conditions in the vicinity of the project, as they exist at the time the notice of preparation is published, ... from both a local and a regional perspective", pursuant to provisions of the California Environmental Quality Act (CEQA) and the CEQA Guidelines, Section 15125(a)(1). The environmental setting provides the baseline physical conditions from which the lead agency will determine the significance of environmental impacts resulting from the McKinley Elementary School Campus Master Plan Project (Proposed Project). Subsections of Chapter 5, Environmental Analysis, provide more detailed descriptions of the local, regional, state, and federal regulatory and environmental settings for specific topical areas.

4.2 REGIONAL ENVIRONMENTAL SETTING

4.2.1 Regional Location

McKinley Elementary School is in the City of Santa Monica, which is in the southwestern portion of Los Angeles County. Santa Monica is a coastal city that is bordered by the Pacific Palisades neighborhood and the Santa Monica Mountains to the north, the neighborhood of Venice to the south, the neighborhood West Los Angeles to the east, and the Pacific Ocean to the west (see Figure 3-1, Regional Location).

Regional access is provided by Interstate 10 (I-10) which runs generally east-west through the city, and State Route 1 (SR-1), or Pacific Coast Highway (PCH), which runs along the western border of the city. A light rail line, Metro E line (Expo), with a stop approximately 0.6 mile from the Proposed Project's Site, provides regional access and connects to other Metro lines (D, A, B lines) in Downtown Los Angeles approximately 11 miles away.

4.2.2 Regional Planning Consideration

4.2.2.1 AIR QUALITY

South Coast Air Basin Air Quality Management Plan

The city is in the South Coast Air Basin (SoCAB), which is managed by the South Coast Air Quality Management District (South Coast AQMD). The SoCAB includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The South Coast AQMD is the air pollution control agency primarily responsible for preparing the Air Quality Management Plan (AQMP) in coordination with the California Air Resources Board (CARB), the Southern California Association of Governments (SCAG), and the US Environmental Protection Agency (EPA). The AQMP is a comprehensive air pollution

control program for making progress towards and attaining the established state and federal ambient air quality standards (AAQS).

The air pollutants emitted into the ambient air by stationary and mobile sources are regulated by federal and state law. These regulated air pollutants are known as criteria air pollutants and are carbon monoxide, volatile organic compounds (VOC), nitrogen oxides (NO_X), sulfur dioxide, coarse inhalable particulate matter (PM₁₀), fine inhalable particulate matter (PM_{2.5}), and lead. VOC and NO_X are criteria pollutant precursors and go on to form secondary criteria pollutants, such as ozone (O₃), through chemical and photochemical reactions in the atmosphere. Air basins are classified as attainment/nonattainment areas for particular pollutants depending on whether they meet AAQS for that pollutant. The SoCAB is designated nonattainment for O₃ and PM_{2.5} under the California and National AAQS, nonattainment for PM₁₀ under the California AAQS, and nonattainment for lead under the National AAQS (US EPA 2022).

The Proposed Project's consistency with the applicable AAQS is discussed in Section 5.2, Air Quality.

4.2.2.2 GREENHOUSE GAS EMISSIONS

Current State of California guidance and goals for reductions in greenhouse gas (GHG) emissions are generally embodied in Executive Order S-03-05; Executive Order B-30-15; Assembly Bill 32 (AB 32), Senate Bill 32 (SB 32), the Global Warming Solutions Act (2008); and Senate Bill 375 (SB 375), the Sustainable Communities and Climate Protection Act.

Executive Order S 03 05, signed June 1, 2005, set the following GHG reduction targets for the State of California:

- 2000 levels by 2010
- 1990 levels by 2020
- 80 percent below 1990 levels by 2050

AB 32 was passed by the state legislature on August 31, 2006, to place the state on a course toward reducing its contribution of GHG emissions. AB 32 follows the emissions reduction targets established in Executive Order S-3-05. Based on the GHG emissions inventory conducted for its 2008 Scoping Plan, CARB approved a 2020 emissions limit of 427 million metric tons of carbon dioxide-equivalent emissions (MMTCO₂e) for the state (CARB 2008). CARB is required to update the Scoping Plan every five years. In 2015, Governor Brown signed Executive Order B-30-15 into law, establishing a GHG reduction target for year 2030, which was later codified under SB 32 (2016). The 2022 update to the Scoping Plan addresses the 2030 target of 40 percent below 1990 levels (CARB 2022).

In 2008, SB 375 was adopted to connect GHG emissions reductions targets for the transportation sector to local land use decisions that affect travel behavior. Its intent is to reduce GHG emissions from light-duty trucks and automobiles by aligning regional long-range transportation plans, investments, and housing allocations with local land use planning to reduce vehicle miles traveled and vehicle trips. SCAG's targets are an 8 percent per capita reduction from 2005 GHG emission levels by 2020 and a 13 percent per capita reduction from 2005 GHG emission levels by 375 required CARB to establish GHG emissions reduction

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targets for each of the 17 regions in California managed by a metropolitan planning organization (MPO). In addition, SB 375 requires CARB to update the targets for the MPOs every eight years. The targets set by CARB in 2018 for the SCAG region were an 8 percent per capita reduction from 2005 GHG emission levels by 2020 (unchanged from the 2010 target) and a 19 percent per capita reduction from 2005 GHG emission levels by 2035 (CARB 2018). The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) projects that the SCAG region will meet its GHG per capita reduction targets of 8 percent by 2020 and 19 percent by 2035. Additionally, it is also projected that implementation of the plan would reduce vehicle miles traveled (VMT) per capita for year 2045 by 4.1 percent compared to baseline condition for the year (SCAG 2020).

The Proposed Project's consistency with CARB's Scoping Plan is discussed in Section 5.6, *Greenhouse Gas Emissions*.

SCAG Regional Transportation Plan/Sustainable Communities Strategy

SCAG is a council of governments representing Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura Counties. SCAG is the federally recognized MPO for this region, which encompasses over 38,000 square miles. SCAG is a regional planning agency and a forum for addressing regional issues concerning transportation, the economy, community development, and the environment. SCAG is also the regional clearinghouse for projects requiring environmental documentation under federal and state law. In this role, SCAG reviews proposed development and infrastructure projects to analyze their impacts on regional planning programs. As the southern California region's MPO, SCAG cooperates with South Coast AQMD, the California Department of Transportation (Caltrans), and other agencies in preparing regional planning documents. The South Coast AQMD is an air pollution agency responsible for regulating stationary sources of air pollutions in Southern California. SCAG has developed regional plans to achieve specific regional objectives, as discussed below.

Regional Transportation Plan/Sustainable Communities Strategy

On September 13, 2020, SCAG adopted the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), also known as Connect SoCal. The RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. The plan is a requirement of the state of California and the federal government and is updated by SCAG every four years as demographic, economic, and policy circumstances change. Connect SoCal embodies a collective vision for the region's future and is developed with input from local governments, county transportation commissions, tribal governments, nonprofit organizations, businesses, and local stakeholders. The 2020-2045 RTP/SCS includes growth forecasts that estimate employment, population, and housing growth. These estimates are used by SCAG, transportation agencies, and local agencies to anticipate and plan for growth. Connect SoCal works to address residents' challenges by promoting job accessibility, enabling shorter commutes, making communities safer, and encouraging lower-cost housing developments. One of the key goals is to encourage development of diverse housing types in areas that are supported by multiple transportation options.

The Proposed Project's consistency with the applicable 2020-2045 RTP/SCS policies is analyzed in detail in Section 5.12, *Transportation*.

4.3 LOCAL ENVIRONMENTAL SETTING

4.3.1 Project Location

The McKinley Elementary School (ES) campus is at 2401 Santa Monica Boulevard (Assessor's Parcel Map Numbers [APN] 4276-023-900) in the Mid-City neighborhood of Santa Monica, in southwest Los Angeles County (see Figure 3-1). The 6.48-acre rectangular parcel consists of the existing McKinley ES Campus, which is bounded by Santa Monica Boulevard to the southeast, Chelsea Avenue to the northeast, Arizona Avenue to the northwest, and 23rd Court (alley) to the southwest (Figure 3-2, *Aerial Photograph*). The campus is surrounded by residential, commercial, and medical uses.

4.3.2 Surrounding Land Uses

The McKinley ES campus is surrounded by low-density residential neighborhoods to the immediate north, west, and south. Commercial uses are to the southeast and northeast, and medical offices are to the south across Santa Monica Boulevard. Providence Saint John's Health Center consists of midrise buildings one block south of 23rd Court. Residential properties along Chelsea Avenue consist of both one- and two-story residences, residential properties along Arizona Avenue consist primarily of one-story residences, and residential properties along 23rd Court consist of two- and three-story residences. Additionally, commercial properties surrounding the campus along Chelsea Avenue and 23rd Court consist of one-story structures, and the medical offices along Santa Monica Boulevard consist of three- and four-story structures. The campus is surrounded by properties zoned for Low-Density Residential (R2) and Mixed-Use Boulevard Low (MUBL) (Santa Monica 2015).

The surrounding residential neighborhood streets include Chelsea Avenue, Arizona Avenue, and 23rd Court (alley). Santa Monica Boulevard, a regional transportation corridor, is immediately south of the campus. Wilshire Boulevard is one block north of the campus.

4.3.3 McKinley Elementary School Existing Conditions

Originally built in 1922, McKinley ES serves students in preschool, transitional kindergarten, kindergarten, and grades one through five. The campus contains 3 permanent buildings, identified as Buildings A through C; 11 portable classrooms; 1 modular building, Building D; a recreational portable; fields and playgrounds; a student garden; and a parking lot along Chelsea Avenue (see Table 3-1, *Characteristics of Existing Buildings*).

Building C is the main campus building and includes Administration/Classrooms/Multipurpose Auditorium; it is along the southern portion of the campus, set back approximately 105 feet from Santa Monica Boulevard. Kindergarten classrooms are on the ground floor of Building C in the south wing facing the Santa Monica Quad; elementary classrooms occupy the second floor of Building C's south wing and both floors of the north wing. The library occupies a room at the east end of the south wing of the main building, and the auditorium is at the west end (see Figure 3-4, Existing Site Plan, and Figure 3-5, Photographs of the Existing Campus). These buildings are concentrated in the southern part of the campus nearest Santa Monica Boulevard.

Building C faces Santa Monica Boulevard, and its architecture signals that it is the front of the campus. However, because most children arrive by automobile and are dropped off and picked up, the front of school

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migrated along Chelsea Avenue because of the traffic along Santa Monica Boulevard. The campus frontage facing Santa Monica Boulevard includes a landscaped quad with lawns, mature trees, and several concrete walkways leading to the main school entrance. To the west of the Santa Monica Quad are three portable classrooms near the corner of 23rd Court and Santa Monica Boulevard, and to the east of the Santa Monica Quad the existing Building D and early education and kindergarten play yards are behind six-foot-tall, chain-link fences along Santa Monica Boulevard. The existing surface parking lot includes 90 parking stalls and is accessed via Chelsea Avenue. There are buffer plantings around the perimeter of the parking lot. The northern portion of the campus has open space for school recreation. Much of this space consists of an approximately 123,275-square-foot paved asphalt surface that is used for basketball and athletic courts and contains several shade structures. There is also playground equipment installed on artificial turf and a small learning garden on the northwest corner of the campus.

The permanent buildings A, B, and C were constructed in the Italian Renaissance Revival style of architecture. The following sections include an architectural description of each building.

Building A (Cafeteria)

Building A is along 23rd Court in the southeastern part of the campus. It is a one-story, 4,439-square-foot permanent building, with a height of 23 feet 8 inches, and contains the school's cafeteria. Building A is connected to Building C via the building's arcade. This arcade extends from the eastern corner to create the West Courtyard.

Building B (Classrooms)

Building B is in the central portion of the campus immediately north of Building C. The two-story, 13,425-square-foot building contains classrooms and has a height of 41 feet 4 inches. Two concrete ramps provide entrance to the first story's south façade. An elevator and connected arcade at the northwest corner of the building provide access to the second story. A metal staircase allows emergency exit from the second story along the north façade.

Building C (Administration/Classrooms/Multipurpose Auditorium)

Building C is in the southern part of the campus, immediately south of Building B. Building C consists of a central, two-story, 27,390-square-foot building with a height of 38 feet 6 inches, flanked on both ends by single-story wings. This building contains classrooms, administrative office, and the multipurpose auditorium.

Building D (Preschool)

Building D is in the eastern part of the campus just east of Building C and is a rectangular, one-story, 3,796-square-foot modular building with a height of 11 feet 9 inches. This building contains preschool classrooms. The slightly raised concrete platform is accessible via a ramp.

Santa Monica Boulevard Quad

Situated south of Building C, the open space is traversed by several concrete walkways that historically provided pedestrian access to the original entrance on Santa Monica Boulevard. The setback is generally consistent and is landscaped with grassy lawns and mature trees of various species.

Main Courtyard

The Main Courtyard is surrounded by Building B to the north and Building C to the east, south, and west. The courtyard is landscaped with grassy lawns, mature trees, and concrete patios interspersed with lunch tables, lampposts, and trash receptacles. The "Storybook Land" sculpture is in the center of the courtyard on a tiered pedestal that is clad in tile.

West Courtyard

The courtyard is paved and includes picnic tables; it is bordered by Building C to the east and south and by Building A to the west.

Athletic Field

The athletic field was originally a larger lawn that has been sectioned over time as various regions of the campus have been incrementally paved. It is in the northwestern part of the campus.

Learning Garden

A 7,500-square-foot learning garden for the students is at the northwest corner of the campus.

4.3.3.1 STUDENT ENROLLMENT

Enrollment at McKinley ES has decreased since 2016, from a high of approximately 538 students to 375 in the 2021-2022 school year. The enrollment increased to 407 students in the 2022-2023 school year (see Table 4-1, McKinley Elementary School Student Enrollment by Grade Level).

Table 4-1 McKinley Elementary School Student Enrollment by Grade Level

			.,			····		•		
Grade	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Transitional Kindergarten	24	48	42	46	21	23	20	18	16	19
Kindergarten	81	54	92	76	69	72	74	50	59	59
1st Grade	83	84	52	90	74	67	73	68	53	63
2nd Grade	85	87	83	58	91	70	62	70	62	54
3rd Grade	63	84	90	82	63	92	67	59	69	76
4th Grade	77	62	88	88	84	62	90	62	57	73
5th Grade	77	80	65	98	86	89	64	81	59	63
Total	490	499	512	538	488	475	450	408	375	407
Source: SMMUSD CE	BEDS 2006-2022.									

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The McKinley ES student capacity is based on California Department of Education standards. The current maximum enrollment capacity at McKinley ES is 814 students. This is a maximum where every space is used as a classroom and is full of students. Based on the classroom maximums negotiated in the current collective bargaining agreement with the Santa Monica Malibu Classroom Teachers Association, the maximum enrollment capacity is 609 students. However, neither of these maximum capacity numbers reflect current instruction methods or is anticipated based on actual enrollment trends. Based on the Districtwide Educational Specifications, the current campus should support up to a maximum of 550 students. The Proposed Project would not increase the capacity of the campus capacity but would be designed to support the District's goals and objectives outlined in the Districtwide Education Specifications (SMMUSD 2019) in the 2019 SMMUSD Education Master Plan.

4.3.3.2 EXISTING MCKINLEY ES CAMPUS USES

The campus encompasses approximately 6.48 acres (see Table 4-2, Existing Campus Land Use), with a total existing building area of 63,171 square feet, which includes approximately 54,531 square feet of permanent building area and 8,640 square feet of portable building area.

Table 4-2 Existing Campus Land Use

Area	Acres	Percentage
Building Footprint	1.09	17
Playground and Fields	2.83	44
Unprogrammed Landscape and Open Space	0.99	15
Pedestrian Circulation	0.73	11
Vehicular Circulation and Parking	0.84	13
Total	6.48	100
Source: SMMUSD 2023.		•

The existing campus contains 29 classrooms, shown by grade in Table 4-3, Existing Facilities. The campus also has classrooms for before-/after-school programs, science, art, and music; a multipurpose auditorium; a multipurpose cafeteria/kitchen; and a library.

Table 4-3 Existing Facilities

Campus Facilities	Quantity	Classroom Location
Preschool	2	Building D
Transitional Kindergarten	1	Building C
Kindergarten	3	Building C
1st Grade	3	Building B
2nd Grade	3	Portables B4, B6, and B8
3rd Grade	3	Building B and Portables B10 and B11
4th Grade	3	Building B
5th Grade	3	Building C
Special Education	8	Portables B1 and B7, Building C, and Building D
Core Classrooms	29	
SAP Childcare and Learning Annex	3	Potables B2, B3, and B5
Art Classrooms/Flexible Science/Art	1	Building C
STEM Classrooms/Maker Lab	1	Building C
Multipurpose/Music	1	Building B
Multipurposed Auditorium	1	Building C
Multipurpose Culinary/Cafeteria	1	Building A
Library	1	Building C and Portable B9
Specialized/Flexible Rooms	9	

In addition, the 6.48-acre campus includes approximately 2.83 acres of athletic fields, courts, and playgrounds, as shown in Table 4-4, Existing Recreational Facilities. The existing recreational area includes a natural turf field and perimeter track adjacent to Arizona Avenue; a mixture of hard court and resilient play areas with equipment make up the remainder of the sizable playgrounds, which occupy the north half of campus. Wall ball courts in the northeast corner are hard to surveil across the play yards. Additionally, a preschool and kindergarten play yard made of hard top and resilient surfacing and equipment allows separate play for younger children.

Table 4-4 Existing Recreational Facilities

Area	Acres
Older Children's Track and Field	0.94
Older Children's Playground	1.52
Playground equipment on resilient surface	0.03
Playground equipment on resilient surface	0.04
Playground equipment on resilient surface	0.03
Playground equipment on resilient surface	0.03
Shared Pre-K & Kindergarten playground equipment on resilient surface	0.02
Shared Pre-K & Kindergarten playground equipment on resilient surface	0.06
Shared Pre-K & kindergarten playground area	0.16
Total	2.83
Source: SMMUSD 2023.	

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The existing athletic facilities at the school are available for community use through the Civic Center Act and joint use agreement between the District and the City. When the school facilities are not in use and are not scheduled for school-sponsored or District-related events, certain community organizations and members are permitted to use school facilities for their events by obtaining a Civic Center Permit from the SMMUSD. Permitted events may include community and/or city use of the playfields, common areas, and classrooms, as permitted in the 2022 "Master Facility Use Agreements with the Santa Monica-Malibu Unified School" (City of Santa Monica 2022a).

Operation of the school facilities for community use typically occur outside normal school operating hours, generally after 3:00 p.m. on weekdays, and after 8:00 a.m. on Saturdays and Sundays, and all outdoor activities are completed by sunset on both weekdays and weekends. Indoor activities are typically completed by 9:00 p.m. but are permitted until 10:00 p.m.. Parking for Civic Center uses is provided in the school's on-site surface parking lots. These occasional uses would not change with the Proposed Project.

4.3.4 Campus History

The original campus was constructed in 1905 about one-quarter mile northwest of its present-day location and was rebuilt in 1922 at its current location. The new campus was designed by Los Angeles master architectural firm Allison & Allison in the Italian Renaissance Revival style. In 1933 a magnitude 6.4 earthquake in Long Beach caused extensive damage throughout the region. Following the earthquake, the architectural firm of Parkinson & Parkinson rehabilitated the damaged school from 1935 to 1937.

Although construction ceased during the World War II years (1939 to 1945), development and expansion of the campus resumed shortly thereafter to meet increased student demand. Subsequent construction at the school in the postwar era (1945 to 1968) was not completed as part of long-term planning efforts. In 1951, architect Joe M. Estep designed the cafeteria building to the west of the main building. The cafeteria was connected via two arcades, thereby creating the smaller West Courtyard. In 1973, the architectural firm of Powell, Morgridge, Richards & Coghlan remodeled the campus. This work included alterations to the main entrance and the replacement of windows and doors. In 1973, Building D was constructed as the preschool for the campus (see Figure 3-4).

The existing campus has four permanent buildings as well as athletic facilities, open spaces, and artwork. Building A (Cafeteria) was constructed in 1951 and designed by Joe M. Estep. Building B (Classrooms Building) was constructed in 1923 and designed by Allison & Allison. The building was rehabilitated by Parkinson & Parkinson in 1935 to 1937 and by Powell, Morgridge, Richards & Coghlan in 1973. Building C (Classrooms/Kindergarten) was constructed in 1923 and designed by Allison & Allison. The building was expanded by Allison & Allison in 1929 and 1930. It was rehabilitated by Parkinson & Parkinson in 1935 to 1937 and by Powell, Morgridge, Richards & Coghlan in 1973. An addition was added to the west wing facing the courtyard circa 1958. The building was again altered in 1999. Building D (preschool) was constructed circa 1973.

The Santa Monica Boulevard Quad that is south of Building C along Santa Monica Boulevard dates to the beginnings of the campus (circa 1923) and has been modified over time; the Main Courtyard also dates to the

early development of the campus (circa 1923). The West Courtyard dates to circa 1951 and was created by the arcade built at that time.

The Main Courtyard of the campus also includes "Storybook Land," a four-foot-tall, cast stone sculpture that depicts two children reading a book and was created by artist Stefan De Vriedt in 1936. The sculpture was funded by the Works Progress Administration (WPA). In 1937, a bronze plaque was installed by the WPA in Building C after its reconstruction. As shown in Table 3-1, *Characteristics of Existing Buildings*, Buildings B and C were constructed in the 1920s; Building A was constructed in the 1950s; and Building D was constructed in the 1970s.

4.3.4.1 HISTORICAL RESOURCES INVENTORY

In February 2021, the District adopted Board Policy (BP) 7113 and the accompanying Administrative Regulation (AR) 7113, which were developed to identify and clarify treatment of historical resources present on properties within the District's jurisdiction. The Board Policy and Administrative Regulation require completion of a Historic Resources Inventory (HRI) of a school campus prior to approval of either a master plan or design of a school facilities project at that campus. In 2022, the District commissioned an HRI of the McKinley ES campus. The purpose of the HRI is to review the existing buildings, structures, and features at the school; review previous evaluations of the school through historic survey, environmental review, or other official actions; identify and evaluate any potential historic resources within the school, including their character-defining features; and review the required consideration of historic resources within the school under CEQA. This campus HRI was prepared in conformance with BP and AR 7113 as they relate to McKinley ES.

As part of the HRI, the buildings and features of the McKinley ES campus were considered collectively for their potential eligibility for listing in the National Register of Historic Places, the California Register of Historic Resources (CRHR), and/or listing at the local level as a historic district. Based on visual observation of the campus; research of primary and secondary sources; and an analysis of the eligibility criteria for listing at the federal, state, and local levels, the HRI identified a potential historic district at McKinley ES that is eligible for listing in the CRHR and locally for designation as a City of Santa Monica historic district¹ (Historic Resources Group 2022). The following are identified as contributing elements of the historic district: Buildings B and C, two site features (Santa Monica Boulevard Quad and Main Courtyard), and two additional features ("Storybook Land" Sculpture and WPA Bronze Plaque) with a period of significance from 1923 to 1937 (see Table 4-5, Features in the Historic District, and Figure 3-6, Historic District Boundary). All other buildings and features on-site were determined ineligible for listing at the federal, state, and local levels (Historic Resources Group 2022). The historic district and the potential for the Proposed Project to result in impacts to historical resources is further discussed in Section 5.3, Cultural Resources, of this DEIR. The SMMUSD Board of Education (Board) reviewed the HRI during the February 17, 2022, Board meeting. The Board provided direction to proceed with the campus plan and to proceed with the design and environmental review of the first phase of the Proposed Project (SMMUSD 2023).

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As governed by Santa Monica Municipal Code Section 9.56.100, Landmarks and Historic Districts Ordinance.

Table 4-5 Features in the Historic District

Current Feature Name	Year Built	Integrity	Status	Building Style
Buildings				
Building B	1923	Fair	Contributor	Italian Renaissance Revival
Building C	1923	Fair	Contributor	Italian Renaissance Revival
Site Features				
Santa Monica Boulevard Quad	1923	Good	Contributor	N/A
Main Courtyard	1923	Good	Contributor	N/A
Additional Features				
"Storybook Land" Sculpture	1936	Very Good	Contributor N/A	
WPA Bronze Plaque	1937	Very Good	Contributor	N/A

Source: Historic Resources Group 2022.

4.3.5 General Plan and Zoning

4.3.5.1 CITY OF SANTA MONICA GENERAL PLAN

The Santa Monica General Plan land use designation for the McKinley ES campus is Institutional/Public Lands (see Figure 3-3a, *General Plan Land Use*). As stated in the City's General Plan Land Use and Circulation Element (LUCE), the Institutional/Public Lands designation is intended for any public or quasi-public facility, including schools, colleges, municipal offices, museums or performance spaces, corporation yards, utility stations, and similar uses. The Proposed Project's Site is not within the City of Santa Monica's Local Coastal Program's Land Use Plan (LUP). The Proposed Project involves the renovation and modernization of the existing McKinley ES campus and therefore will not require changes to the campus's land use designation.

4.3.5.2 CITY OF SANTA MONICA ZONING CODE

The planning and zoning regulations (Article 9 of the Santa Monica Municipal Code), in conformance with the General Plan, regulate land use development in Santa Monica. In each zoning designation, the regulations specify the permitted and prohibited uses and the development standards, including setbacks, height, parking, and design standards, among others. The Proposed Project's Site is in the Institutional/Public Land Zone, which permits public or semipublic facilities, including municipal offices, schools, libraries, museums or performance spaces, cemeteries, corporation yards, utility stations, and similar uses (see Figure 3-3b, *Zoning Designations*).

A detailed analysis of consistency with the City's General Plan and Santa Monica Municipal Code is provided in Chapter 5.9, *Land Use and Planning*.

4.3.6 Aesthetics

Scenic vistas and view corridors provide the public with panoramic views of features such as mountains, forests, the ocean, or urban skylines. The city's scenic resources include the Santa Monica State Beach, the Pacific Ocean, Santa Monica Canyon, the Santa Monica Mountains National Recreational Area, Marine Park, and the bluffs overlooking the beach (City of Santa Monica 2015). The LUCE also discusses scenic open space, such as the public landscape along Ocean Avenue and public art, as among the city's visual resources. The city's scenic vistas and view corridors include the hillside areas south of Ocean Park Boulevard, Palisades Park, Hotchkiss Park, and the east-west streets from the beach to Ocean Avenue. The City of Santa Monica has indicated that some of its scenic vistas can be considered scenic resources as well. The closest scenic vista from the campus are the hillside homes south of Ocean Park Boulevard, approximately 1.4 miles away.

The McKinley ES campus and the surrounding areas are developed with urban land uses and development. There is no significant topography on the campus nor in the surrounding areas, as the area is generally flat. The campus contains an existing developed elementary school campus that includes playgrounds, on-site parking, and two 2-story buildings on the central and southwestern portions of the campus. The campus is surrounded by residential uses with one to two stories, commercial uses with up to three stories, and Providence Saint John's Health Center, which is several stories high and approximately 210 feet to the west.

The elementary school campus currently emits light from building interiors, building and security lights, and parking lot lights. There are trees in the landscaped quad along Santa Monica Boulevard as well as in the main courtyard surrounded by Buildings B and C.

As discussed in Section 4.3.3, *Campus History*, in 2022, the District commissioned an HRI of the campus, which identified a historic district at the campus with a period of significance between 1923 to 1937 for listing in the CRHR and for a designation as a City of Santa Monica historic district (HRG 2022).

Please refer to Section 5.1, *Aesthetics*, for additional information concerning regulations governing scenic quality, light and glare, and an analysis of the project-related impacts.

4.3.7 Air Quality and Climate

The City of Santa Monica is within the SoCAB, which is governed by South Coast AQMD. Air basins are classified as attainment/nonattainment areas for particular pollutants depending on whether they meet AAQS for that pollutant. The SoCAB is designated nonattainment for ozone (O₃) and fine particulate matter (PM_{2.5}) under the California and National AAQS, nonattainment for particulate matter (PM₁₀) under the California AAQS, and nonattainment for lead under the National AAQS (US EPA 2022). An air quality analysis was performed for the project, and the results are discussed in Section 5.2, *Air Quality*. Additionally, project-related impacts from GHG emissions are discussed in Section 5.6, *Greenhouse Gas Emissions*.

The average annual temperature varies little throughout the SoCAB. With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The climatological station nearest to the campus that best represents the climatological conditions in the Proposed Project's area is the Santa Monica Pier, California Monitoring Station (047953). The average low is

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reported at 49.2 degrees Fahrenheit (°F) in January, and the average high is 72.1°F in August (WRCC 2023). However, rainfall is highly variable, with almost all rainfall from November through March. Rainfall averages 12.62 inches per year in the vicinity of the campus (WRCC 2023). Periods of heavy fog are frequent, given the location along the coast. Low clouds, often referred to as high fog, are a characteristic climatic feature. Annual average humidity is 70 percent at the coast and 57 percent in the eastern portions of the SoCAB (South Coast AQMD 1993). On-site sensitive receptors include the McKinley Elementary School students. The nearest off-site sensitive receptors are the single- and multifamily residences to the northwest, northeast, and southwest of the Proposed Project's Site, along Arizona Avenue, Chelsea Avenue, and along 23rd Court. The closest of these receptors would be the residents along 23rd Court, who are approximately 20 feet from the campus.

Please refer to Section 5.2, Air Quality, for additional information concerning potential air quality impacts of the Proposed Project.

4.3.8 Cultural and Paleontological Resources

The campus is developed with buildings, landscaping, hardscaping, and surface parking in a highly urbanized area of the city, and the campus has already been subjected to ground-disturbing activities associated with existing development. As discussed Section 4.3.3, *Campus History*, the HRI identified a potential historic district at McKinley ES that is eligible for listing in the CRHR and for designation as a City of Santa Monica historic district under Chapter 9.56.100, Landmarks and Historic Districts Ordinance, of the municipal code (HRG 2022).

A cultural records search of the California Historical Resources Information System, Southern Central Coastal Information Center, indicated that no previous cultural resource investigations have been conducted for the Proposed Project's Site. The cultural resources records search indicated that 14 cultural resources studies have been completed within a half-mile radius of the campus. The records search also indicated that five previously recorded cultural resources were recorded within a half-mile radius of the campus. Of these resources, two were recorded within the Proposed Project's Site, consisting of historic built environments. The three cultural resources recorded within a half-mile of the Proposed Project's Site consist of historic archaeological sites and a historic built environment. A search of the Sacred Lands File by the Native American Heritage Commission indicated that sacred lands or resources are known within the same United States Geological Survey (USGS) Beverly Hills quadrangle map (1:24,000), township, range, and section as the campus (Section 32 of Township 1 South, Range 15 West, and Section 5 of Township 2 South, Range 15 West).

Please refer to Section 5.3, *Cultural Resources*, for additional information concerning potential cultural impacts of the Proposed Project.

4.3.9 Geology and Landform

The campus is situated in the southwestern block of the Los Angeles Basin. The Basin, a structural trough, is a northwest-trending, alluviated lowland plain approximately 50 miles long and 20 miles wide. Mountains and hills that generally expose Late Cretaceous to Late Pleistocene-age sedimentary and igneous rocks bound the Basin along the north, northeast, east, and southeast. The Basin is at the northerly terminus of the Peninsular Ranges. The campus is underlain by Quaternary old alluvial fan deposits and infilled with Holocene-age alluvial

deposits. Artificial fill materials were encountered underlying existing pavements on the campus to a depth of approximately four feet below ground surface (bgs). Fill, as encountered, is characterized as medium reddish brown sandy lean clay and clay. Pleistocene alluvial fan deposits were encountered directly beneath the artificial fill materials and generally consist of reddish brown to dark reddish brown, stiff to hard, silty to sandy lean clay with gravel, with interbeds of medium dense to dense silty sand and varying amounts of Jurassic-age slaty gravels (Leighton 2021).

The campus is underlain by middle to late Pleistocene older alluvium and late Pleistocene to Holocene young alluvium. No fossil localities were found within the Proposed Project's Site. Fossil localities were previously recovered within a ten-mile radius from sediments like those found at the Proposed Project's Site. All fossils were a minimum of 6 to 11 feet deep in deposits mapped as Pleistocene at the surface. Sediments with a Holocene component produced fossils starting at 24 feet deep (Cogstone 2022). See Section 5.5, *Geology and Soils*, for additional information concerning potential geological and paleontological impacts of the Proposed Project.

4.3.10 Hydrology

The city is part of the Santa Monica Groundwater Basin (SMGB) which spans 50.2 square miles. The SMGB is bounded by the Santa Monica Mountains to the north, the Ballona Escarpment to the south, the Newport-Inglewood fault to the east, and the Pacific Ocean to the west (Santa Monica 2021a). Due to the extensive faulting, there are five subbasins in the SMGB—Arcadia Subbasin, Charnock Subbasin, South Santa Monica or Coastal Subbasin, Crestal Subbasin, and Olympic Subbasin (City of Santa Monica 2018). The campus is within the Olympic Subbasin.

The Proposed Project's Site is currently developed with hardscape and impervious surfaces; the pervious areas include landscaping and play fields. Groundwater was not encountered to the maximum depth explored of 51.5 feet bgs. Historical groundwater levels, as interpreted from the USGS Beverly Hills 7.5 Minute Quadrangle, indicate historic high groundwater at approximately 40 feet bgs. Nearby monitoring wells located approximately 600 feet southwest of the campus documented groundwater levels ranging from 110 to 132 feet bgs (Leighton 2021).

The topography in the Proposed Project's area is relatively flat with gentle slopes to the south. Elevation ranges from 155 feet to 170 feet above mean sea level (Leighton 2021). Currently, runoff is collected via swales and storm drain inlets and conveyed by an internal storm drain system that connects to the City's existing storm drains beneath Chelsea Avenue and Santa Monica Boulevard.

The campus is not located a 100-year or 500-year flood zone, as defined by the Federal Emergency Management Agency (FEMA 2021).

Additional project impacts on hydrology and water quality are discussed in Section 5.8, *Hydrology and Water Quality*.

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4.3.11 Noise

The Proposed Project's Site is in a predominantly urbanized mixed-use residential area in Santa Monica, directly adjacent to Santa Monica Boulevard. Noise within the Proposed Project's Site is associated with the existing school uses, including outdoor student activity, circulation-related noise (during drop off/pick up times), and property maintenance. Noise around the Proposed Project's Site is predominantly characterized by traffic noise along Santa Monica Boulevard and other local roadways. Noise generated by surrounding residential and urbanized uses, including health care facilities (Providence St. John's Health Center) and associated intermittent ambulance noise, also contribute to the overall noise environment in the Proposed Project's vicinity. Additional project-related impacts from noise sources are discussed in Section 5.10, *Noise*.

4.3.12 Recreation

Park services are provided by the City of Santa Monica's Parks and Recreation Department. Nearby parks to the campus include Schader Park, Park Drive Park, Douglas Park, Colorado Center Park, Memorial Park, and Virginia Avenue Park, which are approximately 0.08, 0.09, 0.15, 0.18, 0.63, and 0.80 mile away, respectively. Schader Park and Park Drive Park are small neighborhood parks that include outdoor amenities such as benches. Douglas Park, Colorado Center Park, Memorial Park, and Virginia Avenue Park are larger parks with a larger variety of outdoor amenities, including benches, picnic tables, barbecues, exercise equipment, playgrounds, sports courts and fields, dog parks, splash pads, walking paths, and restrooms. The Santa Monica Mountains National Recreation Area, which encompasses a multitude of parks and state parks, is approximately 2.2 miles northwest of the campus. Finally, Santa Monica Beach is approximately 1.75 miles southwest of the campus.

As described above in Section 4.3.2, Existing Conditions, the existing athletic facilities on the campus are available for community use through the Civic Center Act and joint use agreement between the District and the City. Athletic facilities on other SMMUSD properties are also available for community use. Currently, the Santa Monica American Youth Soccer Organization (AYSO), Region 20, uses various SMMUSD properties for practice and games, including the McKinley ES campus.

Additional project impacts related to recreational resources are discussed in Section 5.11, Recreation.

4.3.13 Transportation

Regional vehicle access to the campus is provided via the I-10 and PCH. Primary local access to the campus is from Santa Monica Boulevard, Chelsea Avenue, Arizona Avenue, and 23rd Court (IBI Group 2022). Current drop-off/pick-up (DOPU) operations for the campus occur primarily at three locations.

- Campus parking lot. The campus parking lot contains a DOPU counterclockwise drive-through lane system. The parking lot provides access to the parking lot gate and courtyard gates for grades one through five, office/breakfast entrance, and TK/kindergarten gate for TK and kindergarten students.
- Chelsea Avenue. Chelsea Avenue runs along the eastern side of the campus. DOPU operations occur
 along this street via neighborhood on-street parking and provide access to the parking lot gate and

courtyard gates for grades one through five, the office/breakfast entrance, and the TK/K gate for TK and kindergarten students.

Arizona Avenue. Arizona Avenue borders the northern campus boundary. DOPU operations occur along
this street via neighborhood on-street parking and provides access to the Arizona gate for grades one
through five.

Additional project impacts related to transportation are discussed in Section 5.12, Transportation.

4.4 ASSUMPTIONS REGARDING CUMULATIVE IMPACTS

Section 15130 of the CEQA Guidelines states that cumulative impacts shall be discussed where they are significant. It further states that this discussion shall reflect the level and severity of the impact and the likelihood of occurrence, but not in as great a level of detail as that necessary for the project alone. Section 15355 of the CEQA Guidelines defines cumulative impacts as "...two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts." Cumulative impacts represent the change caused by the incremental impact of a project when added to other proposed or committed projects in the vicinity.

The CEQA Guidelines (§ 15130 [b][1]) state that the information used in an analysis of cumulative impacts should come from one of two sources:

- A. A list of past, present, and probable future projects producing related cumulative impacts, including, if necessary, those projects outside the control of the agency.
- B. A summary of projections contained in an adopted General Plan or related planning document designed to evaluate regional or area-wide conditions.

The cumulative impact analysis in this DEIR uses Method A. A summary of cumulative projects considered in the impact analysis is included in Table 4-6, *Cumulative Projects* (see also Figure 4-1, *Cumulative Projects*). The District performed an assessment of six schools to determine campus updates required to align with the District's Educational Specifications. The result of this assessment was the development of drafts for six long-range campus plans for six different campuses, including McKinley ES. One of the six projects is within one-half mile of McKinley ES (see Table 4-7, *SMMUSD Projects in the City of Santa Monica*).

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Table 4-6 Cumulative Projects

Project	Location	Project Components	Distance from McKinley ES (mi)
1328 22nd St / Saint John's Health Center Development Agreement Amendment	1328 22nd Street, Santa Monica CA	Implementation of revised parking program with 1,528 owned and leased parking spaces on- and off-site Construction of modified entry plaza Implementation of parking management plan, transportation demand management plan, and neighborhood protection measures	0.04
2121 Santa Monica Blvd / Providence Saint John's Health Center Phase Two Project Master Plan / PSJHC Phase Two on North and South Campuses	2121 Santa Monica Boulevard, Santa Monica, CA	669,150 sq ft above-grade floor area Maximum height of 105 feet Wellness/healthcare/research facilities Subterranean parking Open space areas Visitor housing Minimum of 10 replacement multifamily housing units New facilities for Providence's existing Santa Monica Cancer Institute and Child and Family Development Center May be built over a period of 17 years	0.04
2300 Wilshire Blvd Mixed Use	2300 Wilshire Blvd, Santa Monica CA	 Three-story mixed-use building 30 residential units 22,300 sq ft retail area 2,700 sq ft restaurant 227 subterranean parking spaces 	0.10
2225 Broadway	2225 Broadway, Santa Monica CA	15,463 sq ft three-story mixed-use building 15 rental units 2,751 sq ft commercial space	0.12
2500 Broadway / Yahoo (Colorado) Center Development Agreement Amendment	2500 Broadway, Santa Monica CA	Revised base parking ratio to one parking space per 500 sq ft of office floor area Lease up to 1,053 existing parking spaces Implementation of transportation demand management measures	0.15
2624 Arizona Ave	2624 Arizona Avenue, Santa Monica CA	Fence and wall height modification	0.18
1242 20th Street Wellness Center DR	1242 20th Street, Santa Monica CA	 7,965 sq ft adaptive reuse of existing funeral home and chapel building 59,548 sq ft new wellness center 218 parking spaces 	0.26
1681 26th St AA / Pen Factory	1681 26th Street, Santa Monica CA	 7,499 sq ft addition to existing building Adaptive reuse of existing, vacant building One-story subterranean parking structure 	0.27
2800 Wilshire Blvd Fresh and Easy Market	2800 Wilshire Boulevard, Santa Monica CA	12,947 sq ft Fresh and Easy Market38 parking spaces	0.30
2901 Santa Monica Blvd AA	2901 Santa Monica Boulevard, Santa Monica CA	26,683 sq ft building 60 residential units 5,100 sq ft commercial space	0.36

Table 4-6 Cumulative Projects

Project	Location	Project Components	Distance from McKinley ES (mi)
Memorial Park Neighborhood Plan	Memorial Park, Colorado Ave from Lincoln to 20th St, 17th St from Wilshire Blvd to Pico Blvd, Santa Monica CA	Multimodal access to the light rail station Shared parking on key sites Neighborhood integration of future improved Memorial Park open space	0.37 mi away at Colorado Ave and 20th St
Pico Wellbeing Project	Pico neighborhood, Santa Monica CA	Neighborhood plan	0.42
2834 Colorado Ave / Colorado Creative Studios Development Agreement	2834 Colorado Avenue, Santa Monica CA	 191,982 sq ft four-story creative art/entertainment building 9,000 sq ft of neighborhood serving uses Three levels subterranean parking with 640 spaces 	0.43
3008 Santa Monica Boulevard / Mixed Use Project	3008 Santa Monica Boulevard, Santa Monica CA	 24,825 sq ft three-story mixed-use building 26 residential units 64 parking spaces 53 bike spaces 	0.44
Safe Streets for 17th St and Michigan Ave Project/Plan	17th St from Pico Blvd to Wilshire Blvd, Michigan Ave from 14th St to 19th St	 Pedestrian improvements and lighting Protected bike lanes Curb extensions/ accessible ramps 	0.46 mi away at 17th St and Santa Monica Blvd

Table 4-7 SMMUSD Projects within the City of Santa Monica

Project	Location	Project Components	Distance from McKinley ES (mi)
Franklin Elementary School Campus Plan	2400 Montana Avenue	24,685 sq ft increased classrooms and storage Remove and demolish eight buildings and nine portables, construct three new buildings, and renovate two buildings and outdoor areas	0.50
Grant Elementary School Master Plan Project	2368 Pearl Street	Removal of 10 modular classrooms, playground restrooms, shade structures Demolitions of a portion of one permanent building Renovation of existing library and kindergarten classroom building Construction of two new buildings New hardscape Reconfigured playgrounds and field	1.15
Roosevelt Elementary School Campus Master Plan	801 Montana Avenue	Comprehensive modernization	1.25
John Adams Middle School Campus Improvement Project	2425 16th Street	 Demolition of one existing building Renovation of six existing buildings Upgrades to the existing library and courtyard Construction of new building New hardscape 	1.25

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Table 4-7 SMMUSD Projects within the City of Santa Monica

Project	Location	Project Components	Distance from McKinley ES (mi)
fill Rogers Learning ommunity Campus xpansion and approvement Project • Addition of the property located at 1515 Maple Street • Removal/demolition of 16 portable and permanent buildings • Construction of three new buildings • Renovation of eight existing buildings and outdoor spaces • Reconfiguration of outdoor and parking/transportation areas over an approximate span of 10 to 15 years		1.30	
Santa Monica High School Master Plan (Phase 3 Exploration Building and Gold Gym Update)	601 Pico Boulevard	Phase 3A	1.40

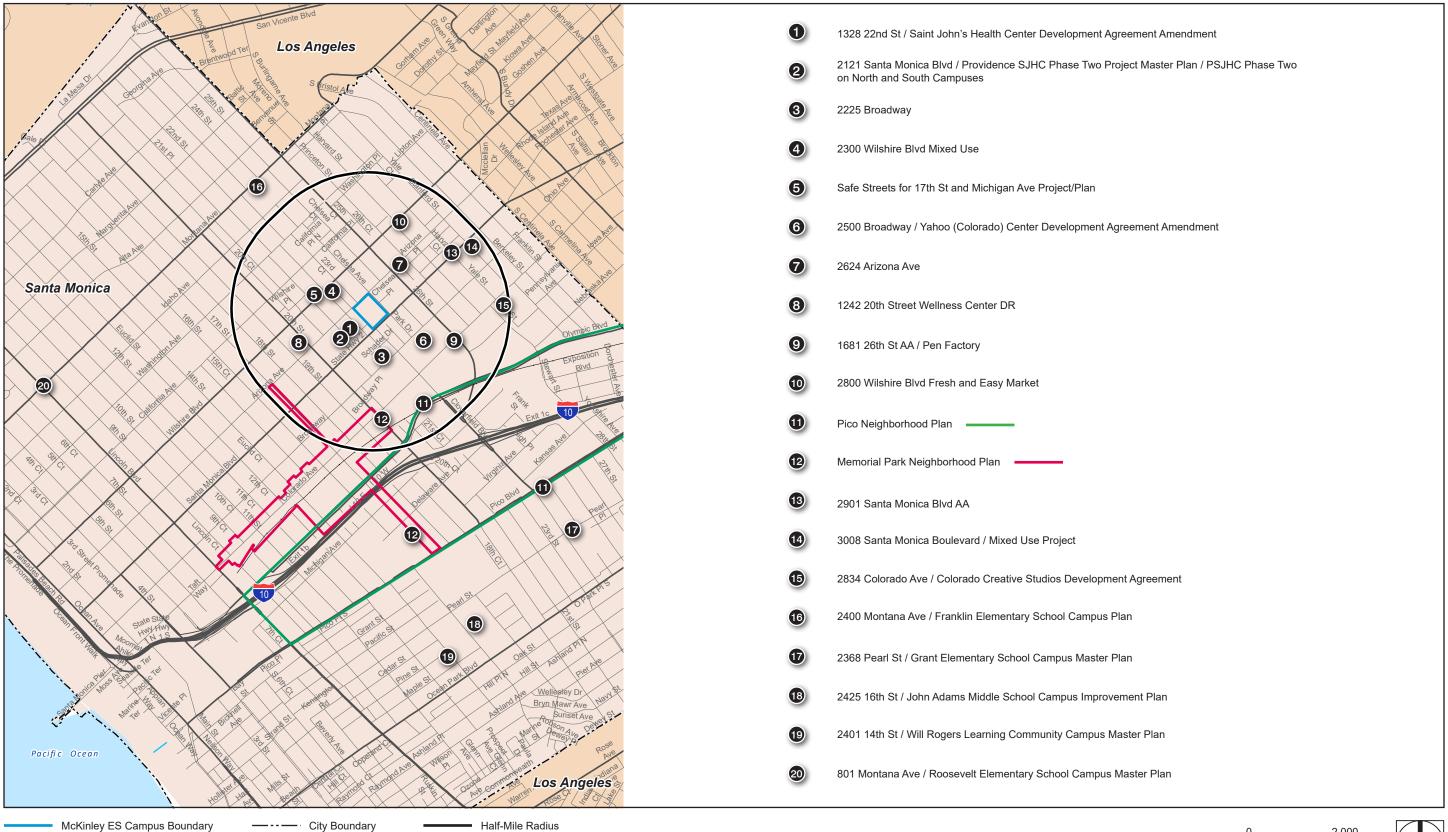
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Figure 4-1 - Cumulative Projects



Scale (Feet)



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Each section of this chapter describes the physical and regulatory environmental setting of the Proposed Project's Site and surrounding vicinity, identifies thresholds of significance from which environmental impacts are determined, and identifies potentially significant environmental impacts resulting from implementation of the Proposed Project. Where significant impacts are recognized, mitigation measures to reduce or avoid impacts are identified. This chapter has a separate section for each environmental issue area that was determined to need further study in the Draft Environmental Impact Report (DEIR). This scope was determined in the initial study/notice of preparation (IS/NOP), which were published January 13, 2023 (see Appendix B), and through public, organization, and agency comments received during the NOP comment period from January 13, 2023, to February 12, 2023 (see Appendix C). Environmental issues and their corresponding sections are:

- 5.1 Aesthetics
- 5.2 Air Quality
- 5.3 Cultural Resources
- 5.4 Energy
- 5.5 Geology and Soils
- 5.6 Greenhouse Gas Emissions
- 5.7 Hazards and Hazardous Materials
- 5.8 Hydrology and Water Quality
- 5.9 Land Use and Planning
- 5.10 Noise
- 5.11 Recreation
- 5.12 Transportation

Organization of Environmental Analysis

To assist the reader with comparing information between environmental issues, each section is organized under the following major headings:

- Environmental Setting
 - Regulatory Setting
 - Existing Conditions
- Thresholds of Significance
- Environmental Impacts
 - Methodology
 - Impact Analysis

- Mitigation Measures
- Level of Significance After Mitigation
- Cumulative Impacts
- References

In addition, Chapter 1, Executive Summary, has a table that summarizes all impacts by environmental issue.

Terminology Used in This Draft EIR

The level of significance is identified for each impact in this DEIR. Although the criteria for determining significance are different for each topic area, the environmental analysis applies a uniform classification of the impacts based on definitions consistent with CEQA and the CEQA Guidelines:

- No impact. The resource is not present, or the Proposed Project would not result in any change in the environment.
- Less than significant impact. The Proposed Project would not cause any substantial, adverse change in the environment.
- **Potentially significant impact.** The Proposed Project would result in direct or indirect adverse change in the environment that exceeds established thresholds, which requires:
 - **Mitigation measures.** Feasible measures applied to the Proposed Project and intended to minimize identified significant adverse environmental impacts.
- Significant and unavoidable. The Proposed Project would cause a substantial adverse effect on the environment, after implementation of all feasible mitigation measures to reduce the impact to a less than significant level.

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5.1 **AESTHETICS**

This section of the Draft Environmental Impact Report (DEIR) evaluates the McKinley Elementary School Campus Master Plan Project's (Proposed Project) potential impacts on aesthetic and visual resources related to visual character, visual quality, and new sources of light and glare.

The analysis in this section is based in part on the existing conditions of the current McKinley Elementary School campus and architectural renderings prepared for the Proposed Project.

A California Environmental Quality Act (CEQA) scoping meeting was conducted on January 31, 2023, where verbal comments were received in response to the Initial Study/Notice of Preparation (IS/NOP) regarding the potential visual impacts that would result from the Proposed Project. In addition, written comments were received regarding the potential impacts to community character in areas surrounding the McKinley Elementary School (McKinley ES) campus. These comments are considered in this section. The IS/NOP and all scoping comment letters are included as Appendices B and C of this document.

5.1.1 Environmental Setting

5.1.1.1 REGULATORY BACKGROUND

State and local laws, regulations, plans, or guidelines related to aesthetics that are applicable to the Proposed Project are summarized in this section.

State

California Building Code: Building Energy Efficiency Standards

Energy conservation standards for new residential and nonresidential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the California Energy Commission) in June 1977 and most recently revised in 2018 (Title 24, Part 6, of the California Code of Regulations). The newly revised standards took effect on January 1, 2020. Title 24 requires the design of building shells and building components to conserve energy. It also requires outdoor lighting controls to reduce energy usage; in effect, this reduces outdoor lighting.

Local

City of Santa Monica Municipal Code

The City of Santa Monica Municipal Code (SMMC) establishes land use regulations and standards for development in the City, including specific design guidelines, height limits, building density, building design and landscaping standards, architectural features, and open space and setback requirements.

Section 4.12.110. Restrictions on demolition, excavation, grading, spray painting, construction, maintenance or repair of buildings.

a. No person shall engage in any construction activity during the following times anywhere in the City:

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5. Environmental Analysis **AESTHETICS**

- 1. Before eight a.m. or after six p.m. on Monday through Friday, except that construction activities conducted by employees of the City of Santa Monica or public utilities while conducting duties associated with their employment shall not occur before seven a.m. or after six p.m. on Monday through Friday;
- 2. Before nine a.m. or after five p.m. on Saturday;
- 3. All day on Sunday;
- 4. All day on New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, as those days have been established by the United States of America.
- b. Except as set forth in subsection (d) of this Section, the noise created by construction activity shall not cause:
 - 1. The equivalent noise level to exceed the noise standards specified in Section 4.12.060 of this Chapter, for the noise zone where the measurement is taken, plus twenty dBA; or
 - A maximum instantaneous A-weighted, slow sound pressure level to exceed the decibel limits specified
 in Section 4.12.060 of this Chapter for the noise zone where the measurement is taken plus forty dBA,
 for any period of time.
- c. Prior to the issuance of a building permit, all development projects located within five hundred feet of any residential development or other noise sensitive land uses must submit a list of equipment and activities required during construction. In particular, this list shall include the following:
 - 1. Construction equipment to be used, such as pile drivers, jackhammers, pavement breakers or similar equipment;
 - 2. Construction activities such as twenty-four hour pumping, excavation or demolition;
 - 3. A list of measures that will be implemented to minimize noise impacts on nearby residential uses;
- d. Any construction that exceeds the noise levels established in subsection (b) of this Section shall occur between the hours of ten a.m. and three p.m., Monday through Friday.
- e. A permit may be issued authorizing construction activity during the times prohibited by this Section whenever it is found to be in the public interest. The person obtaining the permit shall provide notification to persons occupying property within a perimeter of five hundred feet of the site of the proposed construction activity prior to commencing work pursuant to the permit. The form of the notification shall be approved by the City and contain procedures for the submission of comments prior to the approval of the permit. Applications for such permit shall be in writing, shall be accompanied by an application fee and shall set forth in detail facts showing that the public interest will be served by the issuance of such permit. Applications shall be made to the Building Officer. No permit shall be issued unless the application is first

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approved by the Director of Environmental and Public Works Management, the Building Officer, the Chief of Police and the Director of Planning and Community Development. The City Council shall establish by resolution fees for the filing and processing of the application required by this subsection (e) and any required compliance monitoring. This fee may be revised from time to time by resolution of the City Council.

Chapter 9.15 Public and Semi-Public Districts

PL Institutional/Public Lands. This Zoning District is for public or semi-public facilities, including municipal offices, schools, libraries, museums, or performance spaces, cemeteries, corporation yards, utility stations, and similar uses. This District is consistent with the LUCE's Institutional/Public Lands land use designation. Table 9.15.030, *Development Standards – Public and Park Districts*, stipulates the development standards for the Public and Semi-Public Districts.

Table 9.15.030 Development Standards – Public and Park Districts

Standard	PL (Institution/Public Lands)
Parcel Intensity Standards	·
Minimum Parcel Size	20,000 square feet
Building Form and Location	
Maximum Building Stories	2
Maximum Building Height	32 feet
Minimum Setbacks (feet, measures from property line)	
Street Frontage	10 feet
Interior Side and Rear	10 feet; 15 feet when abutting a residential district
Maximum Parcel Coverage (% of a parcel)	N/A

Section 9.21.080, Lighting

Section 9.21.080(A): Applicability

a. New Lighting. All new exterior lighting, including lighting fixtures attached to buildings, structures, poles, or self-supporting structures. Exterior lighting may be found on parking lots, walkways, building entrances, outdoor sales areas, landscaping, recreational fields, and building faces.

Section 9.21.080(C): General Standards

- b. **Nonresidential Buildings.** All exterior doors, during the hours of darkness, shall be illuminated with a minimum of one foot-light candle of light.
- c. **Shielding.** All lighting fixtures shall be shielded so as not to produce obtrusive glare onto the public right-of-way or adjacent properties. All luminaries shall meet the most recently adopted criteria of the

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5. Environmental Analysis AESTHETICS

Illuminating Engineering Society of North America (IESNA) for "Cut Off" or "Full Cut Off" luminaries.

- d. Light Trespass. Lighting may not illuminate other properties in excess of a measurement of 0.5 foot candles of light.
- e. **Maximum Height.** The maximum height for exterior lighting shall be as follows:
 - a. Residential, Ocean Park Oceanfront Districts: 16 feet.
 - b. Nonresidential Districts: 26 feet.

Section 9.21.080(F): Parking Lot and Structure Lighting

- 1. Public parking areas designed to accommodate 10 or more vehicles shall be provided with a minimum of 0.5 foot-candle and a maximum of 3.0 foot candles of light over of the parking surface from 0.5-hour before dusk until 0.5-hour after dawn.
- 2. Lighting design shall be coordinated with the landscape plan to ensure that vegetation growth will not substantially impair the intended illumination.
- 3. All lighting used to illuminate a parking area for any number of automobiles in any District shall be arranged so that all direct rays from such lighting fall entirely within such parking lot and be consistent with this Section.

Section 9.21.120, Reflective Materials

No more than 25 percent of the surface area of any façade on any new building contain black or mirrored glass or other mirror-like material that is highly reflective, and that materials for roofing be of a non-reflective nature.

City of Santa Monica General Plan

Land Use and Circulation Element

The City of Santa Monica Land Use and Circulation Element (LUCE) was adopted July 6, 2010, and revised July 24, 2015. The LUCE establishes the City's land use, urban design, and transportation vision. The following goals and policies related to scenic quality and aesthetics are applicable to the entire city and relevant to the Proposed Project (City of Santa Monica 2015).

General: Citywide Scenic Quality/Design Goals and Policies

 Policy LU1.4. Retention of Existing Structures. Encourage and incentivize preservation of historic structures and older buildings that add to the character of residential districts through the development of programs such as Transfer of Development Rights (TDR) and conservation easements.

Goal LU12: Encourage Historic Preservation Citywide – Preserve buildings and features which characterize and represent the City's rich heritage.

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- Policy LU12.2. Preservation Programs. Preserve and protect historic resources through the development of preservation programs and economic incentives such as Transfer of Development Rights and conservation easements as well as neighborhood conservation approaches.
- Policy LU12.3. Rehabilitation of Historic Resources. Promote adaptive reuse of historic structures
 and sensitive alterations where changes are proposed. New construction or additions to historic structures
 shall be respectful of the existing historic resource.

Goal LU13: Preserve Community Identity Preserve and enhance the City's unique character and identity, and support the diversity of neighborhoods, boulevards, and districts within the City.

- Policy LU13.1. Maintain Character. Reinforce the City's distinctive natural, social, and environmental
 characteristics including its beachfront and connections to the water, civic and cultural institutions, terrain
 and climate, and the geographic fabric of neighborhoods and boulevards.
- Policy LU13.3. Districts and Boulevards. Support the City's diverse districts and boulevards and develop
 urban design principles, guidelines and standards tailored to each area that respect, reinforce and enhance
 the defining form and character of that area.

Goal LU15: Enhance Santa Monica's Urban Form. Encourage well-developed design that is compatible with the neighborhoods, responds to the surrounding context, and creates a comfortable pedestrian environment.

- Policy LU15.8. Building Articulation. Building façades should be well designed with appropriate articulation in the form of setbacks, offsets, projections and a mix of architectural materials and elements to establish an aesthetically pleasing pattern. Large areas of glass above the ground floor require special design consideration. Highly reflective materials are to be avoided, and dark or reflective glass is prohibited.
- Policy LU15.10. Roofline Variation. Buildings should be designed with a variety of heights and shapes to create visual interest while maintaining a generally consistent overall street front. To achieve this goal, development standards should provide flexibility to encourage buildings with interesting silhouettes and skylines, and the primary building façade shall not be lower than the designated minimum street façade height.

Neighborhoods: Citywide Goals and Policies

Goal N1: Protect, preserve and enhance the residential neighborhoods.

■ Policy N1.7. Make new development projects of compatible scale and character with the existing neighborhoods, providing respectful transitions to existing homes, including ground level open spaces and appropriate building setbacks and upper-floor step backs along neighborhood streets.

Goal N4: Ensure compatible design to preserve and enhance neighborhoods.

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5. Environmental Analysis **AESTHETICS**

- Policy N4.1. Design new development to be compatible with the existing scale, mass and character of the
 residential neighborhood. New buildings should transition in size, height and scale toward adjacent
 residential structures.
- Policy N4.4. Design new development or redeveloped structures in such a manner as to minimize impacts on or disruptions to neighbors.
- Policy N4.5. Ensure that new development or redevelopment of existing properties respects the neighborhood history and culture.
- Policy N4.6. Incorporate sustainable building practices, and encourage redevelopment to consider adaptive reuse as an alternative to demolition.

Mid-City Neighborhood

McKinley ES is in the Mid-City neighborhood of Santa Monica. The following goals and policies related to scenic quality and aesthetics are specific to the Mid-City neighborhood and applicable to the Proposed Project (City of Santa Monica 2015).

Goal N23: Protect, preserve and enhance the Mid-City residential neighborhood and ensure compatible design.

Historic Preservation

The following goals and policies related to scenic quality and aesthetics, are specific to historical resources within the City of Santa Monica and applicable to the Proposed Project (City of Santa Monica 2015).

Goal HP1: Preserve and protect historic resources in Santa Monica through the land use decision-making process.

- Policy HP1.3. Ensure that new development, alterations or remodeling on, or adjacent to, historic properties are sensitive to historic resources and are compatible with the surrounding historic context.
- **Policy HP1.7.** Develop tools to address the conservation of unique and valued character-defining features in residential neighborhoods to preserve and enhance the existing architecture, scale, landscape and context.

5.1.1.2 EXISTING CONDITIONS

Mid-City Neighborhood

The Proposed Project's Site is in Mid-City, which is geographically in the center of Santa Monica, generally bounded by Washington Avenue to the north, Centinela Avenue to the east, Colorado Avenue and Santa Monica Boulevard to the south, and 5th Street to the west. The area to the east of the Mid-City neighborhood connects central Santa Monica to the West Los Angeles area, and the area to the west is a dense urban area characterized by its wide variety of architectural styles.

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Visual Character

City of Santa Monica

The City of Santa Monica offers unique natural and man-made visual resources that are visible to those walking, cycling, or driving through the city. These resources include places such as the beachfront, historic areas, tree-lined neighborhoods, and commercial districts such as the Third Street Promenade. The major natural resources unique to the city are the Santa Monica Bay, including the beachfront and coastal area as well as the natural Palisades bluffs that overlook the coastline. The city contains various historic buildings and designs, representing a range of time periods, architectural styles, and urban character (Santa Monica 2010).

Neighborhood Character

The Mid-City neighborhood is composed of two subareas—Mid-City East, which is generally bounded by Wilshire Boulevard to the north, Centinela Avenue to the east, Colorado Boulevard to the south, and 25th Street to the west (including two small residential blocks of Berkeley and Franklin Streets), and Central City, which occupies land in the core of Santa Monica, including the Proposed Project's Site. The residential component of the Mid-City neighborhood is primarily made up of multifamily residential properties as well as several single-family homes representing a range of architectural styles.

The Mid-City neighborhood is intersected by three major boulevards (Broadway, Santa Monica Boulevard, and Wilshire Boulevard). A significant feature of Mid-City is Santa Monica's medical industry, including the Santa Monica-UCLA Medical Center and Providence Saint John's Health Center to the west of the Proposed Project's Site across 23rd Court. The McKinley ES campus is a dominant visible feature of the Mid-City neighborhood.

McKinley Elementary School Campus

The campus was built in 1922 at its current location. It fronts Santa Monica Boulevard and is a visually prominent feature of the area, conveying a unique and dominant visual appearance. The campus includes four buildings, identified as Buildings A through D; 11 portable classrooms and 2 modular classrooms; a recreational portable, fields, and playgrounds; a student garden; and a parking lot along Chelsea Avenue (see Figure 3-4, Existing Site Plan). As shown in Table 5.1-1, Characteristics of Existing Buildings, the permanent buildings on the campus were constructed between 1923 and 1973 in Italian Renaissance Revival and Mid-Century Modern styles of architecture (see Section 5.3, Cultural Resources, for more information about these architectural styles). All of these campus elements are visible to varying degrees from surrounding residents and passing vehicles and pedestrians.

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Table 5.1-1 Characteristics of Existing Buildings

Building Name	Year Built	Current Use	Building Type	Building Height	Architectural Style
Α	1951	Multipurpose Cafeteria	Permanent	23 ft-8 in	Mid-Century Modern
В	1923	Classrooms	Permanent	41 ft-4 in	Italian Renaissance Revival
С	1923	Administration/Classrooms/Multipurpose Auditorium	Permanent	38 ft-6 in	Italian Renaissance Revival
D	1973	Preschool Classrooms	Modular	11 ft-9 in	Mid-Century Modern
B1-B3	Unknown	Classrooms	Portable	12 ft	N/A
B4-B9	Unknown	Classrooms	Portable	12 ft	N/A
B10-B11	Unknown	Classrooms	Portable	12 ft	N/A
Source: Historia	c Resources Grou	n 2022			

The following sections include an architectural description of each building and their visual prominence (see Figures 3-4 and 3-5, *Photographs of the Existing Campus*).

Building A (Cafeteria)

Building A was constructed in 1951 and is visible from 23rd Court in the southwestern part of the campus. It is a one-story, 4,439-square-foot permanent building, with a height of 23 feet 8 inches, which is generally rectangular and contains the school's cafeteria. It is covered in smooth stucco and capped by a flat roof. The building is composed of two volumes; the southern volume is slightly larger than the northern. Entrances display single and double metal slab doors, and concrete ramps provide access to the building. Solar panels are on the roof of the building. Building A is connected to Building C via the building's arcade, which extends from the eastern corner to create the West Courtyard.

Building B (Classrooms)

Building B was constructed in 1923 in the central portion of the campus immediately north of Building C. It is visible from Arizona Avenue. The two-story, 13,425-square-foot permanent building contains classrooms, with a height of 41 feet 4 inches. Building B has a generally rectangular footprint and is covered in smooth stucco and capped by a gable roof clad in red clay tiles. Entrances display metal slab doors with rectangular lights. Two concrete ramps provide entrance to the first story's south elevation. An elevator and connected arcade at the northwest corner of the building provide access to the second story. A metal staircase allows emergency exit from the second story along the north elevation. Additional features include metal wall vents and wall-mounted lights.

Building C (Administration/Classrooms/Multipurpose Auditorium)

Building C was constructed in 1923 and is in the southern part of the campus immediately south of Building B. It is the primary building visible from Santa Monica Boulevard. Building C consists of a central, two-story,

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27,390-square-foot permanent building, with a height of 38 feet 6 inches, flanked on each end by single-story wings. Building C has an irregular footprint composed of a central, 2-story building flanked on both ends by single-story wings. The central volume and four wings all have gable roofs clad in red clay tiles with evenly placed gable-roofed vented dormers. The building has a smooth stucco exterior. Although most windows are rectangular, many are set in the original arched openings. Entrances display single and double metal slab doors with rectangular lights.

The primary (south) façade retains the original main entrance set in the front-gabled bay. This original 1923 entrance features a low-relief entablature depicting a central blind arch flanked by circular terracotta medallions. The north elevation features a central volume flanked by the two flat-roofed additions. A tapered chimney with metal cap projects from the roof along this elevation. Additional features include metal wall vents and wall-mounted lights.

Building D (Preschool)

Building D was constructed in 1973 and is in the eastern part of the campus just east of Building C, and is primarily visible from Chelsea Avenue. Building D is a rectangular, one-story, 3,796-square-foot modular building, with a height of 11 feet 9 inches. It is covered in textured stucco and is capped by a flat roof with metal eaves. Entrances display single and double metal slab doors. A wrap-around canopy provides shelter along the south and west elevations. Upheld by thin square metal columns, the porch has deep, overhanging eaves with an underside characterized by evenly placed metal beams that resemble recessed paneling or coffers. The slightly raised concrete platform is accessible via a ramp. Additional features include louvered metal wall vents, and roof- and wall-mounted lights.

Santa Monica Boulevard Quad

Situated south of Building C, the Santa Monica Boulevard Quad was constructed in 1923. The open space is traversed by several concrete walkways that historically provided pedestrian access to the original entrance on Santa Monica Boulevard. The setback is generally consistent and is landscaped with grassy lawns and mature trees of various species that are directly visible from Santa Monica Boulevard.

Main Courtyard

The Main Courtyard was constructed in 1923 and is surrounded by Building B to the north and Building C to the east, south, and west. The courtyard is landscaped with grassy lawns, mature trees, and concrete patios interspersed with lunch tables, lampposts, and trash receptacles. The "Storybook Land" sculpture is in the center of the courtyard on a tiered pedestal clad in tile. The Main Courtyard and its features are interior to the campus and are generally not visible to off-site viewers.

West Courtyard

The courtyard was constructed in 1951 and is paved and includes picnic tables; it is bordered by Building C to the east and south and by Building A to the west.

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Views of the Proposed Project's Site from Public Locations

Public viewing points, identified in Figure 5.1-1, Key Public Viewpoint Locations, were chosen as a representative sample of views of the Proposed Project's Site from surrounding public roads. Views from private residences are not protected views under CEQA or the Coastal Act and are not described here. The views from each of these public viewing points are described here and captured in Figures 5.1-2a, Existing Public Viewing Point 1, through Figure 5.1-4a, Existing Public Viewing Point 3. These views were selected based on the Proposed Project's Site location on the campus, public comments received during the scoping process, and consideration of the goals and policies in the City's General Plan.

Public Viewing Point 1: Arizona Avenue and Chelsea Avenue

Figure 5.1-2a depicts the existing viewshed from the intersection of Arizona and Chelsea Avenues, looking south toward the McKinley ES campus. As shown in Figure 5.1-2a, the Proposed Project's Site is bordered by a chain-link fence and the public rights-of-way, which include above-ground power lines; ornamental street trees, including mature Ficus trees (*Ficus sp.*); and bare planter areas with limited ruderal vegetation (i.e., weeds). Street parking in provided along Arizona and Chelsea Avenues.

From this intersection, immediate views of the campus include the asphalt play area with painted handball courts and basketball hoops with backstops, and the campus surface parking lot. The two-story building B and the roofline of Building C are visible. Additionally, the four-story Providence Saint John's Health Center is visible in the background to the southwest.

Public Viewing Point 2: Chelsea Avenue

Figure 5.1-3a, Existing Public Viewing Point 2, depicts the existing viewshed from the mid-point along Chelsea Avenue between Santa Monica Boulevard and Arizona Avenue, looking southwest at the eastern portion of the McKinley ES campus. As shown in Figure 5.1-3a, the Proposed Project's Site is bordered by a chain-link fence and the public right-of-way, which includes above-ground power lines, ornamental street trees (Ficus sp.), and bare planter areas with ruderal vegetation. Street parking is provided along Chelsea Avenue. An ingress driveway and separate egress driveway along Chelsea Avenue provide vehicle access to the associated surface parking lot, which is visible from this viewpoint.

From this viewpoint, immediate views of the campus include the children's asphalt play area to the north, the two-story Building B, the existing loggia part of Building C, the campus surface parking lot, and the modular Building D to the south. A more prominent view of the multistory Providence Saint John's Health Center is visible in the background.

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Figure 5.1-1 - Key Public Viewing Point Locations

Campus Boundary

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Scale (Feet)

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Figure 5.1-2a - Existing Public Viewing Point 1

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Figure 5.1-3a - Existing Public Viewing Point 2

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Figure 5.1-4a - Existing Public Viewing Point 3

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Public Viewing Point 3: Santa Monica Boulevard and Chelsea Avenue

Figure 5.1-4a depicts the existing viewshed from the intersection of Santa Monica Boulevard and Chelsea Avenue looking west at the southeastern portion of the McKinley ES campus. As shown in Figure 5.1-4a, the Proposed Project's Site is bordered by a chain-link fence, generally along the portion of the campus fronting Santa Monica Boulevard, and the public rights-of-way, which include above-ground power lines, ornamental street trees (*Podocarpus sp.*), and planter areas with shrubs (*Bougainvillea sp.*) and ruderal vegetation. Street parking is provided along Arizona and Chelsea Avenues.

From this intersection, immediate views of the campus include a children's playground area and the one-story modular Building D in the foreground. The campus surface parking lot to the north and the two-story Building C to the west are visible in the midground. Views of Providence Saint John's Health Center are visible in the background to the west.

Surrounding Areas

McKinley ES is surrounded by residential neighborhoods—single-family and multifamily—to the immediate north, west, and south. Commercial uses are to the southeast and southwest, and medical offices are to the south across Santa Monica Boulevard. The surrounding residential neighborhood streets include Chelsea Avenue, Arizona Avenue, and 23rd Court (alley). Santa Monica Boulevard, a regional transportation corridor, is immediately south of the campus. Wilshire Boulevard is one block north of the campus.

North

Immediately adjacent to the Proposed Project's Site to the north is the intersection of Arizona Avenue and Chelsea Avenue, surrounded by single- and multifamily residential properties with a land use designation of Low Density Housing. Further northwest, approximately 0.10 miles from the campus, is Wilshire Boulevard, a mixed-use boulevard with commercial, residential, and open space land uses.

East

Existing uses east of the Proposed Project's Site are multifamily residential buildings along Chelsea Avenue that have a land use designation of Low-Density Housing, and commercial properties at the intersection of Chelsea Avenue and Santa Monica Boulevard with a land use designation of Mixed Use Boulevard Low.

South

Existing development south of the Proposed Project's Site along Santa Monica Boulevard generally consists of commercial properties that include an automobile dealership, retail establishments, and restaurants as well as the Parkside Medical Center, which consists of four-story medical offices buildings.

West

A paved alley (23rd Court) parallels the campus on the west and separates the Proposed Project's Site from two- and three-story multifamily residential development. Additionally, the Providence St. John's Healthcare

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Facility is along 23rd Street between Arizona Avenue and Santa Monica Boulevard, about a block southwest of the campus.

Light and Glare

The Proposed Project's Site is in an urbanized area and features a mix of residential, commercial, and healthcare uses and surface parking lots. Interior lighting emanating from existing structures, security lighting, and ornamental lighting fixtures are common sources of nighttime lighting in the surrounding area. Other existing sources of nighttime lighting include pole-mounted overhead streetlights along Santa Monica Boulevard, Arizona Avenue, and other local roads; traffic signals; pedestrian safety and security lighting installed at or near building entrances; signage; vehicle headlights; and parking-lot pole lights off of Chelsea Avenue.

In addition to these lighting sources, building materials are a potential source of glare in the area surrounding the campus during daytime hours. Specifically, glass windows and exposed metal features in local area healthcare and commercial buildings are sources of potential daytime glare.

Some land uses are considered "light-sensitive receptors," including residences, hotels, and convalescent homes, since these uses are typically occupied by persons who have expectations for privacy during evening hours and are subject to disturbance by bright sources of light. Light-sensitive uses near the Proposed Project's Site include the residential uses located immediately north, west, and east of the campus.

5.1.2 Thresholds of Significance

Appendix G of the CEQA Guidelines states that, "except as provided in Public Resources Code Section 21099," a project would normally have a significant effect on the environment if the project would:

- AE-1 Have a substantial adverse effect on a scenic vista.
- AE-2 Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway.
- AE-3 In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality.
- AE-4 Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area.

The IS/NOP, included as Appendix B, substantiates that impacts associated with the following thresholds would be less than significant; therefore, these impacts will not be further addressed in this DEIR:

- 1. Threshold AE-1
- 2. Threshold AE-2

These impacts are addressed in Chapter 6, Other CEQA Considerations, and in Appendix B of this DEIR.

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5.1.3 Environmental Impacts

The following impact analysis addresses thresholds of significance for which the Initial Study/Notice of Preparation disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.1-1: The Proposed Project would not conflict with applicable zoning and other regulations governing scenic quality. [Threshold AE-3]

Construction

Construction activities would occur entirely within the McKinley ES campus. During the construction period, various types of construction equipment (e.g., backhoes, forklifts, skip loaders, and compaction rollers) would be present on-site to varying degrees and in various locations, depending on phase and activity. Construction activities would comply with SMMC 4.12.110. Before construction activities begin for any phase, temporary fencing would be installed around the construction areas. Construction activities at ground level would be largely obscured from off-site viewpoints by existing intervening fencing, buildings, and vegetation on the campus. Furthermore, visual effects from construction activities would be temporary and short term. As such, construction of the Proposed Project would not conflict with applicable zoning and other regulations governing scenic quality of the campus. Impacts would be **less than significant**.

Operation

The Proposed Project's Site is in the City of Santa Monica (Mid-City neighborhood), which is highly urbanized. Therefore, evaluation as to whether the Proposed Project would substantially degrade the existing visual character or quality of public views of the site and its surroundings is not required. However, visual simulations were prepared for the public's information only and are not intended to support an analysis of any potential environmental impacts in this regard relative to CEQA requirements. The campus currently encompasses approximately 6.48 acres and contains four permanent buildings (Buildings A to D) and multiple modular and portable buildings (B1 to B11) (see Figure 3-4). The permanent buildings were constructed in Italian Renaissance Revival and Mid-Century Modern styles of architecture between 1923 and 1973. Additionally, the campus includes the Main and West Courtyards as well as the Santa Monica Boulevard Quad along the southern exterior of Building C that has several concrete walkways which historically provided pedestrian access to the original school entrance on Santa Monica Boulevard. The images depicted in Figures 5.1-2b, *Architectural Rendering of Public Viewing Point 1*, through 5.1-4b, *Architectural Rendering of Public Viewing Point 3*, are architectural rendering of public viewing points 1 through 3 and are intended to represent the anticipated visual character of the overall Project.

Figure 5.1-2b shows the proposed view from the area around Arizona Avenue and Chelsea Avenue looking south to the Proposed Project's Site after Project implementation. The Proposed on-site improvements would be visible to motorists and pedestrians along Arizona Avenue and Chelsea Avenue, in addition to residential properties located north of Chelsea Avenue and west of Arizona Avenue. The proposed two-story classroom building would be visible in the foreground, with the multistory Providence St. John's Healthcare Facility in the background.

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The two-story classroom building would be a visual element of increased bulk and scale; however, it would be adjacent to the existing two-story Building B and two-story Building C, which would both remain on-site. The proposed new classroom building would generally reflect the height and scale of existing on-site structures from this vantage point and would provide a stepped transition in heights. The new classroom building has been designed to reflect the visual character and appearance of existing on-site buildings in materials and color, and to respect and maintain the architectural design of the campus. The existing street trees would remain and would provide screening of views from vantage points along Chelsea Avenue and Arizona Avenue. As such, the Proposed Project is not anticipated to substantially change the overall character of the Proposed Project's Site.

Figure 5.1-3b, Architectural Rendering of Public Viewing Point 2, depicts the proposed viewshed from the midpoint along Chelsea Avenue between Santa Monica Boulevard and Arizona Avenue, looking southwest at the eastern portion of the McKinley ES campus. The proposed on-site improvements would be visible to motorists and pedestrians along Arizona Avenue and Chelsea Avenue, in addition to residential properties located north of Chelsea Avenue and west of Arizona Avenue. The proposed two-story classroom building would be visible in the foreground. The two-story classroom building would represent a visual element of increased bulk and scale; however, the building would be adjacent to the existing two-story Building B and two-story Building C, which would both remain on-site. The existing Building B and Building C are 41 feet 8 inches high and 38 feet 6 inches high, respectively. The proposed classroom building would be 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. It would be set back from Chelsea Avenue behind the new pick-up/drop-off queue. A new, approximately 24-foot-high East Loggia would be developed in front of the new Classroom Building for screening. The new East Loggia would reflect a similar style to the existing Building C east loggia, representing the existing frontage facing Chelsea Avenue. The height of the East Loggia would have a 15-foot setback from Chelsea Avenue, would be taller than the average heights of the students for security purposes. The East Loggia would serve to screen both views into the campus from Chelsea and views from the campus onto Chelsea

The proposed outdoor classroom—part of the new classroom building—would be screened behind the new East Loggia. The new outdoor classroom would include a 4-foot-tall privacy, safety, and security wall (see Figure 5.1-5, *Building Sections*).

Figure 5.1-4b depicts the proposed viewshed from the intersection of Santa Monica Boulevard and Chelsea Avenue, looking west at the southeastern portion of the McKinley ES campus. The proposed on-site improvements would be visible to motorists and pedestrians along Santa Monica Boulevard. As described in Chapter 3, *Project Description*, existing Modular Building D would be removed as part of Phase 3 of the Proposed Project. Therefore, the proposed view looking northeast from Santa Monica Boulevard would be characterized by security fencing, landscaped open space, and the new arrival court and pick-up/drop-off queue; the existing Building C; and new classroom building in the foreground. The existing Building C along Santa Monica Boulevard and the multistory Providence St. John's Healthcare Facility would be visible in the background. As illustrated, the view would not be substantially altered because of the Proposed Project's implementation. The proposed two-story classroom building would be visible from this vantage point and would represent an element of increased height and scale on-site compared to existing conditions; however, due to the viewing angle and building orientation, the structure would not represent a visually dominant element within the view.

