

IMPLEMENTATION PLAN – GENERAL PLAN EIR MITIGATION MONITORING AND REPORTING PLAN

The purpose of the Mitigation Monitoring and Reporting Plan (MMRP) is to ensure the implementation of mitigation measures identified in the environmental impact report prepared for the General Plan and ECAS. The MMRP includes the following information:

- ◆ A list of mitigation measures;
- ◆ The party responsible for implementing the mitigation measures;
- ◆ The timing for implementation of the mitigation measure;
- ◆ The agency responsible for monitoring the implementation; and
- ◆ The monitoring action and frequency.

The EIR for the General Plan and ECAS evaluates all potentially significant environmental impacts that could result from the approval of the General Plan and ECAS, and identifies measures designed to mitigate or avoid the potentially significant impacts of the project. The City of Vacaville City Council adopted this MMRP in conjunction with the approval of the General Plan and ECAS on August 11, 2015. This section of the Implementation Plan lists all identified potentially significant or significant impacts of the project and, where applicable, the final mitigation measures adopted by the City Council to avoid, reduce or attempt to reduce those impacts to a less-than-significant level.

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Action Number	City Department(s)	Status
Air Quality		
AIR-1a - The City of Vacaville shall revise the Energy and Conservation Action Strategy (ECAS) to expand ECAS measure LU-4 to require that new pedestrian infrastructure incorporate amenities such as street trees to shade sidewalks, lighting, benches, signage, and pedestrian signalization at major transportation points to increase pedestrian convenience, comfort, and safety.	CD & PW	
AIR-1b - The City of Vacaville shall create a schedule for vehicle purchasing decisions when vehicles turn over to ensure that new passenger vehicles purchased by the City for use in the City fleet are alternative fuel vehicles.	PW	
AIR-1c - New development in the City of Vacaville shall encouraged, but not required, to implement the Tier 1 energy performance standards of the California Green Standards Code (CALGreen), which are currently voluntary. The Tier 1 energy performance standards specify that new residential buildings must have an energy budget no greater than 85 percent the current Building and Energy Efficiency Standards of Title 24 (i.e. 15 percent increase in energy efficiency) and non-residential buildings that include indoor lighting and mechanical systems (e.g. heating, ventilation, and air conditions units) must have an energy budget no greater than 90 percent (i.e. 10 percent increase in energy efficiency). The City may allow energy offsets, such as energy generated onsite through installation solar energy, toward this requirement to exceed Title 24.	CD	

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<i>Biological Resources</i>		
<p>BIO-1 - Preservation and restoration of habitat for species identified in Tables 4.4-2 and 4.4-3 of the Draft EIR shall occur in the same level or higher level conservation area as the direct impact occurs (i.e. impacts to habitat in Medium Value Conservation Areas will be mitigated in Medium to High Value Conservation Areas, but impacts to habitat in Low Value Conservation Areas shall be mitigated in either Low or Medium Value Conservation Areas). Compensation for indirect impacts will be assessed on the location/conservation value of the habitat that is indirectly impacted and not the location of project activity (i.e. if a project activity will indirectly impact a habitat for species in a Medium Value Conservation Area but the project is located in a Low Value Conservation Area, compensatory mitigation shall be based on the type of habitat that is being indirectly impacted (in this case Medium Value Conservation Area) rather than the lower value project area. All mitigation ratios are based on impacts as assessed by acreage.</p> <p>1. Medium Value Conservation Areas (see Subareas 2C, 2D, and 2N in Figure 4.4-3)</p> <p>a. Wetland Component Direct Impacts: Preserve vernal pool and swale habitats at a ratio of 2:1, and restore vernal pool and swale habitats at a ratio of 1:1 if restored habitats are in place and functional at the time of impact or at a 2:1 ratio if habitats are restored concurrent with the impact</p> <p>b. Wetland Component Indirect Impacts: Preserve vernal pool and swale habitats at a ratio of 1:1 for avoided wetlands within 250 feet of proposed development.</p> <p>c. Upland Component Direct Impacts: In Subarea 2C, preserve upland habitat at a ratio of 3:1. In the remaining subareas, preserve upland habitat at a ratio of 2:1.</p> <p>d. Upland Component Indirect Impacts: Preserve avoided upland habitat at a ratio of 1:1 within 250 feet of proposed development.</p>	<p>CD & PW</p>	

