

# **Attachment A**

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Mitigation Monitoring and  
Reporting Program



# MITIGATION MONITORING AND REPORTING PROGRAM

## INTRODUCTION

CEQA and the State CEQA Guidelines (PRC Section 21081.6 and State CEQA Guidelines Sections 15091[d] and 15097) require public agencies “to adopt a reporting and monitoring program for changes to the project which it has adopted or made a condition of project approval to mitigate or avoid significant effects on the environment.”

This Environmental Mitigation Monitoring and Reporting Program (MMRP) has been prepared to provide for the monitoring of mitigation measures required of the New Zoo at Elk Grove (New Zoo, or Project), as set forth in the Final Environmental Impact Report (Final EIR).

The City of Elk Grove is the Lead Agency that must adopt the MMRP for the Project. This report will be kept on file with the City of Elk Grove, 8401 Laguna Palms Way, Elk Grove, California 95758.

The CEQA statutes and Guidelines provide direction for clarifying and managing the complex relationships between a lead agency and other agencies with implementing and monitoring mitigation measures. In accordance with CEQA Guidelines Section 15097(d), “each agency has the discretion to choose its own approach to monitoring or reporting; and each agency has its own special expertise.” This discretion will be exercised by implementing agencies at the time they undertake any of portion of the Project, as identified in the EIR.

## PURPOSE OF MITIGATION MONITORING AND REPORTING PROGRAM

The intent of the MMRP is to ensure the effective implementation and enforcement of adopted mitigation measures. The MMRP is intended to be used by City staff and others responsible for Project implementation. This document identifies the individual mitigation measures, the party responsible for monitoring implementation of the measure, the timing of implementation, and space to confirm implementation of the mitigation measures.

## ROLES AND RESPONSIBILITIES

Unless otherwise specified herein, the Sacramento Zoological Society or the City is responsible for taking all actions necessary to implement the mitigation measures under its jurisdiction according to the specifications provided for each measure and for demonstrating that the action has been successfully completed.

## CHANGES TO MITIGATION MEASURES

Any substantive change in the MMRP is required to be reported in writing. Modifications to the mitigation measure may be made by the responsible agency, subject to one of the following findings, and documented by evidence included in the public record:

- ▶ The mitigation measure included in the EIR and the MMRP is no longer required because the significant environmental impact identified in the EIR has been found not to exist, or to occur at a level which makes the impact less than significant as a result of changes in the Project, changes in environment conditions, or other factors.

OR,

- ▶ The modified or substitute mitigation measure provides a level of environmental protection equal to, or greater than that afforded by the mitigation measure included in the EIR and the MMRP; and,

- ▶ The modified or substitute mitigation measure or measures do not have significant adverse effects on the environment in addition to, or greater than those which were considered by the responsible hearing bodies in their decisions on the EIR and the proposed Project; and,
- ▶ The modified or substitute mitigation measure are feasible, and the responsible agency, through measures included in the MMRP or other procedures, can ensure implementation.

## SUPPORTING DOCUMENTATION

Findings and related documentation supporting the findings involving modifications to the mitigation measure shall be maintained in the Project file with this MMRP and shall be made available to the public upon request.

This MMRP will be kept on file at:

City of Elk Grove  
Development Services Department  
8401 Laguna Palms Way  
Elk Grove, CA 95758

## MITIGATION MONITORING AND REPORTING PROGRAM TABLE

The categories identified in the attached MMRP table are described below.

- ▶ Mitigation Measure – This column provides the verbatim text of the adopted mitigation measure
- ▶ Monitoring and Reporting Procedure – This column identifies the party responsible for implementing the mitigation measure.
- ▶ Timing – This column identifies the time frame in which the mitigation will be implemented.
- ▶ Verification – This column identifies the party responsible for verifying compliance and is to be dated and signed by that party (either project manager or his/her designee).

**New Zoo at Elk Grove Mitigation Monitoring and Reporting Program**

Mitigation Measures	Implementation Responsibility	Timing	Verification
<b>Agricultural Resources</b>			
<p><b>General Plan EIR Mitigation Measure 3.11-1 Agricultural Resources Preservation for the LEA Community Plan Area</b></p> <p>The applicant of subsequent development projects in the LEA Community Plan Area shall protect one acre of existing farmland land of equal or higher quality for each acre of Prime Farmland, Unique Farmland or Farmland of Statewide Importance that would be developed as a result of the Project. The Project mitigation acreage must be located within Sacramento County. This protection may consist of the establishment of farmland conservation easement, farmland deed restriction or other appropriate farmland conservation mechanism that ensures the preservation of that land from conversion in perpetuity, but may also be utilized for compatible wildlife habitat conservation efforts (e.g., Swainson’s hawk foraging habitat mitigation). In deciding whether to approve the land proposed for preservation by the Project applicant, the City shall consider the benefits of preserving farmlands in proximity to other protected lands. The farmland/wildlife habitat must have adequate water supply to support agricultural use. The preservation of off-site farmland shall be done prior to the City’s approval of the project’s first grading permit. Grading plans shall include the acreage and type of farmland impacted. In addition, the City shall impose the following minimum conservation easement content standards:</p> <ol style="list-style-type: none"> <li>a) All owners of the agricultural/wildlife habitat mitigation land shall execute the document encumbering the land.</li> <li>b) The document shall be recordable and contain an accurate legal description of the agricultural/wildlife habitat mitigation land.</li> <li>c) The document shall prohibit any activity which substantially impairs or diminishes the agricultural productivity of the land. If the conservation easement is also proposed for wildlife habitat mitigation purposes, the document shall also prohibit any activity which substantially impairs or diminishes the wildlife habitat suitability of the land.</li> <li>d) The document shall protect any existing water rights necessary to maintain agricultural uses on the land covered by the document, and retain such water rights for ongoing use on the agricultural/wildlife habitat mitigation land.</li> <li>e) Interests in agricultural/habitat mitigation land shall be held in trust by an entity acceptable to the City and/or the City in perpetuity. The entity shall not sell, lease, or convey any interest in agricultural/wildlife habitat</li> </ol>	<p>City of Elk Grove</p>	<p>The Sacramento Zoological Society shall preserve farmland prior to the City’s approval of the Project grading permit.</p>	

