# MITIGATION MONITORING AND REPORTING PROGRAM

### SILVA VALLEY PARKWAY INTERCHANGE PROJECT

## EL DORADO HILLS, CALIFORNIA

SCH 1988050215



June 2011

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Prepared for:

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LSA Project No. MKT530

# LSA

#### COUNTY OF EL DORADO CEQA FINDINGS AND MITIGATION MONITORING/REPORTING PROGRAM FOR THE SILVA VALLEY PARKWAY INTERCHANGE PROJECT (PURSUANT TO CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 21081 AND 21081.6)

PROJECT DATA	KEY
SUPPLEMENTAL ENVIRONMENTAL IMPACT REPORT	Abbreviations: EDCDOT (El
State Clearinghouse No. 1988050215	Dorado County Department
Lead Agency: El Dorado County	of Transportation), AQMD
Department of Transportation	(Air Quality Management
2850 Fairlane Court, Building C	District), RWQCB (Regional
Placerville, CA 95667	Water Quality Control
(530) 642-0387	Board), Caltrans (California
Project Title: Silva Valley Parkway Interchange Project	Department of
Project Description/Location: The U.S. 50/Silva Valley Parkway Interchange will include a six lane overcrossing	Transportation), EID (El
(four through lanes and two deceleration lanes to the loop on-ramps), new signalized diagonal off-ramps, diagonal	Dorado Irrigation District),
on-ramps, and loop on-ramps. The mainline will be improved to include east and west auxiliary lanes between El	PG&E (Pacific Gas &
Dorado Hills Boulevard and the new Interchange.	Electric), SEIR
	(Supplementation
The Silva Valley Interchange will connect to the existing Silva Valley Parkway to the north at the western boundary	Environmental Impact
of the APN 122-720-09-100, where the County of El Dorado has proposed to widen the existing 2 lane roadway to a	Report), CDFG (Caifornia
4 lane divided roadway. Previous environmental reviews have been completed for the Silva Valley Parkway	Department of Fish and
extension.	Game), USFWS (United
	States Fish and Wildlife
Silva Valley Parkway will connect to the existing White Rock Road to the south and transition from the proposed 4	Services), ACOE (Army
lane divided roadway to the existing 2 lane roadway approximately +/-1,300 linear feet south of the existing Joerger	Corps of Engineers).
cutoff.	
More specifically, the project includes the following improvements:	
• The Interchange design is a partial cloverleaf with loop on-ramps in the northeast and southwest quadrants and diagonal on- and off-ramps in each direction of travel on the freeway.	

•	Continuous auxiliary lanes are proposed between El Dorado Hills Boulevard and the Silva Valley Parkway Interchange connecting the on-ramps with off-ramps.	
•	A 1,000' and 1,300' auxiliary lane will be constructed at the eastbound diagonal on-ramp and westbound diagonal off-ramp, respectively.	
•	The Silva Valley Parkway overcrossing would be constructed over the freeway (U.S. 50) and would provide a minimum of 16.5 feet of vertical clearance over U.S. 50. The structure would have four lanes for through traffic on Silva Valley Parkway in addition deceleration lanes for the loop on-ramps and turn pockets at the intersections.	
•	The ramp intersections will be signalized.	
•	New ramp crossings at Carson Creek and Old Silva Valley Parkway (renamed Clarksville Road) will require new structures. The new Clarksville Road ramp undercrossings will have a vertical clearance of 15 feet minimum.	
•	Safety lighting and signs will be constructed.	
•	On-ramps would be designed to accommodate future ramp metering, HOV lanes and California Highway Patrol enforcement areas.	
•	The existing Silva Valley Parkway at the Clarksville Underpass will remain a 2 lane local road with Class II bike lanes on each side of the road and a concrete sidewalk on the west side.	
•	Class II bicycle facilities will be provided either as part of the new Interchange, and as part of the existing undercrossing.	
•	The existing Tong Road north of the freeway will be relocated to provide access to the parcels in the northeast quadrant and connect to Silva Valley Parkway. This connection is temporary and will be removed once County Club Drive is constructed. The County is currently designing Country Club Drive as a separate project. The general location of the Tong Road realignment is shown in Figure 2.	
•	All public utility facilities impacted by the proposed project will be relocated and/or accommodated as necessary within one of three potential utility corridors, with the exception of El Dorado Irrigation District (EID) utilities. Figure 13 illustrates the placement of EID facilities.	

The El Dorado Irrigation District (EID) has various facilities located within the project area. The following facilities will be abandoned in place:	
• Approximately 2,500 linear feet of 12 inch recycled water pipeline parallel to U.S. 50.	
• Approximately 3,000 linear feet of 12 inch potable water pipeline in Tong Road	
The following EID facilities will be relocated as part of the project:	
• Relocation of existing blow offs, ARVs and valves on the recycled water line in existing Silva Valley Parkway	
• Relocation of existing blow offs, ARVs, sampling stations, fire hydrants and valves on the potable water line in existing Silva Valley Parkway	
• Replacing and raising approximately six existing sanitary sewer manholes in existing Silva Valley Parkway to accommodate project grade changes, or the relocation of these impacted facilities out of the project fill areas.	
• Relocation of an existing pressure reduction valve on the potable water line in existing Tong Road.	
The following EID facilities will be constructed to replace abandonments:	
• Installation of approximately 1,000 feet of new waterline to maintain service to the Korean Church, which is impacted by the Tong Road abandonment. Work involves connecting to the existing 12 inch waterline in the old "Lincoln Highway" to the east of the church.	
• Installation of approximately 2,500 linear feet of 12 inch recycled water line in a new private easement parallel to U.S. 50.	
Lastly, Pacific Gas & Electric Company (PG&E) has various facilities located within the project area. The following facilities will be removed and relocated to accommodate the interchange:	
• Approximately 2,900 linear feet of 60 kV power lines parallel to U.S. 50.	