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<p>BIO -2 - All impacted seasonal wetlands shall be characterized according to the types below and mitigated by preservation of the same category of wetland according to the ratios in Mitigation Measure BIO-1. Seasonal wetland categories are as follows:</p> <p>“Pools: Greater than 1 inch of standing water for more than ten continuous days with short (less than three weeks) to long (more than three weeks) durations of standing water, clear to moderate turbidity, and exhibiting significant vegetation cover.</p> <p>“Playa Pools: Greater than 1 inch of standing water for more than ten continuous days with long (more than three weeks) to very long durations of standing water, moderate to high turbidity, and exhibiting sparse vegetation cover (typically found in association with Pescadero Series Soils; often referred to as playa-type pools).</p> <p>“Swales or Mesic Grassland: Shallow, standing water (generally less than 1 inch) present for fewer than ten continuous days.</p> <p>“Alkaline Flats and Meadows: Shallow, standing water (generally less than 1 inch) present for fewer than ten continuous days and exhibiting indicators of high alkalinity (salt deposits on soil surface, presence of salt-tolerant plants).</p> <p>Deviations in the required mitigation acreage by type or category may be permitted by the City and other applicable regulatory agencies. Under Mitigation Measure BIO-1, con-servation habitats shall be proportional to impacts to the species and their asso-ciations (e.g. impacts to pool-dependent species such as vernal pool fairy shrimp shall not be mitigated by preservation of more abundant swale or mesic grasslands that do not support the species).</p>	CD & PW	

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<p>BIO-3 - All direct impacts to extant stands of Contra Costa goldfields shall be mitigated by establishing new, self-reproducing populations of Contra Costa goldfields at a ratio of 4:1 (acres protected to acres impacted). This restoration requirement may be met by establishing new Contra Costa goldfield populations at a single-project mitigation site or by purchasing credits at an approved mitigation bank authorized to sell credits for this species in an amount equal to the 4:1 mitigation ratio. Guidelines for establishing Contra Costa goldfields and the release schedule for mitigation credits at the commercial mitigation banks will be specified in the bank-enabling agreements. Mitigation at single-project mitigation sites would be subject to the same conditions as the commercial mitigation banks. Establishment criteria shall also adhere to all the following conditions:</p> <ol style="list-style-type: none"> 1. Impacted habitat area for which mitigation is required shall be equal to the entire occupied pool/swale area, and shall not just be limited to the area with 2. Contra Costa goldfield populations and other species identified in Tables 4.4-2 and 4.4-3 of the Draft EIR (including vernal pool fairy shrimp, conservancy fairy shrimp, vernal pool tadpole shrimp, and mid-valley fairy shrimp) shall be established in constructed, restored, and enhanced wetlands in the known range of these species in Solano County. 3. Seed used to establish new populations of Contra Costa goldfields may be obtained from any Core Population Area, as defined in the Solano HCP or in areas identified in standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP. Seed collection shall not affect more than 10 percent of an individual preserved population. Seed and top soils shall be salvaged from occupied vernal pools and other wetlands in an impacted area prior to initiation of ground-disturbing activities. 	<p>CD & PW</p>	

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<p>4. Restoration may occur in existing preserved pools currently lacking Contra Costa goldfields or in restored pools and swales in other Core Areas as defined in the Solano HCP or in areas identified in standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP. New populations must be established in currently unoccupied habitat.</p> <p>5. Re-established populations will be considered self-reproducing when:</p> <p>a. Plants re-establish annually for a minimum of five years with no human intervention such as supplemental seeding, and habitat areas contain an occupied area and flower/plant density comparable to existing occupied habitat areas in similar pool types and Core Areas.</p>		
<p>If Contra Costa goldfields cannot be established at the mitigation site within five years according to the conditions above, the preserved wetland restoration acreage shall be increased by 50 percent. The applicant shall provide bonds or other acceptable financial assurances, subject to approval by the City and USFWS to ensure implementation of such measures.</p>		