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>mitigation land which it shall acquire without the prior written approval of the City.</p> <p>f) The applicant shall pay to the City an agricultural/wildlife habitat mitigation monitoring fee to cover the costs of administering, monitoring and enforcing the document in an amount determined by the receiving entity, not to exceed 10 percent of the easement price paid by the applicant, or a different amount approved by the City Council, not to exceed 15 percent of the easement price paid by the applicant.</p> <p>g) The City shall be named a beneficiary under any document conveying the interest in the agricultural/wildlife habitat mitigation land to an entity acceptable to the City.</p> <p>h) If any qualifying entity owning an interest in agricultural/wildlife habitat mitigation land ceases to exist, the duty to hold, administer, monitor and enforce the interest shall be transferred to another entity acceptable to the City.</p>			
<b>Air Quality</b>			
<p><b>Mitigation Measure 3.2-1: Implement SMAQMD’s Basic Construction Emissions Control Practices</b></p> <p>SMAQMD requires construction projects to implement basic construction emissions control practices to control fugitive dust and diesel exhaust emissions. These basic construction emissions control practices are considered best management practices, as recommended by SMAQMD. The New Zoo shall implement the following control measures during Project construction:</p> <ul style="list-style-type: none"> <li>▶ Control fugitive dust as required by SMAQMD Rule 403 and enforced by SMAQMD staff.</li> <li>▶ Water all exposed surfaces twice daily. Exposed surfaces include but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads.</li> <li>▶ Cover or maintain at least 2 feet of freeboard space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would travel along freeways or major roadways should be covered.</li> <li>▶ Use wet power vacuum street sweepers to remove any visible track-out of mud or dirt from adjacent public roads at least once a day. Use of dry power sweeping is prohibited.</li> </ul>	<p>City of Elk Grove</p>	<p>The Sacramento Zoological Society shall implement basic construction emissions control practices during Project construction</p>	

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<ul style="list-style-type: none"> <li>▶ Complete all roadways, driveways, sidewalks, and parking lots to be paved as soon as possible. In addition, lay building pads as soon as possible after grading unless seeding or soil binders are used.</li> <li>▶ Limit vehicle speeds on unpaved roads to 15 miles per hour.</li> <li>▶ Minimize idling time, either by shutting equipment off when it is not in use or by reducing the time of idling to 5 minutes (required by 13 CCR Sections 2449[d][3] and 2485). Provide clear signage that posts this requirement for workers at the site entrances.</li> <li>▶ Maintain all construction equipment in proper working condition according to the manufacturers’ specifications. The equipment must undergo a one-time inspection by a certified mechanic and be determined to be running in proper condition before the start of construction activities.</li> </ul>			
<p><b>Mitigation Measure 3.2-3: Apply Tier-4 Emission Standards to All Diesel-Powered Off-Road Equipment</b></p> <p>The New Zoo shall require the construction contractor to use only off-road construction equipment that meets EPA’s Tier 4 emission standards, as defined in 40 CFR 1039, and to comply with the appropriate test procedures and provisions contained in 40 CFR Parts 1065 and 1068. This measure can also be achieved by using battery-electric off-road equipment as it becomes available. Implementation of this measure shall be required in the contract the Project applicant establishes with its construction contractors. The New Zoo shall demonstrate its plan to fulfill the requirements of this measure in a report or in Project improvement plan details submitted to the City before the use of any off-road diesel-powered construction equipment on the site.</p>	<p>City of Elk Grove</p>	<p>The Sacramento Zoological Society shall submit its plan for Tier 4 emissions standards to the City before the use of off-road diesel-powered construction equipment.</p> <p>Tier 4 emissions standards shall be used during construction.</p>	
<p><b>Biological Resources</b></p>			
<p><b>Mitigation Measure 3.3-1a: Conduct Take Avoidance Survey for Burrowing Owl, Implement Avoidance Measures, and Compensate for Loss of Occupied Burrows</b></p> <p>The New Zoo shall implement the following measures to reduce impacts on burrowing owl:</p> <ul style="list-style-type: none"> <li>▶ A qualified biologist shall conduct focused breeding and nonbreeding season surveys for burrowing owls in areas of suitable habitat on and within 500 feet of the Project site. To ensure accuracy and the most up-to-date information, surveys shall be conducted before the start of construction activities and in accordance with Appendix D of the Staff Report on Burrowing Owl Mitigation (CDFG 2012), which recommends at least three surveys conducted at least 3 weeks apart.</li> </ul>	<p>City of Elk Grove</p>	<p>The Sacramento Zoological Society shall conduct focused surveys prior to project construction.</p> <p>If burrows are found burrows shall be protected during construction.</p> <p>If burrows are destroyed they should be mitigated prior to operation of the Project.</p>	

