

**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
<b>AESTHETICS</b>					
<p><b>AES-1:</b></p> <p>Prior to Final Design the Town shall update the tree inventory and prepare and implement a Tree Preservation and Protection Plan addressing tree protection for trees to remain and identifying replacement for trees to be removed to accommodate Jaguar Way Extension. The Town of Windsor shall ensure that trees to remain are adequately protected during construction activities and that trees to be removed are replaced in accordance with Town’s Tree Preservation and Protection Ordinance (Chapter 27.36.040 of the Town’s Code).</p> <p>To protect trees that will be preserved from injuries that may result from construction activities such as root, trunk or branch damage or harm during site preparation, grading and trenching, the Town shall prepare and implement a Tree Preservation Plan addressing preservation such as the following:</p> <ul style="list-style-type: none"> <li>• Establish a tree protection zone (TPZ) to be inspected and verified by a qualified arborist</li> <li>• Install tree protection fencing and signage around the TPZ prior to construction</li> <li>• Restrict demolition, soil grading, trenching, and parking of vehicles within the TPZ</li> </ul>	<p>Prepare and implement a Tree Protection and Preservation Plan</p> <p>On-site observation</p> <p>Incorporate into project design and print on construction documents.</p>	<p>The Town of Windsor</p> <p>Project Contractor</p> <p>Qualified Arborist</p>	<p>Prior to project construction</p> <p>Monitor during regularly scheduled inspections to verify that measures are in place</p>		

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<ul style="list-style-type: none"> <li>• Cover exposed soil under canopies and throughout the TPZ with mulch (excluding trees within the riparian corridor of Starr Creek)</li> <li>• Preclude ornamental landscape, filling, cutting or compaction of soils within the tree drip line</li> <li>• Preserve oak leaf litter below the drip line of protected trees</li> <li>• Monitoring soil moisture to ensure that soil remains moist to a depth of 18 inches</li> <li>• Conduct pruning by qualified personnel in accordance with current industry standards, and</li> <li>• Monitor all trenching and excavation activities inside the TPZ by a qualified arborist and as feasible preclude the use of heavy-equipment.</li> </ul> <p>In order to mitigate the removal of protected trees onsite, the Town shall prepare and implement a Tree Preservation and Protection Plan identifying protected trees and appropriate replacement planting pursuant to the Town of Windsor Tree Technical Manual. Tree Replacement requirements shall be reflective of the Town's replacement ratios for In-Kind Replacement. In the event that replacement plantings necessary to achieve the Town's standard is not able to be accommodated on the project site, then offsite replacement locations shall be identified through the Project's Tree Preservation and Protection Plan.</p>					

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<p><b>AES-2:</b></p> <p>Prior to Final design of Jaguar Way Extension the Town shall prepare and implement a landscaping plan to introduce street trees and vegetation along the new roadway and within and adjacent to retention areas and bioswales. The plant pallet selection shall utilize low water-use plants as identified by the Town of Windsor and shall preclude invasive species. Further, the plant pallet selection and location shall identify native and riparian species proximate to Starr Creek and limit the use of ornamental species to previously disturbed and developed areas along Jaguar Way Extension.</p>	<p>Prepare and implement a landscaping plan</p>	<p>Town of Windsor Qualified Landscape Specialist Qualified Biologist</p>	<p>Monitor periodically following project construction</p>		
<p><b>AES-3</b></p> <p>The temporary staging area located in Keiser Park shall be situated in a manner so as to minimize temporary visual impacts to Keiser Park. The staging area shall be maintained to keep equipment, materials and stockpiles away from highly visible areas and screened as appropriate with temporary construction fencing. The construction staging area shall be kept clear of debris, weeds and trash during all stages of construction and shall be fully removed and restored to pre-staging conditions following completion of Jaguar Way Extension improvements.</p>	<p>Incorporate into project design and print on construction documents (demolition, grading and building plans).</p>	<p>Town of Windsor Project Contractor</p>	<p>Monitor during construction to verify that measures are in place</p>		