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<p>BIO-4 - Mitigation shall be required for any impacts in the known or potential range of the California tiger salamander (see Figure 4.4-4). Mitigation shall include preservation, enhancement, and restoration/establishment of suitable upland habitat, and preservation and construction/creation of new breeding habitat consistent with the mitigation requirements specified in Mitigation Measure BIO-1, subject to the following additional requirements.</p> <p>1. Breeding Habitat Mitigation: Direct and indirect impacts to all suitable California tiger salamander breeding habitat in the known or potential range of the species (Figure 4.4-4) will be mitigated by preserving known breeding habitat at a 3:1 ratio and creating new breeding habitat at a ratio of 2:1 or 0.35 acres, whichever is greater.</p> <p>All preserved and created/established breeding habitat shall be contiguous to at least 350 acres of preserved upland habitat, and created breeding habitat shall be located within 2,100 feet of known breeding habitat.</p> <p>a. All new breeding habitat shall be located within 2,100 feet of a known breeding site and be situated in a contiguous reserve/preserve area of 350 acres or more of suitable habitats. This may include other parcels if the lands are protected by conservation easements and are managed consistent with the Solano HCP Reserve Criteria or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP. For some existing preserved areas/mitigation sites, this may require that management agreements and endowments be extended to these sites.</p> <p>b. New breeding habitat can consist of multiple sites within 1,300 feet of each other. All new created breeding habitats shall be 0.2 acres to 0.35 acres in size unless otherwise approved by the City, USFWS, and CDFW</p>	CD & PW	

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BIO-5 - 1. Vegetation. All native, woody vegetation greater than 1 inch in diameter shall be replaced by planting native woody vegetation to at the following minimum ratios and performance standards:

Vegetation Replacement Size (inches) ^a	Native Species (Except Oaks and Elderberry) ^b	Oak Species ^c
Priority Drainages		
<12	3:1	5:1
12-24	6:1	7:1
>24	10:1	12:1
Non-Priority Drainages		
<12	3:1	5:1
12-24	4:1	7:1
>24	6:1	12:1

^a Note: *Performance Criteria* – The number of native riparian established at the end of the five-year monitoring period shall be 80 percent of total required plantings. Established plant regeneration and volunteer plants.

^b Trees shall be measured at diameter at breast height (d.b.h.) trees shall be reported as the cumulative total of all trees measured at the midpoint of the main trunk (the ground branch).

^c Elderberry replacement ratios and other associated mitigation prescribed in Mitigation Measure BIO-9. Tree and shrub plantings under this mitigation measure may be used to fulfill the associated native woody riparian vegetation requirements Mitigation Measure BIO-9.

^d Because of slow growth rates, oak species require higher ratios acorns are used instead of seedlings (at least one year old), be doubled.

^e The five-year monitoring period for documenting success shall be extended if the mitigation is not performing adequately. determination of success monitoring shall require at least significant intervention (e.g. additional plantings or irrigation) need to be planted at higher ratios, depending on site conditions account for mortality of planted material.

The goal of the riparian vegetation re-placement is to contribute to the establishment of a multi-story riparian community with a variety of native riparian species appropriate for the mitigation site. Plantings are not required to

2. Area. Riparian mitigation planting shall also achieve the following area criteria based on whether the mitigation is achieved through enhancement (e.g. supplemental planting of existing riparian habitats) or through establishment of woody riparian habitats (e.g. existing or created channel lacking native woody riparian vegetation):

Area Ratios	Priority Drainages		Non-Prio
	Enhancement	Created/ Restored	Enhancement
	4:1	2:1	3:1

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<p>3. Hydrological and Biological Con-nectivity: Mitigation for permanent impacts to third and higher order streams and second order streams with riparian vegetation shall maintain the hydrologic and biological connectivity between downstream and upstream areas. Facilities such as bridges, culverts, outfalls, and grade control structures shall not create cumulative gaps in the channel or riparian corridor greater than 300 feet. Bypass or re-routed channels shall be constructed where necessary to replace impacted habitats and to limit gaps between existing riparian habitats.</p> <p>Note: The intent of requiring mitigation for removal of nonnative trees and shrubs is to protect riparian habtat. It is not intended to require miti-gation for the removal of nonnative trees or shrubs as a part of riparian restoration or enhancement projects.</p> <p>The above measure applies to waterways subject to State regulation under <u>Section 1602 of the Fish and Game Code and Porter-Cologne Water Quality</u></p>		
<p>BIO-6 - Mitigation for direct impacts to pond or freshwater marsh habitat not hydrologically connected to streams shall be provided at a 2:1 ratio. This mitigation may be achieved by creating/restoring on-site open space areas with a minimum 100-foot-wide buffer, establishing an endowment or other suitable funding source for long-term management of the mitigation habitat, or purchasing credits at an approved mitigation bank.</p>	CD & PW	
<p>BIO-7 - Mitigation for direct impacts to seasonal wetlands in the Inner Coast Range shall be provided at a 2:1 ratio.</p>	CD & PW	
<p>BIO-8 - Compensatory mitigation for unavoidable impacts to suitable breeding and non-breeding aquatic habitat (e.g., riparian, stream, pond, and freshwater marsh habitats) outside of the California Red-legged Frog Conservation Area shall be provided through the construction and/or restoration of similar habitats at a prescribed ratio (acres restored to acres impacted) consistent with Mitigation Measure BIO-5, and provide an endowment fund or other approved funding source to implement manage-ment plans for preserved lands in perpetuity consistent with the requirements in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.</p>	CD & PW	