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Approximately 1,000 linear feet of 21 kV power lines crossing U.S. 50 and existing White Rock Road.	
• Underground vault boxes and transformers in existing Silva Valley Parkway to accommodate project grade changes, or the relocation of these impacted facilities out of the project fill areas.	
In addition to these design features, the environmental analysis evaluates potential borrow sites within the project area, and the need for retaining walls to minimize environmental impacts and right-of-way acquisition along the project corridor including the PG&E Clarksville Substation and Carson Creek. The proposed project will be constructed in two phases.	

#### FINDINGS AND LEVEL OF SIGNIFICANCE AFTER MITIGATION

On the basis of the whole record, prior to approving a project, the decision making body of the lead agency shall consider the proposed Environmental Impact Report together with any comments received during the public review process.

The level of significance of each impact after mitigation is listed as: SU = Significant and Unavoidable, PS = Potentially Significant, LS = Less than Significant or NS = Not Significant.

#### Silva Valley Parkway Interchange Project – Mitigation Monitoring and Reporting Program

The following discussion is intended to present information on the project that is relevant to impact significance and mitigation measures. Several environmental issue areas have been included that have potentially significant impacts as a result of project implementation, and include mitigation measures accordingly. All other environmental issue areas are either not impacted by the project, or have less than significant impacts and do not require mitigation. The mitigation measures listed below are from both the original 1991 EIR, and the current 2011 Supplemental EIR, and represent all the mitigation required for the proposed project.

Approving Agency AESTHETICS	Responsible County Staff or Body	Timing	Mitigation Measures	Product/Action	Findings/ Significance After Mitigation	Rationale in SEIR
VIS-3: The pr	oject will substa	ntially degrade	the existing visual character or quality of the site and	its surroundings.		
EDCDOT &	DOT Director;	Prior to	VIS-1: The County shall enter into a Cooperative	Cooperative	LS	Page 21
Caltrans	Project	Construction	Agreement with Caltrans that ensures that Interchange	Agreement		
	Manager		landscaping is designed, constructed, and maintained.			
			Landscape plans shall be prepared by a licensed			
			Landscape Architect. Interchange landscape design shall			
			comply with applicable Caltrans and County standards			
			and shall be consistent with the natural landscape			
			characteristics.			

AIR-1: The p	roject will confli	ct with or obstru	act implementation of the applicable air quality plan.			
EDCDOT & AQMD	Contractor; DOT Director; Project Manager	Prior to Construction	<b>AIR-1:</b> The prime contractor shall provide an approved plan demonstrating that heavy-duty (i.e., greater than 50 horsepower) off-road vehicles to be used in the construction project, and operated by either the prime contractor or any subcontractor, will achieve, at a minimum, a fleet-averaged 15 percent NOx reduction compared to the most recent ARB fleet average. The prime contractor shall submit a comprehensive inventory to the El Dorado County AQMD of all off-road construction equipment, equal to or greater than 50 horsepower, that will be used an aggregate of 40 or more hours (total) during the construction project. The inventory shall include the horsepower rating, engine production year, and hours of use or fuel throughput for each piece of equipment. The inventory list shall be updated and submitted monthly throughout the duration of the construction period.	Approved Plan, Comprehensive Inventory of Equipment	LS	Page 36
=		=	otors to substantial pollutant concentrations.			
EDCDOT	DOT Director	Prior to Blasting	<b>AIR-2:</b> Notify local residents of blasting operations and comply with all applicable local, state, and general safety and air quality regulations.	Notification	LS	Page 38
EDCDOT & AQMD	DOT Director; Contractor	During Construction	<ul> <li>AIR-3: The County shall require construction contractors to comply with El Dorado County AQMD Rules 223, 223-1, and 223-2. Compliance shall include, but is not limited to, implementation of the following measures:</li> <li>Application of water hygroscopic materials, or non-toxic chemical stabilizers or other specified covering on material stockpiles, wrecking activity, excavation, grading, sweeping, or clearing of land;</li> <li>Installation and use of hoods, fans and filters to</li> </ul>	Compliance	LS	Page 38

			<ul> <li>enclose, collect, and clean the emissions of dusty materials;</li> <li>Covering or wetting at all times when in motion of open-bodied trucks, trailers or other vehicles transporting materials, which create a nuisance by generating particulate matter in areas where the general public has access;</li> <li>Application of asphalt, oil, water or suitable chemicals on dirt roads;</li> <li>Alternate means of control as approved by the Air Pollution Control Officer.</li> <li>Pursuant to Rule 223, a person shall not cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area, such that the presence of such fugitive dust remains visible, or exceed shade darker as that designated as No. 0 on the Ringelmann Chart, or exceed 0% opacity as determined in accordance with U.S. EPA Method 9, in the atmosphere beyond the boundary line of the emission source.</li> </ul>			
EDCDOT & APCD	DOT Director; Project Manager; Contractor; Air Pollution Control Officer	Prior to Construction	<b>AIR-4:</b> Pursuant to El Dorado County AQMD Rule 223- 1, the County shall submit a Fugitive Dust Control Plan to the Air Pollution Control Officer prior to the start of any construction activity. Construction activities shall not commence until the Air Pollution Control Officer has approved or conditionally approved the Fugitive Dust Control Plan. The County shall provide written notification to the Air Pollution Control Officer at least 10 days prior to the initial commencement of earthmoving activities via fax, e-mail, or mail. The Fugitive Dust Control Plan shall describe all fugitive dust control measures to be implemented before, during and after any dust generating activity. Fugitive Dust	Fugitive Dust Control Plan, Written Notification	LS	Page 38