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Figure 5.1-2b - Architectural Rendering of Public Viewing Point 1

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Figure 5.1-3b - Architectural Rendering of Public Viewing Point 2

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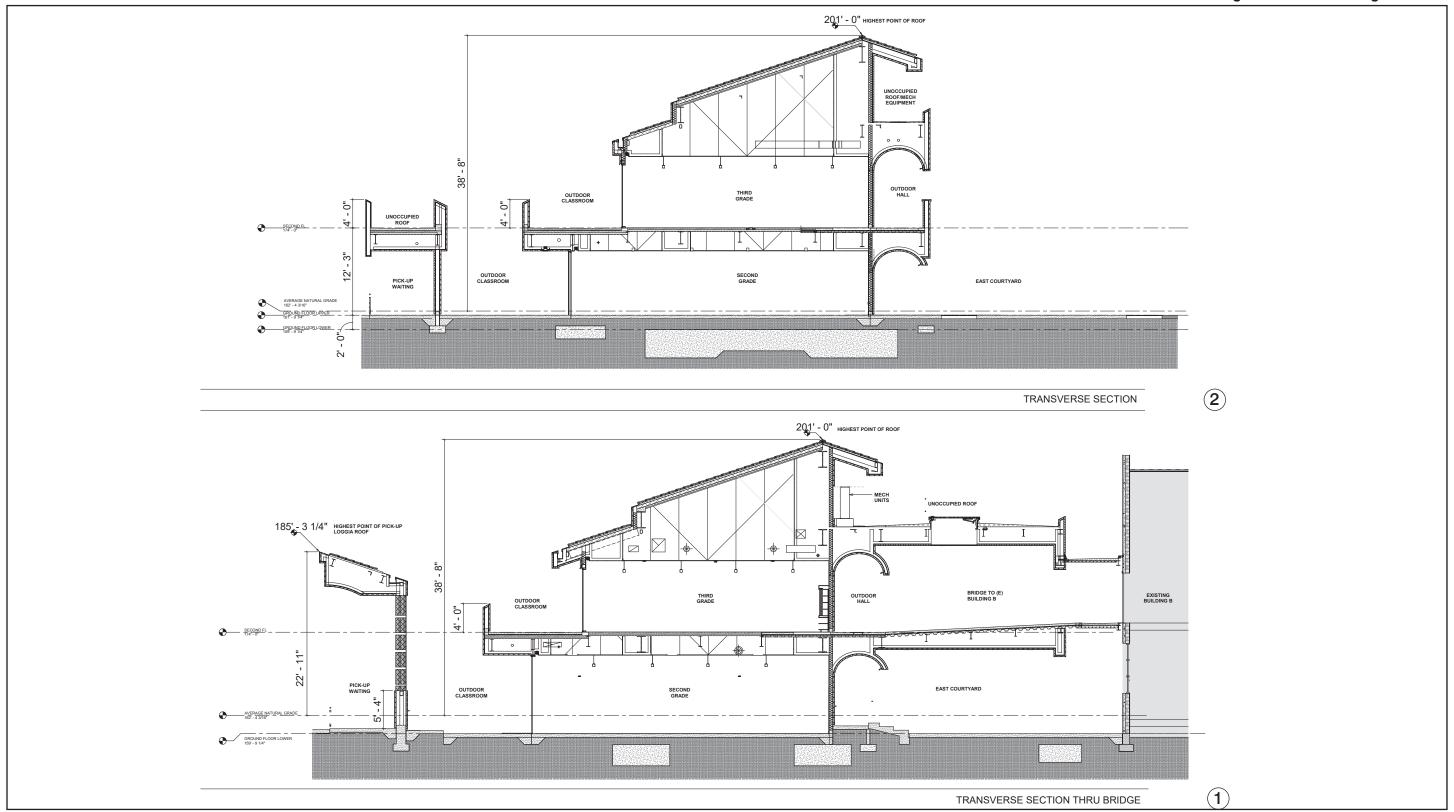


Figure 5.1-4b - Architectural Rendering of Public Viewing Point 3

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Figure 5.1-5 - Building Sections



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New development is governed by the City's zoning ordinance and the LUCE, which includes development standards and design policies. The new classroom building constructed along Chelsea Avenue would have a maximum height of 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. Though the building height would exceed the maximum permitted height of 32 feet above grade—as stipulated in Table 9.15.030, Development Standards – Public and Park Districts, of the SMMC Chapter 9.15—the new structure would be compatible with the existing Buildings B, which has a total height of 41 feet 4 inches, and Building C, which has a total building height of 38 feet 6 inches. Both these buildings would remain in place, integrating the proposed buildings to the existing campus. Development of the Proposed Project would comply with Policies LU15.10, N1.7, and N4.1 of the LUCE, to design buildings with a variety of heights and shapes to create visual interest while maintaining a generally consistent overall street front; make new development projects of compatible scale and character with the existing neighborhoods, providing respectful transitions to existing homes; and design new development to transition in size, height and scale toward adjacent residential structures. The proposed classroom building would be in conformance with the setback standards pursuant to the to SMMC Chapter 9.15, Public and Semi-Public Districts (A).

The proposed new buildings would be of quality design and would incorporate design features, colors, and exterior materials that are compatible with the surrounding landscape (see Figures 5.1-1 through 5.1-3) in compliance with Goal LU15 and Policies LU15.8 and LU15.10, which encourage well-developed design that is compatible with the neighborhoods and well-designed building façades with appropriate articulation in the form of setbacks, offsets, projections, and a mix of architectural materials and elements to establish an aesthetically pleasing pattern.

In compliance with Goal LU12 and Policies LU12.2 and LU12.3 of the LUCE, the Proposed Project would preserve all areas and structures in the campus's historical district, which characterize and represent the city's rich heritage and are considered eligible for listing in the California Register of Historical Resources and for designation as a City of Santa Monica historic district (HRG 2022), including Buildings B and C, two site features (Santa Monica Boulevard Quad and Main Courtyard), and two additional features ("Storybook Land" Sculpture and WPA Bronze Plaque), with a period of significance from 1923 to 1937.

Additional elements of the Proposed Project, including renovations to Building C, the existing library, reconfiguration of the playfields and playground, and development of the new elevator and lunch shelter, would be interior alterations to the existing campus which would not require the erection of new structures over the permitted 32 feet and would not be visible from the surrounding neighborhood or from Santa Monica Boulevard and Chelsea Avenue; thus, these elements of the Proposed Project would not have the potential to degrade the visual character or quality of the area.

Table 5.9-2, *General Plan Relevance/Consistency*, has been provided to demonstrate overall consistency with the applicable aesthetic and visual policies from the LUCE. As demonstrated, development of the Proposed Project would generally be consistent and would comply with the policies in the SMMC and LUCE. Compliance with these goals and policies, as listed above, would ensure that implementation of the Proposed Project would not

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¹ As governed by SMMC Section 9.56.100, Landmarks and Historic Districts Ordinance.

result in the significant degradation of the visual quality of the campus and surrounding area. As such, the Proposed Project would result in a **less-than-significant** impact with respect to visual character and quality.

Impact 5.1-2: The Proposed Project would not create a new source of substantial light or glare that would adversely affect day or nighttime views in the area. [Threshold AE-4]

Construction

As detailed in Chapter 3, *Project Description*, of this EIR, the Proposed Project would be constructed in three phases over an approximately 7-year period. Proposed Project construction would begin as early as Summer 2023 and end in Spring 2030. Throughout the duration of construction, construction activities would typically occur during hours permitted by the SMMC Section 4.12.110, which limits the hours of construction to 8:00 a.m. to 6:00 p.m. on weekdays and 9:00 a.m. to 5:00 p.m. on Saturday; and prohibits construction on Sundays and holidays. It is anticipated that all Proposed Project construction would occur during daytime hours. Portable temporary nighttime lighting would not be required during construction. Therefore, light and glare impacts during construction of the Proposed Project would be **less than significant**.

Operation

Light

As described above in Section 5.1.1, *Environmental Setting*, the Proposed Project's Site consists of a built-out school campus in a fully developed urbanized area. Existing light sources within the campus include interior and exterior building lighting and wayfinding lighting along campus pathways. Light sources surrounding the campus include interior and exterior lighting from residential and commercial buildings, streetlights, and vehicle lighting on local roadways. Light-sensitive receptors are generally considered to be residential properties, and may also include hospital, or nursing home uses, where excessive nighttime lighting may affect the use of the property. The nearest residences are across Chelsea Avenue and 23rd Court.

Development of the Proposed Project would include interior and exterior lighting sources, including outdoor wayfinding lighting along entryways and driveways and exterior security lighting along the perimeter of the proposed new buildings and within the relocated parking lots. Proposed Project lighting would be similar in intensity to existing conditions and surrounding uses. Consistent with existing conditions and the District's lighting standards, the Proposed Project would include only the minimum amount of outdoor lighting necessary to maintain safety and comfort. Nighttime lighting would be limited to wayfinding and security lighting, which would be shielded and directed on-site to minimize spillover effects and night sky pollution. To minimize spill lighting and glare impacts, all lighting from the Proposed Project would be LED, have full-cutoff shielding, and be aimed specifically to direct areas. Consequently, new lighting from the Proposed Project would not result in adverse nighttime views in the area. Impacts would be less than significant.

Glare

The Proposed Project would not use reflective building materials that would create new sources of glare during operation (see Figures 5.1-2b through 5.1-4b). The Proposed Project would comply with SMMC Section

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9.21.120, which prohibits the use of highly reflective materials. Section 9.21.120 states that no more than 25 percent of the surface area of any façade on any new building may contain black or mirrored glass or other mirror-like material that is highly reflective, and that materials for roofing must be nonreflective. Vertically retracting glass doors would primarily be situated toward the interior of the McKinley ES campus and would be limited to the lower story of the buildings. As such, any glare reflecting from the glass doors would be screened such that surrounding roadways and residences would not be adversely affected. The Proposed Project is not anticipated to introduce a new substantial source of glare to the Proposed Project's area such that daytime views are adversely affected. The Proposed Project would not conflict with applicable zoning and other regulations governing scenic quality. Therefore, impacts related to scenic quality would be **less than significant**.

5.1.4 Mitigation Measures

No mitigation measures are required.

5.1.5 Level of Significance After Mitigation

All impacts are less than significant.

5.1.6 Cumulative Impacts

Aesthetic impacts are typically localized to the Proposed Project's Site and immediate surrounding area. The closest cumulative project to the Proposed Project's Site is the development at Providence St. John's Healthcare Center, approximately 0.04 mile southwest of the campus. The St. John's Healthcare Center is a larger existing development than the Proposed Project, with taller buildings and more sources of light than the Proposed Project. Development in the city of Santa Monica is subject to design review and adherence to applicable regulations and policies relating to scenic resources, visual quality, and lighting. Compliance with these policies would ensure that the future development would not result in a substantial adverse effect on a scenic vista or the degradation of the existing visual character or quality of the site and its surroundings. Cumulative projects could introduce new nighttime lighting and would be required to comply with regulations related to aesthetics and lighting and glare in the SMMC.

As described above, the Proposed Project would exceed allowable building heights; however, the Proposed Project would be compatible with the existing buildings on-site and in the immediately surrounding area. The Proposed Project would not create new sources of substantial light and glare that would affect day or nighttime views. Therefore, the Proposed Project's contribution to cumulative impacts would not be cumulatively considerable, and the cumulative impact of the Proposed Project would be **less than significant**.

5.1.7 References

California Department of Transportation (Caltrans). 2019. California State Scenic Highway System Map. Accessed December 1. 2022. https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id =465dfd3d807c46cc8e8057116f1aacaa.

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Historic Resources Group (HRG). 2022, January. McKinley Elementary School, Santa Monica, CA, Historic Resources Inventory Report.

Santa Monica, City of. 2015, July 24. Santa Monica Land Use and Circulation Element. Accessed December 1, 2022. https://learn.sharedusemobilitycenter.org/wp-content/uploads/policy-documents -4/Santa%20Monica_Revised%20LUCE%207.24.15_web.pdf.

— Santa Monica Municipal Code. https://library.qcode.us/lib/santa_monica_ca/pub/municipal_code.

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5.2 AIR QUALITY

This section of the Draft Environmental Impact Report (DEIR) evaluates the potential for the McKinley Elementary School Campus Master Plan (Proposed Project) to impact air quality in a local and regional context. This evaluation is based on the methodology recommended by the South Coast Air Quality Management District (South Coast AQMD). The analysis focuses on air pollution from regional emissions and localized pollutant concentrations. In this section, "emissions" refers to the actual quantity of pollutant, measured in pounds per day (lbs./day), and "concentrations" refers to the amount of pollutant material per volumetric unit of air. Concentrations are measured in parts per million, parts per billion, or micrograms per cubic meter.

Criteria air pollutant emissions modeling is included in Appendix D, Air Quality and Greenhouse Gas Emissions Data, of this DEIR. Transportation-sector impacts are based on trip generation and vehicle miles traveled (VMT) as provided by IBI Group (see Appendix K). Cumulative impacts related to air quality are based on the regional boundaries of the South Coast Air Basin (SoCAB). An evaluation of localized construction health risks is in Appendix E, Construction Health Risk Assessment, of this DEIR.

During the Initial Study/Notice of Preparation (IS/NOP) public review period, comments were received regarding health risk and air quality during construction of the Proposed Project. A California Environmental Quality Act (CEQA) scoping meeting was conducted on January 31, 2023, where additional concerns regarding these issues were raised. The IS/NOP and all scoping comment letters are included as Appendices B and C of this document.

5.2.1 Environmental Setting

5.2.1.1 AIR POLLUTANTS OF CONCERN

Criteria Air Pollutants

The pollutants emitted into the ambient air by stationary and mobile sources are categorized as primary and/or secondary pollutants. Primary air pollutants are emitted directly from sources. Carbon monoxide (CO), volatile organic compounds (VOC), nitrogen oxides (NO_X), sulfur dioxide (SO₂), coarse inhalable particulate matter (PM₁₀), fine inhalable particulate matter (PM_{2.5}), and lead (Pb) are primary air pollutants. Of these, CO, SO₂, nitrogen dioxide (NO₂), PM₁₀, and PM_{2.5} are "criteria air pollutants," which means that ambient air quality standards (AAQS) have been established for them. VOC and NO_X are criteria pollutant precursors that form secondary criteria air pollutants through chemical and photochemical reactions in the atmosphere. Ozone (O₃) and NO₂ are the principal secondary pollutants.

Each of the primary and secondary criteria air pollutants and its known health effects are described below.

■ Carbon Monoxide (CO) is a colorless, odorless, toxic gas produced by incomplete combustion of carbon substances, such as gasoline or diesel fuel. CO is a primary criteria air pollutant. CO concentrations tend to be the highest during winter mornings with little to no wind, when surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion, engines and motor vehicles operating at slow speeds are the primary source of CO in the SoCAB. The highest ambient CO

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concentrations are generally found near traffic-congested corridors and intersections. The primary adverse health effect associated with CO is interference with normal oxygen transfer to the blood, which may result in tissue oxygen deprivation (South Coast AQMD 2005; US EPA 2023a). The SoCAB is designated as being in attainment under the California AAQS and attainment (serious maintenance) under the National AAQS (CARB 2023a).

- Volatile Organic Compounds (VOC) are composed primarily of hydrogen and carbon atoms. Internal combustion associated with motor vehicle usage is the major source of VOCs. Other sources include evaporative emissions from paints and solvents, asphalt paving, and household consumer products such as aerosols (South Coast AQMD 2005). There are no AAQS for VOCs. However, because they contribute to the formation of O₃, South Coast AQMD has established a significance threshold (South Coast AQMD 2019). The health effects for ozone are described later in this section.
- Nitrogen Oxides (NOx) are a by-product of fuel combustion and contribute to the formation of groundlevel O₃, PM₁₀, and PM_{2.5}. The two major forms of NO_X are nitric oxide (NO) and nitrogen dioxide (NO₂). NO is a colorless, odorless gas formed from atmospheric nitrogen and oxygen when combustion takes place under high temperature and/or high pressure. The principal form of NO_X produced by combustion is NO, but NO reacts quickly with oxygen to form NO₂, creating the mixture of NO and NO₂ commonly called NO_X. NO₂ is an acute irritant and more injurious than NO in equal concentrations. At atmospheric concentrations, however, NO2 is only potentially irritating. NO2 absorbs blue light; the result is a brownishred cast to the atmosphere and reduced visibility. NO₂ exposure concentrations near roadways are of particular concern for susceptible individuals, including asthmatics, children, and the elderly. Current scientific evidence links short-term NO₂ exposures, ranging from 30 minutes to 24 hours, with adverse respiratory effects, including airway inflammation in healthy people and increased respiratory symptoms in people with asthma. Also, studies show a connection between elevated short-term NO₂ concentrations and increased visits to emergency departments and hospital admissions for respiratory issues, especially asthma (South Coast AQMD 2005; USEPA 2023a). On February 21, 2019, CARB's Board approved the separation of the area that runs along the State Route 60 corridor through portions of Riverside, San Bernardino, and Los Angeles counties from the remainder of the SoCAB for state nonattainment designation purposes. The Board designated this corridor as nonattainment. The remainder of the SoCAB is designated in attainment (maintenance) under the National AAQS and attainment under the California AAQS (CARB 2023a).
- Sulfur Dioxide (SO₂) is a colorless, pungent, irritating gas formed by the combustion of sulfurous fossil fuels. It enters the atmosphere as a result of burning high-sulfur-content fuel oils and coal and chemical processes at plants and refineries. Gasoline and natural gas have very low sulfur content and do not release significant quantities of SO₂. When sulfur dioxide forms sulfates (SO₄) in the atmosphere, together these pollutants are referred to as sulfur oxides (SO_x). Thus, SO₂ is both a primary and secondary criteria air pollutant. At sufficiently high concentrations, SO₂ may irritate the upper respiratory tract. Current scientific evidence links short-term exposures to SO₂, ranging from 5 minutes to 24 hours, with an array of adverse

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CARB is proposing to redesignate SR-60 Near-Road Portion of San Bernardino, Riverside, and Los Angeles Counties in the SoCAB as attainment for NO₂ at the February 24, 2022 Board Hearing (CARB 2023d).

respiratory effects, including bronchoconstriction and increased asthma symptoms. These effects are particularly adverse for asthmatics at elevated ventilation rates (e.g., while exercising or playing) at lower concentrations and when combined with particulates, SO₂ may do greater harm by injuring lung tissue. Studies also show a connection between short-term exposure and increased visits to emergency facilities and hospital admissions for respiratory illnesses, particularly in at-risk populations such as children, the elderly, and asthmatics (South Coast AQMD 2005; US EPA 2023a). The SoCAB is designated as attainment under the California and National AAQS (CARB 2023a).

- Suspended Particulate Matter (PM₁₀ and PM_{2.5}) consists of finely divided solids or liquids such as soot, dust, aerosols, fumes, and mists. Two forms of fine particulates are now recognized and regulated. Inhalable coarse particles, or PM₁₀, include particulate matter with an aerodynamic diameter of 10 microns or less (i.e., ≤0.01 millimeter). Inhalable fine particles, or PM_{2.5}, have an aerodynamic diameter of 2.5 microns or less (i.e., $\leq 0.002.5$ millimeter). Particulate discharge into the atmosphere results primarily from industrial, agricultural, construction, and transportation activities. Both PM₁₀ and PM_{2.5} may adversely affect the human respiratory system, especially in people who are naturally sensitive or susceptible to breathing problems. The EPA's scientific review concluded that PM2.5, which penetrates deeply into the lungs, is more likely than PM₁₀ to contribute to health effects and at far lower concentrations. These health effects include premature death in people with heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory symptoms (e.g., irritation of the airways, coughing, or difficulty breathing) (South Coast AQMD 2005). There has been emerging evidence that ultrafine particulates, which are even smaller particulates with an aerodynamic diameter of <0.1 microns or less (i.e., ≤ 0.0001 millimeter) have human health implications because their toxic components may initiate or facilitate biological processes that may lead to adverse effects to the heart, lungs, and other organs (South Coast AQMD 2013). However, the EPA and the California Air Resources Board (CARB) have not adopted AAQS to regulate these particulates. Diesel particulate matter is classified by CARB as a carcinogen (CARB 2023e). Particulate matter can also cause environmental effects such as visibility impairment,² environmental damage,³ and aesthetic damage⁴ (South Coast AQMD 2005; US EPA 2023a). The SoCAB is a nonattainment area for PM_{2.5} under California and National AAQS and a nonattainment area for PM₁₀ under the California AAQS (CARB 2023a).5
- Ozone (O₃) is a key ingredient of "smog" and is a gas that is formed when VOCs and NO_X, both byproducts of internal combustion engine exhaust, undergo photochemical reactions in sunlight. O₃ is a secondary criteria air pollutant. O₃ concentrations are generally highest during the summer months when direct sunlight, light winds, and warm temperatures create favorable conditions for its formation. O₃ poses

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² PM_{2.5} is the main cause of reduced visibility (haze) in parts of the United States.

³ Particulate matter can be carried over long distances by wind and then settle on ground or water, making lakes and streams acidic; changing the nutrient balance in coastal waters and large river basins; depleting the nutrients in soil; damaging sensitive forests and farm crops; and affecting the diversity of ecosystems.

⁴ Particulate matter can stain and damage stone and other materials, including culturally important objects such as statues and monuments.

⁵ CARB approved the South Coast AQMD's request to redesignate the SoCAB from serious nonattainment for PM₁₀ to attainment for PM₁₀ under the National AAQS on March 25, 2010, because the SoCAB did not violate federal 24-hour PM₁₀ standards from 2004 to 2007. The EPA approved the State of California's request to redesignate the South Coast PM₁₀ nonattainment area to attainment of the PM₁₀ National AAQS, effective on July 26, 2013.

a health threat to those who already suffer from respiratory diseases as well as to healthy people. Breathing O₃ can trigger a variety of health problems, including chest pain, coughing, throat irritation, and congestion. It can worsen bronchitis, emphysema, and asthma. Ground-level O₃ also can reduce lung function and inflame the linings of the lungs. Repeated exposure may permanently scar lung tissue. O₃ also affects sensitive vegetation and ecosystems, including forests, parks, wildlife refuges, and wilderness areas. In particular, O₃ harms sensitive vegetation during the growing season (South Coast AQMD 2005; US EPA 2023a). The SoCAB is designated extreme nonattainment under the California AAQS (1-hour and 8-hour) and National AAQS (8-hour) (CARB 2023a).

Lead (Pb) is a metal found naturally in the environment as well as in manufactured products. Once taken into the body, lead distributes throughout the body in the blood and accumulates in the bones. Depending on the level of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems, and the cardiovascular system. Lead exposure also affects the oxygen-carrying capacity of the blood. The effects of lead most commonly encountered in current populations are neurological effects in children and cardiovascular effects in adults (e.g., high blood pressure and heart disease). Infants and young children are especially sensitive to even low levels of lead, which may contribute to behavioral problems, learning deficits, and lowered IQ (South Coast AQMD 2005; USEPA 2018). The major sources of lead emissions have historically been mobile and industrial sources. As a result of the EPA's regulatory efforts to remove lead from gasoline, emissions of lead from the transportation sector dramatically declined by 95 percent between 1980 and 1999, and levels of lead in the air decreased by 94 percent between 1980 and 1999. Today, the highest levels of lead in air are usually found near lead smelters. The major sources of lead emissions today are ore and metals processing and piston-engine aircraft operating on leaded aviation gasoline. However, in 2008 the EPA and CARB adopted more strict lead standards, and special monitoring sites immediately downwind of lead sources recorded very localized violations of the new state and federal standards. 6 As a result of these violations, the Los Angeles County portion of the SoCAB is designated as nonattainment under the National AAQS for lead (South Coast AQMD 2012; CARB 2023a). However, lead concentrations in this nonattainment area have been below the level of the federal standard since December 2011 (South Coast AQMD 2012). CARB's State Implementation Plan (SIP) revision was submitted to the EPA for approval. Because emissions of lead are found only in projects that are permitted by South Coast AQMD, lead is not a pollutant of concern for the Proposed Project.

Table 5.2-1, Criteria Air Pollutant Health Effects Summary, summarizes the potential health effects associated with the criteria air pollutants.

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⁶ Source-oriented monitors record concentrations of lead at lead-related industrial facilities in the SoCAB, which include Exide Technologies in the City of Commerce; Quemetco, Inc., in the City of Industry; Trojan Battery Company in Santa Fe Springs; and Exide Technologies in Vernon. Monitoring conducted between 2004 through 2007 showed that the Trojan Battery Company and Exide Technologies exceed the federal standards (South Coast AQMD 2012).

Table 5.2-1 Criteria Air Pollutant Health Effects Summary

Pollutant	Health Effects	Examples of Sources		
Carbon Monoxide (CO) Chest pain in heart patients Headaches, nausea Reduced mental alertness Death at very high levels		Any source that burns fuel such as cars, trucks, construction and farming equipment, and residential heaters and stoves		
Ozone (O ₃)	Cough, chest tightness Difficulty taking a deep breath Worsened asthma symptoms Lung inflammation	Atmospheric reaction of organic gases with nitrogen oxides in sunlight		
Nitrogen Dioxide (NO ₂)	Increased response to allergens Aggravation of respiratory illness	Same as carbon monoxide sources		
Particulate Matter (PM ₁₀ and PM _{2.5})	Hospitalizations for worsened heart diseases Emergency room visits for asthma Premature death	Cars and trucks (particularly diesels) Fireplaces and woodstoves Windblown dust from overlays, agriculture, and construction		
Sulfur Dioxide (SO ₂)	Aggravation of respiratory disease (e.g., asthma and emphysema) Reduced lung function	Combustion of sulfur-containing fossil fuels, smelting of sulfur-bearing metal ores, and industrial processes		
Lead (Pb)	Behavioral and learning disabilities in children Nervous system impairment	Contaminated soil		

Toxic Air Contaminants

CARB has identified other air pollutants as toxic air contaminants (TACs), which are pollutants that may cause serious, long-term effects. Main sources of outdoor TACs include emissions from stationary sources (e.g., factories, refineries, powerplants) and mobile sources e.g., cars, trucks, buses) (US EPA 2018). For indoor TACs, the main sources include building materials (e.g., asbestos) and chemicals like solvents (US EPA 2018). People exposed to TACs at sufficient concentrations and durations may have an increased chance of getting cancer or experiencing other serious health effects. These health effects can include damage to the immune system as well as neurological, reproductive (e.g., reduced fertility), developmental, respiratory, and other health problems (US EPA 2021b). By the last update to the TAC list in December 1999, CARB had designated 244 compounds as TACs (CARB 1999). Additionally, CARB has implemented control measures for a number of compounds that pose high risks and show potential for effective control. There are no air quality standards for TACs. Instead, TAC impacts are evaluated by calculating the health risks associated with a given exposure. The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most relevant to the Proposed Project being particulate matter from diesel-fueled engines.

Diesel Particulate Matter

In 1998, CARB identified diesel particulate matter (DPM) as a TAC. Previously, the individual chemical compounds in diesel exhaust were considered TACs. Almost all diesel exhaust particles are 10 microns or less

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in diameter. Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lungs. Long-term (chronic) inhalation of DPM is likely a lung cancer risk. Short-term (i.e., acute) exposure can cause irritation and inflammatory systems and may exacerbate existing allergies and asthma systems (USEPA 2002).

5.2.1.1 REGULATORY BACKGROUND

Ambient air quality standards have been adopted at the state and federal levels for criteria air pollutants. In addition, both the state and federal government regulate the release of TACs. The Proposed Project is in the SoCAB and is subject to the rules and regulations imposed by the South Coast AQMD as well as the California AAQS adopted by CARB and National AAQS adopted by the EPA. Federal, state, and regional laws, regulations, plans, or guidelines that are potentially applicable to the Proposed Project are summarized in this section.

Federal and State

Ambient Air Quality Standards

The Clean Air Act was passed in 1963 by the US Congress and has been amended several times. The 1970 Clean Air Act amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including nonattainment requirements for areas not meeting National AAQS and the Prevention of Significant Deterioration program. The 1990 amendments represent the latest in a series of federal efforts to regulate the protection of air quality in the United States. The Clean Air Act allows states to adopt more stringent standards or to include other pollution species. The California Clean Air Act, signed into law in 1988, requires all areas of the state to achieve and maintain the California AAQS by the earliest practical date. The California AAQS tend to be more restrictive than the National AAQS.

These National and California AAQS are the levels of air quality considered to provide a margin of safety in the protection of the public health and welfare. They are designed to protect "sensitive receptors" most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

Both California and the federal government have established health-based AAQS for seven air pollutants. As shown in Table 5.2-2, *Ambient Air Quality Standards for Criteria Pollutants*, these pollutants are O₃, NO₂, CO, SO₂, PM₁₀, PM_{2.5}, and Pb. In addition, the state has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

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Table 5.2-2 Ambient Air Quality Standards for Criteria Pollutants

Table 5.2-2 Ambient Air Quality Standards for Criteria Pollutants						
Pollutant	Averaging Time	California Standard ¹	Federal Primary Standard ²	Major Pollutant Sources		
Ozone (O ₃) ³	1 hour	0.09 ppm	*	Motor vehicles, paints, coatings, and solvents.		
	8 hours	0.070 ppm	0.070 ppm			
Carbon Monoxide (CO)	1 hour	20 ppm	35 ppm	Internal combustion engines, primarily gasoline-powered motor vehicles.		
	8 hours	9.0 ppm	9 ppm			
Nitrogen Dioxide (NO ₂)	Annual Arithmetic Mean	0.030 ppm	0.053 ppm	Motor vehicles, petroleum-refining operations, industrial sources, aircraft, ships, and railroads.		
	1 hour	0.18 ppm	0.100 ppm			
Sulfur Dioxide (SO ₂) ⁵	Annual Arithmetic Mean	*	0.030 ppm	Fuel combustion, chemical plants, sulfur recovery plants, and metal processing.		
	1 hour	0.25 ppm	0.075 ppm			
	24 hours	0.04 ppm	0.14 ppm			
Respirable Coarse Particulate Matter (PM ₁₀)	Annual Arithmetic Mean	20 µg/m³	*	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., windraised dust and ocean sprays).		
	24 hours	50 μg/m ³	150 µg/m³			
Respirable Fine Particulate Matter (PM _{2.5}) ⁴	Annual Arithmetic Mean	12 µg/m³	12 µg/m³	Dust and fume-producing construction, industrial, and agricultural operations, combustion, atmospheric photochemical reactions, and natural activities (e.g., wind-raised dust and ocean sprays).		
	24 hours	*	35 μg/m ³			
Lead (Pb)	30-Day Average	1.5 µg/m³	*	Present source: lead smelters, battery manufacturing & recycling facilities. Past source: combustion of leaded gasoline.		
	Calendar Quarter	*	1.5 µg/m³			
	Rolling 3-Month Average	*	0.15 μg/m ³			
Sulfates (SO ₄)	24 hours	25 µg/m³	*	Industrial processes.		
Visibility Reducing Particles	8 hours	ExCo =0.23/km visibility of 10≥ miles	*	Visibility-reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in shape, size and chemical composition, and can be made up of many different materials such as metals, soot, soil, dust, and salt.		
Hydrogen Sulfide	1 hour	0.03 ppm	*	Hydrogen sulfide (H ₂ S) is a colorless gas with the odor of rotten eggs. It is formed during bacterial decomposition of sulfur-containing organic substances. Also, it can be present in sewer gas and some natural gas and can be emitted as the result of geothermal energy exploitation.		

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Table 5.2-2 Ambient Air Quality Standards for Criteria Pollutants

Pollutant	Averaging Time	California Standard ¹	Federal Primary Standard ²	Major Pollutant Sources
Vinyl Chloride	24 hours	0.01 ppm	*	Vinyl chloride (chloroethene), a chlorinated hydrocarbon, is a colorless gas with a mild, sweet odor. Most vinyl chloride is used to make polyvinyl chloride (PVC) plastic and vinyl products. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites, due to microbial breakdown of chlorinated solvents.

Source: CARB 2016.

Notes: ppm: parts per million; µg/m³: micrograms per cubic meter

- * Standard has not been established for this pollutant/duration by this entity.
- ¹ California standards for O3, CO (except 8-hour Lake Tahoe), SO2 (1 and 24 hour), NO2, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- National standards (other than O3, PM, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The O3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m3 is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.
- ³ On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- 4 On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m3 to 12.0 µg/m3. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 µg/m3, as was the annual secondary standard of 15 µg/m3. The existing 24-hour PM10 standards (primary and secondary) of 150 µg/m3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- On June 2, 2010, a new 1-hour SO2 standard was established and the existing 24-hour and annual primary standards were revoked. The 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

California has also adopted a host of other regulations that reduce criteria pollutant emissions.

- Assembly Bill (AB) 1493: Pavley Fuel Efficiency Standards. Pavley I is a clean-car standard that reduces greenhouse gas (GHG) emissions from new passenger vehicles (light-duty auto to medium-duty vehicles) from 2009 through 2016. In January 2012, CARB approved the Advanced Clean Cars program (formerly known as Pavley II) for model years 2017 through 2025.
- Heavy-Duty (Tractor-Trailer) GHG Regulation. The tractors and trailers subject to this regulation must either use EPA SmartWay-certified tractors and trailers or retrofit their existing fleet with SmartWay-verified technologies. The regulation applies primarily to owners of 53-foot or longer box-type trailers, including both dry-van and refrigerated-van trailers, and owners of the heavy-duty tractors that pull them on California highways. These owners are responsible for replacing or retrofitting their affected vehicles with compliant aerodynamic technologies and low rolling resistance tires. Sleeper cab tractors model year 2011 and later must be SmartWay certified. All other tractors must use SmartWay-verified low-rolling-resistance tires. There are also requirements for trailers to have low-rolling-resistance tires and aerodynamic devices
- **SB 1078 and SB 107.** Renewables Portfolio Standards. A major component of California's Renewable Energy Program is the renewables portfolio standard (RPS) established under Senate Bills 1078 (Sher) and 107 (Simitian). Under the RPS, certain retail sellers of electricity were required to increase the amount of renewable energy each year by at least 1 percent in order to reach at least 20 percent by December 30, 2010.

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- California Code of Regulations (CCR), Title 20: Appliance Energy Efficiency Standards. The 2006 Appliance Efficiency Regulations (20 CCR sections 1601–1608) were adopted by the California Energy Commission on October 11, 2006, and approved by the California Office of Administrative Law on December 14, 2006. The regulations include standards for both federally regulated appliances and non–federally regulated appliances.
- 24 CCR, Part 6: Building and Energy Efficiency Standards. Energy conservation standards for new residential and nonresidential buildings adopted by the California Energy Resources Conservation and Development Commission (now the California Energy Commission) in June 1977.
- 24 CCR, Part 11: Green Building Standards Code. Establishes planning and design standards for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants.⁷

Tanner Air Toxics Act and Air Toxics Hot Spot Information and Assessment Act

Public exposure to TACs is a significant environmental health issue in California. In 1983, the California legislature enacted a program to identify the health effects of TACs and reduce exposure to them. The California Health and Safety Code defines a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health" (17 CCR sec. 93000). A substance that is listed as a hazardous air pollutant pursuant to Section 112(b) of the federal Clean Air Act (42 US Code sec. 7412[b]) is a TAC. Under state law, the California Environmental Protection Agency (CalEPA), acting through CARB, is authorized to identify a substance as a TAC if it is an air pollutant that may cause or contribute to an increase in mortality or serious illness, or may pose a present or potential hazard to human health.

California regulates TACs primarily through AB 1807 (Tanner Air Toxics Act) and AB 2588 (Air Toxics "Hot Spot" Information and Assessment Act of 1987). The Tanner Air Toxics Act set up a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an "airborne toxics control measure" for sources that emit that TAC. If there is a safe threshold for a substance (i.e., a point below which there is no toxic effect), the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate "toxics best available control technology" to minimize emissions. To date, CARB has established formal control measures for 11 TACs that are identified as having no safe threshold.

Under AB 2588, TAC emissions from individual facilities are quantified and prioritized by the air quality management district or air pollution control district. High-priority facilities are required to perform a health risk assessment, and if specific thresholds are exceeded, are required to communicate the results to the public through notices and public meetings.

CARB has promulgated the following specific rules to limit TAC emissions:

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⁷ The green building standards became mandatory in the 2010 edition of the code.

- 13 CCR Chapter 10 Section 2485: Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling. Generally restricts on-road diesel-powered commercial motor vehicles with a gross vehicle weight rating of greater than 10,000 pounds from idling more than five minutes.
- 13 CCR Chapter 10 Section 2480: Airborne Toxic Control Measure to Limit School Bus Idling and Idling at Schools. Generally restricts a school bus or transit bus from idling for more than five minutes when within 100 feet of a school.
- 13 CCR Section 2477 and Article 8: Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets and Facilities Where TRUs Operate. Regulations established to control emissions associated with diesel-powered TRUs.

Regional

Air Quality Management Planning

The South Coast AQMD is the agency responsible for improving air quality in the SoCAB and ensuring that the National and California AAQS are attained and maintained. South Coast AQMD is responsible for preparing the air quality management plan (AQMP) for the SoCAB in coordination with the Southern California Association of Governments (SCAG). The AQMP is a regional strategy plan to achieve air quality standards by examining emissions, looking at regional growth projections, and the impact of existing and proposed control measures to provide healthful air in the long-term. Since 1979, a number of AQMPs have been prepared.

The Clean Air Act requires CARB to develop a State Implementation Plans (SIP) that describes how an area will attain national AAQS. The AQMP provides the framework for air quality basins to achieve attainment of the state and federal ambient air quality standards through the SIP. Areas are classified as attainment or nonattainment areas for a particular pollutant depending on whether they meet the AAQSs. Severity classifications for ozone nonattainment range in magnitude from marginal, moderate, and serious to severe and extreme.

- Unclassified. A pollutant is designated unclassified if the data are incomplete and do not support a
 designation of attainment or nonattainment.
- Attainment. A pollutant is in attainment if the AAQS for that pollutant was not violated at any site in the area during a three-year period.
- **Nonattainment.** A pollutant is in nonattainment if there was at least one violation of an AAQS for that pollutant in the area.
- **Nonattainment/Transitional.** A subcategory of the nonattainment designation. An area is designated nonattainment/transitional to signify that the area is close to attaining the AAQS for that pollutant.

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2022 AQMP

South Coast AQMD adopted the 2022 AQMP on December 2, 2022, which serves as an update to the 2017 AQMP. On October 1, 2015, the EPA strengthened the National AAQS for ground-level ozone, lowering the primary and secondary ozone standard levels to 70 parts per billion (ppb) (2015 Ozone National AAQS.). The SoCAB is currently classified as an "extreme" nonattainment for the 2015 Ozone National AAQS. Meeting the 2015 federal ozone standard requires reducing NO_x emissions, the key pollutant that creates ozone, by 67 percent more than is required by adopted rules and regulations in 2037. The only way to achieve the required NO_x reductions is through extensive use of zero emission (ZE) technologies across all stationary and mobile sources. South Coast AQMD's primary authority is over stationary sources which account for approximately 20 percent of NO_x emissions. The overwhelming majority of NO_x emissions are from heavy-duty trucks, ships and other State and federally regulated mobile sources that are mostly beyond the South Coast AQMD's control. The region will not meet the standard absent significant federal action. In addition to federal action, the 2022 AQMP requires substantial reliance on future deployment of advanced technologies to meet the standard. The control strategy for the 2022 AQMP includes aggressive new regulations and the development of incentive programs to support early deployment of advanced technologies. The two key areas for incentive programs are (1) promoting widespread deployment of available ZE and low-NO_x technologies and (2) developing new ZE and ultra-low NO_x technologies for use in cases where the technology is not currently available. South Coast AQMD is prioritizing distribution of incentive funding in Environmental Justice areas and seeking opportunities to focus benefits on the most disadvantaged communities (South Coast AQMD 2022).

South Coast AQMD PM2.5 Redesignation Request and Maintenance Plan

In 1997, the EPA adopted the 24-hour fine PM_{2.5} standard of 65 micrograms per cubic meter (μg/m³). In 2006, this standard was lowered to a more health-protective level of 35 μg/m³. The SoCAB is designated nonattainment for both the 65 and 35 μg/m³ 24-hour PM_{2.5} standards (24-hour PM_{2.5} standards). In 2020, monitored data demonstrated that the SoCAB attained both 24-hour PM_{2.5} standards. The South Coast AQMD has developed the "2021 Redesignation Request and Maintenance Plan" for the 1997 and 2006 24-hour PM_{2.5} Standards for the SoCAB PM_{2.5} Redesignation Request and Maintenance Plan, demonstrating that the SoCAB has met the requirements to be redesignated to attainment for the 24-hour PM_{2.5} standards (South Coast AQMD 2021b).

AB 617, Community Air Protection Program

AB 617 (C. Garcia, Chapter 136, Statutes of 2017) requires local air districts to monitor and implement air pollution control strategies that reduce localized air pollution in communities that bear the greatest burdens. In response to AB 617, CARB has established the Community Air Protection Program.

Air districts are required to host workshops to help identify disadvantaged communities that are disproportionately affected by poor air quality. Once the criteria for identifying the highest priority locations have been identified and the communities have been selected, new community monitoring systems would be installed to track and monitor community-specific air pollution goals. In 2018 CARB prepared an air monitoring plan, the Community Air Protection Blueprint (Blueprint) that evaluates the availability and effectiveness of air

monitoring technologies and existing community air monitoring networks. Under AB 617, the Blueprint is required to be updated every five years.

Under AB 617, CARB is also required to prepare a statewide strategy to reduce TACs and criteria pollutants in impacted communities; provide a statewide clearinghouse for best available retrofit control technology; adopt new rules requiring the latest best available retrofit control technology for all criteria pollutants for which an area has not achieved attainment of California AAQS; and provide uniform, statewide reporting of emissions inventories. Air districts are required to adopt a community emissions reduction program to achieve reductions for the communities impacted by air pollution that CARB identifies.

Lead Implementation Plan

In 2008, the EPA designated the Los Angeles County portion of the SoCAB as a nonattainment area under the federal lead (Pb) classification because of the addition of source-specific monitoring under the new federal regulation. This designation was based on two source-specific monitors in the City of Vernon and the City of Industry that exceeded the new standard in the 2007 to 2009 period. The remainder of the SoCAB, outside the Los Angeles County nonattainment area, remains in attainment of the new 2008 lead standard. On May 24, 2012, CARB approved the State Implementation Plan (SIP) revision for the federal lead standard, which the EPA revised in 2008. Lead concentrations in this nonattainment area have been below the level of the federal standard since December 2011. The SIP revision was submitted to the EPA for approval.

South Coast AQMD Rules and Regulations

All projects within the SoCAB are subject to South Coast AQMD rules and regulations in effect at the time of activity.

- Rule 401, Visible Emissions. This rule is intended to prevent the discharge of pollutant emissions from an emissions source that results in visible emissions. Specifically, the rule prohibits the discharge of any air contaminant into the atmosphere by a person from any single source of emission for a period or periods aggregating more than three minutes in any one hour that is as dark as or darker than designated No. 1 on the Ringelmann Chart, as published by the US Bureau of Mines.
- Rule 402, Nuisance. This rule is intended to prevent the discharge of pollutant emissions from an emissions source that results in a public nuisance. Specifically, this rule prohibits any person from discharging quantities of air contaminants or other material from any source such that it would result in an injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public. Additionally, the discharge of air contaminants would also be prohibited where it would endanger the comfort, repose, health, or safety of any number of persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. This rule does not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.
- Rule 403, Fugitive Dust. This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent, reduce, or mitigate fugitive dust emissions. Rule 403 applies to any activity or human-made

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condition capable of generating fugitive dust and requires best available control measures to be applied to earth-moving and grading activities.

- Rule 445, Wood Burning Devices. In general, the rule prohibits new developments from the installation of wood-burning devices. This rule is intended to reduce the emission of particulate matter from wood-burning devices and applies to manufacturers and sellers of wood-burning devices, commercial sellers of firewood, and property owners and tenants that operate a wood-burning device.
- Rule 1113, Architectural Coatings. This rule serves to limit the VOCs content of architectural coatings used on projects in the South Coast AQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects in the South Coast AQMD must comply with the current VOC standards set in this rule.
- Rule 1403, Asbestos Emissions from Demolition/Renovation Activities. The purpose of this rule is to specify work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials (ACM). The requirements for demolition and renovation activities include asbestos surveying, notification, ACM removal procedures and time schedules, ACM handling and clean-up procedures, and storage, disposal, and landfilling requirements for asbestos-containing waste materials. All operators are required to maintain records, including waste shipment records, and are required to use appropriate warning labels, signs, and markings.

5.2.1.2 EXISTING CONDITIONS

The Proposed Project's Site is in the SoCAB, which includes all of Orange County and the nondesert portions of Los Angeles, Riverside, and San Bernardino counties. The SoCAB is in a coastal plain with connecting broad valleys and low hills and is bounded by the Pacific Ocean in the southwest quadrant, with high mountains forming the remainder of the perimeter. The region lies in the semipermanent high-pressure zone of the eastern Pacific. As a result, the climate is mild, tempered by cool sea breezes. This usually mild weather pattern is interrupted infrequently by periods of extremely hot weather, winter storms, and Santa Ana winds (South Coast AQMD 2005).

Meteorology

Temperature and Precipitation

The annual average temperature varies little throughout the SoCAB, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The climatological station nearest to the Proposed Project's Site with temperature data is the Santa Monica Pier Monitoring Station (ID 047953). The average low is reported at 49.2 °F in January, and the average high is 72.1°F in August (WRCC 2023).

In contrast to a very steady pattern of temperature, rainfall is seasonally and annually highly variable. Almost all rain falls from October through April. Summer rainfall is normally restricted to widely scattered

thundershowers near the coast, with slightly heavier shower activity in the east and over the mountains. Rainfall averages 12.62 inches per year in the vicinity of the area (WRCC 2023).

Humidity

Although the SoCAB has a semiarid climate, the air near the Earth's surface is typically moist because of a shallow marine layer. This "ocean effect" is dominant except for infrequent periods when dry, continental air is brought into the SoCAB by offshore winds. Periods of heavy fog are frequent, given the Air Basin's location along the coast. Low clouds, often referred to as high fog, are a characteristic climatic feature. Annual average humidity is 70 percent at the coast and 57 percent in the eastern portions of the SoCAB (South Coast AQMD 1993).

Wind

Wind patterns across the southern coastal region are characterized by westerly or southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Wind speed is somewhat greater during the dry summer months than during the rainy winter season.

Between periods of wind, periods of air stagnation may occur in the morning and evening hours. Air stagnation is one of the critical determinants of air quality conditions on any given day. During the winter and fall months, surface high-pressure systems over the SoCAB combined with other meteorological conditions can result in very strong, downslope Santa Ana winds. These winds normally continue a few days before predominant meteorological conditions are reestablished.

The mountain ranges to the east inhibit the eastward transport and diffusion of pollutants. Air quality in the SoCAB generally ranges from fair to poor and is similar to air quality in most of coastal Southern California. The entire region experiences heavy concentrations of air pollutants during prolonged periods of stable atmospheric conditions (South Coast AQMD 2005).

Inversions

In conjunction with the two characteristic wind patterns that affect the rate and orientation of horizontal pollutant transport, two distinct types of temperature inversions control the vertical depth through which pollutants are mixed. These inversions are the marine/subsidence inversion and the radiation inversion. The height of the base of the inversion at any given time is known as the "mixing height." The combination of winds and inversions are critical determinants in leading to the highly degraded air quality in summer and the generally good air quality in the winter in the Air Basin (South Coast AQMD 2005).

SoCAB Nonattainment Areas

The attainment status for the SoCAB is shown in Table 5.2-3, Attainment Status of Criteria Air Pollutants in the South Coast Air Basin.

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Table 5.2-3 Attainment Status of Criteria Air Pollutants in the South Coast Air Basin

Pollutant	State	Federal
Ozone – 1-hour	Extreme Nonattainment	No Federal Standard
Ozone – 8-hour	Extreme Nonattainment	Extreme Nonattainment
PM ₁₀	Serious Nonattainment	Attainment
PM _{2.5}	Nonattainment	Nonattainment ²
CO	Attainment	Attainment
NO ₂	Nonattainment (SR-60 Near Road only) ¹	Attainment/Maintenance
SO ₂	Attainment	Attainment
Lead	Attainment	Nonattainment (Los Angeles County only) ³
All others	Attainment/Unclassified	Attainment/Unclassified

Source: CARB 2023a

Multiple Air Toxics Exposure Study V

The Multiple Air Toxics Exposure Study (MATES) is a monitoring and evaluation study on existing ambient concentrations of TACs and the potential health risks from air toxics in the SoCAB. In April 2021, South Coast AQMD released the latest update to the MATES study, MATES V. The first MATES analysis, MATES I, began in 1986 but was limited because of the technology available at the time. Conducted in 1998, MATES II was the first MATES iteration to include a comprehensive monitoring program, an air toxics emissions inventory, and a modeling component. MATES III was conducted in 2004 to 2006, with MATES IV following in 2012 to 2013.

MATES V uses measurements taken during 2018 and 2019, with a comprehensive modeling analysis and emissions inventory based on 2018 data. The previous MATES studies quantified the cancer risks based on the inhalation pathway only. MATES V includes information on the chronic noncancer risks from inhalation and non-inhalation pathways for the first time. Cancer risks and chronic noncancer risks from MATES II through IV measurements have been reexamined using current Office of Environmental Health Hazards Assessment and CalEPA risk assessment methodologies and modern statistical methods to examine the trends over time.

The MATES V study showed that cancer risk in the SoCAB decreased to 454 in a million from 997 in a million in the MATES IV study. Overall, air toxics cancer risk in the SoCAB decreased by 54 percent since 2012 when

On February 21, 2019, CARB's Board approved the separation of the area that runs along State Route 60 corridor through portions of Riverside, San Bernardino, and Los Angeles counties from the remainder of the SoCAB for State nonattainment designation purposes. The Board designated this corridor as nonattainment. The remainder of the SoCAB remains in attainment for NO₂ (CARB 2019). CARB is proposing to redesignate SR-60 Near-Road Portion of San Bernardino, Riverside, and Los Angeles Counties in the SoCAB as attainment for NO₂ at the February 24, 2022 Board Hearing (CARB 2022c). This redesignation will not be official until the Office of Administrative Law (OAL) approves the rulemaking filed with the Secretary of State, expected in the fall of 2022 (South Coast AQMD 2022).

The SoCAB is pending a resignation request from nonattainment to attainment for the 24-hour federal PM_{2.5} standards. The 2021 PM_{2.5} Redesignation Request and Maintenance Plan demonstrates that the South Coast meets the requirements of the CAA to allow US EPA to redesignate the SoCAB to attainment for the 65 μg/m³ and 35 μg/m³ 24-hour PM_{2.5} standards. CARB has reviewed and adopted submit the 2021 PM_{2.5} Redesignation Request and Maintenance Plan to the US EPA as a revision to the California State Implementation Plan (SIP) (CARB 2021).

³ In 2010, the Los Angeles portion of the SoCAB was designated nonattainment for lead under the new 2008 federal AAQS as a result of large industrial emitters. Remaining areas for lead in the SoCAB are unclassified. However, lead concentrations in this nonattainment area have been below the level of the federal standard since December 2011 (South Coast AQMD 2012). CARB's SIP revision was submitted to the EPA for approval.

MATES IV was conducted. MATES V showed the highest risk locations near the Los Angeles International Airport and the Ports of Long Beach and Los Angeles. Diesel particulate matter (DPM) continues to be the major contributor to air toxics cancer risk (approximately 72 percent of the total cancer risk). Goods movement and transportation corridors have the highest cancer risk. Transportation sources account for 88 percent of carcinogenic air toxics emissions, and the remainder is from stationary sources, which include large industrial operations such as refineries and power plants as well as smaller businesses such as gas stations and chromeplating facilities. (South Coast AQMD 2021b).

Existing Ambient Air Quality

Existing levels of ambient air quality and historical trends and projections in the vicinity of the Proposed Project's Site are best documented by measurements taken by the South Coast AQMD. The Proposed Project's Site is located within Source Receptor Area (SRA) 2: Northwest Coastal LA County. The air quality monitoring station closest to the Proposed Project's Site is the Los Angeles-Westchester Parkway Monitoring Station, which is one of 31 monitoring stations South Coast AQMD operates and maintains within the SoCAB.⁸ Data from this station includes O₃, NO₂, and PM₁₀ and is summarized in Table 5.2-4, *Ambient Air Quality Monitoring Summary*. Data for PM_{2.5} is supplemented by the Los Angeles-North Main Street Monitoring Station. The data show that the area regularly exceeds the state and federal one-hour and eight-hour O₃ standards within the last five recorded years. Additionally, the area has regularly exceeded the state PM₁₀ standards and federal PM_{2.5} standard.

Table 5.2-4 Ambient Air Quality Monitoring Summary

	Number of Days Threshold Were Exceeded and Maximum Levels during Such Violations ^{1,2}						
Pollutant/Standard	2017	2018	2019	2020	2021		
Ozone (O ₃)							
State 1-Hour ≥ 0.09 ppm (days exceed threshold)	0	0	0	1	0		
State & Federal 8-hour ≥ 0.070 ppm (days exceed threshold)	0	0	0	2	0		
Max. 1-Hour Conc. (ppm)	0.086	0.074	0.082	0.117	0.059		
Max. 8-Hour Conc. (ppm)	0.070	0.065	0.067	0.074	0.049		
Nitrogen Dioxide (NO ₂)							
State 1-Hour ≥ 0.18 ppm (days exceed threshold)	0	0	0	0	0		
Federal 1-Hour ≥ 0.100 ppm (days exceed threshold)	0	0	0	0	0		
Max. 1-Hour Conc. (ppb)	0.0722	0.0596	0.0566	0.0597	0.0628		
Coarse Particulates (PM ₁₀)	-	-					
State 24-Hour > 50 µg/m³ (days exceed threshold)	0	0	2	1	0		
Federal 24-Hour > 150 µg/m³ (days exceed threshold)	0	0	0	0	0		
Max. 24-Hour Conc. (µg/m³)	46.5	45.2	62.8	55.5	33.3		

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⁸ Locations of the SRAs and monitoring stations are shown here: http://www.aqmd.gov/docs/default-source/default-document-library/map-of-monitoring-areas.pdf.

Table 5.2-4 Ambient Air Quality Monitoring Summary

	Number of Days Threshold Were Exceeded and Maximum Levels during Such Violations ^{1,2}				
Pollutant/Standard	2017 2018 2019 2020 2021				
Fine Particulates (PM _{2.5})					
Federal 24-Hour > 35 µg/m³ (days exceed threshold)	6 6 1 12 13				
Max. 24-Hour Conc. (μg/m³)	54.9 61.4 43.5 175.0 61.0				

Source: CARB 2023c.

Notes: ppm = parts per million; ppb = parts per billion; $\mu g/m^3$ = micrograms per cubic meter; * = Data not available

Existing Emissions

The existing McKinley ES campus includes 60,078 square feet of operational school facilities including buildings, outdoor structures, and student areas, playgrounds and playfields, and parking areas. The existing elementary school operations currently generate criteria air pollutant emissions from area sources (e.g., consumer cleaning products, landscaping equipment, and VOC emissions from paints), energy consumption (e.g., natural gas used for cooking, heating, etc.), and mobile sources (employee, student, and vendor vehicle trips).

Sensitive Receptors

Some land uses are considered more sensitive to air pollution (i.e., TACs) than others due to the types of population groups or activities involved. Sensitive population groups include children, the elderly, the acutely ill, and the chronically ill, especially those with cardiorespiratory diseases.

Residential areas are also considered sensitive to air pollution because residents (including children and the elderly) tend to be at home for extended periods of time, resulting in sustained exposure to pollutants. Other sensitive receptors include retirement facilities, hospitals, and schools. Recreational land uses are considered moderately sensitive to air pollution. Although exposure periods are generally short, exercise places a high demand on respiratory functions, which can be impaired by air pollution. In addition, noticeable air pollution can detract from the enjoyment of recreation. Industrial, commercial, retail, and office areas are considered the least sensitive to air pollution. Exposure periods are relatively short and intermittent because the majority of workers tend to stay indoors most of the time. In addition, the workforce is generally the healthiest segment of the population. The nearest receptors are the McKinley ES students and the single- and multi-family residences to the northwest, northeast, and southwest of the Proposed Project's Site, along Arizona Avenue, Chelsea Avenue, and along 23rd Court, respectively.

5.2.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would have a significant effect on the environment with respect to air quality if the project would:

Data for O₃, NO₂, and PM₁₀ obtained from the Los Angeles-Westchester Parkway Monitoring Station. Data for PM_{2.5} obtained from the Los Angeles-North Main Street Monitoring Station.

² Most recent data available as of January 2023.

- AQ-1 Conflict with or obstruct implementation of the applicable air quality plan.
- AQ-2 Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.
- AQ-3 Expose sensitive receptors to substantial pollutant concentrations.
- AQ-4 Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The IS/NOP, included as Appendix B to this DEIR, substantiates that the impacts associated with the following thresholds would be less than significant; therefore, this impact will not be further addressed in this DEIR:

Threshold AQ-4

5.2.2.1 SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT THRESHOLDS

South Coast AQMD has established thresholds of significance for air quality for construction activities and project operation in the SoCAB, as shown in Table 5.2-5, *South Coast AQMD Significance Thresholds*. The table lists thresholds that are applicable for all projects uniformly, regardless of size or scope. As discussed above, there is growing evidence that although ultrafine particulate matter contributes a very small portion of the overall atmospheric mass concentration, it represents a greater proportion of the health risk from PM. However, because the EPA and CARB have not adopted AAQS to regulate ultrafine particulate matter, South Coast AQMD has not developed thresholds for it.

Table 5.2-5 South Coast AQMD Significance Thresholds

Construction Phase	Operational Phase
75 lbs./day	55 lbs./day
550 lbs./day	550 lbs./day
100 lbs./day	55 lbs./day
150 lbs./day	150 lbs./day
150 lbs./day	150 lbs./day
	75 lbs./day 550 lbs./day 100 lbs./day 150 lbs./day

Health Outcomes Associated with the AQMD Regional Significance Thresholds

Projects that exceed the AQMD's regional significance threshold contribute to the nonattainment designation of the SoCAB. The attainment designations are based on the AAQS, which are set at levels of exposure that are determined to not result in adverse health effects. Exposure to fine particulate pollution and ozone causes myriad health impacts, particularly to the respiratory and cardiovascular systems:

- Increases cancer risk (PM_{2.5}, TACs)
- Aggravates respiratory disease (O₃, PM_{2.5})

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- Increases bronchitis (O₃, PM_{2.5})
- Causes chest discomfort, throat irritation, and increased effort to take a deep breath (O₃)
- Reduces resistance to infections and increases fatigue (O₃)
- Reduces lung growth in children (PM_{2.5})
- Contributes to heart disease and heart attacks (PM_{2.5})
- Contributes to premature death (O₃, PM_{2.5})
- Contributes to lower birth weight in newborns (PM_{2.5}) (South Coast AQMD 2015a)

Exposure to fine particulates and ozone aggravates asthma attacks and can amplify other lung ailments such as emphysema and chronic obstructive pulmonary disease. Exposure to current levels of PM_{2.5} is responsible for an estimated 4,300 cardiopulmonary-related deaths per year in the SoCAB. In addition, University of Southern California scientists, in a landmark children's health study, found that lung growth improved as air pollution declined for children aged 11 to 15 in five communities in the SoCAB (South Coast AQMD 2015b).

South Coast AQMD is the primary agency responsible for ensuring the health and welfare of sensitive individuals exposed to elevated concentrations of air pollutants in the SoCAB and has established thresholds that would be protective of these individuals. To achieve the health-based standards established by the EPA, South Coast AQMD prepares an AQMP that details regional programs to attain the AAQS. Mass emissions thresholds shown in Table 5.2-5 are not correlated with concentrations of air pollutants but contribute to the cumulative air quality impacts in the SoCAB. These thresholds are based on the trigger levels for the federal New Source Review Program, which was created to ensure projects are consistent with attainment of health-based federal AAQS. Regional emissions from a single project do not trigger a regional health impact, and it is speculative to identify how many more individuals in the air basin would be affected by the health effects listed previously. Projects that do not exceed the South Coast AQMD regional significance thresholds in Table 5.2-5 would not violate any air quality standards or contribute substantially to an existing or projected air quality violation.

If projects exceed the emission levels presented in Table 5.2-5, then those emissions would cumulatively contribute to the nonattainment status of the air basin and would contribute to elevating health effects associated with these criteria air pollutants. Known health effects related to ozone include worsening of bronchitis, asthma, and emphysema and a decrease in lung function. Health effects associated with particulate matter include premature death of people with heart or lung disease, nonfatal heart attacks, irregular heartbeat, decreased lung function, and increased respiratory symptoms. Reducing emissions would contribute to reducing possible health effects related to criteria air pollutants. However, for projects that exceed the emissions in Table 5.2-5, it is speculative to determine how exceeding the regional thresholds would affect the number of days the region is in nonattainment, because mass emissions are not correlated with concentrations of emissions or how many additional individuals in the air basin would be affected by the health effects cited previously.

South Coast AQMD has not provided methodology to assess the specific correlation between mass emissions generated and the effect on health to address the issue raised in *Sierra Club v. County of Fresno* (Friant Ranch, L.P.) (2018) 6 Cal.5th 502, Case No. S21978. South Coast AQMD currently does not have methodologies that would provide the District with a consistent, reliable, and meaningful analysis to correlate specific health

impacts that may result from a Proposed Project's mass emissions. Ozone concentrations are dependent on a variety of complex factors, including the presence of sunlight and precursor pollutants, natural topography, nearby structures that cause building downwash, atmospheric stability, and wind patterns. Because of the complexities of predicting ground-level ozone concentrations in relation to the National and California AAQS, and the absence of modeling tools that could provide statistically valid data and meaningful additional information regarding health effects from criteria air pollutants generated by individual projects, it is not possible to link specific health risks to the magnitude of emissions exceeding the significance thresholds. However, if a project in the SoCAB exceeds the regional significance thresholds, the project could contribute to an increase in health effects in the basin until the attainment standards are met in the SoCAB.

CO Hotspots

Areas of vehicle congestion have the potential to create pockets of CO called hotspots. These pockets have the potential to exceed the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm. Because CO is produced in greatest quantities from vehicle combustion and does not readily disperse into the atmosphere, adherence to AAQSs is typically demonstrated through an analysis of localized CO concentrations. Hotspots are typically produced at intersections, where traffic congestion is highest because vehicles queue for longer periods and are subject to reduced speeds. With the turnover of older vehicles and introduction of cleaner fuels, as well as implementation of control technology on industrial facilities, CO concentrations in the SoCAB and the state have steadily declined.

In 2007, the SoCAB was designated in attainment for CO under both the California AAQS and National AAQS. The CO hotspot analysis conducted for attainment by South Coast AQMD did not predict a violation of CO standards at the busiest intersections in Los Angeles during the peak morning and afternoon periods. ¹⁰ As identified in South Coast AQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SoCAB in years before the 2007 redesignation were a result of unusual meteorological and topographical conditions and not of congestion at a particular intersection. Under existing and future vehicle emission rates, a project would have to increase traffic volumes at a single intersection to more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—to generate a significant CO impact (BAAQMD 2017). ¹¹

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In April 2019, the Sacramento Metropolitan Air Quality Management District (SMAQMD) published an Interim Recommendation on implementing Sierra Club v. County of Fresno (2018) 6 Cal.5th 502 ("Friant Ranch") in the review and analysis of proposed projects under CEQA in Sacramento County. Consistent with the expert opinions submitted to the court in Friant Ranch by the San Joaquin Valley Air Pollution Control District (SJVAPCD) and South Coast AQMD, the SMAQMD guidance confirms the absence of an acceptable or reliable quantitative methodology that would correlate the expected criteria air pollutant emissions of projects to likely health consequences for people from project-generated criteria air pollutant emissions. The SMAQMD guidance explains that while it is in the process of developing a methodology to assess these impacts, lead agencies should follow the Friant Court's advice to explain in meaningful detail why this analysis is not yet feasible. Since this interim memorandum SMAQMD has provided methodology to address health impacts. However, a similar analysis is not available for projects within the South Coast AQMD region.

The four intersections were: Long Beach Boulevard and Imperial Highway; Wilshire Boulevard and Veteran Avenue; Sunset Boulevard and Highland Avenue; and La Cienega Boulevard and Century Boulevard. The busiest intersection evaluated (Wilshire and Veteran) had a daily traffic volume of approximately 100,000 vehicles per day with LOS E in the morning peak hour and LOS F in the evening peak hour.

¹¹ The CO hotspot analysis refers to the modeling conducted by the Bay Area Air Quality Management District for its CEQA Guidelines because it is based on newer data and considers the improvement in mobile-source CO emissions. Although

Localized Significance Thresholds

South Coast AQMD identifies localized significance thresholds (LST), shown in Table 5.2-6, South Coast AQMD Localized Significance Thresholds. Emissions of NO₂, CO, PM₁₀, and PM_{2.5} generated at a project site could expose sensitive receptors to substantial concentrations of criteria air pollutants. Off-site mobile-source emissions are not included in the LST analysis. A project would generate a significant impact if it generates emissions that, when added to the local background concentrations, violate the AAQS.

Table 5.2-6 South Coast AQMD Localized Significance Thresholds

Air Pollutant (Relevant AAQS)	Concentration
1-Hour CO Standard (CAAQS)	20 ppm
8-Hour CO Standard (CAAQS)	9.0 ppm
1-Hour NO ₂ Standard (CAAQS)	0.18 ppm
Annual NO ₂ Standard (CAAQS)	0.03 ppm
24-Hour PM ₁₀ Standard – Construction (South Coast AQMD) ¹	10.4 µg/m³
24-Hour PM _{2.5} Standard – Construction (South Coast AQMD) ¹	10.4 µg/m³
24-Hour PM ₁₀ Standard – Operation (South Coast AQMD) ¹	2.5 μg/m³
24-Hour PM _{2.5} Standard – Operation (South Coast AQMD) ¹	2.5 μg/m³
Annual Average PM ₁₀ Standard (South Coast AQMD) ¹	1.0 μg/m³

Source: South Coast AQMD 2019.

ppm – parts per million; µg/m³ – micrograms per cubic meter

To assist lead agencies, South Coast AQMD developed screening-level LSTs to back-calculate the mass amount (pounds per day) of emissions generated on-site that would trigger the levels shown in Table 5.2-6 for projects under five acres. These "screening-level" LST tables are the LSTs for all projects of five acres and less and are based on emissions over an 8-hour period; however, they can be used as screening criteria for larger projects to determine whether or not dispersion modeling may be required.

The construction screening-level LSTs in SRA 2 are shown in Table 5.2-7, South Coast AQMD Screening-Level Localized Significance Thresholds for Construction. For construction activities, LSTs are based on the acreage disturbed per day associated with the equipment used, up to a project site's maximum disturbed acreage (South Coast AQMD 2011). The different types of construction activities would require different equipment mixes, resulting in multiple LSTs. On-site sensitive receptors include the McKinley Elementary School students. The nearest off-site sensitive receptors are the single- and multi-family residences to the northwest, northeast, and southwest

Threshold is based on South Coast AQMD Rule 403. Since the SoCAB is in nonattainment for PM₁₀ and PM_{2.5}, the threshold is established as an allowable change in concentration. Therefore, background concentration is irrelevant.

meteorological conditions in the Bay Area differ from those in the Southern California region, the modeling conducted by BAAQMD demonstrates that the net increase in peak hour traffic volumes at an intersection in a single hour would need to be substantial. This finding is consistent with the CO hotspot analysis South Coast AQMD prepared as part of its 2003 AQMP to provide support in seeking CO attainment for the SoCAB. Based on the analysis prepared by South Coast AQMD, no CO hotspots were predicted for the SoCAB. As noted in the preceding footnote, the analysis included some of Los Angeles' busiest intersections, with daily traffic volumes of 100,000 or more peak hour vehicle trips operating at LOS E and F.

of the Proposed Project's Site, along Arizona Avenue, Chelsea Avenue, and along 23rd Court. The closest of these receptors would be the residents along 23rd Court, who are approximately 20 feet from the campus. The screening-level LSTs reflect the thresholds for sensitive receptors within 82 feet (25 meters) of a project site.

Table 5.2-7 South Coast AQMD Screening-Level Localized Significance Thresholds for Construction

		Thres	shold (lbs./day)	
Acreage Disturbed	Nitrogen Oxides (NO _x)	Carbon Monoxide (CO)	Coarse Particulates (PM ₁₀)	Fine Particulates (PM _{2.5})
≤1.00 Acre Disturbed per Day	103	562	4.00	3.00
1.35 Acres Disturbed per Day	118	655	4.70	3.35
1.38 Acres Disturbed per Day	120	661	4.75	3.37
1.50 Acres Disturbed per Day	125	694	5.00	3.50
1.88 Acres Disturbed per Day	142	794	5.75	3.87
1.97 Acres Disturbed per Day	146	819	5.94	3.97
2.00 Acres Disturbed per Day	147	827	6.00	4.00
2.82 Acres Disturbed per Day	167	1,019	7.91	4.55

Source: South Coast AQMD 2008, 2011.

Note: The screening-level LSTs are based on receptors within 82 feet (28 meters) in SRA 2

Health Risk

Whenever a project would require use of chemical compounds that have been identified in South Coast AQMD Rule 1401, placed on CARB's air toxics list pursuant to AB 1807, or placed on the EPA's National Emissions Standards for Hazardous Air Pollutants, a health risk assessment is required by the South Coast AQMD. Table 5.2-8, South Coast AQMD Toxic Air Contaminants Incremental Risk Thresholds, lists the TAC incremental risk thresholds for operation of a project. The type of land uses that typically generate substantial quantities of criteria air pollutants and TACs from operations include industrial (stationary sources) and warehousing (truck idling) land uses (CARB 2005). School uses do not use substantial quantities of TACs; thus these thresholds are typically applied to new industrial projects only. These thresholds are applied to the Proposed Project's construction due to the scope and nature of the Proposed Project. Additionally, the purpose of this environmental evaluation is to identify the significant effects of the Proposed Project on the environment, not the significant effects of the environment on the Proposed Project (California Building Industry Association v. Bay Area Air Quality Management District (2015) 62 Cal.4th 369 (Case No. S213478)).

Table 5.2-8 South Coast AQMD Toxic Air Contaminants Incremental Risk Thresholds

Maximum Incremental Cancer Risk	≥ 10 in 1 million
Cancer Burden (in areas ≥ 1 in 1 million)	> 0.5 excess cancer cases
Hazard Index (project increment)	≥ 1.0
Source: South Coast AQMD 2019.	

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5.2.3 Environmental Impacts

5.2.3.1 METHODOLOGY

This air quality evaluation was prepared in accordance with the requirements of CEQA to determine if significant air quality impacts are likely to occur in conjunction with the Proposed Project. South Coast AQMD's CEQA Air Quality Handbook (Handbook) and updates on its website are intended to provide local governments with guidance for analyzing and mitigating project-specific air quality impacts. The Handbook provides standards, methodologies, and procedures for conducting air quality analyses in environmental impact reports (EIRs), and they were used in this analysis.

The Proposed Project's Design Features

The Proposed Project would include features that would reduce criteria air pollutant emissions:

- **PDF AQ-1.** New buildings are required to achieve the current California Building Energy and Efficiency Standards (Title 24, Part 6) and CALGreen (Title 24, Part 11).
- **PDF AQ-2.** Construction activities will be conducted in compliance with California Code of Regulations Title 13 Section 2499, which requires that nonessential idling of construction equipment be restricted to five minutes or less.
- **PDF AQ-3.** Construction activities will also be conducted in compliance with any applicable South Coast AQMD rules and regulations, including Rule 403 for fugitive dust control, Rule 402 for nuisance, and Rule 1113 for limiting volatile organic compound content of architectural coating.
- **PDF AQ-4.** The District has committed to the use of off-road construction equipment that meets the US EPA Tier 4 Final emissions standards for off-road diesel-powered construction equipment with more than 25 horsepower.

Criteria Air Pollutant Emissions

Air pollutant emissions are calculated using the California Emissions Estimator Model (CalEEMod), version 2020.4 (CAPCOA 2021). CalEEMod compiles an emissions inventory of construction (fugitive dust, off-gas emissions, on-road emissions, and off-road emissions), area sources, indirect emissions from energy use, mobile sources, indirect emissions from waste disposal (annual only), and indirect emissions from water/wastewater (annual only). Criteria air pollutant emissions modeling is included in Appendix D of this DEIR. The calculated emissions of the Proposed Project are compared to thresholds of significance for individual projects as shown in Table 5.2-5 using the South Coast AQMD Handbook. The following is a summary of the assumptions used for the Proposed Project analysis.

Construction Phase

Construction would entail building and asphalt demolition and debris haul, site preparation, rough grading, fine grading, utilities trenching, building construction, paving, architectural coating, and finishing and landscaping

over 5.7 acres of the 6.48-acre Proposed Project's Site. ¹² The Proposed Project was modeled over three construction phases, with Phase 1 occurring over a period of 18 months between June 2023 and December 2024, Phase 2 occurring over 18 months between June 2025 and December 2026, and Phase 3 occurring over 21 months from June 2028 and March 2030. ¹³

Construction Health Risk Assessment

A construction health risk assessment (HRA) for TACs associated with construction equipment exhaust was prepared for the Proposed Project. Sources evaluated in the HRA include off-road construction equipment and heavy-duty diesel trucks along the truck haul route. Modeling is based on the EPA's AERMOD, v. 10.2.1, air dispersion modeling program and the latest HRA guidance from the Office of Environmental Health Hazard Assessment (OEHHA) to estimate excess lifetime cancer risks and chronic noncancer hazard indices at the nearest maximum exposed off-site sensitive receptors (OEHHA 2015).

DPM emissions were based on the CalEEMod construction model runs using annual exhaust PM₁₀ construction emissions presented in pounds (lbs.) per day. Construction of the Proposed Project would occur continuously over a total cumulative duration of approximately 4.73 years (1,235 workdays). Phase 1 construction would occur over 18 months between June 2023 and December 2024, Phase 2 construction would occur over 18 months between June 2025 and December 2026, and Phase 3 construction would occur over 21 months from June 2028 and March 2030. The average daily emission rates from construction equipment used during the Proposed Project were determined by dividing the annual average emissions for each construction year by the number of construction days per year for each calendar year of construction. The off-site hauling emission rates were adjusted to evaluate localized emissions from the haul route distance within 1,000 feet of the Proposed Project's Site.

Air dispersion modeling using the US EPA's AERMOD program was conducted to assess the impact of emitted compounds on sensitive receptors. The model is a steady-state Gaussian plume model and is an approved model by South Coast AQMD for estimating ground level impacts from point and fugitive sources in simple and complex terrain. Meteorological data obtained from the South Coast AQMD for the nearest representative meteorological station (Santa Monica Airport) with the five latest available years (2012 to 2016) of record were used to represent local weather conditions and prevailing winds.

For all modeling runs, a unit emission rate of 1 gram per second was used. As Tier 4 construction equipment will be used, this was assumed in the model. The unit emission rates were proportioned over the poly-area sources for on-site construction emissions and divided between the volume sources for off-site hauling emissions. The maximum modeled concentrations at each sensitive receptor were then multiplied by the construction emission rates to obtain the maximum concentrations at the off-site and on-site maximum exposed receptors (MER). The calculated total cancer risk conservatively assumes that the risk for the MER consists of a pregnant woman in the third trimester that subsequently gives birth to an infant during the construction period spanning from 2023 through 2030; therefore, all calculated risk values were multiplied by

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Proposed Project modeling shows a total of 6.14 acres disturbed on the McKinley ES campus as there is overlap in area where each construction phase would occur..

¹³ Although the exact timing for implementation of Phases 2 and 3 is currently unknown, to provide a realistic scenario, the analysis assumes that construction activities for Phases 1 through 3 would not overlap.

a factor of 10 for the first 2.25 years of construction and by a factor of 3 for the remaining years. In addition, it was conservatively assumed that the residents were outdoors 8 hours a day, 260 construction days per year, and exposed to all of the daily construction emissions.

Operational Phase

Following completion of construction over the three construction phases, the campus would operate in a manner similar to existing conditions. In addition, because enrollment, staffing, and types of activities used by both the school and the community would operate in the same manner as existing conditions, the Proposed Project would not result in an increase in mobile emissions, which generally contribute the majority of criteria air pollutant emissions associated with a project. As such, operation of the Proposed Project was described qualitatively.

5.2.3.2 IMPACT ANALYSIS

The following impact analysis addresses the thresholds of significance for which the Initial Study/Notice of Preparation disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.2-1: The Proposed Project would not conflict with or obstruct implementation of the applicable air quality plan (the South Coast AQMD AQMP). [Threshold AQ-1]

A consistency determination with the AQMP plays an important role in local agency project review by linking local planning and individual projects to the AQMP. It fulfills the CEQA goal of informing decision makers of the environmental effects of the Proposed Project under consideration early enough to ensure that air quality concerns are fully addressed. It also provides the local agency with ongoing information as to whether they are contributing to the clean air goals in the AQMP.

The regional emissions inventory for the SoCAB is compiled by South Coast AQMD and SCAG. Regional population, housing, and employment projections developed by SCAG are based, in part, on cities' general plan land use designations. These projections form the foundation for the emissions inventory of the AQMP. These demographic trends are incorporated into SCAG's Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) to determine priority transportation projects and vehicle miles traveled in the SCAG region. Because the AQMP strategy is based on projections from local general plans, projects that are consistent with the local general plan are considered consistent with the air-quality-related regional plan.

Changes in population, housing, or employment growth projections have the potential to affect SCAG's demographic projections and therefore the assumptions in South Coast AQMD's AQMP. Based on the scope and nature of the Proposed Project in that it would primarily result in the removal of temporary classrooms and replace them with permanent structures, and that student capacity and staffing would not increase, the Proposed Project would not substantially affect housing, employment, or population projections within the region. Due to the nature of the Proposed Project, it would not result in new long-term employment. Construction activities associated with the Proposed Project would result in short-term employment only and would end upon project completion.

The long-term emissions generated by the Proposed Project would not produce criteria air pollutants that exceed the South Coast AQMD significance thresholds for Proposed Project operations (see Impact 5.2-3). South Coast AQMD's significance thresholds identify whether a project has the potential to cumulatively contribute to the SoCAB's nonattainment designations. Because the Proposed Project would not exceed the South Coast AQMD's regional significance thresholds (see Impact 5.2-2 and Impact 5.2-3) and growth is consistent with regional growth projections, the Proposed Project would not interfere with South Coast AQMD's ability to achieve the long-term air quality goals identified in the AQMP. Therefore, the Proposed Project would not conflict nor obstruct implementation of the AQMP, and impacts would be **less than significant**.

Impact 5.2-2: Construction and operation associated with the Proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant in exceedance of South Coast AQMD's threshold criteria. [Threshold AQ-2]

Impacts associated with construction activities over the three project phases (up to eight years), as well as long-term operational emissions are discussed below.

Construction

Construction activities produce combustion emissions from various sources, such as on-site heavy-duty construction vehicles, vehicles hauling materials to and from the site, and motor vehicles transporting the construction crew. As stated above in PDF AQ-4, the District requires use of Tier 4 equipment for equipment 25 horsepower and higher, and this is assumed in the construction emissions analysis. Construction of the Proposed Project would generate criteria air pollutants associated with construction equipment exhaust and fugitive dust from building and asphalt demolition and debris haul, site preparation, rough grading, fine grading, utilities trenching, building construction, paving, architectural coating, and finishing and landscaping of the Proposed Project's Site during each of the three construction phases. Air pollutant emissions from construction activities on-site would vary daily as construction activity levels change. An estimate of maximum daily construction emissions for the Proposed Project is provided in Table 5.2-9, Maximum Daily Regional Construction Emissions. The table shows the highest daily emissions that would be generated over the anticipated development period. Although the exact timing for implementation of Phases 2 and 3 is currently unknown, to provide a realistic scenario, the analysis assumes that construction activities for Phases 1 through 3 would not overlap. The analysis assumes Phase 1 construction activities would commence in 2023 and end in 2024.

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Table 5.2-9 Maximum Daily Regional Construction Emissions

				(lbs./day) ^{1, 2}		
Construction Phase	VOC	NOx	CO	SO ₂	PM ₁₀	PM _{2.5}
Year 2023			T		1	1
Phase 1 Building and Asphalt Demolition and Debris Haul	1	6	8	<1	1	<1
Phase 1 Building and Asphalt Demolition and Debris Haul, Site Preparation	1	12	18	<1	2	1
Phase 1 Site Preparation	1	7	10	<1	1	<1
Phase 1 Site Preparation and Rough Grading	3	24	27	<1	4	3
Phase 1 Rough Grading	2	18	17	<1	4	2
Phase 1 Fine Grading	2	18	17	<1	4	2
Phase 1 Fine Grading and Utilities Trenching	2	19	19	<1	4	2
Phase 1 Utilities Trenching	<1	1	1	<1	<1	<1
Phase 1 Utilities Trenching and Building Construction (2023)	1	11	12	<1	1	<1
Phase 1 Building Construction (2023)	1	10	11	<1	1	<1
Year 2024						
Phase 1 Building Construction (2024)	1	10	11	<1	1	<1
Phase 1 Building Construction (2024), Paving, and Architectural Coating	10	15	17	<1	1	1
Phase 1 Building Construction (2024), Paving, Architectural Coating, and Finishing/Landscaping	10	15	18	<1	1	1
Year 2025			<u> </u>	<u> </u>	<u>'</u>	<u> </u>
Phase 2 Building and Asphalt Demolition and Debris Haul	1	6	10	<1	1	<1
Phase 2 Building and Asphalt Demolition and Debris Haul, Site Preparation	1	12	20	<1	1	1
Phase 2 Site Preparation	1	6	10	<1	<1	<1
Phase 2 Site Preparation and Rough Grading	2	20	25	<1	4	2
Phase 2 Rough Grading	2	15	15	<1	3	2
Phase 2 Fine Grading	2	15	15	<1	3	2
Phase 2 Fine Grading and Utilities Trenching	2	15	17	<1	3	2
Phase 2 Utilities Trenching	<1	1	1	<1	<1	<1
Phase 2 Utilities Trenching and Building Construction (2025)	1	11	13	<1	<1	<1
Phase 2 Building Construction (2025)	1	11	12	<1	<1	<1
Year 2026		<u>L</u>	<u>L</u>	L	L	<u>L</u>
Phase 2 Building Construction (2026)	1	10	12	<1	<1	<1
Phase 2 Building Construction (2026), Paving, and Architectural Coating	4	14	18	<1	1	<1
Phase 2 Building Construction (2026), Paving, Architectural Coating, and Finishing/Landscaping	4	15	19	<1	1	<1
Year 2028						
Phase 3 Building and Asphalt Demolition and Debris Haul	1	5	10	<1	1	<1
Phase 3 Building and Asphalt Demolition and Debris Haul, Site Preparation	1	10	19	<1	2	1
Phase 3 Site Preparation	1	5	10	<1	<1	<1
Phase 3 Site Preparation and Rough Grading	2	17	24	<1	4	2

Table 5.2-9 Maximum Daily Regional Construction Emissions

	Pollutants (lbs./day) ^{1, 2}						
Construction Phase	VOC	NOx	CO	SO ₂	PM ₁₀	PM _{2.5}	
Phase 3 Rough Grading	1	12	15	<1	4	2	
Phase 3 Fine Grading	1	12	15	<1	4	2	
Phase 3 Fine Grading and Utilities Trenching	1	13	16	<1	4	2	
Phase 3 Utilities Trenching	٧	1	1	<1	<1	<1	
Phase 3 Utilities Trenching and Building Construction (2028)	1	9	12	<1	<1	<1	
Phase 3 Building Construction (2028)	1	8	11	<1	<1	<1	
Year 2029	_	_	_	•	<u>-</u>		
Phase 3 Building Construction (2029)	1	8	10	<1	<1	<1	
Year 2030	-	-	-	-	-	<u>-</u>	
Phase 3 Building Construction (2030)	1	8	10	<1	<1	<1	
Phase 3 Building Construction (2030), Paving, and Architectural Coating	8	11	17	<1	1	<1	
Phase 3 Building Construction (2030), Paving, Architectural Coating, and Finishing/Landscaping	8	12	18	<1	1	<1	
Maximum Daily Construction Emissions	•	-	-	•	•	•	
Maximum Daily Emissions	10	24	27	<1	4	3	
South Coast AQMD Regional Construction Threshold	75	100	550	150	150	55	
Significant?	No	No	No	No	No	No	

Source: CalEEMod Version 2022.1.0. Highest winter or summer emissions are reported.