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<p>BIO-9 - Where removal of elderberry shrubs or their stems measuring 1 inch in diameter or greater is unavoidable, these impacts shall be mitigated. Removal of elderberry shrubs or stems 1 inch in diameter or greater and associated riparian vegetation shall not create gaps in a riparian corridor greater than 300 feet. Mitigation will include salvaging and replanting affected elderberry shrubs and planting additional elderberry shrubs and associated native riparian plants according to the following criteria:</p> <p>1. Transplanting Removed Elderberry Shrubs. Transplant removed elderberry shrubs to an approved, secure site, such as an approved mitigation bank location in Solano County or non-bank relocation site to be approved by the City and USFWS. All non-bank relocation sites shall meet the minimum reserve standards identified in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1. that shall be based on the principles found in the current working draft of the Solano HCP (e.g. site shall be protected by a conservation easement or other applicable protection measure, and funding shall be provided for long-term monitoring and maintenance). Transplanting shall occur between June 15 and March 15 (November through February is the optimal period for transplanting). Elderberry may not be transplanted between March 16 and June 14 except where isolated bushes are located more than 0.5 miles from other suitable valley elderberry longhorn beetle habitat and no signs of use (e.g. exit holes) have been identified.</p>	CD & PW	

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<p>BIO-10 - Long-term impacts to Swainson’s hawk foraging habitat in the irrigated agriculture conservation area (Figure 4.4-6) shall be mitigated through the preservation (conservation easement) and management of foraging habitat at a ratio of 1:1 (mitigation-to-impact). All mitigation areas shall remain in “agricultural production” provided these activities are consistent with the economics of agricultural operations. The following activities shall also be prohibited on the mitigation area in order to promote value for Swainson’s hawk foraging:</p> <ul style="list-style-type: none"> • Permanent plantings of orchards and/or vineyards for the production of fruits, nuts, or berries. • Cultivation of perennial vegetable crops such as artichokes and asparagus, as well as the annual crops cotton and rice. • Commercial feedlots, which are defined as any open or enclosed area where domestic livestock are grouped together for intensive feeding purposes. <ul style="list-style-type: none"> • Horticultural specialties, including sod, nursery stock, ornamental shrubs, ornamental trees, Christmas trees, and flowers. • Commercial greenhouses or plant nurseries • Commercial aquaculture of aquatic plants and animals and their byproducts. 	<p>CD & PW</p>	

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<p>BIO-13 - Mitigation for the permanent (i.e. more than one season) disturbance, destruction, or conversion of burrowing owl habitat for urban development or other permanent facilities shall be provided at a 1:1 ratio. Project sites that have been occupied during the nesting season at any time during the past three years or found to be nesting at the time of pre-construction surveys will be considered occupied by owls and require additional nesting habitat mitigation (described in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP). All burrowing owl habitat affected either directly, indirectly, or cumulatively by the project will be subject to the compensation requirement. Mitigation lands used to satisfy mitigation measures for other natural communities and/or species identified in Tables 4.4-2 and 4.4-3 of the Draft EIR (i.e. valley floor grassland and vernal pool natural community [excluding the wetland restoration/construction component], coastal marsh natural community, Swainson’s hawk, California red-legged frog, and callippe silverspot butterfly) can be used to satisfy burrowing owl conservation if the reserve area meets the basic burrowing owl reserve management standards</p> <p>Exemptions: Infill projects less than 5 acres in size and surrounded by urban development would have minimal effects on the extent and quality of burrowing owl habitat and are exempt from burrowing owl foraging habitat mitigation requirements unless a known or active nest is present. Additionally, project proponents are obligated to avoid destruction of active burrowing owl nests and take of burrowing owls in compliance with the federal Migratory Bird Treaty Act (MBTA) and California Fish and Game Code Section 3503.5 and to meet the requirements specified in the</p> <p>Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.</p>	<p>CD & PW</p>	