			<ul> <li>Control Plan shall contain all the information described in Section 223-1.5.B of Rule 223-1. The Air Pollution Control Officer shall approve, disapprove, or conditionally approve the Fugitive Dust Control Plan within 30 days of plan submittal.</li> <li>Rule 223-1 requires that visible emissions shall not exceed the shade designated as No. 0 on the Ringelmann Chart, or 0% opacity as determined in accordance with U.S. EPA Method 9, at 50 feet from the point-of-origin and at the project area boundary. Visible emissions shall not exceed the shade designated as No. 1 on the Ringelmann Chart, or 20% opacity as determined in accordance with U.S. EPA Method 9 at the point-of- origin.</li> <li>The construction contractor shall retain a copy of an approved Fugitive Dust Control Plan at the project site. The approved Fugitive Dust Control Plan shall remain valid until the termination of all dust generating activities.</li> </ul>			
EDCDOT & AQMD	DOT Director; Project Manager; Contractor; Air Pollution Control Officer	Prior to Construction	AIR-5: Pursuant to El Dorado County AQMD Rule 223- 2, the County shall submit an Asbestos Dust Mitigation Plan to the Air Pollution Control Officer prior to the start of any construction activity. Construction activities shall not commence until the Air Pollution Control Officer has approved or conditionally approved the Asbestos Dust Mitigation Plan. The County shall provide written notification to the Air Pollution Control Officer at least 10 days prior to the commencement of earthmoving activities via fax or mail. The Asbestos Dust Mitigation Plan shall describe all dust mitigation measures to be implemented before, during and after any dust generating activity. The Asbestos Dust Mitigation Plan shall contain all the information	Asbestos Dust Mitigation Plan, Written Notification	LS	Page 38

			described in Section 223-2.5.B of Rule 223-2. The Air Pollution Control Officer shall approve, disapprove, or conditionally approve the Asbestos Dust Mitigation Plan within 30 days of plan submittal. Rule 223-2 requires that visible emissions shall not			
			exceed the shade designated as No. 0 on the Ringelmann Chart, or 0% opacity as determined in accordance with U.S. EPA Method 9, at 25 feet from the point-of-origin and at the project area boundary. Visible emissions shall not exceed the shade designated as No. 1 on the Ringelmann Chart, or 20% opacity as determined in accordance with U.S. EPA Method 9 at the point-of- origin.			
			The construction contractor shall retain a copy of an approved Asbestos Dust Mitigation Plan at the project site. The approved Asbestos Dust Mitigation Plan shall remain valid until the termination of all dust generating			
			activities.			
	LIMATE CHAN					
-	, <u>,</u>	<u> </u>	e gas emissions, either directly or indirectly, that may h	<b>°</b>	-	1
EDCDOT & AQMD	Contractor; DOT Director; Project Manager	Prior to Construction	See Mitigation Measure AIR-1.	Approved Plan, Comprehensive Inventory of Equipment	LS	Page 40
BIOLOGICA	AL RESOURCE	S				
BIO-1: The p	roject will have d	a substantial ad	verse effect, either directly or through habitat modifica	tions, on some sp	ecies identified	as a
· · ·	· •	<b>_</b>	n local or regional plans, policies, or regulations, or b	y the California D	Department of F	ish and
-	Fish and Wildli	,, _,, _			1	
EDCDOT	DOT Director	Prior to Construction	<b>BIO-1:</b> Prepare and implement a detailed biological mitigation plan (see Mitigation Measures BIO-2 thru BIO-8).	Biological Mitigation Plan	LS	Page 46 & 47
EDCDOT & CDFG	DOT Director; Contractor	Prior to Construction	<b>BIO-2:</b> Construction activities shall be initiated outside of the Swainson's hawk breeding season (which begins in	Limit Timing of Construction	LS	Page 46 & 47

			<ul> <li>late February until August) to avoid disturbing active nests to the extent feasible. If construction must begin during the breeding season, the County/contractor shall retain a Qualified Biologist to conduct a preconstruction survey in accordance with current CDFG guidelines. The survey shall be conducted before grading activities and no more than 30 days before the beginning of construction. If no nests are found, no further mitigation is required.</li> <li>If active nests are found, no construction activities shall take place within 0.25 mile of the nest until the young have fledged or authorization has been obtained from a Qualified Biologist with concurrence from CDFG. Weekly monitoring reports summarizing nest activities shall be submitted to the County and CDFG until the young have fledged and the nest is determined to be inactive. Trees found to contain active nests that must be removed as a result of project implementation shall be removed during the non-breeding season (late Sept. to late February).</li> </ul>	Activities, Preconstruction Survey		
EDCDOT & CDFG	DOT Director	Prior to Grading	<ul> <li>BIO-3: Prior to grading, a Qualified Biologist shall conduct preconstruction surveys (in accordance with current CDFG guidelines) of the project area and in a 250-foot wide buffer zone around the project site (excluding paved areas) to locate active burrowing owl burrows. If no burrowing owls are detected, a letter report documenting survey methods and findings will be prepared and no further mitigation is required.</li> <li>If active burrowing owl burrows are detected, the following mitigation will be required:</li> <li>Occupied burrows will not be disturbed during the nesting season (2/1 – 8/31). This shall be accomplished by establishing a 250-foot buffer</li> </ul>	Preconstruction Surveys, Letter Report, Construction Timing	LS	Page 46 & 47