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<p><b>AES-4</b></p> <p>Prior to final design, a street lighting plan shall be prepared and reviewed by the Town Engineer. To maintain an appropriate lighting environment, the project shall construct lighting fixtures in accordance with the Town’s light and glare standards as codified in the Town of Windsor Zoning Ordinance Section 27.20.030.D. Standards specified by this section include, but are not limited to, lamp characteristics; glare control; the maximum wattage allowed; fixture height; and minimum and average illumination. New lighting introduced within and adjacent to the Starr Creek corridor shall be downcast, screened and precluded from spilling over beyond the roadway right of way.</p>	<p>Incorporate into project design and print on construction documents</p>	<p>Town of Windsor</p>	<p>Prior to project construction</p> <p>Monitor during regularly scheduled inspections to verify that measures are in place</p>		
<b>AIR QUALITY</b>					
<p><b>AQ-1:</b></p> <p>Latest BAAQMD Best Management Practices (BMPs) to control for fugitive dust and exhaust during all construction activities shall be incorporated into all demolition and construction plans to require implementation of the following:</p> <p>1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and</p>	<p>Incorporate into project design and print on construction documents</p> <p>On-site observation</p>	<p>Town of Windsor Project Contractor/ Construction Manager</p>	<p>Once during plan review</p> <p>Monitor during regularly scheduled inspections to verify that measures are in place</p>		

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<p>unpaved access roads) shall be watered two times per day.</p> <p>2. All haul trucks transporting soil, sand, or other loose material shall be covered.</p> <p>3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.</p> <p>4. All vehicle speeds on unpaved roads shall be limited to 15 mph.</p> <p>5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.</p> <p>6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.</p> <p>7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified</p>					

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<p>mechanic and determined to be running in proper working condition prior to operation.</p> <p>8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.</p> <p>9. All exposed surfaces shall be watered at a frequency adequate to maintain minimum soil moisture of 12 percent. Moisture content can be verified by lab sample or moisture probe.</p> <p><b>AQ-2:</b> Implement a plan demonstrating that the off-road equipment used onsite to construct the project would achieve a fleet-wide average 75-percent reduction in diesel particulate matter exhaust emissions or greater. One feasible plan to achieve this reduction would include the following:</p> <p>1. All diesel-powered off-road equipment, larger than 25 horsepower, operating on the site for more than two days continuously shall meet U.S. EPA Tier 4 particulate matter emissions standards. Alternatively, the following types of equipment would also meet this requirement:</p>	<p>Incorporate into project design and print on construction documents</p> <p>On-site observation</p>	<p>Town of Windsor Project Contractor Construction Manager</p>	<p>Once during plan review</p> <p>Monitor during regularly scheduled inspections to verify that measures are in place</p>		

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<p>Tier 3 engines that include CARB-certified Level 3 Diesel Particulate Filters (or equivalent), or the use of equipment that is electrically powered or uses non-diesel fuels.</p> <p>2. Temporary line power shall be available to minimize use of portable diesel-powered equipment.</p> <p>3. The simultaneous occurrence of excavation, grading, and ground-disturbing construction activities on the same area at any one time shall be limited. Activities shall be phased to reduce the amount of disturbed surfaces at any one time.</p> <p>4. Minimize the idling time of diesel powered construction equipment to two minutes.</p>					
<b>BIOLOGICAL RESOURCES</b>					
<p><b>BIO-1:</b></p> <p>To avoid impacts to nesting birds protected under the Migratory Bird Treaty Act, construction activities including, site preparation, demolition, and/or removal of trees should occur outside of the bird-nesting season between September 1<sup>st</sup> and January 31<sup>st</sup>. If construction activities must occur between February 1<sup>st</sup> and August 31<sup>st</sup> (during the bird nesting season), then a pre-construction bird nesting survey, <u>including for burrowing owls,</u></p>	<p>Conduct a pre-construction nesting bird survey by a qualified biologist if construction would occur during the bird nesting season</p>	<p>Town of Windsor Project Contractor Construction Manager Qualified biologist <u>CDFW (if burrowing owls are detected)</u></p>	<p>Prior to construction Periodically monitor during construction if nests are found</p>		

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<p>shall be conducted within seven (7) and up to 15 days prior to start of work. <u>A final survey within 24 hours prior to ground disturbance shall be conducted.</u> The bird nesting survey will shall include an examination of buildings/structures and trees onsite and within 200 feet <u>and expanded to 500 feet for raptors (hawks and burrowing owls)</u> of the project site (i.e. within a zone of influence of nesting birds), not just trees slated for removal. The zone of influence includes area outside the project limits where birds could be distributed by construction activity and related noise and vibration.</p> <p>If nesting birds are identified, then the qualified biologist with extensive experience working with nesting birds near construction sites shall establish a temporary protective nest buffer around the nest(s), <u>conduct a survey to establish behavioral baseline of birds using each nest, and conduct monitoring to ensure it is not disturbed.</u> The nest buffer will be staked or fenced to establish a construction exclusion perimeter <u>and shall be adjusted by a qualified biologist as needed to avoid disturbance.</u> The buffer shall be of sufficient size to protect the nesting site from construction-related disturbance. Typically, adequate nesting buffers are 50 feet from the nest site or nest tree dripline for small birds and up to 300 feet for sensitive raptors. Upon completion of nesting</p>	<p>The Town of Windsor shall be provided with the resume of the qualified biologist demonstrating nesting bird survey and detection experience</p> <p><u>The qualified biologist shall have minimum of 2 years experience implementing the CDFW 2012 survey methodology resulting in detections</u></p> <p>If necessary, establish a protection buffer zone</p> <p><u>Surveys for burrowing owl shall follow the</u></p>				



