

Table S-2. Summary of Impacts and Mitigation Measures

Impact and Mitigation by Resource Area	Point Arena to Sacramento	Sacramento to Calif./Nevada Border	San Francisco to Santa Clara	Pittsburgh to Sacramento	San Luis Obispo to Bakersfield	San Luis Obispo to Los Osos Loop	Riverside to California/Arizona Border	Los Angeles to Riverside	Los Angeles to Anaheim
Aesthetics									
<p>Impact: Possible Temporary Minor Changes in Landscape from Trenching Operations</p> <p>Mitigation: Mitigation is incorporated in the design and construction approach.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Minor Changes in the Existing Visual Character or Quality of a Site</p> <p>Mitigation: Mitigation is incorporated in the design and construction approach.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Minimal Visual Effect Resulting from Construction of Regenerator/OP-AMP Stations</p> <p>Mitigation Measure A-1: Design Regenerator/OP-AMP Stations to Be Unobtrusive</p>	•	•		•	•		•	•	

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Agricultural Resources - no impacts would occur.									
Air Quality									
<p>Impact: Temporarily Increased Levels of Air Pollutants during Construction Exceeding Air District Thresholds</p> <p>Mitigation Measure AQ-1: Implement Construction Best Management Practices</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Temporary Emissions Exceeding Limits from Operating Emergency Backup Generators</p> <p>Mitigation Measure AQ-2: Obtain Authority to Construct and Permit to Operate Emergency Backup Generators, Where Required</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Temporary Generation of Odors from Diesel Exhaust during Construction and from Diesel Backup Generators at Regenerator/OP-AMP Stations</p> <p>Mitigation: None required because the impact is absent or less than significant.</p>	•	•	•	•	•	•	•	•	•

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Biological Resources									
<p>Impact: Possible Disturbance of Special-Status Plant Populations</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction.</p> <p>Mitigation Measure B-3: Avoid Impacts on State-Listed and Federally Listed and CNPS 1B Special-Status Plant Populations by Establishing and Observing Exclusion Zones</p>	•	•	•	•	•	•	•	•	•
<p>Mitigation Measure B-4: Avoid Impacts on CNPS Lists 2 and 4 Special-Status Plant Populations by Implementing Specific Measures</p> <p>Mitigation Measure B-5: Confine Construction Equipment and Associated Activities to the Project Routes in Areas That Support Sensitive Resources</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Introduction of New Noxious Weeds or Spread of Existing Noxious Weed Infestations</p> <p>Mitigation Measure B-6: Avoid the Dispersal of Noxious Weeds in the Fiber Optic Cable and Associated Facility Rights-of-Way</p>	•	•		•	•	•	•	•	

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<p>Impact: Possible Disturbance of Vernal Pools and Associated Habitat for Special-Status Species</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-7: Avoid Impacts on Vernal Pool Habitats by Establishing and Observing Exclusion Zones around Vernal Pools and Hydrologically Connected Areas</p>				<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 				
<p>Impact: Possible Disturbance to Delta Green Ground Beetle and Its Habitat</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-7: Avoid Impacts on Vernal Pool Habitats by Establishing and Observing Exclusion Zones around Vernal Pools and Hydrologically Connected Areas</p> <p>Mitigation Measure B-8: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p>				<ul style="list-style-type: none"> • 					

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<p>Impact: Construction Activities Near Areas that are Habitat for the Valley Elderberry Longhorn Beetle</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-9: Avoid Disturbance to Elderberry Shrubs by Establishing and Observing Exclusion Zones</p>	<p>•</p>	<p>•</p>		<p>•</p>					
<p>Impact: Possible Disturbance to Delhi Sands Flower-Loving Fly Habitat</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-10: Avoid Disturbance to Delhi Sands Flower-Loving Fly Habitat</p>						<p>•</p>			

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<p>Impact: Possible Disturbance to Quino Checkerspot Butterfly Habitat</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-11: Avoid Disturbance to Quino Checkerspot Butterfly Habitat</p>							<ul style="list-style-type: none"> • 		
<p>Impact: Possible Disturbance to Morro Shoulderband Snail Habitat</p> <p>Mitigation Measure B-12: Avoid Morro Shoulderband Snail Habitat by Rerouting or Boring Under Suitable Habitat Areas</p>						<ul style="list-style-type: none"> • 			

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<p>Impact: Possible Disturbance of Habitat for Non-Federally Listed Special-Status Amphibians and Reptiles</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-8: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p> <p>Mitigation Measure B-13: Avoid Disturbance to Special-Status Reptiles and Amphibians by Boring Under Streams or Constructing Barrier Fencing and Relocating Animals During Construction</p>	•	•		•	•	•	•		