			<ul> <li>around the occupied burrows. The size of the buffer may be reduced if a Qualified Biologist and CDFG determine that the reduction of the buffer would not have an adverse effect on the owls.</li> <li>If destruction of an occupied burrow is unavoidable during the nonbreeding season (9/1 – 1/31), passive relocation techniques approved by CDFG, such as installing on-way doors at the burrow entrance, will be used instead of trapping the owls. At least 1 week will be necessary to accomplish the passive relocation and allow the owls to acclimate to alternative burrows. After the owls have been confirmed to be absent from the burrows, the burrow entrances should be collapsed to prevent owls from re-entering the burrows.</li> </ul>			
EDCDOT	DOT Director	Prior to Construction	<b>BIO-4:</b> Conduct a preconstruction nesting bird survey for MBTA-regulated species 30 days prior to construction activities would be necessary. If an active nest is found, subsequent surveys will be necessary to determine when the nest is no longer active. If no active nests are found, no further mitigation is expected to be required.	Preconstruction Surveys	LS	Page 46 & 47
EDCDOT & USFWS	DOT Director; Contractor	Prior to Construction	<b>BIO-5:</b> Retain a Qualified Biologist to conduct a habitat assessment per USFWS protocols in areas with potentially suitable habitat that will be affected. Should no suitable CRLF habitat occur on or adjacent to the site following the habitat assessment, then no further mitigation shall be required. If CRLF habitat is determined to be present, then a presence/absence survey shall be conducted. If CRLF are not observed during the survey, then no further mitigation is expected to be necessary. If CRLF are observed, the following shall be required: obtain a no jeopardy biological opinion from the USFWS in conjunction with the Clean Water Act Permit (see BIO-11). All the terms and conditions of the BO from the USFWS shall be implemented. While at the	Habitat Assessment, Protocol Surveys, Biological Assessment	LS	Page 46 & 47

		21	discretion of the USFWS, the terms and conditions of the Biological Opinion will include measures to avoid and/or minimize incidental take of the species and conservation measures to ensure habitat protection.			
EDCDOT & USFWS	DOT Director; Contractor	Prior to Construction	<b>BIO-6:</b> Implement elderberry mitigation per USFWS guidelines. Specifically, to minimize impacts on VELB habitat, the following measures shall be implemented consistent with USFWS's Compensation Guidelines for verified VELB habitat and prior to commencement of construction:	Habitat Survey, Biological Assessment, Mitigation Plan	LS	Page 46 & 47
			• A qualified biologist will identify and mark all elderberry shrubs in the study area containing stems 1.0 inch or greater. Orange construction barrier fencing will be installed at least 20 feet from the dripline of all elderberry shrubs or per USFWS that will be avoided to identify and protect the shrubs. No construction activities will be allowed within the fenced area without consent of the USFWS.			
			• Signs will be posted on the environmentally sensitive area fencing and maintained for the duration of construction. The signs will state, "This area is habitat of the valley elderberry longhorn beetle, a threatened species, and must not be disturbed. This species is protected by the Endangered Species Act of 1973, as amended."			
			• Obtain a biological opinion from the USFWS under Section 7 and in conjunction with the Clean Water Act Permit.			
			• Coordination with the USFWS shall be required through preparation of the BO and VELB mitigation plan to determine that one or more of the following measures will be implemented to fully mitigate for impacts to VELB:			

			<ul> <li>A. Transplant elderberry shrubs to a conservation area in accordance with USFWS' current Conservation Guidelines for Valley Elderberry Longhorn Beetle;</li> </ul>			
			<ul> <li>B. Replace shrubs at a ratio from 1:1 through 8:1, depending on the diameter of the stem at ground level, whether the shrub is located in riparian or upland habitat, and if the shrub has evidence of exit holes;</li> </ul>			
			<ul> <li>C. Plant elderberry shrubs, and five seedlings and five associated native plants, in an area of at least 1,800 square feet per transplant;</li> </ul>			
			<ul> <li>D. Perform maintenance, implement remedial measures, and submit reports, following the requirements in the USFWS guidelines (1999); or</li> </ul>			
			<ul> <li>E. To compensate for loss of habitat for VELB, the County may either acquire and manage in perpetuity a local mitigation site that is approved by USFWS for the sole purpose of compensating project impacts on VELB; or participate in a local USFWS-approved mitigation bank.</li> </ul>			
			• The VELB mitigation plan shall be completed and submitted to the County and USFWS prior to grading or ground-disturbing activity within 100 feet of VELB habitat or potential habitat.			
EDCDOT & CDFG	DOT Director; Contractor	Prior to Construction	<b>BIO-7:</b> To avoid removal of migratory bird or raptor active nests, vegetation removal and trimming should be conducted during the non-breeding season (August 16–January 31). If this is not possible, the following measure will be implemented:	Vegetation Removal and Trimming or Preconstruction Survey, Establish	LS	Page 46 & 47