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<p>surveys, if nesting birds are identified a qualified ornithologist/biologist shall prescribe adequate nesting buffers to protect the nesting birds from harm while the project is being constructed. <u>If continuous monitoring is not feasible, conservative no-disturbance buffer(s) should be established, with the buffer distance based on the tolerance level of the nesting species.</u></p> <p>No construction or earth-moving activity shall occur within any established nest protection buffer prior to September 1<sup>st</sup> unless it is determined by a qualified ornithologist/biologist who is monitoring nesting behavior that the young have left the nest and have attained sufficient flight skills to avoid construction zones, or that the nesting cycle is otherwise completed. At the end of the nesting cycle, and fledging from the nest by its occupants, as determined by a qualified biologist, temporary nesting buffers may be removed, and construction may commence in established nesting buffers without further regard for the nest site.</p> <p>The biologist/ornithologist conducting the surveys shall provide the Town of Windsor with a report detailing the results of the survey and any recommendations required for establishment of protective buffers, if tree removal or demolition activities occur between February 1<sup>st</sup> and August 31<sup>st</sup>.</p>	<p><u>CDFW 2012 Staff Report on Burrowing Owl Mitigation survey methodology</u></p> <p><u>Time lapses between survey and project activities shall trigger subsequent surveys including but not limited to a final survey within 24 hours of construction</u></p> <p><u>Detected burrowing owls shall be avoided per the CDFW 2012 protocol, unless otherwise approved in writing by CDFW, as well as any eviction plan</u></p>				

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Jaguar Way Extension Project**

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<p><b>BIO-2:</b></p> <p>In order to avoid impacts to the Pallid bat, and other species-status bat species, a qualified biologist shall conduct pre-construction surveys of trees and buildings/structures onsite and within a 200-foot radius (or as otherwise determined by the biologist) 15 days prior to commencing construction work including tree removal, demolition, and/or grading activities. The survey for bats shall occur regardless of the time of year (since there is no defined bat roosting season as there is with nesting birds). All bat surveys shall be conducted by a biologist with experience surveying for bats. If no special-status bats are found during the surveys, then there would be no further regard for special-status bat species.</p> <p>If special-status bat species are found roosting on the project site or in the vicinity, the biologist shall determine if there are young bats present (i.e., the biologist shall determine if there are maternal roosts). If young are found roosting in any tree or building/structure that will be removed or demolished, construction shall be postponed until the young have reached independence. A non-disturbance buffer with orange construction fencing shall be established around the maternity site. The size</p>	<p>Conduct a pre-construction survey by a qualified biologist</p> <p>Provide the Town of Windsor with the resume of the qualified biologist demonstrating roosting bat survey and detection experience</p> <p><u>Resumes of the qualified biologist shall reflect at least 2 years of experience conducting bat surveys that resulted in detections for</u></p>	<p>Town of Windsor Project Contractor/ Construction Manager Qualified Biologist</p>	<p>Prior to construction</p> <p>Provide the pre-construction survey to the Town</p> <p>Periodically monitor during construction if special status bat species are found</p>		

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Jaguar Way Extension Project**

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<p>of the buffer zone shall be determined by a qualified bat biologist at the time of the surveys.</p> <p>If adults are found roosting in a tree or building/structure on the project site or in the vicinity, but no maternal roosts are found, then the following measures shall be undertaken:</p> <ul style="list-style-type: none"> <li>• Tree trimming and/or removal shall only be conducted during seasonal periods of bat activity: between August 31 and October 15, when bats would be able to fly and feed independently, and between March 1 and April 15 to avoid hibernating bats, and prior to the formation of maternity colonies.</li> <li>• Any trees that will be removed and have been identified by a qualified bat biologist as having potentially suitable bat roost habitat, should be removed using a two-day phased removal method as follows: <ul style="list-style-type: none"> <li>▪ On day one, in the afternoon, limbs and branches shall be removed using chainsaws only. Limbs with cavities, crevices, and deep bark fissures should be avoided.</li> <li>▪ On day two, the rest of the tree shall be removed under the direct supervision of a qualified bat biologist.</li> </ul> </li> <li>• If tree removal must occur outside of the seasonal periods of bat activity (see above),</li> </ul>	<p><u>the relevant species including the project name, dates, and person who can verify the experience, and the types of equipment used to conduct surveys. Preferably the qualified biologist would also possess a state-issued Scientific Collecting Permit for the relevant species.</u></p> <p>On-site observation</p> <p>If necessary, establish a protection buffer zone</p>				