The SoCAB is designated nonattainment for O₃ and PM_{2.5} under the California and National AAQS, nonattainment for PM₁₀ under the California AAQS,¹⁴ and nonattainment for lead (Los Angeles County only) under the National AAQS. According to South Coast AQMD methodology, any project that does not exceed or can be mitigated to less than the daily threshold values would not add significantly to a cumulative impact (South Coast AQMD 1993). As shown in Table 5.2-9, the maximum daily emissions for VOC, NOx, CO, SO₂, PM₁₀, and PM_{2.5} from construction-related activities would be less than their respective South Coast AQMD regional significance threshold values. Projects that do not exceed the South Coast AQMD regional significance thresholds would not result in an incremental increase in health impacts in the SoCAB from project-related increases in criteria air pollutants. Therefore, short-term air quality impacts from Proposed Project-related construction activities would be **less than significant**.

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Based on the preliminary information provided by the District. Where specific information regarding Proposed Project-related construction activities was not available, construction assumptions were based on CalEEMod defaults, which are based on construction surveys conducted by South Coast AQMD of construction equipment.

Includes implementation of PDF AQ-1 through AQ—3, which includes fugitive dust control measures required by South Coast AQMD under Rule 403, including watering disturbed areas a minimum of two times per day, reducing speed limit to 15 miles per hour on unpaved surfaces, replacing ground cover quickly, and street sweeping with Rule 1186–compliant sweepers. In addition, PDF AQ-4 requires use of Tier 4 construction equipment for equipment for equipment 25 horsepower and higher.

Portions of the SoCAB along SR-60 in Los Angeles, Riverside, and San Bernardino Counties are proposed as nonattainment for NO₂ under the California AAQS.

Operation

Implementation of the Proposed Project would result in the redevelopment and modernization of the McKinley Elementary School campus. The new, permanent, 24,410-square-foot, two-story classroom, replacing portable classrooms (10,560 sf), and the new 26,500-square-foot two-story K/kindergarten/elementary building would result in increased building area. However, the Proposed Project would not result in an increase in capacity and would not change attendance boundaries. Because student capacity and staffing would not increase or change after full buildout, the Proposed Project would not result in an increase in emissions from mobile sources, criteria air pollutant emissions from the Proposed Project would be minimal. In addition, emissions from building natural gas use would be minimized because the older buildings on the campus, which were constructed prior to modern building energy codes, would be replaced with newer, more energy-efficient buildings that meet the current California Building and Energy Efficiency Standards. In addition, the Proposed buildings would be equipped to accommodate the installation of solar voltaic systems, which would off-set building energy use. As seen in Table 5.2-10, long-term operation of the Proposed Project would not generate emissions that exceed the South Coast AQMD regional significance thresholds. Projects that do not exceed the South Coast AQMD regional significance thresholds would not result in an incremental increase in health impacts in the SoCAB from project-related increases in criteria air pollutants. Therefore, impacts to the regional air quality associated with operation of the Proposed Project would be less than significant.

Table 5.2-10 Maximum Daily Regional Operation Emissions

	<u> </u>	Maximum Daily Emissions (lbs./Day)							
Source	VOC	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}			
Mobile	0	0	0	0	0	0			
Area	3	<1	4	<1	<1	<1			
Energy	<1	1	<1	<1	<1	<1			
Total	3	1	5	<1	<1	<1			
South Coast AQMD Regional Threshold	55	55	550	150	150	550			
Exceeds Threshold?	No	No	No	No	No	No			

Source: CalEEMod Version 2022.1. Highest winter or summer emissions are reported. Notes: lbs = Pounds

Impact 5.2-3: The Proposed Project would not expose sensitive receptors to substantial pollutant concentrations during construction or operation. [Threshold AQ-3]

This impact analysis describes changes in localized impacts from short-term construction and long-term activities. The Proposed Project could expose sensitive receptors to elevated pollutant concentrations during construction activities if it would cause or contribute significantly to elevated levels. Unlike the mass of emissions shown in the regional emissions analysis shown in Table 5.2-9, which are described in pounds per day, localized concentrations refer to an amount of pollutant in a volume of air (ppm or µg/m³) and can be correlated to potential health effects.

Because student capacity is not anticipated to increase, the Proposed Project would not result in additional trips, and therefore there would be no change in mobile emissions.

This impact analysis also describes changes in localized impacts from long-term operational activities. The Proposed Project could expose sensitive receptors to elevated pollutant concentrations during operation of the Proposed Project if it would cause or contribute significantly to elevated levels. However, the Proposed Project would not result in significant changes to the Proposed Project's Site's current operations for elementary school use.

Construction

Construction-Phase Localized Significance Thresholds

Screening-level LSTs (pounds per day) are the amount of project-related mass emissions at which localized concentrations (ppm or µg/m³) could exceed the AAQS for criteria air pollutants for which the SoCAB is designated nonattainment. They are based on the acreage disturbed and distance to the nearest sensitive receptor. Screening-level LSTs are based on the Proposed Project's Site's size and distance to the nearest sensitive receptor. Thresholds are based on the California AAQS, which are the most stringent, established to provide a margin of safety in the protection of the public health and welfare. They are designed to protect sensitive receptors most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. On-site sensitive receptors would include the McKinley Elementary School students. The nearest off-site sensitive receptors are the single- and multi-family residences to the northwest, northeast, and southwest of the Proposed Project's Site, along Arizona Avenue, Chelsea Avenue, and along 23rd Court. The closest of these receptors would be the residents along 23rd Court, who are approximately 20 feet from the campus.

Table 5.2-11, Maximum Daily On-Site Localized Construction Emissions, shows the maximum daily construction emissions (pounds per day) generated during on-site construction activities compared with the South Coast AQMD's screening-level LSTs, for non-sensitive receptors within 82 feet (25 meters). The on-site PM₁₀ and PM_{2.5} emissions shown represent the total on-site particulate matter emissions from vehicle exhaust and fugitive dust. On-site NO_X emissions are from off-road equipment exhaust. As shown in the Table 5.2-10, construction of the Proposed Project would not generate construction-related on-site emissions that would exceed the screening-level LSTs and impacts would be **less than significant**.

Table 5.2-11 Maximum Daily On-Site Localized Construction Emissions

	Pollutants (lbs./day) ^{1,2}					
	NO _x	CO	PM ₁₀ ³	PM _{2.5} ³		
South Coast AQMD ≤1.00-Acre LST	103	562	4.00	3.00		
Phase 1 Utilities Trenching	1	1	0.03	0.03		
Phase 1 Utilities Trenching and Building Construction (2023)	11	11	0.44	0.41		
Phase 1 Building Construction (2023)	10	10	0.41	0.38		
Phase 1 Building Construction (2024)	9	10	0.37	0.34		
Phase 2 Utilities Trenching	1	1	0.03	0.02		
Phase 2 Utilities Trenching and Building Construction (2025)	11	13	0.43	0.39		
Phase 2 Building Construction (2025)	11	12	0.4	0.37		

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Table 5.2-11 Maximum Daily On-Site Localized Construction Emissions

		Pollutants	(lbs./day) ^{1,2}	
	NOx	CO	PM ₁₀ ³	PM _{2.5} ³
Phase 2 Building Construction (2026)	10	12	0.36	0.33
Phase 3 Utilities Trenching	1	1	0.02	0.02
Phase 3 Utilities Trenching and Building Construction 2028)	9	11	0.25	0.23
Phase 3 Building Construction (2028)	8	10	0.23	0.21
Phase 3 Building Construction (2029)	8	10	0.21	0.19
Phase 3 Building Construction (2030)	7	10	0.2	0.18
Exceeds LST?	No	No	No	No
outh Coast AQMD 1.35-Acre LST	118	655	4.70	3.35
Phase 3 Building and Asphalt Demolition and Debris daul	5	9	0.88	0.24
Phase 3 Building and Asphalt Demolition and Debris daul, Site Preparation	10	17	1.02	0.37
Phase 3 Site Preparation	5	9	0.14	0.13
Phase 3 Site Preparation and Rough Grading	16	23	3.42	1.94
Phase 3 Rough Grading	12	14	3.28	1.81
Phase 3 Fine Grading	12	14	3.28	1.81
Phase 3 Fine Grading and Utilities Trenching	13	15	3.3	1.83
Phase 3 Building Construction (2030), Paving, and architectural Coating	11	16	0.28	0.26
Phase 3 Building Construction (2030), Paving, Architectural Coating, and Finishing/Landscaping	12	17	0.3	0.27
exceeds LST?	No	No	No	No
outh Coast AQMD 1.38-Acre LST	120	661	4.75	3.37
Phase 1 Building Construction (2024), Paving, and Architectural Coating	14	16	0.59	0.54
Phase 1 Building Construction (2024), Paving, Architectural Coating, and Finishing/Landscaping	15	17	0.62	0.57
Phase 2 Building Construction (2026), Paving, and Architectural Coating	14	18	0.49	0.45
Phase 2 Building Construction (2026), Paving, Architectural Coating, and Finishing/Landscaping	15	19	0.51	0.47
exceeds LST?	No	No	No	No
South Coast AQMD 1.50-Acre LSTs	125	694	5.00	3.50
Phase 1 Building and Asphalt Demolition and Debris daul	5	7	0.65	0.27
Phase 2 Building and Asphalt Demolition and Debris Haul	6	9	0.74	0.295
Exceeds LST?	No	No	No	No
South Coast AQMD 1.88-Acre LSTs	142	794	5.75	3.87
Phase 1 Rough Grading	18	16	3.59	2.11
Phase 1 Fine Grading	18	16	3.59	2.11
Phase 1 Fine Grading and Utilities Trenching	18	17	3.62	2.14

Table 5.2-11 Maximum Daily On-Site Localized Construction Emissions

	Pollutants (lbs./day) ^{1,2}			
	NOx	CO	PM ₁₀ ³	PM _{2.5} ³
Phase 2 Rough Grading	14	15	3.4	1.93
Phase 2 Fine Grading	14	15	3.4	1.93
Phase 2 Fine Grading and Utilities Trenching	15	16	3.43	1.95
Exceeds LST?	No	No	No	No
South Coast AQMD 1.97-Acre LSTs	146	819	5.94	3.97
Phase 1 Building and Asphalt Demolition and Debris Haul, Site Preparation	11	16	0.94	0.54
Phase 1 Site Preparation	6	9	0.29	0.27
Phase 1 Site Preparation and Rough Grading	24	25	3.88	2.38
Exceeds LST?	No	No	No	No
South Coast AQMD 2.00-Acre LSTs	147	827	6.00	4.00
Phase 2 Site Preparation	5	9	0.21	0.19
Exceeds LST?	No	No	No	No
South Coast AQMD 2.82-Acre LSTs	167	1,019	7.91	4.55
Phase 2 Building and Asphalt Demolition and Debris Haul, Site Preparation	11	17	0.95	0.485
Phase 2 Site Preparation and Rough Grading	19	23	3.61	2.12
Exceeds LST?	No	No	No	No

Sources: CalEEMod Version 2022.1.0, and South Coast AQMD 2008 and 2011. Highest winter or summer emissions are reported.

Construction Health Risk

The Proposed Project would elevate concentrations of TACs (i.e., DPM) in the vicinity of sensitive land uses during temporary construction activities that would use offroad equipment operating on-site, and at different levels depending on the type of activity (for example, limited to none during installation of utilities, and more during grading activities). Construction modeling considered years 2023-2024 for Phase 1 construction activities, 2025-2026 for Phase 2 construction activities, and 2028-2030 for Phase 3 construction activities.

The nearest sensitive receptors to the Proposed Project's Site are the on-site students who will be on campus during periods of construction activity. The nearest offsite receptors include single- and multi-family residences to the northwest, northeast, and southwest of the Proposed Project's Site, along Arizona Avenue, Chelsea Avenue, and along 23rd Court. A site-specific construction HRA of TACs was prepared to quantify potential health risk emissions during construction (see Appendix E). The results of the analysis are shown in Table 5.2-12, *Construction Risk Summary* and demonstrates that there would be no exceedance of identified thresholds.

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In accordance with South Coast AQMD methodology, only on-site stationary sources and mobile equipment occurring on the Proposed Project's Site are included in the analysis. LSTs are based on non-sensitive receptors within 82 feet (25 meters) of the Proposed Project's Site in Source Receptor Area (SRA) 2.

² Based on information provided or verified by the District. Where specific information regarding project-related construction activities or processes was not available, construction assumptions were based on CalEEMod defaults, which are based on construction surveys conducted by the South Coast AQMD.

Includes implementation PDF AQ-1 through AQ-43 which include fugitive dust control measures required by South Coast AQMD under Rule 403, including watering disturbed areas a minimum of two times per day, reducing speed limit to 15 miles per hour on unpaved surfaces, replacing ground cover quickly, and street sweeping with Rule 1186–compliant sweepers. In addition, PDF AQ-4 requires use of Tier 4 construction equipment for equipment for equipment 25 horsepower and higher.

Table 5.2-12 Construction Risk Summary¹

Receptor	Cancer Risk (per million)	Chronic Hazards
Maximum Exposed Receptor – Off-site Resident ²	8.9	0.037
Maximum Exposed Receptor – On-site Students ³	1.10	0.031
South Coast AQMD Threshold	10	1.0
Exceeds Threshold?	No	No

Source: Appendix E, HRA

The results of the HRA are based on the maximum receptor concentration over an approximately 4.73-year construction exposure duration for receptors.

- Cancer risk for the maximum exposed off-site resident from construction activities related to the Proposed Project were calculated to be 8.9 in a million which would not exceed the 10 in a million-significance threshold.
- Cancer risk for the maximum exposed on-site student receptor from construction activities would be 1.10 in a million and would not exceed the 10 in a million-significance threshold.
- For non-carcinogenic effects, the chronic hazard index identified for each toxicological endpoint totaled less than one for all the on-site and off-site sensitive receptors. Therefore, chronic non-carcinogenic hazards are less than significant.

Because cancer risks for the on-site student receptor and off-site residential MER would not exceed South Coast AQMD significance threshold, construction activities associated with the Proposed Project are **less than significant**.

Operation

Operational Phase LSTs

The screening-level LSTs are the amount of project-related stationary and area sources of emissions at which localized concentrations (ppm or µg/m³) would exceed the ambient air quality standards for criteria air pollutants for which the SoCAB is designated a nonattainment area. The Proposed Project would involve the redevelopment and modernization of McKinley ES. The Project would not generate a substantial number of trucks trips or stationary sources of emissions. Typical sources of criteria air pollutant emissions associated with the Proposed Project from both stationary and area sources include energy use and landscaping fuel and aerosols. Types of land uses that typically generate substantial quantities of criteria air pollutants and TACs

Modeling includes implementation PDF AQ-1 through AQ-4. PDF AQ-4 requires use of Tier 4 construction equipment for equipment for equipment 25 horsepower and higher.

In accordance with the latest 2015 OEHHA guidance, the calculated total cancer risk conservatively assumes that the risk for the MEIR consists of a pregnant woman in the third trimester that subsequently gives birth to an infant during the approximately 4.73-year construction period; therefore, calculated risk values for the first 2.25 years were multiplied by a factor of 10 and the remaining risk values by a factor of 3.

² The calculated risk values for the students were multiplied by a factor of 3.

include industrial (stationary sources) and warehousing (truck idling) land uses. These types of major air pollutant emissions sources would not be included and/or expanded under the Proposed Project. Thus, the Proposed Project would not result in creation of land uses that would generate substantial concentrations of criteria air pollutant emissions. Therefore, localized operation-related air quality impacts are considered **less** than significant.

Carbon Monoxide Hotspots

Areas of vehicle congestion have the potential to create pockets of CO called hotspots. These pockets have the potential to exceed the state one-hour standard of 20 ppm or the eight-hour standard of 9.0 ppm. Because CO is produced in greatest quantities from vehicle combustion and does not readily disperse into the atmosphere, adherence to AAQS is typically demonstrated through an analysis of localized CO concentrations. Hot spots are typically produced at intersections, where traffic congestion is highest because vehicles queue for longer periods and are subject to reduced speeds. The SoCAB has been designated in attainment of both the National and California AAQS for CO. Under existing and future vehicle emission rates, a project would have to increase traffic volumes at a single intersection to more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited—to generate a significant CO impact (BAAQMD 2017). As the Proposed Project would not result in an increase of student capacity or employees, the Proposed Project would not generate additional peak-hour trips. Circulation (pick-up and drop-off areas) would be relocated an improved such that idling time would not increase. Therefore, implementation of the Proposed Project would not have the potential to substantially increase CO hotspots at intersections in the vicinity of the Proposed Project's Site. Operational impacts would be **less than significant**.

5.2.4 Mitigation Measures

No mitigation measures are required.

5.2.5 Level of Significance After Mitigation

All impacts are less than significant.

5.2.6 Cumulative Impacts

In accordance with South Coast AQMD's methodology, any project that produces a significant project-level regional air quality impact in an area that is in nonattainment contributes to the cumulative impact. The greatest source of emissions in the SoCAB is mobile sources. Due to the extent of the area potentially impacted from cumulative project emissions (i.e., the SoCAB), South Coast AQMD considers a project cumulatively significant when project-related emissions exceed the South Coast AQMD regional emissions thresholds shown in Table 5.2-5. No significant cumulative impacts were identified with regard to CO hotspots.

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Construction

The SoCAB is designated nonattainment for O₃ and PM_{2.5} under the California and National AAQS and nonattainment for PM₁₀ under the California AAQS,¹⁵ and nonattainment for lead (Los Angeles County only) under the National AAQS. Construction of cumulative projects will further degrade the regional and local air quality. Air quality will be temporarily impacted during construction activities. As shown in Table 5.2-9, the Proposed Project's short-term emissions would not exceed the South Coast AQMD regional emissions thresholds. In addition, construction activities from all three construction phases would not exceed their screening-level LSTs. Construction of the Proposed Project would also not exceed the South Coast AQMD cancer risk or chronic hazards thresholds.

Therefore, Project-related construction emissions would be reduced to below the cancer risk threshold and construction-related cumulative impacts would be reduced to **less than significant.**

Operation

For operational air quality emissions, any project that does not exceed or can be mitigated to less than the daily regional threshold values are not considered by South Coast AQMD to be a substantial source of air pollution and does not make a cumulatively considerable contribution to a cumulative air quality impact. Operation of the Proposed Project would not result in emissions in excess of the South Coast AQMD regional emissions thresholds, and thus the Proposed Project would not cumulatively contribute to significant health impacts in the SoCAB. Therefore, the air pollutant emissions associated with the Proposed Project would not be cumulatively considerable and impacts would be **less than significant**.

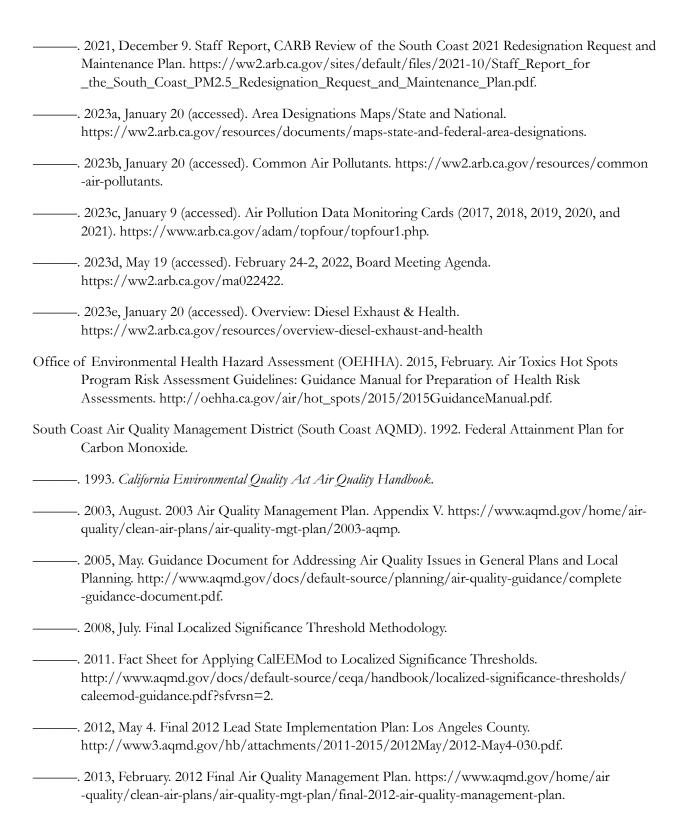
5.2.7 References

Bay Area Air Quality Management District (BAAQMD). 2017, May. California Environmental Quality Act Air Quality Guidelines. http://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en.

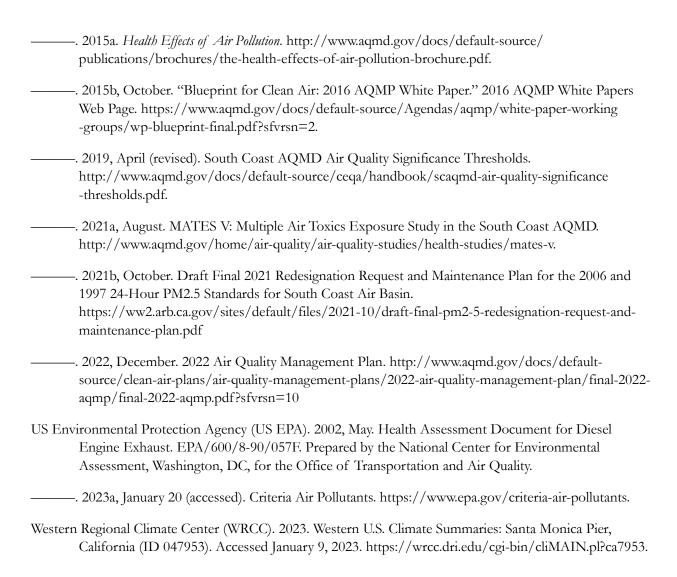
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Portions of the SoCAB along SR-60 in Los Angeles, Riverside, and San Bernardino counties are proposed nonattainment for NO₂ under the California AAQS.



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5.3 CULTURAL RESOURCES

Cultural resources comprise archaeological and historical resources. A cultural resource is defined as any object or specific location of past human activity, occupation, or use, identifiable through historical documentation, inventory, or oral evidence. Cultural resources provide information on scientific progress, environmental adaptations, group ideology, or other human advancements. Cultural resources can be separated into three categories: archaeological, built environment, and traditional cultural resources.

Archaeology studies human artifacts, such as places, objects, and settlements that reflect group or individual religious, cultural, or everyday activities. Archaeological resources include both historic and prehistoric remains of human activity. Historic-period resources include historic structures, structural ruins (such as foundation remnants), sites (such as artifact reuse deposits and artifact-filled features), objects, or places that are significant for their engineering, architecture, cultural use, or association. Prehistoric resources can include lithic artifact or ceramic scatters, quarries, habitation sites, temporary camps/rock rings, ceremonial sites, and monuments, canals, historic roads and trails, bridges, and ditches and objects. Prehistoric resources can include lithic artifact or ceramic scatters, quarries, habitation sites, temporary camps/rock rings, ceremonial sites, and monuments, canals, historic roads and trails, bridges, and ditches and objects.

This section of the Draft Environmental Impact Report (DEIR) evaluates the potential for implementation of the McKinley Elementary School Campus Master Plan Project (Proposed Project) to impact cultural resources. Impacts to paleontological resources are addressed in Section 5.5, *Geology and Soils*. Tribal Cultural resources are addressed in Chapter 6, *Other CEQA Considerations* Section 6.2, *Impacts Found Not to be Significant*.

The analysis in this section is based in part on the following technical report:

- Archaeological and Paleontological Resources Assessment for the McKinley Elementary Campus Master Plan Project, Cogstone, September 2022
- McKinley Elementary School Campus Plan Project Historical Resources Inventory Report, Historic Resources Group, January 2022
- McKinley Elementary School Campus Plan Project Historical Resources Impact Assessment, HRG, March 2023

A complete copy of this technical report is provided in Appendices F1 through F3 of this Draft EIR.

During the Initial Study/Notice of Preparation (IS/NOP) public review period, comment were received regarding historic impacts associated with the Proposed Project. A California Environmental Quality Act (CEQA) scoping meeting was conducted on January 31, 2023, where additional concerns regarding these issues were raised. The IS/NOP and all scoping comment letters are included as Appendices B and C of this document.

5. Environmental Analysis cultural resources

5.3.1 Environmental Setting

5.3.1.1 REGULATORY BACKGROUND

Federal, state, and local laws, regulations, plans, or guidelines related to cultural resources that are applicable to the Proposed Project are summarized below.

Federal

National Historic Preservation Act

The National Historic Preservation Act of 1966 (NHPA) coordinates public and private efforts to identify, evaluate, and protect the nation's historic and archaeological resources. The act authorized the National Register of Historic Places, which lists districts, sites, buildings, structures, and objects that are significant in American history, architecture, archaeology, engineering, and culture.

Section 106 (Protection of Historic Properties) of the NHPA requires federal agencies to consider the effects of their undertakings on historic properties. Section 106 review ensures that historic properties are considered during federal project planning and implementation. The Advisory Council on Historic Preservation, an independent federal agency, administers the review process with assistance from state historic preservation offices.

National Register of Historic Places

The National Register of Historic Places (NRHP) is the nation's official list of buildings, structures, objects, sites, and districts worthy of preservation because of their significance in American history, architecture, archaeology, engineering, and culture. The NRHP recognizes resources of local, state, and national significance that have been documented and evaluated according to uniform standards and criteria.

Authorized under the NHPA, the NRHP is part of a national program to coordinate and support public and private efforts to identify, evaluate, and protect historic and archaeological resources. The NHRP is administered by the National Park Service, which is part of the U.S. Department of the Interior.

To be eligible for listing in the NRHP, a resource must meet at least one of the following criteria:

- A. Is associated with events that have made a significant contribution to the broad patterns of our history.
- B. Is associated with the lives of persons significant in our past.
- C. Embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction.
- D. Has yielded, or may be likely to yield, information important in history or prehistory.

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5. Environmental Analysis CULTURAL RESOURCES

Historic Integrity

Historic integrity is the ability of a property to convey its significance. It is defined as the "authenticity of a property's historic identity, evidenced by the survival of physical characteristics that existed during the property's historic period" (NPS 1997a) The National Park Service (NPS) defines seven aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. These qualities are defined as follows:

- Location is the place where the historic property was constructed or the place where the historic event occurred.
- **Design** is the combination of elements that create the form, plan, space, structure, and style of a property.
- *Setting* is the physical environment of a historic property.
- Materials are the physical elements that were combined or deposited during a particular period of time
 and in a particular pattern or configuration to form a historic property.
- Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.
- Feeling is a property's expression of the aesthetic or historic sense of a particular period of time.
- Association is the direct link between an important historic event or person and a historic property.

Period of Significance

The NPS defines period of significance as "the length of time when a property was associated with important events, activities or persons, or attained the characteristics which qualify it for ... listing" in National, State or local registers. A period of significance can be "as brief as a single year ...[or] span many years." It is based on "specific events directly related to the significance of the property," for example the date of construction, years of ownership, or length of operation as a particular entity (NPS 1997a).

Historic Districts

Standard preservation practice evaluates collections of buildings from similar time periods, places, and historic contexts as historic districts. The NPS defines a historic district as "a significant concentration, linkage, or continuity of sites, buildings, structures, or objects united historically or aesthetically by plan or physical development" (NPS 1997b). Historic district derives its significance as a single unified entity.

According to the NPS, "a district can comprise both features that lack individual distinction and individually distinctive features that serve as focal points. It may even be considered eligible if all of the components lack individual distinction, provided that the grouping achieves significance as a whole within its historic context. In either case, the majority of the components that add to the district's historic character, even if they are individually undistinguished, must possess integrity, as must the district as a whole" (NPS 1997b). Resources that have been found to contribute to the historic identity of a district are referred to as district contributors.

5. Environmental Analysis cultural resources

Properties located within the district boundaries that do not contribute to its significance are identified as non-contributors.

As identified by the NPS, school campuses, which are often geographically concentrated and purpose-built, are often evaluated as historic districts. Schools in the United States, especially those built in the 20th century, often exhibit definable campuses and unified site plans which reflect individual building's interconnectedness and functionality as a larger grouping. Although historic districts can contain resources built during distinct periods of development, many school campus historic districts reflect a specific era of development and are contained within a common period of significance.

Archaeological Resources Protection Act

The Archaeological Resources Protection Act of 1979 (United States Code, Title 16, section 470aa et seq.) regulates the protection of archaeological resources and sites on federal and Native American lands.

Native American Graves Protection and Repatriation Act

The Native American Graves Protection and Repatriation Act (NAGPRA) is a federal law passed in 1990 that mandates museums and federal agencies to return certain Native American cultural items—such as human remains, funerary objects, sacred objects, or objects of cultural patrimony—to lineal descendants or culturally affiliated Native American tribes.

State

The California Office of Historic Preservation, a division of the California Department of Parks and Recreation, is responsible for carrying out the duties described in the PRC and maintaining the California Historic Resources Inventory and the California Resources of Historical Resources (CRHR). The state-level regulatory framework also includes CEQA, which required the identification and mitigation of substantial adverse impacts that may affect the significance of eligible historical and archaeological resources.

California Environmental Quality Act

CEQA requires a lead agency to analyze whether historic and/or archaeological resources may be adversely impacted by a proposed project. Under CEQA, a "project that may cause a substantial adverse change in the significance of a historic resource is a project that may have a significant effect on the environment" (PRC Section 21084.1). Answering this question is a two-part process. First, the determination must be made as to whether the proposed project involves cultural resources. Second, if cultural resources are present, the proposed project must be analyzed for a potential "substantial adverse change in the significance" of the resource.

Historical Resources

According to CEQA Guidelines Section 15064.5, for the purposes of CEQA, historical resources are:

 A resource listed in, or formally determined eligible...for listing in the California Register of Historical Resources (PRC 5024.1, Title 14 California Code of Regulations [CCR], Section 4850 et seq.)

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5. Environmental Analysis CULTURAL RESOURCES

- A resource included in a local register of historical resources, as defined in Section 5020.1(k) of the PRC or identified as significance in a historic resources survey meeting the requirements of Section 5024.1(g) of the PRC.
- Any object, building, structure, site, area, place, record, or manuscript that the lead agency determines to be eligible for national, state, or local landmark listing; generally, a resource shall be considered by the lead agency to be historically significant (and therefore a historic resource under CEQA if the resource meets the criteria for listing on the California Register (as defined in PRC Section 5024.1, Title 14 CCR, Section 4852).

Resources nominated to the CRHR must retain enough of their historic character or appearance to convey the reasons for their significance. Resources whose historic integrity (as defined above) does not meet NRHP criteria may still be eligible for listing in the CRHR.

According to CEQA, the fact that a resource is not listed in or determined eligible for listing in the CRHR or is not included in a local register or survey shall not preclude the lead agency from determining that the resource may be a historical resource (PRC Section 5024.1). Pursuant to CEQA, a project with an effect that may cause a substantial adverse change in the significance of a historical resource may have a significant effect on the environment (State CEQA Guidelines, Section 15064.5[b]).

Substantial Adverse Change and Indirect Impacts to Historical Resources

CEQA Guidelines specify that a "substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (State CEQA Guidelines, Section 15064.5). Material impairment occurs when a project alters in an adverse manner or demolishes "those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion" or eligibility for inclusion in the NRHP, CRHR, or local register. In addition, pursuant to State CEQA Guidelines Section 15126.2, the "direct and indirect significant effects of the project on the environment shall be clearly identified and described, giving due consideration to both the short-term and long-term effects."

The following guides and requirements are of relevance to this study's analysis of indirect impacts to historic resources. Pursuant to CEQA Guidelines Section 15378, study of a project under CEQA requires consideration of "the whole of an action, which has the potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment." State CEQA Guidelines (Section 15064(d)) further define direct and indirect impacts:

- (1) A direct physical change in the environment is a physical change in the environment which is caused by and immediately related to the project.
- (2) An indirect physical change in the environment is a physical change in the environment, which is not immediately related to the project, by which is caused indirectly by the project. If a direct physical change in the environment in turn causes another change in the environment, then the other change is an indirect physical change in the environment.

5. Environmental Analysis cultural resources

(3) An indirect physical change is to be considered only if that change is a reasonably foreseeable impact which may be caused by the project.

Archaeological Resources

PRC Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

- (1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
- (2) Has a special and particular quality such as being the oldest of its type of the best available example of its type.
- (3) Is directly associated with a scientifically recognized important prehistoric or historic event or person.

If it can be demonstrated that a proposed project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (PRC Sections 21083.2[a], [b], and [c]). CEQA notes that, if an archaeological resource is neither a unique archaeological resource nor a historical resource, the effects of the project on those resources shall not be considered to be a significant effect on the environment (State CEQA Guidelines Section 15064.5[c][4]).

California Public Resources Code

Archaeological, paleontological, and historical sites are protected under a wide variety of state policies and regulations in the California Public Resources Code (PRC). In addition, cultural and paleontological resources are recognized as nonrenewable resources and receive protection under the PRC and CEQA.

PRC Sections 5020 to 5029.5 continued the former Historical Landmarks Advisory Committee as the State Historical Resources Commission. The commission oversees the administration of the California Register of Historical Resources and is responsible for designating State Historical Landmarks and Historical Points of Interest.

PRC Sections 5079 to 5079.65 define the functions and duties of the Office of Historic Preservation (OHP), which administers federal- and state-mandated historic preservation programs in California as well as the California Heritage Fund.

PRC Sections 5097.9 to 5097.991 provide protection to Native American historical and cultural resources and sacred sites; identify the powers and duties of the Native American Heritage Commission (NAHC); require that descendants be notified when Native American human remains are discovered; and provide for treatment and disposition of human remains and associated grave goods.

Requirements for paleontological resource management are included in California PRC Division 5, Chapter 1.7, Section 5097.5, which states:

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5. Environmental Analysis CULTURAL RESOURCES

A person shall not knowingly and willfully excavate upon, or remove, destroy, injure, or deface, any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, rock art, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over the lands.

These statutes prohibit the removal, without permission, of any paleontological site or feature from land under the jurisdiction of the state or any city, county, district, authority, or public corporation, or any agency thereof. Consequently, local agencies are required to comply with PRC Section 5097.5 for their own activities, including construction and maintenance, as well as for permit actions (e.g., encroachment permits) undertaken by others. PRC Section 5097.5 also establishes the removal of paleontological resources as a misdemeanor and requires reasonable mitigation of adverse impacts to paleontological resources from developments on public (i.e., state, county, city, and district) land.

California Register of Historical Resources

Created in 1992 and implemented in 1998, the CRHR is "an authoritative guide in California to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Sections 21083.2 and 21084.1). Certain properties, including those listed in or formally determined eligible for listing in the NRHP and California Historical Landmarks numbered 770 and higher, are automatically included in the CRHR. Other properties recognized under the California Points of Historical Interest (CPHI) program, identified as significant in historical resources surveys, or designated by local landmarks programs, may be nominated for inclusion in the CRHR.

Resources eligible for listing include buildings, sites, structures, objects, or historic districts that retain historical integrity and are historically significant at the local, state, or national level under one or more of the following four criteria:

- 1. It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
- 2. It is associated with the lives of persons important in our past;
- 3. It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
- 4. It has yielded, or has the potential to yield, information important to the prehistory or history.

Resources nominated to the CRHR must retain enough of their historic character or appearance to convey the reasons for their significance. Resources whose historic integrity does not meet NRHP criteria may still be eligible for listing in the CRHR.

5. Environmental Analysis cultural resources

Secretary of the Interior's Standards

The Secretary of the Interior's Standards for the Treatment of Historic Properties (Standards) provide guidance for reviewing proposed projects that may affect historical resources. The intent of the Standards is to assist the long-term preservation of a property's significance through the preservation, rehabilitation, and maintenance of historic materials and features.

The Standards are a useful analytic tool for understanding and describing the potential impacts of substantial changes to historical resources. However, compliance with the Standards does not necessarily determine whether a project would cause a substantial adverse change in the significance of an historical resource. Rather, projects that comply with the Standards benefit from a regulatory presumption that they would have a less than significant adverse impact on a historic resource [CEQA Guidelines Section 15064.5(4)(b)(3)].

The statutory language referenced above references the Secretary of the Interior's standards and guidelines for four distinct historic "treatments," including: (1) preservation; (2) rehabilitation; (3) restoration; and (4) reconstruction. The specific standards and guidelines associated with each of these possible treatments are provided on the NPS' website regarding the treatment of historic resources. For analytical purposes, a threshold decision must be made regarding which "treatment" standards should be used to analyze a project's potential effect on historic resources. According to the NPS, the "rehabilitation" standards (the Rehabilitation Standards) are most frequently applied for the majority of historic buildings. The Rehabilitation Standards acknowledge the need to alter or add to a historic property to meet continuing or changing uses while retaining the property's historic character.

In the case of schools located within the Santa Monica-Malibu School District (SMMUSD) that contain historic districts, the Rehabilitation Standards provide a framework for conservative impact analysis for future projects. A discussion of the Rehabilitation Standards as they may apply to future projects within the district is included below.

Secretary of the Interior's Standards and Guidelines for Rehabilitation

The Standards are intended as general guidance for work on any historic building. The NPS encourages maintaining the integrity of a district through the appropriate design of infill buildings at vacant sites or sites where new buildings replace non-contributing buildings. The Guidelines for Rehabilitation expand the discussion to sites and neighborhoods.

As written in the Guidelines for Rehabilitation, there is a distinction, but not a fundamental difference, between the concerns for additions to historic buildings and new construction, or "infill" adjacent to historic buildings on a property or within a district. As with most matters of design and planning, the differences are defined by the scale, site, setting, and project.

Following are quotations from the NPS guidance.

" ... a modern addition should be readily distinguishable from the older work; however, the new work should be harmonious with the old in scale, proportion, materials, and color."

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"Plan the new addition in a manner that provides some differentiation in material, color, and detailing so that the new work does not appear to be part of the historic building. The character of the historic resource should be identifiable after the addition is constructed" (NPS 2010)

Rehabilitation Standards for Historic Districts

Future projects that involve new infill construction and/or demolition of contributing features to a historic district have the potential to impact the historic district. However, for potential impacts to be considered a "substantial adverse change" to a historic district under CEQA, it must be shown that the new construction and/or removal of the contributing buildings associated with a project would result in the physical alteration of the historic district such that its ability to convey its historical significance and eligibility for historic listing would be threatened.

Typically, if new buildings are designed to be compatible and differentiated from the historic district using the Rehabilitation Standards, future projects will not result in a "substantial adverse change." Similarly, if a historic district retains a majority of its contributing features and integrity, and continues to convey its significance, future projects will not result in a "substantial adverse change." Analysis should be conducted on a case-by-case basis to consider all potential impacts that a project may have on a historic district, including the percentage of resources retained and lost, historic spatial and circulation patterns, scale and massing, and visibility from the public right-of-way. As such, the Rehabilitation Standards provide a certain level of flexibility for future projects planned within or adjacent to historic districts.

Local

Santa Monica/Malibu United School District Board Policy and Administrative Regulation 7113

The District adopted "Board Policy 7113: FACILITIES: Historical Resources" on February 9, 2021, for the purpose of outlining objectives and establishing procedures for the treatment of historical resources on District campuses. SMMUSD developed this policy to identify and clarify treatment of historical resources on properties under SMMUSD jurisdiction. SMMUSD owns and operates multiple school campuses/properties, which together contain over 100 individual buildings, some of which date from the mid-20th century or earlier. Some of these buildings might be or contain elements that potentially have historical significance. SMMUSD understands that historical resources should be identified in advance of approval of campus rehabilitation and construction to retain and/or commemorate their significance for future generations when feasible and consistent with educational priorities. Objectives of Board Policy 7113 include engaging architects and engineers with demonstrated preservation expertise to consult and guide the planning and design process, where appropriate and consulting with interested third parties, including the Santa Monica Conservancy when potential impacts to identified historic resources are involved. In addition to Board Policy 7113, the District has also prepared Administrative Regulation 7113, which establishes procedures for the retention of qualified historical resources consultants to survey each campus prior to approval of a master plan or design of a school facilities project to identify any historical resources on the campuses.

5.3.1.2 PREHISTORIC SETTING

Approaches to prehistoric frameworks have changed over the past half century from being based on material attributes to radiocarbon chronologies to association with cultural traditions. Archaeologists defined a material complex consisting of an abundance of milling stones (for grinding food items) with few projectile points or vertebrate faunal remains dating from about 7 to 3 thousand years before the present as the "Millingstone Horizon". Later, the "Millingstone Horizon" was redefined as a cultural tradition named the Encinitas Tradition with various regional expressions including Topanga and La Jolla. Use by archaeologists varied as some adopted a generalized Encinitas Tradition without regional variations, some continued to use "Millingstone Horizon" and some used Middle Holocene (the time period) to indicate this observed pattern (Cogstone 2022).

Recently, it was recognized that generalized terminology is suppressing the identification of cultural, spatial, and temporal variation and the movement of peoples throughout space and time. These factors are critical to understanding adaptation and change (Cogstone 2022).

The Encinitas Tradition characteristics are abundant metates and manos, crudely made core and flake tools, bone tools, shell ornaments, very few projectile points with subsistence focusing on collecting (plants, shellfish, etc.). Faunal remains vary by location but include shellfish, land animals, marine mammals, and fish (Cogstone 2022).

The Topanga cultural pattern of the Encinitas Tradition is applicable to coastal Los Angeles and Orange counties. This pattern is replaced by the Angeles pattern of the Del Rey Tradition later in time (Cogstone 2022).

The Topanga cultural pattern can be described by three phases: Topanga I (8,500 to 5,000 years before the present [BP]), Topanga II (5,000 to 3,500 BP), and Topanga III (3,500 to 1,000 BP). Topanga I is characterized by the use of manos and metates, abundant core tools, and leaf-shaped projectile points, Topanga II is characterized by use of mortar and pestle, smaller points, nearshore and terrestrial food sources, while Topanga III is characterized by increased abundance of metates and manos, mortar and pestles, more varied types of projectile points and the stone-line earthen ovens. The Angeles Pattern can be described by three periods: Angeles IV (1,000 to 800 BP), Angeles V (800 to 450 BP), and Angeles VI (450 to 150 BP). Angeles IV is characterized by new cottonwood points, *Olivella* cupped beads, and *Mytilus* shell disk, Angeles V is characterized by use of larger steatite artifacts, larger vessels, and more elaborate effigies. The Angeles VI period is characterized by Gabrielino post-contact with Euro-Americans; specifically population loss due to disease, social/political disruption, and the inclusion of Euro-American tools and materials.

5.3.1.3 ETHNOGRAPHIC SETTING

The Gabrielino language was derived from the Takic family of the Uto-Aztecan linguistic stock, which can be traced to the Great Basin area. The Gabrielino territory encompassed a vast area stretching from Topanga Canyon in the northwest, to the base of Mount Wilson in the north, to San Bernardino in the east, Aliso Creek in the southeast and the Southern Channel Islands, in all an area of more than 2,500 square miles. At European contact, the tribe consisted of more than 5,000 people living in various settlements throughout the area. Some of the villages could be quite large, housing up to 150 people. The closest known village to the Proposed Project's Site is Wanaawna located 3.75 miles south.

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The Gabrielino structures were domed and circular thatched with tule or similar materials. The main food zones were marine, woodland, and grassland. Acorns were an important food source. Villages were located near water sources necessary for the leaching of acorns, which was a daily occurrence. Grass seeds were the next most abundant plant food used along with chia. Seeds were parched, ground, and cooked as mush in various combinations according to taste and availability. Greens and fruits were eaten raw or cooked or sometimes dried for storage. Bulbs, roots, and tubers were dug in the spring and summer and usually eaten fresh. Mushrooms and tree fungus were considered delicacies. Various teas were prepared from flowers, fruits, stems, and roots as beverages and for medicinal purposes (Cogstone 2022).

Common game animals were deer, rabbit, jackrabbit, woodrat, mice, ground squirrels, antelope, quail, dove, ducks, and other birds. Most predators were avoided as food, as were tree squirrels and most reptiles. Trout and other fish were caught in the streams. Salmon was available in the larger creeks. Sea mammals, fish, and crustaceans were hunted and gathered from both the shoreline and the open ocean, using reed and dugout canoes. Shellfish were the most common resource, including abalone, turbans, mussels, clams, scallops, bubble shells, and others (Cogstone 2022).

5.3.1.4 HISTORIC OVERVIEW

Post-Contact history for the state of California is generally divided into three periods: the Spanish Period (1769–1822), Mexican Period (1822–1848), and American Period (1848–present). Although Spanish, Russian, and British explorers visited the area for brief periods between 1529 and 1769, the Spanish Period in California begins with the establishment in 1769 of a settlement at San Diego and the founding of Mission San Diego de Alcalá, the first of 21 missions constructed between 1769 and 1823. Independence from Spain in 1821 marks the beginning of the Mexican Period, and the signing of the Treaty of Guadalupe Hidalgo in 1848, ending the Mexican-American War, signals the beginning of the American Period, when California became a territory of the United States.

After Mexico won its Independence from Spain (1821), the Secularization Act as passed in 1833 which gave the mission lands to the Mexican government which he redistributed in the form of Land Grants. The Proposed Project's area is located within San Vicente Y Santa Monica land grant, in 1839. The approximately 33,000-acre land grant was given to Francisco Sepulveda by Spanish California governor Juan Alvarado and covered what is today Santa Monica, Brentwood, Mandeville Canyon, and parts of West Los Angeles. However, the boundaries were in dispute throughout the Mexican Period and continued to be even after the Mexican-American War. Sepulveda's heirs were finally granted patent to the 30,260-acre Rancho San Vicente y Santa Monica in 1881 (Cogstone 2022).

The early years of the twentieth century ushered in dramatic changes to schools in the area. From approximately 1903 to 1933, schools in Santa Monica increased in number, grew in populations served, and changed in design and orientation.

In 1903, Santa Monica became a city of the fourth class, thereby entitling it to maintain its own schools. Thus, the school district became the Santa Monica City School District. Increasingly, schools were expected to serve community needs in Santa Monica. In 1905, the newly established Woman's Club of Santa Monica

championed the building of schools and a bond issue in 1906 provided funding for additional schools. By 1907, the population of Santa Monica had jumped to 7,200 residents. The following year, the city expanded further by annexing the community of Ocean Park to the south (HRG 2022)

In the early twentieth century, the Progressive Education Movement came to influence education in Santa Monica. Shunning traditional teaching philosophies, the Progressive Education Movement emphasized hands-on methods of teaching that allowed children to explore and learn to the best of their own individual abilities. This influenced school programming, which increasingly emphasized individualized curriculum. As populations increased and space became scarce at schools, the Progressive Education Movement philosophies also provided a method for economizing space. As recorded by Historian Donald M. Cleland, during the early twentieth century, great strides were made in the Santa Monica school system:

The phenomenal growth of enrollment which the Santa Monica schools experienced during the early part of the twentieth century focused the attention of the board of education upon the problem of providing adequate physical facilities. It was during this time that...changes in curriculum were observed at all levels of instruction. At the elementary level, the platoon system of organization was adopted and put into effect in the four new elementary schools designed for this program. The platoon schools, as such, continued in operation until the early 1930s.

Platoon school systems divided larger student populations into two groups, one of which would study academic subjects in the classrooms in the morning while the second utilized the rest of the school facility for specialized subjects. Then, halfway through the day, the two groups would switch places and study subjects. The system was praised by leaders of the Progressive Education Movement including John Dewey and Evelyn Dewey and was thought to achieve a more humanistic and democratic education while also providing administrative efficiency (HRG 2022)

During this period of development, one of the biggest projects was the construction of Jefferson School (1907; demolished) at 1333 6th Street to replace the 6th Street School. A new, three-story high school of wood frame construction (1910) also replaced Lincoln High School at 10th Street and Arizona Avenue. Roosevelt Elementary School (1906) was constructed on 6th Street between Montana and Idaho avenues. John Adams Middle School (1913-1914) was built on Ocean Park Boulevard between 5th and 6th streets.

During the 1920s, several new schools were constructed and existing schools were expanded. The 1920s also brought a new design vocabulary to many schools, with several schools employing the wildly popular period-revival styles that came to characterize Southern California architecture. Attention to design and detail was conferred on buildings from the 1920s, and campuses served a more unified role with grand entrances and a greater degree of spatial differentiation.

During this period, Santa Monica was first in spending on high school education among cities in Southern California. A 1927 study found that half of the possible residential areas were already improved and that, in less than ten years, the population of the city would double. Recommendations included building a new junior high school in the southeast part of the city and renovating the existing high school and elementary schools. The study proposed an "Americanization School" with separate facilities from the general school

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population, perhaps a reflection of the multiethnic and multilingual nature of the population streaming into the area in the 1920s. The study also recommended that new school sites be spread evenly throughout the city, with little overlap.

The newly constructed schools featured two-story brick edifices. They included John Muir Elementary (1923) at 725 Ocean Park Boulevard; the new McKinley Elementary School (1923 Allison & Allison) at 24th Street and Santa Monica Boulevard; Madison Elementary School (1926, Francis David Rutherford) on the site of the old Lincoln High School at 10th Street and Arizona Avenue; Lincoln Junior High School (1923-1924) at 1425 California Avenue; the Garfield School at 1740 7th Street, and Franklin Elementary School (reportedly built with beach sand) at 2400 Montana Avenue. Additions to the Grant School were made in 1924 by local architect Francis David Rutherford. A six-room addition by Allison & Allison was made to John Adams Middle School in 1920 (HRG 2022).

The 1930s and 1940s brought about major changes for schools serving Santa Monica and Malibu. The Long Beach Earthquake of 1933, Works Progress Administration program, and advent of World War II all left indelible marks on the cities of Santa Monica and Malibu and the schools therein.

5.3.1.5 CAMPUS HISTORY

The original campus was constructed in 1905 about one-quarter mile northwest of its present-day location and was rebuilt in 1922 at its current location. The new campus was designed by Los Angeles master architectural firm Allison & Allison in the Italian Renaissance Revival style of architecture. In 1933 a magnitude 6.4 earthquake in Long Beach caused extensive damage throughout the region. Following the earthquake, the architectural firm of Parkinson & Parkinson rehabilitated the damaged school from 1935 to 1937 (HRG 2023).

Although construction ceased during the World War II years (1939 to 1945), development and expansion of the campus resumed shortly thereafter to meet increased student demand. Subsequent construction at the school in the post-war era (1945 to 1968) was not completed as part of long-term planning efforts. In 1951, architect Joe M. Estep designed the cafeteria building to the west of the main building. The cafeteria was connected via two arcades, thereby creating the smaller West Courtyard. In 1973, the architectural firm of Powell, Morgridge, Richards & Coghlan remodeled the campus. This work included alterations to the main entrance and the replacement of windows and doors. In 1973, Building D was constructed as the preschool for the campus (see Figure 3-4, Existing Site Plan).

The existing campus has four permanent buildings as well as athletic facilities, open spaces, and artwork. Building A (Cafeteria) was constructed in 1951 and designed by Joe M. Estep. Building B (Classrooms Building) was constructed in 1923 and designed by Allison & Allison. The building was rehabilitated by Parkinson & Parkinson in 1935 to 1937 and by Powell, Morgridge, Richards & Coghlan in 1973. Building C (Classrooms/Kindergarten) was constructed in 1923 and designed by Allison & Allison. The building was expanded by Allison & Allison in 1929 and 1930. It was rehabilitated by Parkinson & Parkinson in 1935 to 1937 and by Powell, Morgridge, Richards & Coghlan in 1973. The work included alterations to the main entrance and the replacement of windows and doors. An addition was added to the west wing facing the courtyard circa 1958. The building was again altered in 1999. Building D (preschool) was constructed circa 1973.

The Santa Monica Boulevard Quad that is south of Building C along Santa Monica Boulevard dates to the beginnings of the campus (circa 1923) and has been modified over time; the Main Courtyard also dates to the early development of the campus (circa 1923). The West Courtyard dates to circa 1951 and was created by the arcade built at that time.

The Main Courtyard of the campus also includes "Storybook Land," a four-foot-tall, cast stone sculpture that depicts two children reading a book and was created by artist Stefan De Vriedt in 1936. The sculpture was funded by the Works Progress Administration (WPA). In 1937, a bronze plaque was installed by the WPA in Building C after its reconstruction. As shown in Table 3-1, *Characteristics of Existing Buildings*, Buildings B and C were constructed in the 1920's; Building A was constructed in the 1950's; and Building D was constructed in the 1970's.

5.3.1.6 CULTURAL RESOURCES WITHIN THE PROPSOED PROJECT'S AREA

Methods Used to Identify Known Cultural Resources

To evaluate the Proposed Project's potential effects on significant cultural resources, Cogstone (2022) conducted a cultural resources assessment of the Proposed Project's Site, which included archival research and a pedestrian survey. In 2021, the SMMUSD adopted several procedures for the identification of historic resources at school facilities and their recordation in historical resources inventory reports. Historic Resources Group (HRG 2023) completed an evaluation of the McKinley Elementary School campus using these procedures. The methodology and results of these studies are summarized below and are described in more detail in Appendices F1 through F3 of this DEIR.

Records Search Results

On February 4, 2022, a records search of the California Historical Resources Information System (CHRIS) was conducted at the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton. The records search was conducted for the entire Proposed Project's Site as well as a half-mile radius. The purpose of the records search was to determine the extent and location of previous surveys, previously identified prehistoric or historic archaeological site locations, architectural resources, historic properties, cultural landscapes, or ethnic resources within a one-half mile radius of the Proposed Project's Site. Results of the record search indicate that no previous studies have been recorded within the Proposed Project's Site; however, 14 cultural resources studies have been conducted within a half-mile radius of the Proposed Project's Site.

Five previously recorded cultural resources have been recorded within the search radius, as shown in Table 5.3-1, *Previously Recorded Cultural Resources Within a Half-Mile Radius of the Proposed Project's Site.* Of the five previously recorded cultural resources, two have been recorded within the Proposed Project's Site (P-19-188708 and P-19-188709).

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Table 5.3-1 Previously Recorded Cultural Resources within a Half Mile Radius of the Proposed Project's Site

Primary No. (P-19-)	Resource Type	Resource Description	Year Recorded	Distance (miles) from Proposed Project's Area	NRHP/CRHR Status
003803	Historic Archeological Site	Santa Monica Air Line Segment. 6- mile segment of Southern Pacific Railroad right-of-way, 1875	2008	0.25-0.5	NR Eligible: Criterion A
004666	Historic Archeological Site	Refuse deposit comprised of one rusted, metal folding chair, one intact, 4 oz. glass instant coffee jar, a broken, unglazed terra cotta pipe, a brick wall or collar segment, concrete, fragments of glass and 2,000+ standard size, red, unmarked bricks, 1960s	2012	0.25-0.5	Unevaluated
188708	Historic Archeological Site	Santa Monica Public Schools Thematic District, 1924.	1993	Within	NR Eligible: Criterion A, and Criterion C
188709	Historic Archeological Site	McKinley Grammar School, 2401 Santa Monica Boulevard. Spanish Colonial Revival style, 1922	1993	Within	NR Eligible: 5D3 and Criterion A.1
189756	Historic Archeological Site	Single Family Residence. 1625 20th St. Spanish Eclectic, constructed 1927 and relocated 1954.	2008	0.25-0.5	NR Not Eligible; CR: Not Evaluated

Source: Cogstone 2022

In addition to the SCCIC records search, a variety of sources were consulted to obtain information regarding the cultural context of the Proposed Project's Site. Additional sources included listings of the NRHP, CRHR, California Points of Historical Interest (CPHI), and California Historical Landmarks (CHL). The Proposed Project's Site was not listed in any of these sources. Historic-period aerial photographs and maps were also reviewed as a part of the study. The Bureau of Land Management (BLM) General Land Office records indicated a positive report of land patents for Ramona, Sepulveda (Accession No. CACAAA 074985; Issued: 7/23/1881; Authority Grant-Spanish/Mexican).

The 2018 Santa Monica Citywide survey lists 1343-1345 Chelsea Avenue as eligible for listing as a Santa Monica Landmark as an excellent example of a 1920s duplex.

Sacred Lands File Search

A Sacred Lands File (SLF) search request to the Native American Heritage Commission (NAHC) on February 4, 2022. The NAHC responded on March 24, 2022, and indicated that there is positive result of sacred lands or resources known within the same USGS Quadrangle, Township, Range, and Section as the Proposed Project's Site. The NAHC also provided a consultation list of tribes that may have knowledge of cultural

resources and/or sacred lands within or near the Proposed Project's Site. See also Chapter 6, Other CEQA Considerations.

Tribal Consultation

In accordance with Assembly Bill (AB) 52 and PRC section 21080.3.1, the SMMUSD sent formal notification letters of the Proposed Project, dated January 5, 2023, to two Native American tribes that have requested notification from the District: the Gabrieleño Band of Mission Indians – Kizh Nation and the Torres Martinez Desert Cahuilla Indians. No responses were received from the Native American tribes. Therefore, consultation did not take place. No known resources within the campus area were identified as tribal cultural resources as defined in PRC section 21074.

Historical Resources Inventory

After Board Policy 7113 was adopted on February 17, 2021, a Historical Resources Inventory (HRI) was completed by Historic Resources Group (HRG) in 2022. The buildings and features of the McKinley ES campus were considered collectively for their potential eligibility for listing in the NRHP, the CRHP, and/or listing at the local level as a historic district. The findings were recorded in a Historic Resources Inventory Report, which is included as Appendix F1 of this DEIR. In March 2023, HRG prepared a Historic Resources Impact Assessment analyzing potential impacts to the historic district at McKinley ES. This analysis is provided in Section 5.3.3, Environmental Impacts below. The Historic Resources Impact Assessment is included as Appendix F2 of this DEIR.

Because the McKinley ES campus contains a grouping of related buildings and features, and was originally developed as a public school, consideration of this property as a historic district is an appropriate analytical framework for its evaluation.

The period of significance for McKinley ES spans from 1923 to 1937. This timeframe includes the original period of development on the campus by Allison & Allison to its rehabilitation by Parkinson & Parkinson following the Long Beach Earthquake. Contributing features are those buildings and features that were constructed during the period of significance and retain their integrity. Table 5.3-2, Features Included in the Historic District, identifies buildings and features dating from the period of significance (1923-1937) that are contributors to the historic district. The location of contributing buildings, site features, and additional features to the historic district as well as the campus boundary is shown in Figure 3-6, Historic District Boundary.

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Table 5.3-2 Features Included in the Historic District

Feature Name	Year Built	Integrity	Status
Building B	1923	Fair	Contributor
Building C	1923	Fair	Contributor
Santa Monica Boulevard Quad	1923	Good	Contributor
Main Courtyard	1923	Good	Contributor
"Storybook Land" Sculpture	1936	Very Good	Contributor
WPA Bronze Plaque	1937	Very Good	Contributor

Source: Historic Resources Group 2023.

McKinley ES contains a cohesive concentration of two contributing buildings, two contributing site features, and two contributing additional features that dates from the period of significance and has been identified as the historic district. These contributing resources within the boundaries of the historic district remain in their original locations in the southern region of the site, retaining spatial relationships and circulation patterns that have remained unchanged since the late 1920s when it was designed by Allison & Allison. Later development at the campus was tangentially situated to the west (1951) and east (c. 1973) of the contributing buildings.

Assessment of Integrity

Integrity of the property's individual features is varied, and all buildings and features have been subject to varying levels of alteration. However, despite some degree of alteration, the property retains much of the circulation pattern and spatial relationships established during the period of significance that characterize the historic district. A detailed assessment of the integrity of the historic district is discussed below.

Location. The buildings constructed during the period of significance remain in their original locations in the southeastern region of the campus. Therefore, the historic district retains integrity of location.

Design. The historic district retains most of the character-defining features of its original construction and subsequent development during the period of significance. Buildings constructed during the period of significance include Italian Renaissance Revival style buildings that are representative property types typical of design in the 1920s. In addition, the main courtyard and Santa Monica Boulevard Quad are also important features of the site, and reflect the importance given to outdoor spaces in school design from that period. Although some aspects of the design have been altered, such as the reconfiguration of the main entrance, a majority of the essential physical features reflecting the original design and organization of the property as a school from the 1920s to late 1930s, when the building was rehabilitated, remain intact within the historic district. Therefore, the historic district retains integrity of design.

Setting. The historic district is located in the southern region of the school property. Since the period of significance, the school has undergone periodic development, with the addition of two buildings (1951, c. 1973) to the east and west of the school. The property continues to function as a school and newer buildings have

been constructed for similar uses and functions; as a result, the historic district's immediate surroundings have retained the historic character and identity of a public elementary school. The surrounding area of Santa Monica has a whole has experienced consistent development since the school's establishment in the area in 1923. Particularly, some commercial development was expanded along Santa Monica Boulevard. However, the school's surrounding property uses of residential, educational, and commercial development remain intact. Thus, the historic district retains integrity of setting.

Materials. The historic district retains most of its original materials. Contributors retain most physical elements from the period of significance, including original cladding and detailing such as outdoor corridors. However, all contributors have been altered to some degree. Common alterations include infill additions and replacement of most, if not all, original doors and windows. Therefore, the historic district's integrity of materials has been compromised.

Workmanship. The historic district retains the physical evidence of workmanship. This includes the contributors' general massing, construction methods, and aesthetic principals. Moreover, most exterior cladding and even detail work have been retained. Overall, the buildings continue to retain substantial physical evidence of period construction techniques from initial construction in the 1920s and rehabilitation in the 1930s, including original finishes and design elements that reflect the character and identity of the historic district as the work of notable architects. Therefore, the historic district retains integrity of workmanship.

Feeling. The historic district retains most of the character-defining features of its original construction, including representative building types as well as spatial relationships and circulation patterns that are typical of campuses from this time. These essential physical features continue to convey the original aesthetic and historic sense of a small public school completed in the late 1920s. Thus, the historic district retains integrity of feeling.

Association. Because the historic district retains integrity of location, design, setting, workmanship, and feeling, it retains sufficient integrity to convey its significance as an Italian Renaissance Revival-style public school built during the growth of Santa Monica in the 1920s and rehabilitated following the 1933 Long Beach Earthquake. Therefore, the historic district retains integrity of association.

The integrity of each contributing resource was evaluated and given an assessment of Very Good, Good, or Fair. Integrity assessments and associated thresholds are described in greater detail below.

Buildings which have been given an assessment of Very Good possess the following characteristics (HRG 2022):

- Retain most or all of the seven aspects of integrity
- Exhibit the character-defining features of a distinct architectural style or type
- May exhibit minor alterations, including the replacement of some windows and/or entrance doors or the replacement of roofing material

Buildings which have been given an assessment of Good possess the following characteristics:

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- Retain most or all of the relevant aspects of integrity; likely retains integrity of design and/or workmanship
- May exhibit some character-defining features of a distinct architectural style or type
- May exhibit some degree of alteration, including the replacement of windows, entrance doors, railings, cladding, and/or roofing material, with generally compatible substitutes
- May include subsequent additions that do not disrupt the overall building form

Buildings which have been given an integrity assessment of Fair possess the following characteristics:

- Retain some of the relevant aspects of integrity, but may not retain integrity of design and/or workmanship
- Retain original building form, massing, and scale
- Exhibit multiple alterations, including the replacement of windows, entrance doors, cladding, and/or roofing material, possibly with incompatible substitutes
- May exhibit infill of some original windows and/or entrance doors and/or resizing of original window and door openings
- May include subsequent additions to primary and/or secondary facades, but the original building form is still discernible

Non-contributing buildings are those which were constructed outside the period of significance, or which date from the period of significance but lack sufficient integrity due to extensive alterations. These buildings may have retained the majority of their original massing and may remain in their original locations, and as such, they continue to convey the original plan and spatial relationships associated with the early school period, but ultimately lack the integrity to be considered contributors. Non-contributing resources that were constructed during the period of significance but no longer convey their historic identity due to substantial alteration are given an assessment of Poor.

Evaluation of Eligibility

Based on visual observation of the property, research of primary and secondary sources, and an analysis of the eligibility criteria for listing at the federal, state, and local levels, HRG identified a historic district at McKinley ES eligible for listing in the CR and for designation as a City of Santa Monica historic district. The historic district consists of two (2) contributing buildings, two (2) site features, and two (2) additional features with a period of significance from 1923 to 1937.

The historic district does not appear to be eligible for listing in the NRHP due to integrity considerations. The integrity of materials has been compromised by alterations, which include infill additions and the replacement of original doors and windows. For these reasons, the historic district does not appear to meet the criteria for listing on the NRHP (HRG 2022).

The historic district was determined to be significant under California Register Criterion 1/3 and City of Santa Monica Criterion 1/4-5. The historic district was found eligible for listing within the context of the pre-1933 institutional development in the City of Santa Monica, WPA associations, and for its Italian Renaissance Revival

design. The historic district has retained integrity of location, design, setting, feeling, workmanship, and association. While integrity of materials has been somewhat compromised by alterations, the CRHP and local designation do not require the same level of integrity as required for the NRHP. Therefore, the historic district retains sufficient integrity to convey its significance at the state level and local level. For these reasons, the historic district appears to meet the criteria for listing on the CRHP and in the city of Santa Monica (HRG 2022).

Character Defining Features

Source: Historic Resources Group 2022.

Character-defining features are distinctive elements and physical features that convey the historical appearance of a property and are required for it to convey its historical significance. According to Preservation Brief 17, there is a stepped process to identifying character-defining features (HRG 2022). The first step involves assessing the distinguishing physical aspects of the building. This second step involves examining the building more closely. While on their own each of the elements above may not convey historical significance, in combination they define the property and convey the associations for which it is significant. Table 5.3-3, Character Defining Features, provides the character-defining features of each contributing resource to the historic district.

Table 5.3-3 Character Defining Features

Feature Name	Shape/Form	Roof	Openings	Projections	Trim and Secondary Features	Materials	Setting
Building B	-Rectangular Plan -2-story height	-Gable roof	-Original door and window openings -Tripartite arched vents	-Courtyard patio	-	-Smooth stucco exterior -Red clay roof tiles	-Location and proximity to Building C
Building C	-Irregular, 'F'- shaped plan -1- to 2-story height -Central body with four wings	-Gable roof with vent dormers	-Original arched window openings -Tapered chimney	-Front-gabled bays -Tapered chimney	-Blind arch -Terracotta medallions/ cartouches -Pilasters and Solomonic column -Stringcourse -Arched windows	-Smooth stucco exterior -Terracotta cartouche	-Setback from 14th Street -Location and proximity to other contributing buildings
Santa Monica Boulevard Quad	-Rectangular shape	-	-	-	-	-	-Setback from Santa Monica Blvd. -Location and proximity to contributing buildings
Main Courtyard	-Rectangular shape -Central sculpture and pedestal	-	-	-	-	-	-Proximity to Buildings B and C

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5.3.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would:

- C-1 Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5.
- C-2 Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5.
- C-3 Disturb any human remains, including those interred outside of dedicated cemeteries.

The IS/NOP, included as Appendix B, substantiates that impacts associated with the following thresholds would be less than significant; therefore, these impacts will not be further addressed in this DEIR:

■ Threshold C-3

These impacts are addressed in Chapter 6, Other CEQA Considerations, and in Appendix B of this DEIR.

5.3.3 Environmental Impacts

The following impact analysis addresses thresholds of significance for which the Initial Study/Notice of Preparation disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.3-1: The Proposed Project would not cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5. [Threshold C-1]

As discussed in Section 5.3.1.6, Cultural Resources within the Project Area, HRG conducted an analysis of potential impacts to the historic district as McKinley ES from Project implementation (HRG 2023). The Proposed Project would include renovations, modernizations, and new construction on the campus, in addition to the demolition of non-contributing buildings and structures. The Proposed Project includes the demolition of one modular Building D and eleven portables that are located outside of the historic district (see Figure 3-6). Because Building D and the portable buildings are located outside of the historic district, the overall integrity of the historic district would be retained following implementation of the Proposed Project. The historic district would remain eligible for listing in the California Register and for designation as a City of Santa Monica Landmark under Criteria 1/1 and 3/4-5. Therefore, the Proposed Project would not result in the demolition of a significant resource. The historic district would retain eligibility following demolition of Building D.

The Proposed Project involves the construction of two new two-story classroom building that would replace the 11 portable classrooms and would be constructed in the location of the former parking lot. The new classroom building would be located outside of the historic district, to the east of Buildings B and C, and sited on Chelsea Avenue along the northeastern perimeter of the campus.

The on-site historical resources (see Figure 3-6) would be susceptible to vibration impacts. As described in Section 5.10, Noise, the FTA vibration damage criterion for historical structures is 0.12 in/sec PPV, which this analysis uses as the limit for to identify impact significance. However, all construction equipment that is anticipated to be used within 25 feet of these historical resources would generate vibration levels similar to those identified in Table 5.10-9 and would not involve the use of a vibratory roller. Therefore, vibration levels would be less than 0.12 in/sec PPV at the historical structural facades. Impacts would be less than significant.

The new classroom building would be visible from the northeast edge of the campus along Chelsea Avenue. The view of the school would be altered from the public right-of-way along this street, as the new building would be placed in front of the historic wing of Building C. Building C would remain intact but would be sited behind the new building. New construction would not disrupt or alter the appearance of the campus along Santa Monica Boulevard. The primary façade of Building C, which faces onto Santa Monica Boulevard, served as the historic primary entrance to the campus. This region of the campus also features the Santa Monica Boulevard Quad, which maintains original landscaping and circulation paths. The campus would continue to retain its historic appearance from the public right-of-way along Santa Monica Boulevard.

The new classroom building would be compatible in size, scale, proportion, and massing to Buildings B and C. With a proposed height of approximately 38 feet the new classroom building would be shorter than Building B and C. The new building would therefore be comparable to the existing buildings' height and would not introduce substantial new verticality to the site. The front arched loggia of the classroom building would have a height of approximately 22 feet and would be modest in scale as viewed from the sidewalk on Chelsea Avenue.

The new classroom buildings would have a 32-foot separation from Buildings Band C; this space would be landscaped to serve as a new East Courtyard. The new classroom buildings would be constructed as a separate and distinct building that would be physically and visually separated from the new courtyard. The historic facades of Buildings B and C would continue to be visible from the new courtyard. Physical connection of the new classroom buildings to existing Buildings B and C would be limited to connecting open walkways attached at the second floor. Both walkways would attach with minimal intrusion or alteration of the contributing buildings. As such, the new construction does not substantially alter or destroy historic materials, features, or affect important spatial relationship between contributing buildings.

The new classroom buildings would be compatible with historic design, style, and materials on the campus. The new buildings would have simple, opaque white surfaces, gable terra cotta roofs, and arched loggias. The contributors to the historic district and new construction exhibit similar designs with low massing, smooth surfaces, and decorative detailing.

New building construction would be outside of the historic district and is separated from contributors to the historic district by open spaces and/or landscaping. New work would be differentiated from the old and would be compatible with the historic materials, features, size, scale and proportion, and massing. The essential form and integrity of the historic district would be unimpaired if the new construction were removed in the future.

The Proposed Project would renovate the library and administration spaces in Building C a contributor to the historic district. An addition would also be added on the northwest façade of Building C to accommodate a new elevator and stair core for Buildings B and C. Alterations would include the replacement of some

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nonoriginal windows and doors. Otherwise, the renovations are limited to interior work, and the Proposed Project would not increase the library area size. Improvements would be limited to new floor framing, new ceiling and casework, upgraded lighting, new electric and data systems, and modifications to the heating ventilation air conditions (HVAC) system. As such, these renovations would be minimal to Building C's historic fabric.

The Proposed Project would retain the character-defining features on contributing buildings and would preserve those features which convey the school's historical and architectural values. Therefore, the Proposed Project would not result in a major change to the physical significance of contributors to the historic district on the Proposed Project's Site.

The Proposed Project does not propose any demolition, construction, or rehabilitation that reduces the integrity or significance of the property at 1343-1345 Chelsea Avenue. While the property at 1343-1345 Chelsea Avenue is located within close visual proximity to the Proposed Project's Site, the Proposed Project is not proposing significant height or density that would impact the setting or other characteristics of the property. The proposed new construction is two-stories in height and would be compatible with the historic materials, features, size, scale and proportion, and massing the existing resources on-site. The Proposed Project's Site would retain an educational use, and its character-defining features would be visible from the public right-of-way. The Proposed Project's Site would maintain the same relationship with the surrounding neighborhood as it did historically in the 1920s. The Proposed Project would not affect nearby historic resources' eligibility for listing at the federal, State, or local levels.

Implementation of the Proposed Project would not materially alter in an adverse manner the physical characteristics that convey the historical significance of the historic district. Therefore, impacts to historical resources would be **less than significant**.

Impact 5.3-2: The Proposed Project would not cause a substantial adverse change in the significance of an archaeological resources pursuant to Section 15064.5.

The SCCIC records search results indicate that no previously conducted studies or previously recorded archaeological sites were identified within the campus. Only built-environment features have been identified within the half-mile search radius. Although the majority of the campus has already been subjected to grading activities associated with existing development, the campus may still contain buried deposits in undeveloped areas and in sediments that are located beneath the previous level of disturbance. Construction of the Proposed Project would involve ground disturbance, earthwork, and excavation across portions of the site. Therefore, there is a potential for unknown buried resources to be uncovered during ground-disturbing activities, and impacts are considered **potentially significant**. Implementation of **Mitigation Measure CUL-1** would reduce impacts to less than significant levels.

5.3.4 Mitigation Measures

Impact 5.3-2

CUL-1

Prior to issuance of any permits allowing ground-disturbing activities for the Project (for each individual phase of the Project), the District shall ensure that an archaeologist who meets the Secretary of the Interior's standards for professional archaeology has been retained for the Project and will be on-call during all grading and other significant ground-disturbing activities. The Qualified Archaeologist shall ensure that the following measures are followed for the Project:

- Prior to any ground disturbance, the Qualified Archaeologist, or their designee, shall provide worker environmental awareness protection training to construction personnel regarding regulatory requirements for the protection of cultural (prehistoric and historic) resources. As part of this training, construction personnel shall be briefed on proper procedures to follow should unanticipated cultural or paleontological resources be made during construction.
- In the event that a prehistoric archeological site (such as any unusual amounts of stone, bone, or shell) or a historic-period archaeological site (such as concentrated deposits of bottles or bricks, amethyst glass, or other historic refuse), is uncovered during grading or other construction activities, all ground-disturbing activity within 50 feet of the discovery shall be halted. The District shall be notified of the potential find and a qualified archeologist shall be retained to investigate its significance.
- If significant Native American cultural resources are discovered for which a treatment plan must be prepared the project applicant or the archaeologist on call shall contact the applicable Native American tribal contact(s). If requested by the Native American tribe(s), the project applicant or archaeologist on call shall, in good faith, consult on the discovery and its disposition (e.g., avoidance, preservation, reburial, return of artifacts to tribe).
- Any previously undiscovered resources found during construction will be recorded on appropriate California Department of Parks and Recreation 523 forms and evaluated for significance under all applicable regulatory criteria. If the archaeologist determines that the find does not meet the CRHR standards of significance, construction may proceed. If the find is determined to be significant by the qualified archaeologist (i.e., because the find is determined to constitute either an historical resource or a unique archaeological resource), the archaeologist shall work with the District to follow accepted professional standards such as further testing for evaluation or data recovery, as necessary. The results of the identification, evaluation, and/or data recovery program for any unanticipated discoveries shall be presented in a professional-quality report that details all methods and findings, evaluates the nature and significance of the resources, and analyzes and interprets the results.

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5.3.5 Level of Significance After Mitigation

Mitigation Measure CUL-1 would be implemented as part of the Proposed Project and would require cultural resources sensitivity training for construction workers, avoidance of any previously unidentified archaeological sites, and appropriate treatment of unearthed archaeological resources during construction. Potential impacts to unknown resources would be mitigated to less than significant through the implementation of Mitigation Measure CUL-1.

5.3.6 Cumulative Impacts

Development of the Proposed Project and related projects have the potential to encounter and potentially degrade historic resources and cultural resources. However, similar to the Proposed Project, each related project would be expected to comply with PRC Section 15064.5, perform site-specific cultural analyses, implement mitigation measures if needed, and comply with other applicable regulatory compliance measures. The Proposed Project would not result in an adverse change in the significance of a historical resource. The Proposed Project's Site does not contain known archeological resources or human remains. However, because the Proposed Project would conduct earthwork activities on previously undisturbed portions of the Proposed Project's Site, the Proposed Project would require mitigation measures to minimize its impact to potential archeological materials to a less than significant level and reduce the potential for the project to contribute to cumulative impacts to cultural resources. Therefore, the Proposed Project's contribution to cumulative cultural resource impacts would be considered less than cumulatively considerable, and the Proposed Project's impacts would be less than significant.

5.3.7 References

Cogstone. 2022, August. Archaeological and Paleontological Resources Assessment for the McKinley Elementary School Campus Master Plan Project, City of Santa Monica, Los Angeles County, California.
 Historic Resources Group (HRG), 2022, McKinley Elementary School Campus Plan Project Historical Resources Inventory Report, Historic Resources Group, January
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5. Environmental Analysis

5.4 ENERGY

This section of the Draft Environmental Impact Report (DEIR) evaluates the potential for energy-related impacts associated with the McKinley Elementary School Campus Master Plan (Proposed Project) and ways in which it would reduce unnecessary energy consumption, consistent with the suggestions in Appendix F of the CEQA Guidelines. Energy service providers to the McKinley ES campus include Southern California Edison (SCE) for electrical service and Southern California Gas Company (SoCalGas) for natural gas. Energy calculations for the Proposed Project are in Appendix G of this DEIR.

During the Initial Study/Notice of Preparation (IS/NOP) public review period a California Environmental Quality Act (CEQA) scoping meeting was conducted on January 31, 2023, where questions regarding the use of electric and/or solar utility systems were raised. The IS/NOP and all scoping comment letters are included as Appendices B and C of this document.

5.4.1 Environmental Setting

Section 21100(b)(3) of the CEQA Guidelines requires that an EIR include a detailed description of mitigation measures proposed to minimize significant effects on the environment, including but not limited to, measures to reduce the wasteful, inefficient, and unnecessary consumption of energy. Appendix F of the State CEQA Guidelines states that, to ensure that energy implications are considered in project decisions, the potential energy implications of a project shall be considered in an EIR, to the extent relevant and applicable to the project. Appendix F further states that a project's energy consumption and proposed conservation measures may be addressed, as relevant and applicable, in the project description, environmental setting, and impact analysis portions of technical sections as well as through mitigation measures and alternatives.

In accordance with Appendices G and F of the State CEQA Guidelines, this DEIR includes relevant information and analyses that address the energy implications of the Proposed Project. This section summarizes the Proposed Project's anticipated energy needs, impacts, and conservation measures. Other aspects of the Proposed Project's energy implications are discussed elsewhere in this DEIR, including Chapter 3, *Project Description*, and Sections 5.2, *Air Quality*; and 5.6, *Greenhouse Gas Emissions*.

5.4.1.1 REGULATORY BACKGROUND

Federal Regulations

Federal Energy Policy and Conservation Act

The Energy Policy and Conservation Act of 1975 was established in response to the 1973 oil crisis. The act created the Strategic Petroleum Reserve, established vehicle fuel economy standards, and prohibited the export of US crude oil (with a few limited exceptions). It also created Corporate Average Fuel Economy (CAFE) standards for passenger cars starting in model year 1978. The CAFE standards are updated periodically to account for changes in vehicle technologies, driver behavior, and/or driving conditions.

The federal government issued new CAFE standards in 2012 for model years 2017 to 2025 that required a fleet average of 54.5 miles per gallon (mpg) for model year 2025. However, on March 30, 2020, the US Environmental Protection Agency (EPA) finalized an updated CAFE and greenhouse gas (GHG) emissions standards for passenger cars and light trucks and established new standards covering model years 2021 through 2026, known as the Safer Affordable Fuel Efficient (SAFE) Vehicles Final Rule for Model Years 2021–2026. Under SAFE, the fuel economy standards will increase 1.5 percent per year compared to the 5 percent per year under the CAFE standards established in 2012. Overall, SAFE requires a fleet average of 40.4 mpg for model year 2026 vehicles (85 Federal Register 24174 (April 30, 2020)).

