

**CALIFORNIA ENVIRONMENTAL QUALITY ACT
MITIGATION MONITORING AND REPORTING PROGRAM
STATE CLEARINGHOUSE NO. 2022020344**

PREPARED FOR:
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of Natural History Foundation
on behalf of the County
of Los Angeles Museum of Natural History
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1.1 INTRODUCTION

The County of Los Angeles (County) has prepared the following Mitigation Monitoring and Reporting Program (MMRP) for the Final Environmental Impact Report (Final EIR), State Clearinghouse Number 2022020344, prepared for the Los Angeles County La Brea Tar Pits Master Plan (project). The Final EIR analyzes the significant and potentially significant environmental impacts, which may occur because of the project. The Draft EIR was published on September 11, 2023, and circulated for an initial public review for a period of 45 days. In compliance with the California Environmental Quality Act (CEQA), a Notice of Completion and the Draft EIR were filed with the State Clearinghouse at the time of publishing and are posted on the State Clearinghouse's CEQAnet Web Portal. The County, as the CEQA lead agency, prepared the Final EIR for the project and published it in January 2025.

1.2 STATUTORY REQUIREMENTS

When a Lead Agency makes findings on significant environmental effects identified in an EIR, the agency must also adopt a "reporting or monitoring program for the changes to the project which it has adopted or made a condition of approval in order to mitigate or avoid significant effects on the environment" (Public Resources Code [PRC] Section 21081.6(a) and California Environmental Quality Act [CEQA] Guidelines Sections 15091(d) and 15097). The MMRP is implemented to ensure that the mitigation measures and project revisions identified in the EIR are implemented. Therefore, the MMRP must include all changes in the proposed project either adopted by the project proponent or made conditions of approval by the Lead or Responsible Agency.

1.3 ADMINISTRATION OF THE MITIGATION MONITORING AND REPORTING PROGRAM

La Brea Tar Pits, the George C. Page Museum (Page Museum), and associated facilities, are owned by the County of Los Angeles (County) but are managed by the non-profit Los Angeles County Museum of Natural History Foundation (Foundation). The Foundation's role is to carry out all County services including public access and programming, administration, and operation for the County of Los Angeles Museum of Natural History (Museum of Natural History), including La Brea Tar Pits and the Page Museum under the oversight of the County.

The County, as Lead Agency, acting through the Foundation proposes a redevelopment, or "reimagining," of the 13-acre La Brea Tar Pits site. The proposed project is referred to as the La Brea Tar Pits Master Plan. The project includes a reimagined site design, expansion, and upgrades for the Tar Pits complex, including renovations to the Page Museum, and development of a new museum building. The project site is located at 5801 Wilshire Boulevard in Los Angeles. The project site is within Hancock Park and is adjacent to the Los Angeles County Museum of Art (LACMA).

The California Environmental Quality Act (CEQA) Guidelines identify the Lead Agency as the public agency with the principal responsibility for carrying out or approving a project (State CEQA Guidelines Section 15367). The County is the CEQA Lead Agency for the project because the project is on

County-owned land; the Museum of Natural History is a County departmental unit.¹ Thus, the County is responsible for the adoption of the MMRP.

According to State CEQA Guidelines Section 15097(a), a public agency may delegate reporting or monitoring responsibilities to another public agency or to a private entity that accepts the delegation. The County may delegate responsibility for verifying and documenting compliance with the MMRP to the Foundation as coordinator of the project and its construction, and the Foundation will be responsible for compliance. However, until mitigation measures have been completed, the County, as the Lead Agency, remains responsible for ensuring that the implementation of the measures occurs in accordance with the program.

1.4 MITIGATION MEASURES

Table 1-1 is structured to enable quick reference to mitigation measures and the associated monitoring program based on the environmental resource. The numbering of mitigation measures correlates with numbering of measures found in Chapter 5, Environmental Impact Analysis, of Volume II of the Final EIR, and as included in Chapter 2, Summary, of Volume II of the Final EIR. The table also describes the timing for mitigation measure implementation (e.g., when the measure shall be implemented) and the responsible parties—such as the Museum of Natural History, County of Los Angeles Department of Public Works, and/or County of Los Angeles Department of Regional Planning—that are responsible for ensuring implementation of all aspects of each measure.

¹ In accordance with Chapter 2.94 of the Los Angeles County Code and other operating agreements, the County Museum of Natural History is a department of the County and has administrative charge and control over all County matters relating to history and science, and shall also include the administration of Hancock Park (except that area of said park devoted to the Los Angeles County Museum of Art [LACMA]), and the care, safeguarding, and maintenance of all exhibits, equipment, and structural improvements directly relating to exhibits, the administration and maintenance of Los Angeles County Museum, and other property hereafter acquired for or devoted to history and science. For consistency with the Los Angeles County Code, this document refers to this governmental department as the “Museum of Natural History.” In addition, when it is important to specify that the document is referring to the physical museum location rather than the governmental department, this document refers to the Natural History Museum of Los Angeles County (Natural History Museum), which is located at 900 Exposition Boulevard, Los Angeles, California, 90007.

Table 1-1. Mitigation Monitoring and Reporting Program

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
Aesthetics					
AES/mm-4.1	<p>During project construction, the following measures shall be required:</p> <ul style="list-style-type: none">The hours of construction activities shall be limited to between 7:00 a.m. and 9:00 p.m. on weekdays and between 8:00 a.m. and 6:00 p.m. on Saturdays and national holidays, with no construction permitted on Sundays.If construction during evening hours is deemed necessary, construction-related illumination shall be used for safety and security purposes only. Additionally, any construction lighting shall be directed toward the area undergoing work, which requires that construction lighting be shielded and/or aimed so that no direct beam illumination would fall outside of the project site boundary.	Include measures on grading and building plans and implement during equipment use on the project site.	Prior to finalization and approval of construction, grading, and building plans and approvals and during construction.	Foundation	County Museum of Natural History
AES/mm-4.2	<p>The project shall implement the following design features:</p> <ul style="list-style-type: none">All facades and/or building surfaces including glass windows shall be constructed using non-reflective materials or be treated with non-reflective coating.All light emanating from new uses shall be either low scaled lighting or shielded to focus lighting and prevent lighting from spilling onto adjacent sensitive uses.The project shall not include outdoor lighting that causes residential property to be illuminated by more than two footcandles of lighting intensity or receive direct glare from the light source.All lights used to illuminate parking areas shall be designed, located, and arranged to reflect the light away from any street and any adjacent premises.Signage with a light intensity of greater than three footcandles above ambient lighting, as measured at the property line of the nearest residentially zoned property, shall be prohibited.	Include specifications on final design plans.	Prior to finalization and approval of final design plans.	Foundation	County Museum of Natural History
Air Quality					
AQ/mm-3.1	<p>To reduce the potential for health risks as a result of construction of the project, the following measures shall be implemented:</p> <ul style="list-style-type: none">Prior to the start of construction activities, it shall be ensured that all 75 horsepower or greater diesel-powered equipment are powered with CARB-certified Tier 4 Interim engines, except where the County establishes that Tier 4 Interim equipment is not available. <p>There are several other SCAQMD rules and regulations that serve as mitigation measures for the project construction. These rules are:</p> <ul style="list-style-type: none">SCAQMD Rule 403, which requires projects to incorporate fugitive dust control measures;SCAQMD Rule 1113, which limits the volatile organic compound content of architectural coating; andSCAQMD Regulation XIII, New Source Review, which requires new on-site facility nitrogen oxide emissions to be minimized through the use of emission control measures (e.g., use of best available technology control technology for new combustion sources such as boilers and water heaters).	Include measures on grading and building plans and implement during equipment use on the project site.	Prior to issuance of construction, grading, and/or building permits and during construction.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
Biological Resources					
BIO/mm-1.1	<p>To protect the federal candidate monarch butterfly, which is a candidate species for listing under the federal Endangered Species Act, the following measures (BIO/mm-1.1a or BIO/mm-1.1b) shall be implemented:</p> <p>a. Full avoidance of impacting any milkweed populations on-site with observable monarch eggs and larvae. After obtaining permits and prior to construction, all individual milkweed plants will be surveyed. All individual plants found with eggs or larvae will be flagged for re-survey and avoidance. Individual plants without eggs and larvae will be removed. Flagged plants will be re-surveyed and removed when no eggs or larvae are present. All tropical milkweed will be replaced with native narrowleaf milkweed (<i>Asclepias fascicularis</i>) following construction.</p> <p>OR</p> <p>b. If monarch eggs and larvae are not present, any tropical milkweed populations in the project area should be replanted with native narrowleaf milkweed and other nectar-providing plants following construction activities. All tropical milkweed on the property will be assessed for the absence of monarch eggs and larvae and replaced with narrowleaf milkweed after construction.</p>	Conduct survey of all individual milkweed plants on the project site to determine presence or absence of monarch eggs and/or larvae and implement measures based on survey findings.	After obtaining permits and prior to construction.	Foundation	County Museum of Natural History
BIO/mm-2.1	<p>Impacts to Oil Creek may be avoidable but are subject to final project design. To protect sensitive and regulated aquatic resources associated with Oil Creek, one of the following measures (BIO/mm-2.1a or BIO/mm-2.1b) shall be implemented:</p> <p>a. Full avoidance of Oil Creek, including riparian habitats. To attain full avoidance of Oil Creek, construction and ground disturbance shall not occur within 125 feet of the centerline of Oil Creek. The limits of riparian habitat shall be flagged and construction fencing erected to clearly denote the limits of construction. No overnight staging of equipment or materials shall occur within the protected “no work” zone as delineated by the fencing. Storing, fueling, and equipment maintenance shall not occur in locations where spilled materials could potentially enter Oil Creek and its associated riparian habitat. Spill kits/absorbent clean-up materials shall be available on-site. All equipment and vehicles shall be checked and maintained daily to prevent spills of fuel, oil, and other hazardous materials. A designated staging area shall be established for vehicle/equipment parking and storage of fuel, lubricants, and solvents a minimum of 100 feet outside of the protected zone. All fueling and maintenance activities shall take place in the designated staging area.</p> <p>OR</p>	Retain a Project Biologist to review final project design to determine if full avoidance of Oil Creek can be achieved and to ensure compliance with biological resource mitigation measures in accordance with the determination.	Prior to construction	Foundation	County Museum of Natural History