Mitigation Measures	Implementation Responsibility	Timing	Verification
<ul style="list-style-type: none"> <li>▶ If no occupied burrows are found, the qualified biologist shall submit a report documenting the survey methods and results to the City, and no further mitigation shall be required.</li> <li>▶ If an active burrow is found during the nonbreeding season (September 1 through January 31), the applicant shall consult with CDFW regarding protective buffers to be established around the occupied burrow and maintained throughout construction. The buffer shall be a minimum of 164 feet around the active, nonbreeding burrow but may be reduced in consultation with CDFW. The protective buffer zone shall be clearly marked with flagging or other highly visible materials. If after all applicable avoidance and minimization measures are implemented, it is determined that occupied burrows are present that cannot be avoided or adequately protected with a no-disturbance buffer, passive relocation will be allowed as a last resort in consultation with CDFW. The burrowing owl exclusion plan shall be developed, as described in Appendix E of the Staff Report. Burrowing owls shall not be excluded from occupied burrows until the Project burrowing owl exclusion plan is approved by CDFW and only during the nonbreeding season. The exclusion plan shall include methods for determining burrow vacancy, type and timing for scoping burrows, what will determine excavation timing, a monitoring plan for determining exclusion has been successful, remedial measures to prevent owl reuse and avoid take, and a burrowing owl mitigation and management plan (see below).</li> <li>▶ If an active burrow is found during the breeding season (February 1 through August 31), occupied burrows shall not be disturbed and shall be provided with a protective buffer at a minimum of 650 feet unless a qualified biologist verifies through noninvasive means that either (1) the birds have not begun egg laying or (2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. The size of the buffer may be adjusted depending on the time of year and level of disturbance as outlined in the Staff Report (CDFG 2012: 9). The size of the buffer may be reduced if a broad-scale, long-term monitoring program acceptable to CDFW is implemented so that burrowing owls are not adversely affected. After the fledglings are capable of independent survival, the owls can be evicted, and the burrow can be destroyed in accordance with the terms of a CDFW-approved burrowing owl exclusion plan developed in accordance with Appendix E of the Staff Report.</li> <li>▶ If burrowing owls are excluded from burrows and the burrows are destroyed as a result of Project construction activities, the applicant shall mitigate the loss of occupied habitat such that habitat acreage and the number of burrows are replaced through permanent conservation of comparable or better habitat</li> </ul>			



Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>at a 1:1 mitigation ratio with similar vegetation communities and burrowing mammals (e.g., ground squirrels) present to provide for nesting, foraging, wintering, and dispersal. The applicant shall retain a qualified biologist to develop a burrowing owl mitigation and management plan that incorporates the following goals and standards, among others:</p> <ul style="list-style-type: none"> <li>▪ Mitigation lands shall be selected based on comparison of the habitat lost to the compensatory habitat, including type and structure of habitat; disturbance levels; potential for conflicts with humans, pets, and other wildlife; density of burrowing owls; and relative importance of the habitat to the species throughout its range.</li> <li>▪ Where available, mitigation lands shall be provided adjacent or proximate to the development area so that displaced owls can relocate with reduced risk of injury or mortality, depending on the availability of habitat sufficient to support displaced owls that may be preserved in perpetuity.</li> </ul> <p>► If habitat suitable for burrowing owl is not available for conservation adjacent or proximate to the development area, mitigation lands shall be secured off-site and shall aim to consolidate and enlarge conservation areas outside of planned development areas and within foraging distance of other conservation lands. Alternatively, mitigation may be accomplished through purchase of mitigation credits at a CDFW-approved mitigation bank, if available. Alternative mitigation sites and acreages may also be determined in consultation with CDFW. If burrowing owl habitat mitigation is completed through permittee-responsible conservation lands, the mitigation plan shall include mitigation objectives, site selection factors, site management roles and responsibilities, vegetation management goals, financial assurances and funding mechanisms, performance standards and success criteria, monitoring and reporting protocols, and adaptive management measures. Success shall be based on the number of adult burrowing owls and pairs using the site and whether the numbers are maintained over time. Measures of success, as suggested in the Staff Report, shall include site tenacity, the number of adult owls present and reproducing, colonization by burrowing owls from elsewhere, changes in distribution, and trends in stressors.</p>			
<p><b>Mitigation Measure 3.3-1b: Conduct Focused Surveys for Swainson’s Hawk, White-Tailed Kite, Northern Harrier, Tricolored Blackbird, Loggerhead Shrike, and Other Nesting Birds</b></p> <p>The Project applicant shall implement the following measures to reduce impacts on special-status and other tree-nesting birds:</p>	<p>City of Elk Grove</p>	<p>The Sacramento Zoological Society shall conduct nesting bird surveys 14 days before the onset of Project construction, if construction is scheduled to</p>	