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<p>BIO-14 - If construction of pump stations, antennae sites, new irrigation canals, buried pipelines, or utilities (but excluding restoration and reserve management activities) will result in temporary impacts to occupied burrowing owl habitat (e.g. closure, collapse due to ground disturbance, or disturbance in the construction zone), impacts shall be mitigated according to the following criteria at all times of the year:</p> <p>1. Temporary Impacts Less Than or Equal to 1 Acre in Size: Install five burrows within 330 feet of the edge of the construction area if suitable contiguous habitat remains and no more than one pair of owls without eggs or young in the nest is displaced. This condition may be waived if an approved biologist, the City, and CDFW determine that the contiguous area already contains suitable donor burrows. Maintain vegetation height at 6 inches or less around the mitigation burrows to encourage use by owls.</p> <p>a. A monitoring program will be implemented to track and document the use</p> <p>b. Artificial burrows will be maintained by the applicant who owns the project that results in burrow or habitat destruction. Artificial burrows shall be maintained for a minimum of two years following completion of the project that resulted in the temporary impact. The construction site will be monitored annually to ensure that natural burrows have been re established on the construction site.</p> <p>1) If burrows have not been re established on the construction site within two years but owls are using other ground squirrel burrows on or adjacent to the site, then the artificial burrows will not require maintenance beyond the two-year period and no additional mitigation will be required.</p> <p>2) If the burrows have not been re established in the construction area and owls are not using other natural burrows on or adjacent to the construction site within two years, then the impact will be considered permanent and mitigation will be required according to Mitigation Measure BIO-13.</p> <p>c. The disturbed area shall also be monitored the following breeding season to determine if the owls return to the area to nest. If the owls do not return or relocate to a nearby site, the impacts will be required to provide additional mitigation per the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.</p>	<p>CD & PW</p>	

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Greenhouse Gas Emissions		
<p>GHG-1a - The City of Vacaville shall prepare an update to the Energy and Conservation Action Strategy (ECAS) within 18 months after the California Air Resources Board (CARB) adopts the second Update to the Scoping Plan for the greenhouse gas (GHG) reduction targets which correspond to the interim goal identified in Executive Order B-30-15 for year 2030, or no later than December 1, 2020, whichever is earlier.</p> <p>The ECAS shall include the following:</p> <ul style="list-style-type: none"> • Emission Inventories: The City shall update the community GHG emissions inventories and forecasts that correspond to the goals of Executive Order B-30-15 for GHG sectors that the City has direct or indirect jurisdictional control • Emission Targets: The City shall identify a GHG emissions reduction target for year 2030 that is consistent with the GHG reduction goals identified in Executive Order S-03-05. The ECAS shall be updated to include specific measures to achieve the 2030 GHG emissions reduction target. The ECAS shall quantify the approximate GHG reductions of each quantifiable measure or set of measures. Measures listed below, along with others, shall be considered during the update to the ECAS for the City's 2030 target: <ul style="list-style-type: none"> • The City shall identify a plan to expand electric and low-emission vehicle • The City shall work with the waste management agencies to expand the recycling program for businesses and residents to offer food waste collection services. • The City's existing land use database shall be expanded to include an inventory of infill sites to promote infill development. • The City shall explore additional streamlining incentive programs for infill development and sustainable building practices. • The City shall establish energy efficiency standards for new City buildings similar to, or comparable to, Leadership in Energy and Environmental Design (LEED) Silver standards. 	<p>CD & PW</p>	
<p>GHG-1b - The City of Vacaville shall revise the Energy and Conservation Action Strategy (ECAS) to expand ECAS Measure RE-4 to require the City to explore creation of a community choice aggregation program with the County of Solano.</p>	<p>CMO, CD, & PW</p>	

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Noise		
NOI-1 - The project applicant shall ensure that the following roadway segments shall be re-surfaced with a quiet pavement, such as Rubberized Hot Mix Asphalt – Open Graded (RHMA-O): <ul style="list-style-type: none"> • Vaca Valley Parkway from the Interstate 505 northbound ramps to Leisure Town Road • Leisure Town Road from Alamo Drive to Vanden Road • Ulatis Drive from Nut Tree Road to Leisure Town Road 	PW	
Transportation and Traffic		
TRAF-1 - The City of Vacaville shall implement the following measures [for the Alamo Drive at Marshall Road intersection]: <ul style="list-style-type: none"> • Southbound approach: Convert the southbound through-right shared lane in order to a through lane and add a south-bound right-turn lane to provide an ex-clusive right-turn lane, a through lane, a left-turn lane. • Westbound approach: Add a left-turn lane on the westbound to provide dual left-turn lanes, two through lanes and a through-right shared lane. 	PW	
TRAF-2 - The City of Vacaville shall implement the following measure [for the Alamo Drive at Merchant Street intersection]: <ul style="list-style-type: none"> • Westbound approach: Convert the west-bound outer through lane to a through-right shared lane to provide a through lane, a through-right shared lane, a right-turn lane, and two left-turn lanes. 	PW	
TRAF-3 - The City of Vacaville shall implement the following measure [for the Allison Drive at Nut Tree Parkway intersection]: <ul style="list-style-type: none"> • Northbound approach: Convert the northbound through-right shared lane to a through lane and add a right-turn lane to provide three through lanes and a right-turn lane. • Southbound approach: Convert the southbound left-through lane to an ex-clusive left-turn lane to provide two left-turn lanes and two through lanes. • Modify the traffic signal phasing to provide a protected left-turn phase on the south-bound approach 	PW	