If construction activities are anticipated to occur mainly	Buffers	
during the nesting season for migratory birds and raptors		
(generally February through August), the County will		
retain a qualified biologist to conduct preconstruction		
surveys for nesting birds for all construction activities		
that occur within or near suitable breeding habitat. The		
surveys will be conducted no more than 30 days prior to		
the start of construction activities and will cover all		
affected areas, including construction areas and staging		
areas where ground disturbance or vegetation clearing is		
required. If no active nests are detected, no additional		
mitigation measures are required.		
mugaton measures are required.		
If surveys indicate that migratory bird or raptor nests		
occur in areas where construction activities will take		
place, a no-disturbance buffer will be established around		
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e .		
monitor determines that birds on the nest are stressed		
-		
the nest site to avoid disturbance or destruction of the nest site until after the breeding season or until a wildlife biologist determines that the young have fledged. Generally, the buffer zones are 50–100 feet for nesting passerine birds and 300 feet for nesting raptors other than Swainson's hawks. However, the extent of these buffers will be determined through coordination with CDFG and will depend on the level of noise or construction disturbance, line of sight between the nest and the disturbances, and other topographical or artificial barriers. These factors will be analyzed to make an appropriate decision on buffer distances. Active nests occurring in or near the study area will be monitored during construction by the onsite monitor. If the onsite		

EDCDOT &	DOT Director;	Prior to	<b>BIO-8:</b> Retain a Qualified Biologist to conduct, not more	Preconstruction	LS	Page 46 &
CDFG	Contractor	Construction	than 15 days prior to construction, a preconstruction	Survey, Consult		47
			survey for adult western pond turtle(s), hatchlings and	with CDFG		
		eggs, focusing on perennial marsh habitat areas and				
		uplands within 300 feet of such potential habitat. If adult				
		pond turtles are located in the construction area, the				
			biologist will consult with CDFG about relocating the			
			turtle to a suitable aquatic site outside the construction			
			area. If an active pond turtle nest containing either pond			
			turtle hatchlings or eggs is found, a no-disturbance buffer			
			of 300 feet around the nest site will be established until			
			the hatchlings have moved to a nearby aquatic site or			
			have been relocated.			
3 <b>10-2</b> : The p	roject will have a	r substantial adv	verse effect on riparian habitat or other sensitive natur	al communities ide	entified in loca	l or regional
olans, policie	s, regulations or	by the Californ	ia Department of Fish and Game or U.S. Fish and Wi	ldlife Service.		
EDCDOT	DOT Director	As specified in	<b>BIO-9:</b> Implement wetland/waters of the U.S. mitigation	Implement	LS	Page 51
		Section 404	as determined by Section 404 permit and agreed upon by	Mitigation		C
		Permit	the Corps (See BIO-11).	Specified in		
				Section 404		
	1		1	Permit		1

**BIO-3**: The project will have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.

EDCDOT &	DOT Director	Prior to	BIO-10: Protect riparian habitat and associated wetlands	CDFG 1602	LS	Page 51
CDFG &		working in any	from construction areas according to the standards	Agreement,		
CVRWQCB		wetlands or	established in California Fish and Game Code 1600 and	CRWQCB 401		
		Waters of the	Sections 402 and 404 of the Clean Water Act. Comply	Certification		
		State.	with wetland/waters of the U.S. mitigation required by			
			Section 404 of the Clean Water Act and Section 1600 of			
			California Fish and Game Code. At a minimum, this will			
			include replacement or restoration of disturbed habitat			
			sufficient to achieve no net loss of function. (See also			
			Mitigation Measures HYD-1, HYD-6 and GEO-2).			
EDCDOT &	DOT Director	Prior to	BIO-11: The County shall require avoidance of wetlands	ACOE Section	LS	Page 51
ACOE		working in any	to the extent practicable. Prior to any construction	404 permit,		
		wetlands or	activities that could directly or indirectly impact	Further		

						1
		Waters of the	jurisdictional wetlands within the project area, the	Documentation		
		U.S.	contractor and/or County shall obtain a Section 404	Required by the		
			permit from the Army Corps of Engineers (Corps), as	Permit		
			needed, and mitigate for the effects at a minimum 1:1			
			ratio to ensure "no-net-loss" through either wetland			
			creation and/or restoration as agreed upon with the Corps.			
			The County shall be provided with evidence of			
			fulfillment of this measure, including but not limited to			
			proof of purchase of credits in a mitigation bank, or with			
			a Habitat Mitigation and Monitoring Plan for creation of			
			wetlands coupled with proof that the mitigation site will			
			be preserved in perpetuity.			
BIO-5: The p	roject will confli	ct with local po	licies or ordinances protecting biological resources, su	ch as a tree presei	rvation policy or	· ordinance.
EDCDOT	DOT Director;	Prior to tree	<b>BIO-12:</b> A certified arborist shall conduct an oak	Oak Woodland	LS	Page 53
	Contractor	removal	woodland canopy survey in accordance with	Canopy Survey		U
			requirements of the OWMP, which include: An Oak	and Report		
			Woodland Canopy Report shall be prepared and	······································		
			submitted to the County for review and approval. The			
			report shall contain survey methodology and results and			
			the survey results will be used to quantify impacts and			
			mitigation requirements (i.e., percentage of canopy that			
			would be removed, retained, and replaced) prior to tree			
			removal.			
			If possible, the retention standards stipulated in the			
			OWMP (see Table 4.4-3) shall be adhered to. If retention			
			requirements cannot be met, then mitigation for the total			
			area of oak woodland canopy impacted shall occur in			
			accordance with either Option A (On-Site Mitigation,			
			Replanting and Replacement), Option B (Conservation			
			Fund In-Lieu Fee), or a combination of these.			
·			r une in Lieu i ce), or a combination of these.			