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- b. If full avoidance of Oil Creek and a designated “no work” buffer is not possible after determination of final design, the following measures shall be required:
- i. A formal aquatic resources delineation shall be implemented to determine the jurisdictional boundaries of the Oil Creek feature. The delineation shall determine the limits of potentially regulated aquatic resources, the riparian features, and an appropriate buffer for protection (the “protected zone”). The aquatic resources delineation shall identify all appropriate jurisdictional agencies and be used in securing all applicable permits prior to construction and after a project final design has been determined. At the discretion of the regulatory agencies, the requirements of the permits may supplement or exceed the requirements of this measure. If permits are required, all environmental requirements of the regulatory permits shall be implemented, and the executed permits shall be kept on-site.
 - ii. Within the riparian habitat and buffer, vegetation removal shall be kept to the minimum necessary to removed diseased and/or non-native vegetation and to implement the features of the Master Plan. Initial removal of vegetation within the riparian habitat shall be monitored full-time by a qualified biologist, and weekly spot-check monitoring shall continue throughout the construction of the project. Work within riparian habitat shall not be conducted during or immediately after a rain event.
 - iii. A restoration plan, prepared by a qualified restoration ecologist, shall be prepared and implemented. The restoration plan will include detailed success criteria, typically associated with 80% relative cover to pre-project baseline conditions with less than 10% invasive cover, to provide replacement habitat at an equal or better value than the existing Oil Creek riparian corridor, within 5 years of planting. The final plan shall be approved by the County of Los Angeles Museum of Natural History, the County Department of Regional Planning, and the permitting agencies (if any). At a minimum, restoration requirements included in the plan and implemented shall include the following:
 - Native tree replacement requirements consistent with the requirements of the Plant Pest and Disease Management Plan (BIO/mm-6.2).
 - A detailed planting scheme identifying the location and sizes of all container stock.
 - Details on planned irrigation which shall provide for successful plant establishment; survival should occur without supplemental irrigation for at least 2 years.
 - Annual monitoring, maintenance, and adaptive management measures and annual reporting requirements.
 - iv. The riparian habitat and buffer specified in the aquatic resources delineation shall be flagged and construction fencing erected to clearly denote the limits of the protected zone. No overnight staging of equipment or materials shall occur within the protected zone. Storing, fueling, and equipment maintenance shall not occur in locations where spilled materials could potentially enter Oil Creek and its associated riparian habitat. Spill kits/absorbent clean-up materials shall be available on-site. All equipment and vehicles shall be checked and maintained daily to prevent spills of fuel, oil, and other hazardous materials. A designated staging area shall be established for vehicle/equipment parking and storage of fuel, lubricants, and solvents a minimum of
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Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	100 feet outside of the protected zone. All fueling and maintenance activities shall take place in the designated staging area. v. Mitigation requirements and permit conditions shall be conveyed to construction crews prior to construction.				
BIO/mm-3.1	<p>This mitigation measure only applies to project features implemented in and around the Lake Pit, including the pedestrian path and bridge. The following measures shall be implemented prior to the implementation of these features:</p> <p>a. A formal aquatic resources delineation shall be implemented to determine the jurisdictional boundaries of the Lake Pit features. The delineation shall determine the limits of potentially regulated aquatic resources, the riparian features, and an appropriate buffer for protection (the “protected zone”). The aquatic resources delineation shall identify all appropriate jurisdictional agencies and be used in securing all applicable permits prior to construction and after a project final design has been determined. At the discretion of the regulatory agencies, the requirements of the permits may supplement or exceed the requirements of this measure. If permits are required, all environmental requirements of the regulatory permits shall be implemented, and the executed permits shall be kept on-site.</p> <p>b. Within the riparian habitat and buffer, vegetation removal shall be kept to the minimum necessary to remove diseased and/or non-native vegetation and to implement the features of the Master Plan. Initial removal of vegetation within the riparian habitat shall be monitored full-time by a qualified biologist, and weekly spot-check monitoring shall continue throughout the construction of the project. Work within riparian habitat shall not be conducted during or immediately after a rain event.</p> <p>c. A restoration plan, prepared by a qualified restoration ecologist, shall be prepared and implemented. The restoration plan will include detailed success criteria, typically associated with 80% relative cover to pre-project baseline conditions with less than 10% invasive cover, to provide replacement habitat at an equal or better value than the existing riparian vegetation within and along the margins of the Lake Pit, within 5 years of planting. The final plan shall be approved by the County of Los Angeles Museum of Natural History, the County Department of Regional Planning, and the permitting agencies (if any). At a minimum, restoration requirements included in the plan and implemented shall include the following:</p> <ul style="list-style-type: none">• A detailed planting scheme identifying the location and sizes of all container stock.• Details on planned Irrigation which shall provide for successful plant establishment; survival should occur without supplemental irrigation for at least 2 years.• Five years of annual monitoring, maintenance, and adaptive management measures and annual reporting requirements.	Retain a Project Biologist to ensure compliance with biological resource mitigation measures for project features implemented in and around the Lake Pit.	Prior to construction	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<p>d. The riparian habitat and buffer specified in the aquatic resources delineation shall be flagged and construction fencing erected to clearly denote the limits of the protected zone. No overnight staging of equipment or materials shall occur within the protected zone. Storing, fueling, and equipment maintenance shall not occur in locations where spilled materials could potentially enter the Lake Pit and its associated riparian habitat. Spill kits/absorbent clean-up materials shall be available on-site. All equipment and vehicles shall be checked and maintained daily to prevent spills of fuel, oil, and other hazardous materials. A designated staging area shall be established for vehicle/equipment parking and storage of fuel, lubricants, and solvents a minimum of 100 feet outside of the protected zone. All fueling and maintenance activities shall take place in the designated staging area.</p> <p>e. Mitigation requirements and permit conditions shall be conveyed to construction crews prior to construction.</p>				
BIO/mm-5.1	<p>To avoid impacts to nesting birds, one of the following measures (BIO/mm-5.1a or BIO/mm-5.1b) shall be implemented:</p> <p>a. If possible, no vegetation trimming, pruning, removal, construction, or grading shall occur during the nesting and breeding season (January 1 through September 15).</p> <p>OR</p> <p>b. If activities associated with vegetation trimming, pruning, removal, construction, or grading are necessary during the bird nesting and breeding season (January 1 through September 15), the following measures shall be implemented:</p> <ul style="list-style-type: none">A qualified biologist shall conduct surveys for active nests weekly, beginning 14 days prior to initiation of any new construction activities, with the last survey conducted no more than 3 days prior to the start of clearance/construction work. If ground-disturbing activities are delayed, additional pre-construction surveys should be conducted so that no more than 3 days have elapsed between the survey and ground-disturbing activities.Active nests found within 100 feet of the construction zone shall be delineated with highly visible construction fencing or other exclusionary material that would inhibit entry by personnel or equipment into the buffer zone. The size of the buffer zone shall be at the discretion of the qualified biologist and shall be no less than 25 feet. Raptors may require a larger buffer zone, up to 300 feet. Installation of the exclusionary material shall be completed by construction personnel under the supervision of a qualified biologist prior to initiation of construction activities. The buffer zone shall remain intact and maintained while the nest is active (i.e., occupied or being constructed by at least one adult bird) and until young birds have fledged and no continued use of the nest is observed, as determined by a qualified biologist. The barrier shall be removed by construction personnel only at the direction of the biologist.	Conduct vegetation trimming, pruning, removal, construction, or grading between September 16 and December 31 only. If this is not possible, retain a Project Biologist to conduct preconstruction nesting bird and raptor surveys and implement measures based on survey findings.	Surveys to be conducted 14 days prior to initiation of any new construction activities	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
BIO/mm-5.2	New and replacement trees shall be 24-inch box specimen trees or larger to reduce temporary impacts to nesting birds.	Retain 24-inch box specimen trees or larger.	Prior to construction, during construction, and post-construction	Foundation	County Museum of Natural History
BIO/mm-5.3	To reduce the risk of birds striking or colliding with the building, new construction would include deterrent features on glass barriers, windows, and building elements likely to present imperceptible barriers for avian species. These features would include ceramic frit patterns and/or other features that meet the criteria from the American Bird Conservancy for bird friendly glazing.	Include bird deterrent features in project design.	During finalization and approval of final design plans and during construction.	Foundation	County Museum of Natural History
BIO/mm-6.1	<p>For oak trees within the project site that are to be retained in their current location, prior to construction, chain-link fencing shall be installed around the protected zone of the trees (5 feet beyond the dripline, the outermost extent of the tree's branches, or 15 feet from the trunk, whichever is greater). The fencing shall remain in place throughout the entire period of construction. Any excavation or grading allowed within the protected zone shall be limited to hand tools or small hand-powered equipment. This measure shall only apply to existing trees where the limits of construction work are within 20 feet of the protected zone.</p> <p>In addition, one of the following measures (BIO/mm-6.1a or BIO/mm-6.1b) shall be implemented:</p> <p>a. If possible, removal, relocation, trimming, or replacement of the oak trees at the La Brea site shall be avoided.</p> <p>b. If modification (removal, relocation, trimming, or replacement) of protected oaks is required, coordination with the County of Los Angeles Department of Regional Planning shall occur prior to commencement of any work on-site. Any encroachment or removal requests must be reviewed by the County of Los Angeles Department of Regional Planning for consistency with County policies and ordinances relating to oak tree protection prior to commencement of any work on-site. Although an oak tree permit is not required, measures to mitigate for impacts to oak trees shall include the following:</p> <ul style="list-style-type: none">Removed oak trees shall be mitigated by planting coast live oaks at a 2:1 ratio on the project site. Each replacement tree shall be at least a 15-gallon specimen.The replacement oaks shall be monitored for a period of 5 years, with any failures resulting in a new oak being planted and initiation of a new 5-year monitoring period for the replanted tree.	Retain a Project Biologist to ensure compliance with oak tree mitigation measures	Prior to construction. Replacement oaks shall be monitored for a period of 5 years.	Foundation	County Museum of Natural History County of Los Angeles Department of Regional Planning
BIO/mm-6.2	A Plant Pest and Disease Management Plan shall be prepared prior to initiation of landscape planting and developed in consultation with an International Society of Arboriculture Certified Arborist. The Plant Pest and Disease Management Plan shall define methods to ensure new plant materials (container stock) are free of insect pests and diseases prior to delivery to the project site. Implementation of the Plant Pest and Disease Management Plan shall occur through the life of the project; modification and adaptation may occur to ensure applicability and viability of the plan.	Consult with an International Society of Arboriculture Certified Arborist to develop and implement Plant Pest and Disease Management Plan. Implement the Plant Pest and Disease Management Plan throughout the lifetime of the project.	Prior to the initiation of landscape planting.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
Cultural Resources, Archaeological Resources					
CR-ARCH/mm-1.1	<p>Retain a Qualified Archaeologist.</p> <p>a. Prior to initiating any ground-disturbing activities, a Qualified Archaeologist shall be retained. A Qualified Archaeologist is defined as one who meets the Secretary of the Interior's (SOI) Standards for professional archeology and those defined for a Principal Investigator by the Society for California Archaeology (SCA). The qualifications shall be presented as part of a resume for at least one primary point of contact who will act in capacity as the Qualified Archaeologist but also other key staff who may serve in this role. The resume shall demonstrate their SOI and SCA qualifications and shall be subject to approval by the County.</p> <p>b. Ground-disturbing activities shall include excavating, digging, trenching, plowing, drilling, tunneling, quarrying, grading, leveling, removing peat, clearing, driving posts, augering, backfilling, blasting, stripping topsoil or a similar activity at the project site. The Qualified Archaeologist shall carry out and ensure proper implementation of the mitigation measures and regulatory compliance related to archaeological resources and, where appropriate, tribal cultural resources during the project. The Qualified Archaeologist shall be responsible for establishing a meeting schedule with Page Museum curators and collections managers during implementation of the project to address any outstanding questions or concerns that arise during mitigation efforts to ensure effective communication and coordination.</p> <p>c. No more than 21 days before ground-disturbing activities for the project commence, the Qualified Archaeologist shall submit a letter confirming that they have been retained consistent with the terms of the CR-ARCH/mm-1.1 and attach the professional resumes for all staff who may be acting in the capacity of the Qualified Archaeologist.</p>	Retain a Qualified Archaeologist to ensure proper implementation of the mitigation measures and regulatory compliance.	Prior to initiating any ground-disturbing activities.	Foundation	County Museum of Natural History
CR-ARCH/mm-1.2	<p>Prepare an Archaeological and Tribal Cultural Resources Management Plan (AR-TCR Management Plan).</p> <p>a. Prior to commencing ground-disturbing activities, an AR-TCR Management Plan shall be prepared by the Qualified Archaeologist and submitted to the Page Museum curators and the NHMLAC Curator of Anthropology, who shall review and approve the AR-TCR Management Plan on behalf of the County. The AR-TCR Management Plan shall be prepared in conformance with Public Resources Code Section 5024.1, Title 14 California Code of Regulations, Section 15064.5 of the CEQA Guidelines, and PRC Sections 21083.2 and 21084.1.</p> <p>b. The AR-TCR Management Plan shall include but not be limited to the following elements:</p> <p>i. Historical context statement, research design, the specific types of archaeological sites likely to be encountered.</p> <p>ii. Construction worker training program (described in CR-ARCH/mm-1.3).</p>	Retain a County- approved qualified archaeologist to prepare an Archaeological and Tribal Cultural Resources Management Plan.	Prior to initiating any ground-disturbing activities.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<p>iii. Monitoring protocol for ground-disturbing activities that includes a framework for assessing the geoarchaeological setting to determine whether sediments capable of preserving archaeological remains are present in substantial conformance with the Archaeological and Tribal Cultural Resources Assessment and include a protocol for identifying the conditions under which additional or reduced levels of monitoring (e.g., spot-checking) may be appropriate. The duration and timing of the monitoring shall be determined based on the rate of excavation, geoarchaeological assessment, and, if present, the quantity, type, and spatial distribution of archaeological resources identified.</p> <p>iv. Limited program of archaeological presence/absence testing within naturally deposited asphaltic or non-asphaltic alluvial sediments before they are mechanically excavated. In particular, the area of the new museum, promenade, and parking lot expansion shall be further investigated. These investigations shall be conducted via a combination of archaeological units, hand tools, and mechanical trenching. The methods used to conduct the limited archaeological testing shall be coordinated with contractors to ensure that sufficient time is afforded to evaluate the significance of any identified resources, and if they are found to be significant, time to develop and implement a treatment plan appropriate to the type of resource. The timing of any such efforts shall be conducted in localized areas so that delays to project earthwork activities are minimized while allowing archaeological materials to be identified in a manner that retains the scientific integrity of the discovery.</p> <p>v. An approach to evaluate newly identified site components, if applicable, as contributors to the significance of LAN-159/H as a “historical resource” pursuant to CEQA Guidelines Section 15064.5(a) or a “unique archaeological resource” pursuant to PRC 21083.2(g). If any archaeological resources are identified and are found not to be significant or do not retain integrity, then they shall be recorded to a level sufficient to document the contents and condition.</p> <p>vi. Potential treatment plans to be implemented in the event a newly discovered archaeological resource is determined by the Qualified Archaeologist to contribute to the significance of the site as a historical resource based on California Register of Historical Resources criteria or a unique archaeological resource in substantial conformance with the Archaeological and Tribal Cultural Resources Assessment. The AR-TCR Management Plan shall require that if the treatment plans outlined therein are found to be infeasible or other alternatives are proposed, the Qualified Archaeologist shall coordinate with the project proponent and the County to amend the AR-TCR Management Plan with a formal treatment plan that would reduce impacts to the resource(s). The treatment plans stated in the AR-TCR Management Plan or prepared after the discovery of a historical resource, shall be in accordance with CEQA Guidelines Section 15064.5(f) for historical resources and Public Resources Code Sections 21083.2(b) for unique archaeological resources. Preservation in place (i.e., avoidance) is the preferred manner of treatment and if it is determined avoidance is not feasible, treatment may include but not be limited to any of the following depending on the type of resource and the significance evaluation:</p>				