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<p>Impact: Possible Disturbance to California Red-Legged Frogs in Drainages That Intersect the Proposed Project Route</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-8: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p>		<ul style="list-style-type: none"> • 			<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 		
<p>Impact: Possible Disturbance of Habitat for the Arroyo Southwestern Toad</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-8: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p>							<ul style="list-style-type: none"> • 		

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<p>Impact: Possible Disturbance to Potentially Occupied Habitat for California Tiger Salamanders</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-7: Avoid Impacts on Vernal Pool Habitat by Establishing and Observing Exclusion Zones around Vernal Pools and Hydrologically Connected Areas</p> <p>Mitigation Measure B-8: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p>	•			•	•	•			

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<p>Impact: Possible Disturbance to Blunt-Nosed Leopard Lizard Habitat</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-14: Avoid Blunt-Nosed Leopard Lizard Habitat by Conducting Preconstruction Searches for Burrows and Implementing Protection Measures, If Necessary</p> <p>Mitigation Measure B-15: Avoid Blunt-Nosed Leopard Lizard Burrows by Establishing and Observing Exclusion Zones Around Burrows</p> <p>Mitigation Measure B-16: Construct in Blunt-Nosed Leopard Lizard Habitat during the Lizard's Active Season</p>					•				

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<p>Impact: Possible Disturbance to Coachella Valley Fringe-Toed Lizard and Its Habitat</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-17: Avoid Potentially Occupied Coachella Valley Fringe-Toed Lizard Habitat by Establishing and Observing Exclusion Zones</p>							•		
<p>Impact: Possible Disturbance to Flat-Tailed Horned Lizard and Its Habitat</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-18: Implement the Flat-Tailed Horned Lizard Rangewide Management Strategy</p>							•		

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<p>Impact: Possible Disturbance to Desert Tortoise and Its Habitat</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-19: Avoid Desert Tortoise Burrows by Conducting Preconstruction Searches and Implementing Protection Measures, If Necessary</p> <p>Mitigation Measure B-20: Avoid Desert Tortoise Burrows by Establishing and Observing Exclusion Zones</p>						<ul style="list-style-type: none"> • 			

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<p>Impact: Construction Activities near Areas with Potentially Active Nonlisted Special-Status Raptor Nests and Other Potential Nesting Habitat</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-21: Avoid Disturbing Active Special-Status Raptor Nests</p>	<p>•</p>	<p>•</p>		<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	
<p>Impact: Possible Disturbance of Active Swainson’s Hawk Nests</p> <p>Mitigation Measure B-1: - Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-22: Avoid Disturbing Active Swainson’s Hawk Nests by Establishing and Observing Buffer Zones</p>	<p>•</p>	<p>•</p>		<p>•</p>	<p>•</p>				

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<p>Impact: Possible Disturbance to Active Northern Spotted Owl Nests</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-23: Avoid Disturbing Northern Spotted Owl Nests by Constructing During the Non-Breeding Season or by Establishing and Observing Buffer Zones Around Active Nests</p>	<ul style="list-style-type: none"> • 								
<p>Impact: Possible Disturbance to Active California Spotted Owl and Northern Goshawk Nests</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-24: Avoid Disturbing California Spotted Owl and Northern Goshawk Nests by Establishing and Observing Buffer Zones and Avoid Construction Activities During the Breeding Season</p>	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 							

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<p>Impact: Construction Activities in Areas near Potential Active Burrowing Owl Nests</p> <p>Mitigation Measure B-1: Retain Qualified Biologists or Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-25: Avoid Disturbing Active Burrowing Owl Nests and Implement Standard DFG Guidelines during the Nonbreeding Season</p>	<p>•</p>	<p>•</p>		<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	
<p>Impact: Construction Activities Near Areas that are Habitat for California Condors</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p>					<p>•</p>				

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<p>Impact: Temporary Construction Activities in Areas That are Potential Habitat for Willow Flycatcher and Least Bell's Vireo</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-8: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p> <p>Mitigation Measure B-26: Avoid Noise Disturbance near Occupied Least Bell's Vireo Habitat during the Nesting Season, and Implement Protection Measures, If Necessary</p> <p>Mitigation Measure B-27: Avoid Noise Disturbance near Occupied Willow Flycatcher Habitat during the Nesting Season and Implement Protection Measures, If Necessary</p>		•			•	•	•		

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<p>Impact: Temporary Construction Activities Near Areas that are Potential Nesting Habitat for California Gnatcatcher</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions Before Construction</p> <p>Mitigation Measure B-28: Avoid Occupied California Gnatcatcher Habitat During the Nesting Season, and Implement Protection Measures, If Necessary</p>							<ul style="list-style-type: none"> • 		