On December 21, 2021, under direction of Executive Order (EO) 13990 issued by President Biden, the National Highway Traffic Safety Administration repealed Safer Affordable Fuel Efficient Vehicles Rule Part One, which had preempted state and local laws related to fuel economy standards. In addition, on March 31, 2022, the National Highway Traffic Safety Administration finalized new fuel standards in response to EO 13990. Fuel efficiency under the standards proposed will increase 8 percent annually for model years 2024 to 2025 and 10 percent annually for model year 2026. Overall, the new CAFE standards require a fleet average of 49 MPG for passenger vehicles and light trucks for model year 2026, which would be a 10 MPG increase relative to model year 2021 (NHTSA 2022).

Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 (Public Law 110-140) seeks to provide the nation with greater energy independence and security by increasing the production of clean renewable fuels; improving vehicle fuel economy; and increasing the efficiency of products, buildings, and vehicles. It also seeks to improve the energy performance of the federal government. The Act set higher CAFE standards; the Renewable Fuel Standard; appliance energy efficiency standards; building energy efficiency standards; and accelerated research and development tasks on renewable energy sources (e.g., solar energy, geothermal energy, and marine and hydrokinetic renewable energy technologies), carbon capture, and sequestration (USEPA 2022).

Energy Policy Act of 2005

Passed by Congress in July 2005, the Energy Policy Act includes a comprehensive set of provisions to address energy issues. This Act includes tax incentives for energy conservation improvements in commercial and residential buildings, fossil fuel production and clean coal facilities, and construction and operation of nuclear power plants, among other things. Subsidies are also included for geothermal, wind energy, and other alternative energy producers.

National Energy Policy

Established in 2001 by the National Energy Policy Development Group, the National Energy Policy is designed to help the private sector and state and local governments promote dependable, affordable, and environmentally sound production and distribution of energy for the future. Key issues addressed by the energy policy are energy conservation, repair and expansion of energy infrastructure, and ways of increasing energy supplies while protecting the environment.

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5. Environmental Analysis

Natural Gas Pipeline Safety Act of 1968

The Natural Gas Pipeline Safety Act of 1968 authorizes the United States Department of Transportation to regulate pipeline transportation of flammable, toxic, or corrosive natural gas and other gases as well as the transportation and storage of liquefied natural gas. The Pipeline and Hazardous Materials Safety Administration within the Department of Transportation develops and enforces regulations for the safe, reliable, and environmentally sound operation of the nation's 2.6-million-mile pipeline transportation system.

State Regulations

California Energy Commission

The California Energy Commission (CEC) was created in 1974 under the Warren-Alquist Act as the State's principal energy planning organization to meet the energy challenges facing the state in response to the 1973 oil embargo. The CEC is charged with six basic responsibilities when designing state energy policy:

- Forecast statewide electricity needs.
- License power plants to meet those needs.
- Promote energy conservation and efficiency measures.
- Develop renewable energy resources and alternative energy technologies.
- Promote research, development and demonstration.
- Plan for and direct the state's response to energy emergencies.

California Public Utilities Commission

In September 2008, the California Public Utilities Commission (CPUC) adopted the Long-Term Energy Efficiency Strategic Plan, which provides a framework for energy efficiency in California through the year 2020 and beyond. It articulates a long-term vision, as well as goals for each economic sector, identifying specific near-term, mid-term, and long-term strategies to assist in achieving these goals. This Plan sets forth the following four goals, known as Big Bold Energy Efficiency Strategies, to achieve significant reductions in energy demand:

- All new residential construction in California will be zero net energy by 2020;
- All new commercial construction in California will be zero net energy by 2030;
- Heating, Ventilation and Air Conditioning (HVAC) will be transformed to ensure that its energy performance is optimal for California's climate; and
- All eligible low-income customers will be given the opportunity to participate in the low-income energy efficiency program by 2020.

With respect to the commercial sector, the Long-Term Energy Efficiency Strategic Plan notes that commercial buildings, which include schools, hospitals, and public buildings, consume more electricity than any other end-use sector in California. The commercial sector's five billion-plus square feet of space accounts

for 38 percent of the State's power use and over 25 percent of natural gas consumption. Lighting, cooling, refrigeration, and ventilation account for 75 percent of all commercial electric use, while space heating, water heating, and cooking account for over 90 percent of gas use. In 2006, schools and colleges were in the top five facility types for electricity and gas consumption, accounting for approximately 10 percent of State's electricity and gas use.

The CPUC and CEC have adopted the following goals to achieve zero net energy (ZNE) levels by 2030 in the commercial sector:

- Goal 1: New construction will increasingly embrace zero net energy performance (including clean, distributed generation), reaching 100 percent penetration of new starts in 2030.
- **Goal 2:** 50 percent of existing buildings will be retrofit to zero net energy by 2030 through achievement of deep levels of energy efficiency and with the addition of clean distributed generation.
- Goal 3: Transform the commercial lighting market through technological advancement and innovative utility initiatives.

Renewables Portfolio Standard

Senate Bills 1078, 107, X1-2, and Executive Order S-14-08

The California Renewables Portfolio Standard (RPS) Program was established in 2002 under SB 1078 (Sher) and 107 (Simitian). The RPS program required investor-owned utilities, electric service providers, and community choice aggregators to increase the use of eligible renewable energy resources to 33 percent of total procurement by 2020. Initially under the RPS, certain retail sellers of electricity were required to increase the amount of renewable energy each year by at least 1 percent in order to reach at least 20 percent by December 30, 2010. EO S-14-08 was signed in November 2008, which expanded the state's Renewable Energy Standard to 33 percent renewable power by 2020. This standard was adopted by the legislature in 2011 (SB X1-2). The California Public Utilities Commission (CPUC) is required to provide quarterly progress reports on progress toward RPS goals. This has accelerated the development of renewable energy projects throughout the state. For year 2020, the three largest retail energy utilities provided an average of 43 percent of their supplies from renewable energy sources. Community choice aggregators provided an average of 41 percent of their supplies from renewable sources (CPUC 2021).

Senate Bill 350

Governor Jerry Brown signed SB 350 on October 7, 2015, which expands the RPS by establishing a goal of 50 percent of the total electricity sold to retail customers in California per year by December 31, 2030. In addition, SB 350 includes the goal to double the energy efficiency savings in electricity and natural gas final end uses (such as heating, cooling, lighting, or class of energy uses upon which an energy efficiency program is focused) of retail customers through energy conservation and efficiency. The bill also requires the CPUC, in consultation with the CEC, to establish efficiency targets for electrical and gas corporations consistent with this goal. SB 350 also provides for the transformation of the California Independent System Operator into a regional organization to promote the development of regional electricity transmission markets in the western

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states and to improve the access of consumers served by the California Independent System Operator to those markets, pursuant to a specified process.

Senate Bill 100

On September 10, 2018, Governor Brown signed SB 100, which replaces the SB 350 requirements. Under SB 100, the RPS for public-owned facilities and retail sellers consist of 44 percent renewable energy by 2024, 52 percent by 2027, and 60 percent by 2030. SB 100 also established a new RPS requirement of 50 percent by 2026. Furthermore, the bill establishes an overall state policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all state agencies by December 31, 2045. Under the bill, the state cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Senate Bill 1020

SB 1020 was signed into law on September 16, 2022. It requires renewable energy and zero-carbon resources to supply 90 percent of all retail electricity sales by 2035 and 95 percent by 2040. Additionally, SB 1020 requires all state agencies to procure 100 percent of electricity from renewable energy and zero-carbon resources by 2035.

Appliance Efficiency Regulations

California's Appliance Efficiency Regulations contain energy performance, energy design, water performance, and water design standards for appliances (including refrigerators, ice makers, vending machines, freezers, water heaters, fans, boilers, washing machines, dryers, air conditioners, pool equipment, and plumbing fittings) that are sold or offered for sale in California (California Code of Regulations [CCR] Title 20, Parts 1600–1608). These standards are updated regularly to allow consideration of new energy efficiency technologies and methods (CEC 2017).

Title 24, Part 6, Energy Efficiency Standards

Energy conservation standards for new residential and nonresidential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the CEC) in June 1977 (Title 24, Part 6, of the California Code of Regulations [CCR]). Title 24 requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods.

On August 11, 2021, the CEC adopted the 2022 Building Energy Efficiency Standards, which were subsequently approved by the California Building Standards Commission in December 2021. The 2022 standards went into effect on January 1, 2023, replacing the existing 2019 standards. The 2022 standards would require mixed-fuel single-family homes to be electric-ready to accommodate replacement of gas appliances with electric appliances. In addition, the new standards also include prescriptive photovoltaic system and battery requirements for high-rise, multifamily buildings (i.e., more than three stories) and noncommercial buildings such as hotels, offices, medical offices, restaurants, retail stores, schools, warehouses, theaters, and convention centers (CEC 2021).

Title 24, Part 11, Green Building Standards

On July 17, 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (24 CCR, Part 11, known as "CALGreen") was adopted as part of the California Building Standards Code. CALGreen established planning and design standards for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. The mandatory provisions of CALGreen became effective January 1, 2011. In 2021, the CEC approved the 2022 CALGreen, which went into effect on January 1, 2023, replacing the existing 2019 standards.

Assembly Bill 1493

California vehicle GHG emission standards were enacted under AB 1493 (Pavley I). Pavley I is a clean-car standard that reduces GHG emissions from new passenger vehicles (light-duty auto to medium-duty vehicles) from 2009 through 2016 and is anticipated to reduce GHG emissions from new passenger vehicles by 30 percent in 2016. California implements the Pavley I standards through a waiver granted to California by the EPA. In 2012, the EPA issued a Final Rulemaking that sets even more stringent fuel economy and GHG emissions standards for model year 2017 through 2025 light-duty vehicles (see also the discussion on the update to the CAFE standards under *Federal*, above). In January 2012, the California Air Resources Board approved the Pavley Advanced Clean Cars program (formerly known as Pavley II) for model years 2017 through 2025. The program combines the control of smog, soot, and global warming gases and requirements for greater numbers of zero-emission vehicles into a single package of standards. Under California's Advanced Clean Car program, by 2025, new automobiles will emit 34 percent fewer global warming gases and 75 percent fewer smog-forming emissions (CARB 2017).

Executive Order N-79-20

On September 23, 2020, EO N-79-20 was issued to set a time frame for the transition to zero-emissions (ZE) passenger vehicles, trucks, and off-road equipment. It directs the California Air Resources Board to develop and propose:

- Passenger vehicle and truck regulations requiring increasing volumes of new ZEVs (zero-emission vehicles) sold in the California toward the target of 100 percent of in-state sales by 2035.
- Medium- and heavy-duty vehicle regulations requiring increasing volumes of new ZE trucks and buses sold and operated in California toward the target of 100 percent of the fleet transitioning to ZEVs by 2045 everywhere feasible, and for all drayage trucks to be ZE by 2035.
- Strategies to achieve 100 percent zero emissions from all off-road vehicles and equipment operations in California by 2035, in cooperation with other state agencies, the EPA, and local air districts.

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¹ The green building standards became mandatory in the 2010 edition of the code.

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Regional

SCAG's 2016-2040 RTP/SCS

The 2020-2045 RTP/SCS, Connect SoCal, was adopted on September 3, 2020, and is an update to the 2016-2040 RTP/SCS (SCAG 2020). In general, the RTP/SCS outlines a development pattern for the region that, when integrated with the transportation network and other transportation measures and policies, would reduce VMT from automobiles and light duty trucks and thereby reduce energy consumption from these sources.

Connect SoCal focuses on the continued efforts of the previous RTP/SCSs to integrate transportation and land use strategies in development of the SCAG region through the horizon year 2045 (SCAG 2020). It forecasts that implementation of the plan will reduce VMT per capita in year 2045 by 4.1 percent compared to baseline conditions for that year. Connect SoCal includes a "Core Vision" that centers on maintaining and better managing the transportation network for moving people and goods, while expanding mobility choices by locating housing, jobs, and transit closer together; and increasing investments in transit and complete streets (SCAG 2020).

Local

Santa Monica – Malibu Unified School District Districtwide Plan for Sustainability

The District adopted its Districtwide Plan for Sustainability (Sustainability Plan) in 2019 to provide a strategic roadmap for formalizing and uniting the District's many existing sustainability initiatives; incorporating sustainability into Education Services and all aspects of student learning; and integrating climate protection, resource efficiency, waste management, and other sustainability practices into District operations. The Sustainability Plan establishes a framework for assessment and progress on each focus area by documenting baseline conditions, establishing key goals and performance indicators, highlighting current initiatives and best practices, recommending improvement strategies, and anticipating project costs and funding mechanisms (SMMUSD 2019). The Sustainability Plan builds on and advances the District's existing sustainability commitments by identifying goals and recommended strategies over the following eight sustainability focus areas: climate, education and engagement, energy efficiency and renewable, water, solid waste, transportation, food, nutrition and wellness, green building and operations.

5.4.1.2 EXISTING CONDITIONS

Electricity

The campus is in SCE's service area, which spans much of Southern California—from Orange and Riverside counties in the south to Santa Barbara County in the west to Mono County in the north (CEC 2022a). Total electricity consumption in SCE's service area was 103,597 gigawatt-hours in 2020 (CEC 2022c). Sources of electricity sold by SCE in 2020, the latest year for which data are available, were:

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² One gigawatt-hour is equivalent to one million kilowatt-hours.

- 30.9 percent renewable, consisting mostly of solar and wind
- 3.3 percent large hydroelectric
- 15.2 percent natural gas
- 8.4 percent nuclear
- 0.3 percent other
- 42.0 percent unspecified sources—that is, not traceable to specific sources (CEC 2022d)³

The McKinley ES campus generates electricity demand from uses such as heating, cooling, and ventilation of buildings; operation of electrical systems; lighting; and use of on-site equipment and appliances. Electricity use data from CalEEMod is based on information provided by the District. The existing campus consumes approximately 213,216 kWh per year.⁴ Existing estimated electricity consumption for the campus is shown in Table 5.4-1, Existing Campus Electricity Consumption.

Table 5.4-1 Existing Campus Electricity Consumption

Land Use	Electricity (kWh/year)		
Elementary School	213,216		
kWh = kilowatt-hour			

Gas

SoCalGas provides gas service in the City of Santa Monica, including the McKinley ES campus. The service area of SoCalGas spans much of the southern half of California, from Imperial County in the southeast to San Luis Obispo County in the northwest to part of Fresno County in the north to Riverside County and most of San Bernardino County in the east (CEC 2022b). Total natural gas consumption in SoCalGas's service area was 691,096 million cubic feet for 2020 (CEC 2022e). The McKinley ES campus generates natural gas demand from uses such as building heating, and water heating. Natural gas use data from CalEEMod is based on information provided by the District. The existing campus consumes approximately 334,400 kBTU per year. ⁵ Existing estimated natural gas consumption for the campus is shown in Table 5.5-2, Existing Campus Natural Gas Consumption.

Table 5.4-2 Existing Campus Natural Gas Consumption

Land Use	Natural Gas (kBTU/year)
Elementary School	334,400
kBTU = kilo-British thermal unit	

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³ The electricity sources listed reflect changes after the 2013 closure of the San Onofre Nuclear Generating Station, which is owned by SCF.

⁴ Based on information provided by the District for year 2019.

⁵ Based on information provided by the District for year 2019.

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Fuel Consumption

California is among the top producers of petroleum in the country, with crude oil pipelines throughout the state connecting to oil refineries in the Los Angeles, the San Francisco Bay, and the Central Valley regions. In addition to producing petroleum, California is also one of the top consumers of fuel for transportation. With this sector accounting for approximately 35 percent of California's total energy demand in 2020, amounting to approximately 2,355.5 trillion British Thermal Units (BTU) (US EIA 2020a). In addition, in 2020, California's transportation sector consumed approximately 433 million barrels of petroleum fuels (US EIA 2020b). Furthermore, according to the California Energy Commission, California's 2021 fuel sales were approximately 13,818 million gallons of gasoline and 3,744 million gallons of diesel (CEC 2022f). In Los Angeles County, approximately 3,061 million gallons of gasoline and 224 million gallons of diesel fuel were sold in 2021 (CEC 2022g).

5.4.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would:

- E-1 Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.
- E-2 Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

5.4.3 Environmental Impacts

5.4.3.1 METHODOLOGY

The Proposed Project's Design Features

The Proposed Project would include features that would reduce criteria air pollutant emissions:

■ **PDF ENE-1.** New buildings are required to achieve the current California Building Energy and Efficiency Standards (Title 24, Part 6) and CALGreen (Title 24, Part 11).

Based on CEQA Guidelines Appendix F, *Energy Conservation*, in order to ensure energy implications are considered in project decisions, CEQA requires that EIRs include a discussion of the potential impacts of proposed projects, with particular emphasis on avoiding or reducing wasteful, unnecessary, or inefficient use of energy resources, which would include decreasing overall per capita energy consumption; decreasing reliance on fossil fuels such as coal, natural gas, and oil; and increasing reliance on renewable energy sources. Environmental effects may include the Proposed Project's energy requirements and its energy use efficiencies by amount and fuel type during demolition, construction, and operation; the effects of the Proposed Project on local and regional energy supplies; the effects of the Proposed Project on peak and base period demands for electricity and other forms of energy; the degree to which the Proposed Project complies with existing energy standards; the effects of the Proposed Project on energy resources; and the Proposed Project's projected transportation energy use requirements and its overall use of efficient transportation alternatives, if

applicable. The provided energy and fuel usage information provided in this section are based on the following:

- Building Energy. CalEEMod default energy rates, which are based on the CEC's 2018-2030 Uncalibrated Commercial Sector Forecast and the 2019 Residential Appliance Saturation Survey (RASS), are used to quantify electricity and natural gas use. Use of the CalEEMod default energy rates results in conservative estimates compared to the recently adopted 2022 Building Energy Efficiency Standards because the 2019 RASS accounted for energy data for homes built between 1935 to 2015 with an average construction year of 1974. It is anticipated new buildings under the 2022 Standards would generally result in lower electricity use. Furthermore, the carbon intensity factor is based on the carbon dioxide equivalent (CO₂e) intensity factor of 452 pounds per megawatt hour (lbs./MWh) as reported in Southern California Edison's 2021 Sustainability Report (SCE 2022). Overall, using the fourth assessment report global warming potentials (AR4 GWPs) and the default CalEEMod intensity factors of 0.033 lb./MWh for methane (CH₄) and 0.004 lb./MWh for nitrous oxide (N₂O), the adjusted intensity factor for CO₂ is 449.98 lbs./MWh.
- Construction Fuel Usage. Fuel usage associated with construction-related vehicle trips fuel usage data was obtained from EMFAC2021, Version 1.0.3, and OFFROAD2021, Version 1.0.1. Construction equipment data was obtained from the District. Where specific information regarding proposed project-related construction activities was not available, construction assumptions were based on CalEEMod defaults.

5.4.3.2 IMPACT ANALYSIS

The following impact analysis addresses thresholds of significance for which the Initial Study/Notice of Preparation disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.4-1: Implementation of the Proposed Project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation. [Threshold E-1]

Short-Term Construction Impacts

Construction of development associated with the Proposed Project would create temporary increased demands for electricity and vehicle fuels compared to existing conditions and would result in short-term transportation-related energy use.

Electrical Energy

Construction activities associated with the Proposed Project would require electricity to power the construction equipment. The electricity use during construction would vary during different phases of construction. The majority of construction equipment during demolition and grading would be gas or diesel powered, and the later construction phases would require electricity-powered equipment for interior

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construction and architectural coatings. Overall, the use of electricity would be temporary in nature and would fluctuate according to the phase of construction. Additionally, it is anticipated that the majority of electric-powered construction equipment would be hand tools (e.g., power drills, table saws, compressors) and lighting, which would result in minimal electricity usage during construction activities. Therefore, construction activities of the Proposed Project would not result in wasteful, inefficient, or unnecessary electricity demands as electricity consumption would be limited to tasks necessary to complete project construction, and impacts would be **less than significant**.

Natural Gas Energy

It is not anticipated that construction equipment used for development accommodated by the Proposed Project would be powered by natural gas, and no natural gas demand is anticipated during construction. Therefore, **no impact** is anticipated with respect to natural gas usage during the Proposed Project's construction.

Liquid Fuels and Transportation Energy

Transportation energy use depends on the type and number of trips, vehicle miles traveled (VMT), fuel efficiency of vehicles, and travel mode. Additionally, transportation energy use during construction would come from the transport and use of construction equipment, delivery vehicles and haul trucks, and construction employee vehicles that would use diesel fuel and/or gasoline. Energy consumption for each of the three phases of construction was calculated using the CalEEMod (Version 2022.1) computer model and data from the EMFAC2021, Version 1.0.3, and OFFROAD2021, Version 1.0.1, databases. The results are shown in Table 5.4-3, *Construction-Related Fuel Usage*.

Table 5.4-3 Construction-Related Fuel Usage

	Gas		Diesel		Electricity	
Project Component	VMT	Gallons	VMT	Gallons	VMT	kWh
Construction Worker Commute	196,060	7,494	257	8	6,203	2,266
Construction Vendor Trips	5,343	1,017	39,173	5,402	0	0
Construction Truck Haul Trips	4	1	9,571	1,555	0	0
Construction Off-Road Equipment	N/A	0	N/A	108,614	N/A	0
Total	201,406	8,511	49,000	115,578	6,203	2,266

Source: CalEEMod Version 2022.1; EMFAC2021, Version 1.0.3, and OFFROAD2021, Version 1.0.1. Notes: VMT = vehicle miles traveled; kWh = kilowatt hour

The use of energy resources by these vehicles would fluctuate according to the phase of construction and would be temporary. It is anticipated that the majority of off-road construction equipment, such as those used during demolition and grading, would be gas or diesel powered. In addition, all construction equipment would cease operating upon completion of the Proposed Project's construction. Thus, impacts related to transportation energy use during construction would be temporary and would not require expanded energy supplies or the construction of new infrastructure. Furthermore, to limit wasteful and unnecessary energy

consumption, the construction contractors are anticipated to minimize nonessential idling of construction equipment during construction, in accordance with section 2449 of CCR, Title 13, Article 4.8, Chapter 9, which limits nonessential idling of diesel-powered off-road equipment to 5 minutes or less.

The Proposed Project would not result in wasteful, inefficient, or unnecessary use of energy during construction. It is anticipated that the construction equipment would be well maintained and meet the appropriate tier ratings per US EPA emissions standards, so that adequate energy-efficiency level is achieved. Construction trips would not result in unnecessary use of energy since the campus is centrally located and is served by numerous regional freeway systems (e.g., State Route [SR]-2 and Interstate [I]-10) that provide the most direct routes from various areas of the region. Electrical energy would be available for use during construction from existing power lines and connections, precluding the use of less-efficient generators. Thus, energy use during construction of the Proposed Project would not be considered inefficient, wasteful, or unnecessary. Impacts would be **less than significant**.

Long-Term Impacts During Operation

Operation of the Proposed Project would create additional demands for electricity and natural gas as compared to existing conditions due to the increase in building square footage. Operational use of energy would also include heating, cooling, and ventilation of buildings; water heating; operation of electrical systems, use of on-site equipment and appliances; and indoor and outdoor lighting.

Electrical Energy

The proposed net increase in electricity consumption from the Proposed Project is shown in Table 5.4-4.

Table 5.4-4 Net Operation-Related Electricity Consumption

Land Use ¹	Electricity (kWh/year)¹	
Elementary School (Full Buildout) ²	628,774	
Parking Lot ¹ (Full Buildout)	21,292	
Total	650,066	
Existing Elementary School	213,216	
Net Operation-Related Electricity Consumption	436,850	

Source: See Appendix G, Energy Data Sheet.

Note: kWh=kilowatt-hour

Electrical service to the campus would continue to be provided by SCE through connections to existing offsite electrical lines and new on-site infrastructure as needed for each phase. The Proposed Project would add approximately 55,300 square feet of building area to the campus and would redevelop the parking area. As

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Electricity consumption modeling conservatively assumes that electricity use from the parking lot (lighting) are new and does not assume and energy reductions from use of higher efficiency lighting or HVAC units.

² As seen in Appendix D of the CalEEMod Users' Guide, the default energy dataset is based on 2019 consumption estimates from the CEC's Commercial Forecast and the Residential Appliance Saturation Survey (RASS). While these surveys were completed in 2019, the energy intensity estimates derived from the dataset do not only represent buildings constructed in compliance with energy efficiency requirements of the 2019 Energy Code but would also include energy use rates by older buildings. Therefore, the default energy consumption estimates provided in CalEEMod are very conservative and overestimate expected energy use.

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shown in the table, the net new electricity demand by these additional uses from the elementary school would total 436,850 kilowatt-hours per year. While the Proposed Project would generate new energy demand at the site, it would be required to comply with the applicable Building Energy Efficiency Standards and CALGreen requirements as well as the District's Sustainability Plan, including measures for energy efficient lighting and higher efficiency HVAC units. In addition, as the Building Energy Efficiency Standards mandate an increase in building energy efficiency every three years, the new buildings to be constructed would be more energy efficient than the existing school buildings energy to be replaced (CEC 2022h). In addition, as noted in Chapter 3, Project Description, the Proposed Project would be solar ready and would include features such as occupancy sensors for classrooms and offices that more efficiently use energy. These features would comply with the goals outlined in Appendix F of the CEQA Guidelines, as the Proposed Project would promote the use of renewable energy and decrease reliance on fossil fuels to meet the electricity demands of the campus. Because the Proposed Project would comply with these regulations and would provide features to decrease electricity use by the campus, it would not result in wasteful, inefficient, or unnecessary electricity demands even though the Proposed Project would consume more energy. Therefore, operation of the Proposed Project would result in a less than significant impact related to electricity.

Natural Gas Energy

The net new natural gas consumption associated with the Proposed Project is shown in Table 5.4-5. As seen in the table, the net new natural gas demand by the new elementary school buildings would total 1,774,792 kilo-British thermal units per year following buildout of the Proposed Project. Development associated with the Proposed Project would be built to meet the Building Energy Efficiency Standards, including measures for higher efficiency HVAC units for building heating. These measures would comply with the goals outlined in Appendix F of the CEQA Guidelines, as the Proposed Project would decrease reliance on fossil fuels to meet the natural gas demands of the campus. It would not result in wasteful, inefficient, or unnecessary natural gas demands. Therefore, operation of the Proposed Project would result in **less than significant** impacts with respect to natural gas usage.

Table 5.4-5 Net Operation-Related Natural Gas Consumption

Land Use	Natural Gas (kBTU/year)¹		
Elementary School (Full Buildout)	2,109,192		
Existing Elementary School (2019)	334,400		
Net Operation-Related Electricity Consumption	1,774,792		

Source: See Appendix Energy. Note: kBTU=kilo-British thermal units

As seen in Appendix D of the CalEEMod Users' Guide, the default energy dataset is based on 2019 consumption estimates from the CEC's Commercial Forecast and the Residential Appliance Saturation Survey (RASS). While these surveys were completed in 2019, the energy intensity estimates derived from the dataset do not only represent buildings constructed in compliance with energy efficiency requirements of the 2019 Energy Code, but would also include energy use rates by older buildings. Therefore, the default energy consumption estimates provided in CalEEMod are very conservative and overestimate expected energy use.

Transportation Energy

The Proposed Project would result in the consumption of transportation energy during operation from the use of motor vehicles. The efficiency of the motor vehicles in use (average miles per gallon) is unknown and highly variable. Thus, estimates of transportation energy use are based on the overall vehicle miles traveled (VMT) and related transportation energy use. The Proposed Project's related VMT would primarily come from students and staff. However, because student capacity and staffing would not increase or change after full buildout of the three construction phases, implementation of the Proposed Project would not result in additional trips or an increase in VMT and would not result in additional reliance on fossil fuel consumption. In addition, the Proposed Project would include electric vehicle charging infrastructure, which, if implemented, would reduce reliance on fossil fuels. Therefore, there would be **no impact** with respect to operation-related fuel usage.

Impact 5.4-2: The Proposed Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. [Threshold E-2])

The following evaluates consistency of the Proposed Project with California's RPS program and the Santa Monica – Malibu Unified School District Districtwide Plan for Sustainability.

California Renewables Portfolio Standard Program

The state's electricity grid is transitioning to renewable energy under California's RPS Program. Renewable sources of electricity include wind, small hydropower, solar, geothermal, biomass, and biogas. The RPS goals have been updated since adoption of SB 1078 in 2002. In general, California has RPS requirements of 33 percent renewable energy by 2020 (SB X1-2), 44 percent by 2024, 50 percent by 2026, 52 percent by 2027, 60 percent by 2030, and 100 percent by 2045. The RPS requirements established under SB 100 are also applicable to publicly owned utilities. The statewide RPS requirements do not directly apply to individual development projects, but to utilities and energy providers such as SCE, whose compliance with RPS requirements would contribute to the state objective of transitioning to renewable energy. The land uses accommodated by the Proposed Project would not change (school use) and would comply with the current and future iterations of the Building Energy Efficiency Standards and CALGreen. For instance, the Proposed Project would be solar ready and would establish lighting and equipment efficiency standards for all new equipment that meet or exceed Title 24 standards. Therefore, implementation of the Proposed Project would not conflict with or obstruct implementation of California's RPS Program and impacts would be less than significant.

SCAG's Regional Transportation Plan / Sustainable Communities Strategy

SCAG adopted the 2020-2045 RTP/SCS (Connect SoCal) in September 2020. Connect SoCal finds that land use strategies that focus on new housing and job growth in areas rich with destinations and mobility options would be consistent with a land use development pattern that supports and complements the proposed transportation network. The overarching strategy in Connect SoCal is to plan for the southern California region to grow in more compact communities in transit priority areas and priority growth areas; provide neighborhoods with efficient and plentiful public transit; establish abundant and safe opportunities to walk,

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bike, and pursue other forms of active transportation; and preserve more of the region's remaining natural lands and farmlands (SCAG 2020). Connect SoCal's transportation projects help more efficiently distribute population, housing, and employment growth, and forecast development is generally consistent with regional-level general plan data to promote active transportation and reduce energy consumption. As shown in Section 5.6, *Greenhouse Gas*, the Proposed Project would provide redeveloped and modernized facilities for the existing and future students of McKinley ES but not result in an increase in student capacity. The Proposed Project would not generate an increase in VMT and would not generate additional transportation energy demand or additional fossil fuel consumption from transportation. Therefore, implementation of the Proposed Project would not interfere with implementation of the Connect SoCal Plan and impacts would be less than significant.

Santa Monica – Malibu Unified School District Districtwide Plan for Sustainability

Adopted by the District in 2019, the Sustainability Plan is intended to provide a roadmap to formalize and unite the District's existing sustainability initiatives in addition to incorporating and integrating sustainability practices into student learning and District operations.

While most of the measures under each focus area within the Sustainability Plan apply more broadly to District actions rather than individual projects, the Proposed Project is consistent with the broad strategies outlined in the Sustainability Plan, particularly for the energy efficiency and renewable focus area. For instance, implementation of the Proposed Project would be required to comply with the latest Building Energy Efficiency Standards and CALGreen requirements and would be solar ready. In addition, the Proposed Project would establish lighting and equipment efficiency standards for all new equipment that meet or exceed Title 24 standards. Therefore, the Proposed Project would not interfere with implementation of the District's Sustainability Plan, and impacts would be **less than significant**.

5.4.4 Mitigation Measures

No mitigation measures are required.

5.4.5 Level of Significance After Mitigation

All impacts are less than significant.

5.4.6 Cumulative Impacts

The areas considered for cumulative impacts to electricity and natural gas supplies are the service areas of SCE and SoCalGas, respectively, described above in Section 5.4.1. Other development projects in the service area would generate increased electricity and natural gas demands. However, as with development associated with the Proposed Project, all projects within the SCE and SoCalGas service areas would be required to comply with the Building Energy Efficiency Standards and CALGreen, which would contribute to minimizing wasteful energy consumption. Therefore, cumulative impacts would be **less than significant**, and the Proposed Project's impacts would not be cumulatively considerable.

5.4.7 References

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5. Environmental Analysis

5.5 GEOLOGY AND SOILS

This section of the Draft Environmental Impact Report (DEIR) evaluates the McKinley Elementary School Campus Master Plan Project's (Proposed Project) potential impacts to paleontological resources in the City of Santa Monica. The analysis in this section is based in part on the following technical report:

- Cultural and Paleontological Resources Assessment for the McKinley Elementary Campus Master Plan Project, Cogstone, September 2022
- Geotechnical Exploration Report, New Classroom Building, McKinley Elementary School, 2401 Santa Monica Boulevard, Santa Monica, Los Angeles County, California, Leighton Consulting, Inc., November 2021

A complete copy of these technical reports are provided in Appendix F and Appendix H of this DEIR.

The SMMUSD determined that an EIR would be required for this Proposed Project and issued an Initial Study/Notice of Preparation (IS/NOP) on January13, 2023. A California Environmental Quality Act (CEQA) scoping meeting was conducted on January 31, 2023. No comment letters were received in response to the NOP related to geology and soils including paleontological resources. The IS/NOP and all scoping comment letters are included as Appendices B and C of this document.

5.5.1 Environmental Setting

State and local laws, regulations, plans, or guidelines related to paleontological resources that are applicable to the Proposed Project are summarized in this section.

5.5.1.1 REGULATORY BACKGROUND

State

California Public Resources Code

Requirements for paleontological resource management are included in California PRC Division 5, Chapter 1.7, Section 5097.5, which states:

A person shall not knowingly and willfully excavate upon, or remove, destroy, injure, or deface, any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, rock art, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over the lands.

These statutes prohibit the removal, without permission, of any paleontological site or feature from land under the jurisdiction of the state or any city, county, district, authority, or public corporation, or any agency thereof. Consequently, local agencies are required to comply with PRC Section 5097.5 for their own activities, including construction and maintenance, as well as for permit actions (e.g., encroachment permits) undertaken by others. PRC Section 5097.5 also establishes the removal of paleontological resources as a misdemeanor and requires

reasonable mitigation of adverse impacts to paleontological resources from developments on public (i.e., state, county, city, and district) land.

California Code of Regulations

Title 14, Section 4307: No person shall destroy, disturb, mutilate, or remove earth, sand, gravel, oil, minerals, rocks, paleontological features, or features of caves.

Regional

Society for Vertebrate Paleontology Professional Standards

The Society for Vertebrate Paleontology (SVP) has established standard guidelines for acceptable professional practices in the conduct of paleontological resource assessments and surveys, monitoring and mitigation, data and fossil recovery, sampling procedures, and specimen preparation, identification, analysis, and curation. Most practicing professional paleontologists in the nation adhere closely to the SVP's assessment, mitigation, and monitoring requirements as specifically provided in its standard guidelines. Most California State regulatory agencies accept the SVP standard guidelines as a measure of professional practice.

As defined by the SVP (2010: 11), significant nonrenewable paleontological resources are:

fossils and fossiliferous deposits, here defined as consisting of identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data that provide taphonomic, taxonomic, phylogenetic, paleoecologic, stratigraphic, and/or biochronologic information. Paleontological resources are considered to be older than recorded human history and/or older than middle Holocene (i.e., older than about 5,000 radiocarbon years).

Numerous paleontological studies have developed criteria for the assessment of significance for fossil discoveries. In general, these studies assess fossils as significant if one or more of the following criteria apply:

- 1) The fossils provide information on the evolutionary relationships and developmental trends among organisms, living or extinct;
- 2) The fossils provide data useful in determining the age(s) of the rock unit or sedimentary stratum, including data important in determining the depositional history of the region and the timing of geologic events therein;
- The fossils provide data regarding the development of biological communities or interaction between palaeobotanical and paleozoological biotas;
- 4) The fossils demonstrate unusual or spectacular circumstances in the history of life; or
- 5) The fossils are in short supply and/or are in danger of being depleted or destroyed by the elements, vandalism, or commercial exploitation, and are not found in other geographic locations.

A geologic unit known to contain significant fossils is considered "sensitive" to adverse impacts if there is a high probability that earth-moving or ground-disturbing activities in that rock unit will either directly or

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indirectly disturb, or destroy, fossil remains. The limits of the entire rock formation, both areal and stratigraphic, therefore define the scope of the paleontological potential in each case (SVP, 1995:23).

Fossils are contained within surficial sediments, or bedrock, and are, therefore, not observable, or detectable, unless exposed by erosion or human activity. In summary, paleontologists cannot know either the quality or quantity of fossils prior to natural erosion, or human-caused exposure. As a result, even in the absence of surface fossils, it is necessary to assess the sensitivity of rock units based on their known potential to produce significant fossils elsewhere within the same geologic unit (both within and outside of the study area), a similar geologic unit, or based on whether the unit in question was deposited in a type of environment that is known to be favorable for fossil preservation. Monitoring by experienced paleontologists greatly increases the probability that fossils will be discovered during ground-disturbing activities and that, if these remains are significant, successful mitigation and salvage efforts may be undertaken in order to prevent adverse impacts to these resources.

Paleontological Sensitivity

Paleontological sensitivity is defined as the potential for a geologic unit to produce scientifically significant fossils. This is determined by rock type, past history of the geologic unit in producing significant fossils, and fossil localities recorded from that unit. Paleontological sensitivity is derived from the known fossil data collected from the entire geologic unit, not just from a specific survey. In its "Standard Guidelines for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources," the SVP (2010: 1-2) defines four categories of paleontological sensitivity (potential) for rock units: high, low, undetermined, and no potential:

- High Potential. Rock units from which vertebrate or significant invertebrate, plant, or trace fossils have been recovered are considered to have a high potential for containing additional significant paleontological resources. Rocks units classified as having high potential for producing paleontological resources include, but are not limited to, sedimentary formations and some volcaniclastic formations (e. g., ashes or tephras), and some low-grade metamorphic rocks which contain significant paleontological resources anywhere within their geographical extent, and sedimentary rock units temporally or lithologically suitable for the preservation of fossils (e. g., middle Holocene and older, fine-grained fluvial sandstones, argillaceous and carbonate-rich paleosols, cross-bedded point bar sandstones, fine-grained marine sandstones, etc.). Rock units which contain potentially datable organic remains older than late Holocene, including deposits associated with animal nests or middens, and rock units which may contain new vertebrate deposits, traces, or trackways are also classified as having high potential.
- Low Potential. Reports in the paleontological literature or field surveys by a qualified professional paleontologist may allow determination that some rock units have low potential for yielding significant fossils. Such rock units will be poorly represented by fossil specimens in institutional collections, or based on general scientific consensus only preserve fossils in rare circumstances and the presence of fossils is the exception not the rule, e.g. basalt flows or Recent colluvium. Rock units with low potential typically will not require impact mitigation measures to protect fossils.
- Undetermined Potential. Rock units for which little information is available concerning their
 paleontological content, geologic age, and depositional environment are considered to have undetermined
 potential. Further study is necessary to determine if these rock units have high or low potential to contain

significant paleontological resources. A field survey by a qualified professional paleontologist to specifically determine the paleontological resource potential of these rock units is required before a paleontological resource impact mitigation program can be developed. In cases where no subsurface data are available, paleontological potential can sometimes be determined by strategically located excavations into subsurface stratigraphy.

No Potential. Some rock units have no potential to contain significant paleontological resources, for instance high-grade metamorphic rocks (such as gneisses and schists) and plutonic igneous rocks (such as granites and diorites). Rock units with no potential require no protection nor impact mitigation measures relative to paleontological resources.

For geologic units with high potential, full-time monitoring is generally recommended during any Proposed Project-related ground disturbance (SVP, 2010). For geologic units with low potential, full-time monitoring will not generally be required. For geologic units with undetermined potential, field surveys by a qualified vertebrate paleontologist should be conducted to specifically determine the palaeontologic potential of the rock units present within the Proposed Project's area.

Local

City of Santa Monica General Plan

The Land Use and Circulation Element of the Santa Monica General Plan includes the following policies, and actions that relates to paleontological resources:

Goal HP1: Preserve and protect historic resources in Santa Monica through land use decision-making process.

 Policy HP1.10. Review proposed development for potential impacts on unique archeological resources, paleontological resources, and incorporate appropriate mitigation measures to protect or document resources.

5.5.1.2 REGIONAL GEOLOGIC SETTING

The Proposed Project's Site is within the Los Angeles Basin, a sedimentary basin which includes the coastal plains of Los Angeles and Orange counties and out to Catalina Island, California. This region is bounded by the Santa Ana Mountains to the east, the Santa Monica Mountains to the north, and the San Joaquin Hills to the south. The marine Los Angeles Basin began to develop in the early Miocene, about 23 million years ago. Through time the basin transitioned to terrestrial deposition by the middle Pleistocene, about 1 million years ago.

The area is part of the coastal section of the northernmost Peninsular Range Geomorphic Province and is characterized by elongated northwest-trending mountain ridges separated by sediment-floored valleys. Subparallel faults branching off from the San Andreas Fault to the east create the local mountains and hills. The Peninsular Ranges Geomorphic Province is located in the southwestern corner of California and is bounded by the Transverse Ranges Geomorphic Province to the north and the Colorado Desert Geomorphic Province to the east (Cogstone 2022).

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5.5.1.3 LOCAL GEOLOGY AND PALEONTOLOGY

According to geologic mapping, the Proposed Project's area is mapped at the surface as middle to late Pleistocene (774,000 to 11, 700 years ago) old alluvial fan deposits and Holocene (less than 11,700 years ago) alluvial fan deposits. Various amounts of modern artificial fill are present on-site from the previous development of the school and were noted during the pedestrian survey (Cogstone 2022). The geologic units are summarized below, based on information contained in Appendix F in oldest to youngest geochronological order.

Old alluvial fan deposits, middle to late Pleistocene

Alluvial fan deposits are typically deposited along the outer slopes of valleys from local mountains via the mouths of canyons. These deposits have been uplifted or otherwise removed from the area of recent sedimentation. Sediments are characterized as slightly to moderately indurated, silts to boulder conglomerates, with slightly to moderately dissected fan surfaces, and moderately to well-developed pedogenic soils (Cogstone 2022).

Alluvial fan deposits, Holocene

Like the old alluvial fan deposits, these Holocene alluvial fan deposits are deposited along the outer slopes of valleys from local mountains. The Holocene alluvial fan deposits consist of unconsolidated silt, sand, and gravel, with some boulders and cobbles (Campbell et al. 2014).

Artificial fill, modern

In California, most artificial fill is less than 100 years old and is associated with construction activities. The Proposed Project's Area has been previously developed and contains various amounts of artificial fill placed during prior development (Leighton Consulting, Inc. 2021).

5.5.1.4 PALEONTOLOGICAL RESOURCES

Paleontological resources are fossils, or recognizable remains or evidence of past life on Earth, including bones, shells, leaves, tracks, burrows, and impressions. Paleontological resources are generally found within sedimentary rock formations. The City of Santa Monica rests on surface deposits of younger and older Quaternary alluvium, derived primarily from the Santa Monica Mountains to the north. The younger (i.e., Holocene, past 11,700 years) alluvial deposits do not contain significant vertebrate fossils, but these deposits are underlain by older (i.e., Pleistocene, 11,700 to 1.6 million years) Quaternary deposits that contain significant vertebrate fossils at varying depths, beginning as shallow as 6 feet beneath the ground surface. The campus is mapped as middle to late Pleistocene older alluvium and late Pleistocene to Holocene young alluvium. A records search and surveys were conducted for the Proposed Project, as described below.

Methods Used to Identify Known Paleontological Resources

To evaluate the Proposed Project's potential effects on significant cultural resources, a paleontological resources assessment of the Proposed Project's Site was completed, which included archival research and a pedestrian

survey. This assessment included a desktop review of geologic mapping and scientific literature, and a museum records search by the Los Angeles County Natural History Museum (NHMLA). The methodology and results of these studies are summarized below.

Paleontological Record Search

A record search of the campus was obtained from the NHMLA. Additional records from the University of California Museum of Paleontology database, the PaleoBiology Database, and print sources were also reviewed for fossil records near to the Proposed Project (Cogstone 2022). The NHMLA did not report any fossil localities at the Proposed Project's Site; however, as shown in Table 5.5-1, *Fossil Localities*, there are several fossil localities located near the campus. The records search revealed that all of the fossils previously recovered within a 10-mile radius were a minimum of six feet deep in deposits mapped as Pleistocene at the surface.

Table 5.5-1 Fossil Localities

1able 5.5-1	FOSSII L	ocalities					
Common Name	Taxon1	Location	Approximate Distance from the Proposed Project's Site (Miles)	Formation Mapped at the Surface	Age	Locality	Depth
American Lion	Felis Atrox	South of Olympic Blvd. on Michigan Ave. east of Cloverfield Blvd., Santa Monica	0.5	Younger alluvial fan (Qya)	Pleistocene	LACM 5462	6 feet
Ground sloth	Paramylon	Near Rose Ave. and Penmar Ave., Santa	2.5	Younger alluvial fan	Pleistocene	LACM 7879	>11 feet bgs
Horse	Equus	Monica	-	(Qya)	1 10101000110		
Bison	Bison sp.		10		Pleistocene	LACM 4942	16 feet
Mammoth	Mammuthus sp.	Southeast corner of Airport Blvd. and Manchester Ave.	-	Older alluvium (Qoe)			
Hare	Lepus		-				
Elephant	Proboscidea	Los Angeles International Airport, Tom Bradley International Terminal	10	Older alluvium (Qoe)	Pleistocene	LACM 3264	25 feet
Mastodon	Mammut sp.	Manchester Ave. and Airport Blvd., Westchester	10	Older alluvial fan (Qoa)	Pleistocene	LACM 1180	13.5 feet
Horse	Equus sp.		8	Younger			
Camel	Camelops sp.	Culver City East		alluvial fan (Qya)	Pleistocene	unlisted	unknown
Camel	(Camelops sp.)	Outfall Sewer at Exposition Blvd., Culver City	6	Younger alluvial fan (Qya)	Pleistocene	LAMC 3366	Shallow but unknown
Mastodon	Mammut sp.	Outfall Sewer at Rodeo, Culver City	7	Younger alluvial fan (Qya)	Pleistocene	LAMC 3367	Shallow but unknown

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Table 5.5-1 Fossil Localities

Common Name	Taxon1	Location	Approximate Distance from the Proposed Project's Site	Formation Mapped at the Surface		l a salita	Double
Horse	Equus sp.	Outfall Sewer Section 15, Sentous Ave. east of Ballona Creek, Culver City	(Miles)	Younger alluvial fan (Qya)	Age Pleistocene	LAMC 3368	Shallow but unknown
Horse	Equidae	Outfall Sewer Section 10, Culver City	10	Younger alluvial fan (Qya)	Pleistocene	LAMC 3369	Shallow but unknown
Saber- toothed cat	Smilodon sp.	Outfall Sewer saber- tooth, Culver City	10	Younger alluvial fan (Qya))	Pleistocene	LAMC 3370	Shallow but unknown
Antique bison	Bison antiquus	Outfall Sewer Trench 19, Culver City	10	Younger alluvial fan (Qya))	Late Pleistocene	LACM 3371	Shallow but unknown
Horse	Equus sp.		10		Late Pleistocene	LACM 3372	
Camel	Camelops sp.		-				Shallow but unknown
Deer	Odocoileus sp.	Outfall Sewer, Culver	-	Younger alluvial fan (Qya)			
Antique bison	Bison antiquus	City	-				
Bottae's pocket gopher	Thomomys bottae		-				
Mammoth	Mammuthus sp.	Near Jacob St. and Sentney Ave., west of Ballona Creek Culver City	8	Younger alluvial fan (Qya)	Pleistocene	LACM 4250	Unknown
Horse	Equus sp.	Near Rose Ave. and Penmar Ave., Santa Monica	3	Younger alluvial fan (Qya)	Pleistocene	LACM 7879	> 11 feet

Source: Cogstone 2022

Surveys

A survey of the campus was conducted by a trained paleontologist on May 4, 2022. The pedestrian survey consisted of 10-meter wide transects because the Proposed Project's Site is developed. Ground visibility within the Proposed Project's Site was very poor (less than 2 percent) due to hardscaping and landscaping. All exposed areas with alluvial fans had been hardscaped and landscaped. Digital photographs were taken of the campus, including ground surface visibility and items of interest (see Appendix F) (Cogstone 2022).

group of one or more populations of an organism

Paleontological Sensitivity

The Potential Fossil Yield Classification (PFYC) system, developed by professional resource managers within the Bureau of Land Management (BLM), has a multi-level scale based on demonstrated yield of fossils. The PFYC system provides additional guidance regarding assessment and management for different fossil yield rankings. The probability for finding significant fossils in a project area can be broadly predicted from previous records of fossils recovered from the geologic units present in and/or adjacent to a study area. The geological setting and the number of known fossil localities help determine the paleontological sensitivity according to PFYC criteria. See Appendix F of this DEIR for the Paleontological Sensitivity Ranking Criteria matrix.

Using the PFYC system, geologic units are classified according to the relative abundance of vertebrate fossils or scientifically significant invertebrate or plant fossils and their sensitivity to adverse impacts within the known extent of the geological unit. Although significant localities may occasionally occur in a geologic unit, a few widely scattered important fossils or localities do not necessarily indicate a higher PFYC value; instead, the relative abundance of localities is intended to be the major determinant for the value assignment.

As described in Table 5.5-2, *Paleontological Sensitivity Survey*, the older alluvium less than five feet below the modern surface are assigned a low potential for fossils (PFYC 2) due to the lack of fossils in these deposits; and older alluvium sediments more than five feet below the modern surface are assigned a moderate potential (PFYC 3). Young alluvium deposits less than 20 feet below the modern surface are assigned a low potential for fossils (PFYC 2) due to the lack of fossils in these deposits; and young alluvium deposits more than 20 feet below the modern surface are assigned a moderate potential for fossils (PFYC 3) due to similar deposits producing fossils at that depth near to the study area. Artificial fill has very low potential for fossils (PFYC 1).

Table 5.5-2 Paleontological Sensitivity Survey

	PFYC Rankings					
Rock Unit	5. Very High	4. High	3. Moderate	2. Low	1. Very Low	
Older alluvium, middle to late Pleistocene			More than five feet deep	Less than five feet deep		
Young alluvium, late Pleistocene to Holocene			More than 20 feet deep	Less than 20 feet deep		
Artificial fill, modern					Х	
Source: Coastone 2022	•		•		•	

5.5.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would:

- G-1 Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other

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substantial evidence of a known fault. (Refer to Division of Mines and Geology Special Publication 42.)

- Strong seismic ground shaking.
- iii) Seismic-related ground failure, including liquefaction.
- iv) Landslides.
- G-2 Result in substantial soil erosion or the loss of topsoil.
- G-3 Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse.
- G-4 Be located on expansive soil, as defined in Table 18-1B of the Uniform building Code (1994), creating substantial direct or indirect risks to life or property.
- G-5 Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water.
- G-6 Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

The IS/NOP, included as Appendix B of this DEIR, substantiates that impacts associated with the following thresholds would be less than significant; therefore, these impacts will not be further addressed in this DEIR:

- Threshold G-1
- Threshold G-2
- Threshold G-3
- Threshold G-4
- Threshold G-5

These impacts are addressed in Chapter 6, Other CEOA Considerations, and in Appendix B of this DEIR.

5.5.3 Environmental Impacts

5.5.3.1 IMPACT ANALYSIS

The following impact analysis addresses thresholds of significance for which the IS/NOP disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.5-1: Buildout of the Proposed Project would not directly or indirectly destroy a unique paleontological resource. [Threshold G-6])

No known paleontological resources were identified within the Proposed Project's Site based on the paleontological records search and pedestrian reconnaissance survey; however, as shown in Table 5.5-1, there

are several fossil localities located within five miles of the campus. The records search revealed that all the fossils previously recovered within a 10-mile radius were a minimum of six feet deep in Pleistocene deposits.

As shown in Table 5.5.-2, the campus has low to moderate paleontological sensitivity. Although no paleontological resources were previously found on the campus, construction of the Proposed Project would require excavation and grading; thus, increasing the potential to uncover paleontological resources. Therefore, ground-disturbing activities could impact sediments with the potential to yield significant paleontological resources either at the surface or at depth. If fossils are encountered during Project-related earthwork, then they would be at risk of damage or destruction from construction activities. Ground-disturbing activities for the Proposed Project could therefore result in a **significant impact** to unique paleontological resources. **Mitigation Measure GEO-1**, which would include paleontological monitoring during excavations into native sediments of older alluvium below a depth of five feet and native sediments of young alluvium below a depth of 20 feet, in order to reduce potential impacts to any unknown paleontological resources located within the campus.

5.5.4 Mitigation Measures

Impact 5.5-1

GEO-1

Prior to the commencement of any on-site excavation or grading activities, the District shall retail a qualified paleontologist meeting the Society of Vertebrate Paleontology (SVP) Standards (SVP 2010) (Qualified Paleontologist). The Qualified Paleontologist shall provide technical and compliance oversight of all work as it relates to paleontological resources, shall be responsible for ensuring the employee training provisions are implemented during implementation of the Proposed Project, and shall report to the Proposed Project's Site in the event potential paleontological resources are encountered.

A Paleontological Resources Management Plan (PRMP) shall be prepared by the Qualified Paleontologist that incorporates all available geologic data for the Project in order to determine the necessary level of effort for monitoring based on the planned rate of excavation and grading activities, the materials being excavated, and the depth of excavation. The PRMP establishes the ground rules for the entire paleontological resource mitigation program. The Qualified Paleontologist will implement the PRMP as the project paleontologist, program supervisor, and principal investigator. The PRMP shall incorporate the results of the paleontological resources assessments, geotechnical investigation, and the final engineering/grading plans for the project including pertinent geological and paleontological literature, geologic maps, and known fossil locality information. The PRMP shall include processes and procedures for paleontological monitoring, fossil salvaging (if needed), reporting, and curation (if needed). The PRMP shall also require the Qualified Paleontologist to prepare a report of the findings of the monitoring efforts after construction is completed. The PRMP shall also require the Qualified Paleontologist to obtain a curatorial arrangement with a qualified repository (e.g., Los Angeles County Natural History Museum) prior to construction if significant paleontological resources are discovered and require curation.

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A paleontological monitor, defined as an individual who has experience in the collection and salvage of fossil materials, shall work under the direction of the Qualified Paleontologist and shall be on-site during excavations into native sediments of older alluvium below a depth of five feet and native sediments of young alluvium below a depth of 20 feet. Drilling or pile driving activities, regardless of depth, have a low potential to produce fossils meeting significance criteria because any fossils brought up by the auger during drilling will not have information about formation, depth or context. The only instance in which such fossils will meet significance criteria is if the fossil is a species new to the region.

In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Fossil remains collected during the monitoring and salvage portion of the program shall be cleaned, repaired, sorted, and catalogued. Once documentation and collection of the find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find. Prepared fossils, along with copies of all pertinent field notes, photos, and maps, shall be deposited (as a donation) in a scientific institution with permanent paleontological collections, such as the Los Angeles County Natural History Museum.

A final Paleontological Monitoring and Data Recovery Report shall be completed that outlines the results of the monitoring program. This report shall include discussions of the methods used, stratigraphic section(s) exposed, fossils collected, and significance of recovered fossils.

5.5.5 Level of Significance After Mitigation

Potential impacts to unknown paleontological resources that could qualify as unique paleontological resources, would be mitigated to less than significant through the implementation of **Mitigation Measure GEO-1**. Impact to paleontological resources would be **less than significant**.

5.5.6 Cumulative Impacts

Paleontological impacts related to the Proposed Project would be specific to the campus and would not combine to result in cumulative impacts. Compliance with state and local regulations would be required of all developments in the City and within the District. Similarly, all development projects would also require site-specific paleontological analysis that could lead to mitigation requiring monitoring and recovery, identification, and curation of any resources discovered. The Proposed Project has included a mitigation measure that would reduce the potential for project-related activities to contribute to cumulative impacts to paleontological resources. The Proposed Project's contribution to cumulative paleontological resource impacts would be less than cumulatively considerable; therefore, project impacts would be less than significant.

5.5.7 References

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5. Environmental Analysis

5.6 GREENHOUSE GAS EMISSIONS

This section of the Draft Environmental Impact Report (DEIR) evaluates the potential for implementation of the McKinley Elementary School Campus Master Plan (Proposed Project) to cumulatively contribute to greenhouse gas (GHG) emissions impacts. Because no single project is large enough to result in a measurable increase in global concentrations of GHG, climate change impacts of a project are considered on a cumulative basis. This evaluation is based on the methodology recommended by the South Coast Air Quality Management District (South Coast AQMD). GHG emissions modeling was conducted using the California Emissions Estimator Model (CalEEMod), version 2022.1.0, and model outputs are in Appendix D of this DEIR. Cumulative impacts related to GHG emissions are based on the regional boundaries of the South Coast Air Basin (SoCAB).

No comments were received in response to the Initial Study/Notice of Preparation (IS/NOP) in regard to greenhouse gas emissions. The IS/NOP and all scoping comment letters are included as Appendices B and C of this DEIR.

5.6.1 Environmental Setting

5.6.1.1 TERMINOLOGY

The following are definitions for terms used throughout this section.

- **Greenhouse gases (GHG).** Gases in the atmosphere that absorb infrared light, thereby retaining heat in the atmosphere and contributing to a greenhouse effect.
- Global warming potential (GWP). Metric used to describe how much heat a molecule of a greenhouse gas absorbs relative to a molecule of carbon dioxide (CO₂) over a given period of time (20, 100, and 500 years). CO₂ has a GWP of 1.
- Carbon-dioxide equivalent (CO₂e). The standard unit to measure the amount of greenhouse gases in terms of the amount of CO₂ that would cause the same amount of warming. CO₂e is based on the GWP ratios between the various GHGs relative to CO₂.
- **MTCO**₂**e.** Metric ton of CO₂e.
- **MMTCO**₂**e.** Million metric tons of CO₂e.

Greenhouse Gases and Climate Change

Scientists have concluded that human activities are contributing to global climate change by adding large amounts of heat-trapping gases, known as GHGs, to the atmosphere. The primary source of these GHGs is fossil fuel use. The Intergovernmental Panel on Climate Change (IPCC) has identified four major GHGs—water vapor, carbon dioxide (CO₂), methane (CH₄), and ozone (O₃)—that are the likely cause of an increase in global average temperatures observed in the 20th and 21st centuries. Other GHGs identified by the IPCC that contribute to global warming to a lesser extent are nitrous oxide (N₂O), sulfur hexafluoride (SF₆),

hydrofluorocarbons, perfluorocarbons, and chlorofluorocarbons (IPCC 2001).^{1,2} The major GHGs applicable to the Proposed Project are briefly described.

- Carbon dioxide (CO₂) enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and respiration, and also as a result of other chemical reactions (e.g., manufacture of cement). Carbon dioxide is removed from the atmosphere (sequestered) when it is absorbed by plants as part of the biological carbon cycle.
- Methane (CH₄) is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and other agricultural practices and from the decay of organic waste in landfills and water treatment facilities.
- Nitrous oxide (N₂O) is emitted during agricultural and industrial activities as well as during the combustion of fossil fuels and solid waste.

GHGs are dependent on the lifetime, or persistence, of the gas molecule in the atmosphere. Some GHGs have stronger greenhouse effects than others. These are referred to as high GWP gases. The GWP of GHG emissions are shown in Table 5.6-1, GHG Emissions and Their Relative Global Warming Potential Compared to CO₂. The GWP is used to convert GHGs to CO₂-equivalence (CO₂e) to show the relative potential that different GHGs have to retain infrared radiation in the atmosphere and contribute to the greenhouse effect. For example, under IPCC's Fourth Assessment Report (AR4) GWP values for CH₄, a project that generates 10 MT of CH₄ would be equivalent to 250 MT of CO₂.³

Table 5.6-1 GHG Emissions and Their Relative Global Warming Potential Compared to CO₂

GHGs	Second Assessment Report Global Warming Potential Relative to CO ₂ 1	Fourth Assessment Report Global Warming Potential Relative to CO ₂ ¹	Fifth Assessment Report Global Warming Potential Relative to CO ₂ ¹
Carbon Dioxide (CO ₂)	1	1	1
Methane (CH ₄) ²	21	25	28
Nitrous Oxide (N ₂ O)	310	298	265

Source: IPCC 1995, 2007, 2013.

Notes: The IPCC published updated GWP values in its Fifth Assessment Report (AR5) that reflect new information on atmospheric lifetimes of GHGs and an improved calculation of the radiative forcing of CO₂. However, GWP values identified in AR4 are used by South Coast AQMD to maintain consistency in statewide GHG emissions modeling. In addition, the 2017 Scoping Plan Update was based on the GWP values in AR4.

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Based on 100-year time horizon of the GWP of the air pollutant compared to CO2.

² The methane GWP includes direct effects and indirect effects due to the production of tropospheric ozone and stratospheric water vapor. The indirect effect due to the production of CO₂ is not included.

¹ Water vapor (H₂O) is the strongest GHG and the most variable in its phases (vapor, cloud droplets, ice crystals). However, water vapor is not considered a pollutant because it is considered part of the feedback loop rather than a primary cause of change.

Black carbon contributes to climate change both directly, by absorbing sunlight, and indirectly, by depositing on snow (making it melt faster) and by interacting with clouds and affecting cloud formation. Black carbon is the most strongly light-absorbing component of particulate matter (PM) emitted from burning fuels such as coal, diesel, and biomass. Reducing black carbon emissions globally can have immediate economic, climate, and public health benefits. California has been an international leader in reducing emissions of black carbon, with close to 95 percent control expected by 2020 due to existing programs that target reducing PM from diesel engines and burning activities (CARB 2017a). However, state and national GHG inventories do not include black carbon due to ongoing work resolving the precise global warming potential of black carbon. Guidance for CEQA documents does not yet include black carbon.

³ The global warming potential of a GHG is dependent on the lifetime, or persistence, of the gas molecule in the atmosphere.

Human Influence on Climate Change

For approximately 1,000 years before the Industrial Revolution, the amount of GHGs in the atmosphere remained relatively constant. During the 20th century scientists observed a rapid change in the climate and the quantity of climate change pollutants in the Earth's atmosphere that is attributable to human activities. The amount of CO₂ in the atmosphere has increased by more than 35 percent since preindustrial times and has increased at an average rate of 1.4 parts per million per year since 1960, mainly due to the combustion of fossil fuels and deforestation (IPCC 2007). These recent changes in the quantity and concentration of climate change pollutants far exceed the extremes of the ice ages, and the global mean temperature is warming at a rate that cannot be explained by natural causes alone. Human activities are directly altering the chemical composition of the atmosphere through the buildup of climate change pollutants (CAT 2006). In the past, gradual changes in the earth's temperature changed the distribution of species, availability of water, etc. Human activities are accelerating this process so that environmental impacts associated with climate change no longer occur in a geologic time frame but within a human lifetime (IPCC 2007).

Like the variability in the projections of the expected increase in global surface temperatures, the environmental consequences of gradual changes in the Earth's temperature are hard to predict. Projections of climate change depend heavily upon future human activity. Therefore, climate models are based on different emission scenarios that account for historical trends in emissions and on observations of the climate record that assess the human influence of the trend and projections for extreme weather events. Climate-change scenarios are affected by varying degrees of uncertainty. For example, there are varying degrees of certainty on the magnitude of the trends for:

- Warmer and fewer cold days and nights over most land areas.
- Warmer and more frequent hot days and nights over most land areas.
- An increase in the frequency of warm spells and heat waves over most land areas.
- An increase in frequency of heavy precipitation events (or proportion of total rainfall from heavy falls) over most areas.
- Larger areas affected by drought.
- Intense tropical cyclone activity increases.
- Increased incidence of extreme high sea level (excluding tsunamis).

Potential Climate Change Impacts for California

Observed changes over the last several decades across the western United States reveal clear signs of climate change. Statewide, average temperatures increased by about 1.7°F from 1895 to 2011, and warming has been greatest in the Sierra Nevada (CCCC 2012). The years from 2014 through 2016 showed unprecedented temperatures, with 2014 being the warmest (OEHHA 2018). By 2050, California is projected to warm by

approximately 2.7°F above 2000 averages, a threefold increase in the rate of warming over the last century. By 2100, average temperatures could increase by 5.6 to 8.8°F, depending on emissions levels (CNRA 2019).

In California and western North America, observations of the climate have shown: 1) a trend toward warmer winter and spring temperatures; 2) a smaller fraction of precipitation falling as snow; 3) a decrease in the amount of spring snow accumulation in the lower- and middle-elevation mountain zones; 4) advanced shift in the timing of snowmelt of 5 to 30 days earlier in the spring; and 5) a similar shift (5 to 30 days earlier) in the timing of spring flower blooms (CAT 2006). Statewide precipitation has become increasingly variable from year to year, with the driest consecutive three years from 2020 to 2022 (NOAA 2023). According to the California Climate Action Team—a committee of state agency secretaries and the heads of agencies, boards, and departments, led by the California Environmental Protection Agency—even if actions could be taken to immediately curtail climate change emissions, the potency of emissions that have already built up, their long atmospheric lifetimes (see Table 5.6-1), and the inertia of the Earth's climate system could produce as much as 0.6°C (1.1°F) of additional warming. Consequently, some impacts from climate change are now considered unavoidable. Global climate change risks to California are shown in Table 5.6-2, *Summary of GHG Emissions Risks to California*, and include impacts to public health, water resources, agriculture, coastal sea level, forest and biological resources, and energy.

Table 5.6-2 Summary of GHG Emissions Risks to California

Impact Category	Potential Risk
Public Health Impacts	Heat waves will be more frequent, hotter, and longer Fewer extremely cold nights Poor air quality made worse Higher temperatures increase ground-level ozone levels
Water Resources Impacts	Decreasing Sierra Nevada snowpack Challenges in securing adequate water supply Potential reduction in hydropower Loss of winter recreation
Agricultural Impacts	Increasing temperature Increasing threats from pests and pathogens Expanded ranges of agricultural weeds Declining productivity Irregular blooms and harvests
Coastal Sea Level Impacts	Accelerated sea level rise Increasing coastal floods Shrinking beaches Worsened impacts on infrastructure
Forest and Biological Resource Impacts	Increased risk and severity of wildfires Lengthening of the wildfire season Movement of forest areas Conversion of forest to grassland Declining forest productivity Increasing threats from pests and pathogens Shifting vegetation and species distribution Altered timing of migration and mating habits Loss of sensitive or slow-moving species

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Table 5.6-2 Summary of GHG Emissions Risks to California

Impact Category	Potential Risk
Energy Demand Impacts	Potential reduction in hydropower Increased energy demand
Sources: CEC 2006; CEC 2009; CCCC 2012; CNRA 2014.	

Specific climate change impacts that could affect the state of California include:

- Water Resources Impacts. By late this century, all projections show drying, and half of the projections suggest 30-year average precipitation will decline by more than 10 percent below the historical average. This drying trend is caused by an apparent decline in the frequency of rain and snowfall. Even in projections with relatively small or no declines in precipitation, central and southern parts of the state can be expected to be drier from the warming effects alone—the spring snowpack will melt sooner, and the moisture in soils will evaporate during long dry summer months (CCCC 2012).
- Wildfire Risks. Earlier snowmelt, higher temperatures, and longer dry periods over a longer fire season will directly increase wildfire risk. Indirectly, wildfire risk will also be influenced by potential climate-related changes in vegetation and ignition potential from lightning. Human activities will continue to be the biggest factor in ignition risk. The number of large fires statewide is estimated to increase from 58 percent to 128 percent above historical levels by 2085. Under the same emissions scenario, estimated burned area will increase by 57 percent to 169 percent, depending on location (CCCC 2012).
- Health Impacts. Many of the gravest threats to public health in California stem from the increase of extreme conditions—principally, more frequent, more intense, and longer heat waves. Particular concern centers on the increasing tendency for multiple hot days in succession and simultaneous heat waves in several regions throughout the state. Public health could also be affected by climate change impacts on air quality, food production, the amount and quality of water supplies, energy pricing and availability, and the spread of infectious diseases. Higher temperatures also increase ground-level ozone levels. Furthermore, wildfires can increase particulate air pollution in the major air basins of California (CCCC 2012).
- Increase Energy Demand. Increases in average temperature and higher frequency of extreme heat events combined with new residential development across the state will drive up the demand for cooling in the increasingly hot and longer summer season and decrease demand for heating in the cooler season. Warmer, drier summers also increase system losses at natural gas plants (reduced efficiency in the electricity generation process at higher temperatures) and hydropower plants (lower reservoir levels). Transmission of electricity will also be affected by climate change. Transmission lines lose 7 percent to 8 percent of transmitting capacity in high temperatures while needing to transport greater loads. This means that more electricity will need to be produced to make up for both the loss in capacity and the growing demand (CCCC 2012).

5.6.1.2 REGULATORY BACKGROUND

Federal, state, and local laws, regulations, plans, or guidelines related to greenhouse gas emissions that are applicable to the Proposed Project are summarized in this section.

Federal

United States Environmental Protection Agency

The US Environmental Protection Agency (EPA) announced on December 7, 2009, that GHG emissions threaten the public health and welfare of the American people and that GHG emissions from on-road vehicles contribute to that threat. The EPA's final findings respond to the 2007 U.S. Supreme Court decision that GHG emissions fit within the Clean Air Act definition of air pollutants. The findings do not impose any emission reduction requirements, but allow the EPA to finalize the GHG standards proposed in 2009 for new light-duty vehicles as part of the joint rulemaking with the Department of Transportation (USEPA 2009).

To regulate GHGs from passenger vehicles, EPA was required to issue an endangerment finding. The finding identified emissions of six key GHGs—CO₂, CH₄, N₂O, hydrofluorocarbons, perfluorocarbons, and SF₆—that have been the subject of scrutiny and intense analysis for decades by scientists in the United States and around the world. The first three are applicable to the Proposed Project's GHG emissions inventory because they constitute the majority of GHG emissions, and according to guidance by the South Coast Air Quality Management District (South Coast AQMD), are the GHG emissions that should be evaluated as part of a project's GHG emissions inventory.

US Mandatory Reporting Rule for GHGs (2009)

In response to the endangerment finding, the EPA issued the Mandatory Reporting of GHG Rule that requires substantial emitters of GHG emissions (large stationary sources, etc.) to report GHG emissions data. Facilities that emit 25,000 MTCO₂e or more per year are required to submit an annual report.

Update to Corporate Average Fuel Economy Standards (2021 to 2026)

The federal government issued new Corporate Average Fuel Economy (CAFE) standards in 2012 for model years 2017 to 2025, which required a fleet average of 54.5 miles per gallon in 2025. On March 30, 2020, the EPA finalized an updated CAFE and GHG emissions standards for passenger cars and light trucks and established new standards covering model years 2021 through 2026, known as the Safer Affordable Fuel Efficient (SAFE) Vehicles Final Rule for Model Years 2021 to 2026. Under SAFE, the fuel economy standards will increase 1.5 percent per year compared to the 5 percent per year under the CAFE standards established in 2012. Overall, SAFE requires a fleet average of 40.4 MPG for model year 2026 vehicles (85 Federal Register 24174 (April 30, 2020)).

On December 21, 2021, under direction of Executive Order (EO) 13990 issued by President Biden, the National Highway Traffic Safety Administration repealed Safer Affordable Fuel Efficient Vehicles Rule Part One, which had preempted state and local laws related to fuel economy standards. In addition, on March 31, 2022, the National Highway Traffic Safety Administration finalized new fuel standards in response to EO

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13990. Fuel efficiency under the standards proposed will increase 8 percent annually for model years 2024 to 2025 and 10 percent annual for model year 2026. Overall, the new CAFE standards require a fleet average of 49 MPG for passenger vehicles and light trucks for model year 2026, which would be a 10 MPG increase relative to model year 2021 (NHTSA 2022).

State

Current State of California guidance and goals for reductions in GHG emissions are generally embodied in EO S-03-05 and EO B-30-15, EO B-55-18, Assembly Bill 32 (AB 32), Senate Bill 32 (SB 32), and SB 375.

Executive Order S-03-05

EO S-03-05 was signed June 1, 2005, and set the following GHG reduction targets for the state:

- 2000 levels by 2010
- 1990 levels by 2020
- 80 percent below 1990 levels by 2050

Assembly Bill 32, the Global Warming Solutions Act (2006)

AB 32 was passed by the California state legislature on August 31, 2006, to place the state on a course toward reducing its contribution of GHG emissions. AB 32 follows the 2020 tier of emissions reduction targets established in EO S-03-05. CARB prepared the 2008 Scoping Plan to outline a plan to achieve the GHG emissions reduction targets of AB 32.

Executive Order B-30-15

EO B-30-15, signed April 29, 2015, set a goal of reducing GHG emissions within the state to 40 percent of 1990 levels by year 2030. EO B-30-15 also directed CARB to update the Scoping Plan to quantify the 2030 GHG reduction goal for the state and requires state agencies to implement measures to meet the interim 2030 goal as well as the long-term goal for 2050 in EO S-03-05. It also requires the Natural Resources Agency to conduct triennial updates of the California adaption strategy, "Safeguarding California", in order to ensure climate change is accounted for in state planning and investment decisions.

Senate Bill 32 and Assembly Bill 197

In September 2016, Governor Brown signed SB 32 and AB 197 into law, making the EO B-30-15 goal for year 2030 into a statewide mandated legislative target. AB 197 established a joint legislative committee on climate change policies and requires CARB to prioritize direct emissions reductions rather than the market-based cap-and-trade program for large stationary, mobile, and other sources.

Executive Order B-55-18

Executive Order B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." Executive Order B-55-18 directs CARB to work with relevant state agencies to ensure future Scoping Plans identify and

recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of CO2e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

2022 Climate Change Scoping Plan

CARB adopted the 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) on December 15, 2022, which lays out a path to achieve carbon neutrality by 2045 or earlier and to reduce the State's anthropogenic GHG emissions (CARB 2022). The Scoping Plan provides updates to the previously adopted 2017 Scoping Plan and addresses the carbon neutrality goals of EO B-55-18 (discussed below) and the ambitious GHG reduction target as directed by AB 1279. Previous Scoping Plans focused on specific GHG reduction targets for our industrial, energy, and transportation sectors—to meet 1990 levels by 2020, and then the more aggressive 40 percent below that for the 2030 target. The 2022 Scoping Plan updates the target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. Carbon neutrality takes it one step further by expanding actions to capture and store carbon including through natural and working lands and mechanical technologies, while drastically reducing anthropogenic sources of carbon pollution at the same time.

The path forward was informed by the recent Sixth Assessment Report (AR6) of the IPCC and the measures would achieve 85 percent below 1990 levels by 2045 in accordance AB 1279. CARB's 2022 Scoping Plan identifies strategies as shown in Table 5.6-3, *Priority Strategies for Local Government Climate Action Plans*, which would be most impactful at the local level for ensuring substantial process towards the State's carbon neutrality goals.

Table 5.6-3 Priority Strategies for Local Government Climate Action Plans

Priority Area	Priority Strategies		
Transportation Electrification	Convert local government fleets to zero-emission vehicles (ZEV) and provide EV charging at public sites.		
	Create a jurisdiction-specific ZEV ecosystem to support deployment of ZEVs statewide (such as building standards that exceed state building codes, permit streamlining, infrastructure siting, consumer education, preferential parking policies, and ZEV readiness plans).		
VMT Reduction	Reduce or eliminate minimum parking standards.		
	Implement Complete Streets policies and investments, consistent with general plan circulation element requirements.		
	Increase access to public transit by increasing density of development near transit, improving transit service by increasing service frequency, creating bus priority lanes, reducing or eliminating fares, micro transit, etc.		
	Increase public access to clean mobility options by planning for and investing in electric shuttles, bike share, car share, and walking		
	Implement parking pricing or transportation demand management pricing strategies.		
	Amend zoning or development codes to enable mixed-use, walkable, transit-oriented, and compact infill development (such as increasing allowable density of the neighborhood).		
	Preserve natural and working lands by implementing land use policies that guide development toward infill areas and do not convert "greenfield" land to urban uses (e.g., green belts, strategic conservation easements)		

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Table 5.6-3 Priority Strategies for Local Government Climate Action Plans

Priority Area	Priority Strategies		
Building Decarbonization	Adopt all-electric new construction reach codes for residential and commercial uses.		
	Adopt policies and incentive programs to implement energy efficiency retrofits for existing buildings, such as weatherization, lighting upgrades, and replacing energy-intensive appliances and equipmen with more efficient systems (such as Energy Star-rated equipment and equipment controllers).		
	Adopt policies and incentive programs to electrify all appliances and equipment in existing buildings such as appliance rebates, existing building reach codes, or time of sale electrification ordinances.		
	Facilitate deployment of renewable energy production and distribution and energy storage on privately owned land uses (e.g., permit streamlining, information sharing).		
	Deploy renewable energy production and energy storage directly in new public projects and on existing public facilities (e.g., solar photovoltaic systems on rooftops of municipal buildings and on canopies in public parking lots, battery storage systems in municipal buildings).		

Based on Appendix D of the 2022 CARB Climate Change Scoping Plan, for residential and mixed-use development projects, CARB recommends first demonstrating that these land use development projects are aligned with State climate goals based on the attributes of land use development that reduce operational GHG emissions while simultaneously advancing fair housing. Attributes that accommodate growth in a manner consistent with the GHG and equity goals of SB 32 have all the following attributes:

Transportation Electrification

• Provide EV charging infrastructure that, at a minimum, meets the most ambitious voluntary standards in the California Green Building Standards Code at the time of project approval.

VMT Reduction

- Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer).
- Does not result in the loss or conversion of the State's natural and working lands;
- Consists of transit-supportive densities (minimum of 20 residential dwelling units/acre), or is in proximity to existing transit stops (within a half mile), or satisfies more detailed and stringent criteria specified in the region's Sustainable Communities Strategy (SCS);
- Reduces parking requirements by:
 - Eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet); or
 - Providing residential parking supply at a ratio of <1 parking space per dwelling unit; or
 - For multifamily residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit.

- At least 20 percent of the units are affordable to lower-income residents;
- Result in no net loss of existing affordable units.
- Building Decarbonization
 - Use all electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking (CARB 2022).

If the first approach to demonstrating consistency is not applicable (such as in the case of this school modernization project), the second approach to project-level alignment with state climate goals is to achieve net zero GHG emissions. The third approach to demonstrating project-level alignment with state climate goals is to align with GHG thresholds of significance, which many local air quality management (AQMDs) and air pollution control districts (APCDs) have developed or adopted (CARB 2022). The Proposed Project is within the jurisdiction of South Coast AQMD, which has identified a screening-level threshold of 3,000 MTCO2e annually for all land use types.

Senate Bill 375

SB 375, the Sustainable Communities and Climate Protection Act, was adopted in 2008 to connect the GHG emissions reduction targets established in the 2008 Scoping Plan for the transportation sector to local land use decisions that affect travel behavior. Its intent is to reduce GHG emissions from light-duty trucks and automobiles (excludes emissions associated with goods movement) by aligning regional long-range transportation plans, investments, and housing allocations to local land use planning to reduce VMT and vehicle trips. Specifically, SB 375 required CARB to establish GHG emissions reduction targets for each of the 18 metropolitan planning organizations (MPO). The Southern California Association of Governments (SCAG) is the MPO for the Southern California region, which includes Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial counties. Pursuant to the recommendations of the Regional Transportation Advisory Committee, CARB adopted per capita reduction targets for each of the MPOs rather than a total magnitude reduction target.

2017 Update to the SB 375 Targets

CARB is required to update the targets for the MPOs every eight years. CARB adopted revised SB 375 targets for the MPOs in March 2018. The updated targets became effective in October 2018. All SCSs adopted after October 1, 2018, are subject to these new targets. CARB's updated SB 375 targets for the SCAG region were an 8 percent per capita GHG reduction in 2020 from 2005 levels (unchanged from the 2010 target) and a 19 percent per capita GHG reduction in 2035 from 2005 levels (compared to the 2010 target of 13 percent) (CARB 2018).

The targets consider the need to further reduce VMT, as identified in the 2017 Scoping Plan Update (for SB 32), while balancing the need for additional and more flexible revenue sources to incentivize positive planning and action toward sustainable communities. Like the 2010 targets, the updated SB 375 targets are in units of "percent per capita" reductions in GHG emissions from automobiles and light trucks relative to 2005; this excludes reductions anticipated from implementation of state technology and fuels strategies and any

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potential future state strategies, such as statewide road user pricing. The proposed targets call for greater percapita GHG emission reductions from SB 375 than are currently in place, which for 2035 translate into proposed targets that either match or exceed the emission reduction levels in the MPOs' currently adopted SCSs to achieve the SB 375 targets. CARB foresees that the additional GHG emissions reductions in 2035 may be achieved from land use changes, transportation investment, and technology strategies (CARB 2018).

SCAG's 2016-2040 RTP/SCS

SB 375 requires each MPO to prepare a sustainable communities strategy in its regional transportation plan. For the SCAG region, the 2020-2045 RTP/SCS, *Connect SoCal*, was adopted on September 3, 2020, and is an update to the 2016-2040 RTP/SCS (SCAG 2020). In general, the RTP/SCS outlines a development pattern for the region that, when integrated with the transportation network and other transportation measures and policies, would reduce VMT from automobiles and light duty trucks and thereby reduce GHG emissions from these sources.

Connect SoCal focuses on the continued efforts of the previous RTP/SCSs to integrate transportation and land use strategies in development of the SCAG region through the horizon year 2045 (SCAG 2020). Connect SoCal forecasts that the SCAG region will meet its GHG per capita reduction targets of 8 percent by 2020 and 19 percent by 2035. It also forecasts that implementation of the plan will reduce VMT per capita in year 2045 by 4.1 percent compared to baseline conditions for that year. Connect SoCal includes a "Core Vision" that centers on maintaining and better managing the transportation network for moving people and goods, while expanding mobility choices by locating housing, jobs, and transit closer together; and increasing investments in transit and complete streets (SCAG 2020).