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Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
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<p>then a qualified bat biologist (with at least two years of direct bat surveying experience) shall conduct a pre-construction survey within 14 days of starting construction work. If the qualified biologist finds evidence of bat presence during the surveys, then a Bat Removal and Exclusion Plan shall be developed in conjunction with the CDFW.</p> <p>The biologist conducting the surveys for the Project shall provide the Town of Windsor with <u>the survey methodology prior to initiating pre-construction bat surveys</u> and a report detailing the results of the survey and any recommendations, as warranted, required for establishment of protective buffers for bat roosts.</p> <p><b>BIO-3:</b></p> <p>To the greatest extent feasible jurisdictional features shall be avoided through design modifications that preclude fill or other modifications to seasonal wetlands. Given the narrow roadway alignment, a minimum of approximately 0.0456 acres and up to 0.075 acres of seasonal wetlands may be directly filled in order to accommodate the multi-modal roadway and associated improvements. Impacts to jurisdictional wetlands that cannot be avoided shall be offset as follows:</p>	<p>Purchase wetland mitigation credits</p> <p>Secure 401 and 404 permits</p>	<p>Town of Windsor Qualified Biologist</p> <p>Outside Agencies (U.S. Army Corps of Engineers; and Regional Water Quality Control Board)</p>	<p>Prior to construction</p> <p>Ongoing monitoring during construction</p> <p>Following project construction ongoing</p>		

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<ul style="list-style-type: none"> <li>• Creation of new wetlands at a suitable location that remain inundated or saturated for sufficient duration to support hydrophytic vegetation and exhibit plant and invertebrate species richness comparable to existing wetlands.</li> <li>• Replacement a minimum ration of 1:1, one acre of created wetland for each acre or fraction thereof removed.</li> <li>• Creation of in perpetuity preservation for newly created wetlands through a deed restriction of conservation easement.</li> <li>• Establishment of a five-year monitoring program to monitor the progress of the created wetland toward meeting established goals. At the end of each monitoring year, an annual report shall be submitted to the USACE, RWQCB, and other resource agencies that permitted the project. The report shall document hydrological and vegetative conditions of the created wetland and recommend remedial measure to correct any performance deficiencies.</li> <li>• In lieu of creating compensation wetlands, as approved by the USACE and RWQCB, the Town may purchase mitigation credits from</li> </ul>			monitoring of any created wetlands for at least five years		

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Jaguar Way Extension Project**

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<p>an approved wetland mitigation bank at a 1:1 ratio or as otherwise required by the regulatory agencies at the time permits are issued.</p> <p>Proof of a 404 permit from the USACE and a 401 permit from the RWQCB shall be secured by the Town of Windsor prior to initiating construction activities.</p> <p>Wetlands onsite and in the project vicinity to be preserved shall be protected during construction through Best Management Practices including but not limited to the following:</p> <ul style="list-style-type: none"> <li>• Installing orange construction fencing, silt fencing, hay or gravel wattles prior to initiating work, maintaining fencing/wattles throughout the construction duration, and removing fencing/wattles upon completion.</li> <li>• Presence of a biological monitor onsite to monitor the integrity of preserved wetland and other waters and to provide recommendations to ensure that construction activities do not intrude into protected areas.</li> </ul> <p><b>BIO-4:</b></p> <p>The Town of Windsor shall secure a Streambed Alteration Agreement (SBAA) from the CDFW</p>					

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Jaguar Way Extension Project**

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<p>and implement all measures identified therein including but not limited to the following:</p> <ul style="list-style-type: none"> <li>To avoid fuels, lubricants, soils and other pollutants from entering Starr Creek, wildlife friendly hay wattles and/or silt fencing shall be installed. The use of mulch or any other substitute that may enter into the creek shall be prohibited.</li> <li>Staging, operation and maintenance of heavy-duty construction equipment shall be located away from Starr Creek and well outside of the riparian corridor.</li> <li><u>Conduct a habitat suitability assessment and pre-construction survey, within 24 hours prior to construction, including all areas where western pond turtles may occur. If pond turtles or their nests are found, prepare a relocation plan, submit it to CDFW for acceptance, and implement. Construction shall avoid all pond turtles and their nests.</u></li> <li>Temporary wildlife exclusion fencing shall be installed around active work areas within the Starr Creek corridor to prevent wildlife from entering work areas. As soon as construction activities within the Starr Creek</li> </ul>	<p>Install protective measures</p> <p>Onsite observation</p> <p>Secure and implement a SBAA from the CDFW</p> <p><u>Resumes of the qualified biologist shall reflect at least 2 years of experience conducting western pond turtles with detections</u></p>	<p>Project Contractor/ Construction Manager Qualified Biologist Outside Agency (CDFW)</p>	<p>Monitor during regularly scheduled inspections to verify that measures are in place</p> <p>Following project construction</p>		