EULT-1: The EDCDOT	DOT Director;	Prior to	<b>CULT-1</b> : Before initiation of construction or ground-	Training,	LS	Page 63 &
EDCDOT	Contractor	ground-	disturbing activities associated with the project, for all	Measures in the	LS	64
	Contractor	disturbing	project phases, all construction personnel shall attend a	Event Resources		0-1
		activities	training session so they are alerted to the possibility of	are Discovered		
			buried cultural resources within the project site. The			
			general contractor and its supervisory staff shall be			
			responsible for monitoring the construction project for			
			disturbance of cultural resources. Should any cultural			
			resources, such as structural features, unusual amounts of			
			bone or shell, artifacts, human remains, or architectural			
			remains be encountered during any development			
			activities, work shall be suspended and the County shall			
			be notified immediately. The County shall retain a			
			qualified archaeologist who shall conduct a field			
			investigation of the specific site and recommend			
			mitigation deemed necessary for the protection or			
			recovery of any cultural resource concluded by the			
			archaeologist to represent historical resources or unique			
			archaeological resources. The County shall be			
			responsible for approval of recommended mitigation if it			
			is determined by the County to be feasible in light of			
			approved land uses. Work shall be suspended only in the			
			immediate vicinity of the find and not across the entire			
			project. Therefore, work may continue in other parts of			
			the project area while evaluation and any mitigation are conducted at the location of the find.			
			In accordance with the California Health and Safety			
			Code, if human remains are uncovered during			
			construction at the project site, work within 50 feet of the			
			remains shall be suspended immediately, and the County			
			and the County Coroner shall be notified immediately. If			1

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			the remains are determined by the County Coroner to be Native American, the NAHC shall be notified within 24 hours of that determination (Health and Safety Code Section 7050[c]), and the guidelines of the NAHC shall be adhered to in the treatment and disposition of the remains. The NAHC will then assign a Most Likely Descendant (MLD) to serve as the main point of Native American contact and consultation. Following the coroner's findings, the MLD and the archaeologist shall determine the ultimate treatment and disposition of the remains and take appropriate steps to ensure that additional human interments are not disturbed. The County shall be required to implement any feasible, timely-formulated mitigation deemed necessary for the protection of the burial remains. Construction work in the vicinity of the burials shall not resume until the mitigation is completed. This measure shall be included			
			in all grading and improvement plans for all project			
			phases.			
EDCDOT	DOT Director; Contractor	During Construction	<b>CULT-2:</b> Preserve CA-ELD-585-H or require additional work.	Preservation of Resource	LS	Page 63 & 64
EDCDOT	DOT Director;	Prior to	CULT-3: Prior to any ground disturbing activity within	Placement of	LS	Page 63 &
	Contractor	ground-	the vicinity of CA-ELD-585-H, place temporary	Fencing		64
		disturbing	construction fencing around the stamp mill/terrace and			
EDCDOT	DOT D'aux	activity	cabin features supervised by a qualified archaeologist.	Dalaration f	IC	Data (2.0
EDCDOT	DOT Director;	During Construction	<b>CULT-4</b> : If impacted by construction, relocate the State Historical Landmark Monument. Approval must be	Relocation of State Historical	LS	Page 63 & 64
	Contractor	Construction	sought from the State Office of Historic Preservation and	Landmark		04
			the monument moved prior to construction in the vicinity.	Lanumark		
CULT-4: The	project will dist	urb anv human	remains present, including those interred outside of fo	ormal cemeteries.		
EDCDOT	DOT Director;	Prior to ground	<b>CULT-5:</b> Prior to any ground disturbance within the	Remote Sensing	LS	Page 68
	Contractor	disturbance	vicinity of the Tong cemetery, remote sensing such as	for Graves	_~	
			ground-penetrating radar and/or mechanized test			
			excavations supervised by a qualified archaeologist shall			
			be undertaken between the cemetery and the freeway. If			
			graves are discovered during or subsequent to the remote			

		,	transport and re-inter the remains. In addition, temporary construction fencing shall be placed around the cemetery to protect it from accidental damage prior to construction of the retaining wall and/or utilities. Placement of the temporary fencing and construction of the retaining wall and any above-ground or below-ground utilities shall be monitored by a qualified archaeologist. <b>CULT-6:</b> As previous efforts through archival research and surface examination to precisely locate the Hall/Richmond cemetery have failed, physical efforts such as remote sensing and/or mechanized test excavation shall be undertaken prior to any ground disturbing activity between the freeway and the existing Tong Road. A qualified archaeologist shall be consulted to locate the grid for remote sensing, such as ground penetrating radar. If mechanized test excavations are undertaken, a qualified archaeologist shall supervise the excavations. If graves are discovered and cannot be avoided by construction, then the archaeologist will coordinate with El Dorado County to disinter, remove, transport and re-inter the remains. If graves can be avoided, but surface of cemetery must be graded or otherwise adversely affected, then cemetery and/or graves shall be marked to avoid future disturbance. <b>RDOUS WASTE</b> )	Remote Sensing for Graves	LS njury, or dea	Page 68
<u>trong seismid</u> EDCDOT	c ground shaking DOT Director; Contractor	Prior to Construction	<b>GEO-1:</b> A project specific geotechnical report shall be prepared. All recommendations included in the geotechnical report shall be implemented, including recommended materials specifications.	Geotechnical Report	LS	Page 74