Transportation Sector Specific Regulations

Assembly Bill 1493

California vehicle GHG emission standards were enacted under AB 1493 (Pavley I). Pavley I is a clean-car standard that reduces GHG emissions from new passenger vehicles (light-duty auto to medium-duty vehicles) from 2009 through 2016 and was anticipated to reduce GHG emissions from new passenger vehicles by 30 percent in 2016. California implements the Pavley I standards through a waiver granted to California by the EPA. In 2012, the EPA issued a Final Rulemaking that sets even more stringent fuel economy and GHG emissions standards for model years 2017 through 2025 light-duty vehicles (see also the discussion on the update to the Corporate Average Fuel Economy standards under *Federal Laws*, above). In January 2012, CARB approved the Advanced Clean Cars program (formerly known as Pavley II) for model years 2017 through 2025. The program combined the control of smog, soot, and GHGs with requirements for greater numbers of ZE vehicles into a single package of standards. Under California's Advanced Clean Car program, by 2025, new automobiles will emit 34 percent less GHG emissions and 75 percent less smog-forming emissions.

Executive Order S-01-07

On January 18, 2007, the state set a new LCFS for transportation fuels sold in the state. EO S-01-07 set a declining standard for GHG emissions measured in grams of CO₂e per unit of fuel energy sold in California. The LCFS required a reduction of 2.5 percent in the carbon intensity of California's transportation fuels by

2015 and a reduction of at least 10 percent by 2020. The standard applied to refiners, blenders, producers, and importers of transportation fuels, and used market-based mechanisms to allow these providers to choose the most economically feasible methods for reducing emissions during the "fuel cycle."

Executive Order B-16-2012

On March 23, 2012, the state identified that CARB, the California Energy Commission (CEC), the Public Utilities Commission, and other relevant agencies worked with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to accommodate ZE vehicles in major metropolitan areas, including infrastructure to support them (e.g., electric vehicle charging stations). EO B-16-2012 also directed the number of ZE vehicles in California's state vehicle fleet to increase through the normal course of fleet replacement, so that at least 10 percent of fleet purchases of light-duty vehicles are ZE by 2015 and at least 25 percent by 2020. The EO also established a target for the transportation sector of reducing GHG emissions to 80 percent below 1990 levels.

Executive Order N-79-20

On September 23, 2020, Governor Newsom signed Executive Order N-79-20, whose goal is that 100 percent of in-state sales of new passenger cars and trucks will be ZE by 2035. Additionally, the fleet goals for trucks are that 100 percent of drayage trucks are ZE by 2035, and 100 percent of medium- and heavy-duty vehicles in the state are ZE by 2045, where feasible. The Executive Order's goal for the State is to transition to 100 percent ZE off-road vehicles and equipment by 2035, where feasible. On August 25, 2022, CARB adopted the Advanced Clean Cars II (ACC II) regulations that codifies the EO goal of 100 percent of in-state sales of new passenger vehicles and trucks be ZE by 2035. Starting in year 2026, ACC II requires that 35 percent of new vehicles sold be ZE or plug-in hybrids.

Renewables Portfolio: Carbon Neutrality Regulations

Senate Bills 1078, 107, and X1-2, and Executive Order S-14-08

A major component of California's Renewable Energy Program is the renewable portfolio standard (RPS) established under Senate Bills 1078 (Sher) and 107 (Simitian). Under the RPS, certain retail sellers of electricity were required to increase the amount of renewable energy each year by at least 1 percent in order to reach at least 20 percent by December 30, 2010. EO S-14-08 was signed in November 2008, which expanded the state's RPS to 33 percent renewable power by 2020. This standard was adopted by the legislature in 2011 (SB X1-2). Renewable sources of electricity include wind, small hydropower, solar, geothermal, biomass, and biogas. The increase in renewable sources for electricity production decreases indirect GHG emissions from development projects, because electricity production from renewable sources is generally considered carbon neutral.

Senate Bill 350

Senate Bill 350 (de Leon), was signed into law in September 2015 and establishes tiered increases to the RPS—40 percent by 2024, 45 percent by 2027, and 50 percent by 2030. SB 350 also set a new goal to double the energy efficiency savings in electricity and natural gas through energy efficiency and conservation measures.

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Senate Bill 100

On September 10, 2018, Governor Brown signed SB 100. Under SB 100, the RPS for public-owned facilities and retail sellers consists of 44 percent renewable energy by 2024, 52 percent by 2027, and 60 percent by 2030. SB 100 also established a new RPS requirement of 50 percent by 2026. Furthermore, the bill establishes an overall state policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all state agencies by December 31, 2045. Under the bill, the state cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Energy Efficiency Regulations

California Building Code: Building Energy Efficiency Standards

Energy conservation standards for new residential and nonresidential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the CEC) in June 1977 (Title 24, Part 6, of the California Code of Regulations [CCR]). Title 24 requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods.

On August 11, 2021, the CEC adopted the 2022 Building Energy Efficiency Standards, which were subsequently approved by the California Building Standards Commission in December 2021. The 2022 standards went into effect on January 1, 2023, replacing the existing 2019 standards. The 2022 standards would require mixed-fuel single-family homes to be electric-ready to accommodate replacement of gas appliances with electric appliances. In addition, the new standards also include prescriptive photovoltaic system and battery requirements for high-rise, multifamily buildings (i.e., more than three stories) and noncommercial buildings such as hotels, offices, medical offices, restaurants, retail stores, schools, warehouses, theaters, and convention centers (CEC 2021).

California Building Code: CALGreen

On July 17, 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (24 CCR, Part 11, known as "CALGreen") was adopted as part of the California Building Standards Code. CALGreen established planning and design standards for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants.⁴ The mandatory provisions of CALGreen became effective January 1, 2011. In 2021, the CEC approved the 2022 CALGreen, which went into effect on January 1, 2023, replacing the existing 2019 standards.

2006 Appliance Efficiency Regulations

The 2006 Appliance Efficiency Regulations (20 CCR secs. 1601–1608) were adopted by the CEC on October 11, 2006, and approved by the California Office of Administrative Law on December 14, 2006. The regulations include standards for both federally regulated appliances and non–federally regulated appliances.

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⁴ The green building standards became mandatory in the 2010 edition of the code.

Though these regulations are now often viewed as "business as usual," they exceed the standards imposed by all other states, and they reduce GHG emissions by reducing energy demand.

Solid Waste Diversion Regulations

AB 939: Integrated Waste Management Act of 1989

California's Integrated Waste Management Act of 1989 (AB 939, Public Resources Code secs. 40050 et seq.) set a requirement for cities and counties throughout the state to divert 50 percent of all solid waste from landfills by January 1, 2000, through source reduction, recycling, and composting. In 2008, the requirements were modified to reflect a per capita requirement rather than tonnage. To help achieve this, the act required that each city and county prepare and submit a source reduction and recycling element. AB 939 also established the goal for all California counties to provide at least 15 years of ongoing landfill capacity.

AB 341

AB 341 (Chapter 476, Statutes of 2011) increased the statewide goal for waste diversion to 75 percent by 2020 and requires recycling of waste from commercial and multifamily residential land uses. Section 5.408 of CALGreen also requires that at least 65 percent of the nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse.

AB 1327

The California Solid Waste Reuse and Recycling Access Act (AB 1327, Public Resources Code secs. 42900 et seq.) required areas to be set aside for collecting and loading recyclable materials in development projects. The act required the California Integrated Waste Management Board to develop a model ordinance for adoption by any local agency requiring adequate areas for collection and loading of recyclable materials as part of development projects. Local agencies are required to adopt the model or an ordinance of their own.

AB 1826

In October 2014 Governor Brown signed AB 1826 requiring businesses to recycle their organic waste on and after April 1, 2016, depending on the amount of waste they generate per week. This law also requires that on and after January 1, 2016, local jurisdictions across the state implement an organic waste recycling program to divert organic waste generated by businesses and multifamily residential dwellings with five or more units. Organic waste means food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed with food waste.

Water Efficiency Regulations

SBX7-7

The 20x2020 Water Conservation Plan was issued by the Department of Water Resources (DWR) in 2010 pursuant to Senate Bill 7, which was adopted during the 7th Extraordinary Session of 2009–2010 and therefore dubbed "SBX7-7." SBX7-7 mandated urban water conservation and authorized the DWR to prepare a plan implementing urban water conservation requirements (20x2020 Water Conservation Plan). In addition, it required agricultural water providers to prepare agricultural water management plans, measure

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water deliveries to customers, and implement other efficiency measures. SBX7-7 required urban water providers to adopt a water conservation target of 20 percent reduction in urban per capita water use by 2020 compared to 2005 baseline use.

AB 1881: Water Conservation in Landscaping Act

The Water Conservation in Landscaping Act of 2006 (AB 1881) requires local agencies to adopt the updated DWR model ordinance or an equivalent. AB 1881 also required the CEC to consult with the DWR to adopt, by regulation, performance standards and labeling requirements for landscape irrigation equipment, including irrigation controllers, moisture sensors, emission devices, and valves to reduce the wasteful, uneconomic, inefficient, or unnecessary consumption of energy or water.

Short-Lived Climate Pollutant Reduction Strategy

Senate Bill 1383

On September 19, 2016, the Governor signed SB 1383 to supplement the GHG reduction strategies in the Scoping Plan to consider short-lived climate pollutants, including black carbon and CH₄. Black carbon is the light-absorbing component of fine particulate matter produced during the incomplete combustion of fuels. SB 1383 required the state board, no later than January 1, 2018, to approve and begin implementing a comprehensive strategy to reduce emissions of short-lived climate pollutants to achieve a reduction in methane by 40 percent, hydrofluorocarbon gases by 40 percent, and anthropogenic black carbon by 50 percent below 2013 levels by 2030. The bill also established targets for reducing organic waste in landfills. On March 14, 2017, CARB adopted the Short-Lived Climate Pollutant Reduction Strategy, which identifies the state's approach to reducing anthropogenic and biogenic sources of short-lived climate pollutants. Anthropogenic sources of black carbon include on- and off-road transportation, residential wood burning, fuel combustion (charbroiling), and industrial processes. According to CARB, ambient levels of black carbon in California are 90 percent lower than in the early 1960s, despite the tripling of diesel fuel use (CARB 2017a). In-use on-road rules were expected to reduce black carbon emissions from on-road sources by 80 percent between 2000 and 2020. South Coast AQMD is one of the air districts that requires air pollution control technologies for chain-driven broilers, which reduces particulate emissions from these charbroilers by over 80 percent (CARB 2017a). Additionally, South Coast AQMD Rule 445 limits installation of new fireplaces in the South Coast Air Basin.

Local

Santa Monica – Malibu Unified School District Districtwide Plan for Sustainability

The District adopted its Districtwide Plan for Sustainability (Sustainability Plan) in 2019 to provide a strategic roadmap for formalizing and uniting the District's many existing sustainability initiatives; incorporating sustainability into Education Services and all aspects of student learning; and integrating climate protection, resource efficiency, waste management, and other sustainability practices into District operations. The Sustainability Plan establishes a framework for assessment and progress on each focus area by documenting baseline conditions, establishing key goals and performance indicators, highlighting current initiatives and best practices, recommending improvement strategies, and anticipating project costs and funding mechanisms

(SMMUSD 2019). The Sustainability Plan builds on and advances the District's existing sustainability commitments by identifying goals and recommended strategies over the following eight sustainability focus areas: climate, education and engagement, energy efficiency and renewable, water, solid waste, transportation, food, nutrition and wellness, green building and operations.

5.6.1.3 EXISTING CONDITIONS

California's GHG Sources and Relative Contribution

In 2021, the statewide GHG emissions inventory was updated for 2000 to 2019 emissions using the GWPs in IPCC's AR4 (IPCC 2013). Based on these GWPs, California produced 418.2 MMTCO₂e GHG emissions in 2019. California's transportation sector was the single largest generator of GHG emissions, producing 39.7 percent of the state's total emissions. Industrial sector emissions made up 21.1 percent, and electric power generation made up 14.1 percent of the state's emissions inventory. Other major sectors of GHG emissions include commercial and residential (10.5 percent), agriculture and forestry (7.6 percent), high GWP (4.9 percent), and recycling and waste (2.1 percent) (CARB 2021).

Since the peak level in 2004, California's GHG emission shave generally followed a decreasing trend. In 2016, California statewide GHG emissions dropped below the AB 32 target for year 2020 of 431 MMTCO₂e and have remained below this target since then. In 2019, emissions from routine GHG-emitting activities statewide were almost 13 MMTCO₂e lower than the AB 32 target for year 2020. Per-capita GHG emissions in California have dropped from a 2001 peak of 14.0 MTCO₂e per person to 10.5 MTCO₂e per person in 2019, a 25 percent decrease.

Transportation emissions continued to decline in 2019 statewide as they had done in 2018, with even more substantial reductions due to a significant increase in renewable diesel. Since 2008, California's electricity sector has followed an overall downward trend in emissions. In 2019, solar power generation continued its rapid growth since 2013. Emissions from high-GWP gases comprised 4.9 percent of California's emissions in 2019. This continues the increasing trend as the gases replace ozone-depleting substances being phased out under the 1987 Montreal Protocol. Overall trends in the inventory also demonstrate that the carbon intensity of California's economy (the amount of carbon pollution per million dollars of gross domestic product) has declined 45 percent since the 2001 peak, though the state's gross domestic product grew 63 percent during this period (CARB 2021).

Proposed Project's Site GHG Emissions

The existing McKinley elementary school campus currently generates GHG emissions from transportation (student, staff, and vendor vehicle trips), area sources (consumer products and cleaning supplies), energy use, water use and wastewater generation, and solid waste disposal. Only data related to existing building energy GHG emissions is provided as the District does not have data available for other GHG sources. Table 5.6-4 shows the existing emissions from building energy use by McKinley ES.

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Table 5.6-4 Existing GHG Emissions¹

Source	GHG Emissions (MTCO ₂ e)	
Energy ¹	66	

Sources: SMMUSD

5.6.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would:

- GHG-1 Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
- GHG-2 Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

5.6.2.1 SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

South Coast AQMD adopted a significance threshold of 10,000 MTCO₂e per year for permitted (stationary) sources of GHG emissions for which South Coast AQMD is the designated lead agency. To provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents, South Coast AQMD convened a GHG CEQA Significance Threshold Working Group. Based on the last Working Group meeting in September 2010 (Meeting No. 15), the South Coast AQMD Working Group identified a tiered approach for evaluating GHG emissions for development projects where South Coast AQMD is not the lead agency (South Coast AQMD 2010a). The following tiered approach has not been formally adopted by South Coast AQMD.

- **Tier 1.** If a project is exempt from CEQA, project-level and contribution to significant cumulative GHG emissions are less than significant.
- Tier 2. If the project complies with a GHG emissions reduction plan or mitigation program that avoids or substantially reduces GHG emissions in the project's geographic area (e.g., city or county), project-level and contribution to significant cumulative GHG emissions are less than significant.
- Tier 3. If GHG emissions are less than the screening-level criterion, project-level and contribution to significant cumulative GHG emissions are less than significant.

For projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, South Coast AQMD Working Group requires an assessment of GHG emissions. Project-related GHG emissions include on-road transportation, energy use, water use, wastewater generation, solid waste disposal, area sources, off-road emissions, and construction activities. The South Coast AQMD Working Group decided that because construction activities would result in a "one-time" net increase in GHG

¹ Existing emissions are based on the GHG emissions related to building electricity and natural gas use on the McKinley ES campus, as provided by the District.

emissions, construction activities should be amortized into the operational phase GHG emissions inventory based on the service life of a building. For buildings in general, it is reasonable to look at a 30-year time frame, since this is a typical interval before a new building requires the first major renovation. South Coast AQMD Working Group identified a screening-level threshold of 3,000 MTCO₂e annually for all land use types (bright-line screening level). The bright-line screening-level criteria are based on a review of the Governor's Office of Planning and Research database of CEQA projects. Based on review of 711 CEQA projects, 90 percent of CEQA projects would exceed the bright-line thresholds. Therefore, projects that do not exceed the bright-line threshold would have a nominal and less than cumulatively considerable impact on GHG emissions. South Coast AQMD Working Group recommends use of the 3,000 MTCO₂e interim bright-line screening-level criterion for all project types (South Coast AQMD 2010b).

■ Tier 4. If emissions exceed the screening threshold, a more detailed review of the project's GHG emissions is warranted.

The South Coast AQMD Working Group's bright-line screening-level criterion of 3,000 MTCO₂e per year is used as the significance threshold for the Proposed Project. If the project operation-phase emissions exceed this criterion, GHG emissions would be considered potentially significant without mitigation measures.

5.6.2.2 MASS EMISSIONS AND HEALTH EFFECTS

On December 24, 2018, in Sierra Club et al. n. County of Fresno et al. (Friant Ranch), the California Supreme Court determined that the EIR for the proposed Friant Ranch project failed to adequately analyze the project's air quality impacts on human health. The EIR prepared for the project, which involved a master planned retirement community in Fresno County, showed that project-related mass emissions would exceed the San Joaquin Valley Air Pollution Control District's regional significance thresholds. In its findings, the California Supreme Court affirmed the holding of the Court of Appeal that EIRs for projects must not only identify impacts to human health, but also provide an "analysis of the correlation between the project's emissions and human health impacts" related to each criterion air pollutant that exceeds the regional significance thresholds or explain why it could not make such a connection. In general, the ruling focuses on the correlation of emissions of toxic air contaminants and criteria air pollutants and their impact to human health.

In 2009, the EPA issued an endangerment finding for six GHGs [CO₂, CH₄, N₂O, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and SF₆] in order to regulate GHG emissions from passenger vehicles. The endangerment finding is based on evidence that shows an increase in mortality and morbidity associated with increases in average temperatures, which increase the likelihood of heatwaves and ozone levels. The effects of climate change are identified in Table 5.6-2. Though identified effects such as sea level rise and increased extreme weather can indirectly impact human health, neither the EPA nor CARB has established ambient air quality standards for GHG emissions. The state's GHG reduction strategy outlines a path to avoid the most catastrophic effects of climate change. Yet the state's GHG reduction goals and strategies are based on the state's path toward reducing statewide cumulative GHGs as outlined in AB 32, SB 32, and EO S-03-05.

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Because no single project is large enough to result in a measurable increase in global concentration of GHG emissions, climate change impacts of a project are considered on a cumulative basis. Without federal ambient air quality standards for GHG emissions and given the cumulative nature of GHG emissions and the District's significance thresholds, which are tied to reducing the state's cumulative GHG emissions, it is not feasible at this time to connect the project's specific GHG emissions to the potential health impacts of climate change.

5.6.3 Environmental Impacts

5.6.3.1 METHODOLOGY

Project Design Features

The Proposed Project would include features that would reduce criteria air pollutant emissions:

■ **PDF GHG-1.** New buildings are required to achieve the current California Building Energy and Efficiency Standards (Title 24, Part 6) and CALGreen (Title 24, Part 11).

This GHG evaluation was prepared in accordance with the requirements of CEQA to determine if significant GHG impacts are likely in conjunction with the Proposed Project. South Coast AQMD has published guidelines that are intended to provide local governments with guidance for analyzing and mitigating environmental impacts, and they were used in this analysis. The analysis in this section is based on buildout of the Proposed Project, in consideration of the existing facilities to remain on-site, as modeled using CalEEMod, Version 2022.1, for short-term construction emissions:

Construction Phase

Construction would entail building and asphalt demolition and debris haul, site preparation, rough grading, fine grading, utilities trenching, building construction, paving, architectural coating, and finishing and landscaping over 5.7 acres of the 6.48-acre Proposed Project's Site. The Proposed Project was modeled over three construction phases, with Phase 1 occurring over 18 months between June 2023 and December 2024, Phase 2 occurring over 18 months between June 2025 and December 2026, and Phase 3 occurring over 21 months from June 2028 and March 2030. Annual construction emissions were amortized over 30 years and included in the emissions inventory to account for one-time GHG emissions from the construction phase of the Proposed Project (South Coast AQMD 2009).

Operational Phase

Following completion of construction over the three construction phases, the campus would operate in a manner similar to existing conditions. In addition, because enrollment, staffing, and types of activities used by both the school and the community would operate in the same manner as existing conditions, the Proposed

⁵ Proposed Project modeling shows a total of 6.14 acres disturbed on the McKinley ES campus as there is overlap in area where each construction phase would occur.

Project would not result in an increase in mobile emissions, which generally contribute the majority of GHG emissions associated with a project. As such, operation of the Proposed Project was described qualitatively.

Life cycle emissions are not included in the GHG analysis, consistent with California Resources Agency directives.⁶ Black carbon emissions are not included in the GHG analysis because CARB does not include this pollutant in the state's 2022 Scoping Plan inventory but treats this short-lived climate pollutant separately.⁷ Additionally, while not anticipated, industrial sources of emissions that require a permit from South Coast AQMD (permitted sources) are not included in the Proposed Project community inventory since they have separate emission reduction requirements. GHG modeling is included in Appendix D of this DEIR.

5.6.3.2 IMPACT ANALYSIS

The following impact analysis addresses the thresholds of significance for which the Initial Study/Notice of Preparation disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.6-1: The Proposed Project would not generate greenhouse gas (GHG) emissions, either directly or indirectly, that may have a significant impact on the environment. [Threshold GHG-1])

Global climate change is not confined to a particular project area and is generally accepted as the consequence of global industrialization over the last 200 years. A typical project, even a very large one, does not generate enough greenhouse gas emissions on its own to influence global climate change significantly; hence, the issue of global climate change is, by definition, a cumulative environmental impact.

Construction

Implementation of the Proposed Project would result in the redevelopment and modernization of the McKinley ES campus.

Annual average construction emissions were amortized over 30 years and included in the emissions inventory to account for one-time GHG emissions from the three construction phases of the Proposed Project (South Coast AQMD 2009). The construction-related emissions are quantified and shown in Table 5.6-5, *Project-Related GHG Emissions*.

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⁶ Life cycle emissions include indirect emissions associated with materials manufacture. However, these indirect emissions involve numerous parties, each of which is responsible for GHG emissions of their particular activity. The California Resources Agency, in adopting the CEQA Guidelines Amendments on GHG emissions found that lifecycle analyses was not warranted for project-specific CEQA analysis in most situations, for a variety of reasons, including lack of control over some sources, and the possibility of double-counting emissions (see Final Statement of Reasons for Regulatory Action, December 2009). Because the amount of materials consumed during the operation or construction of the Proposed Project is not known, the origin of the raw materials purchased is not known, and manufacturing information for those raw materials are also not known, calculation of life cycle emissions would be speculative. A life-cycle analysis is not warranted (OPR 2008).

Particulate matter emissions, which include black carbon, are analyzed in Section 5.2, Air Quality. Black carbon emissions have sharply declined due to efforts to reduce on-road and off-road vehicle emissions, especially diesel particulate matter. The State's existing air quality policies will virtually eliminate black carbon emissions from on-road diesel engines within 10 years (CARB 2017a).

Table 5.6-5 Project-Related GHG Emissions

	GHG Emissions ¹
Source	MTCO₂e Per Year
Mobile ¹	0
Area	2
Energy ²	246
Water ¹	1
Solid Waste ¹	0
Refrigerants ¹	0
Amortized Construction Emissions ³	41
Total Emissions	290
Existing Building Energy GHG Emissions ⁴	66 ⁴
Net Change in Emissions	224
South Coast AQMD Bright-Line Threshold	3,000 MTCO ₂ e/Yr.
Exceeds Bright-Line Threshold?	No
0 0-IFFMI \/	

Source: CalEEMod, Version 2022.1.0.

Notes: MTons = metric tons; MTCO2e = metric ton of carbon dioxide equivalent

Operation

The operational emissions are quantified and shown in Table 5.6-5, Project-Related GHG Emissions. Because student capacity and staffing would not increase or change after full buildout of the three construction phases, the Proposed Project would not result in an increase in emissions from mobile sources, solid waste generation, or wastewater generation and GHG emissions from the Proposed Project would be minimal.8 In addition, GHG emissions from building energy use would be minimized because the portable building classrooms and older buildings on the campus, which were constructed prior to modern building energy codes, would be replaced with newer, more energy-efficient buildings that meet the current California Building and Energy Efficiency Standards. The Building Energy Efficiency Standards mandate an increase in building energy efficiency every three years, and therefore, the new Proposed buildings would be more energy efficient than the existing school buildings (CEC 2022). The Proposed new classroom buildings would be equipped to support photovoltaic systems in addition to building features such as occupancy sensors for classrooms and offices, which would off-set and reduce building energy use.

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Because student capacity is not anticipated to increase, the Proposed Project would not result in an increase in emissions from mobile sources, solid waste generation, refrigerants, or wastewater generation. Emissions from water use are based on the increase in landscaped area.

² Energy use includes both new buildings and existing buildings to remain, and is based on CalEEMod default rates for energy

³ Total construction emissions for all three Phases of construction are amortized over 30 years per South Coast AQMD methodology (South Coast AQMD 2009).

⁴ Only data related to existing building energy GHG emissions are included as the District does not have data available for other GHG sources.

⁸ Emissions from water use are based on the increase in landscaped area at McKinley ES.

Summary

As identified above, the Proposed Project would result in a one-time increase in construction emissions and a nominal increase in GHG emissions over the Proposed Project lifetime. Overall, the redevelopment and operation of the Proposed Project would not generate annual emissions that exceed the South Coast AQMD Working Group bright-line threshold of 3,000 metric tons of carbon dioxide equivalent (MTCO₂e) per year (South Coast AQMD 2010). Therefore, the Proposed Project's cumulative contribution to GHG emissions from construction and operational activities would be **less than significant**.

Impact 5.6-2: The Proposed Project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. [Threshold GHG-2])

Applicable plans adopted for the purpose of reducing GHG emissions include CARB's Scoping Plan and the SCAG's RTP/SCS. A consistency analysis with these plans is presented below.

CARB 2022 Scoping Plan

CARB's latest Climate Change Scoping Plan (2022) outlines the State's strategies to reduce GHG emissions in accordance with the targets established under AB 32, SB 32, and AB 1279. The Scoping Plan is applicable to State agencies and is not directly applicable to cities/counties and individual projects. Nonetheless, the Scoping Plan has been the primary tool that is used to develop performance-based and efficiency-based CEQA criteria and GHG reduction targets for climate action planning efforts.

Statewide strategies to reduce GHG emissions in the 2022 Climate Change Scoping Plan include: implementing SB 100, which expands the RPS to 60 percent by 2030; expanding the Low Carbon Fuel Standards (LCFS) to 18 percent by 2030; implementing the Mobile Source Strategy to deploy zero-electric vehicle buses and trucks; implementing the Sustainable Freight Action Plan; implementing the Short-Lived Climate Pollutant Reduction Strategy, which reduces methane and hydrofluorocarbons to 40 percent below 2013 levels by 2030 and black carbon emissions to 50 percent below 2013 levels by 2030; continuing to implement SB 375; creating a post-2020 Cap-and-Trade Program; and developing an Integrated Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Statewide strategies to reduce GHG emissions include the low carbon fuel standards, California Appliance Energy Efficiency regulations, California Renewable Energy Portfolio standard, changes in the CAFE standards, and other early action measures as necessary to ensure the State is on target to achieve the GHG emissions reduction goals of AB 32, SB 32, and AB 1279. In addition, new developments are required to comply with the current Building Energy Efficiency Standards and CALGreen. The Proposed Project would comply with these GHG emissions reduction measures since they are statewide strategies. The Proposed Project's GHG emissions would be reduced from compliance with statewide measures that have been adopted since AB 32, SB 32, and AB 1279 were adopted. Therefore, impacts would be less than significant.

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SCAG's Regional Transportation Plan / Sustainable Communities Strategy

SCAG adopted the 2020-2045 RTP/SCS (Connect SoCal) in September 2020. Connect SoCal finds that land use strategies that focus on new housing and job growth in areas rich with destinations and mobility options would be consistent with a land use development pattern that supports and complements the proposed transportation network. The overarching strategy in Connect SoCal is to plan for the southern California region to grow in more compact communities in transit priority areas and priority growth areas; provide neighborhoods with efficient and plentiful public transit; establish abundant and safe opportunities to walk, bike, and pursue other forms of active transportation; and preserve more of the region's remaining natural lands and farmlands (SCAG 2020). Connect SoCal's transportation projects help more efficiently distribute population, housing, and employment growth, and forecast development is generally consistent with regional-level general plan data to promote active transportation and reduce GHG emissions. The projected regional development, when integrated with the proposed regional transportation network in Connect SoCal, would reduce per-capita GHG emissions related to vehicular travel and achieve the GHG reduction per capita targets for the SCAG region.

The Connect SoCal Plan does not require that local general plans, specific plans, or zoning be consistent with the SCS, but provides incentives for consistency to governments and developers. Nevertheless, the Proposed Project would redevelop and modernize facilities for the existing and future students of McKinley ES within an existing operational school campus and would not change underlying zoning or uses on the Proposed Project's Site. The Proposed Project would continue to serve the local student population within the surrounding communities. Since the modernization of the existing school campus would continue to be a local-serving land use, and because the Proposed Project would not result in an increase in student capacity or staff, the Proposed Project would not generate an increase in VMT. Therefore, the Proposed Project would not interfere with SCAG's ability to implement the regional strategies in Connect SoCal, and impacts would be less than significant.

Santa Monica – Malibu Unified School District Districtwide Plan for Sustainability

Adopted by the District in 2019, the Sustainability Plan is intended to provide a roadmap to formalize and unite the District's existing sustainability initiatives in addition to incorporating and integrating sustainability practices into student learning and District operations. As seen under Impact 5.4-2 of Chapter 5.4, *Energy*, the Proposed Project is consistent with the broad strategies outlined in the Sustainability Plan, which would reduce GHG emissions through energy efficiency. Therefore, the Proposed Project would not interfere with implementation of the District's Sustainability Plan, and impacts would be **less than significant**.

5.6.4 Mitigation Measures

No mitigation measures are required.

5.6.5 Level of Significance After Mitigation

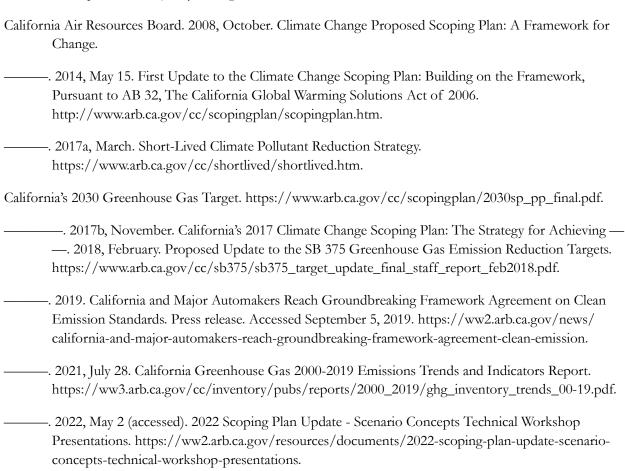
All impacts are less than significant.

5.6.6 Cumulative Impacts

Project-related GHG emissions are not confined to a particular air basin but are dispersed worldwide. Therefore, Impact 5.6-1 is not a project-specific impact, but the Proposed Project's contribution to a cumulative impact. Implementation of the Proposed Project would not result in annual emissions that would exceed South Coast AQMD's bright-line threshold. Therefore, project-related GHG emissions and their contribution to global climate change would not be cumulatively considerable, and GHG emissions impacts would be **less than significant**.

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5. Environmental Analysis

5.7 HAZARDS AND HAZARDOUS MATERIALS

This section of the DEIR evaluates the potential impacts of the McKinley Elementary School Campus Master Plan Project (Proposed Project) on human health and the environment due to exposure to hazardous materials or conditions associated with the Proposed Project's Site, project construction, and project operations. Potential Project impacts and appropriate mitigation measures or standard conditions are included as necessary.

The analysis in this section is based, in part, upon the following source:

 Phase I Environmental Site Assessment Report: McKinley Elementary School 2401 Santa Monica Boulevard, Santa Monica, California, 90404, NV5 Alta Environmental, April 19, 2022.

A complete copy of this study is included in Appendix I to this DEIR.

No comments were received in response to the Initial Study/Notice of Preparation (IS/NOP) in regard to hazards and hazardous materials. The IS/NOP and all scoping comment letters are included as Appendices B and C of this DEIR.

5.7.1 Environmental Setting

Hazardous materials refer generally to hazardous substances that exhibit corrosive, poisonous, flammable, and/or reactive properties and have the potential to harm human health and/or the environment. Hazardous materials can include petroleum, natural gas, synthetic gas, acutely toxic chemicals, and other toxic chemicals that are used in agriculture, commercial, and industrial uses; businesses; hospitals; schools; and households (such as cleaners, solvents, paints, and pesticides). Accidental releases of hazardous materials can occur from a variety of causes, including traffic accidents, shipping accidents, and industrial/warehouse incidents.

5.7.1.1 REGULATORY BACKGROUND

Federal, state, and local laws, regulations, plans, or guidelines related to hazardous materials that are applicable to the Proposed Project are summarized below.

Federal

United States Environmental Protection Agency

The United States Environmental Protection Agency (EPA) is the primary federal agency that regulates hazardous materials and waste. In general, the EPA works to develop and enforce regulations that implement environmental laws enacted by Congress. The agency is responsible for researching and setting national standards for a variety of environmental programs and delegates to states and tribes the responsibility for issuing permits and for monitoring and enforcing compliance. EPA programs promote handling hazardous wastes safely, cleaning up contaminated land, and reducing trash. Under the authority of the Resource Conservation and Recovery Act (RCRA) and in cooperation with state and tribal partners, the EPA's Waste Management Division manages a hazardous waste program, an underground storage tank (UST) program, and a solid waste program that includes development of waste reduction strategies such as recycling.

Title 26, Part 1926 of the Code of Federal Regulations

Title 26, Part 1926 of the Code of Federal Regulations (CFR) establishes standards for general safety and health provisions, occupational health and environmental controls, demolition, toxic and hazardous substances, and other aspects of construction work. For example, it establishes standards for general safety and health, such as development and maintenance of an effective fire protection and prevention program at jobsites. It also establishes standards for occupational health and environmental controls, such as for exposure to lead and asbestos.

Resource Conservation and Recovery Act

Federal hazardous waste laws are generally promulgated under the Resource Conservation and Recovery Act of 1976, as amended by the Hazardous and Solid Waste Amendments of 1984. These laws provide for the "cradle to grave" regulation of hazardous wastes. Any business, institution, or other entity that generates hazardous waste is required to identify and track its hazardous waste from the point of generation until it is recycled, reused, or disposed. The Department of Toxic Substances Control (DTSC) is responsible for implementing the RCRA program as well as California's own hazardous waste laws, which are collectively known as the Hazardous Waste Control Law. Under the Unified Program, the California Environmental Protection Agency (CalEPA) has in turn delegated enforcement authority to Santa Monica Fire Department for state law regulating hazardous waste producers or generators in Santa Monica. A certified Unified Program agency (CUPA) is a local agency that has been certified by CalEPA to implement the local Unified Program. The CUPA can be a county, city, or joint powers authority. A participating agency is a local agency that has been designated by the local CUPA to administer one or more Unified Programs within their jurisdiction on behalf of the CUPA. A designated agency is a local agency that has not been certified by CalEPA to become a CUPA but is the responsible local agency that would implement the six Unified Programs until they are certified. Currently, there are 83 CUPAs in California.

Emergency Planning Community Right-to-Know Act

The Emergency Planning Community Right-to-Know Act (EPCRA), also known as Title III of the Superfund Amendments and Reauthorization Act, was enacted in October 1986. This law requires any infrastructure at the state and local levels to plan for chemical emergencies. Reported information is made publicly available so that interested parties can be informed about potentially dangerous chemicals in their community. EPCRA Sections 301 through 312 are administered by the EPA's Office of Emergency Management. The EPA's Office of Information Analysis and Access implements the program in EPCRA Section 313. In California, Superfund Amendments and Reauthorization Act Title III is implemented through the California Accidental Release Prevention program. The State has delegated local oversight authority of the California Accidental Release Prevention program to the Santa Monica Fire Department.

Hazardous Materials Transportation Act

The US Department of Transportation regulates hazardous materials transportation under CFR Title 49. State agencies that have primary responsibility for enforcing federal and state regulations and responding to hazardous materials transportation emergencies are the California Highway Patrol and the California

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Department of Transportation. The California State Fire Marshal's Office has oversight authority for hazardous materials liquid pipelines. The California Public Utilities Commission has oversight authority for natural gas pipelines. These agencies also govern permitting for hazardous materials transportation.

Federal Response Plan

The Federal Response Plan of 1999 is a signed agreement among 27 federal departments and agencies and other resource providers, including the American Red Cross, that: 1) provides the mechanism for coordinating delivery of federal assistance and resources to augment efforts of state and local governments overwhelmed by a major disaster or emergency; 2) supports implementation of the Robert T. Stafford Disaster Relief and Emergency Act as well as individual agency statutory authorities; and 3) supplements other federal emergency operations plans developed to address specific hazards. The Federal Response Plan is implemented in anticipation of a significant event likely to result in a need for federal assistance or in response to an actual event requiring federal assistance under a Presidential declaration of a major disaster or emergency. The Federal Response Plan is part of the National Response Framework, which was most recently updated in October 2019.

Occupational Safety and Health Administration

The federal Occupational Safety and Health Act of 1970 authorizes each state (including California) to establish its own safety and health programs with the U.S. Department of Labor, Occupational Safety and Health Administration's (OSHA) approval. The California Department of Industrial Relations regulates implementation of worker health and safety in California. Cal/OSHA enforcement units conduct on-site evaluations and issue notices of violation to enforce necessary improvements to health and safety practices. California standards for workers dealing with hazardous materials are in Title 8 of the California Code of Regulations (CCR); they include practices for all industries (General Industrial Safety Orders) and specific practices for construction and other industries. Workers at hazardous waste sites (or working with hazardous wastes that might be encountered during excavation of contaminated soil) must receive specialized training and medical supervision according to the Hazardous Waste Operations and Emergency Response regulations.

OSHA Regulation 29 CFR Standard 1926.62 regulates the demolition, renovation, or construction of buildings involving lead materials. Federal, state, and local requirements also govern the removal of asbestos or suspected asbestos-containing materials (ACM), including the demolition of structures where asbestos is present. All friable (crushable by hand) ACMs, or nonfriable ACMs subject to damage, must be abated following all applicable regulations and prior to demolition.

State

California Environmental Protection Agency

CalEPA was created in 1991 by Governor's Executive Order. Under the CalEPA umbrella are six boards and departments—Air Resources Board, Department of Resources Recycling and Recovery, Department of Pesticides Regulations, DTSC, Office of Environmental Health Hazard Assessment, and State Water Resources Control Board—to create a cabinet-level voice for the protection of human health and the environment and

to ensure the coordinated deployment of state resources. CalEPA oversees the unified hazardous waste and hazardous materials management regulatory program.

California Department of Toxic Substances Control

DTSC is a department of CalEPA, which authorizes DTSC to administer the RCRA program in California to protect people from exposure to hazardous wastes. The department regulates hazardous waste, cleans up existing contamination, and implements regulations to control and reduce the hazardous waste produced in California, primarily under the authority of RCRA and in accordance with the California Hazardous Waste Control Law (California Health and Safety Code [HSC], Division 20, Chapter 6.5) and the Hazardous Waste Control Regulations (22 CCR Divisions 4 and 4.5). Permitting, inspection, compliance, and corrective action programs ensure that people who manage hazardous waste follow state and federal requirements and other laws that affect hazardous waste specific to handling, storage, transportation, disposal, treatment, reduction, cleanup, and emergency planning.

DTSC's Brownfields Restoration and School Evaluation Branch is responsible for assessing, investigating, and cleaning up proposed school sites and existing school sites. The oversight is to ensure that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school. All proposed school sites and existing school sites that will receive State funding for acquisition or construction are required to go through an environmental review and cleanup process under DTSC's oversight.

Government Code Section 65962.5

Government Code section 65962.5 requires, among other items, that the Department of Toxic Substances Control compile and update as appropriate, but at least annually, a list of the following sites and shall submit the list to the Secretary for Environmental Protection, including:

- (a) (1) All hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code.
- (2) All land designated as hazardous waste property or border zone property pursuant to former Article 11 (commencing with Section 25220) of Chapter 6.5 of Division 20 of the Health and Safety Code.
- (3) All information received by the Department of Toxic Substances Control pursuant to Section 25242 of the Health and Safety Code on hazardous waste disposals on public land.
- (4) All sites listed pursuant to Section 25356 of the Health and Safety Code.

Government Code section 65962.5 also requires that:

(b) The State Department of Health Services shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all public drinking water wells that contain detectable levels of organic contaminants and that are subject to water analysis pursuant to Section 116395 of the Health and Safety Code.

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- (c) The State Water Resources Control Board shall compile and update as appropriate, but at least annually, and shall submit to the Secretary for Environmental Protection, a list of all of the following:
- (1) All underground storage tanks for which an unauthorized release report is filed pursuant to Section 25295 of the Health and Safety Code.
- (2) All solid waste disposal facilities from which there is a migration of hazardous waste and for which a California regional water quality control board has notified the Department of Toxic Substances Control pursuant to subdivision (e) of Section 13273 of the Water Code.
- (3) All cease and desist orders issued after January 1, 1986, pursuant to Section 13301 of the Water Code, and all cleanup or abatement orders issued after January 1, 1986, pursuant to Section 13304 of the Water Code, which concern the discharge of wastes that are hazardous materials.
- (d) The local enforcement agency, as designated pursuant to Section 18051 of Title 14 of the California Code of Regulations, shall compile as appropriate, but at least annually, and shall submit to the Department of Resources Recycling and Recovery, a list of all solid waste disposal facilities from which there is a known migration of hazardous waste. The Department of Resources Recycling and Recovery shall compile the local lists into a statewide list, which shall be submitted to the Secretary for Environmental Protection and shall be available to any person who requests the information.

California Occupational Health and Safety Administration

Occupational safety standards in federal and state laws minimize worker safety risks from both physical and chemical hazards in the workplace. Cal/OSHA is responsible for developing and enforcing workplace safety standards and ensuring worker safety in the handling and use of hazardous materials.

California Building Code

The State of California provides a minimum standard for building design through the California Building Code (CBC), which is in 24 CCR Part 2. The 2022 CBC is based on the 2021 International Building Code but has been modified for California conditions. It is updated every three years, most recently in July 2022 with an effective date of January 1, 2023. The CBC, as adopted by local cities or counties, may be further modified based on local conditions. Typical fire safety requirements of the CBC include the installation of sprinklers in all high-rise buildings; the establishment of fire resistance standards for fire doors, building materials, and particular types of construction; and the clearance of debris and vegetation within a prescribed distance from occupied structures in wildlife hazard areas.

California Department of Forestry and Fire Protection

California Department of Forestry and Fire Protection (CAL FIRE) is dedicated to the fire protection and stewardship of over 31 million acres of California's wildlands. The Office of the State Fire Marshal (OSFM) supports CAL FIRE's mission to protect life and property through fire prevention engineering programs, law and code enforcement, and education. OSFM provides for fire prevention by enforcing fire-related laws in

state-owned or -operated buildings; investigating arson fires; licensing those who inspect and service fire protection systems; approving fireworks for use in California; regulating the use of chemical flame retardants; evaluating building materials against fire safety standards; regulating hazardous liquid pipelines; and tracking incident statistics for local and state government emergency response agencies. The California Fire Plan is the state's road map for reducing the risk of wildfire through planning and prevention to reduce firefighting costs and property losses, increase firefighter safety, and contribute to ecosystem health. The California Fire Plan is a cooperative effort between the State Board of Forestry and Fire Protection and CAL FIRE.

California Fire Code

The California Fire Code (CFC) is in 24 CCR Part 9. It is also updated every three years, most recently in 2022 with an effective date of January 1, 2023. The 2022 CFC is based on the 2021 International Fire Code but has been modified for California conditions. The CFC includes provisions and standards for emergency planning and preparedness, fire service features, fire protection systems, hazardous materials, fire flow requirements, and fire hydrant locations and distribution. Similar to the CBC, the CFC is generally adopted on a jurisdiction-by-jurisdiction basis, subject to further modification based on local conditions.

California Governor's Office of Emergency Services

Through AB 38, the Governor's Office established the California Emergency Management Agency on January 1, 2009. The agency merged the duties, powers, purposes, and responsibilities of the former Governor's Office of Emergency Services with those of the Governor's Office of Homeland Security. CalEMA was responsible for the coordination of overall state agency response to major disasters in support of local government, for ensuring the state's readiness to respond to and recover from all hazards—natural, man-made, emergencies, and disasters—and for assisting local governments in their emergency preparedness, response, recovery, and hazard mitigation efforts. On July 1, 2013, Governor Edmund G. Brown Jr.'s Reorganization Plan #2 eliminated CalEMA and restored it to the Governor's Office as Cal OES, merging it with the Office of Public Safety Communications.

Hazardous Materials Management Act

A hazardous material is any substance that possesses qualities or characteristics that could produce physical damage to the environment and/or cause deleterious effects upon human health (22 CCR). The Hazardous Materials Management Act (22 CCR) requires that businesses and public entities handling or storing certain amounts of hazardous materials prepare a hazardous materials business plan that includes an inventory of hazardous materials stored on-site (above specified quantities), an emergency response plan, and an employee training program. Businesses that use, store, or handle 55 gallons of liquid, 500 pounds of solid, or 200 cubic feet of compressed gas at standard temperature and pressure require a hazardous materials business plan. Plans must be prepared prior to facility operation and are reviewed/updated biennially (or within 30 days of a change).

California Accidental Release Prevention Program

California Accidental Release Prevention Program includes the Federal Accidental Release Prevention Program with certain additions specific to California and pursuant to HSC Article 2, Chapter 6.95. The purpose of this

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program is to prevent the accidental release of regulated substances. Businesses using regulated substances exceeding a threshold quantity are evaluated under this program to determine the potential for and impacts of accidental releases. Depending on the potential hazards, business owners may be required to develop and submit a risk management plan.

Regulations for Hazardous Materials in Structures

Asbestos is regulated as a hazardous air pollutant under the Clean Air Act and as a potential worker safety hazard under the authority of the federal Occupational Safety and Health Administration. Cal/OSHA considers ACM a hazardous substance when a bulk sample contains more than 0.1 percent asbestos by weight and requires a qualified contractor licensed to handle asbestos. Any activity that involves cutting, grinding, or drilling during building renovation or demolition or relocation of underground utilities could release friable asbestos fibers unless proper precautions are taken.

Lead is regulated as a hazardous material, and inorganic lead is regulated as a toxic air contaminant. Lead-containing paints, according to Cal/OSHA, are defined as paints reported with any detectable levels of lead by paint chip analysis (8 CCR § 1532.1(d)). When disturbed for construction purposes, these surfaces are subject to Cal/OSHA exposure assessment requirements.

Several regulations and guidelines pertain to abatement of and protection from exposure to ACM and leadbased paint:

- Lead-based paint
 - 8 CCR Subchapter 4, Construction Safety Orders, § 1532.1
 - 29 CFR 1926, Subpart D
- Asbestos
 - 8 CCR Subchapter 4, section 1529
 - 29 CFR 1926, Subpart Z
 - 40 CFR 61, Subpart M

These rules and regulations provide exposure limits, exposure monitoring, respiratory protection, and good working practice for workers exposed to lead and ACM. In California, ACM and lead-based-paint abatement must be performed and monitored by contractors with appropriate certification from the California Department of Health Services. HSC §§ 17920.10 and 105255 require lead to be contained during demolition activities.

Polychlorinated biphenyls (PCBs) were commonly used in the small capacitor in fluorescent light ballasts through 1979. PCB regulations are included in 40 CFR 761, which requires the material to be incinerated. The entire lighting fixture does not need special handling and disposal as long as the ballast (electrical box) is not leaking. The nonleaking ballasts can be removed and recycled or disposed of properly.

Hazardous Waste Control

HSC, Division 20, Chapter 6.5, and 22 CCR, Division 4.5, Environmental Health Standards for the Management of Hazardous Waste, address how hazardous waste must be handled, stored, transported, treated, and disposed. They provide an effective process for hazardous waste management planning at the local level to ensure adequate handling, storing, transporting, treating, and disposing of hazardous materials.

Regional

South Coast AQMD Rules and Regulations

All projects within the South Coast Air Basin (SoCAB) are subject to South Coast Air Quality Management District (AQMD) rules and regulations in effect at the time of activity.

- Rule 403, Fugitive Dust. This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent, reduce, or mitigate fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth-moving and grading activities.
- Rule 1403, Asbestos Emissions from Demolition/Renovation Activities. The purpose of this rule is to specify work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of ACM. The requirements for demolition and renovation activities include asbestos surveying, notification, ACM removal procedures and time schedules, ACM handling and clean-up procedures, and storage, disposal, and landfilling requirements for asbestos-containing waste materials. All operators are required to maintain records, including waste shipment records, and are required to use appropriate warning labels, signs, and markings.

Local

Certified Unified Program Agency

A Certified Unified Program Agency (CUPA) is a local agency that has been certified by California EPA to implement the local Unified Program. The CUPA can be a county, city, or joint powers authority. A participating agency is a local agency that has been designated by the local CUPA to administer one or more Unified Programs within their jurisdiction on behalf of the CUPA. A designated agency is a local agency that has not been certified by California EPA to become a CUPA but is the responsible local agency that would implement the six unified programs until they are certified.

The Santa Monica Fire Department (SMFD) is the designated CUPA for the City and is the primary local agency with responsibility for implementing federal and state laws pertaining to hazardous materials management. The SMFD maintains records regarding location and status of hazardous materials sites in the City and administers programs that regulate and enforce the transport, use, storage, and manufacturing, and remediation of hazardous materials. The SMFD contracts with the Los Angeles County Fire Department for hazardous waste inspection and enforcement components of the unified program (SMFD 2018).

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Santa Monica Fire Department

The SMFD provides fire protection and emergency services to the city of Santa Monica, including the Proposed Project's Site. Additionally, the SMFD is the CUPA that implements the following programs consistent with state and federal regulations:

- Hazardous Materials Release Response Plans and Inventory Program
- California Accidental Release Prevention Program (CalARP)
- Aboveground Storage Tank Program
- Underground Storage Tank Program

The County of Los Angeles Fire Department, Health and Hazardous Materials Division CUPA administers the City's Hazardous Waste Generator Program, but the SMFD is the primary CUPA for the City Santa Monica (LA County Fire Department 2009).

Federal and state statutes as well as local laws and programs regulate the use, storage, and transportation of hazardous materials and hazardous waste. These regulations can reduce the danger hazardous substances may pose to people under normal daily circumstances and as a result of emergencies and disasters.

Santa Monica Municipal Code

Chapter 5.24, Hazardous Materials Release Response Plans And Inventory

Section 5.24 establishes a hazardous materials release response plan. The ordinance requires all businesses that handle any hazardous material or mixture containing hazardous materials to establish and implement a business plan for emergency response to a release or threatened release of hazardous materials. The business plan must describe emergency response plans and procedures to be used in the event of an accident. The requirements are established to prevent or mitigate the damage to the health and safety of persons and the environment from the release or threatened release of hazardous materials into the workplace and environment.

Emergency Response Plan

The City Office of Emergency Management has prepared the Multi Hazard Functional Emergency Plan. This plan addresses the City's response to natural or human-caused disasters. It provides an overview of operational concepts and identifies components of the City's emergency/disaster management organization with the Standardized Emergency Management Systems and the National Incident Management System. The plan focuses on large-scale events and places emphasis on emergency/disaster planning, volunteer training, public outreach, and resources for disaster response (City of Santa Monica 2013).

The City also prepared the All Hazards Mitigation Plan, which includes resources and information to assist City residents, public and private sector organizations, and others interested in planning for natural hazards. The mitigation plan provides a list of activities that may assist the City in reducing risk and preventing loss from future natural hazard events. The action items address multi hazard issues and activities to be undertaken in the event of earthquakes, landslides, flooding, tsunamis, wildfires, and severe windstorms/thunderstorms (City of Santa Monica 2016).

City of Santa Monica General Plan

The City's General Plan is primarily a policy document that sets goals concerning the community and gives direction to growth and development. In addition, it outlines the programs that were developed to accomplish the goals and policies of the General Plan.

Safety Element

The City of Santa Monica General Plan's Safety Element creates a cohesive guide consisting of specific policy-oriented implementation measures. The intention is to reduce the potential for loss of life, injuries, damage to property, and social and economic dislocation resulting from major hazards throughout the community. The Safety Element has the following goals, policies, and objectives related to hazards and hazardous materials:

Goal 5: Minimize threats to public health and safety from hazardous materials by strengthening local code enforcement actions, especially the potential of multiple releases caused by earthquakes.

- Policy 5.1. The use, storage, and transportation of toxic, explosive, and other hazardous and extremely hazardous materials shall be strictly controlled to prevent unauthorized discharges.
- Policy 5.1.2. The City shall continue to manage the Hazardous Materials Disclosure Program to identify and regulate business handling types and quantities of extremely hazardous materials, or hazardous materials in greater than consumer types and quantities.
- Policy 5.2. Coordinate regional objectives for hazardous materials management with adjacent jurisdictions.

5.7.1.2 EXISTING CONDITIONS

On-Site and Adjacent Uses

The Proposed Project's Site is developed as McKinley ES. The campus is surrounded by low-density residential neighborhoods immediately to the north, west, and south. Commercial uses are to the southeast and southwest, and medical offices are to the south across Santa Monica Boulevard. Providence Saint John's Health Center consists of midrise buildings to the west across 23rd Street. The campus is surrounded by properties zoned for Low-Density Residential (R2) and Mixed-Use Boulevard Low (MUBL) (Santa Monica 2015).

The surrounding residential neighborhood streets include Chelsea Avenue, Arizona Avenue, and 23rd Court (alley). Santa Monica Boulevard, a regional transportation corridor, is immediately south of the campus. Wilshire Boulevard is one block north of the campus.

Site History

The 1921 Santa Monica United States Survey (USGS) topographic quadrangle map shows a single building within the western corner of the Proposed Project's Site, at what is now Chelsea Avenue and Santa Monica Boulevard. The main school building is shown on the 1934 Sawtelle USGS topographic quadrangle map. Based on the 1938 United States Department of Agriculture (USDA) historical aerial photograph, the northern portion of the campus was an undeveloped field. The field in the northeast portion of the Proposed Project's

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area shows some signs of development for open air sports in the 1941 USDA aerial photograph. The school is identified as "McKinley Sch" on the 1950 USGS topographic quadrangle map. No other historic uses were mapped for the Proposed Project's Site.

Phase I Environmental Site Assessment

A Phase I Environmental Site Assessment (ESA) for the McKinley Elementary School was prepared in April 2022. Based on the regulatory database records and historical records, a drycleaner has operated at the property located at 2441 Santa Monica Boulevard from at least 1991 to present day. The drycleaner is located immediately across Chelsea Avenue at the northeast corner of Chelsea Avenue and Santa Monica Boulevard. Records indicate that dry-cleaning equipment used perchloroethylene (a chlorinated solvent) at this facility. While no violations, leaks, spills, or releases are reported, based on the proximity of this facility to the Proposed Project's Site and inherent environmental risk associated with dry-cleaning facilities, the property at 2441 Santa Monica Boulevard is considered to represent a REC for the Proposed Project's Site.

The Phase I ESA also concluded that based on the age of the buildings on the Proposed Project's Site, there is the possibility for lead-based paint (LBP) residues within the shallow soil.

Hazardous Materials Site Database Search

A review of five databases from federal, state, and local environmental regulatory agencies was conducted to identify properties near the Proposed Project's Site with reported unauthorized releases of hazardous materials and to identify properties that use, generate, store, treat or dispose of hazardous materials and chemicals, or release hazardous materials which may impact the campus. The databases searched and the findings regarding the campus and adjacent properties are presented below.

- GeoTracker: State Water Resources Control Board (SWRCB 2023)
- EnviroStor: Department of Toxic Substances Control (DTSC 2023)
- EJScreen: US Environmental Protection Agency (EPA 2023a)
- EnviroMapper: US Environmental Protection Agency (EPA 2023b)
- Solid Waste Information System (SWIS): California Department of Resources Recovery and Recycling (CalRecycle 2023)

The Phase I ESA prepared for the McKinley ES campus identified properties within a one-mile radius of the campus that are listed on federal, and/or local regulatory agency databases. The listed sites are considered unlikely to impact the Proposed Project's Site, based upon factors including (but not limited to):

- The nature of the listing;
- The use of the site;

- When the site was listed and its current listed status;
- The developmental density of the setting;
- The distance between the listed and subject sites as related to the distance that releases are likely to migrate based on local surface and subsurface drainage conditions;
- The presence of intervening drainage divides; and/or the inferred groundwater movement.

However, as described above, one property (drycleaner) located at 2441 Santa Monica Boulevard represents a potential REC for the Proposed Project's Site due to historic activities as a drycleaner.

Hazardous Building Materials and Chemical Storage Areas

Hazardous Building Materials

Several of the buildings on-site were constructed prior to 1980 (Buildings A, B, C, and D). There is potential for lead from LBP to be present in on-site structures built prior to 1978. ACMs may also be present in on-site structures built prior to 1990.

ACM and LBP building surveys and removal/abatement have been conducted for specific areas on the campus including areas of Buildings A, B, C, and D (Alta Environmental 2018).

Storage Tanks

No Aboveground Storage Tanks (ASTs), Underground Storage Tanks (USTs), or Septic Tanks are recorded for the Proposed Project's Site.

Polychlorinated Biphenyls

PCBs were historically used as coolants, insulating materials and lubricants in electrical materials, such as transformers. PCBs were also used widely in caulking and elastic sealant materials, particularly from 1950 through the 1970's until PCBs were banned in 1979. DTSC guidance indicates that PCBs may exist in soil near exterior caulking present in buildings meeting the age criteria and adjacent unpaved areas. A pad-mounted electrical transformer is located on the southern portion of the Proposed Project's Site. Additionally, several pole-mounted electrical transformers were observed along the adjoining properties. No evidence of a past release from the transformers was observed or reported for the Proposed Project's Site.

5.7.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would:

H-1 Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

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- H-2 Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.
- H-3 Emit hazardous emissions or handle hazardous or acutely hazardous materials, substance, or waste within one-quarter mile of an existing or proposed school.
- H-4 Be located on a site which is included on a list of hazardous materials compiled pursuant to Government Code section 65962.5 and, as a result, would create a significant hazard to the public or the environment.
- H-5 For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would result in a safety hazard or excessive noise for people residing or working in the project area.
- H-6 Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.
- H-7 Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires.

The IS/NOP, included as Appendix B, substantiates that impacts associated with the following thresholds would be less than significant; therefore, these impacts will not be further addressed in this DEIR:

- Threshold H-5
- Threshold H-7

These impacts are addressed in Chapter 6, Other CEQA Considerations, and in Appendix B of this DEIR.

5.7.3 Environmental Impacts

5.7.3.1 IMPACT ANALYSIS

The following impact analysis addresses thresholds of significance for which the Initial Study/Notice of Preparation disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

IMPACT 5.7.1: The Proposed Project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. [Thresholds H-1]

Construction

Small amounts of commonly used hazardous substances, such as gasoline, diesel fuel, lubricating oil, grease, glues, and solvents would be used and transported to the Proposed Project's Site during construction of the Proposed Project. These materials are used routinely for similar types of construction projects, and the use of these materials would be temporary during construction activities of the Proposed Project. Any potential spills

or leakage of petroleum products during construction activities are required to be immediately contained, the hazardous material identified, and the material remediated in compliance with applicable state and local regulations for the cleanup and disposal of that contaminant. All contaminated waste encountered would be required to be collected and disposed of at an appropriately licensed disposal or treatment facility.

Federal, state, and local regulations govern the disposal of wastes identified as hazardous that could be produced during removal of existing asphalt and storage buildings, as well as during construction activities. All materials would be handled, transported, used, and disposed of in accordance with all federal, state, and local laws regulating the management and use of hazardous materials, including the Federal RCRA, which includes requirements for hazardous solid waste management; the DTSC Environmental Health Standards for the Management of Hazardous Waste (CCR Title 22, Division 4.5), which include standards for generators and transporters of hazardous waste; South Coast AQMD Rules governing work practice requirements for renovation and demolition activities; and CalOSHA, which includes standards for workplace health and safety. Furthermore, strict adherence to all emergency response plan requirements set forth by the City of Santa Monica and Los Angeles County Fire Department (LACoFD) would be required through the duration of the Proposed Project's construction. Therefore, impacts related to the routine transport, use, or disposal of hazardous materials during construction of each phase of the Proposed Project would be **less than significant**.

Operation

The campus would continue to operate in the same manner as current conditions. Small amounts of hazardous materials that could be used for maintenance of campus facilities and landscaped areas include chemical reagents, solvents, fuels, paints, cleansers, pesticides, and fertilizers. These materials would be similar to those currently used at the campus and throughout the campus. The management, use, storage, and transportation of such hazardous materials is subject to current local, state, and federal laws. Additionally, SMMUSD has a School Safety Plan that outlines procedures to address evacuation, clean up, and communication protocols to protect students and staff in the event of a hazardous materials spill (District 2018), and McKinley ES provides Safety Guidelines and Emergency Information to prepare staff, parents and students in case of an emergency. Therefore, impacts related to the routine transport, use, or disposal of hazardous materials during operation of the Proposed Project would be **less than significant**.

IMPACT 5.7-2: The Proposed Project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. [Threshold H-2]

Construction

As described above, construction of the Proposed Project could potentially involve the use of hazardous materials, including gasoline, diesel fuel, lubricating oil, grease, solvents, and other chemicals. These materials are used routinely for similar types of construction projects, and the use of these materials would be temporary during construction activities of the Proposed Project. Any potential spills or leakage of petroleum products during construction activities are required to be immediately contained, the hazardous material identified, and the material remediated in compliance with applicable state and local regulations for the cleanup and disposal

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of that contaminant. All contaminated waste encountered would be required to be collected and disposed of at an appropriately licensed disposal or treatment facility. All materials would be handled, transported, used, and disposed of in accordance with all federal, state, and local laws regulating the management and use of hazardous materials. Compliance with these regulations would reduce the potential for hazardous materials to be released to the environment during construction.

Based on the age of on-site structures that are proposed for renovation and demolition, hazardous building materials such as LBP, ACMs, and PCBs may be present within the structures. These hazardous materials may also be present in the shallow soils at the campus. The removal of building materials and disturbance of contaminated soils may result in the release of hazardous materials into the environment. Disturbance and removal of these materials could result in the release of hazardous materials into the environment. Exposure of construction workers or members of the public to these substances could result from direct contact with the substance during demolition and/or grading activities, incidental ingestion of the substance, and/or inhalation of airborne dust released from dried hazardous materials.

As described above, the property at 2441 Santa Monica Boulevard operated as a drycleaner. Records indicate that dry-cleaning equipment used perchloroethylene (a chlorinated solvent) at this facility. While no violations, leaks, spills, or releases are reported, based on the proximity of this facility to the campus and inherent environmental risk associated with dry-cleaning facilities there is a potential for chemicals used at this facility to have affected the soils and/or groundwater at the Proposed Project's Site. Impacts would be **potentially significant** due to the potential presence of hazardous building materials and soil contamination at the campus and the potential for the Proposed Project to result in the release of these materials to the environment. **Mitigation Measures HAZ-1** and **HAZ-2** would be implemented prior to building demolition and during construction to ensure that hazardous materials are properly identified and disposed in a manner that minimizes the potential for significant hazards to the public or to the environment to the extent feasible.

Operation

During operations, hazardous materials that could be used for maintenance of campus facilities and landscaped areas include chemical reagents, solvents, fuels, paints, cleansers, pesticides, and fertilizers. These materials would be similar to those currently used at the campus and throughout the campus. The management, use, storage, and transportation of such hazardous materials is subject to local, state, and federal laws. As described in Impact 5.7-2, SMMUSD has a School Safety Plan that outlines procedures to address evacuation, clean up, and communication protocols to protect students and staff in the event of a hazardous materials spill (District 2018), and McKinley ES provides Safety Guidelines and Emergency Information to prepare staff, parents and students in case of an emergency. Therefore, operational impacts associated with the reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment would be **less** than significant.

IMPACT 5.7-3: The Proposed Project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substance, or waste within one-quarter mile of an existing or proposed school. [Threshold H-3]

Construction

The campus is within an existing school. As described in Impacts 5.7-1 and 5.7-2, the Proposed Project's construction activities may involve the use of hazardous materials, such as fuels, oils, mechanical fluids, and other chemicals. These materials are not considered acutely hazardous and would be used in limited quantities. In addition, the transportation, storage, use, and disposal of such hazardous materials during construction activities would be conducted in accordance with applicable federal, state, and local statutes and regulations.

Demolition, remediation, and renovation of existing buildings and earth-moving activities at the campus could result in the release of hazardous building materials and soil contaminants such as ACMs, LBP, and PCBs. Release of these hazardous materials may create a hazard for the public, with the potential to affect students, staff, and visitors at McKinley ES resulting in a **potentially significant** impact. However, compliance with regulatory requirements and implementation of **Mitigation Measures HAZ-1** and **HAZ-2** would ensure that such materials would be properly removed, handled, and disposed. These measures would minimize the potential for the release of hazardous building materials and soil contaminants during construction activities and would ensure that students, faculty, and visitors at McKinley are not exposed to hazardous material releases.

Operation

During operations, hazardous materials that could be used for maintenance of campus facilities and landscaped areas include chemical reagents, solvents, fuels, paints, cleansers, pesticides, and fertilizers. These materials would be similar to those currently used at the campus and throughout the campus. As such, the minor and limited use of hazardous materials on the campus during operations would not be expected to adversely affect students, faculty, and visitors at McKinley ES Adherence to federal, state, and local regulations would minimize risks associated with hazardous emissions in proximity to schools. Therefore, operational impacts associated with hazardous emissions or handling of hazardous or acutely hazardous materials, substance, or waste within one-quarter mile of an existing or proposed school would be **less than significant**.

IMPACT 5.7-4: The Proposed Project would not be located on a site which is included on a list of hazardous materials compiled pursuant to Government Code § 65962.5 and, as a result, would create a significant hazard to the public or the environment. [Threshold H-4]

California Government Code § 65962.5 requires CalEPA to develop a list (updated at least annually) of hazardous waste and substances release sites, known as the Cortese List or California Superfund. DTSC is responsible for a portion of the information in the Cortese List. Other state and local government agencies are required to provide additional hazardous material release information for the Cortese List.

As part of the Phase I ESA, EDR was contracted to perform a radius search of governmental databases for the Proposed Project. According to the search conducted by EDR, the campus was listed on the ECHO database; however, no violations were reported. Additionally, according to the two HWTZ HAZNET database

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listings, this facility disposed of 25.3 tons of asbestos containing waste in 1993, 0.105 tons of inorganic solid waste in 2007, 0.84 tons of waste in 2001, 0.035 tons of inorganic solid waste is 2014, 0.07 tons of inorganic solid waste in 2014, and 0.04 tons of inorganic solid waste in 2008. The RCRA Non-Generators/No Longer Regulated database listings show that the school is not listed as a handler of nonhazardous or hazardous waste. Based on the database results, neither a release of hazardous materials nor the presence of a naturally occurring hazardous material that would pose a threat to public health or the environment is anticipated. The campus is not on any other state and federal hazardous materials sites. Therefore, the Proposed Project would not create a significant hazard to the public or the environment from being located on a hazardous materials site compiled pursuant to Government Code section 65962.5. Impacts would be **less than significant**.

Impact 5.7-5: Development of the Proposed Project would affect the implementation of an emergency responder or evacuation plan. [Threshold H-6]

During each phase of Project construction, construction vehicles including employees, vendors, and equipment would be traveling to and from the campus. Construction activities may occur during the school year, and therefore all construction staging areas and access locations would be well identified so that access for construction vehicles, as well as emergency responders is maintained. As identified in Section 5.12, Transportation, the campus would continue be accessible to emergency responders including SMFD via Santa Monic Boulevard, Arizona Avenue, Chelsea Avenue and 23rd Court during construction and operation of the proposed project. Project-related increase in traffic within the surrounding roadways would not be sufficient to affect emergency response in the area. To address fire and emergency access needs, the Proposed Project would be required to incorporate all applicable design and safety requirements from the most current adopted fire codes, building codes, and nationally recognized fire and life safety standards of the City of Santa Monica and the SMFD. The Proposed Project would also be subject to review by DSA who oversees design and construction for K-12 schools. The Proposed Project would also be required to comply with all design standards established by DSA including Policy 07-03, "Fire Department and Emergency Access Roadways and School Drop-Off Areas." The purpose of this policy is to establish requirements based on State Fire Marshal Regulations contained in Titles 19 and 24 of the California Code of Regulations, and the California Vehicle Code for fire and emergency access roadways on public school or community college campuses, including fire and emergency access roadways combined with student drop-off and pick-up areas. DSA would review project plans to ensure that plans, specifications, and construction comply with California's building codes (Title 24 of the California Code of Regulations). In addition, the City and the SMFD would be responsible for reviewing the Proposed Project's compliance with related codes and standards prior to issuance of building permits. Therefore, construction and operation of the Proposed Project would not affect the implementation of an emergency responder or evacuation plan, and impacts would be less than significant.

5.7.4 Mitigation Measures

Impacts 5.7-2 and 5.7-3

HAZ-1 Prior to demolition or renovation activities, the existing buildings proposed for demolition or renovation will be inspected by a qualified environmental specialist for the presence of hazardous building materials, including asbestos containing materials asbestos-containing

materials (ACMs), lead-based paints (LBP), and polychlorinated biphenyls (PCBs). If hazardous building materials are detected, abatement and removal of these materials will be conducted in accordance with applicable federal, state, and local guidelines as follows:

- In the event that ACM and LBP are found on the campus, notice shall be provided to South Coast Air Quality Management District (AQMD), and any demolition activities likely to disturb ACM and LBP shall be carried out by a contractor trained and qualified to conduct lead- or asbestos-related construction work in conformance with South Coast AQMD, CalOSHA, Department of Toxic Substances Control (DTSC), and other applicable requirements. If found, ACM and LBP will be disposed of at an appropriately permitted facility.
- If PCBs are found on the campus, these materials shall be managed in accordance with the Metallic Discards Act of 1991 (PRC, sections 42160-42185) and other state and federal guidelines and regulations. Demolition plans and contract specifications will incorporate any necessary abatement measures in compliance with the Metallic Discards Act, particularly section 42175, Materials Requiring Special Handling, for the removal of PCB-containing materials.
- Once hazardous building materials are removed, a follow-up inspection shall be performed of the existing buildings prior to demolition or renovation to confirm that the hazardous items have been removed to an acceptable level per DTSC requirements before commencing with demolition activities.

The District will retain a licensed Professional Geologist, Professional Engineering Geologist, or Professional Engineer with more than 2 years of experience conducting hazardous material and contamination assessments to conduct soil sampling. The soil sampling will be conducted prior to any disturbance of the area(s) suspected of potential contamination to evaluate shallow soil conditions with respect to lead-based paint (LBP) residues from on-site structures built prior to 1990 and chemicals commonly used at drycleaners including chlorinated solvents due to historic uses at nearby properties. If the soil sampling identifies the presence of contaminated soils, the contractor shall prepare and implement a contaminated soils removal action workplan (RAW) for removal of affected soils on-site. Affected soils shall be excavated and disposed of off-campus at a landfill permitted to accept such waste, and the campus shall be cleaned to an acceptable level per DTSC requirements.

After the District confirms that the affected soils have been removed, through the collection of soil samples in the excavation areas, the excavation shall be backfilled and compacted with clean soil, and the contractor will prepare a Completion Report that documents the removal and presents analytical results for the confirmation samples.

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5.7.5 Level of Significance After Mitigation

Mitigation Measures HAZ-1 and HAZ-2 would ensure proper handling of hazardous building materials (e.g., ACMs and LBPs) and potentially contaminated soils during construction to ensure the safety of humans and the environment. The mitigation measures would reduce potential impacts associated with the routine transport, storage, production, use, or disposal of hazardous materials hazards to less than significant. This impact would be reduced to less-than-significant with mitigation.

5.7.6 Cumulative Impacts

The area considered for cumulative impacts is the City of Santa Monica. Hazards and hazardous waste impacts are typically unique to each site and do not usually contribute to cumulative impacts. Cumulative development projects would be required to assess potential hazardous materials impacts on the development site prior to grading. The Proposed Project and cumulative projects would be required to comply with laws and regulations governing hazardous materials and hazardous waters used and generated, as described in Section 5.7.1, Environmental Setting. Therefore, cumulative impacts related to hazards and hazardous materials would be **less** than significant after regulatory compliance.

5.7.7 References

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5. Environmental Analysis

5.8 HYDROLOGY AND WATER QUALITY

This section of the Draft Environmental Impact Report (DEIR) evaluates the McKinley Elementary School (McKinley ES) Campus Master Plan Project's (Proposed Project) potential impacts to hydrology and water quality conditions in the City of Santa Monica. The analysis in this section in based, in part, upon the following technical reports:

- Grading and Drainage Plan, Johnson Favaro Architecture and Urban Design, November 18, 2022.
- Geotechnical Exploration Report: New Classroom Building, McKinley Elementary School, 2401 Santa Monica Boulevard, Santa Monica, Los Angeles County, California, Leighton Consulting, Inc., November 19, 2021.

A complete copy of these technical reports are provided in Appendix H of this DEIR.

The SMMUSD determined that an EIR would be required for this Proposed Project and issued an Initial Study/Notice of Preparation (IS/NOP) on January13, 2023. A California Environmental Quality Act (CEQA) scoping meeting was conducted on January 31, 2023. No comment letters were received in response to the NOP related to hydrology and water quality. The IS/NOP and all scoping comment letters are included as Appendices B and C of this document.

5.8.1 Environmental Setting

5.8.1.1 REGULATORY BACKGROUND

Federal, state, and local laws, regulations, plans, or guidelines related to hydrology and water quality are summarized in this section.

Federal

Clean Water Act

The Clean Water Act (CWA) is a 1977 amendment to the Federal Water Pollution Control Act of 1972. The CWA is the principal statute governing water quality. It establishes the basic structure for regulating discharges of pollutants into the waters of the United States¹ and gives the federal Environmental Protection Agency (EPA) the authority to implement pollution-control programs, such as setting wastewater standards for industry. The statute's goal is to end all discharges entirely and to restore, maintain, and preserve the integrity of the nation's waters. The CWA regulates both the direct and indirect discharge of pollutants into the nation's waters. The CWA sets water quality standards for all contaminants in surface waters and makes it unlawful for any person to discharge any pollutant from a point source into navigable waters, unless a permit is obtained under its provisions. The CWA mandates permits for wastewater and stormwater discharges, requires states to establish site-specific water quality standards for navigable bodies of water, and regulates other activities that affect water quality, such as dredging and the filling of wetlands. The CWA also funded

Waters of the US generally include surface waters—lakes, rivers streams, bays, the ocean, dry streambeds, wetlands—and storm sewers that are tributary to any surface water body.

the construction of sewage treatment plants and recognized the need for planning to address nonpoint sources of pollution. The following CWA Sections assist in ensuring water quality in surrounding water bodies.

- Section 208 of the CWA requires the use of best management practices (BMPs) to control discharge of
 pollutants in stormwater during construction.
- Section 303(d) requires creation of a list of impaired water bodies by states, territories, and authorized tribes; evaluation of lawful activities that may impact impaired water bodies;² and preparation of plans to improve the quality of these water bodies. Water bodies on the list do not meet water quality standards, even after point sources of pollution have installed the minimum required levels of pollution-control technology.
- Section 402(p) establishes a framework to control water pollution by regulating point-source discharges under the National Pollutant Discharge Elimination System (NPDES) permit program. Point-source discharges are readily identifiable, discrete inputs where waste is discharged to the receiving waters from a pipe or drain. Nonpoint discharges occur over a wide area and are associated with particular land uses (such as urban runoff from streets and stormwater from construction sites).

National Pollution Discharge Elimination System

Under the NPDES program (under § 402 of the CWA), all facilities that discharge pollutants from any point source into waters of the U.S. must have a NPDES permit. The term "pollutant" broadly applies to any type of industrial, municipal, and agricultural waste discharged into water. Point sources can be publicly owned treatment works (POTWs), industrial facilities, and urban runoff. The NPDES program addresses certain agricultural activities, but the majority are considered nonpoint sources and are exempt from NPDES regulation. Direct sources discharge directly to receiving waters, and indirect sources discharge to POTWs, which in turn discharge to receiving waters. Under the national program, NPDES permits are issued only for direct, point-source discharges. The NPDES has a variety of measures designed to minimize and reduce pollutant discharges. All counties with storm drain systems that serve a population of 50,000 or more, as well as construction sites one acre or more in size, must file for and obtain an NPDES permit.

State

State Water Resources Control Board

Responsibility for the protection of water quality in California rests with the SWRCB and nine Regional Water Quality Control Boards (RWQCB). The SWRCB establishes statewide policies and regulations for the implementation of water quality control programs mandated by federal and state water quality statutes and regulations. The RWQCBs develop and implement Water Quality Control Plans (Basin Plans) that consider regional beneficial uses, water quality characteristics, and water quality problems. In cases where the Basin Plan does not contain a standard for a particular pollutant, other criteria are used to establish a standard. Other criteria may be applied from SWRCB documents (e.g., the Inland Surface Waters Plan and the Pollutant

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² Impaired water bodies are water bodies that do not meet or are not expected to meet water quality standards.

Policy Document, California Toxics Rule) or from EPA water quality criteria developed under § 304(a) of the CWA. Numeric criteria are required by the CWA for many priority toxic pollutants. To fill in the gap between the water quality control plans and CWA requirements, on May 18, 2000, the EPA promulgated the California Toxics Rule based on the Administrator's determination that numeric criteria are necessary in California to protect human health and the environment. These federal criteria are numeric water quality criteria for priority toxic pollutants and other provisions for water quality standards legally applicable in California for inland surface waters, enclosed bays, and estuaries for all purposes and programs under the CWA.

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act (Water Code §§ 13000 et seq.) is the basic water quality control law for California. Under this Act, the SWRCB has ultimate control over state water rights and water quality policy. In California, the EPA has delegated authority to issue NPDES permits to the SWRCB. The state is divided into nine regions related to water quality and quantity characteristics. The SWRCB, through its nine RWQCBs carries out the regulation, protection, and administration of water quality in each region. Each regional board is required to adopt a Water Quality Control Plan or Basin Plan that recognizes and reflects the regional differences in existing water quality, the beneficial uses of the region's ground and surface water, and local water quality conditions and problems. The Proposed Project's site lies within the jurisdiction of the Los Angeles RWQCB (Region 4).

Waste Discharge Requirements

All dischargers of waste to waters of the state are subject to regulation under the Porter-Cologne Act and the requirement for waste discharge requirements (WDRs) is incorporated into the California Water Code. This includes both point and NPS dischargers. All current and proposed NPS discharges to land must be regulated under WDRs, waivers of WDRs, a basin plan prohibition, or some combination of these administrative tools. Discharges of waste directly to state waters would be subject to an individual or general NPDES permit, which also serves as WDRs. The Proposed Project is subject to the Municipal Stormwater NPDES Permit the Construction General Permit, which both also serve as WDRs.

The RWQCBs have primary responsibility for issuing WDRs. The RWQCBs may issue individual WDRs to cover individual discharges or general WDRs to cover a category of discharges. WDRs may include effluent limitations or other requirements that are designed to implement applicable water quality control plans, including designated beneficial uses and the water quality objectives established to protect those uses and prevent the creation of nuisance conditions. Violations of WDRs may be addressed by issuing Cleanup and Abatement Orders or Cease and Desist Orders, assessing administrative civil liability, or seeking imposition of judicial civil liability or judicial injunctive relief.

Statewide NPDES General Construction Activity Stormwater Permit

Pursuant to the CWA § 402(p) and as related to the goals of the Porter-Cologne Water Quality Control Act, the SWRCB has issued a statewide NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit – Order No. 2022-0057-DWQ, NPDES No. CAS000002) which was adopted September 8, 2022 and becomes effective on September 1,

2023. Every construction project that disturbs one acre or more of land requires coverage under the Construction General Permit (CGP). Construction activities subject to the CGP include clearing, grading, and excavation activities that could result in erosion or siltation impacts. Under the terms of the permit, applicants must file Permit Registration Documents (PRD) with the SWRCB prior to the start of construction. The PRDs include a Notice of Intent, risk assessment, site map, Stormwater Pollution Prevention Plan (SWPPP), annual fee, and a signed certification statement. The PRDs are submitted electronically to the SWRCB via the Stormwater Multiple Application and Report Tracking System (SMARTS) website. Because the Proposed Project would disturb more than one acre, construction of the Proposed Project would be subject to the CGP requirements.

The SWPPP must include applicable best management practices (BMPs) depending upon the project's sediment risk to receiving waters. BMPs are intended to reduce impacts from erosion and siltation to the maximum extent practicable. Additionally, the SWPPP must contain a weekly visual monitoring program and BMP inspections prior to, during, and after qualifying precipitation events. Water quality monitoring is also required with at a schedule that is based on the risk level of the site.

For all sites that are not covered by a Phase I or Phase II MS4 permit, the project must implement post-construction stormwater performance standards as stated in the CGP. This is applicable for all K-12 schools and community colleges, which includes the Proposed Project.

Statewide Trash Amendments

On April 7, 2015, the SWRCB adopted an amendment to the Water Quality Control Plan for Ocean Waters of California to control trash and Part 1, Trash Provisions, of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California. Together, they are collectively referred to as "the Trash Amendments." The Trash Amendments apply to all surface waters of California and include a land-use-based compliance approach to focus trash controls on areas with high trash-generation rates. Areas such as high density residential, industrial, commercial, mixed urban, and public transportation stations are considered priority land uses. The City has incorporated in their Municipal Code that any structural or treatment control BMP used for stormwater mitigation must include a full capture trash system.