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
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	<ul style="list-style-type: none">Native American archaeological site components. Data recovery shall be conducted (i.e., excavation, laboratory processing and analysis) to remove the resource(s) and reduce potential impacts to less than significant where significance is determined under CRHR Criterion 4 or as a unique archaeological resources and integrity is retained. Additional treatment measures to mitigate potentially significant impacts to the component as a tribal cultural resource, which is to be carried out in consultation with the Tribal Consultants and after considering the status of the discovery as a tribal cultural resource.Historical archaeological site components. If a historical archaeological component of the site is present and found to retain integrity, data recovery shall be conducted (i.e., excavation, laboratory processing and analysis) to remove the resource(s) and reduce potential impacts to less than significant. <p>vii. Discovery and processing protocol for inadvertent discoveries of archaeological resources that are encountered when an Archaeological Monitor is not present.</p> <p>viii. A process by which recovered materials will be prepared for curation at the Page Museum or the Research and Collections Department at the Natural History Museum of Los Angeles County as directed by Page Museum curators and collections managers, and in consultation with Tribal Consultants. The curation shall ensure their long-term preservation and allow access to interested scholars and shall be done at the expense of the County and/or the Foundation. If the materials are Native American in origin or any item of cultural patrimony, the manner of their handling and long-term curation may require additional consultation with the appropriate Native American community that shall be determined as part of a tribal consultation process to be conducted by the County who shall be responsible for the disposition of these materials.</p> <p>ix. The AR-TCR Management Plan shall summarize the requirements for tribal coordination in the event of an inadvertent discovery of Native American archaeological resources, including the applicable regulatory compliance measures or conditions of approval for the inadvertent discovery of archaeological resources to be carried out in concert.</p>				
CR-ARCH/mm-1.3	<p>Conduct an archaeological awareness training.</p> <p>a. The Qualified Archaeologist or a designee working under their direction shall provide training to on-site project personnel who are responsible for overseeing ground-disturbing activities (i.e., a foreman or site supervisor) and machine operators. The initial training shall be conducted prior to the start of ground-disturbing activities in the project site. The training shall brief the crews on the regulatory compliance requirements and applicable mitigation measures that must be adhered to during ground-disturbing activities for the protection of archaeological resources. As an element of the worker training, the Qualified Archaeologist or their designee shall advise the construction crews on proper procedures to follow if an unanticipated archaeological resource is discovered during construction, including the authority of Archaeological Monitor(s) to temporarily halt or redirect work away from such a discovery. Workers shall be shown examples of the types of archaeological resources that would require notification of the archaeologist, if encountered. The workers shall be provided with contact information for the Qualified Archaeologist and their designee(s) as part of a brief handout summarizing the critical components of the training. Once</p>	Conduct an archaeological awareness training with a Qualified Archaeologist.	Prior to initiating any ground-disturbing activities and during project construction.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<p>the ground-disturbing activities have commenced, the need for additional or supplemental worker trainings shall be determined by the Qualified Archaeologist based upon consultation with project personnel.</p> <p>b. Within five days of completing each training, a list of those in attendance shall be provided by the Qualified Archaeologist to a point of contact designated by the Museum of Natural History.</p>				
CR-ARCH/mm-1.4	<p>Monitoring for Archaeological Resources.</p> <p>a. At least one Archaeological Monitor working under the direction of the Qualified Archaeologist shall be present during ground-disturbing activities to implement the AR-TCR Management Plan. The Archaeological Monitor shall have the authority to temporarily halt or redirect construction activities when an archaeological resource, suspected resource, or archaeologically sensitive sediments are encountered, as determined by the Qualified Archaeologist in consultation with the Page Museum curators. The presence/absence testing protocol shall be implemented within the asphaltic alluvial sediments that have elevated archaeological sensitivity as stipulated in the AR-TCR Management Plan and conducted in concert with Tribal Monitors and applicable tribal cultural measure measures. The Qualified Archaeologist and Archaeological Monitor shall document the results of the presence/absence testing and allow ground-disturbing activities to proceed in the sediments with archaeological sensitivity once the archaeological and tribal monitors have confirmed the absence of resources. The Archaeological Monitor shall continue to monitor the ground-disturbing activities with the depths assessed by the presence/absence testing. Once the Archaeological Monitor identifies sediments or depths of excavation that are not capable of containing or are unlikely to contain archaeological resources, a corresponding reduction of monitoring coverage would be appropriate, and may be recommended by the Qualified Archaeologist. The Archaeological Monitor shall complete a daily written log documenting construction activities and observations, which shall be included in the final report. The number of Archaeological Monitors shall be determined by the County, based on the scale of ground-disturbing activities and a reasonable degree of effort required to implement the mitigation measures.</p> <p>b. In the event that potentially significant archaeological resources are exposed during construction, work in the immediate vicinity of the find (within 8 meters [25 feet]) shall stop until the Qualified Archaeologist can evaluate the significance of the find, with input from the tribal monitor if the discovery is affiliated with Native Americans and is also being assessed as tribal cultural resources. Construction activities may continue in other areas in coordination with the Qualified Archaeologist and, if applicable, tribal monitors.</p>	Retain at least one Archaeological Monitor working under the direction of the Qualified Archaeologist to implement the AR-TCR Management Plan.	Prior to commencement and during ground-disturbing activities.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<p>c. At the conclusion of all ground-disturbing activities the Qualified Archaeologist shall prepare a technical report documenting the methods and results of all work completed under the AR-TCR Management Plan, including, if any, treatment of archaeological materials, results of artifact processing, analysis, and research, and evaluation of the resource(s) for the California Register of Historical Resources. The format and content of the report shall follow the California Office of Historic Preservation's Archaeological Resource Management Reports (ARMR): Recommended Contents and Format. Any archaeological resources identified shall be documented on appropriate California Department of Parks and Recreation 523-Series Forms. The report shall be prepared under the supervision of a Qualified Archaeologist and submitted to curators of the Page Museum for initial review (on behalf of the Museum of Natural History, as the County departmental unit), and final copies shall be submitted to the County. The report shall be completed with 12 months of completion of the monitoring, unless other arrangements are required, as documented in writing and approved by the County, given the nature of the discovery, in which case a revised date can be determined through consultation with the Museum of Natural History. The final draft of the report shall be submitted to the South Central Coastal Information Center and the Tribal Consultants.</p>				
Cultural Resources, Historical Resources					
CR-HIST/mm-1.1	<p>Impacts to the La Brea Tar Pits Historic District and Page Museum resulting from project implementation shall be reduced through the ongoing input to the Design Team from a qualified Historic Architect, as the project design progresses. The Historic Architect shall satisfy the Secretary of the Interior's Professional Qualifications Standards for Historic Architecture as defined by the National Park Service and in accordance with 36 CFR 61 and possess a minimum of ten (10) years of project-level experience in designing, developing, and reviewing architectural plans for conformance with the Secretary's Standards.</p> <p>The Historic Architect shall work with the Design Team to identify options for new construction, upgrades, stabilization, repairs, and rehabilitation activities that will facilitate compliance with the Secretary's Standards. This historic preservation input to the Design Team shall begin in the earliest phases of schematic design phase possible and extend throughout the development of 50% Construction Drawings.</p> <p>For new construction, the Historic Architect shall work with the Design Team to identify options and opportunities for: (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, (2) ensuring that new construction, in materials, finishes, design, scale, and appearance, is compatible but differentiated from historic contributors and character-defining features; and (3) ensuring that new construction is designed and sited in such a way that it reinforces and strengthens, as much as feasible, character-defining site plan features, landscaping, and circulation corridors.</p> <p>For modernization and upgrade projects, the Historic Architect shall work with the Design Team to identify project options that facilitate compliance with the Secretary's Standards.</p> <p>The Historic Architect shall review proposed materials, finishes, window treatments/configuration, and other details to ensure compliance with the Secretary's Standards. The Historic Architect shall provide specifications for architectural features or materials requiring restoration or removal, maintaining and protecting relevant features in place, or on-site storage. Specifications shall include detailed drawings or instructions where historic features may be impacted.</p>	Retain a qualified Historic Architect to work with the project Design Team.	During finalization and approval of final design plans and during construction.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<p>The Historic Architect shall document the input provided to the Design Team in Memoranda for the Record at the Schematic and 50% Construction Documents phases. A Draft Memorandum for the Record shall be provided to interested parties including the Los Angeles Conservancy and the Los Angeles County Historic Preservation Commission for review and comment.</p> <p>The Historic Architect shall participate in pre-construction and construction monitoring activities, as appropriate, to facilitate conformance with the Secretary's Standards and/or lessening of material impairment to historical resources.</p>				
CR-HIST/mm-1.2	<p>An Inventory and Treatment Plan shall be prepared by a qualified historic preservation professional and implemented for the La Brea Tar Pits Historic District. Once complete, the Draft Inventory and Treatment Plan shall be provided to interested parties such as the Los Angeles Conservancy and County of Los Angeles Historic Preservation Commission for review and comment. The Inventory and Treatment Plan shall be finalized prior to the commencement of construction activities.</p> <p>Specific requirements for the Inventory and Treatment Plan are provided below:</p> <ul style="list-style-type: none">A qualified historic preservation professional shall be retained to prepare the Inventory and Treatment Plan. The historic preservation professional shall satisfy the Secretary of the Interior's Professional Qualifications Standards for History and/or Architectural History as defined by the National Park Service and in accordance with 36 CFR 61 and possess a minimum of ten (10) years of project-level experience in CEQA review of historic resources and reviewing architectural plans for conformance with the Secretary's Standards. A landscape architect or landscape specialist with a minimum of five (5) demonstrated years of experience working with historic landscapes shall contribute to preparation of the Inventory and Treatment Plan to identify historic landscaping and trees that fall within the period of significance for the historic district (up to 1977).The Inventory and Treatment Plan shall adhere to best professional practices promulgated by the National Park Service and State Office of Historic Preservation.The Inventory and Treatment Plan shall supplement the historic resources survey completed and documented in the Historic Resources Technical Report for the La Brea Tar Pits Master Plan by documenting the character-defining features and existing conditions of those "contributing" (i.e., historically significant) components of the historical resource. The inventory shall include site plan features, commemorative plaques and statues, artwork and sculptures, and other extant contributors to the historic district.The study shall include recommendations for annual maintenance activities, treatment and repair priorities, and maximum retention of remaining district contributors. All recommendations shall be designed to maximize retention of remaining contributors to the historic district and minimize the loss of character-defining features. <p>The Final Inventory and Treatment Plan shall be used for the ongoing stewardship of the property following construction.</p>	Retain a qualified Historic Preservation Professional to prepare and implement an Inventory and Treatment Plan.	Prior to the commencement of construction activities.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
CR-HIST/mm-1.3	<p>A historic documentation package shall be prepared to document the contributing features of the La Brea Tar Pits Historic District and Page Museum prior to the authorization of demolition or construction activities. The documentation package shall emulate and include elements of the Historic American Building Survey (HABS) and/or the Historic American Landscape Survey (HALS). The HABS/HALS-like Documentation Package shall adhere to best professional practices promulgated by the National Park Service and shall be provided to interested parties such as the Los Angeles Conservancy and County of Los Angeles Historic Preservation Commission for review and comment. Documentation shall be in accordance with the applicable standards described in the Secretary of the Interior's Standards for Architectural and Engineering Documentation.</p> <p>Prior to the commencement of construction activities, a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards in History and/or Architectural History shall be retained to prepare HABS/HALS-like documentation for the La Brea Tar Pits Historic District and Page Museum.</p> <p>Required contents for the HABS/HALS-like package include the following:</p> <ul style="list-style-type: none"><u>Photographs</u>: Photographic documentation will focus on the Page Museum and, within the historic district, those contributing elements (built, landscape, hardscape, paleontological, and natural features) slated for demolition, alterations, or adjacent new construction. Photographs shall include detail shots of contributing features and components slated for demolition, with overview and context photographs for the adjacent setting. Photographs shall be taken using a professional-quality single lens reflex (SLR) digital camera with a minimum resolution of 10 megapixels. Digital photographs will be provided in electronic format.<u>Descriptive and Historic Narrative</u>: The historian or architectural historian will prepare descriptive and historic narrative of the historical resources/features slated for demolition. Physical descriptions will detail each contributing component, with accompanying photographs, and information on how the resource fits within the broader historic district during its period of significance. The historic narrative shall draw upon previously prepared studies, including the Historical Resources Technical Report prepared for the La Brea Tar Pits Master Plan, as well as the La Brea Tar Pits Inventory and Treatment Plan prepared under Mitigation Measure CR-HIST/mm-1.2. The narrative shall also include a methodology section specifying the name of researcher, date of research, and sources/archives visited, as well as a bibliography. Within the written history, statements shall be footnoted as to their sources, where appropriate. <p>Upon finalization of the HABS/HALS-like Documentation Package, a hard copy and digital copy shall be prepared and offered to the Seaver Center for Western History Research at the Natural History Museum of Los Angeles County, University of Southern California Special Collections, and the Los Angeles Public Library.</p>	Retain a Historian or Architectural Historian who meets the Secretary of the Interior's Professional Qualifications Standards in History and/or Architectural History to prepare HABS/HALS-like documentation.	Prior to the commencement of construction activities.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
CR-HIST/mm-1.4	<p>A Retrospective Exhibit and Interpretive Program shall be prepared and implemented. The Retrospective Exhibit and Interpretive Project shall be prepared by a qualified historic preservation professional who meets the Secretary of the Interior's Professional Qualifications Standards in History and/or Architectural History. The exhibit materials shall be drawn from previous studies including but not limited to the Inventory and Treatment Plan described in Mitigation Measure CR-HIST/mm-1.2 and the HABS/HALS-like documentation package described in Mitigation Measure CR- HIST/mm-1.3, as well as other supplemental research materials as needed.</p> <p>The retrospective exhibit and interpretive program shall focus on the history of the site, the people involved in the early ownership, development, and scientific discoveries and excavations, and the events leading to its donation to the County of Los Angeles, as well as on the site's development through the end of the period of significance for the La Brea Tar Pits Historic District, 1977.</p> <p>The retrospective exhibit and interpretive program may include but not be limited to exhibit materials and interpretive panels, both exterior (e.g., as a series of panels in the park), interior (e.g., as a permanent exhibit in the Page Museum or new museum building), and online (on the museum website). The exhibit and interpretive program shall be designed for maximum public accessibility.</p> <p>The plan for the interpretive and commemorative program shall be detailed in an Interpretive Program Plan Memorandum to be prepared with the guidance of a qualified historic preservation professional. The retrospective exhibit and interpretive program shall be completed within three (3) years of commencement of initial construction activities. The Draft Interpretive Program Plan Memorandum shall be reviewed by interested parties such as the Los Angeles Conservancy and County of Los Angeles Historic Preservation Commission for comment.</p>	Retain a qualified Historic Preservation Professional to prepare a Retrospective Exhibit and Interpretive Program.	To be completed within three (3) years of commencement of initial construction activities.	Foundation	County Museum of Natural History
CR-HIST/mm-1.5	<p>A pre-construction protection plan for historical resources shall be prepared prior to any major alteration or construction activities that may potentially damage historic resources or contributing features of the La Brea Tar Pits Historic District or Page Museum. A qualified Historic Architect shall be retained to develop a Preservation Protection Plan that identifies potential risks to historical resources within or adjacent to the immediate project footprint. The Historic Architect shall satisfy the Secretary of the Interior's Professional Qualifications Standards for Historic Architecture as defined by the National Park Service and in accordance with 36 CFR 61 and possess a minimum of ten (10) years of project-level experience in reviewing architectural plans for conformance with the Secretary's Standards.</p> <p>The Preservation Protection Plan may include, but not be limited to, the following components:</p> <ul style="list-style-type: none">• Inclusion/mapping of the historical resource/contributing feature on any architectural drawings, site plans, and/or construction documents.• Site walk with Design Team and construction team representative to review staging areas for construction and construction sequence and activities, to identify areas of concern and to provide input for proactive avoidance of unforeseen impacts.• Procedures and timing for the placement and removal of temporary protection features, such as fencing and other barriers, around the historical resource/contributing feature.• Monitoring of the installation and removal of temporary protection features by the Historic Architect, or designee.	Retain a qualified Historic Architect to develop a Preservation Protection Plan.	Prior to the commencement of construction activities.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<ul style="list-style-type: none">Post-construction survey to document the condition of the historic resource after project completion.Preparation of a technical memorandum documenting the pre-construction and post-construction conditions of the historic resource and compliance with protective measures outlined in the Preservation Protection Plan. <p>The Preservation Protection Plan shall be submitted in draft form to interested parties including the Los Angeles Conservancy and the Los Angeles County Historic Preservation Commission for review and comment.</p>				
Geology and Soils					
GEO/mm-3.1	<p>To prevent subsidence of the ground surface within the project site, temporary dewatering shall be required during construction for excavations which extend below the existing groundwater level (i.e., greater than 10 feet below ground surface), anticipated for deepest excavations associated with the proposed Page Museum one-story addition, as excavations will be required for construction of the proposed mat foundation and associated new utility placement. Dewatering activities shall be conducted as follows:</p> <ul style="list-style-type: none">a. Dewatering shall be performed prior to excavation. Temporary dewatering shall be performed during the construction stage, prior to beginning any excavation which will extend beneath the groundwater. The Construction Contractor shall decide the proper timeline which will permit a dry environment for the excavation work and prevent water seepage into the excavation.b. The design of a temporary dewatering system shall be performed by an experienced, qualified dewatering contractor. Prior to proceeding with the actual design of the dewatering system, a test installation shall be constructed to verify the design's effectiveness.c. The dewatering system shall be designed to lower the site groundwater sufficiently to permit a dry environment and to prevent water seepage from the temporary perimeter cut slopes. The design shall balance the soil conditions with well spacing and well depth. Recommendations for well design provided in the project's Geology and Soil Discipline Report shall be incorporated into the final design of the dewatering system, including:<ul style="list-style-type: none">Installation of relatively closely spaced wells around the excavation perimeter, referred to as well pointsWells shall include perforated casing with annular space filled with suitable filter materialWell points shall extend past the depth of proposed excavationElements of current dewatering system within the Lake Pit shall be incorporated, including collection piping, sump pumps, a sand-oil separator device, and a micro-filter device. In addition, separator and filter devices shall be considered for temporary dewatering pumps to help maintain the system's efficiency and increase the amount of time prior to the pumps being plugged up with tar.	Conduct dewatering activities in accordance with identified measures.	Prior to beginning any excavation which will extend beneath the groundwater.	Foundation and Project Contractor	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	d. Groundwater shall be pumped from the tar sands and is anticipated to contain a relatively high percentage of tar. The tar shall be removed, and the groundwater treated in accordance with all applicable regulatory requirements prior to disposal.				
GEO/mm-3.2	To ensure proper design and stability of structures to be constructed on existing artificial fill or upper alluvial soils, the excavation and replacement of existing compressible materials within the areas of the proposed improvements shall be required. Excavation and replacement shall consist of complete removal of artificial fill and/or compressible surficial alluvial soil beneath the areas of the proposed improvements and replacement with compacted structural fill, with an anticipated artificial fill depth ranging between 1 and 8 feet below ground surface based on review of existing explorations performed within or adjacent to the project site. This value will be confirmed after completion of subsurface explorations during the final geotechnical design to further characterize the subsurface conditions underlying the improvement areas (i.e., compressibility of the soft layers and the depth to firm material). Due to the anticipated soil contamination, on-site soils are not anticipated to be suitable for reuse as fill material and shall be exported for proper remediation and disposal in accordance with all applicable regulatory requirements. The final engineering design of the structures included in the project shall be reviewed and approved by the Los Angeles County Department of Public Works, Building and Safety Division.	Conduct subsurface explorations during the final geotechnical design to further characterize the subsurface conditions underlying the areas of disturbance.	During final geotechnical design and prior to commencement of construction.	Foundation	County Museum of Natural History Los Angeles County Department of Public Works, Building and Safety Division
GEO/mm-4.1	<p>To address impacts related to expansive soils within the project site, additional expansion testing shall be required as part of the final geotechnical design for the project. Based on the outcome of the additional expansion testing, one or more of the following options shall be implemented to address expansive soils:</p> <p>a. <u>Over-excavation</u>: Over-excavation and replacement of the expansive material with a soil having low or non-expansive potential, with the upper 2 feet of expansive soil (where encountered at the site) being removed and replaced with non-expansive fill.</p> <p>OR</p> <p>b. <u>Soil Treatment</u>: Chemical treatment, such as lime treatment. This generally involves mixing a certain percentage of the chemical into the subgrade soil, compacting the mixed soil-chemical material, and then allowing the material curing time prior to continuing construction. The percentage of the chemical addition and the associated engineering properties of the improved soil will need to be determined through geotechnical laboratory testing. If chosen, the final geotechnical design shall provide design and construction recommendations related for this option.</p> <p>OR</p> <p>c. <u>Structural Design</u>: The structural design option would involve increasing the bearing pressure on the soil and/or extending the foundation or flatwork depth. However, while increasing the bearing pressure reduces the potential impact from expansive soil, it does increase the potential impact associated with excessive settlement. If this option is elected, settlement evaluation shall be performed as part of the final geotechnical design and based on the proposed loading conditions. Loading conditions shall be limited to a maximum differential of 1 inch over a 20-foot span within the structure.</p>	Conduct additional soil expansion testing during the final geotechnical design to determine final design solution.	During final geotechnical design design and prior to commencement of construction.	Foundation	County Museum of Natural History Los Angeles County Department of Public Works, Building and Safety Division