EDCDOT	DOT Director; Contractor	Prior to Construction	<b>GEO-2:</b> Develop and implement a project-wide erosion control program.	Erosion Control Program	LS	Page 75
EDCDOT	DOT Director; Contractor	During Construction	<b>GEO-3:</b> Conditions listed within the 404 permit shall be applied to springs and seepage areas.	Follow Conditions in 404 Permit	LS	Page 75
-	U	0	ogic unit or soil that is unstable, or that would become ateral spreading, subsidence, liquefaction, or collapse.	unstable as a resul	t of the projec	ct, and
EDCDOT	DOT Director; Contractor	During Construction	<b>GEO-4:</b> The proposed project shall comply with all applicable local, state, and federal safety regulations regarding blasting activities.	Compliance with Regulations	LS	Page 76
	project will creat	e a significant h	nazard to the public or the environment through the ro	outine transport, use	e, or disposal	of hazardou
<i>materials.</i> EDCDOT	DOT Director;	Prior to and	<b>HAZ-1:</b> All recommended measures listed in the 2007	Implement ISA	LS	Page 77
LDCDOT	Contractor	During Construction	Initial Site Assessment shall be implemented.	Requirements	LS	Tage //
EDCDOT	DOT Director; Contractor	Prior to Grading	<ul> <li>HAZ-2: A NOA monitoring plan will be required prior to grading. This plan shall include:</li> <li>A geologist trained in the recognition of NOA should be intermittently present during grading operations.</li> </ul>	NOA Monitoring Plan	LS	Page 77
			<ul> <li>The geologist shall observe site conditions and implement special grading conditions when NOA is present.</li> </ul>			
			• BMPs for fugitive dust control shall be practiced during all grading operations consistent with El Dorado County AQMD regulations.			
EDCDOT & AQMD	DOT Director; Contractor	Prior to Construction	<b>HAZ-3:</b> If NOA is present at the project site, the El Dorado Air Quality Management District NOA regulations for Road Construction and Maintenance shall be followed.	Follow Regulations	LS	Page 77
			which is included on a list of hazardous materials sites	and, as a result, cr	eate a signific	ant hazard t
ne public or l	the environment	•	See Mitigation Measure HAZ-1.			
				·		

HYDROLOG	GY AND WATE	R QUALITY				
HYD-1: The p	project will viola	te water quality	standards and waste discharge requirements.			
EDCDOT & RWQCB	DOT Director	Prior to Construction	<b>HYD-1:</b> Prior to the approval of grading permits and improvement plans a SWPPP must be prepared consistent with the existing statewide NPDES storm water permit for general construction activity. The appropriate NOIs shall also be prepared and submitted and any other necessary engineering plans and specifications for pollution prevention and control to the RWQCB. The SWPPP and other appropriate plans shall identify and specify:	SWPPP, NPDES Permit & BMPs	LS	Page 83
			• The use of erosion and sediment-control BMPs, including construction techniques, that shall reduce the potential for runoff as well as other measures to be implemented during construction;			
			• The implementation of approved local plans, nonstormwater-management controls, permanent post construction BMPs, and inspection and maintenance responsibilities;			
			• The pollutants that are likely to be used during construction that could be present in stormwater drainage and nonstormwater discharges, including fuels, lubricants, and other types of materials used for equipment operation;			
			• Spill prevention and contingency measures, including measures to prevent or clean up spills of hazardous waste and of hazardous materials used for equipment operation, and emergency procedures for responding to spills;			
			• Personnel training requirements and procedures that shall be used to ensure that workers are aware of permit requirements and proper installation methods			

for BMPs specified in the SWPPP; and	
• The appropriate personnel responsible for supervisory duties related to implementation of the SWPPP.	
BMPs identified in the SWPPP shall be in place throughout all site work and construction/demolition activities and shall be used in all subsequent site development activities. BMPs may include but not be limited to the following:	
• Implementing temporary erosion-control measures in disturbed areas to minimize discharge of sediment into nearby drainage conveyances. These measures may include silt fences, staked straw bales or wattles, sediment/silt basins and traps, geofabric, sandbag dikes, and temporary vegetation.	
• Establishing permanent vegetative cover to reduce erosion in areas disturbed by construction by slowing runoff velocities, trapping sediment, and enhancing filtration and transpiration.	
• Using drainage swales, ditches, and earth dikes to control erosion and runoff by conveying surface runoff down sloping land, intercepting and diverting runoff to a watercourse or channel, preventing sheet flow over sloped surfaces, preventing runoff accumulation at the base of a grade, and avoiding flood damage along roadways and facility infrastructure.	
All construction contractors shall retain a copy of the approved SWPPP on the construction site.	