Water Conservation in Landscaping Act of 2006

The Water Conservation in Landscaping Act includes the State of California's Model Water Efficient Landscape Ordinance (MWELO), which requires cities and counties to adopt landscape water conservation ordinances. The MWELO was revised in July 2015 via Executive Order B-29-15 to address the ongoing drought and build resiliency for future droughts. State law requires all land use agencies, which includes cities and counties, to adopt a water efficient landscape ordinance that is at least as efficient as the MWELO prepared by the California Department of Water Resources (DWR). The 2015 revisions to the MWELO improve water conservation in the landscaping sector by promoting efficient landscapes in new developments and retrofitted landscapes. The revisions increase water efficiency by requiring more efficient irrigation systems, incentives for grey water usage, improvements in on-site stormwater capture, and limiting the portion of landscapes that can be covered in high-water-use plants and turf. This applies to residential, commercial, industrial, and institutional projects that require a permit, plan check, or design review. The

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previous landscape size threshold for new development projects ranged from 2,500 square feet to 5,000 square feet. The size threshold for rehabilitated landscapes has not changed and remains at 2,500 square feet.

The City of Santa Monica has enacted these provisions in the Santa Monica Municipal Code Article 8, Chapter 8.108, Green Building, Landscape Design, Resource Conservation and Construction and Demolition Waste Management Standards.

Regional

Municipal Stormwater NPDES Permit

Stormwater discharges from the County of Los Angeles are regulated under the Waste Discharge Requirements for Municipal Stormwater and Urban Runoff Discharges within the County of Los Angeles, and Incorporated Cities Therein, Except the City of Long Beach (Order No. R4-2012-0175 and NPDES No. CAS004001), including all subsequent amendments through 2016 issued by the LARWQCB, which also serves as a NPDES permit under the federal CWA. The Permittees are required to effectively prohibit non stormwater discharges into the municipal storm drain system. Additionally, the City of Santa Monica approved a local Low Impact Development Ordinance equivalency that provides equivalent or greater water quality benefits than those derived from the County's NPDES permit requirements (SWRCB 2015).

Although the Proposed Project is in Los Angeles County, all California K-12 school districts and community college districts are not currently subject to the requirements of the MS4 Permit. The SWRCB is in the process of expanding the Phase II Small MS4 permit to include school districts and community colleges. Once the amendment is adopted, school districts and community college districts will have five years to comply with the Phase II Small MS4 permit.

The new permit would require school districts and community college districts to develop a Stormwater Management Plan that includes: 1) a map of storm water drainage on school properties, 2) identifying areas throughout the district that could generate stormwater pollution, 3) training staff on stormwater BMPs, 4) continuing to implement the SWRCB's Construction General Permit, 5) designing and building new construction to meet the permit requirements for stormwater runoff quality and quantity, and 6) documenting activities and submitting an annual report to the SWRCB.

Prior to issuance of the new Phase II MS4 permit, the Proposed Project would be required to comply with the provisions of the SWRCB's post-construction stormwater performance standards. Once the new permit is issued, it is expected that the school districts and community college districts would have to comply with requirements similar to those specified in Section F.5.g—Post Construction Storm Water Management Program—of the existing Phase II MS4 permit. This provision specifies site design and low impact development design standards, source control measures, and sizing criteria for stormwater retention and treatment.

Basin Plan

The LARWQCB implements several federal and state laws, the most important of which are the state Porter-Cologne Act and the federal CWA. The Water Quality Control Plan Los Angeles Region Basin Plan (1995,

and as amended in 2022) was prepared by the LARWQCB to comply with the federal CWA and the state Porter-Cologne Act. The Basin Plan establishes water quality objectives for surface water and groundwater, and implementation programs to meet stated objectives and to protect the beneficial uses of water in the Los Angeles region.

Local

City of Santa Monica Municipal Code

Projects within the City of Santa Monica must also comply with the following requirements of the City's Municipal Code:

- Santa Monica Municipal Code (SMMC) Chapter 7.10 Runoff Conservation and Sustainable Management. Codifies requirements of the County MS4 permit to maximize on-site storage of runoff and use of rainwater and stormwater through a hierarchy of construction and post-construction BMP strategies.
- Section 7.06.450 Water/stormwater runoff mitigation. Requires permittees to prevent non-stormwater discharge construction sites from entering the storm drain system.
- Section 7.10.090(x) Runoff reduction requirements for development. Any structural or treatment control BMP used for rainwater or stormwater mitigation must include a full capture trash system.
- Section 7.10.100 Runoff requirements for construction activity. Requires BMPs for all construction activity in the City unless otherwise specified, including a Stormwater Pollution Prevention Plan (SWPPP) and Erosion and Sediment Control Plan.
- Section 7.16.020 Water conservation requirements. Outlines outdoor watering restrictions to reduce spray and flow to any impermeable surface to limit surface runoff.
- Section 7.56.030 Stormwater management user fees. Fees applied to each parcel in the City for the operation, maintenance, improvement and replacement of the existing storm drainage system, future systems and improving stormwater quality.
- Section 8.108.010 Green Building, Landscape Design, Resource Conservation and Construction and Demolition Waste Management Standards. Outlines green building design, landscape maintenance, and construction and demolition waste management standards and requirements to minimize ecological impact and to protect, preserve and restore local air, water, flora and fauna.
- Section 9.26.070 Water Efficient Landscaping and Irrigation. Specifies landscaping regulations to protect water quality, prevent soil erosion, improve aesthetic appearances and aid in energy conservation. All landscaping shall comply with Chapter 8.108 of the SMMC.

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Santa Monica Groundwater Sustainability Plan

The Santa Monica Groundwater Sustainability Agency (GSA) prepared the Groundwater Sustainability Plan (GSP) for the Santa Monica Groundwater Subbasin. The subbasin, which encompasses the Proposed Project, is designated as a medium priority basin and is not in critical overdraft. The GSP, adopted in January 2022 and currently under DWR review for adequacy, describes groundwater sustainability goals for current and future uses in the subbasin to provide long-term, reliable and efficient groundwater supplies to agricultural, domestic and municipal and industrial uses. The groundwater basin is not adjudicated, and the City of Santa Monica is the only municipality that pumps groundwater from this basin. The GSP provides management criteria to ensure that the sustainable yield of the groundwater basin is not exceeded.

Santa Monica Water Neutrality Ordinance

The City of Santa Monica adopted the Water Neutrality Ordinance in May 2017. The ordinance does not allow new residential or commercial developments to exceed the previous water use for the site, based on a five-year historic average. The means to achieve water net neutrality is through two options: 1) the installation of water-efficient fixtures and landscaping at the proposed development site or 2) payment an in-lieu fee, which funds the City's Water Neutrality Direct Install Program. The City has prepared water neutrality calculators, based on the type of new development or redevelopment, which must be submitted to the City with the project application. The City will provide the baseline 5-year historic water demand for the project's parcel to assist in calculating the existing and proposed water demand.

Santa Monica Efficient Landscape and Irrigation Standards

The City has developed a document entitled Water Efficient Landscape and Irrigation Standards to assist project developers in meeting the City's Green Building Ordinance (SMMC 8.108). The document dated October 2016 details the design, installation, and maintenance requirements of landscape and irrigation systems in the City of Santa Monica. Prior to the issuance of a building permit, project applicants must submit landscape documentation, including a landscape planting plan with details and specifications, landscape water demand calculations, and a landscape plan submittal verification sheet. If a new irrigation system is part of the project, than an irrigation plan with details and specifications and an irrigation plan submittal verification sheet must also be submitted. The City provides landscape water demand calculators and guidelines for complying with the standards on their website through the Office of Sustainability and the Environment.

5.8.1.2 EXISTING CONDITIONS

Regional and Local Drainage

The Proposed Project's Site is in the Santa Monica Bay Watershed and more specifically in the Garapito Creek-Frontal Santa Monica Bay subwatershed. The Santa Monica Bay Watershed Management Area (WMA) encompasses an area of 414 square miles. It extends from the crest of the Santa Monica Mountains on the north, and from the Ventura-Los Angeles County line to the west, downtown Los Angeles to the east, and the Pacific Ocean to the south. The smaller Garapito Creek-Frontal Santa Monica Bay subwatershed extends

from the Santa Monica Mountains to the north, Malibu Beach to the west, Westwood and Marina del Rey to the east, and the Pacific Ocean to the south.

The Project Project's Site is currently developed with hardscape and impervious surfaces encompassing the school buildings and parking lots; the pervious areas include landscaping and play fields. The topography in the Proposed Project's area is relatively flat with gentle slopes to the south. Currently, runoff is collected via swales and storm drain inlets and conveyed by an internal storm drain system that connects to the City's existing storm drains beneath Chelsea Avenue and Santa Monica Boulevard.

Surface Water Quality

Though relatively small in size compared with watersheds in other parts of California, the Santa Monica Bay Watershed is composed of highly variable geologic and hydrologic characteristics, habitat features, and human activities. According to the Los Angeles RWQCB, the existing beneficial uses at Santa Monica Bay include water contact and noncontact water recreation; commercial and sport fishing; wildlife habitat; marine habitat; and shellfish harvesting. Fish spawning is also a potential beneficial use (SWRCB 2020).

In addition to the establishment of beneficial uses and water quality objectives, another approach to improving water quality is a watershed-based methodology that focuses on all potential pollution sources and not just those associated with point sources. If a body of water does not meet established water quality standards under traditional point source controls, then it is listed as an impaired water body under Section 303(d) of the CWA. For 303(d) listed water bodies, a limit is established, which defines the maximum amount of pollutants (or total maximum daily load [TMDL]) that can be received by that water body.

The major sources of pollutants in Santa Monica Bay are the three publicly owned treatment works (POTWs). Pollutants from other NPDES discharges have been estimated to contribute less than 2 percent of the total pollutants being discharged to the Bay (SWRCB 2018a). A considerable number of monitoring programs have been implemented in the Santa Monica Bay Watershed. Four statewide monitoring programs—State Mussel Watch, Bay Protection and Toxic Cleanup, Coastal Fish Contamination Program, and Toxic Substances Monitoring—have focused on biological measurements as well. More recently, the state's Surface Water Ambient Monitoring Program has also collected chemical and biological data.

Santa Monica Bay Offshore/Nearshore is listed as a listed impaired water body and the pollutants of concern include dichlorodiphenyltrichloroethane (DDT), polychlorinated biphenyls (PCBs), mercury, arsenic, and trash (SWRCB 2018b).

Groundwater and Groundwater Quality

The Proposed Project's Site is within the Santa Monica Groundwater Subbasin. The City of Santa Monica supplies potable water through a combination of local groundwater (approximately 60-70 percent of the total water supply) and imported water from the Metropolitan Water District (MWD), which accounts for approximately 30-40 percent of the total water supply (City of Santa Monica 2021).

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The Geotechnical Exploration report found that groundwater was not encountered to the maximum drilled depth of approximately 51.5 feet below ground service (bgs) (Leighton 2021). The historic depth of groundwater is documented at depths ranging from 110 to 132 feet bgs (Leighton 2021).

The listed beneficial uses of local groundwater are for municipal and domestic supplies, industrial process supply and service supply, and agricultural supply (SWRCB 2020). Although the groundwater subbasin has been affected by releases of chlorinated solvents and other chemicals, such as trichloroethylene (TCE), tetrachloroethylene (PCE), methyl tertiary butyl ether (MTBE), the City treats pumped groundwater at the Charnock Water Treatment Facility and blends the treated water with non-contaminated groundwater to achieve the water quality objectives set in the Basin Plan (City of Santa Monica 2021).

Flooding

As discussed in the Initial Study (see Appendix B of this DEIR), the campus is not within a flood zone identified by Federal Emergency Management Act (FEMA), is not within a dam inundation area and there are no nearby aboveground water storage tanks that could cause flooding in the unlikely event of a tank failure (FEMA 2021; DSOD 2022).

5.8.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would:

- HYD-1 Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality.
- HYD-2 Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin.
- HYD-3 Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
 - iv) Result in a substantial erosion or siltation on- or off-site.
 - ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite.
 - iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.
 - iv) Impede or redirect flood flows.
- HYD-4 In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation.

HYD-5 Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

The Initial Study, included as Appendix B, substantiates that impacts associated with the following thresholds would be less than significant:

- Threshold HYD-3(i) through 3(iv)
- Threshold HYD-4
- Threshold HYD-5

These impacts will not be further addressed in this DEIR.

5.8.3 Environmental Impacts

5.8.3.1 IMPACT ANALYSIS

The following impact analysis addresses thresholds of significance for which the Initial Study/Notice of Preparation disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.8-1: The Proposed Project would not violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality. [Threshold HYD-1]

Urban runoff from storms or nuisance flows (runoff during dry periods) from development projects can carry pollutants to receiving waters. Runoff can contain pollutants such as oil, fertilizers, pesticides, trash, and sediment. This runoff can flow directly into local streams or into storm drains and continue through pipes until it is released untreated into a local waterway and eventually the ocean. Untreated stormwater runoff degrades water quality in surface waters and groundwater and can affect drinking water, human health, and plant and animal habitats.

The construction and operational phases of the Proposed Project could have the potential to impact water quality. Construction activities may impact water quality due to the erosion of exposed soils. During the operational phase of the Proposed Project, erosion potential would decrease but impacts from urban runoff would increase. The following is a discussion of the potential impacts that the construction and operational phases of the Proposed Project could have on water resources and quality.

Project Construction

Clearing, grading, excavation, and construction activities associated with the Proposed Project may impact water quality through soil erosion and increasing the amount of silt and debris carried in runoff. Additionally, the use of construction materials such as fuels, solvents, and paints may present a risk to surface water quality.

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Finally, the refueling and parking of construction vehicles and other equipment on-site during construction may result in oil, grease, or related pollutant leaks and spills that may discharge into the storm drain system.

To minimize these potential impacts, the Proposed Project would be required to comply with the Construction General NPDES Permit as well as prepare a Stormwater Pollution Prevention Plan (SWPPP) that requires the incorporation of BMPs to control sedimentation, erosion, and hazardous materials contamination of runoff during construction. The SWRCB mandates that projects that disturb one or more acres of land must obtain coverage under the Construction General NPDES Permit. The Construction General NPDES Permit also requires that prior to the start of construction activities, the project applicant must file PRDs with the SWRCB, which includes a Notice of Intent, risk assessment, site map, annual fee, signed certification statement, SWPPP, and post-construction water balance calculations. The construction contractor is required to always maintain a copy of the SWPPP on-site and implement all construction BMPs identified in the SWPPP during construction activities. Prior to the issuance of a grading permit, the project applicant is required to provide proof of filing of the PRDs with the SWRCB.

The SWPPP must describe construction BMPs that address pollutant source reduction and provide measures/controls to mitigate potential pollutant sources. These include, but are not limited to:

- Erosion controls (e.g., earth dikes and swales, mulching, slope drains, compost blankets)
- Sediment controls (e.g., silt fence, sediment trap, sandbag or straw bale barriers)
- Tracking controls (e.g., stabilized construction entrance/exit, tire wash)
- Non-storm water management (e.g., dewatering practices, vehicle and equipment cleaning)
- Materials and waste management (e.g., material storage, hazardous waste management, soil management)
- Good housekeeping practices.

Submittal of the PRDs and implementation of the SWPPP and its associated BMPs throughout the construction phase of the Proposed Project will address anticipated and expected pollutants of concern due to construction activities. The Proposed Project would comply with all applicable water quality standards and waste discharge requirements. Therefore, the construction of the Proposed Project would not violate water quality standards or waste discharge requirements and would not otherwise substantially degrade water quality, resulting in a **less than significant impact**.

Project Operation

Once the Proposed Project has been constructed, urban runoff could include a variety of contaminants that could impact water quality. Runoff from buildings and parking lots typically contain oils, grease, fuel, antifreeze, byproducts of combustion (such as lead, cadmium, nickel, and other metals), as well as fertilizers, herbicides, pesticides, and other pollutants. Precipitation at the beginning of the rainy season may result in an initial stormwater runoff (first flush) with high pollutant concentrations.

The District is not regulated under the Los Angeles County MS4 permit and the Phase II Small MS4 permit for K-12 school districts and community colleges has not yet been issued by the SWRCB. In the interim, the District is required to comply with the post-construction performance standards under the Construction General NPDES Permit. The performance standards specify runoff reduction requirements for all sites not covered by Phase I or Phase II MS4 permits to minimize and mitigate stormwater runoff impacts. The following is a discussion of site-design, source-control, and treatment-control BMPs that would be incorporated into the Proposed Project.

Site Design BMPs

Site design BMPs would be incorporated into the Proposed Project's design to reduce the potential impacts on surface and groundwater quality. These include:

- Incorporate earthen swales, planters, and landscaping to mitigate urban heat island impacts.
- Include mostly native plants and drought-tolerant plants in landscaping plans.
- Use effective irrigation systems to minimize outdoor water usage, such as the proposed stormwater capture and reuse system which would collect and store runoff for site irrigation purposes.

Source Control BMPs

Source control BMPs effectively minimize the potential for typical urban pollutants to contact stormwater, thereby limiting water quality impacts downstream. A variety of source control BMPs would be incorporated into the Proposed Project and implemented throughout the operation of the campus, including the following:

- Educational materials related to urban runoff provided to all employees, students, and staff.
- Inspection and maintenance of site BMPs—catch basins, grate inlets, etc.
- Compliance with the City of Santa Monica Municipal Code and Uniform Fire Code.
- Providing storm drain stenciling or signage on all storm drain inlets and catch basins.
- Properly designing and inspecting on a regular basis all trash storage areas, loading docks, outdoor storage areas, and outdoor work areas.

Treatment Control BMPs

Treatment control BMPs (single or in combination) remove anticipated pollutants of concern from on-site runoff. Additionally, low impact design (LID) features are proposed for the Proposed Project to avoid and/or minimize impacts to hydrology and water quality. The proposed LID features for the Proposed Project includes earthen swales, flow-through planters, and landscaped areas which would collect and treat runoff. The LID features would connect to the existing storm drain system at the school and are designed to detain peak flows for the 85th percentile storm event prior to discharge into the City's storm drain system. The

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maintenance requirements, inspection schedule, and staff responsibilities for maintaining the stormwater treatment systems would be provided by the District.

Furthermore, as part of the statewide mandate to reduce trash in receiving waters, the District would adhere to the requirements of the City of Santa Monica Municipal Code, which include the installation and maintenance of full-capture trash screening devices at curb inlets, grate inlets, and catch basin inlets. The trash screening devices must be certified by the SWRCB. With the implementation of the BMP features described above, as well as compliance with State, County, and local regulations and code requirements, the Proposed Project would have a **less than significant impact** on surface or groundwater quality during the operational phase.

Impact 5.8-2: The Proposed Project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Proposed Project may impede sustainable groundwater management of the basin. [Threshold HYD-2]

The City of Santa Monica supplies potable water through a combination of local groundwater (approximately 60-70 percent of the total water supply) and imported water from the Metropolitan Water District (MWD), which accounts for approximately 30-40 percent of total water supply (City of Santa Monica 2021). As described in Chapter 3, *Project Description*, the Proposed Project would not change current enrollment or staffing. Therefore, overall water demand is not expected to increase (and could in fact decrease with new fixtures and irrigation), there would be no impact on groundwater supplies.

The Proposed Project's Site is already built out with hardscape and impervious surfaces, and implementation of the Proposed Project would not substantially increase the amount of impervious surfaces on the Proposed Project's Site. Runoff at the existing school is currently collected via swales and storm drain inlets and conveyed by an internal storm drain system that connects to the City's existing storm drains beneath Chelsea Avenue and Santa Monica Boulevard. The Proposed Project's LID features include earthen swales, flow-through planters, and landscaped areas which would collect the stormwater runoff before discharge to the existing City storm drain system. Therefore, the Proposed Project would not interfere with groundwater recharge.

Additionally, it is unlikely that groundwater would be encountered during construction that would require dewatering, since groundwater was not encountered in borings or cone penetrometer tests (CPTs) drilled to a maximum depth of approximately 51.5 feet bgs (Leighton Consulting 2021). The historic depth of groundwater is documented at depths ranging from 110 to 132 feet bgs (Leighton, 2021). Therefore, construction dewatering would not be necessary and would not impact groundwater recharge.

The Proposed Project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge during operation or construction, and impacts would be **less-than-significant**.

5.8.4 Mitigation Measures

No mitigation measures are required.

5.8.5 Level of Significance After Mitigation

All impacts are **less than significant**.

5.8.6 Cumulative Impacts

The area considered for cumulative hydrology, drainage, and flood hazard impacts is the Santa Monica Bay Watershed. New projects in the area, both individually and cumulatively, could increase the impervious surface areas, increase the volume of stormwater runoff, and contribute to pollutant loading in the storm drain system with discharge to creeks and ultimately to the Pacific Ocean. However, as with the Proposed Project, future projects within the City of Santa Monica and Los Angeles County would be required to comply with drainage and grading regulations and ordinances that control runoff and regulate water quality at each development site. New development and redevelopment projects would be required to demonstrate that stormwater volumes could be managed by on-site and downstream conveyance facilities and would not induce flooding. New projects also would be required to comply with local, state, and federal regulating stormwater discharge during construction (such as a Construction SWPPP) and operation (such as a WQMP) and water quality.

The projects would be subject to review and approval by the appropriate City or the County to ensure that appropriate BMPs and treatment measures are implemented to reduce pollutants in stormwater and avoid adverse impacts to surface water quality. New development and certain redevelopment projects are required to retain and treat a specified volume of stormwater runoff on-site through incorporation of BMPs so that stormwater volumes. As described above, with the implementation of the BMPs, the Proposed Project would not substantially increase the amount of stormwater runoff and pollutants currently entering the storm drain system from this Proposed Project's Site under existing baseline conditions with the implementation of required BMPs and stormwater treatment measures.

The implementation of related cumulative projects would result in an increase in water use that could result in an increase in groundwater extraction to serve the cumulative projects. In addition, impervious surfaces associated with the cumulative projects could alter the existing infiltration of stormwater to recharge groundwater supplies. There is a possibility that the implementation of the cumulative development could significantly increase the use of groundwater supplies and could affect the existing stormwater infiltration to recharge groundwater supplies. Therefore, cumulative development could result in significant cumulative impacts to groundwater supplies.

As described above, the proposed project would not increase groundwater basin water demand to supply the campus; therefore, the Proposed Project would not contribute to substantial decrease in groundwater levels, and the proposed project would not substantially deplete groundwater supplies. The Proposed Project would not significantly increase impermeable surfaces. As a result, the proposed project would result in a less than cumulatively considerable impact on the use of groundwater supplies and stormwater infiltration to recharge groundwater supplies.

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5.8.7 References

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5.9 LAND USE AND PLANNING

This section of the Draft Environmental Impact Report (DEIR) evaluates the potential impacts to land use from implementation of the McKinley Elementary School Campus Master Plan (Proposed Project).

Land use impacts can be either direct or indirect. Direct impacts are those that result in land use incompatibilities, division of neighborhoods or communities, or interference with other land use plans adopted for the purpose of avoiding or mitigating an environmental effect. This section focuses on direct land use impacts. Indirect impacts are secondary effects resulting from land use policy implementation, such as an increase in demand for public utilities or services, or increased traffic on roadways. Indirect impacts are addressed in other sections of this DEIR.

The Santa Monica–Malibu Unified School District (SMMUSD or District) determined that an EIR would be required for this Proposed Project and issued an Initial Study/Notice of Preparation (IS/NOP) on January 13, 2023. A California Environmental Quality Act (CEQA) scoping meeting was conducted on January 31, 2023 where verbal comments were received in response to the Initial Study/Notice of Preparation (IS/NOP) regarding the Proposed Project's compatibility with the existing uses in the neighborhood and impacts to the community character that would result from the Proposed Project. In addition, written comments were received regarding the potential impacts to community character in areas surrounding the McKinley Elementary School (McKinley ES) campus. The IS/NOP and all scoping comment letters are included as Appendices B and C of this document.

5.9.1 Environmental Setting

5.9.1.1 REGULATORY BACKGROUND

State, and local laws, regulations, plans, or guidelines related to land use and planning that are applicable to the Proposed Project are summarized below.

Local

City of Santa Monica General Plan

The City of Santa Monica General Plan provides direction for the city's growth and development. As a policy document, the General Plan serves as a guide to the adoption of laws necessary to execute its intent. Santa Monica's General Plan consists of the following elements: 1) Land Use and Circulation, 2) Conservation, 3) Housing, 4) Open Space, 5) Noise, and 6) Safety. The elements and associated goals and policies most applicable to the Proposed Project include the Land Use and Circulation element, which is discussed below and in Section 5.12, *Transportation*; the Open Space element, which is further discussed in Section 5.11, Recreation, and the Noise Element, which is further discussed in Section 5.10, Noise.

Land Use and Circulation Element

The City of Santa Monica Land Use and Circulation Element (LUCE) was adopted July 6, 2010, and revised July 24, 2015. The LUCE establishes the City's land use, urban design, and transportation vision. The following

goals and policies related to community character and aesthetics are applicable to the entire city and relevant to the Proposed Project (City of Santa Monica 2015).

General: Citywide Land Use Policies

- Policy LU1.5. Design Compatibility. Require that new infill development be compatible with the existing scale, mass and character of the residential neighborhood. New buildings should transition in size, height and scale toward adjacent residential structures.
- Policy LU3.3. Focus on Local-Serving Uses. Emphasize uses which address local-serving needs and daily resources necessary to reduce vehicle trips and vehicle miles traveled.

Goal LU4. Complete Sustainable Neighborhoods: Create complete neighborhoods that exemplify sustainable living practices with open spaces, green connections, diverse housing, local employment, and local-serving businesses that meet the daily needs of residents and reduce vehicle trips and GHG emissions.

- Policy LU4.1. Active Centers. Create active neighborhood districts that cluster services, goods, and cultural and recreational uses within walking distance of residences to create a focus for community activity and an active environment that can sustain local uses.
- Policy LU4.2. Uses to Meet Daily Needs. Encourage uses that meet daily needs such as grocery stores, local-serving restaurants and other businesses and activities within walking distance of residences to reduce the frequency and length of vehicle trips.
- Policy LU10.2. Benefits Tied to Community Values. Require new development that requests height above the base to provide measurable benefits to foster complete neighborhoods and support the goals of the LUCE, including reducing vehicle trips and GHG emissions, maintaining diversity, and promoting affordable and workforce housing.
- Policy LU10.4. Discretionary Review. Require a discretionary review process with community input for projects above the base height except for 100 percent affordable housing projects. Inclusion of community benefits and specific findings will be required for conditional approval above the base height and density.
- Policy LU13.1. Maintain Character. Reinforce the City's distinctive natural, social, and environmental
 characteristics including its beachfront and connections to the water, civic and cultural institutions, terrain
 and climate, and the geographic fabric of neighborhoods and boulevards.

Goal LU15. Enhance Santa Monica's Urban Form: Encourage well-developed design that is compatible with the neighborhoods, responds to the surrounding context, and creates a comfortable pedestrian environment.

 Policy LU15.3. Context-Sensitive Design. Require site and building design that is context sensitive and contributes to the City's rich urban character.

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- Policy LU15.8. Building Articulation. Building façades should be well designed with appropriate articulation in the form of setbacks, offsets, projections and a mix of architectural materials and elements to establish an aesthetically pleasing pattern. Large areas of glass above the ground floor require special design consideration. Highly reflective materials are to be avoided, and dark or reflective glass is prohibited.
- Policy LU15.10. Roofline Variation. Buildings should be designed with a variety of heights and shapes to create visual interest while maintaining a generally consistent overall street front. To achieve this goal, development standards should provide flexibility to encourage buildings with interesting silhouettes and skylines, and the primary building façade shall not be lower than the designated minimum street façade height.

Neighborhoods: Citywide Goals and Policies

- Policy N1.2. Encourage enhancement of neighborhood services to achieve the goal of creating complete neighborhoods containing an optimal array of local-serving retail and services within walking distance and fostering new local-serving retail and services in areas currently lacking them.
- Policy N1.7. Make new development projects of compatible scale and character with the existing neighborhoods, providing respectful transitions to existing homes, including ground level open spaces and appropriate building setbacks and upper-floor step backs along neighborhood streets.

Goal N3: Locate services and amenities within walking distance of neighborhoods.

Goal N4: Ensure compatible design to preserve and enhance neighborhoods.

- Policy N4.1. Design new development to be compatible with the existing scale, mass and character of the
 residential neighborhood. New buildings should transition in size, height and scale toward adjacent
 residential structures.
- Policy N4.4. Design new development or redeveloped structures in such a manner as to minimize impacts on or disruptions to neighbors.

Mid-City Neighborhood

McKinley ES is in the Mid-City neighborhood of Santa Monica. The following goals and policies related to land use and planning are specific to the Mid-City neighborhood and applicable to the Proposed Project (City of Santa Monica 2015).

Goal N23: Protect, preserve and enhance the Mid-City residential neighborhood and ensure compatible design.

Open Space Element

The City of Santa Monica Open Space Element was adopted March 1997. The Open Space Element establishes the long-range vision for the future development of parks and open spaces in Santa Monica (Santa Monica 1997). The following objectives and policies related to parks and recreational facilities are relevant to the entire city and Proposed Project.

Objective 1: Develop and maintain a diversified and balanced system of high-quality open space.

- **Policy 1.1.** Preserve existing public open space.
- Policy 1.2. Provide opportunities for the enjoyment of open space within every Santa Monica Neighborhood.

Objective 2: Expand the open space through use of public properties.

- Policy 2.2. Expand open space tole through shared use of certain facilities.
- Policy 2.3. Improve school sites as public open space.

Noise Element

The Noise Element provides guidance for comprehensive local programs to control and abate excessive noise and to protect residents from adverse noise impacts. The element provides information on the existing and projected noise environment and includes goals, objectives, policies, and implementation programs to ensure an acceptable noise environment. The element also identifies criteria to be used by decision makers in evaluating the noise implications of proposed projects.

The City of Santa Monica has adopted policies in support of Goal N-1, reducing noise where unacceptable to acceptable noise levels; Goal N-2, protect and maintain those areas having acceptable noise environments; and Goal N-3, provide sufficient information concerning the community noise levels so that noise can be objectively considered in land use planning decisions. The following policies are relative to the Proposed Project:

- **Policy 2.** Incorporate noise considerations into land use planning decisions (as they apply to finished projects, not construction actions). These measures will be achieved through the following programs:
 - Ensure acceptable noise levels near schools, hospitals, convalescent homes, and other noise sensitive area.
 - Encourage acoustical mitigation design in new construction.
- Policy 3. Develop measures to control non-transportation noise impacts.
 - Improve enforcement of required noise mitigation measures in building design.
- Policy 4. The City shall develop measures to control construction noise impacts. The following shall be considered:
 - Clearly state the permitted hours of construction and expressly prohibit construction on Sunday.
 - Consider exempting the resident/builders in single family zones from the Sunday construction and maintenance ban provided such construction is limited to the hours specified in the Noise Ordinance or meets the noise limits set in the Noise Ordinance.

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- During the environmental review of all projects, determine the proximity of the site to the established residential areas. If the project will involve pile driving, night time truck hauling, blasting, 24-hour pumping, or any other very high noise equipment, the environmental review shall include a construction noise alternative analysis. From this analysis specific mitigation measures shall be developed to mitigate potential noise impacts. This may include but not be limited to:
 - Requirements to use quieter albeit costlier construction techniques.
 - Notification of residences (homeowner and renters) of time, duration, and location of construction
 - Relocation of residents to hotels during noisy construction period.
 - Developer reimbursement to City for 24-hour on-site inspection to verify compliance with required mitigation.
 - Limit hours of operation equipment 15 dB above the noise ordinance to the hours of 10:00 AM to 4:00 PM.
- The selection of the above measures should be determined on a project-by-project bases depending on type of equipment used and the proximity to established residential areas.

City of Santa Monica Municipal Code

The City's Municipal Code (SMMC) establishes land use regulations and standards for development in the City, including zoning, height limits, building density, building design and landscaping standards, architectural features, and open space and setback requirements.

Chapter 9.15 Public and Semi-Public Districts

The PL Institutional/Public Lands zoning district is for public or semipublic facilities, including municipal offices, schools, libraries, museums or performance spaces, cemeteries, corporation yards, utility stations, and similar uses. This district is consistent with the LUCE's Institutional/Public Lands land use designation. SMMC Table 9.15.030, *Development Standards*, *Public and Park Districts*, stipulates the development standards for the Public and Semi-Public Districts.

Table 9.15.030 Development Standards – Public and Park Districts

Table of the total british of an article and Tark Diethote		
Standard	PL (Institution/Public Lands)	
Parcel Intens	ity Standards	
Minimum Parcel Size 20,000 square feet		
Building Form and Location		
Maximum Building Stories	2	
Maximum Building Height	32 feet	
Minimum Setbacks (feet, measures from property line)		
Street Frontage	10 feet	
Interior Side and Rear	10 feet; 15 feet when abutting a residential district	
Maximum Parcel Coverage (% of a parcel)	N/A	

Table 9.15.030 Development Standards – Public and Park Districts

Table 9.15.030	Development Standards – Public and P	
	Standard	PL (Institution/Public Lands)
	Additiona	I Standards
Fences and Walls		 Maximum Height – Front Setbacks: a. Hedges, fences and walls: 42 inches in height. b. One pergola or similar feature: 8 feet in height and width and 3 feet in depth. Gates or doors are permitted within the frame of pergolas or similar features. c. Ornamental attachments atop a fence or wall: 12 inches above the maximum height limit with a maximum width of 12 inches for each attachment and a minimum distance of 5 feet between each attachment. d. A guardrail may exceed the maximum height limit for a fence or wall, but only to the minimum extent required for safety by the Building Code. Safety guardrails must be at least 50 percent visually transparent above the fence or wall height limit.
		 Maximum Heigh – Side and Rear Setbacks: a. Fences and walls: 8 feet. b. Hedges: 12 feet, except that there is no height limit for hedges adjacent to and located within 10 feet of an alley, measured perpendicularly from the side or rear property line that is adjacent to the alley. c. A guardrail may exceed the maximum height limit for a fence, but only to the minimum extent required for safety by the Building Code. Safety guardrails must be at least 50% visually transparent above fence height limit.
Landscaping		Dimension of Landscaped Areas. No landscaped area smaller than 2 feet wide in any horizontal dimension shall count toward required landscaping.
Lighting		 Residential Multiple-Unit Buildings. Aisles, passageways, and recesses related to and within the building complex shall be illuminated with an intensity of at least 0.25 foot-candles at the ground level during the hours of darkness. Lighting devices shall be protected by weather and vandal-resistant covers. Nonresidential Buildings. All exterior doors, during the hours of darkness, shall be illuminated with a minimum of one foot-light candle of light. Shielding. All lighting fixtures shall be shielded so as not to produce obtrusive glare onto the public right-of-way or adjacent properties. All luminaries shall meet the most recently adopted criteria of the Illuminating Engineering Society of North America (IESNA) for "Cut Off" or "Full Cut Off" luminaries. Light Trespass. Lighting may not illuminate other properties in excess of a measurement of 0.5 foot candles of light. Maximum Height. The maximum height for exterior lighting shall be as follows: Residential, Ocean Park Oceanfront Districts: 16 feet.
		feet. b. Nonresidential Districts: 26 feet.

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Table 9.15.030 Development Standards – Public and Park Districts

Table 9.15.030	Development Standards – Public and Standard	PL (Institution/Public Lands)
Off-Street Parking at		Maximum Parking Requirements. The maximum number of parking spaces allowed shall be based on use type as listed in the table in Section 9.28.060, Off-Street Parking. The following rules apply when calculating maximum parking requirements: b. Maximum Amount of Parking. The maximum allowable amount of parking shall be 2 spaces or 5%, more, whichever is greater, than the quantities specified in Section 9.28.060, except for permanent public parking. No additional parking is allowed in excess of the quantities specified in Section 9.28.060 for the Downtown Community Plan area. In order to obtain approval for permanent public parking in excess of these maximum allowable amounts, a Conditional Use Permit
		approved by the Planning Commission shall be required pursuant to Chapter 9.41, subject to the following additional required findings: i. Parking provided in excess improves the pedestrian, transit, and bicycle network; ii. Vehicle movement on or around the project site associated with the excess parking does not unduly impact pedestrian spaces or movement, transit service, bicycle movement, or the overall traffic movement in the district; iii. Accommodating excess parking does not degrade the overall urban design quality of the project proposal; iv. All above-grade parking is architecturally screened and the excess parking does not diminish the quality and viability of existing or planned landscape enhancements; and v. Where off-street parking is proposed that exceeds the maximum quantities specified, such parking shall not be the principal use of the property. c. Replacement of Existing Parking. If a site contains existing surface parking that serves as Code or permit-required parking for an off-site user, such parking spaces may be replaced onsite as part of any redevelopment of the site, and such replacement parking shall not be considered parking that exceeds the quantities specified in Section 9.28.060 for
Signs		purposes of subsection (A)(5)(b). Marquee Signs. Marquee signs that do not extend more than 12 inches from the surface of the marquee, nor provide less than 8 feet of clearance above ground level are permitted.
		Wall Signs. Wall signs so long as the display surface of the sign does not extend more than 12 inches from the wall, is parallel with the wall, does not project above the top of the wall or parapet or more than 30 inches above the second-floor floor line in multistoried buildings, and does not contain copy or lighting on any surface parallel with the wall other than the sign face. A wall sign may be located on the sloping surface of a roof, with no air space between the roof and the sign, but may not project above the high point of the roof or be more than 12 inches in depth. The letter height of a wall sign located 25 feet from the property line in a single tenant building shall not exceed 30 inches.

Table 9.15.030 Development Standards – Public and Park Districts

Standard		PL (Institution/Public Lands)
Screening		 Location. Screening walls shall follow the parcel line of the parcel to be screened, or shall be so arranged within the boundaries of the parcel so as to substantially hide from adjoining properties the building, facility, or activity required to be screened.
		 Materials. Industrial uses must provide a solid screening wall of stucco, decorative block, or concrete panel. Screening wall for other uses may be constructed of stucco, decorative block, concrete panel, wood or other substantially equivalent material. Chain-link fencing does not fulfill the screening wall requirement.
		3. Maintenance. Screening walls shall be maintained in good repair, including painting, if required, and shall be kept free of litter or advertising. Where hedges are used as screening, trimming or pruning shall be employed as necessary to maintain the maximum allowed height.

In addition, pursuant to Chapter 9.15, Public and Semi-Public Districts (A), the following landscaping requirements apply:

- 1. Setback Areas Adjoining Streets. All visible portions of a required setback area adjoining a street that are not used for driveways or walks shall consist of planting areas, landscape, or pedestrian amenities.
- 2. Interior Setback Areas. At least 50% of each required interior side setback area and rear setback area shall be planting area having a minimum width of 7.5 feet adjoining a side or rear parcel line. The width of a required planting area may be reduced to 3 feet in one side or rear setback areas adjoining a driveway, and a nonresidential accessory structure may occupy a portion of the planting area in a rear setback area. (Added by Ord. No. 2486CCS §§ 1, 2, adopted June 23, 2015; amended by Ord. No. 2520CCS § 17, adopted June 14, 2016; Ord. No. 2649CCS § 21, adopted September 8, 2020).

Chapter 9.21 General Site Regulations

Chapter 9.21, General Site Regulations, applies development and site regulations, except where specifically stated, to development in all Districts. These standards are used in conjunction with the standards for each Zoning District located in Division 2, Base and Overlay Districts. Specifically, SMMC Section 9.21.080, Lighting, and Section 9.21.120, Reflective Materials, are applicable to the Proposed Project with respect to light and glare, as further discussed in Section 5.1, *Aesthetics*.

Chapter 9.28 Parking, Loading, and Circulation

Chapter 9.28 of the SMMC ensures that on-site parking and loading areas are designed and located to protect public safety; minimize congestion and conflict points on travel aisles and public streets; and, where appropriate, buffer surrounding land uses from their impact.

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Chapter 9.55 Architectural Review

Chapter 9.55, Architectural Review, promotes the public health, safety, and general welfare by establishing procedures and regulations deemed necessary to preserve existing areas of natural beauty and cultural importance and to ensure that buildings, structures, signs, or other developments are well designed, harmonious with surrounding developments, and contribute to the preservation of Santa Monica's beauty, spaciousness, and quality. Additionally, Chapter 9.55 helps prevent the development of structures or uses that are not of acceptable exterior design or appearance or are of inferior quality within the local environment or surrounding area by reason of appearance or value; eliminates conditions, structures, or uses that have the potential to degrade the health, safety, or general welfare of the community; and provides a continuing source of programs and means of improving the City's overall appearance.

Chapter 9.67 Parks and Recreation Development Impact Fee Program

This chapter of the SMMC implements the goals, objectives, and policies of the Open Space Element and the Parks and Recreation Master Plan when new development is constructed within the city limits. Imposing a fee that is reasonably related to the burdens on and increased demand for the City's parks and recreation facilities created by new development will assist the City to construct the required capital improvements to support the fulfillment of these goals, objectives, and policies.

Chapter 4.12 Noise

As further discussed in Section 5.10, *Noise*, of this EIR, the City of Santa Monica has established exterior noise standards to limit excessive noise from stationary sources. These standards are found in the SMMC in Section 4.12.060, Exterior Noise Standards, of the SMMC. Also applicable to the Proposed Project with respect to noise and vibration are SMMC Section 4.12.110, Restrictions on demolition, excavation, grading, spray painting, construction, maintenance or repair of buildings; Section 4.12.120, Postage of Construction Signage; Section 4.12.030, Exemptions; Section 4.12.130, Location, Screening and Noise Measurements of Mechanical Equipment; and Section 4.12.070, Vibration.

5.9.1.2 EXISTING CONDITIONS

Assessor's Parcel Number 4276-023-900 consists of a 6.48-acre rectangular parcel that includes the existing campus and is entirely owned by the District. As shown in Figure 3-2, *Aerial Photograph*, McKinley ES is in an urban area surrounded by residential, commercial, and institutional uses.

Originally built in 1922, McKinley ES serves students in preschool, transitional kindergarten, kindergarten, and grades one through five. As shown in Table 5.9-1, *Characteristics of Existing Buildings*, the campus includes three permanent buildings, identified as Buildings A through C; 11 portable classrooms and 1 modular classroom building, Building D; recreational portable, fields and playgrounds; a student garden; and a parking lot along Chelsea Avenue (see Table 3-1, *Characteristics of Existing Buildings*). The Proposed Project's Site includes a total existing building area of 63,171 square feet, which includes approximately 54,531 square feet of permanent building area and 8,640 square feet of relocatable building area (see Table 3-3, *Existing Campus Land Use*). The campus contains four permanent buildings (Buildings A to D) and multiple modular and portable buildings (B1 to B11).

Table 5-9.1 Characteristics of Existing Buildings

Building Name	Year Built	Current Use	Building Square Feet	Building Type	Building Height	Number of Stories
Α	1951	Multipurpose Cafeteria	4,439	Permanent	23 ft 8 in	1
В	1923	Classrooms	13,425	Permanent	41 ft 4 in	2
С	1923	Administration/Classrooms/ Multipurpose Auditorium	27,390	Permanent	38 ft 6 in	2
D	1973	Preschool Classrooms	3,796	Modular	11 ft 9 in	1
B1-B3	Unknown	Classrooms	2,880	Portable	12 ft	1
B4-B9	Unknown	Classrooms	5,760	Portable	12 ft	1
B10-B11	Unknown	Classrooms	1,920	Portable	12 ft	1
Recreational Building	Unknown	Recreation	468	Portable	12 ft	1

Source: Historic Resources Group 2022.

The existing athletic facilities at the school are available for community use through the Civic Center Act and joint-use agreement between the District and the City. When the school facilities are not in use and are not scheduled for school-sponsored or District-related events, certain community organizations and members are permitted to use them for their events by obtaining a Civic Center Permit from the SMMUSD. Permitted events may include community and/or city use of the playfields, common areas, and classrooms, as permitted in the 2022 "Master Facility Use Agreements with the Santa Monica-Malibu Unified School" (City of Santa Monica 2022a).

Operation of the school facilities for community use typically occur outside normal school operating hours, generally after 3:00 p.m. on weekdays and after 8:00 a.m. on Saturdays and Sundays, and all outdoor activities would be completed by sunset, on both weekdays and weekends. Indoor activities are typically completed by 9:00 p.m. but would be permitted until 10 p.m. Parking for community use would be provided in the school's on-site surface parking lots. These occasional uses would not change with the Proposed Project.

Surrounding Land Uses

McKinley ES is surrounded by single-family and multi-family residential neighborhoods to the immediate north, west, and south. Commercial uses are to the southeast and southwest, and medical offices are to the south across Santa Monica Boulevard. Providence Saint John's Health Center consists of midrise buildings to the west across 23rd Court. Residential properties located along Chelsea Avenue consist of both one- and two-story residences, residential properties along Arizona Avenue consist primarily of one-story residences, and residential properties along 23rd Court consist of two- and three-story residences. Additionally, commercial properties surrounding the campus along Chelsea Avenue and 23rd Court consist of one-story structures, and the medical offices located along Santa Monica Boulevard consist of three- and four-story structures. The campus is surrounded by properties zoned for Low-Density Residential (R2) and Mixed-Use Boulevard Low (MUBL) (Santa Monica 2015).

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The surrounding residential neighborhood streets include Chelsea Avenue, Arizona Avenue, and 23rd Court (alley). Santa Monica Boulevard, a regional transportation corridor, is immediately south of the campus. Wilshire Boulevard is one block north of the campus.

General Plan and Existing Zoning

The City of Santa Monica General Plan Land Use designation for the campus is Institutional/Public Lands. The zoning designation for the campus is Institutional/Public Lands (PL) (see Figure 3-3a, *General Plan Land Use*, and Figure 3-3b, *Zoning Designations*). As stated in the SMMC, permitted uses include public or semipublic facilities, including municipal offices, schools, libraries, museums, or performance spaces, cemeteries, corporation yards, utility stations, and similar uses. This zoning designation is consistent with the LUCE's Institutional/Public Lands land use designation. Additionally, according to the City of Santa Monica's Local Coastal Plan, the campus is not within the Coastal Zone; therefore, it is not subject to the City's Local Coastal Plan (LCP) (Santa Monica 2018a).

5.9.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would:

- LU-1 Physically divide an established community.
- LU-2 Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

5.9.3 Environmental Impacts

5.9.3.1 IMPACT ANALYSIS

The following impact analysis addresses thresholds of significance for which the Initial Study disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.9-1: Project implementation would not divide an established community. [Threshold LU-1]

The Proposed Project Site is within an established and currently operating elementary school campus. The surrounding area is fully developed with urban land uses, including residential land uses. Proposed Project construction and operational activities would occur within the existing campus and would not divide an established community. Therefore, **no impacts** related to the physical division of an established community would result from the Proposed Project.

Impact 5.9-2: Project Implementation [would/would not] conflict with applicable plans adopted for the purpose of avoiding or mitigating an environmental effect. [Threshold LU-2]

The Proposed Project would provide 14 new classrooms to replace existing portable classrooms and new and reconfigured playfields/playgrounds and parking lots, for a total of 137,030 square feet of building space on

the McKinley ES campus. At completion, the Proposed Project would result in a total of 33 classrooms, from preschool through 5th grade, including special education, and dedicated outdoor play areas for preschool through kindergarten, for a total of 182,284 square feet of building space. The existing capacity of the school would not be changed.

Policy Consistency

Land Use and Circulation Element

Table 5.9-2, General Plan Relevance/Consistency, has been provided to demonstrate overall consistency with the applicable policies from the General Plan's Land Use and Circulation Element that have been adopted for the purposes of avoiding or mitigating environmental impacts.

Table 5.9-2 (General Plan Relevance/C	Consistency: Lanc	d Use and Circu	lation Element
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Table 5.9-2 General Plan Relevance/Consistency: Land Use and Circulation Element	
General Plan Policies	Relevance/Consistency
Policy LU1.5. Design Compatibility. Require that new infill development be compatible with the existing scale, mass and character of the residential neighborhood. New buildings should transition in size, height and scale toward adjacent residential structures.	Consistent. The McKinley ES campus is surrounded by dense multi-family residential neighborhoods immediately to the north, west, and south. Commercial uses are to the southeast and southwest, and medical offices are to the south, across Santa Monica Boulevard. The new buildings constructed along Chelsea Avenue would have a maximum height of approximately 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. The new structures would be compatible with the existing Building B, which has a total height of 41 feet 4 inches, and Building C, which has a total building height of 38 feet 6 inches. Buildings B and C would remain in place, integrating the new building with the existing campus. The Proposed Project would incorporate heights and scale to maintain a generally consistent overall street front. The Proposed Project would be compatible in scale and character with the existing neighborhood and provide respectful transitions in size, height. and scale toward adjacent residential structures (see Figures 5.1-1 through 5.1-5 in Section 5.1, Aesthetics, of this EIR). Therefore, the Proposed Project would be consistent with this policy.
Policy LU3.3. Focus on Local-Serving Uses. Emphasize uses which address local-serving needs and daily resources necessary to reduce vehicle trips and vehicle miles traveled.	Consistent. The Proposed Project would include the renovation and modernization of the existing McKinley ES campus. With respect to vehicle miles traveled (VMT), and as further discussed in Section 5.12, <i>Transportation</i> , under Tier 1 of the City's VMT screening criteria, projects that include new construction of educational facilities/institutions (such as increased classrooms, gym/recreational space, and other supportive areas), provided that there would be no student enrollment increase or if student enrollment is increased, 75 percent of the student body comes from within 2 miles of the school, would not result in significant adverse VMT impacts. The Proposed Project would fall under Tier 1 of the City's screening criteria and is screened out from further VMT analysis and is therefore deemed to have a less than significant VMT impact. As the Proposed Project would serve as a local educational facility and would not result in a significant adverse impact with respect to VMT, the Proposed Project would be consistent with this policy.
Goal LU4. Complete Sustainable Neighborhoods: Create complete neighborhoods that exemplify sustainable living practices with open spaces, green connections, diverse housing, local employment, and local-serving businesses that meet the daily needs of residents and reduce vehicle trips and GHG emissions.	Consistent. The Proposed Project would include the renovation and modernization of the existing McKinley ES campus. The campus serves the residential neighborhoods immediately to the north, west, and south. Since the modernization of the existing school campus would continue to be a local-serving land use, and because the Proposed Project would not result in adjusted attendance boundaries, an increase in student capacity or staff, the Proposed Project would not generate an increase in VMT. Overall, the redevelopment and operation of the Proposed Project would not generate annual emissions that exceed applicable standards. The Proposed Project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. All new buildings developed under the Proposed

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Table 5.9-2 General Plan Relevance/Consistency: Land Use and Circulation Ele
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General Plan Policies	Relevance/Consistency
	Project would be designed using applicable green building practices, including those of the most current Building Energy Efficiency Standards (24 CCR Part 6) and CALGreen (24 CCR Part 11). The Proposed Project would be developed with High Performance Schools (CHPS) Green Building Resolution Standards and would be consistent with the energy-related goals and actions of the Districtwide Plan for Sustainability. With respect to open space, at completion of Phases 2 and 3 of the Proposed Project, the campus would contain a total of 173,878 square feet of open space, including 93,169 square feet of playfields and playgrounds, 72,605 square feet of landscaped areas, and 8,104 square feet of outdoor classroom space (see Table 5.11-1, McKinley ES Campus Open Space, in Section 5.11, Recreation). As the Proposed Project would continue to provide education services for the surrounding residential community, would incorporate sustainability practices into building design, and would result in additional open space at project completion, the Proposed Project would be consistent with this policy.
Policy LU4.1. Active Centers. Create active neighborhood districts that cluster services, goods, and cultural and recreational uses within walking distance of residences to create a focus for community activity and an active environment that can sustain local uses.	Consistent. As discussed above, the Proposed Project would include the renovation and modernization of the existing McKinley ES campus. The campus serves the residential neighborhoods immediately to the north, west, and south. As discussed in Section 5.12, <i>Transportation</i> , the Proposed Project would not conflict with the City's Pedestrian Action Plan. Additionally, the Proposed Project would include pedestrian access points to the campus via the new classroom buildings along Chelsea Avenue. Additionally, all other community recreational activities that occur under the Civic Center Permit would continue after the completion of construction, in compliance with Policy CE-1.8 and CE-1.9 of the Santa Monica General Plan, to improve and expand sports and recreational facilities throughout the City and provide recreational facilities, offering residents of all ages affordable and safe access to high-quality recreational opportunities. Therefore, the Proposed Project would be consistent with this policy.
Policy LU4.2. Uses to Meet Daily Needs. Encourage uses that meet daily needs such as grocery stores, local-serving restaurants and other businesses and activities within walking distance of residences to reduce the frequency and length of vehicle trips.	Consistent. The Proposed Project would include the renovation and modernization of the existing McKinley ES campus. The campus serves the residential neighborhoods immediately to the north, west, and south. As discussed in Section 5.12, <i>Transportation</i> , the Proposed Project would not conflict with the City's Pedestrian Action Plan. The Proposed Project would include landscaped sidewalks and setbacks to improve the pedestrian realm along Chelsea Avenue and Arizona Avenue. Additionally, the Proposed Project would include pedestrian access points to the campus via the new classroom building along Chelsea Avenue. As the Proposed Project would serve as a local educational facility and would not result in a significant adverse impact with respect to VMT, the Proposed Project would be consistent with this policy.
Policy LU10.2. Benefits Tied to Community Values. Require new development that requests height above the base to provide measurable benefits to foster complete neighborhoods and support the goals of the LUCE, including reducing vehicle trips and GHG emissions, maintaining diversity, and promoting affordable and workforce housing.	Consistent. As shown below in Table 5.9-2, the Proposed Project would be compliant overall with the development standards and land uses pursuant to Chapter 9.15 of the SMMC. The new buildings constructed along Chelsea Avenue would have a maximum height of approximately 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. While the building heights would exceed the maximum permitted height of 32 feet above grade, as stipulated in Table 9.15.030, Development Standards: Public and Park Districts, of the SMMC Chapter 9.15, the new structures would be compatible with the existing Building B, which has a total height of 41 feet 4 inches, and Building C, which has a total building height of 38 feet 6 inches. Both would remain in place, integrating the new buildings into the existing campus.
	The Proposed Project would be designed with a variety of heights and shapes to create visual interest while maintaining a generally consistent overall street front of compatible scale and character with the existing neighborhoods, providing respectful transitions to existing homes, and transitioning in size, height, and scale toward adjacent residential structures (see Figure 5.1-6, <i>Visual Simulations of Proposed Structures</i> , in Section 5.1, <i>Aesthetics</i> , of the EIR).

General Plan Policies

Table 5.9-2 General Plan Relevance/Consistency: Land Use and Circulation Element

As demonstrated in this consistency analysis, the Proposed Project would be substantially consistent with the LUCE. The Proposed Project would meet the LUCE goals for enhancing neighborhoods with design compatibility, focusing on local-serving uses by enhancing an existing campus serving existing surrounding neighborhood, and providing complete sustainable neighborhoods with benefits tied to community values. Although the Proposed Project's height would be 6 feet 8 inches over the maximum building height of 32 feet, pursuant to Section 9.15.030 of the SMMC, the Proposed Project would continue to provide education services for the surrounding residential community, would be compatible in scale and character with the existing campus and neighborhoods, would incorporate sustainability practices into building design, would result in additional open space at the Proposed Project's completion, would improve the pedestrian realm along Chelsea Avenue and Arizona Avenue, and would not result in a significant adverse impact with respect to VMT. Additionally, the McKinley ES campus would continue to provide recreational resources to the community in a joint use capacity, the same as under existing conditions. Therefore, the Proposed Project would be consistent with this policy.

Relevance/Consistency

Policy LU10.4. Discretionary Review. Require a discretionary review process with community input for projects above the base height except for 100 percent affordable housing projects. Inclusion of community benefits and specific findings will be required for conditional approval above the base height and density.

Consistent. As discussed above under Policy LU10.2, the Proposed Project would be compliant overall with the development standards and land uses pursuant to Chapter 9.15 of the SMMC. The new buildings constructed along Chelsea Avenue would have a maximum height of 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. While the building heights would exceed the maximum permitted height of 32 feet above grade, as stipulated in Table 9.15.030, Development Standards: Public and Park Districts, of the SMMC Chapter 9.15, the new structures would be compatible with the existing Building B, which has a total height of 41 feet 4 inches, and Building C, which has a total building height of 38 feet 6 inches. and both would remain in place, integrating the new buildings into the existing campus. The General Plan Land Use designations immediately to the east, west and south are Low-Density Housing and Mixed Use Boulevard Low. The base height in the Mixed-Use Boulevard Low District is 32 feet (2 stories) with a 1.5 FAR. A project will receive a 4-foot height bonus above the 32-foot base height, allowing for an additional floor of housing, by building the required affordable housing units in accordance with the percentage requirements specified in the City's Affordable Housing Production Program for the project as a whole. For Subject to a discretionary review process, projects that provide community benefits may request a height up to 36 feet and 1.75 FAR. Subject to a discretionary review process, projects that include additional community benefits may request a height up to 47 feet and 2.0 FAR based on location specified in the LUCE.

The Proposed Project is designed with height and scale to create visual interest while maintaining a generally consistent overall street front with the existing campus. The Proposed Project would be compatible in scale and character with the existing neighborhoods and would provide respectful transitions in size, height, and scale toward adjacent residential structures (see Figure 5.1-6, *Visual Simulations of Proposed Structures*, in Section 5.1, *Aesthetics*, of the EIR).

As demonstrated in this consistency analysis, the Proposed Project would be substantially consistent with the LUCE. Although the Proposed Project's height would be 6 feet 8 inches over the maximum base height of 32 feet allowed, pursuant to Section 9.15.030 of the SMMC, the Proposed Project would continue to provide education services for the surrounding residential community, would be compatible in scale and character with the existing campus and neighborhoods, would incorporate sustainability practices into building design, would result in additional open space at the Proposed Project's completion, would improve the pedestrian realm along Chelsea Avenue and

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Table 5.9-2 General Plan Relevance/Consistency: Land Use and Circulation Element
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General Plan Policies	Relevance/Consistency
	Arizona Avenue, and would not result in a significant adverse impact with respect to VMT. Therefore, the Proposed Project would be consistent with this policy.
Policy LU13.1. Maintain Character. Reinforce the City's distinctive natural, social, and environmental characteristics including its beachfront and connections to the water, civic and cultural institutions, terrain and climate, and the geographic fabric of neighborhoods and boulevards.	Consistent. The Proposed Project would include the renovation and modernization of the existing McKinley ES campus. The campus serves the residential neighborhoods immediately to the north, west, and south. The Proposed Project would be designed with height and scale to create visual interest while maintaining a generally consistent overall street front with the existing campus. The Proposed Project would be compatible in scale and character with the existing neighborhoods and would provide respectful transitions in size, height, and scale toward adjacent residential structures (see Figure 5.1-6, Visual Simulations of Proposed Structures, in Section 5.1, Aesthetics, of this DEIR).
	The Proposed Project would continue to provide education services for the surrounding residential community, would be compatible in scale and character with the existing campus and neighborhoods, would incorporate sustainability practices into building design, would result in additional open space at project completion, and would improve the pedestrian realm along Chelsea Avenue and Arizona Avenue. Therefore, the Proposed Project would be consistent with this policy.
Goal LU15. Enhance Santa Monica's Urban Form: Encourage well-developed design that is compatible with the neighborhoods, responds to the surrounding context, and creates a comfortable pedestrian environment.	Consistent. The Proposed Project would include the renovation and modernization of the existing McKinley ES campus. The campus serves the residential neighborhoods immediately to the north, west, and south. The Proposed Project would be designed with height and scale to create visual interest while maintaining a generally consistent overall street front along Chelsea Avenue with the existing campus. The Proposed Project would be compatible in scale and character with the existing neighborhoods and would provide respectful transitions in size, height, and scale toward adjacent residential structures (see Figure 5.1-6, Visual Simulations of Proposed Structures, in Section 5.1, Aesthetics, of the EIR). The Proposed Project would continue to provide education services for the surrounding residential community, would be compatible in scale and character with the existing campus and neighborhoods, would incorporate sustainability practices into building design, would result in additional open space at the Proposed Project's completion, and would improve the pedestrian realm along Chelsea Avenue and Arizona Avenue. Therefore, the Proposed Project would be consistent with this policy.
Policy LU15.3. Context-Sensitive Design. Require site and building design that is context sensitive and contributes to the City's rich urban character.	Consistent. The new buildings constructed along Chelsea Avenue would have a maximum height of approximately 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. The new structures would be compatible with the existing Building B, which has a total height of 41 feet 4 inches, and Building C, which has a total building height of 38 feet 6 inches. Both would remain in place, integrating the new buildings with the existing campus. The Proposed Project is designed with height and scale to create visual interest while maintaining a generally consistent overall street front along Chelsea Avenue with the existing campus. The Proposed Project would be compatible in scale and character
	with the existing neighborhoods and would provide respectful transitions in size, height, and scale toward adjacent residential structures (see Figure 5.1-6, <i>Visual Simulations of Proposed Structures</i> , in Section 5.1, <i>Aesthetics</i> , of the EIR). As discussed in Section 5.1, <i>Aesthetics</i> , of this EIR, in compliance with Goal LU12 and Policies LU12.2 and LU12.3 of the LUCE, the Proposed Project would preserve all areas and structures within the campus's historical district, which characterize and represent the City's rich heritage and are considered eligible for listing in the California Register of Historical Resources. Therefore, the Proposed Project would be consistent with this policy.

Table 5.9-2 General Plan Relevanc	e/Consistency: Land Use and Circulation Element
General Plan Policies	Relevance/Consistency
Policy LU15.8. Building Articulation. Building façades should be well designed with appropriate articulation in the form of setbacks, offsets, projections and a mix of architectural materials and elements to establish an aesthetically pleasing pattern. Large areas of glass above the ground floor require special design consideration. Highly reflective materials are to be avoided, and dark or reflective glass is prohibited.	Consistent. As discussed in Section 5.1, Aesthetics, of this EIR, the proposed new buildings would be of quality design and would incorporate design features such as colors and exterior materials that are compatible with the surrounding landscape (see Figure 5.1-7, Proposed Building Features). The Proposed new buildings have been designed to break up the sight lines along Chelsea Avenue and has variated openings to break up the building massing. The second story would create a new sightline along the front of Chelsea Avenue. Additionally, the Proposed Project would be required to comply with SMMC Section 9.21.120, which prohibits the use of highly reflective materials. Section 9.21.120 states that no more than 25 percent of the surface area of any façade on any new building may contain black or mirrored glass or other mirror-like material that is highly reflective, and that materials for roofing must be nonreflective. Therefore, the Project would be consistent with this policy.
Policy LU15.10. Roofline Variation. Buildings should be designed with a variety of heights and shapes to create visual interest while maintaining a generally consistent overall street front. To achieve this goal, development standards should provide flexibility to encourage buildings with interesting silhouettes and skylines, and the primary building façade shall not be lower than the designated minimum street façade height.	Consistent. The new buildings constructed along Chelsea Avenue would have a maximum height of approximately 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. The new structures would be compatible with the existing Building B, which has a total height of 41 feet 4 inches, and Building C, which has a total building height of 38 feet 6 inches. Buildings B and C would remain in place, integrating the new buildings with the existing campus. The Proposed Project is designed with height and scale to create visual interest while maintaining a generally consistent overall street front along Chelsea Avenue with the existing campus. The Proposed Project would be of compatible scale and character with the existing neighborhoods and would provide respectful transitions in size, height, and scale toward adjacent residential structures (see Figures 5.1-1 through 5.1-5 in Section 5.1, Aesthetics, of the EIR). As such, the Proposed Project would be consistent with this policy.
Policy N1.2. Encourage enhancement of neighborhood services to achieve the goal of creating complete neighborhoods containing an optimal array of local-serving retail and services within walking distance and fostering new local-serving retail and services in areas currently lacking them.	Consistent. As discussed above, the Proposed Project would include the renovation and modernization of the existing McKinley ES campus. The campus serves the residential neighborhoods immediately to the north, west, and south. The District is enhancing the facilities at the McKinley ES campus to continue to meet the education needs of the residents of this community. The project would include landscaped sidewalks and setbacks to improve the pedestrian realm along Chelsea Avenue and Arizona Avenue. Additionally, the Proposed Project would include pedestrian access points to the campus via the new classroom building along Chelsea Avenue. Therefore, the Proposed Project would be consistent with this policy.
Policy N1.7. Make new development projects of compatible scale and character with the existing neighborhoods, providing respectful transitions to existing homes, including ground level open spaces and appropriate building setbacks and upper-floor step backs along neighborhood streets.	Consistent. The Proposed Project would include the renovation and modernization of the existing McKinley ES campus. The campus serves the residential neighborhoods immediately to the north, west, and south. The Proposed Project would be designed with height and scale to create visual interest while maintaining a generally consistent overall street front along Chelsea Avenue with the existing campus. The Proposed Project would be compatible in scale and character with the existing neighborhoods and would provide respectful transitions in size, height, and scale toward adjacent residential structures (see Figures 5.1-1 through 5.1-5 in Section 5.1, Aesthetics, of the EIR). The existing public view of the McKinley ES campus from Santa Monica Boulevard would be improved with the removal of the modular classroom building along Santa Monica Boulevard. Proposed Project would continue to provide education services for the surrounding residential community, would be compatible in scale and character with the existing campus and neighborhoods, would incorporate sustainability practices into building design, would result in additional open space at the Proposed Project's completion, and would improve the pedestrian realm along Chelsea Avenue and Arizona Avenue. Therefore, the Proposed Project would be consistent with this policy.

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culation Element
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Table 5.9-2 General Plan Relevanc	e/Consistency: Land Use and Circulation Element Relevance/Consistency
General Plan Policies Goal N3: Locate services and amenities within	,
walking distance of neighborhoods.	Consistent. As discussed above, the Proposed Project would include the renovation and modernization of the existing McKinley ES campus. The campus serves the residential neighborhoods immediately to the north, west, and south. The Proposed Project would include landscaped sidewalks and setbacks to improve the pedestrian realm along Chelsea Avenue and Arizona Avenue. Additionally, the Proposed Project would include pedestrian access points to the campus via the new classroom building along Chelsea Avenue. Therefore, the Proposed Project would be consistent with this policy.
Goal N4: Ensure compatible design to preserve and enhance neighborhoods.	Consistent. The new buildings constructed along Chelsea Avenue would have a maximum height of approximately 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. The new structures would be compatible with the existing Building B, which has a total height of 41 feet 4 inches, and Building C, which has a total building height of 38 feet 6 inches. Buildings B and C would remain in place, integrating the new buildings with the existing campus.
	The Proposed Project would be designed with height and scale to create visual interest while maintaining a generally consistent overall street front along Chelsea Avenue with the existing campus. The Proposed Project would be compatible in scale and character with the existing neighborhoods and would provide respectful transitions in size, height, and scale toward adjacent residential structures (see Figures 5.1-1 through 5.1-5 in Section 5.1, <i>Aesthetics</i> , of the EIR). Therefore, the Proposed Project would be consistent with this policy.
Policy N4.1. Design new development to be compatible with the existing scale, mass and character of the residential neighborhood. New buildings should transition in size, height and scale toward adjacent residential structures.	Consistent. The new buildings constructed along Chelsea Avenue would have a maximum height of approximately 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. The new structures would be compatible with the existing Buildings B, which has a total height of 41 feet 4 inches and Building C, which has a total building height of 38 feet 6 inches, and would both remain in place, integrating the buildings the existing campus.
	The Proposed Project would be designed with height and scale to create visual interest while maintaining a generally consistent overall street front along Chelsea Avenue with the existing campus. The Proposed Project would be compatible in scale and character with the existing neighborhoods and would provide respectful transitions in size, height, and scale toward adjacent residential structures (see Figures 5.1-1 through 5.1-5 in Section 5.1, Aesthetics, of the EIR). As such, the Proposed Project would be consistent with this policy.
Policy N4.4. Design new development or redeveloped structures in such a manner as to minimize impacts on or disruptions to neighbors.	Consistent. As detailed in Section 3, <i>Project Description</i> , of this EIR, the Proposed Project would be constructed in three phases over an approximately 7-year period. Proposed Project construction would begin as early as Summer 2023 and end in Spring 2030. Throughout the duration of construction, construction activities would typically occur during hours permitted by the SMMC Section 4.12.110, which limits the hours of construction to 8:00 a.m. to 6:00 p.m. on weekdays and 9:00 a.m. to 5:00 p.m. on Saturday, and prohibits construction on Sundays and holidays.
	As further discussed on Section 5.1, <i>Aesthetics</i> , of the EIR, in the event portable lighting is required during construction of the Proposed Project, the Proposed Project would conform to applicable shielding, light trespass, and maximum height standards established by Section 9.21.080 of the SMMC. Compliance with SMMC general standards pertaining to shielding of lighting (see SMMC Section 9.21.080(C)) would also minimize the potential for portable lighting elements to create obtrusive glare on adjacent properties or public rights-of-way.

Table 5.9-2 General Plan Relevance/Consistency: Land Use and Circulation Element

General Plan Policies	Relevance/Consistency
	As discussed in Section 5.12, <i>Transportation</i> , of this EIR, during construction of the Proposed Project, implementation of Mitigation Measure T-1 would require the construction contractor to prepare and implement a Temporary Traffic Control Plan to address safety hazards, including but not limited to avoidance of construction staging and delivery during off-peak pick-up/drop-off times, which would reduce the temporary impact. Additionally, construction traffic impacts would be localized and temporary and would not introduce a permanent hazardous condition to the local roadways. Therefore, with respect to minimizing disruptions to neighbors, specifically related to light, glare, noise, and traffic, the Proposed Project would be consistent.
Goal N23: Protect, preserve and enhance the Mid-City residential neighborhood and ensure compatible design.	Consistent. The new buildings constructed along Chelsea Avenue would have a maximum height of approximately 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. The new structures would be compatible with the existing Building B, which has a total height of 41 feet 4 inches, and Building C, which has a total building height of 38 feet 6 inches. Buildings B and C would remain in place, integrating the buildings the existing campus.
	The Proposed Project would be designed with height and scale to create visual interest while maintaining a generally consistent overall street front along Chelsea Avenue with the existing campus. The Proposed Project would be compatible in scale and character with the existing neighborhoods and would provide respectful transitions in size, height, and scale toward adjacent residential structures (see Figures 5.1-1 through 5.1-5 in Section 5.1, <i>Aesthetics</i> , of the EIR). Therefore, the Proposed Project would be consistent with this policy.

Open Space Element

As shown in Figure 5.11-2, *Phase 1 Open Space and Recreational Facilities*, and Figure 5.11-3, *Phase 2 Open Space and Recreational Facilities*, in Section 5.11, *Recreation*, of this EIR, implementation of the Proposed Project would include the modernization and reconfiguration of the existing campus playground. Community recreational activities that occur under the Civic Center Permit would continue after the completion of construction, in compliance with Policies CE-1.8 and CE-1.9 of the Santa Monica General Plan, to improve and expand sports and recreational facilities throughout the city and provide recreational facilities, offering residents of all ages affordable and safe access to high-quality recreational opportunities. Additionally, the Proposed Project would be consistent with Objective 1, Policies 1.1 and 1.2 of the Open Space Element, which aim to develop and maintain a diversified and balanced system of high-quality open space, preserve existing public open space, and provide opportunities for the enjoyment of open space within every Santa Monica Neighborhood. Lastly, the Proposed Project would be consistent with Objective 2 and Policies 2.2 and 2.3 of the Open Space Element, which aim to expand the open space through use of public properties, expand open space through shared use of certain facilities, and improve school sites as public open space. Therefore, the Proposed Project would be consistent with the goals and policies identified in the Open Space Element.

Noise Element

As discussed in Section 5.10, *Noise*, of this EIR, the Santa Monica-Malibu Unified School District construction contract bid shall require the chosen construction contractor(s) to prepare a Construction Noise Control Plan.

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The details of the Construction Noise Control Plan would be included as part of the permit application drawing set and as part of the construction drawing set. The District would be required to follow the daytime construction noise standards shown in Table 5.10-5, *Santa Monica Construction Noise Standards*, (see also, **Mitigation Measure N-1**). Therefore, the Proposed Project would be consistent with Policies 2, 3, and 4 of the Noise Element, which aim to incorporate noise considerations into land use planning decisions, improve enforcement of required noise mitigation measures in building design, and develop measures to control construction noise impacts, respectively.

Chapter 9.15 Public and Semi-Public Districts

As shown in Table 5-3, Summary of Proposed Project's Total Development, the Proposed Project would provide 14 new classrooms, new and reconfigured playfields/playgrounds and parking lots, for a total of 137,030 square feet of building space on the McKinley ES campus. At completion, the Proposed Project would result in a total of 33 classrooms, from preschool through 5th grade, including special education, and dedicated outdoor play areas for preschool through kindergarten, for a total of 182,284 square feet of building space.

As shown below in Table 5.9-3, Summary of Proposed Project's Total Development, the Proposed Project would be compliant overall with development standards and land uses pursuant to Chapter 9.15 of the SMMC. The new buildings constructed along Chelsea Avenue would have a maximum height of 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. While the building heights would exceed the maximum permitted height of 32 feet above grade, as stipulated in Table 9.15.030, Development Standards: Public and Park Districts, of the SMMC Chapter 9.15, the new structures would be compatible with the existing Building B, which has a total height of 41 feet 4 inches, and Building C, which has a total building height of 38 feet 6 inches. Buildings B and C would remain in place, integrating the new buildings with the existing campus.

The Proposed Project would be designed with a variety of heights and shapes to create visual interest while maintaining a generally consistent overall street front, be of compatible scale and character with the existing neighborhoods, provide respectful transitions to existing homes, and transition in size, height, and scale toward adjacent residential structures (see Figures 5.1-1 through 5.1-5 in Section 5.1, *Aesthetics*, of the EIR). Notwithstanding the exceedance of the permitted maximum height by 6 feet 8 inches in the new buildings along Chelsea Avenue, the Proposed Project would be in substantial compliance with the development standards pursuant to Chapter 9.15 of the SMMC and therefore consistent with the SMCC.

Table 5.9-3 Summary of Proposed Project's Total Development

Building	Status	Classrooms	Square Footage	Maximum Height
New Construction	Otatus	Glassiconis	- Oquare i oomge	Height
Phase 1				
One New Classroom Building (New Elementary Classrooms and New Front Office and School Support Spaces)	New	8	24,410	38 feet 8 inches
New Parking Lot (Arizona Avenue/Chelsea Avenue)	New	-	32,000	-
Renovated Library	Existing	-	1,354	No Change
Interim Playground ¹ and New Open Space	New	-	15,587	-
Phase 1 Development Square Footage	-	-	73,351	-
Phase 2				
Renovation of Building C	Existing	-	2,330	-
Lunch Shelter along Building A	New	-	3,500	-
New Elevator and Stair core for Building B and C.	New	-	870	-
Phase 2 Development Square Footage	-	-	6,700	-
Phase 3				
New Two-Story Building for T-K/Kindergarten and Elementary Classrooms	New	6	26,500	42 feet 8 inches
New Parking Lots (Arizona Avenue/23rd Court)	New	-	23,000	-
Reconfigured Playfields and New Open Space ² Space ²	New	-	7,479	
Phase 3 Development Square Footage		-	56,979	
Subtotal – New Development		14	137,030	
Existing Buildings				
Building A	Existing	-	4,439	23 ft 8 in
Building B	Existing	8	13,425	41 ft 4 in
Building C	Existing	11	27,390	38 ft 6 in
Subtotal - Existing Development		19	45,254	
Total		33	182,284	

Source: SMMUSD 2023.

Section 9.15.030 Development Standards

As discussed in Section 5.1, Aesthetics, new development is governed by the City's zoning ordinance and the LUCE, which includes development standards and design policies. The new classroom building constructed along Chelsea Avenue would have a maximum height of 38 feet 8 inches above natural grade and would not contain any mechanical equipment on the roof. Though the building height would exceed the maximum permitted height of 32 feet above grade—as stipulated in Table 9.15.030, Development Standards – Public and Park Districts, of the SMMC Chapter 9.15—the new structure would be compatible with the existing Buildings B, which has a total height of 41 feet 4 inches, and Building C, which has a total building height of 38 feet 6 inches. Both these buildings would remain in place, integrating the proposed buildings to the existing campus.

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¹ Interim playground located in place of portable buildings

² Includes outdoor classrooms

Chapter 9.21 General Site Regulations

Adherence to SMMC standards and regulations regarding lighting and reflective materials would ensure that the project would not result in adverse effects to daytime and nighttime views due to new lighting and glare.

Chapter 9.28 Parking, Loading, and Circulation

As discussed in Section 5.12, *Transportation*, the Proposed Project would be required to comply with the standards and requirements in the SMMC. Specifically, the Proposed Project would comply with Chapter 9.28, *Parking, Loading, and Circulation*, of the SMMC, with reconfiguration and implementation of new parking lots on the McKinley ES campus. Phase 2 of the Proposed Project would include implementation of a new interim parking lot along Chelsea Avenue and Arizona Avenue, which would be removed during Phase 3. Phase 3 of the Proposed Project would include the construction of a new permanent parking lot along 23rd Court in place of the previous garden and portable classrooms. Parking on the campus would increase from 90 stalls to 100 stall upon completion of the Proposed Project. Therefore, the Proposed Project would be consistent with the provisions established by the SMMC.

Chapter 9.67 Parks and Recreation Development Impact Fee Program

As further discussed in Section 5.11, Recreation, of this EIR, the Proposed Project includes the improvement of existing publicly available recreational facilities within the Proposed Project's Site. The Proposed Project would not involve any construction of recreational facilities beyond what is proposed to serve the existing and future students. As shown in Table 5.11-1, McKinley ES Campus Open Space, in Section 5.11, Recreation, of this EIR, at completion of Phases 2 and 3, the campus would contain a total of 173,878 square feet of open space, including 93,169 square feet of playfields and playgrounds, 72,605 square feet of landscaped areas, and 8,104 square feet of outdoor classroom space. Although playgrounds and play fields on the campus would be reduced by approximately 30,106 square feet at completion of the Proposed Project, compared to existing conditions, landscaped and open space areas on the campus would increase by approximately 29,481 square feet, and outdoor classroom space would increase by approximately 8,104 square feet. The Proposed Project is exempt from the City's Parks and Recreation Development Impact Fee Program.

Chapter 4.12 Noise

As discussed in Section 5.10, *Noise*, of this EIR, the SMMUSD construction contract bid would require the chosen construction contractor(s) to prepare a Construction Noise Control Plan. The details of the Construction Noise Control Plan would be included as part of the permit application drawing set and as part of the construction drawing set. Specifically, SMMC section 4.12.110(a) limits the hours of construction to 8:00 a.m. to 6:00 p.m. on weekdays and 9:00 a.m. to 5:00 p.m. on Saturday and prohibits construction on Sundays and holidays. The District would be required to follow the daytime construction noise standards shown in Table 5.10-5, *Santa Monica Construction Noise Standards* (see also **Mitigation Measure N-1**). Therefore, the Proposed Project would be consistent with the SMMC with respect to noise.

Conclusion

In summary, the Proposed Project would be consistent with the Institutional/Public Lands land use designation. The Proposed Project's development would not require modification to the General Plan land use

and zoning designations. Development of the Proposed Project would be consistent overall with the goals and policies in the General Plan and the regulations and standards defined by the SMMC. Impacts would be **less** than significant.

5.9.4 Mitigation Measures

No mitigation measures are required.

5.9.5 Level of Significance After Mitigation

All impacts are **less than significant**..

5.9.6 Cumulative Impacts

The area considered for cumulative impacts is the neighborhoods surrounding the McKinley ES Campus and related projects. As discussed above, the Proposed Project substantially meets the objectives and goals of the City's General Plan and SMMC. The Proposed Project does not include mitigation measures for land use and planning impacts on the Proposed Project's Site. Therefore, the Proposed Project would not contribute to cumulative land use and planning impacts and would not be cumulatively considerable. As a result, cumulative impacts to land use and planning are considered **less than significant**.

5.9.7 References

Santa Monica, City of. 2015, July 24. Santa Monica Land Use and Circulation Element. Accessed March 7, 2023. https://learn.sharedusemobilitycenter.org/wp-content/uploads/policy-documents -4/Santa%20Monica_Revised%20LUCE%207.24.15_web.pdf.

———. Santa Monica Municipal Code. https://library.qcode.us/lib/santa_monica_ca/pub/municipal_code.

Southern California Association of Governments (SCAG). 2020, September 3. Connect SoCal. https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal-plan_0.pdf?1606001176.

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5.10 NOISE

This section of the Draft Environmental Impact Report (DEIR) evaluates the potential for implementation of the McKinley Elementary School Campus Master Plan (Proposed Project) to result in noise impacts. This section discusses the fundamentals of sound; examines federal, state, and local noise guidelines, policies, and standards; characterizes existing noise levels in the Proposed Project's area; evaluates potential noise and vibration impacts associated with the Proposed Project; and provides mitigation to reduce noise impacts at sensitive receptor locations. Noise modeling worksheets are included in Appendix J of this DEIR.

A California Environmental Quality Act (CEQA) scoping meeting was conducted on January 31, 2023, where verbal comments were received in response to the Initial Study/Notice of Preparation (IS/NOP) regarding the potential noise impacts that would result from the Proposed Project. In addition, written comments were received regarding the potential impacts related to noise during construction on the McKinley Elementary School (McKinley ES) campus. The IS/NOP described that the District would seek a permit from the City of Santa Monica to allow for early construction start time to minimize conflicts with school DOPU times. As a result of comments received, this is no longer being considered. Comments received regarding noise are considered in this section. The IS/NOP and all scoping comment letters are included as Appendices B and C of this document.