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	The final design solution will be determined by the project engineer consistent with the above measures. The final engineering design of the structures included in the project shall be reviewed and approved by the Los Angeles County Department of Public Works, Building and Safety Division.				
GEO/mm-6.1	<u>Retain a Qualified Professional Paleontologist (Project Paleontologist):</u> Prior to the start of construction and/or ground-disturbing activities, the Los Angeles County Museum of Natural History Foundation, at the direction of the County, shall retain a Qualified Professional Paleontologist (Project Paleontologist) who meets or exceeds the professional standards defined by the SVP (2010), and who has specific experience overseeing mitigation projects in Pleistocene deposits of the Los Angeles Basin. The SVP (2010:10) defines a qualified professional paleontologist as: “a practicing scientist who is recognized in the paleontological community as a professional and can demonstrate familiarity and proficiency with paleontology in a stratigraphic context.” The Project Paleontologist shall have a graduate degree in paleontology or geology, and/or a publication record in peer reviewed journals; have demonstrated competence in field techniques, preparation, identification, curation, and reporting; have at least 2 full years of professional experience as assistant to a qualified professional paleontologist with administration and project management experience (supported by a list of projects and referral contacts); have proficiency in recognizing fossils in the field and in determining their significance; have expertise in local geology, stratigraphy, and biostratigraphy; and have experience collecting vertebrate fossils in the field (SVP 2010). The Project Paleontologist and Page Museum curators and collections managers shall meet weekly during scheduled ground-disturbing activities associated with the construction of the project to address any outstanding questions or concerns that arise during mitigation efforts to ensure effective communication and coordination. The Project Paleontologist shall oversee all regulatory compliance measures, shall oversee mitigation protocols related to paleontological resources, and shall be a point of contact for the Page Museum curators and County officials. A professional resume or curriculum vitae of the Project Paleontologist shall be submitted to the County for approval prior to the start of ground-disturbing activities.	Retain a Qualified Professional Paleontologist (Project Paleontologist) to oversee all regulatory compliance measures and mitigation protocols.	Prior to the start of construction and/or ground-disturbing activities.	Foundation	County Museum of Natural History
GEO/mm-6.2	<u>Prepare a Paleontological Resources Management Plan:</u> After finalization of the engineering, design, and grading plans for the project and prior to the start of preconstruction ground-disturbing activities, a Paleontological Resources Management Plan (PRMP) shall be prepared by the Project Paleontologist and submitted to the Page Museum curators, who shall review and approve the final PRMP on behalf of the County. The PRMP shall define the processes and procedures for paleontological monitoring and fossil excavation based on the nature of ground-disturbing activities required for the project. The PRMP shall: a. Incorporate the results of the Paleontological Resources Technical Report (SWCA 2023), the final geotechnical investigation, and the final engineering/grading plans for the project. b. Require all construction personnel to attend a Worker Environmental Awareness Program (WEAP) training to be presented by the Project Paleontologist, or their designee. c. Define the processes and procedures for coordinating and communicating with responsible parties and stakeholders (including but not limited to the contractors, consultants, County officials, and the Page Museum curators and collections managers), when construction activities would be halted due to discovery and subsequent salvage efforts during ground-disturbing activities, and when regularly scheduled meetings between the Project Paleontologist and the Page Museum curators and collections managers would be required.	Prepare and implement a Paleontological Resources Management Plan.	Prior to the start of construction and/or ground-disturbing activities.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
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	<p>d. Outline a procedure whereby mechanical excavation is conducted to remove any non-fossil-bearing sediments or soils subject to environmental soil remediation, such that adequate time is afforded to identify fossil localities and to conduct scientific salvage operations to a feasible extent (see Millington and Dietler 2023); the timing of scientific fossil salvage operations during initial grading should be given special considerations in the PRMP such that delays to earthwork activities are minimized while allowing paleontological material to be salvaged at an acceptable level that retains the scientific integrity of the discoveries.</p> <p>e. Require full-time paleontological monitoring by qualified paleontological monitors who meet the standards of the SVP (2010) and shall be supervised by the Project Paleontologist; qualified paleontological monitors shall have the authority to temporarily halt construction activities to record and salvage fossil discoveries as they are unearthed to allow for potentially significant fossils to be collected with their scientific integrity intact to the extent feasible and practical.</p> <p>f. Discuss unanticipated fossil discovery and communication protocols if paleontological resources are discovered by non-paleontology staff working on the project in instances where paleontological monitors are documenting or recording paleontological resources discovered elsewhere within the project site.</p> <p>g. Discuss feasible monitoring procedures for each of the different ground-disturbing activities, including but not limited to active observation or inspection of sediments during active ground disturbances, whether they be trenching, grading, excavating, drilling, or some other activity that disturbs sediments; inspection of sedimentary spoils spiles or cuttings, as well as backfill originating from Hancock Park that may contain asphaltum or fossil material; and/or matrix screening of spoils for small or microfossils as needed.</p> <p>h. Define fossil salvaging procedures, including but not limited to outlining the treebox method for asphaltum bearing large accumulations of fossils, salvaging of isolated fossils, matrix screening in the field for microfossils, and chain-of-custody procedures for transferring the fossil discoveries to the Page Museum curators or collection managers as they are exhumed from the project site. Because of the unique conditions of the La Brea Tar Pits and the chemical considerations of working with asphaltum fossil deposits, any paleontological resource discoveries shall remain on-site with the Page Museum. The paleontological monitor shall record pertinent geologic data and collect appropriate sediment samples from any fossil localities.</p> <p>i. Require the Project Paleontologist to prepare a report of the findings of the monitoring efforts within 90 days after construction is completed.</p>				
GEO/mm-6.3	<p><u>Conduct Worker Training:</u> The Project Paleontologist shall develop and present a WEAP training to educate the construction crew on the legal requirements for preserving fossil resources, as well as the procedures to follow in the event of an unanticipated fossil discovery. This training program shall be given to the crew before ground-disturbing work commences and shall include handouts to be given to new workers as needed.</p>	<p>Conduct worker's training through development and presentation of a Worker's Environmental Awareness Program.</p>	<p>Prior to the start of construction and/or ground-disturbing activities, to be updated as needed throughout construction.</p>	<p>Foundation</p>	<p>County Museum of Natural History</p>