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<p>TRAF-4 - The City of Vacaville shall implement the following measure [for the Leisure Town Road at Alamo Drive intersection]:</p> <ul style="list-style-type: none"> • Eastbound approach: Add an east-bound left-turn lane to provide dual left-turn lanes, a through lane, and a right-turn lane. 	PW	
<p>TRAF-5 - The City of Vacaville shall implement the following measures [for the Leisure Town Road at Elmira Road intersection]:</p> <ul style="list-style-type: none"> • Northbound approach: Add one left-turn lane and one right-turn lane, and convert the through-right shared lane to a through lane to provide two left-turn lanes, two through lanes, and a right-turn lane. • Southbound approach: Add one left-turn lane and one right-turn lane, and convert the through-right lane shared to a through lane to provide two left-turn lanes, two through lanes, and a right-turn lane. • Eastbound approach: Add a left-turn lane and one through lane, and convert the through-left shared lane to a through lane to provide one left turn lane, two through lanes, and a right-turn lane. • Westbound approach: Add a right-turn lane and convert the through-right shared lane to a through lane to provide one left-turn lane, two through lanes, and a right-turn lane. 	PW	
<p>TRAF-6 - The City of Vacaville, in coordination with Caltrans, shall implement the following measure [for the Leisure Town Road at Interstate 80 Eastbound Ramps]:</p> <ul style="list-style-type: none"> • Eastbound approach: Add a right-turn lane to the eastbound off-ramp approach to provide a left-turn lane, a left-through shared lane, and a right-turn lane. 	PW	

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<p>TRAF-7 - The City of Vacaville shall implement the following measures [for the Leisure Town Road at Orange Drive intersection]:</p> <ul style="list-style-type: none"> • Southbound approach: Add a south-bound left-turn lane to provide two left-turn lanes, two through lanes, and a right-turn lane; and prohibit the south-bound U-turn movement. • Westbound approach: Modify the traffic signal to provide overlap right-turn phasing for the westbound right-turn movement. 	PW	
<p>TRAF-8 - The City of Vacaville shall implement the following measures [for the Monte Vista Avenue at Allison Drive intersection]:</p> <ul style="list-style-type: none"> • Northbound approach: Convert a north-bound through lane to a right-turn lane to provide two left-turn lanes, one through lane, and two right-turn lanes; and modify the traffic signal phasing to provide over-lap northbound right-turn movement. • Westbound approach: Prohibit west-bound U-turn movements; convert a westbound through lane to a left-turn lane to provide two left-turn lanes, one shared through-right turn lane. 	PW	
<p>TRAF-9 - The City of Vacaville shall implement the following measure [for the Nut Tree Road at Elmira Road intersection]:</p> <ul style="list-style-type: none"> • Southbound approach: Convert a southbound through lane to a left-turn lane to provide two left-turn lanes, one through lane, and one through-right shared lane. 	PW	
<p>TRAF-10 - The City of Vacaville shall implement the following measures [for the Orange Drive at Nut Tree Road intersection]:</p> <ul style="list-style-type: none"> • Northbound approach: Add a north-bound right-turn lane and convert the through-right shared lane to a through lane to provide one left-turn lane, two through lanes, and a right-turn lane; provide lagging left-turn signal phasing. • Southbound approach: Add a south-bound right-turn lane and convert the through-right shared lane to a through lane to provide two left-turn lanes, two through lanes, and a right-turn lane; provide lagging left-turn signal phasing. • Westbound approach: Convert a west-bound through lane to a left-turn lane to provide three left-turn lanes, two through lanes, and one right-turn lane. 	PW	