5.10.1 Environmental Setting

5.10.1.1 NOISE AND VIBRATION FUNDAMENTALS

Noise is defined as unwanted sound and is known to have several adverse effects on people, including hearing loss, speech and sleep interference, physiological responses, and annoyance. Although sound can be easily measured, the perception of noise and the physical response to sound complicate the analysis of its impact on people. People judge the relative magnitude of sound sensation in subjective terms such as "noisiness" or "loudness." Based on these known adverse effects of noise, the federal government, the State of California, and many local governments have established criteria to protect public health and safety and to prevent disruption of certain human activities.

The following are brief definitions of terminology used in this chapter:

- Sound. A disturbance created by a vibrating object, which, when transmitted by pressure waves through a medium such as air, is capable of being detected by a receiving mechanism, such as the human ear or a microphone.
- Noise. Sound that is loud, unpleasant, unexpected, or otherwise undesirable.
- **Decibel (dB).** A unitless measure of sound on a logarithmic scale.
- **A-Weighted Decibel (dBA).** An overall frequency-weighted sound level in decibels that approximates the frequency response of the human ear.

- Equivalent Continuous Noise Level (L_{eq}); also called the Energy-Equivalent Noise Level. The value of an equivalent, steady sound level which, in a stated time period (often over an hour) and at a stated location, has the same A-weighted sound energy as the time-varying sound. Thus, the L_{eq} metric is a single numerical value that represents the equivalent amount of variable sound energy received by a receptor over the specified duration.
- Statistical Sound Level (L_n). The sound level that is exceeded "n" percent of time during a given sample period. For example, the L₅₀ level is the statistical indicator of the time-varying noise signal that is exceeded 50 percent of the time (during each sampling period); that is, half of the sampling time, the changing noise levels are above this value and half of the time they are below it. This is called the "median sound level." The L₁₀ level, likewise, is the value that is exceeded 10 percent of the time (i.e., near the maximum) and this is often known as the "intrusive sound level." The L₉₀ is the sound level exceeded 90 percent of the time and is often considered the "effective background level" or "residual noise level."
- Day-Night Sound Level (L_{dn} or DNL). The energy-average of the A-weighted sound levels occurring during a 24-hour period, with 10 dB added to the sound levels occurring during the period from 10:00 p.m. to 7:00 a.m.
- Community Noise Equivalent Level (CNEL). The energy average of the A-weighted sound levels occurring during a 24-hour period, with 5 dB added from 7:00 p.m. to 10:00 p.m. and 10 dB from 10:00 p.m. to 7:00 a.m. For general community/environmental noise, CNEL and L_{dn} values rarely differ by more than 1 dB (with the CNEL being only slightly more restrictive, that is, higher than the L_{dn} value). As a matter of practice, L_{dn} and CNEL values are interchangeable and are treated as equivalent in this assessment.
- Sensitive Receptor. Noise- and vibration-sensitive receptors include land uses where quiet environments
 are necessary for enjoyment and public health and safety. Residences, schools, motels and hotels, libraries,
 religious institutions, hospitals, and nursing homes are examples.
- Peak Particle Velocity (PPV). The peak rate of speed at which soil particles move (e.g., inches per second)
 due to ground vibration.

Sound Fundamentals

Sound is a pressure wave transmitted through the air. It is described in terms of loudness or amplitude (measured in decibels), frequency or pitch (measured in Hertz [Hz] or cycles per second), and duration (measured in seconds or minutes). The standard unit of measurement of the loudness of sound is the decibel (dB). Changes of 1 to 3 dBA are detectable under quiet, controlled conditions and changes of less than 1 dBA are usually indiscernible. A 3 dBA change in noise levels is considered the minimum change that is detectable with human hearing in outside environments. A change of 5 dBA is readily discernable to most people in an exterior environment whereas a 10 dBA change is perceived as a doubling (or halving) of the sound.

The human ear is not equally sensitive to all frequencies. Sound waves below 16 Hz are not heard at all and are "felt" more as a vibration. Similarly, while people with extremely sensitive hearing can hear sounds as high as

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20,000 Hz, most people cannot hear above 15,000 Hz. In all cases, hearing acuity falls off rapidly above about 10,000 Hz and below about 200 Hz. Since the human ear is not equally sensitive to sound at all frequencies, a special frequency dependent rating scale is usually used to relate noise to human sensitivity. The A-weighted decibel scale (dBA) performs this compensation by discriminating against frequencies in a manner approximating the sensitivity of the human ear.

Noise is defined as unwanted sound, and is known to have several adverse effects on people, including hearing loss, speech and sleep interference, physiological responses, and annoyance. Based on these known adverse effects of noise, the federal government, the State of California, and many local governments have established criteria to protect public health and safety and to prevent disruption of certain human activities.

Sound Measurement

Sound intensity is measured through the A-weighted measure to correct for the relative frequency response of the human ear. That is, an A-weighted noise level de-emphasizes low and very high frequencies of sound similar to the human ear's de-emphasis of these frequencies.

Unlike linear units such as inches or pounds, decibels are measured on a logarithmic scale, representing points on a sharply rising curve. On a logarithmic scale, an increase of 10 dBA is 10 times more intense than 1 dBA, while 20 dBA is 100 times more intense, and 30 dBA is 1,000 times more intense. A sound as soft as human breathing is about 10 times greater than 0 dBA. The decibel system of measuring sound gives a rough connection between the physical intensity of sound and its perceived loudness to the human ear. Ambient sounds generally range from 30 dBA (very quiet) to 100 dBA (very loud).

Sound levels are generated from a source and their decibel level decreases as the distance from that source increases. Sound dissipates exponentially with distance from the noise source. This phenomenon is known as "spreading loss." For a single point source, sound levels decrease by approximately 6 dBA for each doubling of distance from the source. This drop-off rate is appropriate for noise generated by on-site operations from stationary equipment or activity at a project site. If noise is produced by a line source, such as highway traffic, the sound decreases by 3 dBA for each doubling of distance in a hard site environment. Line source noise in a relatively flat environment with absorptive vegetation decreases by 4.5 dBA for each doubling of distance.

Time variation in noise exposure is typically expressed in terms of a steady-state energy level equal to the energy content of the time varying period (called L_{eq}), or alternately, as a statistical description of the sound level that is exceeded over some fraction of a given observation period. For example, the L₅₀ noise level represents the noise level that is exceeded 50 percent of the time. Half the time the noise level exceeds this level and half the time the noise level is less than this level. This level is also representative of the level that is exceeded 30 minutes in an hour. Similarly, the L₂, L₈ and L₂₅ values represent the noise levels that are exceeded 2, 8, and 25 percent of the time or 1, 5, and 15 minutes per hour. These "L" values are typically used to demonstrate compliance for stationary noise sources with a city's noise ordinance, as discussed below. Other values typically noted during a noise survey are the L_{min} and L_{max}. These values represent the minimum and maximum root-mean-square noise levels obtained over the measurement period.

5. Environmental Analysis NOISE

Because community receptors are more sensitive to unwanted noise intrusion during the evening and at night, an artificial dBA penalty increase is added to quiet time (nighttime) noise levels in a 24-hour noise descriptor called the Community Noise Equivalent Level (CNEL) or Day-Night Noise Level (L_{dn}). The CNEL descriptor requires that an artificial increment of 5 dBA be added to the actual noise level for the hours from 7:00 pm to 10:00 pm and 10 dBA for the hours from 10:00 pm to 7:00 am. The L_{dn} descriptor uses the same methodology except that there is no artificial increment added to the hours between 7:00 and 10:00 pm. Both descriptors give roughly the same 24-hour level, with the CNEL being only slightly more restrictive (i.e., higher).

Psychological and Physiological Effects of Noise

Physical damage to human hearing begins at prolonged exposure to noise levels higher than 85 dBA. Exposure to high noise levels affects our entire system, with prolonged noise exposure in excess of 75 dBA increasing body tensions, and thereby affecting blood pressure, functions of the heart and the nervous system. In comparison, extended periods of noise exposure above 90 dBA could result in permanent hearing damage. When the noise level reaches 120 dBA, a tickling sensation occurs in the human ear even with short-term exposure. This level of noise is called the threshold of feeling. As the sound reaches 140 dBA, the tickling sensation is replaced by the feeling of pain in the ear. This is called the threshold of pain. A sound level of 190 dBA will rupture the eardrum and permanently damage the inner ear.

Vibration Fundamentals

Vibration is an oscillatory motion through a solid medium, such as the ground or a building. Vibration is normally associated with activities stemming from operations of railroads or vibration-intensive stationary sources but can also be associated with construction equipment such as jackhammers, pile drivers, and hydraulic hammers.

The way in which vibration is transmitted through the earth is called propagation. As vibration waves propagate from a source, the energy is spread over an ever-increasing area such that the energy level striking a given point is reduced with the distance from the energy source. This geometric spreading loss is inversely proportional to the square of the distance. The amount of attenuation provided by material damping varies with soil type and condition as well as the frequency of the wave.

As with airborne sound, annoyance with vibrational energy is a subjective measure, depending on the level of activity and the sensitivity of the individual. To sensitive individuals, vibrations approaching the threshold of perception can be annoying. Persons accustomed to elevated ambient vibration levels, such as in an urban environment, may tolerate higher vibration levels. Table 5.10-1, *Human Reaction to Typical Vibration Levels*, displays the human response and the effects on buildings resulting from continuous vibration in terms of various levels of peak particle velocity (PPV).

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Table 5.10-1 Human Reaction to Typical Vibration Levels

Vibration Level Peak Particle Velocity	Human Reaction	Effect on Buildings
0.006-0.019 in/sec	Threshold of perception, possibility of intrusion	Vibrations unlikely to cause damage of any type
0.08 in/sec	Vibrations readily perceptible	Recommended upper level of vibration to which ruins and ancient monuments should be subjected
0.10 in/sec	Level at which continuous vibration begins to annoy people	Virtually no risk of "architectural" (i.e., not structural) damage to normal buildings
0.20 in/sec	Vibrations annoying to people in buildings	Threshold at which there is a risk to "architectural" damage to normal dwelling – houses with plastered walls and ceilings
0.4–0.6 in/sec	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause "architectural" damage and possibly minor structural damage

5.10.1.2 REGULATORY BACKGROUND

State, and local laws, regulations, plans, or guidelines related to noise that are applicable to the Proposed Project are summarized in this section.

State

California Building Code

The State of California's noise insulation standards for nonresidential uses are codified in the California Code of Regulations, Title 24, Building Standards Administrative Code, specifically Part 11, California Green Building Standards Code (CALGreen). CALGreen noise standards are applied to new or renovation construction projects in California to control interior noise levels resulting from exterior noise sources. Proposed projects may use either the prescriptive method (Section 5.507.4.1) or the performance method (Section 5.507.4.2) to show compliance. Under the prescriptive method, a project must demonstrate transmission loss ratings for the wall and roof-ceiling assemblies and exterior windows when located within a noise environment of 65 dBA CNEL or higher. Under the performance method, a project must demonstrate that interior noise levels do not exceed 50 dBA L_{eq(1hr)}.

California State Land Use Compatibility Guidelines for Noise

The State of California has adopted State General Plan Guidelines designed to ensure that proposed land uses are compatible with the predicted future noise environment. At different exterior noise levels, individual land uses are identified as "clearly acceptable," "normally acceptable," "normally unacceptable," or "clearly unacceptable." A "conditionally acceptable" designation implies new construction or development should be undertaken only after a detailed analysis of the noise reduction requirements for each land use and needed noise insulation features are incorporated in the design. By comparison, a "normally acceptable" designation indicates that standard construction can occur with no special noise reduction requirements. The City of Santa

5. Environmental Analysis NOISE

Monica has adopted noise and land use compatibility standards in the General Plan Noise Element, which are discussed under local regulations.

Local

City of Santa Monica General Plan

The City's General Plan is primarily a policy document that sets goals concerning the community and gives direction to growth and development. In addition, it outlines the programs that were developed to accomplish the goals and policies of the General Plan.

Noise Element

The Noise Element provides guidance for comprehensive local programs to control and abate excessive noise and to protect residents from adverse noise impacts. The element provides information on the existing and projected noise environment and includes goals, objectives, policies and implementation programs to ensure an acceptable noise environment. The element also identifies criteria to be used by decision makers in evaluating the noise implications of proposed projects.

The City of Santa Monica has adopted noise and land use compatibility standards, which are summarized in Table 5.10-2, *Land Use and Noise Compatibility Matrix*.

Table 5.10-2 Land Use and Noise Compatibility Matrix

Proposed Land Use Categories			Compatible Land Use Zones CNEL					
Categories Uses			<55 55-60 60-65 65-70 70-75 75-80					
Desidential	Single Family, Duplex, Multiple Family	Α	Α	В	В	С	D	D
Residential	Mobile Home	Α	Α	В	С	С	D	D
Commercial Regional, District	nal, Hotel, Motel, Transient Lodging A		А	В	В	С	С	D
Commercial Regional, Village District, Special	Commercial Retail, Bank, Restaurant, Movie Theatre	А	А	А	А	В	В	С
Commercial Industrial Institutional	L Development Professional Offices City		Α	Α	В	В	С	D
Commercial Recreation Institutional Civic Center	Amphitheatre, Concert Hall Auditorium, Meeting Hall	В	В	С	С	D	D	D
Commercial Recreation	I Golf Course Go-Cart Track Equestrian		А	А	В	В	D	D
Commercial General, Special Industrial, Institutional	Automobile Service Station, Auto Dealership, Manufacturing, Warehousing, Wholesale, Utilities	А	А	А	А	В	В	В
Institutional General	Hospital, Church, Library, School Classroom, Day Care	А	Α	В	С	С	D	D

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Table 5.10-2 Land Use and Noise Compatibility Matrix

Proposed Land Use Categories				Compatible	Land Use CNEL	Zones		
Categories	Uses	<55	55-60	60-65	65–70	70–75	75–80	>80
	Parks	Α	Α	Α	В	С	D	D
Open Space	Golf Course, Cemeteries, Nature Centers, Wildlife Reserves, Wildlife Habitat	А	А	Α	Α	В	С	С
Agriculture	Agriculture	Α	Α	Α	Α	Α	Α	Α

Source: Santa Monica General Plan 1992.

The City of Santa Monica has adopted policies in support of: Goal N1, reducing noise where unacceptable to acceptable noise levels; Goal N2, protect and maintain those areas having acceptable noise environments; and Goal N3, provide sufficient information concerning the community noise levels so that noise can be objectively considered in land use planning decisions. The following policies are relevant to the Proposed Project:

- Policy 2. Incorporate noise considerations into land use planning decisions (as they apply to finished projects, not construction actions). These measures will be achieved through the following programs:
 - Establish acceptable limits of noise for various land uses throughout the community. Zoning changes should be consistent with the compatibility of the projected noise environment.
 - Ensure acceptable noise levels near schools, hospitals, convalescent homes, and other noise sensitive area.
 - Encourage acoustical mitigation design in new construction.
- Policy 3. Develop measures to control non-transportation noise impacts.
 - Adopt a revised Community Noise Ordinance to mitigate noise conflicts.
 - Improve enforcement of required noise mitigation measures in building design.
 - Establish and maintain coordination among the city agencies involved in noise abatement.
- Policy 4.The City shall develop measures to control construction noise impacts. The following shall be considered:
 - Clearly state the permitted hours of construction and expressly prohibit construction on Sunday.

Zone A: Clearly Compatible Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.

Zone B: Compatible with Mitigation New construction or development should be undertaken only after detailed noise analysis of the noise reduction requirements are made and need noise insulation feature in the design are determined. Conventional construction, with closed windows and fresh air supply systems or air conditioning, will normally suffice. Note that residential uses are prohibited with Airport CNEL greater than 65.

Zone C: **Normally Incompatible** New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of noise reduction requirements must be made and needed noise insulation features included in the design.

Zone D: Clearly Incompatible New construction or development should generally not be undertaken

5. Environmental Analysis NOISE

- Consider exempting the resident/builders in single family zones from the Sunday construction and
 maintenance ban provided such construction is limited to the hours specified in the Noise Ordinance
 or meets the noise limits set in the Noise Ordinance.
- During the environmental review of all projects, determine the proximity of the site to the established residential areas. If the project will involve pile driving, nighttime truck hauling, blasting, 24-hour pumping, or any other very high noise equipment, the environmental review shall include a construction noise alternative analysis. From this analysis specific mitigation measures shall be developed to mitigate potential noise impacts. This may include but not be limited to:
 - Requirements to use quieter albeit costlier construction techniques.
 - Notification of residences (homeowner and renters) of time, duration, and location of construction
 - Relocation of residents to hotels during noisy construction period.
 - Developer reimbursement to City for 24-hour on-site inspection to verify compliance with required mitigation.
 - Limit hours of operation equipment 15 dB above the noise ordinance to the hours of 10:00 a.m. to 4:00 p.m.
- The selection of the above measures should be determined on a project-by-project basis depending on type of equipment used and the proximity to established residential areas.

Santa Monica Municipal Code

The City of Santa Monica has established exterior noise standards to limit excessive noise from stationary sources. These standards are found in the Santa Monica Municipal Code (SMMC), Section 4.12.060, Exterior Noise Standards, and are summarized in Table 5.10-3, *Santa Monica Exterior Noise Standards*. The following noise exemptions from Section 4.12.030, Exemptions, are applicable to the Proposed Project:

- Activities conducted on public or private school grounds, including, but not limited to, school athletic and school entertainment events;
- Activities conducted on public property that is generally open to the public, including, but not limited to, streets, sidewalks, alleys, parkways, parks, and beaches.

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Table 5.10-3 Santa Monica Exterior Noise Standards

			Allowable Leq, dBA			
Noise Zone	Days	Time Interval	15-minute continuous level (L ₂₅) 5-minute continuous			
	Manday through Eriday	10:00 p.m. to 7:00 a.m.	50	55		
	Monday through Friday	7:00 a.m. to 10:00 p.m.	60	65		
ı	Saturday and Sunday	10:00 p.m. to 8:00 a.m.	50	55		
		8:00 a.m. to 10:00 p.m.	60	65		
П	All days of the week	10:00 p.m. to 7:00 a.m.	60	65		
	All days of the week	7:00 a.m. to 10:00 p.m.	65	70		
III	Any day	Anytime	70	75		

Notes: Noise Zone I: All property in a residential district established by Santa Monica Municipal Code. The Santa Monica Pier shall be excluded from this noise zone. Noise Zone II: All property in a nonresidential district established by Santa Monica Municipal Code.

Noise Zone II: All property in the industrial conservation district as established by Santa Monica Municipal Code.

In addition, for each Noise Zone, the allowable exterior equivalent noise level shall be reduced by 5 dBA for impulsive or simple tone noise or for noises consisting of speech or music. If the ambient noise level exceeds the allowable exterior noise level standard, the ambient noise level shall be the standard. No person shall create any noise or allow the creation of any noise that causes the equivalent noise level to exceed the noise standards or a maximum instantaneous (L_{max}) A-weighted, slow sound pressure level to exceed the noise standard plus 20 dBA for any period of time.

Construction Noise

Section 4.12.110 of the SMMC sets restrictions on demolition, excavation, grading, spray painting, construction, maintenance, or repair of buildings. The SMMC states that no person shall engage in any construction activity:

- Before 8:00 a.m. or after 6:00 p.m. on Monday through Friday, except that construction activities conducted by employees of the City of Santa Monica or public utilities while conducting duties associated with their employment shall not occur before 7:00 a.m. or after 6:00 p.m. on Monday through Friday.
- Before 9:00 a.m. or after 5:00 p.m. on Saturday.
- All day on Sunday.
- All day on New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, as those holidays have been established by the United States of America.

Construction activity shall not exceed the noise standards summarized in Table 5.10-3 by 20 dBA L_{eq} or 40 dBA L_{max} . Any construction that exceeds these noise standards shall occur between the hours of 10:00 am and 3:00 pm, Monday through Friday. Prior to the issuance of a building permit, all development projects located within 500 feet of any residential development or other noise-sensitive land uses must submit a list of equipment and activities required during construction. In particular, this list shall include the following:

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- Construction equipment to be used, such as pile drivers, jackhammers, pavement breakers, or similar equipment.
- Construction activities such as 24-hour pumping, excavation, or demolition.
- A list of measures that will be implemented to minimize noise impacts on nearby residential uses.

Section 4.12.120, Postage of Construction Signage, of the SMMC states that there shall be displayed at sites where work activities requiring a City permit are being conducted, a sign in English and Spanish reading substantially as follows: "Attention All Employees and Subcontractors. Santa Monica construction/demolition work times are: Monday through Friday, eight A.M. until six P.M.; Saturday nine A.M. until five P.M.; Sundays and holidays, no work permitted." In addition, the sign shall indicate the City telephone numbers where violations of this section can be reported, the location of the job site, and the permit number issued authorizing the work. Signs required by this section shall be continually placed prominently at the primary entrance to the worksite so that they are clearly visible to the public and to all employees, contractors, subcontractors and all other persons performing work at the site, so long as activity covered by this section is occurring. Each sign required to be displayed pursuant to this section shall be obtained from the Building and Safety Division. The Building and Safety Division shall charge for each sign a fee equal to the City's cost of printing the sign.

Section 4.12.130, Location, Screening and Noise Measurements of Mechanical Equipment, states that all development project applications must demonstrate compliance with or contain the following information:

- A list of all permanent mechanical equipment to be placed outdoors and all permanent mechanical equipment to be placed indoors which may be heard outdoors. All such equipment shall require a noise analysis to demonstrate compliance with Section 4.12.060 prior to the issuance of a building permit for the development project.
- Mechanical equipment shall not be located on the side of any building which is adjacent to a residential building on the adjoining lot unless it can be shown that the noise will comply with the requirements of Section 4.12.060. Roof locations may be used when the mechanical equipment is installed within a noise attenuating structure.
- Final approval of the location of any mechanical equipment will require a noise test to demonstrate compliance with Section 4.12.060. Equipment for the test shall be provided by the owner or contractor and the test shall be conducted by the owner or contractor. A copy of noise test results on mechanical equipment shall be submitted to the Community Noise Officer for review to ensure that noise levels do not exceed maximum allowable levels for the applicable noise zone.

Vibration

Section 4.12.070, Vibration, of the SMMC states that any ground vibration that is perceptible without instruments at any point on any property shall be unlawful. The perception threshold shall be presumed to be more than 0.05 inch per second root-mean-square (RMS) velocity. Vibration perceptibility pertains to the human response and is also known as vibration annoyance. However, vibration caused by construction activity, moving vehicles, trains, and aircraft are exempt.

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5.10.1.3 EXISTING CONDITIONS

Existing Noise Environment

The Proposed Project's Site is in a predominantly urbanized mixed-use residential area in Santa Monica, directly adjacent to Santa Monica Boulevard. The McKinley ES campus is located in a Noise Zone II, under Section 4.12.050, *Designated Noise Zones*, of the SMMC. Properties located in Noise Zone II include all nonresidential properties, as described in Table 5.10-3 above.

Noise within the Proposed Project's Site is associated with the existing on-site school uses, including outdoor student activity, circulation-related noise (during DOPU times), and property maintenance. Noise around the Proposed Project's Site is dominated by traffic noise along Santa Monica Boulevard and other local roadways. Noise generated by surrounding residential and urbanized uses, including health care facilities (Providence St. John's Health Center) and associated intermittent ambulance noise, also contribute to the overall noise environment.

Sensitive Receptors

Certain land uses are particularly sensitive to noise and vibration, including residences, hospitals, senior housing, schools, places of worship, and recreational areas. These uses are regarded as sensitive because they are where citizens most frequently engage in activities that are likely to be disturbed by noise, such as reading, studying, sleeping, resting, or quiet or passive recreation. Commercial and industrial uses are not particularly sensitive to noise but may still be evaluated in terms of vibration damage.

Students would remain on campus during construction activities. Therefore, on-site students and staff would be subject to temporary construction and are considered on-site noise receptors. The Proposed Project's Site is surrounded by single-family and multifamily homes to the north, east, and west. The closest sensitive residential receptors—as measured from the edge of the Proposed Project's Site—are approximately 20 feet to the southwest across 23rd Court (alley) and approximately 60 feet to the northeast across Chelsea Avenue. St. John Hospital medical facilities are approximately 70 feet southeast of the Proposed Project's Site across Santa Monica Boulevard. Further to the southwest at approximately 220 feet is the Providence Saint John's Health Center, which is considered a sensitive receptor.

Ambient Noise Monitoring

To determine baseline noise levels at different environments in the Proposed Project's area, ambient noise monitoring was conducted by PlaceWorks in May of 2022. Four short-term (15-minute) measurement locations were selected in coordination with the District and conducted around the Proposed Project's Site. All measurements were conducted Thursday, May 26, 2022, during regular school hours.

The primary noise source at all measurement locations is traffic noise, primarily from Santa Monica Boulevard, a heavily traveled road. School and general urban and residential activity (such as conversations on playgrounds, dogs, car doors shutting, etc.) also contributed to the overall noise environment. Meteorological conditions during the measurement period were favorable for outdoor sound measurements and were noted to be representative of the typical conditions for the season. Generally, conditions included clear skies with

temperatures varying between 65 to 69 degrees Fahrenheit (°F), with winds ranging between 4 and 10 miles per hour (mph). The sound level meter was equipped with a windscreen during all measurements.

The short-term sound level meter (Larson Davis LxT) used for noise monitoring satisfies the American National Standards Institute (ANSI) standard for Type 1 instrumentation. The short-term sound level meter was set to "slow" response and "A" weighting (dBA). The meter was calibrated prior to and after the monitoring period. All measurements were at least 5 feet above the ground and away from reflective surfaces. Short-term measurement locations are described below and shown on Figure 5.10-1, Approximate Noise Monitoring Locations, and results are summarized in Table 5.10-4, Short-Term Noise Measurement Summary.

- Short-Term Location 1 (ST-1) was next to 1325 23rd Court (residence). The measurement location was approximately 20 feet west of the nearest school property line. A 15-minute noise measurement began at 12:32 pm on Thursday, May 26, 2022. The noise environment is characterized primarily by school children playing and conversing at McKinley Elementary School. Noise levels generally ranged from 50 dBA to 55 dBA.
- Short-Term Location 2 (ST-2) was next to 2415 Arizona Avenue (residence). The measurement location was approximately 20 feet north of the nearest westbound travel lane centerline. A 15-minute noise measurement began at 11:45 am on Thursday, May 26, 2022. The noise environment is characterized primarily by traffic noise from Arizona Avenue. Traffic noise levels generally ranged from 58 dBA to 65 dBA.
- Short-Term Location 3 (ST-3) was along Chelsea Avenue at the intersection of Chelsea Avenue and Chelsea Place, approximately 25 feet east of the nearest northbound travel lane centerline. A 15-minute noise measurement began at 12:52 pm on Thursday, May 26, 2022. The noise environment is characterized primarily by traffic noise from Chelsea Avenue. Traffic noise levels generally ranged from 51 dBA to 60 dBA.
- Short-Term Location 4 (ST-4) was next to 1252 24th Street (residence). The measurement location was approximately 20 feet west of the nearest southbound travel lane centerline. A 15-minute noise measurement began at 12:09 pm on Thursday, May 26, 2022. The noise environment is characterized primarily by voices coming from the playground at McKinley Elementary School. Noise levels generally ranged from 45 dBA to 65 dBA.

Table 5.10-4 Short-Term Noise Measurement Summary

		15-minute Noise Level, dBA						
Monitoring Location	Description	L _{eq}	L _{max}	L _{min}	L ₂	L₃	L ₂₅	L ₅₀
ST-1	Next to 1325 23rd Court (residence) 05/26/2022, 12:32 pm	57.7	75.5	49.9	54.9	56.0	59.5	64.7
ST-2	Next to 2415 Arizona Avenue (residence) 05/26/2022,11:45 am	62.1	76.1	49.6	58.9	62.4	66.1	69.6
ST-3	At the intersection of Chelsea Avenue and Chelsea Place 05/26/2022, 12:52 pm	58.9	72.8	49.5	54.7	58.9	63.6	66.8
ST-4	Next to 1252 24th Street (residence). 05/26/2022, 12:09 pm	55.7	69.9	45.1	51.4	54.2	59.9	65.0

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Figure 5.10-1 - Approximate Noise Monitoring Locations

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5.10.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would result in:

- N-1 Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.
- N-2 Generation of excessive groundborne vibration or groundborne noise levels.
- N-3 For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, if the project would expose people residing or working in the project area to excessive noise levels.

The IS/NOP, included as Appendix B to this DEIR, substantiates that the impacts associated with the following thresholds would be less than significant; therefore, this impact will not be further addressed in this DEIR:

■ Threshold N-3

5.10.2.1 STATIONARY NOISE THRESHOLDS

As discussed above in *Regulatory Background*, the City's exterior noise standards for stationary sources are established in Section 4.12.060 of the SMMC (see Table 5.10-3). These standards are used as thresholds of significance for stationary noise sources associated with the Proposed Project.

5.10.2.2 CONSTRUCTION NOISE THRESHOLDS

The City of Santa Monica has prohibited hours for construction activities and has quantified construction noise limits. The SMMC states that construction noise shall not exceed either 20 dBA L_{eq} or 40 dBA L_{max} above the daytime residential exterior noise standard of 60 dBA L₂₅ (see Table 5.10-3). Table 5.10-5, *Santa Monica Construction Noise Standards*, shows the allowable construction noise standards with application of the 20 dBA and 40 dBA penalties added to Table 5.10-3, *Santa Monica Exterior Noise Standards*.

Table 5.10-5 Santa Monica Construction Noise Standards

			Level in dBA		
Noise Zone	Days	Time Interval	L_{eq}	L _{max}	
	Manday Friday	10:00 p.m. to 7:00 a.m.	70	90	
	Monday - Friday	7:00 a.m. to 10:00 p.m.	80	100	
ı	Caturday and Cunday	10:00 p.m. to 8:00 a.m.	70	90	
Salur	Saturday and Sunday	8:00 a.m. to 10:00 p.m.	80	100	
П	All days of the wook	10:00 p.m. to 7:00 a.m.	80	100	
II	All days of the week	7:00 a.m. to 10:00 p.m.	85	105	
III	Any day	Anytime	90	110	

Notes: Noise Zone I: All property in a residential district established by Santa Monica Municipal Code. The Santa Monica Pier shall be excluded from this noise zone. Noise Zone II: All property in a nonresidential district established by Santa Monica Municipal Code.

Noise Zone II: All property in the industrial conservation district as established by Santa Monica Municipal Code.

5.10.2.3 TRANSPORTATION NOISE THRESHOLDS

A project will normally have a significant effect on the environment related to traffic noise if it would substantially increase the ambient noise levels for adjoining areas. Most people can detect changes in sound levels of approximately 3 dBA under normal, quiet conditions, and changes of 1 to 3 dBA are detectable under quiet, controlled conditions. Changes of less than 1 dBA are usually indiscernible. A change of 5 dBA is readily discernible to most people in an exterior environment.

Implementation of the Proposed Project would result in the addition of 10 parking spaces to accommodate existing student and staff parking needs. It is anticipated that the Proposed Project would not result in an increase in students or faculty. In addition, primary access to the school site would remain via Chelsea Avenue. Therefore, traffic noise impacts are discussed qualitatively.

5.10.2.4 VIBRATION THRESHOLDS

The City of Santa Monica does not have quantified limits for vibration damage. The Federal Transit Administration (FTA) provides acceptable groundborne vibration criteria for various types of buildings, which are used in this analysis to determine impact significance. Structures amplify groundborne vibration, and wood-frame buildings, such as typical residential structures, are more affected by ground vibration than heavier, engineered buildings. The FTA vibration criteria are summarized by building category in Table 5.10-6, *Groundborne Vibration Criteria: Architectural Damage.*

Table 5.10-6 Groundborne Vibration Criteria: Architectural Damage

	Building Category	PPV (in/sec)
l.	Reinforced concrete, steel, or timber (no plaster)	0.5
II.	Engineered concrete and masonry (no plaster)	0.3
III.	Non-engineered timber and masonry buildings	0.2
IV.	Buildings extremely susceptible to vibration damage	0.12
Source:	FTA 2018. eak particle velocity	0.12

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5.10.2.5 THE PROPOSED PROJECT'S DESIGN FEATURES

The Proposed Project would include features that would reduce noise:

■ **PDF N-1.** During construction activities in proximity to sensitive receptors, a sound wall will be provided along Chelsea Avenue and a portion of Arizona Avenue during various phases of construction to attenuate construction noise.

5.10.3 Environmental Impacts

The following impact analysis addresses thresholds of significance for which the Initial Study/Notice of Preparation disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.10-1: Construction activities would result in temporary noise increases in the vicinity of the Proposed Project in excess of existing established standards. Operational activities would not result in permanent or temporary increase in ambient noise levels in excess of existing established standards. [Threshold N-1]

Construction

Two types of short-term noise impacts could occur during construction: (1) mobile-source noise from transport of workers, material deliveries, and debris and soil haul and (2) stationary-source noise from use of construction equipment. Existing sensitive receptors on-site and surrounding the Proposed Project's Site would be exposed to elevated ambient noise levels from the Proposed Project—related construction activity. The Proposed Project's construction is anticipated to be completed within four years over three phases. The school would remain operational throughout all construction activities. As described in the Section 3, *Project Description*, Phase 1 is anticipated to begin in the summer of 2023, Phase 2 in the summer of 2025, and Phase 3 in the summer of 2028. The amount of construction noise experienced over this duration would vary greatly, depending on the phase and type of construction activities undertaken at that time.

The construction for Phase 1 would occur over approximately 18 months and include grading and excavation, trenching for site utilities and irrigation, building construction, architectural coatings, driveway and walkway construction, landscaping, and parking lot improvements. The construction for Phases 2 and 3 is anticipated to occur over approximately 18 months and 21 months, respectively. As described above in PDF N-1, the District would ensure that temporary sound walls are in place when construction activities would occur near off-site sensitive receptors off Chelsea Avenue and Arizona Avenue.

The SMMC Section 4.12.110(a) limits the hours of construction to between 8:00 am and 6:00 pm on weekdays and 9:00 am to 5:00 pm on Saturday, and prohibits construction on Sundays and holidays. The District would be required to follow the daytime construction noise standards, as shown in Table 5.10-5.

Construction Vehicles

The transport of construction workers and materials to and from the Proposed Project's Site would incrementally increase noise levels along site access roadways. Individual construction vehicle pass-by trips may create momentary noise levels of up to 85 dBA (L_{max}) at 50 feet from the vehicle, but these occurrences would generally be infrequent and short lived. A maximum of worker and vendor trips would occur during Phase 2 and Phase 3. Approximately 46 daily worker and vendor trips would be generated during overlapping building and asphalt demolition, debris haul, and site preparation. A maximum of 6 daily haul truck trips would be generated during Phase 1 building and asphalt debris haul over a 33-workday period. Site access would be primarily along Santa Monica Boulevard and Chelsea Avenue. The lowest existing average daily traffic on these road segments is 1,754 along Chelsea Avenue (Fehr & Peers 2021). The addition of construction trips and haul trips would result in a temporary noise increase of less than 0.2 dBA CNEL, which would not be substantial or permanent. Therefore, construction-vehicle noise impacts would be considered **less than significant**, and no mitigation measures are necessary.

Construction Equipment

Noise generated by on-site operating construction equipment is based on the type of equipment used, its location relative to sensitive receptors, and the timing and duration of noise-generating activities. Each stage of construction involves different kinds of equipment and has distinct noise characteristics. Noise levels from construction activities are typically dominated by the loudest equipment. The dominant equipment noise source is typically the engine, although work-piece noise (such as dropping of materials) can also be noticeable. During construction activities in proximity to sensitive receptors, a sound wall will be provided along Chelsea Avenue and a portion of Arizona Avenue during various phases of construction to attenuate construction noise.

The noise produced at each construction stage is determined by combining the L_{eq} contributions from each piece of equipment used at a given time, while accounting for the ongoing time-variations of noise emissions. Heavy equipment, such as a dozer or a loader, can have maximum, short-duration noise levels of up to 85 dBA at 50 feet. However, overall noise emissions vary considerably depending on the specific activity performed at any given moment. Noise attenuation due to distance, the number and type of equipment, and the load and power requirements to accomplish tasks at each construction phase would result in different noise levels from construction activities at a given receptor. Since noise from construction equipment is intermittent and diminishes at a rate of at least 6 dBA per doubling of distance (conservatively ignoring other attenuation effects from air absorption, ground effects, and shielding effects), the average noise levels at noise-sensitive receptors could vary considerably, because mobile construction equipment would move around the site with different loads and power requirements.

Construction Noise Impacts: Off-Campus Receptors

As stated previously, the Proposed Project is assumed to be completed within three developmental phases with each phase concentrating in different areas throughout the Proposed Project's Site. Phase 1, 2 and 3 all have the same activity phases (e.g., site preparation, demolition, grading) and same construction equipment mix based on CalEEMod modeling output defaults. Therefore, the modeled construction noise levels are consistent through all three developmental phases. Average noise levels from the Proposed Project-related construction

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activities are calculated by modeling the three loudest pieces of equipment associated with the activity phase closest to the surrounding sensitive receptors, regardless which phase it is in, because as stated above, repeated activities in Phases 1, 2, and 3 have the same equipment mix. All site preparation, grading, and fine grading activities occur throughout the Proposed Project's Site. Thus, average noise levels associated with phases that employ mobile equipment (e.g., site preparation, rough grading, and fine grading) were measured from the acoustic center of these activities and on average would be approximately within 150 feet from the nearest sensitive receptors to the north, east, south and west of the Proposed Project's Site. Building and asphalt demolition activity is measured from the center of proposed demolition to the nearest receptors. Similarly, construction noise from paving activities is modeled from the center of proposed parking areas, which are the closest to sensitive receptors. Construction equipment for building construction and architectural coating is modeled from the edge of the proposed building to the nearest sensitive receptors. Lastly, utility trenching and landscaping finishing typically occur along the edge of projects. Therefore, it is assumed that it could occur within 100 feet from the nearest sensitive receptors to the north and south across Arizona Boulevard and Santa Monica Boulevard, respectively, and within 50 feet from receptors across 23rd Court and Chelsea Avenue.

The Proposed Project's expected construction equipment mix was categorized by construction activity using the Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM). The associated, aggregate sound levels—grouped by construction activity—are summarized in Table 5.10-7, *Project-Related Construction Noise Levels, dBA Leq.* RCNM modeling input and output worksheets are included in Appendix J.

Construction activities would not exceed the SMMC daytime construction noise limit of 80 dBA L_{eq} during weekdays and weekends (see Table 5.10-5). Even though construction noise would not exceed established thresholds, PDF-N-1 would be implemented, which requires the District to ensure that temporary sound walls are in place when construction activities would occur nearest to off-site sensitive receptors (off Chelsea Avenue and Arizona Avenue). The sound wall should be built with materials that would provide a minimum 5 dBA reduction to help alleviate the noise levels that reach the FTA criterion peak limit for the residences to the west across 23rd Court. As a rule of thumb, any material weighing 20 kg/m² (4 lbs./ft²) or more has a transmission loss of at least 20 dBA. Such material would be adequate for a noise reduction of at least 10 dBA due to diffraction. Note that a weight of 20 kg/m² can be attained by lighter and thicker, or heavier and thinner materials. The greater the density of the material, the thinner the material may be. Transmission loss also depends on the stiffness of the barrier material and frequency of the source. (FHWA 2017). Therefore, construction-equipment noise impacts at off-campus sensitive receptors are considered **less than significant**.

Table 5.10-7 Proposed Project-Related Construction Noise, dBA Leq

		Nearest Off-Site Receptors					
Construction Activity Phase	RCNM Reference Noise Level	Residences to the North	Residences to the East	Medical Offices to the South	Residence to the West		
Distance in feet	50	100	100	150	60		
Building and Asphalt Demo	81	75	75	71	79		
Distance in feet	50	150	150	150	150		
Site Preparation	79	69	69	69	69		
Rough Grading	85	75	75	75	75		
Fine Grading	85	75	75	75	75		
Distance in feet	50	85	100	210	65		
Building Construction	83	78	76	70	80		
Architectural Coating	74	69	68	61	71		
Distance in feet	50	255	90	500	60		
Paving	79	65	74	59	77		
Distance in feet	50	100	50	100	50		
Utility Trenching	77	71	77	71	77		
Finish and Landscaping	77	71	77	71	77		
Maximum dBA	Leq	78	77	75	80		
Exceeds Leq Thres	shold?	No	No	No	No		

Notes: Calculations performed with the FHWA RCNM software are included in Appendix J.

As shown in Table 5.10-8, *Proposed Project Related Construction Noise, dBA L_{max}*, Proposed Project-related construction noise would not exceed any of the SMMC L_{max} construction noise thresholds at surrounding sensitive receptors. Therefore, maximum construction noise levels (L_{max}) would be **less than significant**.

Table 5.10-8 Proposed Project-Related Construction Noise, dBA Lmax

		Nearest Off-Site Receptors					
Construction Activity Phase	RCNM Reference Noise Level	Residences to the North	Residences to the East	Medical Offices to the South	Residence to the West		
Distance in feet	50	100	100	150	60		
Building and Asphalt Demo	81	75	75	71	79		
Distance in feet	50	150	150	150	150		
Site Preparation	80	70	70	70	70		
Rough Grading	85	75	75	75	75		
Fine Grading	85	75	75	75	75		
Distance in feet	50	85	100	210	65		
Building Construction	84	79	78	72	82		
Architectural Coating	78	73	72	66	76		
Distance in feet	50	255	90	500	60		
Paving	80	66	75	60	78		
Distance in feet	50	100	50	100	50		

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Table 5.10-8 Proposed Project-Related Construction Noise, dBA L_{max}

		Nearest Off-Site Receptors				
Construction Activity Phase	RCNM Reference Noise Level	Residences to the North	Residences to the East	Medical Offices to the South	Residence to the West	
Utility Trenching	81	75	81	75	81	
Finish and Landscaping	81	75	81	75	81	
Maximum dBA	L _{max}	79	81	75	82	
Exceeds L _{max} Threshold?		No No No			No	

Notes: Calculations performed with the FHWA RCNM software are included in Appendix J.

Construction Noise Impacts: On-Campus Receptors

During the Proposed Project's construction, students would remain on campus in the existing facilities. Therefore, students would potentially be exposed to construction activity noise during school hours. Typical exterior-to-interior noise attenuation for standard building construction is 25 dBA with windows closed. As shown in Table 5.10-6, construction could generate exterior noise levels of up to 85 dBA L_{eq} at 50 feet. Construction activities would generally occur within 25 to 50 feet of operational classrooms. At 25 feet, noise levels would attenuate to 91 dBA L_{eq}. Therefore, interior noise levels could reach up to 66 dBA L_{eq} with windows closed. Construction could substantially increase interior noise levels, which would disturb the learning environment; the speech interference level at a distance of 12 feet with a normal to raised voice is 55 dBA to 60 dBA (ToolBox 2005). However, as explained below, incorporating **Mitigation Measure N-1**, impacts would be reduced to **less than significant**.

Stationary Noise

Mechanical Equipment/HVAC

Heating, ventilation, and air conditioning (HVAC) systems would be installed at the two new proposed buildings. The nearest sensitive receptors to the proposed portable classrooms are approximately 77 feet to the north from the new two-story building for T-K/kindergarten and elementary classrooms to be developed during Phase 3. Typical HVAC equipment generates noise levels up to 72 dBA at distance of 3 feet. At 77 feet, noise levels would attenuate to 44 dBA or less and would not exceed the City's exterior nighttime and daytime noise standard of 50 and 60 dBA, respectively, for residential zones. Therefore, operational noise impacts related to stationary noise sources would be **less than significant**.

Outdoor Recreation

The Proposed Project would result in the reconfiguration of outdoor playfield and hardcourts. The Proposed Project would not result in an increase in students, and the school's hours of operation would not change. Outdoor activities during school hours and after school (through permit) would not change. The Proposed Project does not propose any outdoor amplification, such as a public address system. Therefore, the reconfiguration of the outdoor playfields and hardcourts would not substantially increase noise levels above existing conditions. In addition, per Section 4.12.030, Exemptions, of the SMMC, activities conducted on public

or private school grounds are exempt from the SMMC exterior noise standards. Therefore, noise impacts resulting from outdoor recreation during operation would be **less than significant**.

Traffic Noise

The Proposed Project would not result in an increase in students and staff. The Proposed Project would result in a net increase of 10 parking spaces to accommodate existing student and staff parking needs. The proposed circulation changes would reconfigure DOPU, and the school would continue to be accessed primarily via Chelsea Avenue. Additionally, the Proposed Project would develop a dedicated DOPU lane within the Proposed Project's Site's boundary, compared to existing conditions where DOPU activity occurs on the curb of Chelsea Avenue. Thus, the Proposed Project would increase the distance of these activities from off-site sensitive receptors, thereby reducing the noise levels slightly over existing conditions for DOPU activities. There are no planned roadway improvements associated with the Proposed Project, and the distribution of existing trips would not be significantly altered. The Proposed Project would not result in a significant change in long-term traffic volumes. Therefore, traffic noise increases during operation of the Proposed Project would be **less than significant**.

Impact 5.10-2: Temporary construction activities would potentially create excessive groundborne vibration and groundborne noise at sensitive receptors. [Threshold N-2]

Potential vibration impacts associated with development projects are usually related to the use of heavy construction equipment during the demolition and grading phases. Construction can generate varying degrees of ground vibration, depending on the construction procedures and equipment. The effect on buildings in the vicinity varies depending on soil type, ground strata, and receptor-building construction. The effects from vibration can range from no perceptible effects at the lowest vibration levels, to low rumbling sounds and perceptible vibrations at moderate levels, to slight structural damage at the highest levels. Vibration from construction activities rarely reaches the levels that can damage structures.

Construction Vibration Impacts: Off-Site Receptors

For reference, a peak particle velocity of 0.2 in/sec PPV is used as the limit for nonengineered timber and masonry buildings (which would apply to the surrounding residential structures) (FTA 2018). Table 5.10-9, *Vibration Impact Levels for Typical Construction Equipment*, shows vibration levels for typical construction equipment at a reference distance of 25 feet and at the nearest sensitive-receptor buildings in either direction of the Proposed Project's Site. As shown in Table 5.10-9, construction vibration could exceed the threshold of 0.2 in/sec PPV at a distance of 25 feet. At distances greater than 25 feet vibration levels would be less than 0.2 in/sec PPV. Because vibration damage is measured in instantaneous peak particle velocity, distances are measured from the edge of the Proposed Project's Site to the nearest building façade. The nearest building structure to construction activity, as measured from the edge of the Proposed Project's Site, are residences 20 feet to the west. At that distance, vibration associated with paving and use of a vibratory roller could reach up to 0.293 in/sec PPV. Therefore, vibrational impacts would be potentially significant. As explained below, with implementation of **Mitigation Measure N-2**, vibration impacts would be reduced to **less than significant**.

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Table 5.10-9 Vibration Impact Levels for Typical Construction Equipment

		in/sec PPV						
Equipment	Reference levels at 25 feet	Residences 85 feet North	Residences 60 feet East	Medical Offices 75 feet South	Residences 20 feet West			
Vibratory Roller	0.21	0.033	0.056	0.040	0.293			
Static Roller	0.05	0.008	0.013	0.010	0.070			
Large Bulldozer	0.089	0.014	0.024	0.017	0.124			
Caisson Drilling	0.089	0.014	0.024	0.017	0.124			
Loaded Trucks	0.076	0.012	0.020	0.015	0.106			
Jackhammer	0.035	0.006	0.009	0.007	0.049			
Small Bulldozer	0.003	0.000	0.001	0.001	0.004			

Sources: FTA 2018; New Zealand Transport Agency 2012.

Note: Distances measured from the edge of construction site to the nearest receptor building façade.

Construction Vibration Impacts: On-Campus Historical Receptors

The Proposed Project's Site includes on-site historical resources (see Figure 3-6) that would be susceptible to vibration impacts. The FTA vibration damage criterion for historical structures is 0.12 in/sec PPV, which this analysis uses as the limit to identify impact significance. However, all construction equipment that is anticipated to be used within 25 feet of these historical resources would generate vibration levels similar to those identified in Table 5.10-9 and would not involve the use of a vibratory roller. Therefore, vibration levels would be less than 0.12 in/sec PPV at the historical structural facades. Impacts would be less than significant.

5.10.4 Mitigation Measures

Impact 5.10-1

N-1

The Santa Monica-Malibu Unified School District construction contract bid shall require the chosen construction contractor(s) to prepare a Construction Noise Control Plan. The details of the Construction Noise Control Plan shall be included as part of the permit application drawing set and as part of the construction drawing set. The Construction Noise Control Plan shall include but not be limited to:

- During the entire active construction period, equipment and trucks used for Project construction shall utilize the best available noise control techniques (e.g., improved mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures, acoustically attenuating shields or shrouds).
- The District shall require the contractor to use impact tools (e.g., jack hammers and hoe rams) that are hydraulically or electrically powered wherever such alternatives are available. Where the use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used along with external noise jackets on the tools.

- During the entire active construction period, stationary noise sources shall be located as
 far from sensitive receptors as possible, and they shall be muffled and enclosed within
 temporary sheds, insulation barriers, or other measures.
- During the entire active construction period, noisy operations shall be combined so that they occur in the same time period because the total noise level produced would not be significantly greater than the level produced if the operations were performed separately (and the noise would be of shorter duration).
- Signs shall be posted at the job site entrance(s), within the on-site construction zones, and along queueing lanes (if any) to reinforce the prohibition of unnecessary engine idling. All other equipment shall be turned off if not in use for more than 5 minutes.
- During the entire active construction period and to the extent feasible, the use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only. The construction manager shall use smart back-up alarms, which automatically adjust the alarm level based on the background noise level or switch off back-up alarms and replace with human spotters in compliance with all safety requirements and laws.
- For on-site receptors, erect a fence with sound blankets at least 8 feet tall in the immediate proximity between the construction perimeter and active classrooms to block the line of site during school hours. The blanketed fence shall not have any gaps between blankets or between the blankets and the ground.

Impact 5.10-2

N-2 Vibratory compaction that is within 25 feet of any surrounding residential structure shall use a static roller in lieu of a vibratory roller. Specifically, use of a static roller is predicted to generate vibration levels of approximately 0.05 in/sec PPV at a distance of 25 feet (New Zealand Transport Agency 2012). At a distance greater than 25 feet, a vibratory roller would no longer exceed 0.20 in/sec PPV.

5.10.5 Level of Significance After Mitigation

Impact 5.10-1

With the implementation of **Mitigation Measure N-1**, noise from construction at the nearby impacted classrooms with active learning would be reduced to a less than significant impact. Implementation of **Mitigation Measure N-1** would reduce noise levels by at least 6 dBA with the use of the best available noise control techniques, specifically the use of proper engine mufflers. A study prepared for the US Department of Transportation found that in cases where a particular piece of equipment either does not have or has a very poor muffler, the application of a good muffler will reduce the overall noise by 6 to 12 dBA (Toth 1979). The construction equipment modeled is assumed to not have any mufflers or sound-attenuating devices installed. Thus, with the 6 dBA reduction in noise levels from mufflers, on-site receptors would face noise levels of

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60 dBA at 25 feet. With the implementation of a sound blanket between the line of site of the construction area and the nearest active classroom, there would be at least 12 dBA additional reduction in noise (Netwall 2023). This would reduce impacts to on-site active classrooms below the threshold for speech disturbance—55 dBA to 60 dBA—and therefore not disturb the learning environment.

Impact 5.10-2

With the implementation of **Mitigation Measure N-2**, vibration impacts from construction at nearby sensitive receptors would be reduced to a less than significant impact. Using a static roller in lieu of a vibratory roller at the edge of the Proposed Project's Site closest to the sensitive receptors 20 feet to the west would reduce vibration to about 0.07 in/sec PPV compared to 0.293 in/sec PPV. Impacts would be less than the FTA criterion of 0.2 in/sec PPV for nonengineered timber and masonry buildings (i.e., the surrounding residential structures).

The mitigation measures identified above would reduce potential impacts associated with noise and vibration to a level that is **less than significant**. Therefore, no significant unavoidable adverse impacts relating to noise remain.

5.10.6 Cumulative Impacts

If construction of the Proposed Project were to overlap with cumulative projects in the vicinity, construction noise could result in a significant cumulative construction noise impact. Typically, if there are no planned and approved projects within 500 feet of the Proposed Project, there is no cumulative construction noise impact. Construction noise is greatly reduced at distances of 500 feet or more in an urban and built-out environment.

There are two planned and approved projects within 500 feet of the Proposed Project's Site at 1328 22nd Street and 2121 Santa Monica Boulevard. The planned and approved projects are approximately 220 feet and 450 feet, respectively, from the nearest sensitive receptors to both the Proposed Project and planned and approved projects. As described above, the closest sensitive residential receptors—as measured from the edge of the Proposed Project's Site—are approximately 20 feet to the southwest across 23rd Court (alley) and approximately 60 feet to the northeast across Chelsea Avenue. Table 5.10-10, *Cumulative Construction Noise Levels*, estimates the cumulative construction noise at the nearest noise sensitive receptors with a reasonable assumption that construction noise associated with the planned and approved projects could reach up to 85 dBA at 50 feet.

Based on the noise levels in Table 5.10-10 and the attenuation from distances between the Proposed Project, 1328 22nd Street, 2121 Santa Monica Boulevard, and the nearest receptors, it is calculated that the cumulative construction noise increase would be 1 dBA at the nearest sensitive receptors. For reference, an increase of 3 dBA is considered the minimum increase required for the human ear to detect under normal, quiet conditions. Therefore, an increase of 1 dBA would not be considered cumulatively significant.

Table 5.10-10 Cumulative Construction Noise Levels

Nearest Receptors	Project- Related Construction Noise Levels (L1)	Approved Project at 1328 22nd Street (L2)	Approved Project at 1328 22nd Street (L3)	Cumulative Construction Noise Level ¹	Cumulative Construction Noise Increase dBA Leq
Residences west of Proposed Project	80 dBA	70 dBA	63 dBA	81 dBA ²	1 dBA

Notes: Decibels are rounded to the nearest whole number.

5.10.7 References

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¹ Formula for cumulative construction noise: L1+L2+L3= 10*Log10(10^L1/10 + 10^L2/10+10^L3/10).

² 10*Loq10(10^8.0+ 10^7.0+ 10^63.0) = 81 dBA.

5.11 RECREATION

This section of the Draft Environmental Impact Report (DEIR) evaluates the McKinley Elementary School Campus Master Plan Project's (Proposed Project) potential impacts on public parks and recreational facilities.

A California Environmental Quality Act (CEQA) scoping meeting was conducted on January 31, 2023 where verbal comments were received in response to the Initial Study/Notice of Preparation (IS/NOP) regarding the potential impacts to recreational facilities at the McKinley Elementary School (McKinley ES) campus. In addition, written comments were received regarding the potential impacts to recreational facilities on the campus. These comments are considered in this section below. The IS/NOP and all scoping comment letters are included as Appendices B and C of this document.

5.11.1 Environmental Setting

5.11.1.1 REGULATORY BACKGROUND

State and local laws, regulations, plans, or guidelines related to public parks and recreation facilities that are applicable to the Proposed Project are summarized in this section.

State

Quimby Act of 1975

The Quimby Act of 1975 (California Government Code Section 66477) requires the dedication of land and/or in-lieu fees for public park and recreational purposes as a condition for approval of a tentative map or parcel map. The act establishes procedures that can be used by local jurisdictions to reserve land for neighborhood and community parks and recreational facilities. It allows cities and counties to require up to five acres of park for every 1,000 residents.

Mitigation Fee Act

The California Mitigation Fee Act, Government Code sections 66000, et seq., allows cities to establish fees which would be imposed upon development projects for the purpose of mitigating the impact that the development projects would have on the City's ability to provide specified public facilities. In order to comply with the Mitigation Fee Act the City must follow four primary requirements: 1) Make certain determinations regarding the purpose and use of a fee and establish a nexus or connection between a development project or class of project and the public improvement being financed with the fee; 2) Segregate fee revenue from the General Fund in order to avoid commingling of capital facilities fees and general funds; 3) For fees that have been in the possession of the City for five years or more and for which the dollars have not been spent or committed to a project the City must make findings each fiscal year describing the continuing need for the money; and 4) Refund any fees with interest for developer deposits for which the findings noted above cannot be made.

California Public Park Preservation Act

The primary instrument for protecting and preserving parkland is California's Public Park Preservation Act of 1971 (Public Resources Code). Under the act, cities and counties may not acquire any real property that is in use as a public park for any nonpark use unless compensation, land, or both are provided to replace the parkland acquired. This ensures no net loss of parkland and facilities.

Local

City of Santa Monica Municipal Code

Chapter 9.67 Parks and Recreation Development Impact Fee Program

The purpose of this Chapter of the Municipal Code is to implement the goals, objectives, and policies of the City of Santa Monica's Open Space Element and Parks and Recreation Master Plan when new development is constructed within the City limits. Imposing a fee that is reasonably related to the burdens on and increased demand for the City's parks and recreation facilities created by new development will assist the City in constructing the required capital improvements to support the fulfillment of these goals, objectives, and policies. City of Santa Monica General Plan

Land Use and Circulation Element

The City of Santa Monica Land Use and Circulation Element (LUCE) was adopted July 6, 2010 and revised July 24, 2015. The LUCE establishes the City's land use, urban design, and transportation vision. The following goals and policies related to park and recreational facilities are relevant to the Proposed Project (City of Santa Monica, 2015).

General - City wide Park and Recreational goal and policies

Goal LU4: Complete Sustainable Neighborhoods. Create complete neighborhoods that exemplify sustainable living practices with open spaces, green connections, diverse housing, local employment, and local-serving businesses that meet the daily needs of residents and reduce vehicle trips and GHG emissions.

- Policy LU-4.1. Active Centers. Create active neighborhood districts that cluster services, goods, and cultural and recreational uses within walking distance of residences to create a focus for community activity and an active environment that can sustain local uses.
- Policy LU-4.6. Open Space. Provide open space and green connections near residences that are part of
 an expanding and comprehensive system of passive and active open space and complete street design
 emphasizing interconnectivity, recreation, and gathering spaces.

Community enrichment – Citywide Goals and Policies

Goal CE-1: Expand the amount, quality, diversity and interconnectivity of parks, open spaces and recreational facilities throughout the city.

Policy CE-1.8. Seek to improve and expand sports and recreational facilities throughout the City.

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■ Policy CE-1.9. Continue to maintain a diverse range of recreational facilities, offering residents of all ages affordable and safe access to high-quality recreational opportunities.

Goal CE-7: Create convenient and Safe opportunities for physical activity for residents of all ages and income levels.

- Policy CE-7.1. Promote land use patterns and transportation decisions that enable all residents to walk and bicycle to meet their daily needs.
 - Increase the amount and distribution of park and recreational space, and provide clear connections between facilities.

Goal CE-12: Support the SMMUSD and Santa Monica College capital planning and implementation in recognition of their important role in the City.

 Policy CE-12.1. Encourage implementation of the SMMUSD's Facilities Master Plan and provide guidance based on LUCE principles, including green building, shared parking, and improved access to open spaces and cultural facilities.

Goal CE-13: Maximize the community benefit of educational and City facilities through coordinated planning and shared use.

Policy CE-13.1. Explore with the SMMUSD possible coordinated facility development or shared use opportunities, such as coordinated shared use planning between the Civic Center area and Santa Monica High School, including possible shared athletic and cultural facilities, and shared use planning between the Memorial Park Activity Center Overly and the school district headquarters.

Goal CE-16: Support lifelong learning through land use and transporting measures that offer physical facilities and program materials.

Policy CE-16.3. Continue to partner with SMMUSD and other organizations to transform schools into "learning communities" that offer preschool, childcare and early education, after school enrichment programs, after school sports and recreation programs, health services, social services and adult education at local schools that are accessible to people of all ages and abilities.

Open Space Element

The City of Santa Monica Open Space Element was adopted March 1997. The Open space element establishes the long-range vision for the future development of parks and open spaces within the city of Santa Monica (Santa Monica 1997). The following objectives and policies related to park and recreational facilities relevant to the entire City and Proposed Project.

Objective 1: Develop and maintain a diversified and balanced system of high-quality open space.

■ **Policy 1.1.** Preserve existing public open space.

 Policy 1.2. Provide opportunities for the enjoyment of open space within every Santa Monica Neighborhood.

Objective 2: Expand the open space through use of public properties.

- Policy 2.2. Expand open space tole through shared use of certain facilities.
- Policy 2.3. Improve school sites as public open space.

5.11.1.2 EXISTING CONDITIONS

City Parks and Recreational Facilities

The City of Santa Monica Community Services provides parks and recreational programs and services to Santa Monica Residents of all ages. The City of Santa Monica operates and maintains 32 parks, a total of approximately 130 acres (Santa Monica 2022). Parks located near the campus include Schader Park, Park Drive Park, Douglas Park, Colorado Center Park, Memorial Park, and Virginia Avenue Park, which are approximately 0.08, 0.09, 0.15, 0.18, 0.63, and 0.80, miles away, respectively.

School Recreational Facilities

The existing athletic facilities at the school are available for community use through the Civic Center Act and joint use agreement between the District and the City. When the school facilities are not in use and are not scheduled for school-sponsored or other District-related events, certain community organizations and members are permitted to use school facilities for their events by obtaining a Civic Center Permit from the SMMUSD. Permitted events may include community and/or city use of the playfields, common areas, and classrooms, as permitted in the 2022 "Master Facility Use Agreements with the Santa Monica-Malibu Unified School" (City of Santa Monica 2022a).

Recreational activities that occur on McKinley ES through the Civic Center Permit during non-school hours include the American Youth Soccer Organization (AYSO), Childcare Recreation Enrichment Sports Together (CREST) enrichment and camps, Summer Adventure, School Age Programs (SAP), P.S Arts (Visual Arts), playground access and a small learning garden (Santa Monica 2023). As shown in Figure 5.11-1, Existing Recreational Facilities, the existing campus has a total of 3.82 acres of playgrounds, fields and open space; with 123,275 square feet of playground/playfield area. The campus currently contains 43,124 square feet of landscaped areas and open space, including a learning garden located near the intersection of the 23rd Court and Arizona Avenue.

Use of school facilities for community use occur outside normal school operating hours, generally after 3:00 pm on weekdays, and after 8:00 a.m. on Saturdays and Sundays, and all outdoor activities must be completed by sunset, on both weekdays and weekends.. Indoor activities are typically completed by 9:00 p.m. but can be permitted until 10:00 p.m. Parking for Civic Center uses is provided in the school's on-site surface parking lots.

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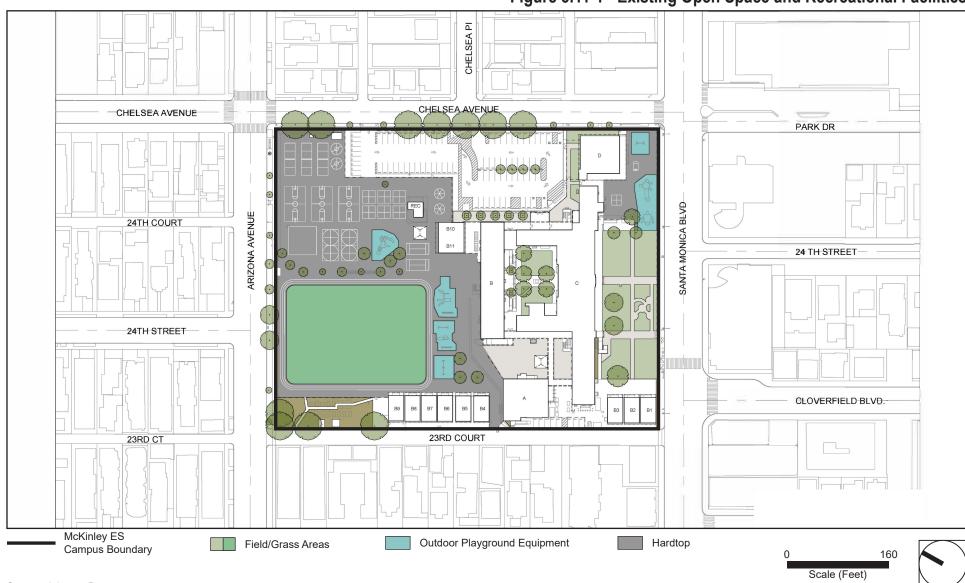


Figure 5.11-1 - Existing Open Space and Recreational Facilities

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5.11.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project:

- R-1 Would increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.
- R-2 Includes recreational facilities or requires the construction or expansion of recreational facilities which might have an adverse physical effect on the environment.

5.11.3 Environmental Impacts

5.11.3.1 IMPACT ANALYSIS

The following impact analysis addresses thresholds of significance for which the Initial Study disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.11-1: The Proposed Project would not result in increased use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. [Threshold R-1]

The demand for parks is created by population growth that may result from the development of new housing and/or actions that generate an increase in population in area. As described above, the City of Santa Monica operates and maintains 32 parks, a total of approximately 130 acres. The closest park to the campus is Shader Park, located at 1425 Cloverfield Boulevard, approximately 0.08 mile southeast of the campus. The campus is currently used for other community recreational activities as described above.

The Proposed Project would modernize the McKinley ES campus to serve the existing student population. The Proposed Project would not increase student enrollment, would not result in an increase staff at the school, and would not increase population in the surrounding community. Thus, the proposed project would not result in the need for construction of new recreational facilities.

As shown in Figure 5.11-2, *Phase 1 Open Space and Recreational Facilities*, and Figure 5.11-3, *Phase 2 Open Space and Recreational Facilities*, implementation of the Proposed Project would include the modernization and reconfiguration of the existing campus playground.

Construction

Reconfiguration of the existing McKinley ES campus playground would begin during Phase 1 of the Proposed Project with the removal of 11 portable classrooms located on the southern portion of the playground and implementation of the interim parking lot located near the intersection of Chelsea Avenue and Arizona Avenue. During the construction period for Phase 1, the majority of the existing playground, including the grass playfield and portions of the hardtop playground, would be available for use by students and recreational community programs.

Phase 2 of the Proposed Project would centralize the campus playground areas and concentrate them closer to the core of the campus. During the construction for Phase 2, which could be up to 18 months, access to the campus playground would be temporarily restricted; thus, recreational uses of the playground would be limited to hardtop playground areas located directly west of Building D and the location of the former portable classroom buildings. Physical education programming would be moved to the multi-purposed room (MPR) or other outside areas that are not under construction. Additionally, construction of Phase 2, would require temporary relocation of the ongoing community recreational uses on the campus. Other District facilities would be available for use during construction of the Proposed Project for community recreational activities and programs, including Franklin Elementary School, located approximately 0.7 miles from the campus; Lincoln Middle School, located approximately 0.75 miles from the campus; and Grant Elementary School, located approximately 1.2 miles from the campus. The District would coordinate with each program that currently uses McKinley ES to ensure other recreational facilities are available during construction at McKinley ES. Upon completion of Phase 2, the campus playgrounds and fields would be available for student use and community programs, similar to existing conditions.

Construction of Phase 3 of the Proposed Project would implement a new parking lot located along 23rd Court, near the intersection with Arizona Avenue. Construction of Phase 3 would require implementation of the new parking lot on the southern portion of the campus, in the location of the former portable classroom buildings. However; construction activities during Phase 3 of the Proposed Project would not restrict the use of the campus playground.

Although, construction activities would restrict partial use of the campus playground, primarily during Phase 2 of the Proposed Project, the athletic fields and facilities at other campuses throughout the District would be available for permit use by the community through the Civic Center Act and joint use agreements with the City of Santa Monica. Because this relocation is temporary and involves few activities, relocation would not result in increased use of other existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of recreational facilities would occur or be accelerated. Therefore, temporary construction impacts to the campus's recreation facilities would be **less than significant**.

Operation

The modernization of the campus would accommodate current and planned future student enrollment in accordance with the District's educational specifications. The proposed facilities and upgrades would be adequate to serve the existing and future student population; thus, increased demand for off-site recreational resources, parks, or other facilities within the City is not anticipated as a result with the Proposed Project's implementation. Additionally, all other community recreational activities that occur under the Civic Center Permit would continue after the completion of construction, in compliance with Policy CE-1.8 and CE-1.9 of the Santa Monica General Plan, to improve and expand sports and recreational facilities throughout the City and provide recreational facilities, offering residents of all ages affordable and safe access to high-quality recreational opportunities. Therefore, the Proposed Project would not increase the use of existing neighborhood and regional parks or other recreational facilities such that the substantial physical deterioration of recreational facilities would occur or be accelerated. Impacts would be **less than significant**.

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Figure 5.11-2 - Phase I Open Space and Recreational Facilities

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Figure 5.11-3 - Phase 2 Open Space and Recreational Facilities

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Impact 5.11-2: The Proposed Project would not Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment. [Threshold R-2]

The Proposed Project includes the improvement of existing publicly available recreational facilities within the Proposed Project's Site. The Proposed Project would not involve any construction of recreational facilities beyond what is proposed to serve the existing and future students, as described below.

As shown in Table 5.11-1, McKinley ES Campus Open Space, the existing campus contains a total of 166,399 square feet of open space, including 123,275 square feet of playfields and playgrounds, 43,124 square feet of landscaped areas, and zero outdoor classroom space.

Phase 1

Phase 1 of the Proposed Project would require approximately 11,028 square feet of demolition, including the removal of 11 existing portable classrooms (B1 through B11) and one restroom building located on the playground. Removal of the 11 portable classroom buildings would result in new playground areas located on the southern portion of the campus, in the location of the former portable buildings (B1 through B11). Additionally, Phase 1 of the Proposed Project would implement an interim parking lot near the intersection of Chelsea Avenue and Arizona Avenue (see Figure 5.11-2). Implementation of Phase 1 of the Proposed Project would reduce the existing playground by approximately 15,012 square feet. At completion of Phase 1, the campus would contain a total of 181,986 square feet of open space, including 108,263 square feet of playfields and playgrounds, 68,987 square feet of landscaped areas, and 4,736 square feet of outdoor classroom space (see Table 5.11-1).

Phase 2 and Phase 3

Phase 2 of the Proposed Project would also centralize the elementary playground areas and concentrate them closer to the core of the campus, which would result in a safe and visible play area. The field would be reconfigured to a standard rectangular play field centrally located in the southern portion of the campus (see Figure 5.11-3). Additionally, Phase 3 of the Project would include the implementation of a new parking lot located along 23rd Court, near the intersection with Arizona Avenue. Construction of the new parking lot would remove the existing garden located at the intersection of 23rd Court and Arizona Avenue, and would remove a portion of the hardtop playground in the location of the former portable classroom buildings.

At completion of Phases 2 and 3, the campus would contain a total of 173,878 square feet of open space, including 93,169 square feet of playfields and playgrounds, 72,605 square feet of landscaped areas, and 8,104 square feet of outdoor classroom space (see Table 5.11-1).

Although playgrounds and play fields on the campus would be reduces by approximately 30,106 square feet at completion of the Proposed Project, compared to existing conditions, landscaped and open space areas on the campus would increase by approximately 29,481 square feet, and outdoor classroom space would increase by approximately 8,104 square feet, in compliance with Policy LU-4.6 of the Santa Monica General Plan, to

provide open space near residences that are part of an expanding and comprehensive system of passive and active open space

Table 5.11-1 McKinley ES Campus Open Space

	Square Footage	Acres
Existing Campus		
Playfields and Playgrounds	123,275	2.83
Landscaped Areas (includes shelter and learning garden)	43,124	0.99
Outdoor Classrooms	0	0
Total- Existing Campus	166,399	3.82
Campus at Completion of Phase 1	<u> </u>	
Playfields and Playgrounds	108,263	2.49
Landscape and Open Space (includes shelter and learning garden)	68,987	1.58
Outdoor Classrooms	4,736	0.11
Total – At Completion of Phase 1	181,986	4.18
Campus at Completion of Phase 2 and 3	<u> </u>	
Playfields and Playgrounds	93,169	2.14
Landscape and Open Space (includes shelter and learning garden)	72,605	1.67
Outdoor Classrooms	8,104	0.19
Total – At Completion of Phases 2 and 3	173,878	3.99

As described above, construction activities would restrict partial use of the campus playground, primarily during Phase 2 of the Proposed Project; however, the athletic fields and facilities at other campuses throughout the District would be available for permit use by the community. Following completion of the Proposed Project, the athletic facilities at the school would continue to be available for community use through the Civic Center Act and joint use agreement between the District and the City. When the school facilities are not in use and are not scheduled for school-sponsored or other District-related events, certain community organizations and members would continue to be permitted to use school facilities for their events by obtaining a Civic Center Permit from the SMMUSD, as described above consistent with current operation.

The modernization of the campus would accommodate current and planned future student enrollment in accordance with the District's educational specifications. The proposed facilities and upgrades would be adequate to serve the existing and future student population; thus, the Proposed Project would not result in increased demand for off-site recreational resources, parks, or other facilities within the City. Therefore, implementation of the Proposed Project would result in **less than significant impacts** related to new and/or expanded recreational facilities.

5.11.4 Mitigation Measures

No mitigation measures are required.

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5.11.5 Level of Significance After Mitigation

All impacts are **less than significant**.

5.11.6 Cumulative Impacts

Cumulative development growth within the City of Santa Monica would result in residential development and result in an increase in residential population. This growth is anticipated to increase the use of existing parks and recreational facilities to a level that could require additional facilities to be developed. As a result, cumulative growth could result in significant deterioration of existing facilities or accelerate deterioration, and thus, result in a significant cumulative impact. As identified above, the implementation of the Proposed Project would not result in an increase in student capacity, new residential uses or residential population that could result in the use of surrounding existing parks and recreational facilities. During construction, students and community programs may require the use of other District facilities or other recreational facilities in the City. However, this use is anticipated to be temporary less than a year, and therefore, the project's contribution to the cumulative deterioration of the existing facilities would be less than cumulatively considerable. Cumulative impacts related to recreational facilities would be less-than-significant.

5.11.7 References

Santa Monica, City of. 2015, July 24. Santa Monica Land Use and Circulation Element. Accessed December 1, 2022. https://learn.sharedusemobilitycenter.org/wp-content/uploads/policy-documents-4/Santa%20Monica_Revised%20LUCE%207.24.15_web.pdf.

———. Santa Monica Municipal Code. https://library.qcode.us/lib/santa_monica_ca/pub/municipal_code

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5.12 TRANSPORTATION

This section of the Draft Environmental Impact Report (DEIR) evaluates the McKinley Elementary School Campus Master Plan Project's (Proposed Project) potential impacts on transportation and traffic.

The analysis in this section is based in part on the following technical report(s):

McKinley Elementary School VMT and Trip Generation Memo, IBI Group, March 2023

A complete copy of this study is included in Appendix K to this DEIR.

A California Environmental Quality Act (CEQA) scoping meeting was conducted on January 31, 2023, where comments were expressed regarding vehicle and pedestrian circulation concerns during construction and operation of the Proposed Project. The IS/NOP and all scoping comment letters are included as Appendices B and C of this document.

5.12.1 Environmental Setting

5.12.1.1 REGULATORY BACKGROUND

State, regional, and local laws, regulations, plans, or guidelines related to transportation that are applicable to the Proposed Project are summarized in this section.

State

Senate Bill 743

On September 27, 2013, Senate Bill (SB) 743 was signed into law. The legislature found that with the adoption of SB 375, the state had signaled its commitment to encourage land use and transportation planning decisions and investments that reduce Vehicle Miles Traveled (VMT) and thereby contribute to the reduction of greenhouse gas (GHG) emissions, as required by Assembly Bill (AB) 32. Additionally, AB 1358, described subsequently, requires local governments to plan for a balanced, multimodal transportation network that meets the needs of all users.

SB 743 started a process that fundamentally changes transportation impact analysis as part of CEQA compliance. These changes include the elimination of auto delay, level of service (LOS), and similar measures of vehicular capacity or traffic congestion as the basis for determining significant impacts in many parts of California (if not statewide). As part of the new CEQA Guidelines, the new criteria "shall promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses" (California Public Resources Code section 21099[b][1]). On January 20, 2016, the Governor's Office of Planning and Research (OPR) released proposed revisions to its CEQA Guidelines for the implementation of SB 743. OPR developed alternative metrics and thresholds based on VMT. The guidelines were certified by the Secretary of the Natural Resources Agency in December 2018, and automobile delay, as described solely by LOS of similar measures of vehicular capacity or traffic congestion, shall not be considered a significant impact on the environment. As of July 1, 2020, lead agencies are required to consider

5. Environmental Analysis TRANSPORTATION

VMT as the metric for determining transportation impacts. The guidance provided relative to VMT significance criteria is focused primarily on land use projects, such as residential, office, and retail uses. However, as noted in the updated CEQA Guidelines, agencies are directed to choose metrics that are appropriate for their jurisdiction to evaluate the potential impacts of a project in terms of VMT. The Santa Monica-Malibu Unified School District (SMMUSD or District) has not yet adopted a VMT threshold for use in determining significant transportation impacts under CEQA, and are relying on the City of Santa Monica's adopted VMT screening criteria and significance thresholds.

Regional

Southern California Association of Governments

The Southern California Association of Governments (SCAG) 2020 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), also known as Connect SoCal, was adopted in September 2020. The 2020 RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. The 2020 RTP/SCS charts a path toward a more mobile, sustainable, and prosperous region by making connections between transportation networks, between planning strategies, and between the people whose collaboration can improve the quality of life for Southern Californians. The 2020 RTP/SCS embodies a collective vision for the region's future and is developed with input from local governments, county transportation commissions, tribal governments, nonprofit organizations, businesses, and local stakeholders within the SCAG counties (SCAG 2020).

As stated in the Connect SoCal, SB 375 requires SCAG and other Metropolitan Planning Organizations (MPO) throughout the State to develop a Sustainable Communities Strategy to reduce per capita greenhouse gas (GHG) emissions through integrated transportation, land use, housing, and environmental planning (SCAG 2020). Within the Connect SoCal, the overarching strategy includes plans or High-Quality Transit Areas (HQTA), Livable Corridors, and Neighborhood Mobility Areas as key features of a thoughtfully planned, maturing region in which people benefit from increased mobility, more active lifestyles, increased economic opportunity, and an overall higher quality of life. HQTAs are described as generally walkable transit villages or corridors that are within 0.5-mile of a well-serviced transit stop or a transit corridor with 15-minute or less service frequency during peak commute hours. Local jurisdictions are encouraged to focus housing and employment growth within HQTAs, and the Proposed Project's Site is located within an HQTA (SCAG 2020).

Local

City of Santa Monica Municipal Code

The City's Municipal Code (Municipal Code or SMMC) establishes regulations and standards for development in the City of Santa Monica.

Chapter 9.28, Parking, Loading, and Circulation

Chapter 9.28 of the Municipal Code ensures that on-site parking and loading areas are designed and located to protect public safety; minimize congestion and conflict points on travel aisles and public streets; and where appropriate, buffer surrounding land uses from their impact.

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5. Environmental Analysis TRANSPORTATION

City of Santa Monica General Plan

The City of Santa Monica Land Use and Circulation Element (LUCE) was adopted July 6, 2010 and revised July 24, 2015. The LUCE establishes the City's land use, urban design, and transportation vision. The following goals and policies related to transportation and traffic, are applicable to the entire City and relevant to the Proposed Project (City of Santa Monica 2015).

Circulation Element

■ **Policy T8.4.** Design buildings to prioritize pedestrian access from the street, rather than from a parking lot.

Goal T24: Provide adequate parking availability for commuters, visitors and shoppers throughout the day.

- Policy T25.1. Require adequate on-site loading areas for child care centers, healthcare offices and other
 uses with intensive passenger drop-off demands, and work with schools to encourage provision of
 adequate loading areas.
- Policy T25.2. Require that parking be accessed only from alleys, where alley access is available.

Pedestrian Action Plan

The Pedestrian Action Plan continues the City's longstanding effort to prioritize people walking in its planning and transportation decisions, promoting equity, and ensuring comfort for a wide range of users. The following goals and policies related to pedestrian safety, are applicable to the entire City and relevant to the Proposed Project (City of Santa Monica 2016).

- Goal 1. Vision Zero: The safety of people walking in Santa Monica is a shared responsibility.
- **Goal 2. A Healthy Community:** Streets and sidewalks are designed to promote the healthy, active and safe Santa Monica lifestyle.
- **Goal 3. Community Compassion and Equity:** Citywide investments foster a sense of community by supporting people of differing abilities and promoting social equity.
- **Goal 7. Pedestrian Awareness and Education:** The community has a high awareness about safety, the benefits of walking for good health, and the viability of walking in Santa Monica.
- Goal 8. Coordinated City Efforts > City departments work together to improve conditions for walking.

Safe Routes to School

Safe Routes to School (SRTS) is a sustained effort to improve the health and wellbeing of children by helping families to feel confident walking, biking, and skating to school. The SRTS has two top priorities:

Build safety improvements on neighborhood streets connecting students' homes to their school.

5. Environmental Analysis TRANSPORTATION

 Promote a culture in school communities that prioritizes safety, physical activity, and sustainable transportation.