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Jaguar Way Extension Project**

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<p>corridor are completed all wildlife exclusion fencing shall be removed.</p> <ul style="list-style-type: none"> <li>To avoid impacts to the riparian corridor of Starr Creek, disturbed areas shall be revegetated with native riparian plant species. Replacement of riparian trees to be removed (oaks) shall be planted near the creek as feasible and/or adjacent to the existing limits of the riparian corridor to contribute to the existing riparian canopy. Riparian plantings shall be maintained for a minimum of 5-years to ensure that the canopy is enhanced and the understory restored.</li> <li>Non-native and invasive ornamental landscaping shall be precluded from use proximate to Starr Creek.</li> <li>To avoid debris from entering Starr Creek, the final roadway design shall provide for enclosed and accessible trash receptacles (located outside of the riparian corridor).</li> <li>New lighting introduced by the project shall be downcast and precluded from spilling over to the riparian corridor.</li> </ul> <p>Any further requirements set forth in the Streambed Alteration Agreement (SBAA) from the CDFW, such as specific erosion control</p>					



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Jaguar Way Extension Project**

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<p>measures near the creek <u>or tree replacement ratios within the riparian corridor</u>, shall also be implemented.</p> <p><b>BIO-5:</b> Implement AES-1 above.</p>					
<b>CULTURAL RESOURCES</b>					
<p><b>CUL-1:</b> To ensure appropriate treatment of archeological resources in the event of inadvertent discovery the following procedures shall be complied with:</p> <ul style="list-style-type: none"> <li>A professional archaeologist shall conduct a preconstruction meeting with the site superintendent and contractor(s), equipment operator(s) and others prior to commencement of ground-disturbing activities to familiarize the team with the types of archaeological material that could be encountered and procedures to follow in the event that archaeological deposits are uncovered.</li> <li>If archeological deposits are encountered during ground-disturbing activities, all work within 25 feet of the discovery shall be halted until a qualified archaeologist, who meets the Secretary of the Interior's Standards, is retained to inspect the material and provide further recommendations for appropriate</li> </ul>	<p>Incorporate into project design and print on construction documents</p> <p>Conduct a preconstruction meeting with key construction personal</p> <p>On-site observation</p>	<p>Town of Windsor Project Contractor/ Construction Manager</p> <p>Qualified Archaeologist</p>	<p>Prior to ground disturbing activities</p> <p>During ground disturbance activities</p>		

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<p>treatment of the resource including, but not limited to, data recovery excavation, artifact curation, report preparation, and information dissemination to the public. Where such resources are Native American, Tribal representatives shall be notified and appropriate treatment shall be determined in consultation with Native American tribe(s).</p> <ul style="list-style-type: none"> <li>• Upon completion of an assessment and/or evaluation of a potential artifact, the archaeologist shall prepare a report documenting the methods and results of the archaeological assessment/evaluation and provide recommendations for the treatment of the find. The report shall be submitted to the Town of Windsor, the Northwest Information Center, and Native American Tribe(s), as appropriate.</li> </ul> <p><b>CUL-2:</b> Consistent with California Health and Safety Code Section 7050.5 and California Public Resources Code Section 5097.98, if human remains are encountered, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin. The remains shall be left in place and free from disturbance until a final decision as to the</p>	<p>Incorporate into project design and print on construction documents (grading plans). On-site observation</p>	<p>Town of Windsor Project Contractor Construction Manager Qualified Archeologist</p>	<p>Prior to ground disturbing activities During ground disturbance activities</p>		

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Jaguar Way Extension Project**

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treatment and disposition has been made. If the Coroner determines the remains to be Native American, the Native American Heritage Commission shall be contacted within 24 hours. The Native American Heritage Commission must then immediately identify the "most likely descendant(s)" of receiving notification of the discovery. The most likely descendant(s) shall then make recommendations within 48 hours and engage in consultations concerning the treatment of the remains.		Native American Heritage Commission  Most Likely Descendent(s)  County Coroner			
<b>GEOLOGY AND SOILS</b>					
<b>GEO-1:</b>  A project-specific design level geotechnical investigation for the Jaguar Way Extension project shall be prepared and recommendations therein implemented. The investigation shall include an analysis of expected ground motions at the site from known faults, liquefaction areas, and expansive soils and identify potentially hazardous geological conditions. The expected ground motions shall be used to develop soil preparation (i.e. need for imported fill, compaction requirements, etc.) and improvements including utility connections, bridge design, and paved surfaces (roadways, sidewalks, driveways, etc.), and shall meet or	Incorporate into project design and print on construction documents	Town of Windsor Town Engineer Project Contractor  Construction Manager  Geotechnical Consultant	Verification of incorporation into project design and construction documents prior to grading  Monitor during construction to verify that measures are in place		