Mitigation Measures	Implementation Responsibility	Timing	Verification
<ul style="list-style-type: none"> <li>▶ To minimize the potential for loss of nesting birds protected under the Migratory Bird Treaty Act or California Fish and Game Code Section 3503, Project construction activities (e.g., tree removal, vegetation clearing, ground disturbance, staging) shall be conducted during the nonbreeding season (approximately September 1 through January 31, as determined by a qualified biologist), when possible. If Project construction activities are conducted during the nonbreeding season, no further mitigation shall be required.</li> <li>▶ Within 14 days before the onset of Project construction activities during the breeding season (approximately February 1 through August 31, as determined by a qualified biologist), a qualified biologist familiar with birds of California and with experience conducting nesting bird surveys shall conduct focused surveys for white-tailed kite, tricolored blackbird, northern harrier, loggerhead shrike, and other nesting birds protected under the Migratory Bird Treaty Act or California Fish and Game Code Section 3503. Surveys shall be conducted in accessible areas (i.e., not including private property) within 500 feet of the Project site for nonraptor native bird nests and within 0.5-mile for raptor nests.</li> <li>▶ Surveys for Swainson’s hawk shall be conducted within a 0.5-mile radius of the Project site in areas accessible to Project biologists. Surveys shall be conducted according to Recommended Timing and Methodology for Swainson’s Hawk Nesting Surveys in California’s Central Valley (SHTAC 2000), which includes the following five-period schedule:                         <ul style="list-style-type: none"> <li>▪ January to March 20: One all-day survey</li> <li>▪ March 20 to April 5: Three surveys, sunrise to 1000/1600 to sunset</li> <li>▪ April 5 to April 20: Three surveys, sunrise to 1200/1630 to sunset</li> <li>▪ April 21 to June 10: Monitoring</li> <li>▪ June 10 to July 30: Three surveys, sunrise to 1200/1600 to sunset</li> </ul> </li> <li>▶ If an active Swainson’s hawk nest is found during surveys, the City shall consult with CDFW to demonstrate compliance with CESA and determine appropriate no-disturbance buffers around active nests to avoid take. The exclusionary buffer shall remain in place until the chicks have fledged or as otherwise determined by a qualified biologist. No Project activity shall commence in the buffer areas until a qualified biologist has determined, in consultation with CDFW, that the young have fledged, the nest is no longer active, or reducing the buffer would not likely result in nest abandonment. CDFW guidelines recommend implementation of 0.5-mile-wide buffer for Swainson’s hawk.</li> </ul>		<p>begin from February 1 through August 31.</p> <p>The Sacramento Zoological Society shall conduct nesting raptor surveys 10 days before the onset of Project construction, if construction is scheduled to begin from March 1 through September 15.</p> <p>A report documenting the survey and findings shall be submitted to the City prior to Project construction.</p> <p>If nesting birds are present they shall be monitored and avoided during construction.</p>	

Mitigation Measures	Implementation Responsibility	Timing	Verification
<ul style="list-style-type: none"> <li>▶ If no nests are found, the qualified biologist shall submit a report documenting the survey methods and results to the City, and no further mitigation shall be required.</li> <li>▶ For Project activities that begin between March 1 and September 15, the qualified biologists shall conduct additional preconstruction surveys for nesting raptors and birds no more than 7 days before implementation of Project activities to identify active nests on and within a 500- foot buffer of the Project site. If a lapse in Project work of 7 days or longer occurs, the qualified biologist shall conduct another focused survey for nesting birds before work can resume.</li> <li>▶ Impacts on white-tailed kite and other raptors shall be avoided by establishing appropriate buffers around active nest sites identified during preconstruction raptor surveys. The exclusionary buffer shall remain in place until the chicks have fledged or as otherwise determined by a qualified biologist. No Project activity shall commence in the buffer areas until a qualified biologist has determined, in consultation with CDFW, that the young have fledged, the nest is no longer active, or reducing the buffer would not likely result in nest abandonment. CDFW guidelines recommend implementation of 500-foot-wide buffer for raptors, other than Swainson’s hawk, but the size of the buffer may be adjusted if a qualified biologist, in consultation with CDFW, determines that such an adjustment would not be likely to adversely affect the nest. The appropriate no-disturbance buffer for other nesting birds (i.e., species other than Swainson’s hawk and burrowing owl) shall be determined by a qualified biologist based on site-specific conditions, the species of nesting bird, the nature of the Project activity, visibility of the disturbance from the nest site, and other relevant circumstances.</li> <li>▶ Monitoring of all active nests by a qualified biologist during construction activities shall be required for any activity has potential to adversely affect the nest. If construction activities cause the nesting bird to vocalize, make defensive flights at intruders, get up from a brooding position, or fly off the nest, then the no-disturbance buffer shall be increased until the agitated behavior ceases. The exclusionary buffer shall remain in place until the chicks have fledged or as otherwise determined appropriate by a qualified biologist to avoid adverse effects on the nest(s). Monitoring of potential nesting activities in the Project area shall continue, at a minimum, until the end of the avian nesting season (September 1).</li> <li>▶ Trees containing white-tailed kite or other raptor (excluding Swainson’s hawk) nests that must be removed as a result of Project implementation shall be</li> </ul>			