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<p>TRAF-11 - The City of Vacaville shall implement the following measure [for the Peabody Road at Cliffside Drive intersection]:</p> <ul style="list-style-type: none"> • Eastbound approach: Add an eastbound left-turn lane to provide two-left turn lanes, a through-left shared lane, and a right-turn lane, and modify the lane alignment of the east-west movements. 	PW	
<p>TRAF-12 - The City of Vacaville shall implement the following measures [for the Peabody Road at CSF intersection]:</p> <ul style="list-style-type: none"> • Southbound approach: Add a south-bound right-turn lane and convert the through-right shared lane to a through lane to provide a left-turn lane, a through-left shared lane, and a right-turn lane. • South leg: Add a corresponding receiving lane on the south leg of the intersection 	PW	
<p>TRAF-13 - The City of Vacaville shall implement the following measures [at the Peabody Road at Elmira Road intersection]:</p> <ul style="list-style-type: none"> • Eastbound approach: Add an eastbound left-turn lane to provide two left-turn lanes, two through lanes, and one right-turn lane; modify the traffic signal to provide overlap eastbound right-turn phasing. • Northbound approach: Prohibit north-bound U-turn movement. • Westbound approach: Convert a through lane to a left-turn lane to provide two left-turn lanes, one through lane, and a through-right shared lane. 	PW	
<p>TRAF-14 - The City of Vacaville shall implement the following measure [for the Peabody Road at Foxboro Parkway intersection]:</p> <ul style="list-style-type: none"> • Northbound approach: Convert the northbound through-right shared lane to a through lane and add a right-turn lane to provide two through lanes and a right-turn lane. 	PW	
<p>TRAF-15 - The City of Vacaville shall implement the following measures [for the Peabody Road at Hume Way intersection]:</p> <ul style="list-style-type: none"> • Eastbound approach: Convert the west-bound through lane to a left-through shared lane to provide a left-turn lane, a left-through shared lane, and a right-turn lane; and modify the traffic signal to provide overlap right-turn phasing. • Northbound approach: Prohibit north-bound U-turn movement. 	PW	

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<p>TRAF-16 - The City of Vacaville shall implement the following measure [for the Vaca Valley Road at Crescent Drive intersection]:</p> <ul style="list-style-type: none"> • Southbound approach: Convert the through-right shared lane to a left-through-right shared lane to provide a left-turn lane and a left-through-right shared lane; modify the traffic signal to provide split phase operation on the north-south approaches. 	PW	
<p>TRAF-17 - The City of Vacaville shall implement the following measures [for the Vaca Valley Road at East Akerly Drive intersection]:</p> <ul style="list-style-type: none"> • Northbound approach: Convert the northbound through lane to a through-right shared lane to provide a left-turn lane, a through-right shared lane, and a right-turn lane; modify the traffic signal to provide split phase operations on the north-south approaches. • Westbound approach: Convert the west-bound through lane to a left-turn lane to provide two left-turn lanes and a through-right shared lane. 	PW	
<p>TRAF-18 - The City of Vacaville shall implement the following measures [for the Vaca Valley Road at New Horizons Way intersection]:</p> <ul style="list-style-type: none"> • Eastbound approach: Add an eastbound left-turn lane to provide two-left turn lanes, a through lane, and a through-right shared lane. • Northbound approach: Convert the northbound through lane to a left-turn lane to provide two left-turn lanes and a through-right shared lane. 	PW	
<p>TRAF-19 - The City of Vacaville shall implement the following measure [for the Leisure Town Road at Midway Road intersection]:</p> <ul style="list-style-type: none"> • Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met. 	PW	
<p>TRAF-20 - The City of Vacaville shall implement the following measure [for the Monte Vista Avenue at Airport Road intersection]:</p> <ul style="list-style-type: none"> • Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met in the PM peak hour. 	PW	