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<p>Impact: Possible Disturbance to Kit Fox Den and Their Habitat</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-29: Avoid San Joaquin Kit Fox Dens by Conducting Preconstruction Searches and Implementing Protection Measures, If Necessary</p> <p>Mitigation Measure B-30: Avoid San Joaquin Kit Fox Dens by Establishing and Observing Exclusion Zones</p>					<ul style="list-style-type: none"> • 				
<p>Impact: Possible Disturbance to Active Special-Status Kangaroo Rat Burrows and Their Habitat</p> <p>Mitigation Measure B-31: Avoid Giant, Tipton, and Morro Bay Kangaroo Rat Burrows by Conducting Preconstruction Surveys and Implement Protection Measures, If Necessary</p> <p>Mitigation Measure B-32: Avoid Giant, Tipton, and Morro Kangaroo Rat Burrows by Establishing and Observing Exclusion Zones</p>					<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 			

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<p>Impact: Possible Disturbance to Active Stephens' Kangaroo Rat Burrows</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-33: Avoid Stephens' and Pacific Kangaroo Rat Burrows by Conducting Preconstruction Searches and Implementing Protection Measures, If Necessary</p> <p>Mitigation Measure B-34: Avoid Stephens' Kangaroo Rat Burrows by Establishing and Observing Exclusion Zones</p>							<ul style="list-style-type: none"> • 		

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<p>Impact: Possible Disturbance to Active San Joaquin Antelope Ground Squirrel Burrows</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-35: Avoid San Joaquin Antelope Ground Squirrel Burrows by Conducting Preconstruction Searches and Implementing Protection Measures, If Necessary</p> <p>Mitigation Measure B-36: Avoid San Joaquin Antelope Ground Squirrel Burrows by Establishing and Observing Exclusion Zones</p>					•				

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<p>Impact: Construction Activities Near Active Breeding Sites for Northern Harrier, Snowshoe Hare, White-Tailed Jackrabbit, Sierra Nevada Mountain Beaver, and American Badger</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-37: Avoid Disturbance to Northern Harrier, Snowshoe Hare, White-Tailed Jackrabbit, Sierra Nevada Mountain Beaver, and American Badger by Conducting Preconstruction Surveys and Establishing No-Disturbance Buffers</p>	<p>•</p>	<p>•</p>		<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	
<p>Impact: Construction Activities on Bridges that are Nesting Habitat for Swallows</p> <p>Mitigation Measure B-38: Avoid Disturbance to Nesting Swallows by Implementing Timing Restrictions, Removing Nests, and Installing Mesh Netting</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>

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<p>Impact: Construction Activities in Areas Near Bat Maternity Roosting Sites</p> <p>Mitigation Measure B-1: Retain Qualified Biologists or Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions Before Construction</p> <p>Mitigation Measure B-8: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p> <p>Mitigation Measure B-39: Avoid Bat Maternity Roost by Postponing Bridge Attachments</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>
<p>Impact: Possible Disturbance of Other Special-Status Wildlife Species</p> <p>Mitigation: None required because the impact is absent or less than significant.</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>

Table S-2. Summary of Impacts and Mitigation Measures

<p>Impact and Mitigation by Resource Area</p>	<p>Point Arena to Sacramento</p>	<p>Sacramento to Calif./Nevada Border</p>	<p>San Francisco to Santa Clara</p>	<p>Pittsburgh to Sacramento</p>	<p>San Luis Obispo to Bakersfield</p>	<p>San Luis Obispo to Los Osos Loop</p>	<p>Riverside to California/Arizona Border</p>	<p>Los Angeles to Riverside</p>	<p>Los Angeles to Anaheim</p>
<p>Impact: Temporary Construction Activities in Streams that Support Threatened, Endangered, and Special-Status Fish Species</p> <p>Mitigation Measure B-1: Retain Qualified Biologists or Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions before Construction</p> <p>Mitigation Measure B-5: Confine Construction Equipment and Associated Activities to the Project Routes in Areas That Support Sensitive Resources</p> <p>Mitigation Measure B-8: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p> <p>Mitigation Measure B-40: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages</p> <p>Mitigation Measure B-41: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities</p> <p>Mitigation Measure F-1: Avoid In-Water Construction in All Flowing Streams That Support Sensitive Fish Species at or below the Crossing Location</p>	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> •