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>removed during the non-breeding season (September 1–January 1) unless otherwise authorized by CDFW.</p> <ul style="list-style-type: none"> <li>▶ If any active raptor nest trees discovered during nesting bird surveys would be removed by Project activities, the City of Elk Grove shall replace the lost trees with locally appropriate native tree plantings at a ratio of 3 to 1 at or near the Project area or in another area that will be protected in perpetuity.</li> </ul>			
<p><b>Mitigation Measure 3.3-1c: Mitigate Loss of Swainson’s Hawk Foraging Habitat in Accordance with the City of Elk Grove Swainson’s Hawk Impact Mitigation Fee Program</b></p> <p>The Project applicant shall implement the following measures to mitigate the potential loss of Swainson’s hawk foraging habitat:</p> <ul style="list-style-type: none"> <li>▶ The Project applicant shall acquire conservation easements or other instruments to preserve suitable foraging habitat for Swainson’s hawk. The location of the mitigation parcels, as well as the conservation instruments protecting them, shall be approved by the City.</li> <li>▶ The amount of land preserved shall be at a ratio provided in Chapter 16.130, Swainson’s Hawk Mitigation Fees of the Elk Grove Municipal Code, for each acre developed at the Project site. In deciding whether to approve the land proposed for preservation, the City shall consider the benefits of preserving lands in proximity to other protected lands. The preservation of land shall be secured before any site disturbance, such as clearing or grubbing, or the issuance of any permits for grading, building, or other site improvements, whichever occurs first.</li> <li>▶ The Project applicant shall implement the following minimum conservation easement content standards, or such other requirements as may be updated by the City Council from time to time and as provided in Chapter 16.130: <ul style="list-style-type: none"> <li>▪ The land to be preserved must be found to be suitable Swainson’s hawk foraging habitat as determined by the City based on substantial evidence.</li> <li>▪ The land shall be protected through either fee title or a conservation easement (“legal agreement”) acceptable to the City.</li> <li>▪ The legal agreement shall be recordable and contain an accurate legal description of the mitigation land.</li> <li>▪ The legal agreement shall prohibit any activity that in the sole discretion of the City substantially impairs or diminishes the land’s capacity as suitable Swainson’s hawk foraging habitat.</li> <li>▪ If the land’s suitability as foraging habitat is related to existing agricultural uses on the land, the legal agreement shall protect any existing water rights</li> </ul> </li> </ul>	<p>City of Elk Grove</p>	<p>The Sacramento Zoological Society shall mitigate for loss of Swainson’s Hawk Foraging Habitat prior to opening of the New Zoo.</p>	

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>necessary to maintain such agricultural uses on the land covered by the document and retain such water rights for ongoing use on the mitigation land.</p> <ul style="list-style-type: none"> <li>▪ Mitigation monitoring fees shall be paid to cover the costs of administering, monitoring, and enforcing the document in an amount determined by the City or a third-party receiving entity approved by the City, not to exceed 10 percent of the easement price or a different amount approved by the City Council.</li> <li>▪ Interests in mitigation land shall be held in trust by an entity acceptable to the City and/or the City in perpetuity. The entity shall not sell, lease, or convey any interest in mitigation land without the prior written approval of the City.</li> <li>▪ The City shall be named a beneficiary under any legal agreement conveying the interest in the mitigation land to an entity acceptable to the City, and the City shall receive indemnification and defense, and in any legal agreement.</li> <li>▪ If any qualifying entity owning an interest in mitigation land ceases to exist, the duty to hold, administer, monitor, and enforce the interest shall be transferred to another entity acceptable to the City or to the City.</li> <li>▪ Before committing to the preservation of any land, the applicant shall obtain approval of the land proposed for preservation. This mitigation measure may be fulfilled in combination with a mitigation measure imposed on the Project requiring the preservation of agricultural land as long as the agricultural land is suitable Swainson’s hawk habitat as determined by the City in its sole discretion.</li> </ul>			
<p><b>Mitigation Measure 3.3-1d: Conduct Worker Environmental Awareness Program</b></p> <p>The New Zoo shall retain a qualified biologist to conduct an environmental awareness training program for construction crews before Project construction. The awareness program shall include a brief review of the special-status species with the potential to occur on the Project site (including their life history, habitat requirements, and photographs of the species). The training shall identify the portions of the Project site in which the species may occur, as well as their legal status and protection. The program shall also cover the relevant permit conditions and mitigation measures that must be followed by all construction personnel to reduce or avoid effects on these resources during Project construction. The training shall emphasize the role that the construction crew plays in identifying and reporting any special-status species observations to the onsite biologist. Training shall identify the steps to be taken if a special-status</p>	<p>City of Elk Grove</p>	<p>The Sacramento Zoological shall conduct Society Worker Environmental Awareness prior to the start of construction and as needed for new personnel before starting on the job.</p>	

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>species is found within the construction area (i.e., notifying the crew foreman, who will inform the designated biologist). An environmental awareness handout that describes and illustrates sensitive resources to be avoided during project construction and identifies all relevant permit conditions shall be provided to each crew member. The crew foreman shall be responsible for ensuring that crew members adhere to the guidelines and restrictions. Education programs shall be conducted for new personnel as they are brought on the job during the construction period.</p>			