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<p>exceed geotechnical standard practices and the California Building Code. The investigation shall be reviewed and accepted by the Town engineer and all recommendations shall be included in the final project design at the discretion of the Town engineer. Recommendations that are applicable to earthwork and site preparation shall be consistent with the most recent version of the California building Code.</p> <p><b>GEO-2:</b></p> <p>If paleontological resources are identified during ground-disturbing construction activities, all work within 50 feet of the discovery shall be halted and a qualified paleontologist contacted to evaluate the finds and make recommendations. If the qualified paleontologist determines that the materials are not significant, no further protection is necessary. If such paleontological resources are found to be significant, they should be avoided by project activities. If avoidance is not feasible, adverse effects to such paleontological resources should be mitigated consistent with a mitigation monitoring program prepared by a qualified paleontologist</p> <p>Typically, fossils can be safely salvaged quickly by a single paleontologist and not disrupt construction activity. In some cases, larger fossils (such as complete skeletons or large</p>	<p>Incorporate into project design and print on construction documents (grading plans)</p> <p>On-site observation</p>	<p>Town of Windsor Project Contractor/ Construction Manager</p> <p>Qualified Paleontologist</p>	<p>Periodically during ground disturbance activities</p>		

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Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
<p>mammal fossils) require more extensive excavation and longer salvage periods. In this case the paleontologist should have the authority to temporarily direct, divert or halt construction activity to ensure that the fossil(s) can be removed in a safe and timely manner. Work may continue outside of a buffer zone around the fossil, usually 50-100 feet (specific distance may be determined by the project paleontologist).</p> <p>Once salvaged, significant fossils should be identified to the lowest possible taxonomic level, prepared to a curation ready condition and curated in a scientific institution with a permanent paleontological collection (such as the University of California Museum of Paleontology), along with all pertinent field notes, photos, data, and maps. Fossils of undetermined significance at the time of collection may also warrant curation at the discretion of the project paleontologist.</p> <p>Upon completion of ground disturbing activity (and curation of fossils if necessary) the qualified paleontologist shall prepare a final mitigation and monitoring report outlining the results of the mitigation and monitoring program. The report shall include discussion of the location, duration and methods of the monitoring, stratigraphic sections, any</p>					

**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
recovered fossils, and the scientific significance of those fossils, and where fossils were curated.					
<b>HYDROLOGY AND WATER QUALITY</b>					
<p><b>HYDRO-1:</b></p> <p>In accordance with the National Pollution Discharge Elimination System regulation, the Town shall prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) prior to construction. The SWPPP shall address erosion and sediment controls, proper storage of fuels, temporary erosion control including fiber rolls, staked straw bales, geofabric, and sandbag, and identification for use and cleanup of hazardous materials. Sediment shall be retained onsite by a system of sediment basins, traps, or other appropriate measures. A Notice of Intent, fees, and other required documentation shall be filed with the Regional Water Quality Control Board. During construction a monitoring report shall be conducted weekly during dry conditions and three times a day during storms that produce more than 1/2" of precipitation.</p> <p><b>HYDRO-2</b></p> <p>Prior to approval of public improvement plans, the Town Engineer shall review and authorize the Jaguar Way Extension Project Storm Water Management Plan including adequacy all LID</p>	<p>Incorporate into project design and print on construction documents</p> <p>On-site observation</p> <p>Prepare Construction Monitoring Report that documents periodic site inspections during grading to ensure measures are in place</p>	<p>Town of Windsor Town Engineer Project Contractor/ Construction Manager</p>	<p>Prior to construction</p> <p>Periodically during project construction</p>		
	<p>Incorporate into project design and print on</p>	<p>Town of Windsor Town Engineer</p>	<p>Periodic site inspections during grading to ensure</p>		