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
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GEO/mm-6.4	<p><u>Monitor for Paleontological Resources</u>: Full-time monitoring shall be required during all ground-disturbing activities (including artificial fill or previously disturbed sediments), regardless of depth. Additionally, special considerations shall be given to the project design elements and geotechnical and soils remediation or hazard reduction recommendations, including but not limited to the paleontological screening of tar sands prior to disposal or treatment. Procedures and protocols for paleontological monitoring and fossil salvage shall be outlined in the PRMP. Monitoring shall:</p> <p>a. Be conducted by a qualified paleontological monitor who meets the standards of the SVP (2010) and shall be supervised by the Project Paleontologist, who shall coordinate with the Page Museum curators and collections managers and County officials. The Project Paleontologist may periodically inspect construction activities to recommend adjusting the level of monitoring in response to subsurface conditions; however, modifications, such as increasing, reducing, or ceasing of paleontological monitoring, or any changes of the implementation of the PRMP, should be approved by Page Museum curators and the County.</p> <p>b. Include inspection of exposed sedimentary units during active excavations, grading, tar sand removal, and any other ground-disturbing activity that has the potential to impact sediments capable of preserving significant fossils. The Page Museum curators (or their representatives) and the paleontological monitor shall have authority to temporarily divert activity away from exposed fossils to evaluate the significance of the find and, shall the fossils be determined significant or likely significant, professionally and efficiently recover the fossil specimens and collect associated data while minimizing delays. Data collection procedures may require the support of construction contractors to carefully and efficiently collect field data and extract the fossils to allow construction to continue.</p> <p>c. Require grading and earthwork contractors to follow the guidance of Page Museum staff or the Project Paleontologist regarding the collection and/or extraction of paleontological resources. The paleontological monitor shall record pertinent geologic data and collect appropriate sediment samples from any fossil localities. Recovered fossils shall be directly retained by the Page Museum for later analysis, laboratory preparation, and eventual curation if deemed significant or important by the Page Museum curators or collection managers.</p>	Retain a full-time qualified Paleontological Monitor.	Prior to and during construction activities	Foundation	County Museum of Natural History
GEO/mm-6.5	<p><u>Prepare a Paleontological Resources Monitoring Report</u>: Upon conclusion of ground-disturbing activities, the Project Paleontologist overseeing the implementation of the PRMP, including paleontological monitoring and fossil salvaging, shall prepare a final monitoring report that documents the paleontological monitoring efforts for the project and describes any paleontological resources discoveries observed and/or recorded during the life of the project. The final monitoring report and any associated data pertinent to the salvaged fossil specimen(s) shall be submitted to the Page Museum and the Research and Collections Department at the Natural History Museum of Los Angeles County within 90 days after construction is completed. If the project is developed in phases, the final report is only necessary at the completion of the last phase to be constructed. At the discretion of the County, if there are unanticipated gaps in the phases of construction or other reasons why the County would prefer phased final reports, multiple final reports could be prepared.</p>	Prepare a Paleontological Resources Monitoring Report.	Upon conclusion of ground-disturbing activities.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
Greenhouse Gas Emissions					
GHG/mm-1.1	The modifications to the George C. Page Museum and the development of the new museum shall not include the installation of natural gas infrastructure. Future operation of the new facilities shall not use natural gas–fired appliances. In addition, the project shall provide more electric vehicle charging stations than the mandatory requirements in the Los Angeles County Code, Title 31, Green Building Standards, electric vehicle charging space and charging station calculations (Code Section 5.106.5.3.3).	Prohibit installation of natural gas infrastructure and provide vehicle charging stations as identified.	Prior to finalization and approval of final design plans	Foundation	County Museum of Natural History
Hazards and Hazardous Materials					
HAZ/mm-1.1	<p>Prior to earthwork activities, the project contractor, in coordination with the LAFD and the County, through the Foundation, shall be required to prepare a Soil Management Plan (SMP) for the removal of contaminated soils and their transportation off-site. The SMP shall be prepared in accordance with all relevant and applicable federal, state, and local laws and regulations that pertain to the transportation and disposal of hazardous materials and waste. The SMP shall:</p> <ul style="list-style-type: none">Describe the methodology to identify and manage (reuse or off-site disposal) contaminated soil during soil excavation and/or construction;Provide protocols for confirmation sampling, segregation and stockpiling, profiling, backfilling, disposal, guidelines for imported soil, and backfill approval from the DTSC Information Advisory on Clean Imported Fill Material; andIn addition, the LAFD may consult with other agencies (e.g., DTSC and the LARWQCB) if the nature of the contamination warrants the involvement of these agencies.	Prepare and implement a Soil Management Plan.	Prior to earthwork activities.	Foundation and Project Contractor	County Museum of Natural History City of Los Angeles Fire Department
HAZ/mm-1.2	<p>The following requirements and precautionary actions shall be implemented when disturbing soil at the project site:</p> <ul style="list-style-type: none">No soil disturbance or excavation activities shall occur without a project site-specific Health and Safety Plan (HASP). Any soil that is disturbed, excavated, or trenched due to on-site construction activities shall be handled in accordance with applicable local, state, and federal regulations, as well as sampled and analyzed by a certified laboratory for constituents in accordance with the accepting landfill's requirements (including testing for the presence of hydrocarbons, volatile organic compounds, semi-volatile organic compounds, heavy metals, and pesticides).	Prepare and implement a project site-specific Health and Safety Plan.	Prior to earthwork activities.	Foundation and Project Contractor	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<ul style="list-style-type: none">The contractor shall prepare a project-specific HASP. It is the responsibility of the contractor to review available information regarding project site conditions, including the SMP, and potential health and safety concerns in the planned area of work. The HASP shall describe the proposed construction activities and hazards associated with each activity. Hazard mitigation shall be presented in the HASP to limit construction-related risks to workers. The HASP shall include emergency contact numbers, maps to the nearest hospital, gas monitoring action levels, gas response actions, allowable worker exposure times, and mandatory personal protective equipment (PPE) requirements. The HASP shall specify Certificate of Competency action levels for construction workers as well as monitoring criteria for increasing the level of PPE. The HASP shall be signed by all workers on-site to demonstrate their understanding of the construction-related risks.The contractor and each subcontractor shall require their employees who may directly come in contact with Suspect Soil (soil that is stained or odorous) to perform all activities in accordance with the contractor's HASP. If Suspect Soil is encountered, to minimize the exposure of other workers to potential contaminants on the project site, the contractor may erect temporary fencing around excavation areas with appropriate signage as necessary to restrict access and to warn unauthorized on-site personnel not to enter the fenced area.There shall be no reuse of excavated soil deemed inappropriate for reuse as defined in the project-specific SMP.The contractor shall conduct, or have its designated subcontractor conduct, visual screening of soil during activities that include soil disturbance. If the contractor or subcontractor(s) encounter any Suspect Soil, the contractor and subcontractor(s) shall immediately stop work and take measures to not further disturb the soils (e.g., cover suspect soil with plastic sheeting) and inform the Foundation and the environmental monitor. The Foundation shall identify the environmental monitor—an experienced professional trained in the practice of the evaluation and screening of soil for potential impact working under the direction of a licensed Geologist or Engineer—prior to the beginning of work.Prior to excavation activities, the contractor or designated subcontractor shall establish specific areas for stockpiling Suspect Soil, should it be encountered, to control contact by workers and dispersal into the environment, per the provisions provided in the SMP.				
HAZ/mm-2.1	<p>During construction activities at the project site, controls shall be in place to address the effects of subsurface gases and impacted soil and groundwater on workers and the public. During construction, the following shall be implemented:</p> <ul style="list-style-type: none">Monitoring devices for methane and benzene shall be present to alert workers of elevated gas concentrations when subsurface soil-disturbing work is being performed.	Implement monitoring devices as identified for methane and benzene.	During construction	Foundation and Project Contractor	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<ul style="list-style-type: none">Any trench or excavation wider than 18 inches and having a depth greater than 2× its narrowest width shall be monitored with a portable combustible gas detector. The portable detector shall have a resolution capable of reporting to 1% LEL (Lower Explosive Limit), or 0.1% by volume in air, or in parts per million (ppm). If concentrations of combustible gases reach or exceed 20% LEL, or 1.0% by volume in air, or 10,000 ppm, the trench or excavation shall be evacuated until such time as the gas concentrations are determined to be steadily below these levels. All welding and electrical equipment shall be removed from the trench/excavation until the area is deemed to be safe. Portable blowers are the most appropriate means of controlling combustible gas concentrations. The blower motors and appurtenant electrical wiring shall not be placed in the trench or excavation.No welding, cutting, or other hot work shall be performed close to flammable tars which, when subjected to heat, might produce flammable or toxic vapors (per OSHA 1910.252(a)(3)(i)). Smoking should also be avoided when working near tar seeps.Contingency procedures shall be in place if elevated gas concentrations are detected, such as the mandatory use of PPE, evacuating the area, and/or increasing ventilation within the immediate work area where the elevated concentrations are detected.Workers shall be trained to identify exposure symptoms and implement alarm response actions.Soil and groundwater exposure during excavations shall be minimized to reduce the surface area which could off-gas. This shall be achieved by staggering exposed excavation areas.Soil removed as part of construction shall be sampled and tested for off-site disposal in a timely manner. If soil is stockpiled prior to disposal, it shall be managed in accordance with the project's Stormwater Pollution Prevention Plan.Fencing shall be erected to limit public access and allow for gas dilution. The construction contractor can determine the appropriate type of fencing, as long as public access is restricted such that interaction with hazardous construction conditions does not occur.All requirements of the project-specific HASP shall be implemented and followed as described in HAZ/mm-1.2.				
HAZ/mm-2.2	<p>As part of the final project design, the project engineer shall develop and implement a methane mitigation system. The mitigation system, which would provide a barrier for hazardous vapors, methane, and tar, consists of a subslab venting system that exhausts to the atmosphere, a subslab impermeable gas/tar barrier membrane system, and a monitoring system consisting of probes above and below the gas barrier membrane. The monitoring program consists of routine (quarterly) monitoring and reporting to the County Public Works, Environmental Programs Division. The Environmental Programs Division shall also review the plans to see if the criteria meet the requirements of Los Angeles County Code 110.4 Methane Gas Hazards. Additionally, tar collection systems underneath the gas mitigation systems need to be evaluated by the engineer and by the county engineer to evaluate the performance of the overall system.</p> <p>A contingency plan should also be prepared to describe how matters shall be handled in the event that high concentrations of methane gas enter a building despite the mitigation measures.</p>	<p>Develop and implement a methane mitigation system.</p> <p>Implement quarterly monitoring throughout life of project.</p>	<p>Prior to finalization and approval of final design plans.</p>	<p>Foundation</p>	<p>County Museum of Natural History</p> <p>County Public Works</p> <p>Environmental Programs Division</p>