**Cultural and Tribal Cultural Resources**

<p><b>Mitigation Measure 3.4-1: Halt Ground Disturbance Upon Discovery of Subsurface Archaeological Features during All Ground-Disturbing Construction Activities</b></p> <p>If any precontact or historic-era subsurface archaeological features or deposits (e.g., ceramic shard, trash scatters), including locally darkened soil (“midden”), which may conceal cultural deposits, are discovered during construction, all ground-disturbing activity within 100 feet of the resources shall be halted, and a qualified professional archaeologist (one who meets the Secretary of the Interior’s Professional Qualification Standards for archaeology) shall be retained to assess the significance of the find.</p> <p>If the qualified archaeologist determines the archaeological material to be Native American in nature, the City shall contact the appropriate California Native American tribe, with the Wilton Rancheria tribe being initially contacted. A tribal representative from the Wilton Rancheria, or other appropriate California Native American tribe that is traditionally and culturally affiliated with the Project site, may make recommendations for further evaluation and treatment as necessary and provide input on the preferred treatment of the find. If the find is determined to be significant by the archaeologist or the tribal representative (i.e., because it is determined to constitute a unique archaeological resource or a tribal cultural resource, as appropriate), the archaeologist and tribal representative, as appropriate, shall develop, and the City shall implement, appropriate procedures to protect the integrity of the resource and ensure that no additional resources are affected. Procedures may include but would not necessarily be limited to processing materials for reburial, minimizing handling of cultural objects, leaving objects in place within the landscape, construction monitoring of any further activities by a tribal representative, and or returning the objects to a location within the project area where they will not be subject to future impacts. Wilton Rancheria does not consider curation of TCRs to be appropriate or respectful and requests that materials not be permanently curated, unless specifically requested by the Tribe, archival research, subsurface testing, or contiguous block unit</p>	<p>City of Elk Grove</p>	<p>If potential archaeological features are found work shall be halted during construction.</p> <p>If the find is determined to be significant the appropriate procedures shall be implemented by the Sacramento Zoological Society prior to opening of the New Zoo.</p>	
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Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>excavation and data recovery (pursuant to a data recovery plan). No work at the discovery location shall resume until all necessary investigation and evaluation of the resource has been satisfied. This requirement shall be placed on Project improvement plans and will be verified by the City’s Public Works Department.</p>			
<p><b>Mitigation Measure 3.4-2a: Implement Mitigation Measure 3.4-1</b></p>	<p>City of Elk Grove</p>	<p>If potential archaeological features are found work shall be halted during construction.  If the find is determined to be significant the appropriate procedures shall be implemented by the Sacramento Zoological Society prior to opening of the New Zoo.</p>	
<p><b>Mitigation Measure 3.4-2b: Implement Cultural Awareness Training</b>  Prior to the start of any grading, utility-related excavation, and other ground disturbing phases of construction, individuals participating in work, on-site lead, foreman, City and Sacramento Zoological Society (SZS) staff members, and any other key personnel, shall receive the relevant information regarding sensitive tribal cultural resources, including applicable regulations, protocols for avoidance, and consequences of violating State laws and regulations. The Cultural Awareness Training shall describe appropriate avoidance and minimization measures for resources that have the potential to be located on the Project site and shall outline what to do and whom to contact if any potential archaeological resources or artifacts are encountered. The Cultural Awareness Training shall also underscore the requirement for confidentiality and culturally appropriate treatment of any kind of significance to Native Americans and behaviors, consistent with Native American Tribal values. Upon completion of the Worker Cultural Awareness Program individuals participating in work, on-site lead, foreman, and City and SZS staff members and any other key personnel shall sign a form that acknowledges receipt and understanding of the training. The training may be done in coordination with the Project Archaeologist. The New Zoo shall engage with the Wilton Rancheria Tribe to provide this training</p>	<p>City of Elk Grove</p>	<p>Cultural awareness training shall be conducted by the Sacramento Zoological Society prior to the start of construction and as needed for new personnel before starting on the job.</p>	
<p><b>Mitigation Measure 3.4-2c: Implement Native American Monitoring</b>  For grading, utility-related excavation, and other ground disturbing phases of construction, the New Zoo shall notify Wilton Rancheria and provide access to the Project site for a tribal monitor. The City Public Works Department shall contact the tribal representative a minimum of 7 days before beginning</p>	<p>City of Elk Grove</p>	<p>Native American monitoring shall occur during grading, utility-related excavation, and other ground disturbing phases of construction.</p>	

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>earthwork or other ground-disturbing activities. The tribal monitor will be invited to be present on-site during the construction phases that involve ground-disturbing activities, including tree removal, boring, excavation, drilling, and trenching.</p> <p>Should the tribal monitor be present the City would request copies of complete daily monitoring logs that provide details on each day's activities, including construction activities, locations, soil, and any cultural materials identified. Should a tribal monitor not elect to participate the City's Construction Manager will monitor for potential discoveries. The on-site monitoring shall end when the site grading and excavation activities are completed or when the tribal representatives and monitor have indicated that the site has a low potential for affecting tribal cultural resources.</p>			
<p><b>Geology and Soils</b></p>			
<p><b>Mitigation Measure 3.6-5: Implement Procedures to Protect Paleontological Resources</b></p> <p>Before the start of any earthmoving activities, the New Zoo shall retain a qualified scientist (e.g., geologist, biologist, paleontologist) to train all construction personnel involved with earthmoving activities, including the site superintendent, regarding the possibility of encountering fossils, the appearance and types of fossils likely to be seen during construction, and proper notification procedures to follow if fossils are encountered. Training on paleontological resources shall also be provided to all other construction workers, and a video recording of the initial training and/or written materials may be used rather than in-person training.</p> <p>If any paleontological resources are discovered during grading or construction activities on the Project site, work shall be halted immediately within 50 feet of the discovery, and the City Public Works Department shall be notified immediately. The New Zoo shall retain a qualified paleontologist to evaluate the resource and prepare a recovery plan in accordance with the most current Society of Vertebrate Paleontology guidelines. The recovery plan shall include a field survey, construction monitoring, sampling and data recovery procedures, museum storage coordination for any specimen recovered, and a report of findings. The New Zoo will implement all recommendations in the recovery plan that are determined to be necessary by the City Public Works Department and possible before construction activities resume in the area where the paleontological resources were discovered</p>	<p>City of Elk Grove</p>	<p>Construction personnel shall be trained by Sacramento Zoological Society prior to the start of earth moving construction activities and as needed for new personnel before starting on the job during ground disturbing phases of construction.</p> <p>If paleontological resources are discovered work shall be halted and the find shall be evaluated during construction.</p> <p>The recovery plan shall be implemented during construction.</p>	