**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
features and onsite bio-retention features to ensure that their location, sizing and function adequately accommodates stormwater runoff, and provides pre-treatment and discharge in a manner consistent with local, regional and state requirements.	construction documents On-Site Observation	Project Contractor/ Construction Manager	measures are in place		
<b>NOISE</b>					
<p><b>NOI-1.</b></p> <p>The Town of Windsor shall implement the following best management practices during all stages of construction for the Jaguar Way Extension Project as feasible:</p> <ul style="list-style-type: none"> <li>• Construction activities for all phases of construction, including servicing of construction equipment shall only be permitted during the hours of 7:00 a.m. and 7:00 p.m. Monday through Friday and between 8:00 a.m. and 7:00 p.m. on Saturdays. No construction shall be permitted on Sundays unless otherwise authorized by the Town Building Official.</li> <li>• Limit noise-producing signals, including horns, whistles, alarms, and bells to safety warning purposes only.</li> <li>• Equip all internal combustion engine-driven equipment with intake and exhaust mufflers that are in good condition and appropriate for</li> </ul>	<p>Incorporate measures into project design and print on construction documents</p> <p>Assign a disturbance coordinator to respond to complaints and address noise concerns as they arise</p> <p>On-site observation</p>	<p>Town of Windsor Project Contractor/ Construction Manager Noise Disturbance Coordinator</p>	<p>Periodically monitor during construction to verify that measures are in place</p>		

**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
<p>the equipment (e.g., improved mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures and acoustically-attenuating shields or shrouds, wherever feasible).</p> <ul style="list-style-type: none"> <li>• Unnecessary idling of internal combustion engines shall be strictly prohibited.</li> <li>• Locate stationary noise-generating equipment such as air compressors or portable power generators as far as possible from sensitive receptors as feasible. If stationary equipment must be located near receptors, adequate muffling (with enclosures where feasible and appropriate) shall be used to reduce noise levels at the adjacent sensitive receptors. Any enclosure, openings, or venting shall face away from sensitive receptors.</li> <li>• Utilize "quiet" air compressors and other stationary noise sources where technology exists.</li> <li>• Construction staging areas shall be established at location that will create the greatest distance between the construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction.</li> </ul>					



**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
<ul style="list-style-type: none"> <li>• Control noise from construction workers' radios to a point where they are not audible at existing residences bordering the project site.</li> <li>• Pre-drill foundation pile holes to minimize the number of impacts required to seat the pile.</li> <li>• Consider the use of "acoustical blankets" during pile driving activities.</li> <li>• The contractor shall prepare a detailed construction plan identifying the schedule for major noise-generating construction activities. The construction plan shall identify a procedure for coordination with adjacent land uses including residents abutting the project site, Windsor High School and Keiser Park, so that construction activities can be scheduled to minimize noise disturbance.</li> <li>• Designate a "disturbance coordinator" who would be responsible for responding to any complaints about construction noise. The disturbance coordinator will determine the cause of the noise complaint (e.g., bad muffler, etc.) and will require that reasonable measures be implemented to correct the problem. Conspicuously post a telephone number for the disturbance coordinator at the construction site and include in it the notice</li> </ul>					

**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
<p>sent to neighbors regarding the construction schedule.</p> <p><b>NOI-2.</b></p> <p>The Town of Windsor shall implement the following to protect existing structures and occupants from exposure to excessive groundborne vibration within 20 feet of roadway construction.</p> <ol style="list-style-type: none"> <li>1. Place operating equipment on the construction site as far as possible from vibration sensitive receptors.</li> <li>2. Use smaller equipment to reduce vibration levels below the limits (0.3 inches/second PPV).</li> <li>3. Avoid using vibratory rollers and tampers within 10 feet of sensitive structures.</li> <li>4. Select demolition methods not involving impact tools.</li> <li>5. Modify/design or identify alternative construction methods to reduce vibration levels below the limits.</li> <li>6. Avoid dropping heavy objects or materials.</li> <li>7. A list of all heavy construction equipment to be used for this project known to produce high vibration levels (tracked vehicles,</li> </ol>	<p>Incorporate into project design and print on construction documents</p> <p>Implement Construction Vibration-Monitoring Plan developed by a licensed Professional Structural Engineer</p> <p>Assign an excessive vibration contact</p>	<p>Town of Windsor</p> <p>Project Contractor/ Construction Manager</p> <p>Professional Structural Engineer</p>	<p>Prior to construction</p> <p>Periodically during project construction</p> <p>Upon Project completion</p>		

**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
<p>vibratory compaction, jackhammers, hoe rams, etc.) shall be submitted to the Town by the contractor. This list shall be used to identify equipment and activities that would potentially generate substantial vibration and to define the level of effort required for continuous vibration monitoring.</p> <p>8. A construction vibration-monitoring plan shall be implemented to document structural conditions at all structures located within 20 feet of non-pile driving activities and any structures located within 100 feet of pile driving prior to, during, and after vibration generating construction activities. All plan tasks shall be undertaken under the direction of a licensed Professional Structural Engineer in the State of California and be in accordance with industry accepted standard methods. The construction vibration monitoring plan should be implemented to include the following tasks:</p> <p>a) Performance of a photo survey, elevation survey, and crack monitoring survey for all structures located within 20 feet of non-pile driving activities and any structures located within 100 feet of pile driving. These surveys shall be performed prior to, in regular intervals during, and after completion of</p>					