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<p>TRAF-21 - The City of Vacaville, in coordination with Caltrans, shall implement the following measure [for the Cherry Glen Road at Interstate 80 Eastbound Ramp intersection]:</p> <ul style="list-style-type: none"> • Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met. 	PW	
<p>TRAF-22 - The City of Vacaville, in coordination with Caltrans, shall implement the following measure [for the Cherry Glen Road at Interstate 80 Westbound Ramps]:</p> <ul style="list-style-type: none"> • Install stop signs on the northbound and southbound approaches to provide all-way stop control at the intersection. 	PW	
<p>TRAF-23 - The City of Vacaville shall implement the following measure [for the Leisure Town Road at Gilley Way intersection]:</p> <ul style="list-style-type: none"> • Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met. 	PW	
<p>TRAF-24 - The City of Vacaville shall implement the following measure [for the Leisure Town Road at Marshall Road intersection]:</p> <ul style="list-style-type: none"> • Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met. •Alternative mitigation measure: will need to be evaluated at this location, such as closing the median, or "worm islands" that restrict left turns. Because implementation of a traffic signal would be in conflict with other plans and policies. 	PW	
<p>TRAF-25 - The City of Vacaville shall implement the following measure [for the Leisure Town Road at North-South Arterial intersection]:</p> <ul style="list-style-type: none"> • Provide a storage pocket on the south leg to allow a two-stage, eastbound, left-turning movement. 	PW	
<p>TRAF-26 - The City of Vacaville, in coordination with Caltrans, shall implement the following measures [for the Midway Road at Interstate 505 Northbound Ramp intersection]:</p> <ul style="list-style-type: none"> • Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met. • Eastbound approach: Convert the east-bound through-left shared lane to a through lane, and add a left-turn lane to provide a left-turn lane and a through lane. 	PW	

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<p>TRAF-27 - The City of Vacaville, in coordination with Caltrans, shall implement the following measure [for the Midway Road at Interstate 505 Southbound Ramp intersection]:</p> <ul style="list-style-type: none"> • Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met. 	PW	
<p>TRAF-28 - The City of Vacaville shall implement the following measure [for the Nut Tree Road at Burton Drive intersection]:</p> <ul style="list-style-type: none"> • Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met. 	PW	
<p>TRAF-29 - The City of Vacaville shall implement the following measure [for the Vaca Valley Road at Allison Drive intersection]:</p> <ul style="list-style-type: none"> • Install stop signs on the eastbound and westbound approaches to provide all-way stop control at the intersection. 	PW	
<p>TRAF-30 - The City of Vacaville shall implement the following measures [for the Monte Vista Avenue at Depot Road intersection]:</p> <ul style="list-style-type: none"> • Northbound approach: Modify the traffic signal to allow an overlapping right-turn movement. • Westbound approach: Prohibit westbound U-turn movements. 	PW	

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Action Number	City Department(s)	Status
<p>TRAF-31 - The City of Vacaville, in coordination with Caltrans and the City of Fairfield, shall im-plement the following measures [for the In-terstate 80 Eastbound Ramps at North Texas Street intersection]:</p> <ul style="list-style-type: none"> • Eastbound approach: Convert the east-bound through-left shared lane to a left-through-right shared lane and add a right lane to provide one left-through-right shared lane, two exclusive right lanes. • Southbound approach: Add one south-bound through lane to provide one left-turn lane and two through lanes. 	<p>PW & Solano Transportation</p>	
<p>TRAF-32 - The City of Vacaville, in coordination with Caltrans and the City of Fairfield, shall im-plement the following measure [for the Interstate 80 Westbound Ramps at North Texas Street intersection]:</p> <ul style="list-style-type: none"> • Northbound approach: Restripe the northbound approach lanes on North Texas Street to provide two right-turn lanes, a through lane, and one left-turn lane. 	<p>City of Fairfield, PW, & Solano Transportation</p>	
<p>TRAF-33 - The City of Vacaville, in coordination with the City of Fairfield, shall implement the following measures [for the Peabody Road at Air Base Parkway intersection]:</p> <ul style="list-style-type: none"> • Eastbound approach: Add an eastbound left-turn lane to provide three left-turn lanes and two through lanes. • Westbound approach: Add a westbound right-turn lane to provide two right-turn lanes and two through lanes; modify traffic signal to allow right-turn overlap phasing. • Southbound approach: Prohibit south-bound U-turn movement. 	<p>City of Fairfield, PW, & Solano Transportation</p>	

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<p>TRAF-34 - The City of Vacaville, in coordination with the City of Fairfield, shall implement the following measures [for the Peabody Road at Jepson Parkway intersection]:</p> <ul style="list-style-type: none"> • Northbound approach: Add one north-bound left-turn lane, one through lane, and one right-turn lane to provide two left-turn lanes, three through lanes, and two right-turn lanes. • Southbound approach: Add two south-bound through lanes and one right-turn lane to provide one left-turn lane, three through lanes and two right-turn lanes. • Eastbound approach: Add one east-bound left-turn lane, one through lane, and one right-turn lane, and convert the through-right shared lane to an exclusive right-turn lane to provide two left-turn lanes, three through lanes, and two right-turn lanes. • Westbound approach: Add one westbound left-turn lane and one through lane to provide two left-turn lanes, two through lanes, and one through-right shared lane. 	<p>City of Fairfield, PW, & Solano Transportation</p>	