Mitigation Measures	Implementation Responsibility	Timing	Verification
<b>Greenhouse Gas Emissions and Climate Change</b>			
<p><b>Mitigation Measure 3.7-1: Install EV Capable and EVSE Spaces Consistent with the Tier 2 Requirements of the 2022 CalGreen Code</b></p> <p>The Zoo shall equip 45 percent of the Project’s total parking spaces with EV capable infrastructure. Of the EV capable spaces, 33 percent shall support EVSE infrastructure with Level 2 or Direct Current Fast Chargers.</p>	City of Elk Grove	Prior to opening of the New Zoo	
<p><b>Mitigation Measure 3.7-1b:</b> Implement Mitigation Measure 3.13-2a: Subsidize Transit for New Zoo Employees.</p>	City of Elk Grove	Transit passes shall be provided by the Sacramento Zoological Society during operation of the New Zoo.	
<p><b>Mitigation Measure 3.7-1bc:</b> Implement Mitigation Measure 3.13-2b: Provide a Local Transit Stop</p>	City of Elk Grove and SacRT	Prior to opening of the New Zoo,	
<b>Noise and Vibration</b>			
<p><b>Mitigation Measure 3.11-1: Implement Measures to Reduce Exposure of Noise-Sensitive Receivers to Construction-Generated Noise</b></p> <p>To minimize noise levels generated by construction activities, the New Zoo shall require its construction contractors to comply with the following measures during construction to reduce construction noise by at least 8 dBA:</p> <ul style="list-style-type: none"> <li>▶ All construction equipment and material staging areas shall be set back as far as possible from nearby off-site noise-sensitive receivers, including but not limited to the residences along Lotz Parkway and Overture Way.</li> <li>▶ All construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturer specifications. Equipment engine shrouds shall be closed during equipment operation.</li> <li>▶ Construction equipment with back-up alarms shall be equipped with either audible self-adjusting backup alarms or alarms that sound only when an object is detected. Self-adjusting backup alarms shall automatically adjust to 5 dBA louder than the surrounding background levels. All non-self-adjusting backup alarms shall be set to the lowest setting required to be audible above the surrounding noise levels.</li> <li>▶ The construction contractor shall use noise-reducing operation measures, techniques, and equipment that reduce construction noise by at least 8 dBA. This requirement shall be enforced through its inclusion on all construction bid specifications for construction contractors hired to work on the Project site.</li> </ul>	City of Elk Grove	Noise reduction measures shall be implemented by the Sacramento Zoological Society during project construction.	

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>The bid specifications shall require that construction contractors provide an equipment inventory list for all equipment within the fleet with engines greater than 50 horsepower. The list will identify (at a minimum), make, model, and horsepower of equipment; operating noise levels at 50 feet; available noise control devices that are installed on each piece of equipment; and associated noise reduction from the installed technology. Control devices shall include, but shall not be limited to, high-efficiency mufflers; acoustic dampening; protected internal noise absorption layers; enclosures; and electric motors. In addition, the contractor shall specify how proposed alternative construction procedures would be employed to reduce noise at sensitive receivers compared to other more traditional methods. Examples include, but are not limited to, welding instead of riveting, mixing concrete off-site instead of on-site, and using a thermal lance instead of drive motors and bits. In all cases, the requirement is that the best commercially available noise-reducing technology and noise-reducing alternative construction method shall be used, provided that there are no safety concerns, engineering limits, or environmental constraints preventing it from being used. If a unique circumstance does exist that prevents a quieter alternative construction method from being used, the contractor shall provide evidence to support its proposal. The noise reduction elements of construction shall be approved by the City.</p> <ul style="list-style-type: none"> <li>▶ Combine noisy operations (e.g., riveting, cutting, hammering) to occur in the same period (e.g., day or construction phase), such that the overall duration of these activities is reduced to the extent practical. When the noisiest operations are performed together within the same period, the overall duration that excessive noise would occur is reduced, minimizing the disturbing effects of exposure to prolonged increased noise levels.</li> <li>▶ The contractor shall designate a disturbance coordinator and post that person's telephone number conspicuously around the publicly accessible portions of the construction site and provide it to nearby residences. A minimum of one sign shall be posted for every 1,000 feet of public frontage, or a minimum of six postings. The disturbance coordinator shall receive all public complaints and be responsible for determining the cause of the complaint and implementing any possible measures to alleviate the problem.</li> <li>▶ When construction activities would occur within 400 feet of existing residential land uses (i.e., the distance at which noise levels of 66 dBA <math>L_{eq}</math> are achieved), the following measures shall be implemented:             <ul style="list-style-type: none"> <li>▪ Use noise-reducing enclosures and techniques around stationary noise-generating equipment (e.g., concrete mixers, generators, compressors).</li> </ul> </li> </ul>			