**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
<p>vibration generating construction activities and shall include internal and external crack monitoring in the structure, settlement, and distress and shall document the condition of the foundation, walls and other structural elements in the interior and exterior of said structure.</p> <p>b) Conduct a post-survey on the structure where either monitoring has indicated high levels or complaints of damage. Make appropriate repairs in accordance with the Secretary of the Interior's Standards where damage has occurred as a result of construction activities.</p> <p>c) The results of the surveys shall be summarized and submitted in a report shortly after substantial completion of each phase identified in the project schedule to have potential vibration impacts. The report will include a description of measurement methods, equipment used, calibration certificates, and graphics as required to clearly identify any vibration-monitoring locations.</p> <p>d) Designate a person responsible for registering and investigating claims of excessive vibration. The contact information</p>					

**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
of such person shall be clearly posted on the construction site.					
<b>TRANSPORTATION</b>					
<p><b>TRANSP-1</b></p> <p>The final design of Jaguar Way Extension shall ensure that sight lines are preserved by locating new trees, lighting, landscaping and signage in a manner that does not block sight lines and includes an ongoing maintenance plan for street trees and vegetation so that new growth does not obstruct visibility or conflict with pedestrian, bicycle and vehicles travel.</p>	Incorporate into project design and print on construction documents	Town of Windsor Project Contractor/ Construction Manager Qualified Landscape Specialist	Verification of prior to start of work Verification upon project completion Ongoing maintenance for the life of the project		
<p><b>TRANSP-2</b></p> <p>The contractor shall prepare and implement a construction work schedule including material delivery, construction start and end times, road closure and lane closure information and shall be coordinated with Windsor High School to avoid conflicts with school start and release times and school related events. The construction schedule shall also include coordination with other nearby construction activities to minimize conflicts on roadways.</p>	Incorporate into project design and print on construction documents	Town of Windsor Project Contractor/ Construction Manager Windsor High School	Verification of incorporation into design prior to start date of construction Ongoing throughout construction		
<b>TRIBAL CULTURAL RESOURCES</b>					

**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
<p><b>TCR-1</b></p> <p>Prior to the start of construction activities, the Town of Windsor shall coordinate with the Federated Indians of Graton Rancheria (FIGR) to establish a schedule and process to carry out spot monitoring to be performed by a FIGR Tribal Representative during project-related earth-disturbing activities. A schedule for onsite spot monitoring shall be established in close coordination with FIGR, the construction contractor, and the Town of Windsor. The Tribal Representative carrying out spot monitoring shall be permitted to access the construction site, observe activities, and shall be granted authority to issue a stop work order in the event that a tribal cultural resource or potential tribal cultural resource is identified. If tribal cultural materials are encountered during project activities, all work within 25 feet of the discovery, or other appropriate buffer, shall be halted and construction work redirected until materials are assessed and recommendations for treatment are issued. If the tribal cultural materials are archaeological in nature, then a qualified professional archaeologist shall be retained to inspect the discovery and provide recommendations as needed.</p>	<p>Incorporate into project design and print on construction documents</p> <p>On-site observation</p> <p>Implement a 25-foot buffer, as applicable</p> <p><u>Lytton Tribal Representative shall be notified of any find</u></p>	<p>Town of Windsor Project Applicant/ Contractor</p> <p>Qualified Professional Archeologist</p> <p>FIGR</p> <p>FIGR Tribal Representative</p>	<p>Prior to commencement of ground disturbing activities</p> <p>During ground disturbance activities</p>		
<p><b>TCR-2</b></p>					

**Draft Final Mitigation Monitoring and Reporting Program  
Jaguar Way Extension Project**

Mitigation Measure	Implementing Procedure	Monitoring Responsibility	Monitoring / Schedule	Compliance Verification	
				Initial/Date	Comments
In the event that prehistoric, historic, or any other cultural or archaeological materials are encountered, the Tribal Heritage Preservation Officer (THPO) of the Federated Indians of Graton Rancheria, <u>Lytton Rancheria</u> , Dry Creek Rancheria Band of Pomo Indians, Middletown Rancheria, or any other tribe that has requested notification, shall be notified of the find.	Incorporate into project design and print on construction documents  On-site observation	Town of Windsor  Project Contractor/  Construction Manager	Prior to commencement of ground disturbing activities  During ground disturbance activities		