Table S-2. Summary of Impacts and Mitigation Measures

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<p>Impact: Possible Removal or Disturbance of Woody Riparian Vegetation</p> <p>Mitigation Measure B-1: Retain Qualified Biologists or Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-5: Confine Construction Equipment and Associated Activities to the Project Routes in Areas That Support Sensitive Resources</p> <p>Mitigation Measure B-8: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p> <p>Mitigation Measure B-40: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages. Refer to the discussion of this mitigation measure earlier in this section.</p> <p>Mitigation Measure B-41: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Disturbed during Construction Activities</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>
<p>Impact: Possible Disturbance of Sensitive Biological Resources from the Use of Staging Areas outside the Delineated Proposed Project Study Area and Not within Previously Paved or Graveled Areas</p> <p>Mitigation Measure B-42: Survey Proposed Staging Areas before Construction and Implement Avoidance Measures, if Required</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>

Table S-2. Summary of Impacts and Mitigation Measures

<p>Impact and Mitigation by Resource Area</p>	<p>Point Arena to Sacramento</p>	<p>Sacramento to Calif./Nevada Border</p>	<p>San Francisco to Santa Clara</p>	<p>Pittsburgh to Sacramento</p>	<p>San Luis Obispo to Bakersfield</p>	<p>San Luis Obispo to Los Osos Loop</p>	<p>Riverside to California/Arizona Border</p>	<p>Los Angeles to Riverside</p>	<p>Los Angeles to Anaheim</p>
<p>Impact: Short-Term Direct Disturbance of Waters of the United States (Including Wetland Communities)</p> <p>Mitigation Measure B-1: Retain Qualified Biologists or Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-5: Confine Construction Equipment and Associated Activities to the Project Routes in Areas That Support Sensitive Resources</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>
<p>Mitigation Measure B-41: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities</p> <p>Mitigation Measure B-43: Minimize Disturbance and Restore Other Waters of the United States to Preproject Conditions</p> <p>Mitigation Measure B-44: Minimize Disturbance and Restore Jurisdictional Wetlands to Preproject Conditions</p> <p>Mitigation Measure B-45: Avoid and Protect Specified Jurisdictional Wetlands Adjacent to Construction Areas</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>

Table S-2. Summary of Impacts and Mitigation Measures

<p>Impact and Mitigation by Resource Area</p>	<p>Point Arena to Sacramento</p>	<p>Sacramento to Calif./Nevada Border</p>	<p>San Francisco to Santa Clara</p>	<p>Pittsburgh to Sacramento</p>	<p>San Luis Obispo to Bakersfield</p>	<p>San Luis Obispo to Los Osos Loop</p>	<p>Riverside to California/Arizona Border</p>	<p>Los Angeles to Riverside</p>	<p>Los Angeles to Anaheim</p>
<p>Impact: Possible Temporary Disturbances to Wildlife Movements</p> <p>Mitigation Measure B-8: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p> <p>Mitigation Measure B-13: Avoid Disturbance to Special-Status Reptiles and Amphibians by Boring Under Streams or Constructing Barrier Fencing and Relocating Animals During Construction</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>
<p>Impact: Possible Wildlife Entrapment in Open Trenches</p> <p>Mitigation Measure B-46: Fill or Cover Open Trenches</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>
<p>Impact: Possible Temporary Disturbance of Common Wildlife Species</p> <p>Mitigation Measure: Mitigation is incorporated in the design and construction approach.</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>

Table S-2. Summary of Impacts and Mitigation Measures

<p>Impact and Mitigation by Resource Area</p>	<p>Point Arena to Sacramento</p>	<p>Sacramento to Calif./Nevada Border</p>	<p>San Francisco to Santa Clara</p>	<p>Pittsburgh to Sacramento</p>	<p>San Luis Obispo to Bakersfield</p>	<p>San Luis Obispo to Los Osos Loop</p>	<p>Riverside to California/Arizona Border</p>	<p>Los Angeles to Riverside</p>	<p>Los Angeles to Anaheim</p>
<p>Impact: Possible Temporary Increases in Sedimentation and Turbidity Possibly Affecting Fish</p> <p>Mitigation Measure B-1: Retain Qualified Biologists or Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-5: Confine Construction Equipment and Associated Activities to the Project Routes in Areas That Support Sensitive Resources</p> <p>Mitigation Measure B-40: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages</p> <p>Mitigation Measure B-41: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities</p> <p>Mitigation Measure B-43: Minimize Disturbance and Restore Other Waters of the United States to Preproject Conditions</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>
<p>Mitigation Measure F-1: Avoid in-Water Construction in All Flowing Streams That Support Sensitive Fish Species at or below the Crossing Location</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>