Mitigation Measures	Implementation Responsibility	Timing	Verification
<ul style="list-style-type: none"> <li>▪ Install temporary noise curtains as close as possible to the boundary of the construction site within the direct line of sight path of the nearby sensitive receptor(s). The noise curtains will consist of durable, flexible composite material featuring a noise barrier layer bounded to sound-absorptive material on one side.</li> <li>▪ Retain a qualified noise specialist to develop a noise monitoring plan, and conduct noise monitoring to ensure that noise reduction measures are achieving the necessary reductions such that levels at the receiving land uses do not exceed 5 dBA over existing levels.</li> </ul>			
<p><b>Mitigation Measure 3.11-5: Restrict Noise Levels from Amplification Devices</b></p> <p>Exterior amplified noise from the nighttime safari shall be limited to a maximum sound level of 65 dBA <math>L_{eq}</math> at approximately 50 feet from the nighttime safari route boundaries by adjusting amplification equipment accordingly. The New Zoo staff/nighttime safari event coordinator shall ensure that sound equipment is calibrated annually. Sound testing of the amplification equipment shall occur annually. Two sound level measurements shall be conducted at 50 feet from the amplification equipment. The sound level meter used for the sound level measurements should meet a minimum Type 2 compliance and be fitted with the manufacturer’s windscreen and calibrated before use. Noise measurement readings shall be used to ensure that 65 dBA <math>L_{eq}</math> at 50 feet is not exceeded.</p>	<p>City of Elk Grove</p>	<p>The Sacramento Zoological Society shall limit amplified noise during operation of the nighttime safari.</p> <p>The amplification equipment shall be tested by the Sacramento Zoological Society once a year.</p>	
<p><b>Traffic and Transportation</b></p>			
<p><b>Mitigation Measure 3.13-2a: Subsidize Transit for New Zoo Employees</b></p> <p>The New Zoo shall provide a subsidized or discounted transit program to provide free transit passes (or reimburse for transit passes) for employees when requested by the employee.</p>	<p>City of Elk Grove</p>	<p>Transit passes shall be provided by the Sacramento Zoological Society during operation of the New Zoo.</p>	
<p><b>Mitigation Measure 3.13-2b: Provide a Local Transit Stop:</b></p> <p>The New Zoo, in coordination with the City and SacRT, shall construct a bus stop within the immediate vicinity of the Project site, allowing the extension of SacRT bus services to the Project. The Project applicant shall coordinate with SacRT to ensure that the transit stop is located and designed in accordance with applicable design and safety standards. The applicant shall coordinate with SacRT on the implementation of the service extension.</p>	<p>City of Elk Grove and SacRT</p>	<p>Prior to opening of the New Zoo.</p>	

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p><b>Mitigation Measure 3.13-3: Prepare and Implement Traffic Management Plans for the Opening Month and Special Events</b></p> <p>The New Zoo shall be responsible for preparing a traffic management plan (TMP) and providing it to the City for approval by the Public Works Director (or their designee) and SacRT for review and coordination, as applicable, before opening day/weekend or other special events occurring at the New Zoo that may result in queuing spillover. The TMP shall include specific interventions for traffic conditions associated with the New Zoo opening and any other special events determined to warrant a TMP. The New Zoo shall be responsible for implementing the interventions to which the Public Works Director has agreed. All traffic controls shall be installed in accordance with the California Manual on Uniform Traffic Control Devices and applicable City regulations. At a minimum, the TMP shall include the following strategies:</p> <ul style="list-style-type: none"> <li>▶ Flaggers shall be provided to control traffic when necessary or requested by the City in compliance with Section 6-13.06 of the City’s Standard Construction Specifications 2022 or latest equivalent (City of Elk Grove 2022b: 52).</li> <li>▶ Changeable Message Signs shall display one or more alternating messages along likely patron access routes to broadcast up-to-date information regarding desired routing. The signs shall be in place no less than 72 hours before the date of the event or 5 business days in advance of a detour and shall remain in place for the duration of the event in compliance with Section 12-3.02 of the City’s Standard Construction Specifications 2022 or latest equivalent (City of Elk Grove 2022b: 103).</li> <li>▶ Wayfinding strategies, including permanent and temporary signs, shall be implemented to provide directions on access to the New Zoo for pedestrians, bicyclists, and vehicles.</li> <li>▶ Emergency access shall be maintained at all times, and emergency apparatus routes during the opening month and special events shall be reviewed by the City’s emergency service department for approval.</li> </ul>	<p>City of Elk Grove</p>	<p>Prior to opening of the New Zoo.</p>	
<p><b>Mitigation Measure 3.13-4: Implement Mitigation Measure 3.13-3 - Prepare and Implement Traffic Management Plans for the Opening Month and Special Events.</b></p>	<p>City of Elk Grove</p>	<p>Prior to opening of the New Zoo.</p>	