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	The inspection and periodic observations of membrane and vapor control measures shall be performed by the Vapor Barrier Engineer (i.e., the Engineer or his Designee). At a minimum, inspection/observation shall take place during the installation of the vent piping, after backfilling of the vent piping, during the installation of the vapor barrier, after the installation of the vapor barrier (prior to backfilling), during the placement of the protection course, immediately prior to placement of foundation concrete, during and at the completion of the vent riser installation for the vent piping, and at the completion of construction prior to the issuance of the system certification and certification of occupancy.				
Hydrology and Water Quality					
HYD/mm-1.1	<p>The Foundation shall implement the following non-structural Best Management Practices (BMPs) for the life of the project:</p> <p><u>Open Paved Areas and Biofiltration Planter Areas</u></p> <ul style="list-style-type: none">Regular sweeping of all open and planter areas, at a minimum, on a weekly basis in order to prevent dispersal of pollutants that may collect on those surfaces.Regular pruning of the trees and shrubs in the planter areas to avoid formation of dried leaves and twigs, which are normally blown by the wind during windy days. These dried leaves are likely to clog the surface inlets of the drainage system when rain comes, which would result in flooding of the surrounding area due to reduced flow capacities of the inlets.Trash and recycling containers shall be used such that, if they are to be located outside or apart from the principal structure, are fully enclosed and watertight in order to prevent contact of stormwater with waste matter, which can be a potential source of bacteria and other pollutants in runoff. These containers shall be emptied and the wastes disposed of properly on a regular basis. <p><u>Education and Training</u></p> <ul style="list-style-type: none">Annual training of employees on property management and proper methods of handling and disposal of waste shall be provided. Employees should understand the on-site BMPs and their maintenance requirements. <p><u>Landscape Management</u></p> <ul style="list-style-type: none">Landscaping shall be maintained using minimum or no pesticides. <p><u>Litter Control</u></p> <ul style="list-style-type: none">An adequate number of trash receptacles shall be provided and inspected regularly. Leaky receptacles shall be prepared or replaced. Receptacles shall be covered.Prohibit/prevent dumping of liquid or hazardous wastes. Post “no hazardous materials” signs. Inspect and pick up litter daily and clean up spills immediately. Keep spill control materials available on-site.	Include non-structural Best Management Practices as identified on final design plans and implement throughout lifetime of the project.	Upon project completion and throughout lifetime of the project.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<p><u>Housekeeping of Loading Docks</u></p> <ul style="list-style-type: none">Loaded and unloaded items shall be moved indoors as soon as possible. <p><u>Catch Basin Inspection</u></p> <ul style="list-style-type: none">Stormwater pollution prevention information shall be provided. Owner shall be made aware that the following is to be followed: "Property owner shall not allow anyone to discharge anything to storm drains or to store or deposit materials so as to create potential discharge to storm drains."Catch basins shall be inspected regularly. <p><u>Design and Construct Trash and Waste Storage Areas to Reduce Pollutant Introduction</u></p> <ul style="list-style-type: none">Trash and waste will be handled and stored for pickup adjacent to the loading dock. This limits the potential introduction of pollutants into the site. Trash and waste pickup will occur regularly. <p><u>Use Efficient Irrigation Systems and Landscaping Design</u></p> <ul style="list-style-type: none">Landscape shall be generally designed to provide an efficient and continuous irrigation system.Landscape areas shall be designed to include plants that are friendly to the climate of Los Angeles. <p><u>Storm Drain Stencil Signage</u></p> <ul style="list-style-type: none">Stencil or label all storm drain inlets and catch basins, constructed or modified, within the project area with prohibitive language to prevent dumping of improper materials into the urban runoff conveyance system.				
HYD/mm-1.2	<p>The Foundation shall ensure all structural and non-structural Best Management Practices (BMPs) are operated, monitored, and maintained for the life of the project pursuant to the following:</p> <ul style="list-style-type: none">All structural BMPs shall be inspected, cleaned-out, and where necessary, repaired, at the following minimum frequencies: 1) prior to October 15th each year; 2) during each month between October 15th and April 15th of each year and, 3) at least twice during the dry season (between April 16th and October 14th of each year).Debris and other water pollutants removed from structural BMPs during cleanout shall be contained and disposed of in a proper manner.The drainage system, the associated structures, and BMPs shall be maintained according to manufacturer's specification to ensure maximum pollutant removal efficiencies.	Ensure all structural and non-structural Best Management Practices are operated, monitored, and maintained as identified.	Upon project completion and throughout lifetime of the project.	Foundation	County Museum of Natural History
Noise and Vibration					
NOI/mm-1.1	<p>The following measures shall be implemented to reduce construction-related noise impacts:</p> <p>a. Operation of equipment used in construction, alteration, drilling, or demolition work shall be prohibited between the hours of 7:00 p.m. and 7:00 a.m., Monday through Friday; before 8:00 a.m. or after 6:00 p.m. on Saturday; and any time on Sundays or legal holidays.</p>	Implement identified measures.	During construction activities on the project site.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<p>b. A temporary barrier shall be erected around active construction areas. The placement and height of the barrier shall be adjusted based on the specific location of construction activities within the site, ensuring that the barriers are positioned as close as feasible to the work area and are sufficiently tall to maximize effectiveness in minimizing direct noise transmission to surrounding areas, such that a sound reduction of 10 dBA is achieved at the property lines on the east side of Curson Avenue and north side of 6th Street. Prior to the commencement of each construction phase, a phase-specific acoustic analysis shall be conducted to determine the optimal placement and configuration of noise barriers. In consultation with an acoustical engineer, the barrier configuration may be modified to address the specific conditions of phased construction, provided that the adjustments achieve an equivalent noise reduction outcome.</p> <p>c. Noise levels from powered equipment or powered hand tools at a distance of 50 feet from the noise source or within 500 feet of a residential zone will be limited to 75 dBA, such limits shall not apply where compliance is technically infeasible. Technical infeasibility means that the noise limit cannot be achieved despite the use of mufflers, shields, sound barriers, and/or other noise reduction devices or techniques during operation of the equipment.</p> <p>d. All construction equipment shall be properly maintained per manufacturers' specifications and fitted with the best available noise-suppression devices.</p> <p>e. Pneumatic tools used at the site shall be equipped with an exhaust muffler on the compressed air exhaust to minimize noise levels.</p> <p>f. Stationary noise sources shall be located as far from adjacent sensitive receptors as possible and shall be muffled and enclosed within temporary sheds or insulated barriers when possible.</p> <p>g. Prior to commencement of construction, a designated project contact person will directly notify the management of any surrounding residential properties located within 100 feet of the project site about the construction schedule and activities and provide a contact number to address any noise-related complaints during construction.</p> <p>h. A designated point of contact shall be identified to address noise-related complaints during construction. The noise disturbance coordinator will be responsible for responding to any local complaints about construction noise.</p>				
TRA/mm-1.1	<p>In consultation with the LADOT, the Los Angeles County Museum of Natural History Foundation (Foundation) shall prepare and implement a Transportation Demand Management (TDM) Program to reduce museum employee and visitor vehicle trips and increase alternative modes such as walking, bicycling, public transit, and rideshare.</p> <p>The Foundation shall designate an existing member of staff as the on-site TDM Coordinator. This coordinator shall be responsible for monitoring and tracking employee and visitor mode share and annual reporting to LADOT.</p>	<p>Prepare and implement a Transportation Demand Management Program as identified and designate on-site Transportation Demand Management Coordinator.</p>	<p>Upon completion of project construction activities.</p>	<p>Foundation</p>	<p>County Museum of Natural History City of Los Angeles Department of Transportation</p>