The City's SRTS program aims to make taking active transportation to school a customary part of everyday life and includes the Bike It Walk It encouragement events each fall and spring, safety training for students and their parents, outreach and events, and infrastructure improvements. As part of the City's SRTS program, staff conducted walk audits in partnership with students, parents, and faculty at six schools including McKinley Elementary. An SRTS Walk Audit Report (2018) was released and includes preliminary recommendations including, but not limited to, curb extensions, curb ramp improvements, new or improved crosswalks, installation of rectangular rapid flashing beacons (RRFBs), pavement markings and signage enhancements, enhanced bicycle accommodations, lighting enhancements, and modifications to on-street parking and short-term loading regulations to better facilitate school pick-up and drop-off needs (City of Santa Monica 2019). Proposed improvements near McKinley ES campus include:

- Santa Monica Boulevard and Chelsea Avenue: Analyze feasibility of new striping and signage to reduce left turn conflicts
- Santa Monica Boulevard and Cloverfield Boulevard: Evaluate signal timing and phasing
- Santa Monica Boulevard and 23rd Street: Evaluate signal timing and phasing
- Arizona Avenue and Chelsea Avenue: Evaluate drop off/pick up (DOPU) zones to reduce conflict points
- Arizona Avenue and 23rd Street: Analyze feasibility of curb extensions at all corners
- Arizona Avenue and 24th Street: New high visibility crosswalk
- Arizona Avenue and Chelsea Avenue: Analyze feasibility of curb extensions at all corners

Through these efforts, students in Santa Monica will have the resources to move safely through their hometown, connect with their environment, and practice living sustainably.

5.12.1.2 EXISTING CONDITIONS

Existing Transportation System

Roadway Network

Access to the campus is provided by the surrounding roadway network, which includes Interstate 10 (I-10), State Route (SR) 1, Santa Monica Park Boulevard, Chelsea Avenue, Arizona Avenue, and 23rd Court.

Highways

The McKinley ES campus is located in the Mid-City neighborhood of the City of Santa Monica. The Santa Monica Freeway, Interstate (I) 10 provides east/west access across the City of Santa Monica to the City of Los Angeles, and also connects to the San Diego Freeway (I-405) and Pacific Coast Highway (PCH).

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Street Network

The campus is bounded by Santa Monica Boulevard to the southeast, Chelsea Avenue to the northeast, Arizona Avenue to the northwest, and 23rd Court (alley) to the southwest.

- Santa Monica Boulevard is designated a Boulevard, which is a regional transportation corridor with continuous mixed-use and commercial land uses. Provides access for all forms of transportation, but emphasizes transit and walking. Regional auto traffic is accommodated here in order to minimize regional traffic on parallel streets (City of Santa Monica 2015).
- Arizona Avenue and Chelsea Avenue are designated as neighborhood streets, which provide access primarily to abutting uses. Autos travel slowly enough to stop for people in the street.
- 23rd Court is an alley, which provide local property access.

Existing School Operations and Circulation

Vehicular access to the campus is provided via two surface parking lots located along Chelsea Avenue. Additional parking is provided along the southern portion of the campus, near Santa Monica Boulevard and 23rd Court. Pedestrian access to the campus is provided via Santa Monica Boulevard, Chelsea Avenue and Arizona Avenue (see Figure 5.12-1, Existing Vehicular/Pedestrian Circulation).

Both staff parking, early education parking, and student DOPU are through the Chelsea Avenue parking lot. All grades at the school begin 8:00 a.m. and 8:20 a.m. with TK-K dismissed at 1:35 p.m. and Grades 1 through 5 between 2:45 p.m. and 3:00 p.m. during the week, except for Wednesdays where Grades 1 through 5 are dismissed at 1:45p.m.

Student DOPU

The current DOPU operations occur primarily at three locations:

- Parking Lot DOPU DOPU counterclockwise drive-through lane system in parking lot. Provides access
 to Parking Lot Gate and Courtyard Gates for Grades 1 through 5, Office/Breakfast entrance, and TK/K
 Gate for TK/K students.
- Chelsea Avenue DOPU Chelsea Avenue at the eastern side of the school via neighborhood on-street parking. Provides access to Parking Lot Gate and Courtyard Gates for Grades 1 through 5, Office/Breakfast entrance, and TK/K Gate for TK/K students.
- Arizona DOPU Arizona Avenue at the northern end of the school via neighborhood on-street parking.
 Provides access to Arizona Gate for Grades 1 through 5.

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School Trip Generation and Distribution

The existing trip generation for McKinley Elementary School was estimated using the rate published for Land Use Code 520 (Elementary School) in the Institute for Transportation Engineers (ITE) Trip Generation Manual (11th Edition, 2021). The Proposed Project would not eliminate the school's existing programs, and it is not the intent of the Proposed Project to expand the school enrollment capacity. The most recent student population figure was 688 students, approximately 48 of which are TK, and Kindergarten students and 640 students in Grades 1 through 5.

An estimated 1,562 daily trips are generated with 516 trips being in the morning peak drop-off time (AM) (279 inbound and 237 outbound) and 310 trips in the afternoon peak drop-off (PM) (142 inbound and 167 outbound) and accounts for students who walk or are walked to school. Table 5.12-1, *Project Trip Generation Rates*, summarizes the estimated existing trip generation of the school based on a student population of 688.

Table 5.12-1 Existing Campus Trip Generation and Rates

				Trip Generation						
			AM Peak Drop-Off			PM Peak Pick-Up				
Source	Land Use	Students	Daily	ln	Out	Total	In	Out	Total	
Rates					-		-	•	-	
ITE Code 520	Elementary School		2.27	0.41	0.35	0.75	0.21	0.24	0.45	
Estimated Scho	ool Trips				•					
	TK, and K	48	109	19	17	36	10	12	22	
	Grades 1-5	640	1,453	259	221	480	132	156	288	
	Total	500	1,562	279	237	516	142	167	310	

The trip generation was further broken down by grade level. TK and K generate approximately 109 daily trips with 36 occurring in the morning AM (19 inbound and 17 outbound) and 22 trips in the afternoon PM (10 inbound and 12 outbound). Grades 1 through 5 are estimated to generate approximately 1,453 daily trips with 480 occurring in the morning AM (259 inbound and 221 outbound) and 288 in the afternoon PM (132 inbound and 156 outbound). It is assumed that the traffic associated with the TK and K utilize the both the Parking Lot and Chelsea DOPU areas to access the TK/K Gate and traffic associated with Grades 1 through 5 use all three DOPU areas (Parking Lot, Arizona, and Chelsea) (IBI Group 2023).

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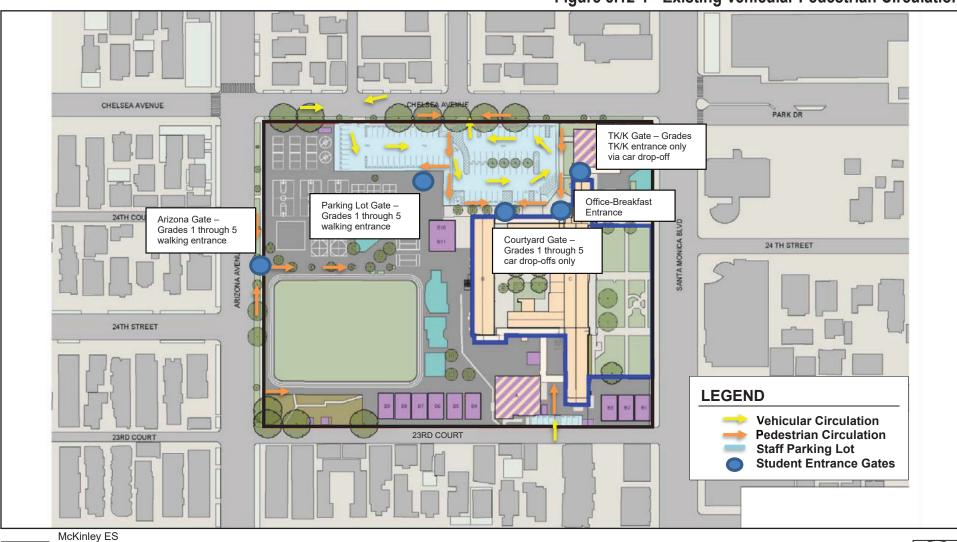


Figure 5.12-1 - Existing Vehicular Pedestrian Circulation

Campus Boundary

160

Scale (Feet)

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5.12.2 Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would:

- T-1 Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities.
- T-2 Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b).
- T-3 Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).
- T-4 Result in inadequate emergency access.

5.12.3 Environmental Impacts

5.12.3.1 METHODOLOGY

The analysis of consistency with circulation plans, programs, ordinances, and policies reviews the Proposed Project and determines whether the Proposed Project would obstruct or conflict with the applicable plans, programs, ordinance, and policies listed in the Regulatory Framework.

VMT

Section 15064.3 of the revised CEQA Guidelines was adopted by the Office of Planning and Research on December 28, 2018, and states that vehicles miles traveled (VMT) is the appropriate measure of transportation impacts. Section 15064.3(c) also states that the provisions of this section shall apply prospectively (i.e., only applicable to new projects after date of adoption) and must be implemented statewide by July 1, 2020. In June 2020, the City of Santa Monica adopted new VMT screening criteria and significance thresholds pursuant to Section 15064.3.

Vehicle miles traveled (VMT) is an indicator of the travel levels on the roadway system by motor vehicles. It corresponds to the number of vehicles multiplied by the distance traveled in a given period over a geographical area. In other words, VMT is a function of (1) number of daily trips and (2) the average trip length (VMT = daily trips x average trip length).

The City's adopted screening criteria is the first step in the transportation review process to "screen" out projects from VMT analysis. Projects meeting the VMT screening criteria are deemed to have a less than significant impact and no further VMT analysis is necessary. The tiered screening criteria for land use projects are described below.

■ Tier 1: Does the project include the development of the following land uses, which are screened out from further analysis? If yes, no further analysis is required. If no, move to Tier 2.

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- Land Uses Screened from VMT Analysis:
 - 200 residential dwelling units or less
 - 100% affordable housing
 - 50,000 sf or less of commercial floor area by land use type1
 - New construction of educational facilities/institutions (such as increased classrooms, gym/recreational space, and other supportive areas) provided that there would be no student enrollment increase or if student enrollment is increased, 75% of the student body comes from within 2.0 miles of the school
 - Expansions of civic/government use (such as fire and police stations) and utility facilities less than 50,000 sf or replacement of such uses/facilities (in same or another location) to serve the community, or if larger than 50,000 sf, the project would not result in more than 50 net new additional full time equivalent employees
 - Local serving Parks and Recreational facilities, as determined by City Staff For a mixed-use project, the individual components of the project should be evaluated to determine if each can be screened out. For example, a mixed-use project with 150 units and 75,000 sf of office area cannot be screened out at the Tier 1 level and would be required to move to Tier 2.
- **Tier 2:** Is the project located within 0.5-mile walking distance of an Expo LRT station or 0.25 walking distance of Rapid BRT stop? If no, conduct VMT analysis. If yes, move to Tier 3.
- Tier 3: Would the project provide more parking than required by Code (or if located in the Downtown, exceed parking maximums)? If no, no further analysis is required. If yes, conduct VMT analysis.

Additionally, a land use project would be screened from VMT analysis and concluded to have a less than significant impact if:

- A project decreases [total] vehicle miles traveled in the project area compared to existing conditions or
- A redevelopment project replaces existing VMT generating land uses with new uses that result in a net overall decrease in VMT.

Projects that are screened out based on the criteria above are presumed to have a less than significant impact on transportation and as such, no VMT analysis is required.

Hazardous Design Features

The analysis evaluates whether the Proposed Project would result in hazards due to design features by determining whether the Project would include curved streets with inadequate view distances, unsafe separation of vehicles and pedestrians or bicyclists, and not provide adequate pedestrian crosswalks at intersections.

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Emergency Access

The emergency access analysis evaluates whether the Proposed Project would comply with City emergency access requirements including those imposed by the Santa Monica Fire Department regarding adequate turning radii on streets, response distances to buildings, etc.

Field Observations

Field observations of the Proposed Project's Site were conducted by IBI staff on Tuesday, May 24, 2022, and identified existing traffic patterns, access points, DOPU operations, pedestrian/vehicular conflict areas, and pedestrian circulation.

5.12.3.2 IMPACT ANALYSIS

The following impact analysis addresses thresholds of significance for which the Initial Study disclosed potentially significant impacts. The applicable thresholds are identified in brackets after the impact statement.

Impact 5.12-1: The Proposed Project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. [Threshold T-1]

SCAG RTP/SCS

The Proposed Project would result in the modernization and redevelopment of the existing campus. It would not result in an increase in student capacity or staffing levels in the school and would therefore not result in an increase of vehicle trips following Proposed Project buildout. Construction and operation of the Proposed Project would not prohibit or interfere with the RTP/SCS GHG per-capita reduction targets of 8 percent by 2020 and 19 percent by 2035, or the associated reduction in VMT per capita for year 2045 by 4.1 percent compared to baseline conditions for the year. Since the Proposed Project would operate in the same capacity as existing conditions, it would not conflict with the 2020-2045 RTP/SCS "core vision" regarding maintaining and better managing the transportation network for moving people and goods while expanding mobility choices by locating housing, jobs, and transit closer together and increasing investments in transit and complete streets. Therefore, the Proposed Project would be consistent with the SCAG RTP/SCS.

Santa Monica General Plan

The Proposed Project would not require the implementation or alteration of any public roadways in the areas surrounding the campus. As shown in Table 5.12-2, *Consistency with Goals and Policies Addressing the Circulation System*, the Proposed Project would be consisted with all applicable goals and policies from the City of Santa Monica's General Plan.

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Table 5.12-2 Consistency with Goals and Policies Addressing the Circulation System

Circulation Element			
Policy T8.4. Design buildings to prioritize pedestrian access from the street, rather than from a parking lot.	Consistent. The Proposed Project would include new entrances for students to the McKinley ES campus via Chelsea Avenue.		
Goal T24: Provide adequate parking availability for commuters, visitors and shoppers throughout the day.	Consistent. The Proposed Project would include one interim parking lot along Chelsea Avenue during Phase 2, in addition to one permanent parking lot along 23rd Court during Phase 3. Parking on the campus would increase from the current 90 stalls to 100 stalls upon completion of the Proposed Project.		
Policy T25.1. Require adequate on-site loading areas for child care centers, healthcare offices and other uses with intensive passenger drop-off demands, and work with schools to encourage provision of adequate loading areas.	Consistent. New on-site drop-off and pick-up areas would be implemented along Chelsea Avenue. The preschool, transitional kindergarten, and kindergarten classrooms would provide separate dedicated entrances with dedicated parking for parents to walk children into class, and a dedicated reception and office area required near drop-off/pick-up. Special education classrooms would provide access to dedicated drop-off/pick-up to accommodate buses; adjacency to parking (for instructors, aides, and volunteers); easy access to general classrooms, multipurpose room, library, and other daily use programs; proximity to administrative services, including nurse, flex administration office areas, psychology, speech therapy, and adjacency to culinary cafe for integration with the rest of the student body.		
Policy T25.2. Require that parking be accessed only from alleys, where alley access is available.	Consistent. Upon completion of the Proposed Project, permanent faculty parking would be location along 23rd Court (alley).		

The Proposed Project would not adversely affect any existing or planned transit, bicycle, or pedestrian facilities. Additionally, because the Proposed Project would not increase enrollment or capacity, there would not be an increase in demand for these facilities. The Proposed Project would not alter the current travel patterns or pedestrian activity already experienced and planned for under existing conditions.

Santa Monica Municipal Code

The Proposed Project would comply with the standards and requirements set forth in the SMMC. Specifically, the Proposed Project would comply with Chapter 9.28, *Parking, Loading, and Circulation*, of the SMMC, with reconfiguration and implementation of new parking lots within the McKinley ES campus. Phase 1 of the Proposed Project would include implementation of a new interim parking lot located alone Chelsea Avenue and Arizona Avenue, which would be removed during Phase 3 of the Proposed Project. Phase 3 of the Proposed Project would include the construction of a new permanent parking lot located along 23rd Court, in place of the preview garden and portable classrooms. Parking on the campus would increase from 90 stalls or 100 stall upon completion of the Proposed Project. Therefore, the Proposed Project would not conflict with the SMMC such that a significant adverse impact to transportation would occur.

Pedestrian Action Plan

The project would include landscaped sidewalks and setbacks to improve the pedestrian realm along Chelsea Avenue and Arizona Avenue. Additionally, the Proposed Project would include pedestrian access points to the

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campus via the new classroom and office building located along Chelsea Avenue. As described below the Proposed Project would not conflict with the Pedestrian Action Plan. The Goals of the Pedestrian Action Plan are:

- Goal 1: Vision Zero. The safety of people walking in Santa Monica is a shared responsibility. The City's SRTS program would provide pedestrian safety near the McKinley ES Campus. When the City proceeds with modifications under the SRTS program around the McKinley ES campus, the District will coordinate with the City for SRTS project implementation.
- Goal 2: A Healthy Community. Streets and sidewalks are designed to promote the healthy, active and safe Santa Monica lifestyle. The Proposed Project would be confined to the Proposed Project's Site and would not construct or modify the surrounding circulation network, including roads and pedestrian facilities.
- Goal 4: Sustainability and Stewardship. More people walk in Santa Monica than ever before, which promotes environmental sustainability and stewardship of our natural resources. The Proposed Project would modernize the existing McKinley ES campus that currently serves the surrounding community. The Proposed Project would continue to serve the local community residents and would not construct or modify the surrounding circulation network, including roads and pedestrian facilities. The Proposed Project would not alter attendance boundaries resulting in increased walking distances.
- Goal 5: Walking as the First Choice. Santa Monica makes transportation, land use and building design decisions that make walking a logical first choice transportation option for those who are able. The Proposed Project would be consistent with Goal 5 (see consistency analysis in Goal 4 above).
- Goal 6: A Barrier-Free Network. Santa Monica has a pedestrian network that connects transit, bicycling
 and shared parking options. The Proposed Project would be consistent with this goal. See Goals 1 through
 5 above.
- Goal 7: Pedestrian Awareness and Education. The community has a high awareness about safety, the benefits of walking for good health, and the viability of walking in Santa Monica. The Proposed Project would be consistent with Goal 7. The Proposed Project would improve pedestrian circulation and safety on campus. The District will coordinate with the City when the City implements the SRTS program near the McKinley ES campus.
- Goal 8: Coordinated City Efforts. City departments work together to improve conditions for walking. The
 District will continue to coordinate with the City during the City's implementation of SRTS.

Safe Routes to School

The Proposed Project would not conflict with the goals and objectives the City's SRTS program. The Proposed Project would include a new early education/visitor parking lot with 15 parking stalls on Chelsea Avenue that would include an off-street lane for drop-off/pick-up and an arrival court east of the existing Building C. The City is developing local transportation funds to implement the proposed improvements based on the SRTS walking audits conducted in 2018 as described above (City of Santa Monica 2023). Once funding is secured, the City will coordinate with the District to implement these improvements.

In summary, the Proposed Project would be confined to the Proposed Project's Site and would not construct or modify the surrounding circulation network, including roads and pedestrian facilities. Therefore, the

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Proposed Project would not conflict with any regulations set forth by the City of Santa Monica's General Plan and/or Municipal Code. Therefore, the Proposed Project would not conflict with a program, plan, ordinance, or policy regarding public transit, roadway, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities. Impacts would be considered **less than significant**.

Impact 5.12-2: The Proposed Project would not conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b). [Threshold T-2]

Construction

Construction of the Proposed Project would require the mobilization of workers, vendors, equipment, and haul trucks to and from the campus, which would generate a temporary increase in traffic. The VMT of construction workers is not newly generated; instead, it is redistributed throughout the regional roadway network based on the different work sites in which workers travel to each day. Therefore, construction workers are not generating new trips each day, only redistributing them. Construction of the Proposed Project construction activities would be temporary and intermittent in nature occurring in three phases between the summer of 2023 and 2028; and thus, would not result in long-term increases in vehicular trips. Therefore, construction activities are not expected to significantly increase VMT in the region, and the VMT impact related to construction would be less than significant.

Operation

The Proposed Project would modernize the McKinley ES campus and would not change the land use of the school, increase the capacity of the school, or change the attendance boundaries of the school. As described above, the City has adopted screening criteria that can be used to "screen" out projects from VMT analysis. The Proposed Project was reviewed against the City's VMT screening criteria system to determine if a VMT analysis would be required. Under Tier 1 of the City's VMT screening criteria, projects that required development of specific land uses, are screened out from further analysis, including new construction of educational facilities/institutions (such as increased classrooms, gym/recreational space, and other supportive areas) provided that there would be no student enrollment increase or if student enrollment is increased, 75 percent of the student body comes from within 2 miles of the school.

The Proposed Project would fall under Tier 1 of the City's screening criteria and is screened out from further VMT analysis. VMT analysis and comparison of the Proposed Project against the significance thresholds are not required (see also Appendix K). The Proposed Project would not increase the student or employment population at McKinley ES, and the attendance boundaries of the school would not change; the Proposed Project would not result in more vehicle trips to and from the school during operation of the Proposed Project when compared to existing conditions. In addition, the Proposed Project would not modify primary site access locations and traffic patterns—which could potentially result in an increase in the average trip lengths. Therefore, impacts related to VMT associated with full buildout of the Proposed Project would be considered less than significant.

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Impact 5.12-3: The Proposed Project would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment). [Thresholds T-3]

Construction

Construction of the Proposed Project would occur over three phases beginning in the summer of 2023 and ending in the summer of 2028. Construction activities would involve demolition, grading and excavation, trenching for site utilities and irrigation, building construction, architectural coatings, driveway and walkway construction, landscaping, and parking lot improvements. All construction staging would be located within the boundaries of the existing campus. Construction of the Proposed Project would temporarily generate additional traffic on the existing area roadway network. These vehicle trips would include construction workers traveling to the campus as well as delivery trips associated with construction equipment and materials. Delivery of construction materials to the campus would require several oversized vehicles that may travel at slower speeds than existing traffic. Construction traffic would be scheduled in concert with the operations of the school, ensuring that trucks are not moving in or out during drop-off or pick-up times.

Construction activities would require the hauling of heavy equipment (e.g., bulldozers, excavators, etc.) and operation of large trucks on the surrounding roadway network. Some of the roadways surrounding the campus (e.g., Arizona Avenue, Chelsea Avenue, and 23rd Court) have limited lane width and sharp curves at intersections. Haul trips and equipment deliveries often use large trucks, which may temporarily cause hazards, such as sudden stops and queuing, on these roadways during delivery and removal. Additionally, construction may require temporary closures of the public right-of-way adjacent to the campus or increase safety hazards due to construction vehicles entering and exiting the campus (e.g., for delivery of building materials). Therefore, this impact would be **potentially significant**.

During construction of the Proposed Project, implementation of **Mitigation Measure T-1** would require the construction contractor to prepare and implement a Construction Management Plan (CMP) to address safety hazards, including but not limited to avoidance of construction staging and delivery during off-peak pick-up/drop-off times, which would reduce the temporary impact. Additionally, construction traffic impacts would be localized and temporary and would not introduce a permanent hazardous condition to the local roadways. Therefore, with the implementation of **Mitigation Measure T-1**, the Proposed Project would not substantially increase hazards due to a design feature or incompatible use. Impacts during construction would be reduced to **less than significant**.

Operation

The Proposed Project involves a school modernization and is a compatible use with the existing school uses. The new onsite DOPU lane to be developed during Phase 1 would relocate DOPU operations that are currently curbside on Chelsea Avenue to a new internal dedicated DOPU location off Chelsea Avenue. This includes two new egress driveways. The existing egress driveway at Chelsea Avenue would remain for Grades 1 through 5 DOPU operations, and a second new egress driveway would be constructed at the Office walkway to provide egress for transitional kindergarten-kindergarten (T-K/K) DOPU operations. Additionally, relocation of the

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staff parking lot to the northeast corner of the campus would separate parking-related traffic from DOPU operations, thereby minimizing hazards.

Phase 3 would shift the early education, visitors, and ADA parking area to the northeast corner of the campus (with the remaining spaces to the southeast corner along 23rd Court) and the provision of a new turnaround area at the northwest corner of the campus, east of Building C. The new turnaround area at the northwest corner of the campus would be provided via a new driveway on Chelsea Avenue located approximately 155 feet west of the intersection with Santa Monica Boulevard. This turnaround area is not anticipated to serve as a DOPU, but rather as a short-term area for deliveries and emergency access minimizing conflict with DOPU access. Relocation of the majority of staff and visitor spaces (78 spaces) to the northeast corner of the campus would separate parking-related traffic from DOPU operations.

Department of the State Architect (DSA) oversees the design of K-12 schools; thus, the Proposed Project would be required to meet the design and safety standards set forth by DSA including the provisions detailed in the California Code of Regulations, Title 24. The Proposed Project would be required to meet California Building Code requirements as established in DSA Interpretation of Regulations 11B-10 pertaining to Scoping and Path of Travel Upgrade Requirements for Facility Alteration, Addition and Structural Repair Projects. DSA reviews plans for public K–12 schools, community colleges, and certain other state funded building projects to ensure that plans, specifications, and construction comply with California's building codes (Title 24 of the California Code of Regulations); and thus, the Proposed Project would be subject to plan review ensuring the design and internal circulation would meet all applicable regulations related to design and operations. Additionally, at the start of each school year, all families are educated about the proper DOPU operations at the school, and DOPU areas are overseen by school staff. Crossing guards are also provided at the appropriate designated locations to ensure avoidance of hazards.

Implementation of the Proposed Project would not require the construction, re-design, or alteration of any public roadways and the types of vehicles accessing the campus during operational activities would be consistent with existing conditions (i.e., passenger vehicles and buses). The Proposed Project would be consistent with all City design and safety standards including those set forth in the Municipal Code. Article 7 of the Municipal Code pertains to public works. Specifically, Section Chapter 7.04 establishes the standards required for street improvements, including Section 7.04.180 which address driveways from public streets into private property. Additionally, the Proposed Project would comply with Municipal Code Chapter 9.28, which details the standards for parking, loading, and circulation including access and dimension requirements. Pedestrian and bicyclist safety and circulation is also addressed in this section of the Municipal Code to ensure sight distances, sidewalk width requirements, and other access standards are met. Therefore, impacts related to hazards are considered **less than significant**.

Impact 5.12-4: The Proposed Project would not result in inadequate emergency access. [Threshold T-4]

Construction

As discussed above, the campus is accessible via Santa Monic Boulevard, Arizona Avenue, Chelsea Avenue and 23rd Court. The campus would continue be accessible to emergency responders via these streets including

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SMFD during construction and operation of the Proposed Project. Construction activities would involve demolition, grading and excavation, trenching for site utilities and irrigation, building construction, architectural coatings, driveway and walkway construction, landscaping, and parking lot improvements. All construction staging would be located within the boundaries of the existing campus. Construction of the Proposed Project would temporarily generate additional traffic on the existing area roadway network. These vehicle trips would include construction workers traveling to the campus as well as delivery trips associated with construction equipment and materials. Delivery of construction materials to the campus would require several oversized vehicles that may travel at slower speeds than existing traffic. Construction traffic would be scheduled in concert with the operations of the school, ensuring that trucks are not moving in or out during drop-off or pick-up times.

Construction activities would require the hauling of heavy equipment (e.g., bulldozers, excavators, etc.) and operation of large trucks on the surrounding roadway network. Some of the roadways surrounding the campus (e.g., Arizona Avenue, Chelsea Avenue, and 23rd Court) have limited lane width. Haul trips and equipment deliveries often use large trucks, which may temporarily cause hazards, such as sudden stops and queuing, on these roadways during delivery and removal. Additionally, construction may require temporary closures of the public right-of-way adjacent to the campus or increase safety hazards due to construction vehicles entering and exiting the campus (e.g., for delivery of building materials). Construction contractors would be required to comply with all City standard conditions pertaining to construction including work hours, haul route, and access. Therefore, this impact would be **potentially significant**. Implementation of **Mitigation Measure T-1** would be required to ensure adequate emergency access during construction.

Operation

The Proposed Project would comply with all applicable local requirements related to emergency vehicle access and circulation. Project-related increase in traffic within the Proposed Project's Site and on surrounding roadways would not be sufficient to affect emergency response in the area. To address fire and emergency access needs, the Proposed Project would be required to incorporate all applicable design and safety requirements from the most current adopted fire codes, building codes, and nationally recognized fire and life safety standards of the City and Fire Department. The Proposed Project would also be subject to review by DSA who oversees design and construction for K-12 schools. The Proposed Project would also be required to comply with all design standards established by DSA including Policy 07-03, "Fire Department and Emergency Access Roadways and School Drop-Off Areas." The purpose of this policy is to establish requirements based on State Fire Marshal Regulations contained in Titles 19 and 24 of the California Code of Regulations, and the California Vehicle Code for fire and emergency access roadways on public school or community college campuses, including fire and emergency access roadways combined with student drop-off and pick-up areas. DSA would review project plans to ensure that plans, specifications, and construction comply with California's building codes (Title 24 of the California Code of Regulations). As such, the Proposed Project would be subject to DSA plan review thereby ensuring the proposed design and internal circulation would meet all applicable regulations prior to issuance of building permits. Therefore, impacts associated with operational emergency access would be less than significant.

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5.12.4 Mitigation Measures

Impacts 5.12-2 and 5.12-4

T-1 Before the start of construction of phase, the SMMUSD shall work with the City of Santa Monica Public Works Department to develop and implement a Construction Management Plan that is specific to the needs of each phase. The Construction Management Plan shall include a Temporary Traffic Control Plan (TTCP) to address anticipated impacts to or closures of public rights-of-way. The Construction Management Plan (including the TTCP) shall be submitted to the City Public Works Department for approval prior to construction of each phase of the Proposed Project. The TTCP shall demonstrate appropriate traffic handling during construction activities for all work that could impact the traveling public (e.g., the transport of equipment and materials to the campus area). The TTCP shall minimize hazards through industry-accepted traffic control practices. At a minimum, the TTCP shall require the contractor to do the following:

- Strictly adhere to the construction noise restrictions per Section 4.12.110 of the Santa Monica Municipal Code. Construction and demolition work times are: Monday through Friday, 8:00 a.m. until 6:00 p.m.; Saturdays 9:00 a.m. until 5:00 p.m. No construction or demolition is allowed on Sundays and holidays.
- Obtain transportation permits necessary for oversize and overweight load haul routes and follow regulations of the applicable jurisdiction for transportation of oversized and overweight loads;
- Provide adequate signage and traffic flagger personnel, if needed, to control and direct traffic for deliveries, if they could preclude free flow of traffic in both directions or cause a temporary traffic hazard; prohibit deliveries of heavy equipment and construction materials during periods of heavy traffic flow (i.e., 30 minutes before or after school start and end times);
- Develop a Traffic Education Program to assist in educating parents, students, and staff
 on drop-off/pick-up procedures specific to each phase of construction that includes
 informational materials regarding student drop-off and pick-up procedures via regular
 parent/school communication methods and posted on the school website;
- Utilize portable message signs and information signs at construction sites as needed;
- Coordinate with the responsible agency departments, including the City of Santa Monica Public Works and Planning Departments, and the City of Santa Monica Fire Department no less than 10 days prior to the start of the work for each phase including specifying whether any temporary vehicle, pedestrian, or bicycle construction detours are needed, if construction work would encroach into the public right-of-way, or if temporary use of public streets surrounding the campus is needed; and

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- Review all existing emergency access and evacuation plans and identify procedures for construction area evacuation in the case of an emergency declared by local authorities.
- Additionally, the District shall ensure that the construction contractor follows all applicable requirements and regulations established in the City of Santa Monica Procedures and Requirements for Temporary Traffic Control Plans to ensure the TTCP is prepared to City standards and approved as necessary.

5.12.5 Level of Significance After Mitigation

Mitigation Measure T-1 would reduce potential impacts associated with construction-related circulation, hazards, and safety issues to a level that is less than significant

5.12.6 Cumulative Impacts

The temporary and short-term construction-related traffic impact associated with the Proposed Project would be related to truck routes and construction area access routes used by Proposed Project workers and material haulers, and potential increased traffic safety hazards. In conjunction with other projects occurring within the Project area, significant cumulative impacts could occur if construction activities (i.e., truck and worker tripgenerating activities) for those other projects were to overlap (in time and place) with the proposed Project. The Proposed Project would require the implementation of **Mitigation Measure T-1** requiring a TTCP for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. The District will encourage its contractor to limit construction-related trucks to off-peak commute periods, avoiding cumulatively impacts by having vehicle trips scheduled for times where other vehicles would not be on the road. As such, the Proposed Project's contribution to any transportation and traffic-related cumulative impacts during construction would not be cumulatively considerable and the associated cumulative impacts would be less than significant.

5.12.7 References

IBI Group. 2023, March 16. McKinley ES VMT and Trip Generation Study.

Santa Monica, City of. 2015, July 24. Santa Monica Land Use and Circulation Element.
 https://learn.sharedusemobilitycenter.org/wp-content/uploads/policy-documents-4/Santa%20Monica_Revised%20LUCE%207.24.15_web.pdf.

 —2019, November 12. City Council Report. Award Contract and enter into Agreement with Stantec Consulting Services, Inc. for Design Services for Safe Routes to School (SRTS) Pedestrian Improvements at Six Schools Project. https://www.santamonica.gov/Media/PCD/Safe-Routes-To-School/6%20Schools%20Council%20Report.pdf.
 —2023, Project Improvements, Safe routes to School, McKinley Elementary School. https://www.santamonica.gov/mobility-projects/mckinley-elementary accessed in March 2023.

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This section of the Draft Environmental Impact Report (DEIR) evaluates other California Environmental Quality Act (CEQA) considerations for the McKinley Elementary School Campus Master Plan (Proposed Project), including significant unavoidable adverse impacts, impacts found not to be significant, significant irreversible changes, and growth-inducing impacts.

6.1 SIGNIFICANT UNAVOIDABLE ADVERSE IMPACTS

At the end of Chapter 1, Executive Summary, is a table that summarizes the impacts, mitigation measures, and levels of significance before and after mitigation. There would be no impacts which would remain significant, unavoidable, and adverse, after mitigation measures are applied.

6.2 IMPACTS FOUND NOT TO BE SIGNIFICANT

California Public Resources Code (PRC) section 21003 (f) states: "...it is the policy of the state that...[a]ll persons and public agencies involved in the environmental review process be responsible for carrying out the process in the most efficient, expeditious manner in order to conserve the available financial, governmental, physical, and social resources with the objective that those resources may be better applied toward the mitigation of actual significant effects on the environment." This policy is reflected in the State California Environmental Quality Act (CEQA) Guidelines § 15126.2(a), which states that "[a]n EIR [Environmental Impact Report] shall identify and focus on the significant environmental impacts of the proposed project" and § 15143, which states that "[t]he EIR shall focus on the significant effects on the environment." The Guidelines allow use of an Initial Study to document project effects that are less than significant (Guidelines § 15063[a]). Guidelines § 15128 requires that an Environmental Impact Report (EIR) contain a statement briefly indicating the reasons that various possible significant effects of a project were determined not to be significant and were therefore not discussed in detail in this Draft Environmental Impact Report (DEIR).

6.2.1 Assessment in the Initial Study

The Initial Study/Notice of Preparation (IS/NOP) prepared for the Proposed Project in January 2023 determined that impacts listed below would result in either no impact or less than significant impacts. Consequently, they have not been further analyzed in this DEIR. The IS/NOP is included as Appendix B of this DEIR. Please refer to Appendix B for explanation of the basis of these conclusions. Based on the comments received in response to the IS/NOP, and comments received at the scoping meeting conducted by the SMMUSD on January 31, 2023, Land Use and Planning and Recreation topics are further analyzed in the DEIR Sections 5.9, Land Use and Planning and 5.11, Recreation. Impact categories and questions are summarized in Table 6-1, Impacts Found Not to Be Significant, and are directly from the CEQA Environmental Checklist as contained in the IS/NOP.

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Table 6-1 Impacts Found Not to Be Significant

Table 6-1 Impacts Found Not to Be Significant				
	Environmental Issues	Initial Study Determination		
I. Al	ESTHETICS. Except as provided in Public Resources Code Section 21099, wo	ould the project:		
a)	Have as substantial adverse effect on a specific vista?	Less than Significant Impact		
b)	Substantially damage scenic resources, including, but not limed to, trees, rock outcroppings, and historic buildings within a state scenic highway?	No Impact		
II. A	GRICULTURE AND FORESTRY RESOURCES. In determining whether impacts	to agricultural resources are significant		
	ironmental effects, lead agencies may refer to the California Agricultural Lar			
pre	pared by the California Dept. of Conservation as an optional model to use in	assessing impacts on agriculture and farmland.		
	etermining whether impacts to forest resources, including timberland, are si			
	$oldsymbol{y}$ refer to information compiled by the California Department of Forestry and			
	est land, including the Forest and Range Assessment Project and the Forest I			
	asurement methodology provided in Forest Protocols adopted by the Californ	ia Air Resources Board. Would the project:		
a)	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources	No Impact		
	Agency, to non-agricultural use?			
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?	No Impact		
<u>c)</u>	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in	The impact		
-,	Public Resources Code Section 12220(g)), timberland (as defined by Public	No Impact		
	Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?			
d)	Result in the loss of forest land or conversion of forest land to non-forest use?	No Impact		
e)	Involve other changes in the existing environment which, due to their location or	TWO IMPAGE		
0)	nature, could result in conversion of Farmland, to non-agricultural use or	No Impact		
	conversion of forest land to non-forest use?	No impact		
III A	AIR QUALITY. Where available, the significance criteria established by the a	nnlicable air quality management or air pollution		
	trol district may be relied upon to make the following determinations. Would			
d)	Result in other emissions (such as those leading to odors) adversely affecting a			
	substantial number of people?	Less than Significant Impact		
IV. I	Biological Resources. Would the project:			
a)	Have a substantial adverse effect, either directly or through habitat			
	modifications, on any species identified as a candidate, sensitive, or special	No Impact		
	status species in local or regional plans, policies, or regulations, or by the	No impact		
	California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?			
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or			
	by the California Department of Fish and Wildlife or U.S. Fish and Wildlife	No Impact		
	Service?			
c)	Have a substantial adverse effect on state or federally protected wetlands			
,	(including, but not limited to, marsh, vernal pool, coastal, etc.) through direct	No Impact		
	removal, filling, hydrological interruption, or other means?			
d)	Interfere substantially with the movement of any native resident or migratory			
	fish or wildlife species or with established native resident or migratory wildlife	Less than Significant Impact		
-0)	corridors, or impede the use of native wildlife nursery sites? Conflict with any local policies or ordinances protecting biological resources,			
e)	such as a tree preservation policy or ordinance?	No Impact		
f)	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state	No Impact		
	habitat conservation plan?	No impact		
γr	CULTURAL RESOURCES. Would the project:			
c)	Disturb any human remains, including those interred outside of dedicated	L 11 00 17 11		
٠,	cemeteries?	Less than Significant Impact		

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Table 6-1 Impacts Found Not to Be Significant

Table 6-1 Impacts Found Not to Be Significant				
VII.	GEOLOGY AND SOILS. Would the project:			
a)	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:			
	i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	No Impact		
	ii) Strong seismic ground shaking?	Less than Significant Impact		
	iii) Seismic-related ground failure, including liquefaction?	Less than Significant Impact		
	iv) Landslides?	Less than Significant Impact		
b)	Result in substantial soil erosion or the loss of topsoil?	Less than Significant Impact		
c)	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	Less than Significant Impact		
d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	Less than Significant Impact		
e)	Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	No Impact		
IX.	HAZARDS AND HAZARDOUS MATERIALS. Would the project:			
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	Less than Significant Impact		
g)	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	Less than Significant Impact		
X. I	HYDROLOGY AND WATER QUALITY. Would the project:			
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:			
	i) result in a substantial erosion or siltation on- or off-site;	Less than Significant Impact		
	 substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; 	Less than Significant Impact		
	 create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or 	Less than Significant Impact		
	iv) impede or redirect flood flows?	No Impact		
d)	In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	No Impact		
e)	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	Less than Significant Impact		
XI.	LAND USE AND PLANNING. Would the project:			
a)	Physically divide an established community?	No Impact		
b)	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	No Impact		
XII.	MINERAL RESOURCES. Would the project:			
a)	Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?	No Impact		
b)	Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	No Impact		

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	ole 6-1 Impacts Found Not to Be Significant	
	. NOISE. Would the project result in.	
c)	For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	No Impact
XIV	. POPULATION AND HOUSING. Would the project:	
a)	Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	No Impact
b)	Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	No Impact
phy cou per	PUBLIC SERVICES. Would the project result in substantial adverse physical sically altered governmental facilities, need for new or physically altered go ld cause significant environmental impacts, in order to maintain acceptable formance objectives for any of the public services:	vernmental facilities, the construction of which service ratios, response times or other
<u>a)</u>	Fire protection?	Less than Significant Impact
b)	Police protection?	Less than Significant Impact
<u>c)</u>	Schools?	No Impact
<u>d)</u>	Parks?	Less than Significant Impact
e)	Other public facilities?	No Impact
	. RECREATION.	
a) 	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	No Impact
b)	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	No Impact
XVI	II. Tribal Cultural Resources.	
a)	Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:	
	i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	In accordance with Assembly Bill (AB) 52 and PRC section 21080.3.1, the District sent formal notification letters of the Proposed Project, dated January 5, 2023, to two Native American tribes that have requested notification from the District: the Gabrieleño Band of Mission Indians – Kizh Nation and the Torres Martinez Desert Cahuilla Indians. No responses were received from the Native American tribes. Therefore, consultation did not take place. No known resources within the campus area were identified as tribal cultural resources as defined in PRC section 21074. No tribal cultural resources that are listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources are known within the campus

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Tak	ole 6-1 Impacts Found Not to Be Significant	
	ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	No known resources within the campus area were identified as tribal cultural resources as defined in PRC section 21074. As such, it is not anticipated that tribal cultural resources would be encountered during construction-related ground disturbing activities. Impacts are less-than-significant.
XIX	. UTILITIES AND SERVICE SYSTEMS. Would the project:	
a) 	Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	Less than Significant Impact
b)	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	Less than Significant Impact
c)	Result in a determination by the waste water treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	Less than Significant Impact
d)	Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	Less than Significant Impact
e)	Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	Less than Significant Impact
	WILDFIRE. If located in or near state responsibility areas or lands classified project:	as very high fire hazard severity zones, would
a)	Substantially impair an adopted emergency response plan or emergency evacuation plan?	No Impact
b)	Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	No Impact
c)	Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	No Impact
d)	Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	Less than Significant Impact

6.3 SIGNIFICANT IRREVERSIBLE CHANGES DUE TO THE PROPOSED PROJECT

The CEQA Guidelines requires that an Environmental Impact Report (EIR) describe any significant irreversible environmental changes that would be caused by the proposed project should it be implemented. Specifically, Section 15126.2(d) of the CEQA Guidelines states:

Use of nonrenewable resources during the initial and continued phases of the project may be irreversible since a large commitment of resources makes removal or nonuse thereafter unlikely. Primary impacts and, particularly, secondary impacts (such as highways improvement which provides access to a previously inaccessible area) generally commit future generations to similar uses. Also, irreversible damage can result from environmental accidents associated with the project. Irretrievable commitments of resources should be evaluated to assure that such current consumption is justified.

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The following are the significant irreversible changes that would be caused by implementation of the Proposed Project:

- Implementation of the Proposed Project would include construction activities that would require the commitment of nonrenewable and/or slowly renewable resources, including gasoline, diesel fuel, and electricity; human resources; and natural resources such as lumber and other forest products, sand and gravel, asphalt, steel, copper, lead, other metals, and water.
- Operation of the Proposed Project would require continued use of natural gas and electricity, petroleumbased fuels, fossil fuels, and water, similar to existing school operations.
- Operation of the Proposed Project would require a continued commitment of social services and public
 maintenance services (e.g., police, fire, and sewer and water services), similar to that existing for the school's
 current operations.

The commitment of resources required for the proposed renovations and modernization of the campus and continued operation of the existing elementary school would limit the availability of resources for future generations or for other uses during the life of the Proposed Project.

6.4 GROWTH-INDUCING IMPACTS OF THE PROPOSED PROJECT

Pursuant to §§ 15126(d) and 15126.2(d) of the CEQA Guidelines, this section is provided to examine ways in which the Proposed Project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment. Also required is an assessment of other projects that would foster other activities which could affect the environment, individually or cumulatively. To address this issue, potential growth-inducing effects will be examined through analysis of the following questions:

- Would this project remove obstacles to growth, e.g., through the construction or extension of major infrastructure facilities that do not presently exist in the Project area, or through changes in existing regulations pertaining to land development?
- Would this Project result in the need to expand one or more public services to maintain desired levels of service?
- Would this Project encourage or facilitate economic effects that could result in other activities that could significantly affect the environment?
- Would approval of this Project involve some precedent-setting action that could encourage and facilitate other activities that could significantly affect the environment?

Growth-inducing effects are not to be construed as necessarily beneficial, detrimental, or of little significance to the environment. This issue is presented to provide additional information on ways in which the Proposed

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Project could contribute to significant changes in the environment, beyond the direct consequences of developing the Project examined in the preceding sections of this DEIR.

Would this project remove obstacles to growth, e.g., through the construction or extension of major infrastructure facilities that do not presently exist in the project area, or through changes in existing regulations pertaining to land development?

The Proposed Project would renovate and modernize the facilities on the existing McKinley Elementary School (ES) campus. The Proposed Project includes improvements to educational facilities that would accommodate current and future continued use of the existing elementary school that serves the surrounding community. The Proposed Project's Site is in an urban area served by existing infrastructure, including water mains, sewer mains, electricity, and natural gas services. The Proposed Project would not change the designated land use of the Proposed Project's Site and would not change the existing regulations pertaining to land development. The Proposed Project would not remove obstacles to growth or affect population growth.

Would this project result in the need to expand one or more public services to maintain desired levels of service?

The Proposed Project would renovate and modernize the McKinley ES campus to serve the existing student population and would not increase school capacity. Therefore, the Proposed Project would not require expansion of facilities and personnel for fire protection or police services to maintain desired levels of service. The Proposed Project would not result in growth-inducing impacts related to public services.

Would this project encourage or facilitate economic effects that could result in other activities that could significantly affect the environment?

The Proposed Project's construction workers would be drawn from the regional labor force and would not attract new workers to the region. Operation of the Proposed Project would not result in an increase of staff at the McKinley ES campus because it would accommodate the existing school operations and programs. The Proposed Project would not change the uses on the campus. The Proposed Project would not encourage or facilitate economic effects that would result in other activities.

Would approval of this project involve some precedent-setting action that could encourage and facilitate other activities that could significantly affect the environment?

The Proposed Project would renovate and modernize facilities at the existing McKinley ES campus to align with the Santa Monica–Malibu Unified School District's (District) Districtwide Educational Specifications for developing future learning environments. District approval would not set a precedent that could encourage and facilitate local and regional activities and government actions that could significantly affect the environment. School enhancement, and rebuild projects and programs are common statewide and nationwide.

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7.1 INTRODUCTION

7.1.1 Purpose and Scope

This chapter presents the alternatives analysis for the McKinley Elementary School Campus Master Plan Project (Proposed Project), as required by the California Environmental Quality Act (CEQA). The discussion includes an explanation of the methodology used to select alternatives to the Proposed Project, with the intent of identifying potentially feasible alternatives that could avoid or substantially lessen the significant impacts identified for the Proposed Project while still meeting most of the basic Project objectives. This chapter identifies a reasonable range of alternatives that meet these criteria, and these alternatives are evaluated with respect to minimizing adverse environmental effects as compared to the Proposed Project. It describes other alternatives and alternative concepts that were considered but eliminated from detailed consideration and reasons for their elimination. For the alternatives selected for analysis, this chapter evaluates the impacts of the alternatives with those of the Proposed Project. Finally, as required under CEQA Guidelines § 15126.6(e), based on this analysis, this chapter then discusses the Environmentally Superior Alternative.

CEQA requires that an Environmental Impact Report (EIR) include a discussion of reasonable project alternatives that would "feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any significant effects of the project and evaluate the comparative merits of the alternatives" (CEQA Guidelines, § 15126.6[a]). As required by CEQA, this chapter identifies and evaluates potential alternatives to the Proposed Project.

Section 15126.6 of the CEQA Guidelines explains the foundation and legal requirements for the alternatives analysis in an EIR. Key provisions are:

- "[T]he discussion of alternatives shall focus on alternatives to the project or its location which are capable of avoiding or substantially lessening any significant effects of the project, even if these alternatives would impede to some degree the attainment of the project objectives, or would be more costly." (§ 15126.6[b].)
- "The specific alternative of 'no project' shall also be evaluated along with its impact." (§ 15126.6[e][1].)
- "The no project analysis shall discuss the existing conditions at the time the notice of preparation is published, or if no notice of preparation is published, at the time environmental analysis is commenced, as well as what would be reasonably expected to occur in the foreseeable future if the project were not approved, based on current plans and consistent with available infrastructure and community services. If

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the environmentally superior alternative is the 'no project' alternative, the EIR shall also identify an environmentally superior alternative among the other alternatives." (§ 15126.6[e][2].)

- "The range of alternatives required in an EIR is governed by a 'rule of reason' that requires the EIR to set forth only those alternatives necessary to permit a reasoned choice. The alternatives shall be limited to ones that would avoid or substantially lessen any of the significant effects of the project." (15126.6[f].)
- "Among the factors that may be taken into account when addressing the feasibility of alternatives are site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, jurisdictional boundaries..., and whether the proponent can reasonably acquire, control or otherwise have access to the alternative site (or the site is already owned by the proponent)." (§ 15126.6[f][1].)
- "Only locations that would avoid or substantially lessen any of the significant effects of the project need be considered for inclusion in the EIR." (§ 15126.6[f][2][A].)
- "An EIR need not consider an alternative whose effect cannot be reasonably ascertained and whose implementation is remote and speculative." (§ 15126.6[f][3].)

For each development alternative, this analysis:

- Describes the alterative.
- Analyzes the impact of the alternative as compared to the proposed project.
- Identifies the impacts of the project that would be avoided or lessened by the alternative.
- Assesses whether the alternative would meet most of the basic project objectives.
- Evaluates the comparative merits of the alternative and the project.

According to section 15126.6(d) of the CEQA Guidelines, "[i]f an alternative would cause...significant effects in addition those that would be caused by the project as proposed, the significant effects of the alternative shall be discussed, but in less detail than the significant effects of the project as proposed."

7.2 FACTORS CONSIDERED WHEN DEVELOPING ALTERNATIVES

This section describes the basis for determining the range of CEQA alternatives and identifies the specific alternatives that are analyzed in this Draft EIR (DEIR). The primary factors considered when determining feasible alternatives to the Proposed Project are the identified project objectives and those impacts that have been identified for the Proposed Project. Therefore, these two considerations are summarized below.

7.2.1 Project Objectives

As described in Section 3.3, *Project Objectives*, the following objectives have been established for the Proposed Project and will aid decision makers in their review of the Proposed Project, the Proposed Project alternatives, and associated environmental impacts.

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- Provide properly sized learning environments to accommodate students and the variety of 21st century learning activities at the McKinley ES campus.
- Advance educational facilities to support 21st century learning and properly support the enrollment at the McKinley ES campus.
- 3. Improve learning at McKinley ES by replacing undersized and inflexible facilities with larger, functional flexible spaces that accommodate modern, diverse learning styles and allow for variable uses such as, rotational learning within the classroom, project-based learning experiences that allow simultaneous individualized, small group, and large group instruction.
- 4. Provide enhanced, modern, and functional support spaces, such as libraries, cafeteria, labs, maker spaces, and other student services, that promote whole child development.
- 5. Organize the campus to provide safe student circulation.
- 6. Reorganize open space and foster intercampus circulation.
- 7. Provide safe and secure schools.
- 8. Maintain the campus' existing student capacity.

7.3 SUMMARY OF SIGNIFICANT EFFECTS OF THE PROPOSED PROJECT

The Proposed Project, which involves implementation of a Campus Master Plan, would be constructed in three phases and would occur over approximately 5.7 acres of the 6.48-acre District-owned campus. Redevelopment and modernization of McKinley ES includes the demolition and removal of some existing structures, renovation of structures to remain, and construction of two new buildings and outdoor facilities. Eleven existing portable classrooms (B1 through B11), playground restrooms, one modular building (Building D), and one elevator (serving Building B and C) would be selectively demolished and removed as part of the Proposed Project. Two new classroom buildings would be constructed to replace the 11 portable classrooms to be removed. The existing library and Building C would undergo renovations. Improvements to outdoor recreational areas, circulation improvements including a new drop-off/pick-up area along Chelsea Avenue, and relocation of the parking lot would also be implemented.

The following impacts have been identified for the Proposed Project, as discussed in Chapter 5, *Environmental Analysis*, of this DEIR.

7.3.1 Significant and Unavoidable Impacts

This DEIR did not identify any significant and unavoidable adverse impacts, as defined by CEQA, that would result from implementation of the Proposed Project.

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7.3.2 Significant Impacts That Can Be Mitigated to Less Than Significant

- **Impact 5.3-2:** The Proposed Project would not cause a substantial adverse change in the significance of an archaeological resources pursuant to section 15064.5.
- Impact 5.5-1: Buildout of the Proposed Project would not directly or indirectly destroy a unique paleontological resource.
- Impact 5.7-2: The Proposed Project would not create a significant hazard to the public or the environment
 through reasonably foreseeable upset and accident conditions involving the release of hazardous materials
 into the environment.
- Impact 5.7-3: The Proposed Project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substance, or waste within one-quarter mile of an existing or proposed school. [Threshold H-3]
- Impact 5.10-1: Construction activities would result in temporary noise increases in the vicinity of the Proposed Project in excess of existing established standards. Operational activities would not result in permanent or temporary increase in ambient noise levels in excess of existing established standards.
- Impact 5.10-2: Temporary construction activities would potentially create excessive groundborne vibration and groundborne noise at sensitive receptors.
- Impact 5.12-3: The Proposed Project would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).
- Impact 5.12-4: The Proposed Project would not result in inadequate emergency access.

7.4 ALTERNATIVES CONSIDERED AND REJECTED DURING THE SCOPING/PROJECT PLANNING PROCESS

The following is a discussion of the alternatives considered during the scoping and planning process and the reasons why they were not selected for detailed analysis in this EIR.

7.4.1 Alternative Development Area

CEQA requires that the discussion of alternatives focus on alternatives to the project or its location that are capable of avoiding or substantially lessening any significant effects of the project. The key question and first step in the analysis is whether any of the significant effects of the project would be avoided or substantially lessened by putting the project in another location. Only locations that would avoid or substantially lessen any of the significant effects of the project need be considered for inclusion in the EIR. (CEQA Guidelines § 15126.6[f][2][A].)

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The Proposed Project by design is intended for the McKinley ES campus. Consequently, an alternative off-site location is not a feasible alternative and would not meet the project objectives. Certain impacts that are identified as being potentially significant under the Proposed Project are due primarily to construction-related activity such as inadvertent discovery of significant archaeological resources during excavation and noise impacts. These impacts could potentially occur regardless of the Proposed Project's location. For these reasons, an alternative that is in another location within the District is not addressed in this chapter. Because the Proposed Project's Site is already developed as a school, constructing a new school on a different site would likely increase environmental impacts. For these reasons, this alternative was not considered further.

7.5 ALTERNATIVES SELECTED FOR FURTHER ANALYSIS

The following three alternatives have been determined to represent a reasonable range of alternatives that have the potential to feasibly attain most of the basic objectives of the Proposed Project and may avoid or substantially lessen any of the significant effects of the Proposed Project or ameliorate community concerns. The following alternatives are analyzed in detail in the following sections.

- **Alternative 1**: No-Project Alternative
- Alternative 2: Alternative Location on North Campus
- Alternative 3: Alternate Location on Santa Monica Boulevard Frontage

7.6 NO PROJECT ALTERNATIVE

7.6.1 Description

The CEQA Guidelines require the analysis of a No Project Alternative. Under CEQA, the No Project Alternative must consider the effects of not approving the Proposed Project. The No Project Alternative describes the environmental conditions that exist at the time that the environmental analysis commences, as well as what would reasonably be expected to occur in the foreseeable future if the Proposed Project were not approved (CEQA Guidelines, § 15126.6(e)(2)).

Under the No Project Alternative, the District would not approve any portion of the Proposed Project on the McKinley ES campus, and none of the mitigation measures identified within this DEIR would be necessary. No demolition would occur under the No Project Alternative, because the existing structures on the Proposed Project's Site would be retained. Under the No Project Alternative, it is assumed that the reasonably foreseeable future at the campus would be the continued occupation of the existing buildings and use of the playgrounds within the McKinley ES campus as in current conditions. McKinley ES would not be redeveloped and modernized, and existing buildings would be used by students as needed (portable buildings and Building D) or remain unoccupied. The school would continue to operate under its current conditions, and no changes would take place.

7.6.2 Relationship to Project Objectives

Under the No Project Alternative, none of the District's objectives for the Proposed Project would be met.

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7.6.3 Comparison Analysis of Environmental Effects

7.6.3.1 AESTHETICS

Under this alternative, no structural or any other visual changes to the existing McKinley ES campus facilities would occur. There would be no changes to the physical environment as it relates to aesthetic resources, including light and glare, and no impacts would occur. Overall, the No Project Alternative would avoid the less-than-significant aesthetic impacts of the Proposed Project as well as the less-than-significant light and glare impacts, and impacts under this alternative would be less than those of the Proposed Project.

7.6.3.2 AIR QUALITY

No construction would occur under this alternative; therefore, no construction-related air quality impacts would occur. Construction-related impacts would be less than the less-than-significant impacts of the Proposed Project. Operation (i.e., student enrollment, staffing, and general operational characteristics) under this alternative would remain similar to existing conditions. As discussed in Chapter 3, *Project Description*, the Proposed Project would not change enrollment capacity and staffing of McKinley ES. Therefore, operational-related air quality impacts under this alternative would be similar to the less-than-significant impacts of the Proposed Project.

7.6.3.3 CULTURAL RESOURCES

The No Project Alternative would not demolish any buildings and would not develop new buildings on-site adjacent to the historic district. The No Project Alternative impacts to historic resources would be less than the Proposed Project's less-than-significant impacts. The No Project Alternative would avoid any ground-disturbing activities. Therefore, potential construction-related impacts to subsurface unknown archaeological resources would be avoided and impacts would be less than the Proposed Project. Overall, the No Project Alternative would avoid the less-than-significant (after mitigation) cultural resources impacts of the Proposed Project. Impacts under this alternative would be less than those of the Proposed Project.

7.6.3.4 ENERGY

Under this alternative, construction of new buildings would not occur. Therefore, no construction-related energy consumption would occur, and construction-related impacts to energy would be less than the Proposed Project. The alternative would continue to operate in its existing condition as an elementary school. Therefore, energy demand for electricity and fuel consumption would remain as is and would not affect local or state renewable energy plans. Potential operational-related impacts to energy would be similar to the less-than-significant impacts of the Proposed Project, since neither this alternative nor the Proposed Project would increase student enrollment capacity nor staffing.

7.6.3.5 GEOLOGY AND SOILS

No new construction activities, including grading, would occur under the No Project Alternative. Therefore, potential construction-related impacts to subsurface unknown paleontological resources would be avoided and impacts would be less than the Proposed Project. Overall, the No Project Alternative would avoid the less-

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than-significant after mitigation geology and soil impacts of the Proposed Project and impacts under this alternative would be less than those of the Proposed Project.

7.6.3.6 GREENHOUSE GAS EMISSIONS

Under this alternative, no demolition would occur, and no new construction and modernization would occur. Therefore, no construction-related greenhouse gas (GHG) emissions would occur, and this alternative's GHG emissions would be less than the Proposed Project's less-than-significant impact. The Proposed Project's Site would continue to operate as an elementary school, and GHG emissions would remain unchanged from existing conditions. As with the Proposed Project, the No Project Alternative would not conflict with any applicable plans or policies. Overall, the No Project Alternative would avoid the less-than-significant GHG emissions impacts of the Project and impacts under this alternative would be less than those of the Proposed Project.

7.6.3.7 HAZARDS AND HAZARDOUS MATERIALS

Because no development would occur under the No Project Alternative, construction impacts related to hazards or hazardous materials would be less than the Proposed Project. The alternative would continue to use, transport, and handle small quantities of hazardous materials typical of a school during operation (such as cleaning supplies, science laboratory chemicals, pesticides and landscaping hazardous materials). Therefore, impacts from hazardous materials during operation would be less than significant, similar to the Proposed Project.

7.6.3.8 HYDROLOGY AND WATER QUALITY

Water quality conditions, groundwater supplies, drainage patterns, and surface water runoff would remain the same under the No Project Alternative because no construction or new development would occur. This alternative would not introduce new sources of water pollutants from the construction phase, and the impacts would be less than the Proposed Project during construction. This alternative would continue to operate as an elementary school with the same student enrollment capacity and staffing as existing conditions and the Proposed Project. Therefore, the impacts for the operational phase would be slightly reduced compared to the less-than-significant impacts of the Proposed Project.

7.6.3.9 LAND USE AND PLANNING

Because no development would occur under the No Project Alternative, no changes to uses nor buildings onsite would occur. Therefore, the No Project Alternative would not conflict with any applicable plans. The No Project Alternative's operational impacts would be less than the less-than-significant impacts of the Proposed Project.

7.6.3.10 NOISE

No construction noise impacts would occur under this alternative; therefore, the construction noise impacts would be less than the Proposed Project. Specifically, this alternative would avoid the construction noise impacts to on-site school receptors and would avoid construction vibration impacts. Under this alternative, the campus would continue to operate as an elementary school campus, and operational noise would not increase at the

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residences adjacent to the Proposed Project's Site. The No Project Alternative and the Proposed Project would have similar less-than-significant operational noise impacts. Overall, the No Project Alternative would result in less noise impacts than the Proposed Project, and construction noise and vibration impacts would be avoided.

7.6.3.11 RECREATION

Neither the Proposed Project nor the No Project Alternative increase student capacity and therefore would not increase the demand for new or expanded recreational facilities. This alternative would avoid the Proposed Project's less-than-significant recreational facilities impacts during construction. This alternative would not benefit from the additional recreational opportunities proposed under the Proposed Project, such as the reconfigured playfields and open space throughout the campus. The staffing and student enrollment would not change under this alternative and there would be no increased used of recreational facilities. The No Project Alternative would result in slightly reduced recreational impacts compared to the Proposed Project.

7.6.3.12 TRANSPORTATION

There would be no construction under this alternative, and therefore there would be no impacts as a result of construction-related traffic. The less-than-significant after mitigation impacts of the Proposed Project would be reduced under the No Project Alternative. The No Project Alternative would not reconfigure parking lots, improve drop-off/pick-up areas, or improve pedestrian circulation. Less-than-significant impacts related to vehicle miles traveled (VMT) would be the same as the Proposed Project, as the number of staff and students would not change. Therefore, the impacts related to traffic would be less than or similar to the Proposed Project.

7.6.4 Conclusion

This alternative would lessen environmental impacts related to construction in all topic areas, since no construction would occur under this alternative. The No Project Alternative would not result in any temporary construction impacts identified for the Proposed Project. This alternative would not cause operational impacts associated with aesthetics and cultural resources. Because the Proposed Project would not change operational conditions of the campus, including student enrollment and staffing, the No Project Alternative would result in similar operational impacts in the areas of air quality, energy, hazards and hazardous materials, hydrology and water quality.

The No Project Alternative does not meet any of the Project's objectives. Additionally, this alternative would not realize any of the environmentally beneficial outcomes of the Proposed Project. Overall, the No Project Alternative results in reduced impacts throughout all environmental topics and avoidance of any significant and unavoidable impact.

7.7 ALTERNATIVE 2: ALTERNATIVE LOCATION ON NORTH CAMPUS

7.7.1 Description

Under this alternative, the proposed two-story classroom buildings that would be constructed during Phase 3 of the Proposed Project, would be located at alternate locations on the campus, including at the northeast

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portion of the campus near the intersection Chelsea Avenue and Arizona Avenue, along the northern boundary near Arizona Avenue, at the northwest portion of the campus near the intersection of Arizona Avenue and 23rd Court, and along the western portion of the campus near 23rd Court (see Figure 7-1, *Alternative Location on North Campus*).

7.7.2 Relationship to Project Objectives

Alternative 2, *Alternative Location on North Campus*, would meet project objectives, except for Objective 5, organize the campus to provide safe student circulation, and Objective 6, reorganize open space and foster intercampus circulation. Under this alternative the new classroom buildings would not be near the instructional core of the campus and would result in students traveling further from drop-off/pick-up locations.

7.7.3 Comparison Analysis of Environmental Effects

7.7.3.1 AESTHETICS

Since Alternative 2 would largely result in the same buildout as the Proposed Project, it would have similar impacts as the Proposed Project related to scenic quality and community character. Compared to the Proposed Project, this alternative would have similar impacts related to light and glare as the Proposed Project. Overall, aesthetic impacts would be similar to the Proposed Project's less-than-significant impacts.

7.7.3.2 AIR QUALITY

Alternative 2 would result in similar construction activities as the Proposed Project, including equipment, earthmoving activities, construction vehicle trips, material consumption, etc.— and in overall duration. Therefore, this alternative would result in similar emissions of criteria pollutants during the construction phases compared to the Proposed Project.

This alternative results in the same buildout as the Proposed Project with the exception of the location of the proposed two-story building. This alternative would have the same enrollment capacity and staffing as the Proposed Project, and air quality from vehicles trips would remain less than significant, as with the Proposed Project. Air quality impacts during operation of this alternative would remain the same compared to the Proposed Project. Alternative 2 would not reduce the impacts to air quality compared to the Proposed Project, and air quality impacts associated with this alternative would be similar to that of the Proposed Project.

7.7.3.3 CULTURAL RESOURCES

Alternative 2 would still construct two two-story classroom buildings outside of the historic district on the campus. Alternative 2 would result in similar less-than-significant impacts related to historical resources compared to the Proposed Project. Alternative 2 would result in similar overall construction activities, including excavation, grading, and other earthwork. Therefore, the potential to encounter subsurface archaeological resources would be similar to the Proposed Project. Similar to the Proposed Project, **Mitigation Measure CUL-1** would be required to reduce impacts to less than significant. This alternative would have a similar impact to cultural resources compared to the Proposed Project.

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7.7.3.4 **ENERGY**

Under Alternative 2, energy consumption during construction would be similar to the Proposed Project. During operation, this alternative would not affect transportation energy and fuel consumption, and electricity demand under this alternative would be similar to the Proposed Project since the two-story building proposed for the Project would still be constructed, in another location of the campus. Therefore, electricity demand and fuel consumption during operation would be similar compared to the Proposed Project. Overall, energy impacts would result in similar impacts compared to the Proposed Project's less-than-significant impact.

7.7.3.5 GEOLOGY AND SOILS

Alternative 2 would occur on the same Proposed Project's Site. Construction activities and earthwork would be similar under this alternative compared to the Proposed Project; thus, the potential to uncover unknown subsurface paleontological resources would be similar to the Proposed Project. Therefore, this alternative also requires the implementation of **Mitigation Measure GEO-1** to reduce impacts to a less-than-significant level. Like the proposed project, impacts would be less than significant with mitigation.

7.7.3.6 GREENHOUSE GAS EMISSIONS

Under Alternative 2, construction activities on the campus would be similar to the Proposed Project; thus, energy consumption and GHG emissions would be similar to the Proposed Project. During operation, this alternative would result in similar GHG emissions as with the Proposed Project. Therefore, the impacts associated with GHG emissions would be similar to the Proposed Project's less-than-significant impact.

7.7.3.7 HAZARDS AND HAZARDOUS MATERIALS

Development under Alternative 2 would require demolition and grading. Potential hazards would occur from the accidental release of hazardous materials due to potential exposure to impacted soils and hazardous building materials. However, impacts from hazards and hazardous materials would be less than significant with the implementation of **Mitigation Measures HAZ-1** and **HAZ-2**, similar to the Proposed Project. As with the Proposed Project, the transport, use, and storage of hazardous materials would be mitigated by comprehensive regulations. The overall hazards impacts associated with this alternative would be less than significant with implementation of **Mitigation Measures HAZ-1** and **HAZ-2**, and therefore, similar to the Proposed Project.

7.7.3.8 HYDROLOGY AND WATER QUALITY

Similar to the Proposed Project, construction and operation of Alternative 2 could generate pollutants that impact water quality. However, similar to the Proposed Project, a Construction General Permit and stormwater pollution prevention plan (SWPPP) would be required. Implementation of best management practices (BMPs) in the SWPPP would ensure water quality impacts are minimized to less than significant levels. Adherence to existing regulations, implementation of required BMPs, and final design specifications would ensure impacts to hydrology and water quality are less than significant. Similar to the Proposed Project, Alternative 2 would not change current enrollment or staffing, and therefore, overall water demand is not expected to increase. Overall, impacts would be similar to the Proposed Project's.

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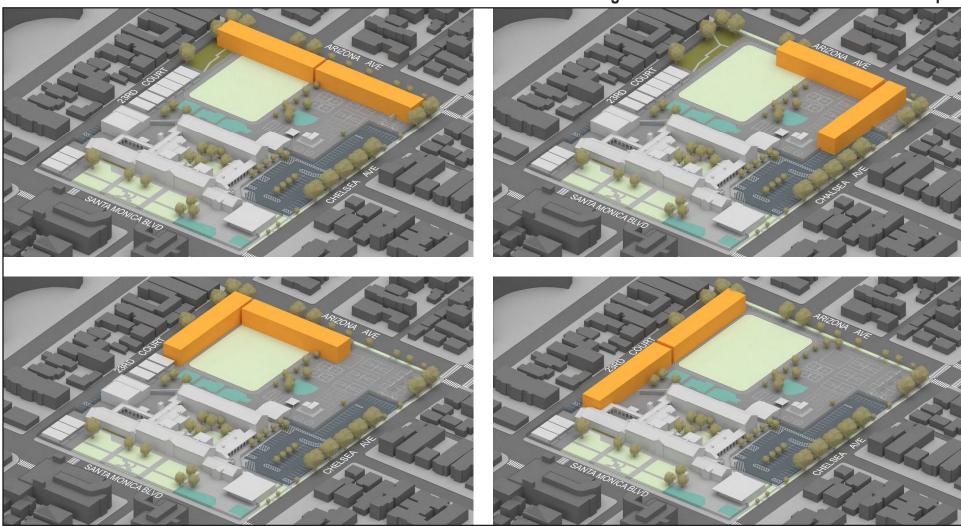


Figure 7-1 - Alternative Location on North Campus



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7.7.3.9 LAND USE AND PLANNING

The Proposed Project would be constructed under this alternative, with the exception of the location of the proposed two-story building. Because the proposed two-story building would still be constructed within the school boundaries, Alternative 2 would not change the impacts associated with land use and planning, and impacts would be less than significant and similar to the Proposed Project.

7.7.3.10 NOISE

Development under Alternative 2 would still require construction and associated site improvements. While construction would not occur only across residences along Chelsea Avenue, construction would occur on portions of the campus along Chelsea Avenue or across residences along 23rd Court. As with the Proposed Project, it is anticipated that construction noise and vibration impacts would be less than significant with the implementation of **Mitigation Measures N-1** and **N-2**. Like the Proposed Project, operational impacts would be less-than-significant. Overall, Alternative 2 would result in similar noise impacts during construction and operation compared to the Proposed Project.

7.7.3.11 RECREATION

Alternative 2 would have the same enrollment capacity and staffing as the Proposed Project. Additionally, this alternative would have the same buildout as the Proposed Project, with the exception of the location of the proposed two-story building. Therefore, this alternative would result in similar impacts to recreational facilities as the Proposed Project.

7.7.3.12 TRANSPORTATION

Alternative 2 would require the mobilization of workers, vendors, equipment, and haul trucks to and from the campus during construction. Similar to the Proposed Project, Alternative 2 could require temporary closures of the public right-of-way adjacent to the campus or increase safety hazards due to construction vehicles entering and exiting the campus. Construction of Alternative 2 would result in traffic hazard impacts and would require **Mitigation Measure T-1** to reduce impacts. Overall, Alternative 2 would result in similar transportation impacts during construction compared to the Proposed Project.

Implementation of Alternative 2 would not provide the drop-off/pick-up modifications along Chelsea Avenue, as described in the Proposed Project. Alternative 2 would not improve student safety and circulation on-campus because the new classrooms buildings would be disconnected from the instructional core of the campus. Alternative 2 would reduce student safety during drop-off/pick-up because students would be required to walk across the campus. Overall, Alternative 2 would result in greater operational circulation and pedestrian safety hazards compared to the Proposed Project.

7.7.4 Conclusion

Alternative 2 would have similar impacts as the Proposed Project for aesthetics, air quality, cultural resources, energy, greenhouse gas emissions, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, recreation, and transportation. Alternative 2 would meet Objectives 1

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through 4, and 7 through 8. This alternative would not result in the full benefits of reconfiguring the campus to provide safe student circulation (Objective 5), and reorganizing open space and foster intercampus circulation (Objective 6).

7.8 ALTERNATIVE LOCATION ON SANTA MONICA BOULEVARD FRONTAGE

7.8.1 Description

Under this alternative, the proposed two-story classroom buildings, would be located within the existing Santa Monica Boulevard Quad along Santa Monica Boulevard (see Figure 7-2, *Alternative Location on Santa Monica Boulevard Frontage*).

7.8.2 Relationship to Project Objectives

Alternative 3, Alternative Location on Santa Monica Boulevard Frontage, would meet all project objectives, except for Objective 5, organize the campus to provide safe student circulation, and Objective 6, reorganize open space and foster intercampus circulation.

7.8.3 Comparison Analysis of Environmental Effects

7.8.3.1 AESTHETICS

Alternative 3 would construct a new classroom building in front of the existing main Santa Monica Boulevard frontage. The new classroom building would alter the existing views of the McKinley ES Building C, Santa Monica Boulevard Quad, and would alter the existing setback of the Santa Monica Boulevard Quad from Santa Monica Boulevard which is considered a character defining feature. Compared to the Proposed Project, this alternative would have similar impacts related to light and glare as the Proposed Project. Overall, aesthetic impacts would be similar to the Proposed Project's less-than-significant impacts.

7.8.3.2 AIR QUALITY

Alternative 3 would result in similar construction activities as the Proposed Project, including equipment, earthmoving activities, construction vehicle trips, material consumption, etc.— and in overall duration. Therefore, this alternative would result in similar emissions of criteria pollutants during the construction phases compared to the Proposed Project.

This alternative results in the same buildout as the Proposed Project with the exception of the location of the proposed two-story building. This alternative would have the same enrollment capacity and staffing as the Proposed Project, and air quality from vehicles trips would remain less than significant, as with the Proposed Project. Air quality impacts during operation of this alternative would remain the same compared to the Proposed Project. Alternative 3 would not reduce the impacts to air quality compared to the Proposed Project, and air quality impacts associated with this alternative would be similar to that of the Proposed Project.

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Figure 7-2 - Alternative Location on Santa Monica Boulevard Frontage



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7.8.3.3 CULTURAL RESOURCES

Alternative 3 would construct new two-story classroom buildings within the historic district on the campus. Alternative 3 would construct a new classroom building in front of the existing main Santa Monica Boulevard frontage. The Santa Monica Boulevard Quad is a main character defining feature of the historic district because it reflects the importance given to outdoor spaces in school design during the period of significance (1923 to 1937). The existing setback of the Santa Monica Boulevard Quad from Santa Monica Boulevard contributes to the integrity to the historic district due to its location, design, feeling, and association. The new classroom building would alter the existing views of the McKinley ES Building C and Santa Monica Boulevard Quad. This alternative would also alter the existing setback of the Santa Monica Boulevard Quad from Santa Monica Boulevard which is considered a character defining feature and it would alter the Santa Monica Boulevard Quad feature. This would result in potential impacts to the integrity of the historic district. This alternative would result in similar overall construction activities, including excavation, grading, and other earthwork. Therefore, the potential to encounter subsurface archaeological resources would be similar to the Proposed Project. Similar to the Proposed Project, Mitigation Measure CUL-1 would be required to reduce impacts to less than significant. This alternative would have greater impacts to cultural resources, specifically to historical resources, compared to the Proposed Project.

7.8.3.4 **ENERGY**

Under Alternative 3, energy consumption during construction would be similar to the Proposed Project. During operation, this alternative would not affect transportation energy and fuel consumption, and electricity demand under this alternative would be similar to the Proposed Project since the two-story building proposed for the Project would still be constructed, in another location of the campus. Therefore, electricity demand and fuel consumption during operation would be similar compared to the Proposed Project. Overall, energy impacts would result in similar impacts compared to the Proposed Project's less-than-significant impact.

7.8.3.5 GEOLOGY AND SOILS

Alternative 3 would occur on the same Proposed Project's Site. Construction activities and earthwork would be similar under this alternative compared to the Proposed Project; thus, the potential to uncover unknown subsurface paleontological resources would be similar to the Proposed Project. Therefore, this alternative also requires the implementation of **Mitigation Measure GEO-1** to reduce impacts to a less-than-significant level. Overall, the impact of Alternative 3 related to geology and soils would be similar to the Proposed Project.

7.8.3.6 GREENHOUSE GAS EMISSIONS

Under Alternative 3, construction activities on the campus would be similar to the Proposed Project; thus, energy consumption and GHG emissions would be similar to the Proposed Project. During operation, this alternative would result in similar GHG emissions as with the Proposed Project. Alternative 3's VMT would be same as the Proposed Project. Therefore, the impacts associated with GHG emissions would be similar to the Proposed Project's less-than-significant impact.

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7.8.3.7 HAZARDS AND HAZARDOUS MATERIALS

Development under Alternative 3 would require demolition and grading. Potential hazards would occur from the accidental release of hazardous materials due to potential exposure to impacted soils and hazardous building materials. However, impacts from hazards and hazardous materials would be less than significant with the implementation of **Mitigation Measures HAZ-1** and **HAZ-2**, similar to the Proposed Project. As with the proposed project, the transport, use, and storage of hazardous materials would be mitigated by comprehensive regulations. The overall hazards impacts associated with this alternative would be less than significant with implementation of **Mitigation Measures HAZ-1** and **HAZ-2**, and therefore, similar to the Proposed Project.

7.8.3.8 HYDROLOGY AND WATER QUALITY

Similar to the Proposed Project, construction and operation of Alternative 3 could generate pollutants that impact water quality. However, similar to the Proposed Project, a Construction General Permit and stormwater pollution prevention plan (SWPPP) would be required. Implementation of best management practices (BMPs) in the SWPPP would ensure water quality impacts are minimized to less than significant levels. Adherence to existing regulations, implementation of required BMPs, and final design specifications would ensure impacts to hydrology and water quality are less than significant. Similar to the Proposed Project, Alternative 3 would not change current enrollment or staffing, and therefore, overall water demand is not expected to increase. Overall, impacts would be similar to the Proposed Project's.

7.8.3.9 LAND USE AND PLANNING

The Proposed Project would be constructed under this alternative, with the exception of the location of the proposed two-story building. Because the proposed two-story building would still be constructed within the school boundaries, Alternative 3 would not change the impacts associated with land use and planning, and impacts would be less than significant and similar to the Proposed Project.

7.8.3.10 NOISE

Development under Alternative 3 would still require construction and associated site improvements. As with the Proposed Project, it is anticipated that construction noise and vibration impacts would be less than significant with the implementation of Mitigation Measures N-1 and N-2. Like the Proposed Project, operational impacts would be less-than-significant. Overall, Alternative 3 would result in similar noise impacts during construction and operation compared to the Proposed Project.

7.8.3.11 RECREATION

Alternative 3 would have the same enrollment capacity and staffing as the Proposed Project. Additionally, this alternative would have the same buildout as the Proposed Project, with the exception of the location of the proposed two-story building. Therefore, this alternative would result in similar impacts to recreational facilities as the Proposed Project.

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7.8.3.12 TRANSPORTATION

Alternative 3 would require the mobilization of workers, vendors, equipment, and haul trucks to and from the campus during construction. Similar to the Proposed Project, Alternative 3 could require temporary closures of the public right-of-way adjacent to the campus or increase safety hazards due to construction vehicles entering and exiting the campus. Construction of Alternative 3 would result in traffic hazard impacts and would require **Mitigation Measure T-1** to reduce impacts. Overall, Alternative 3 would result in similar transportation impacts during construction compared to the Proposed Project.

Since the new structures would be located along Santa Monica Boulevard, implementation of Alternative 3 would not include the drop-off/pick-up modifications along Chelsea Avenue, as described in the Proposed Project, because the main entrance of the campus would remain at Santa Monica Boulevard. Therefore, this could result in increased traffic and pedestrian safety issues during drop-off/pick-up along the Santa Monica Boulevard.

Overall, Alternative 3 would result in greater operational circulation and pedestrian safety hazards compared to the Proposed Project.

7.8.4 Conclusion

Alternative 3 would have similar impacts as the Proposed Project for aesthetics, air quality, energy, greenhouse gas emissions, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, recreation, and transportation. Alternative 3 would result in greater impacts to historical resources. Alternative 3 would meet Objectives 1 through 4, and 7 through 8. This alternative would not result in the full benefits of reconfiguring the campus to provide safe student circulation (Objective 5), and reorganizing open space and foster intercampus circulation (Objective 6).

7.9 ENVIRONMENTALLY SUPERIOR ALTERNATIVE

"Among the factors that may be used to eliminate alternatives from detailed consideration in an EIR are: (i) failure to meet most of the basic project objectives, (ii) infeasibility, or (iii) inability to avoid significant environmental impacts" (CEQA Guidelines, § 15126.6[c]).

An EIR must identify an "environmentally superior" alternative, and where the No Project Alternative is identified as environmentally superior, the EIR must identify an environmentally superior alternative from the others evaluated. Each alternative's environmental impacts are compared to the Proposed Project and determined to result in either reduced impacts compared to the Proposed Project, the same or similar impacts as the Proposed Project, or a more severe impact than the Proposed Project. Alternative 2 (Alternate Location on North Campus) was identified as "environmentally superior" to the Proposed Project.

Alternative 2 has the least impact on the environment because it would not alter the public view of the existing McKinley ES campus from Chelsea Avenue. However, this Alternative would not generate the full environmental enhancements under the Proposed Project. These factors will be considered by the SMMUSD decision makers in determining whether to approve the Proposed Project or one of the alternatives identified.

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