EDCDOT	DOT Director;	Prior to	<b>HYD-2:</b> Size culverts in accordance with El Dorado	Size Culverts	LS	Page 85 &
	Contractor	Construction	County and Caltrans requirements.			86
EDCDOT	DOT Director;	Prior to	HYD-3: Install erosion control measures at outlets and	Erosion Control	LS	Page 85 &
	Contractor	Construction	implement El Dorado County Resource Conservation	Measures		86
			District (RCD) requirements.			
EDCDOT	DOT Director;	During	HYD-4: Provide adequate subgrade drains as determined	Provide Drains	LS	Page 85 &
	Contractor	Construction	necessary by a geotechnical engineer.			86
EDCDOT	DOT Director;	Prior to and	<b>HYD-5:</b> Require review of the design plans by a	Review of	LS	Page 85 &
	Contractor	During	geotechnical engineer. Minimize activity in the spring	Design Plans,		86
		Construction	area. Implement a water quality monitoring program.	Implement WQ Monitoring Plan		
EDCDOT	DOT Director;	Prior to	HYD-6: Before commencement of construction	Hydrology Plan	LS	Page 85 &
	Contractor	Construction	activities, a detailed hydrology plan shall be prepared by			86
			a qualified engineer. This plan shall finalize the water			
			quality improvements and further detail the structural and			
			nonstructural BMPs proposed for the project. The plans			
			shall include the following:			
			A quantitative analysis of proposed conditions			
			incorporating the proposed drainage design features;			
			• Pre-development and post-development calculations			
			demonstrating that the proposed water quality BMPs			
			meet or exceed requirements established by the			
			RWQCB.			
			runoff water, which will exceed the capacity of existing	g or planned storm	water drainage	systems or
provide substa	intial additional	sources of polli		<u>г                                     </u>		1
			See Mitigation Measure HYD-6.			
HYD-10: The	project will cau	se inundation b	y seiche, tsunami, or mudflow.	1		1
			See Mitigation Measure GEO-1.			
	ND PLANNING					
LU-1: The pro	oject will physica	illy divide an es	tablished community.			
EDCDOT	DOT Director;	During	LU-1: Construct the alternative access road, provide	Maintain Access	LS	Page 92
	Contractor	Construction	driveways to the residential structures, and ensure that			_
			continuous access is provided during construction.			

LU-2: The provide the provided the second se	oject will conflic	t with applicabl	e land use plans, policies, or regulations of an agency	with jurisdiction o	ver the project	adopted for
the purpose o	f avoiding or mi	tigating an envi	ronmental effect.			
EDCDOT	DOT Director	Prior to and	LU-2: Provide "just compensation" to the property	Just	LS	Page 92 &
		During	owners.	Compensation		93
		Construction	In addition, mitigation measure VIS-1 is also required.	_		
TRAFFIC AN	D TRANSPORT	ATION				•
TRAF-1: The	project will con	flict with an app	olicable plan, ordinance or policy establishing measur	es of effectiveness	for the perforn	nance of the
			des of transportation including mass transit and non-			
			ed to intersections, streets, highways and freeways, pe			
EDCDOT	DOT Director;	Prior to	<b>TRAF-1:</b> A traffic control and safety plan shall be	Traffic Control	ĹS	Page 125
	Contractor	Construction	prepared before construction begins, and shall comply	and Safety Plan		-
			with all County and Caltrans standards.	·		
TRAF-2: The	project will con	flict with an app	blicable congestion management program, including,	but not limited to l	evel of service	standards
			rds established by the county congestion management			
EDCDOT	DOT Director	During	<b>TRAF-2:</b> In 2020 for the Valley View Parkway/White	Provide Turn	LS	Page 129
		Construction	Rock Road intersection: provide dual left turn lanes on	Lanes		-
			the westbound approach. These improvements are			
			identified in the County CIP.			
EDCDOT	DOT Director	During	<b>TRAF-3:</b> In 2030 for the Valley View Parkway/White	Complete	LS	Page 129
		Construction	Rock Road intersection: widen the northbound approach	Roadway		
			to provide a left turn, a shared left-through, and a	Changes as		
			dedicated right turn lane as well as provide dual left turn	Identified in the		
			lanes on the westbound approach and a dedicated right	County CIP		
			turn on the eastbound approach. These improvements are			
			identified in the County CIP.			
EDCDOT	DOT Director	During	TRAF-4: In 2030, for the Latrobe Road/White Rock	Complete	LS	Page 129
		Construction	Road intersection: provide a northbound right and left-	Roadway		
			turn lane, a third eastbound through late, and a dedicated	Changes as		
			eastbound right-turn lane. These improvements are	Identified in the		
			identified in the County CIP and 2010-2030 RTP.	County CIP &		
				RTP		

#### PUBLIC SERVICES (AND ENERGY)

PS-1: The project will result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any public services, including: fire protection, police protection, schools, parks, or other public facilities.

EDCDOT	DOT Director;	During	<b>PS-1:</b> Relocation of public utilities will be performed in	Relocation of	LS	Page 134
	Contractor	Construction	accordance with State law and regulations and the State's	Utilities		
			policies concerning utility encroachments.			
EDCDOT	DOT Director;	During	<b>PS-2:</b> Provide for electrical and gas line conduits in the	Provide Line	LS	Page 134
	Contractor	Construction	Interchange design.	Conduits		
EDCDOT &	DOT Director;	During	PS-3: Relocate EID Water, Recycled Water, and Sewer	Relocate EID	LS	Page 136
EID	Contractor	Construction	Lines in conflict with proposed interchange during	Utilities		
			construction.			

#### NOISE

NOI-4: Would the project result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above or groundborne noise levels?

EDCDOT	DOT Director;	During	Mitigation Measure NOI-1: To reduce construction	Reduce Noise	SU	Page 20
	Contractor	Construction	noise impacts to the maximum extent feasible the project			(recirculated
			sponsor shall implement the following measures:			section)
			• The project contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers consistent with manufacturers' standards;			
			• The project contractor shall place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the project site;			
			• For construction of the interchange, the County will prohibit the construction contractor from undertaking construction activities on Sunday, legal holidays, or between the hours of 7 p.m. and 7 a.m. on other days			
			except when the County determines that work must			

be performed at night to mitigate traffic congestion or safety hazards;	
• Detour routes shall conform to Caltrans and County standards; and	
• The construction contractor shall locate equipment staging in areas that will create the greatest possible distance between construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction per the County's standards.	