Employee Strategies:

Information shall be distributed to employees and displayed on a bulletin board, display case, or kiosk (displaying transportation information) where the greatest number of employees are likely to see it. The following measures may be applied to reduce employee vehicle trips and VMT:

- Provide a transportation information bulletin board on-site with public transit information, contact information for rideshare and transit, ridesharing promotional material, bike route and facility information, and listing of on-site services or facilities.
- Provide facilities on-site to support bicycling to work, such as secure bike parking, showers, and lockers.
- Encourage and support participation in Metro vanpool, including subsidies for participation.
- Implement paid parking for employees.
- Subsidize transit passes.
- Offer flexible work schedules and telecommuting, when feasible.

Visitor Strategies:

Transportation information for visitors shall be displayed on the La Brea Tar Pit's website and distributed with physical marketing materials. The following measures may be applied to reduce visitor vehicle trips and VMT:

- Advertise and offer discounted museum tickets for visitors who use public transit or a bicycle to visit the project.
 - Provide and maintain secure on-site bicycle parking for visitors and monitor usage to determine if additional bicycle racks are needed.
 - Provide wayfinding signage directing bicyclists from the visitor entrances to where on-site bicycle parking is located.
 - Ensure bicycle parking is well lit and monitored by staff.
 - Continue to have paid parking for visitors.
 - Coordinate with Metro to improve transit access and user comfort and encourage visitors to take local bus service or the future Purple Line extension to the La Brea Tar Pits, through the following measures:
 - Improve pedestrian wayfinding between the planned Purple Line station, local bus stops, and the La Brea Tar Pits.
 - Implement bus stop improvements such as shelters along Wilshire Boulevard bus stops that would be used by La Brea Tar Pits visitors.
 - Coordinate with Metro and the City of Los Angeles to ensure that safe and comfortable pedestrian facilities (such as ADA curb ramps and continental crosswalks) are available between local bus stops and the project entrances, including at the Curson Avenue/ Wilshire Boulevard intersection.
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Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<ul style="list-style-type: none">Coordinate with the City of Los Angeles to implement planned bikeways in the vicinity of the project site and contribute to the implementation of the bikeways. This includes planned bikeways along Wilshire Boulevard and West 6th Street.				
TRA/mm-4.1	<p>A construction traffic management plan (CTMP) shall be developed by the contractor, approved by the County, the City of Los Angeles Department of Transportation (LADOT), Caltrans, and LA Metro, and implemented to alleviate construction period impacts. The CTMP will include, but may not be limited to, the following restrictions:</p> <ul style="list-style-type: none">Prohibition of construction worker parking on nearby residential streets.Prohibition of construction-related vehicles parking or staging on surrounding public streets.Prohibition of construction-related parking or staging on streets with bus service.Temporary pedestrian and vehicular traffic controls (i.e., flag persons) during all construction activities adjacent to public rights-of-way to improve traffic flow on public roadways.Safety precautions for pedestrians and bicyclists through such measures as alternate routing and protection barriers shall be implemented as appropriate.Scheduling of construction-related deliveries, haul trips, etc., shall occur outside the commuter peak hours to the extent feasible.Avoidance of construction-related deliveries, haul trips, etc. from routing along congested local and state facilities, to the extent feasible.Relocation and accommodation (as needed) of adjacent bus stops and access, to the extent feasible.	Prepare a construction traffic management plan.	Prior to commencement of construction activities.	Foundation and Project Contractor	County Museum of Natural History City of Los Angeles Department of Transportation
TRA/mm-4.2	Consultation shall occur with the City of Los Angeles Fire Department (LAFD) to analyze the project's emergency access design, including a review of the proposed vehicle access points. Construction activities and their impact on emergency access shall also be reviewed to ensure that the final design provides adequate access to the project site and neighboring businesses and residences.	Consult with City of Los Angeles Fire Department regarding emergency access.	Prior to finalization and approval of final design plans.	Foundation	County Museum of Natural History City of Los Angeles Fire Department
TRA/mm-4.3	<p>To improve emergency access safety and circulation, coordination shall occur with LADOT to explore the feasibility of implementing one or more of the following improvements:</p> <ul style="list-style-type: none">Signal timing at the built-out intersection of Curson Avenue/Wilshire Boulevard shall be regularly updated to optimize traffic signal timing. In addition, the weekday a.m. and p.m. peak period bus-only lanes on Wilshire Boulevard shall be extended to the weekday midday and weekend midday peak hours to improve bus operations through that intersection.Signal timing at the Curson Avenue/West 6th Street intersection shall be regularly updated to optimize splits. In addition, improve existing lane striping to extend the northbound left-turn lane at the intersection, and/or add an inbound left-turn lane at the project's Curson Avenue driveway.	Consult with City of Los Angeles Fire Department regarding emergency access.	Prior to finalization and approval of final design plans.	Foundation	County Museum of Natural History City of Los Angeles Fire Department

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<ul style="list-style-type: none">Incorporate safety features to accommodate passenger pick-up and drop-off along West 6th Street when planned separated bike lanes are implemented.Monitor driveway operations at Curson Avenue.The County of Los Angeles does not have the authority to impose these measures because they are within the discretionally authority of the City of Los Angeles. Thus, while they are recommended, the County of Los Angeles is not required to implement them. However, the requirement to coordinate with the City and facilitate possible implementation of the above measures shall be required.				
Tribal Cultural Resources					
TCR/mm-1.1	<p>Retain Tribal Consultants.</p> <p>a. Prior to any ground-disturbing activities on the project site associated with the proposed project, the Gabrieleno Band of Mission Indians – Kizh Nation and Gabrieleno/Tongva San Gabriel Band of Mission Indians shall be retained as Tribal Consultants. Each of the Tribal Consultants shall provide the services of a representative, known as a Tribal Monitor. The Tribal Monitors shall be present on-site and carry out actions described in the Archaeological and Tribal Cultural Resources Management Plan (AR-TCR Management Plan) and any actions required to comply with mitigation measures for tribal cultural resources. These actions shall include but not be limited to monitoring ground-disturbing activities. Ground disturbing activities are defined as excavating, digging, trenching, plowing, drilling, tunneling, quarrying, grading, leveling, removing trees, clearing, driving posts or pilings, augering, backfilling, blasting, stripping topsoil or a similar activity at the project site. The frequency of the monitoring services shall be provided on a rotational basis as outlined in TCR/mm-1.3.</p> <p>b. At least 21 days before any ground disturbing activities commence, each of the Tribal Consultants shall submit a letter of retention to the Museum of Natural History confirming that the that they have been retained consistent with the terms of the TCR/mm-1.1.</p>	<p>Retain Tribal Consultants from the Gabrieleno Band of Mission Indians – Kizh Nation and Gabrieleno/Tongva San Gabriel Band of Mission Indians.</p> <p>Implement the AR-TCR Management Plan.</p>	Prior to any ground-disturbing activities.	Foundation	County Museum of Natural History

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
TCR/mm-1.2	<p>Prior to any ground-disturbing activities on the project site associated with the proposed project, the Tribal Consultants or Tribal Monitor shall provide a worker training to on-site project personnel responsible for supervising ground-disturbing activities (i.e., foreman or supervisor) and machine operators. The initial training shall be conducted prior to the start of ground-disturbing activities in the project site. The worker training shall include but not be limited to any topics related to protocols related to tribal cultural resources, regulatory compliance requirements, monitoring procedures and stop-work restrictions, and any other applicable mitigation measures that must be adhered to during ground-disturbing activities for the protection of tribal cultural resources. As an element of the worker training, the Tribal Consultants or Tribal Monitor shall advise the construction crews on proper procedures to follow if an unanticipated tribal cultural resource is discovered during construction whether a Tribal Monitor is present or not. The Tribal Consultants or Tribal Monitor shall also provide the construction workers with contact information for the Tribal Consultants and Tribal Monitors. Once the ground disturbances have commenced, the need for additional or supplemental worker training shall be determined through consultation with the Tribal Consultants, and project proponent or their designated project supervisor. Within 5 days of completing a worker training, a list of those in attendance shall be provided to the Museum of Natural History by the Tribal Consultants, the Qualified Archaeologist, or a designee of either parties.</p>	<p>Provide worker training to on-site project personnel responsible for supervising ground-disturbing activities from the identified Tribal Consultants or Tribal Monitor.</p>	<p>Prior to any ground-disturbing activities.</p>	<p>Foundation</p>	<p>County Museum of Natural History</p>
TCR/mm-1.3	<p>Monitoring for Tribal Cultural Resources.</p> <p>a. Prior to any ground-disturbing activities associated with the project, a minimum of one Tribal Monitor shall be present during ground-disturbing activities as stipulated in the AR-TCR Management Plan. The AR-TCR Management Plan shall establish a monitoring schedule in a manner that provides opportunities for each of the three Tribal Consultants to participate in monitoring throughout the project's duration and within specific project phases that involve ground-disturbing activities. The monitoring schedule shall be determined at the sole discretion of the Museum of Natural History. The Museum of Natural History or their designee shall notify each Tribal Consultant in advance of its assigned monitoring period to allow for adequate preparation and planning. The Qualified Archaeologist shall be responsible for coordinating and communicating with the Tribal Consultants to address the need for consistency in reporting of the results during the rotational monitoring process. If one Tribal Monitor is unable to attend on a given day, but another Tribal Monitor is present, ground disturbing work shall commence. The need for additional monitors exceeding the two respective Tribal Monitors shall be assessed if the areas subject to monitoring exceeds what can be reasonably covered. The Tribal Monitors shall work under the direction of their respective Tribal Consultant. The Tribal Monitors shall complete daily monitoring logs that provide descriptions of the relevant ground-disturbing activities (the type of construction activities performed and location of ground-disturbing activities), sediment types, presence or absence of tribal cultural resources or potential tribal cultural resources, and any other facts, conditions, materials, or discoveries of significance to the Tribal Consultants. Monitor logs shall identify and describe any discovered tribal cultural resources or potential tribal cultural resources as defined in Public Resources Code Section 21074(a), which includes but is not limited to Native American artifacts, remains, places of significance, as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitor logs shall be provided to the project lead agency and the Qualified Archaeologist for purposes of summarizing in the monitoring report.</p>	<p>Provide monitoring for Tribal Cultural Resources pursuant to the AR-TCR Management Plan.</p>	<p>Prior to and during any ground-disturbing activities.</p>	<p>Foundation</p>	<p>County Museum of Natural History</p>

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
	<p>b. The Tribal Monitors shall have the authority to temporarily halt or redirect construction activities if a tribal cultural resource or potential tribal cultural resource is exposed during construction. If a tribal cultural resource or potential tribal cultural resource is identified, work in the immediate vicinity (not less than 50 feet) of the find shall stop unless another distance is determined by both the Tribal and Archaeological Monitors, which shall consider the nature of the find and the potential for additional portions of the resource to remain buried in the unexcavated areas of the project site. Construction activities may continue in other areas in coordination with the qualified archaeologist and tribal consultant.</p> <p>c. If a potential component of the existing tribal cultural resource (LAN-159/H) is identified, it shall be assessed by the Tribal Consultants as a tribal cultural resource in terms of its cultural value, based on tribal expertise, and supported by substantial evidence. If the discovery is archaeological in nature, then the assessment shall also incorporate the Qualified Archaeologist's evaluation as a potential contributor to the significance of LAN-159/H based on the California Register of Historical Resources criteria or as a unique archaeological resource, as specific in the AR-TCR Management Plan and in substantial conformance with the Archaeological and Tribal Cultural Resources Assessment. Any identified tribal cultural resources shall be assessed by both Tribal Consultants and the materials shall be cataloged and stored at the Page Museum for the period in which the ground-disturbing activities are occurring. Further analysis and the disposition of any collected materials shall be determined through consultation with the Tribal Consultant, the County, and informed by the evaluation of the materials as elements that contribute to the significance of the archaeological resource. Any consultation required shall occur on an as-needed basis during the ground-disturbing activities and continue after tribal monitoring has concluded as part of the reporting process described in Part F of TCR/mm-1.4 and CR-ARCH/mm-1.4.</p> <p>d. If initial monitoring identifies no further sensitivity (i.e., sediments incapable of containing tribal cultural resources) below a certain depth or within a certain portion of the project site, a corresponding reduction of monitoring coverage would be appropriate. The reasoning for and scale of the recommended reduction shall be assessed by the Tribal Consultant in consultation with the Qualified Archaeologist and communicated to the Museum of Natural History in writing prior to reduction. Monitoring for tribal cultural resources shall be required until there is written confirmation from the County or a supervisor responsible for overseeing the ground-disturbing activities that there shall be no further ground-disturbing activities on the project site or in connection with the project site, either for the duration of the project.</p> <p>e. Within one month of concluding the tribal cultural resources monitoring, the Tribal Consultants shall prepare a memo stating that the monitoring requirements have been fulfilled consistent with the terms of TCR/mm-1.3 and summarize the results of any finds and actions taken by the tribal monitor to implement the final measures related to tribal cultural resources. The memo shall be submitted to the Museum of Natural History and the Qualified Archaeologist to be attached to a final archaeological and tribal monitoring report prepared by the Qualified Archaeologist consistent with CR-ARCH/mm-1.4.</p>				

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party	
				Implementation	Verification of Compliance
TCR/mm-1.4	If human remains are encountered during construction all ground-disturbing work shall be immediately diverted from the discovery as directed by the Tribal Consultant and Qualified Archaeologist and based on consideration of the possibility that additional or multiple Native American human remains may be located in the project site, and after having considered whether the bones are human or faunal. Upon discovery of human remains, whether the archaeological or tribal monitor is present, the Los Angeles County Coroner's Office shall be notified, as prescribed in PRC Section 5097.98 and Health and Safety Code Section 7050.5. If the Coroner determines that the remains are of Native American origin, the Coroner shall proceed as directed in Section 15064.5(e) of the State CEQA Guidelines, and as specified in the TCRMMP, which require the coroner to notify the NAHC who will appoint a Most Likely Descendent (MLD). Funerary objects, called associated grave goods in PRC 5097.98, are also to be treated accordingly. While the coroner determines whether the remains are Native American and the MLD is designated and notified, the discovery is to remain confidential and secure to prevent any further disturbance.	Cease work in the event of discovery and contact the County Coroner.	During ground-disturbing activities.	Foundation	County Museum of Natural History
Utilities and Service Systems					
UTL/mm-1.1	To confirm the sewer system serving the project site can accommodate the total wastewater flows generated by the project, the Los Angeles County Museum of Natural History Foundation (Foundation) shall coordinate with Los Angeles Sanitation and Environment (LASAN) during project permitting and prior to construction for confirmation of sewer system capacity. LASAN shall make this determination by conducting detailed gauging and further evaluation to identify a specific sewer connection point and/or to determine if upgrading or additional sewer lines are necessary to accommodate the project.	Coordinate with Los Angeles Sanitation and Environment for confirmation of sewer system capacity.	During project permitting and prior to construction.	Foundation	County Museum of Natural History Los Angeles Sanitation and Environment