Table S-2. Summary of Impacts and Mitigation Measures

Impact and Mitigation by Resource Area	Point Arena to Sacramento	Sacramento to Calif./Nevada Border	San Francisco to Santa Clara	Pittsburgh to Sacramento	San Luis Obispo to Bakersfield	San Luis Obispo to Los Osos Loop	Riverside to California/Arizona Border	Los Angeles to Riverside	Los Angeles to Anaheim
<p>Impact: Possible Short-Term Disturbance of Fish Habitat</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Education Program for Construction Crews and Enforce Construction Restrictions Before Construction</p> <p>Mitigation Measure B-40: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages</p> <p>Mitigation Measure B-41: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities</p> <p>Mitigation Measure B-43: Minimize Disturbance and Restore Other Waters of the United States to Preproject Conditions</p> <p>Mitigation Measure F-1: Avoid in-Water Construction in All Flowing Streams That Support Sensitive Fish Species at or below the Crossing Location</p>	•	•	•	•	•	•	•	•	•

Table S-2. Summary of Impacts and Mitigation Measures

Impact and Mitigation by Resource Area	Point Arena to	Sacramento to Calif./Nevada Border	Santa Clara	Pittsburgh to	San Luis Obispo to Bakersfield	Los Osos Loop	Riverside to California/	Los Angeles to Riverside	
<p>Impact: Possible Short-Term Degradation of Fish Habitat from</p> <p>Mitigation Measure B-1: Retain Qualified Biologists and Specified Sensitive Biological Areas</p> <p>Mitigation Measure B-2: Education Program for Construction Crews and Enforce Construction Restrictions Before Construction</p>		•	•		•	•		•	•
<p>Possible Effects on Fish from Accidental Spills of Toxic Substances during Construction</p> <p>Retain Qualified Biologists and Resource Specialists to Monitor Construction Activities near</p> <p>Mitigation Measure B-2: Conduct a Biological Resource Construction Restrictions before Construction</p>	•		•	•		•	•		•

Table S-2. Summary of Impacts and Mitigation Measures

Impact and Mitigation by Resource Area	Point Arena to Sacramento	Sacramento to Calif./Nevada Border	San Francisco to Santa Clara	Pittsburgh to Sacramento	San Luis Obispo to Bakersfield	San Luis Obispo to Los Osos Loop	Riverside to California/Arizona Border	Los Angeles to Riverside	Los Angeles to Anaheim
Cultural Resources									
<p>Impact: Possible Long-Term Disturbance of Cultural Resource Sites</p> <p>Mitigation Measure C-1: Develop and Implement Avoidance Procedures</p> <p>Mitigation Measure C-2: Develop and Implement Cultural Resources Monitoring Plan</p> <p>Mitigation Measure C-3: Conduct Test Excavation to Determine Resources Significance, and if Significant, Conduct Data Recovery Excavation</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Indirect Impact on Historic Structures from Siting of Regenerator/OP-AMP Sites</p> <p>Mitigation Measure C-4: Site Regenerator/OP-AMP Facilities to Avoid Setting Impacts on Significant and Potentially Significant Resources</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Long-Term Damage to Unidentified Buried Cultural Resource Sites from Ground-Disturbing Activities</p> <p>Mitigation Measure C-5: Stop Work If Cultural Resources Are Discovered during Ground-Disturbing Activities</p>	•	•	•	•	•	•	•	•	•

Table S-2. Summary of Impacts and Mitigation Measures

Impact and Mitigation by Resource Area	Point Arena to Sacramento	Sacramento to Calif./Nevada Border	San Francisco to Santa Clara	Pittsburgh to Sacramento	San Luis Obispo to Bakersfield	San Luis Obispo to Los Osos Loop	Riverside to California/Arizona Border	Los Angeles to Riverside	Los Angeles to Anaheim
<p>Impact: Possible Disturbance to Paleontological Resources during Construction</p> <p>Mitigation Measure C-6: Retain a Qualified Paleontologist to Oversee Construction Activities and Prepare a Report</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Long-Term Damage to Previously Unidentified Human Remains on Federal or Nonfederal Land from Ground-Disturbing Activities</p> <p>Mitigation Measure C-7: Comply with State and Federal Laws Pertaining to the Discovery of Human Remains</p>	•	•	•	•	•	•	•	•	•
Geology and Soils									
<p>Impact: Possible Temporary Damage to the Cable System from Earthquake-Induced Strong Ground Shaking</p> <p>Mitigation: None required because the impact is absent or less than significant.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Temporary Damage to the Cable System from Earthquake Fault Displacement</p> <p>Mitigation: None required because the impact is absent or less than significant.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Temporary Damage to the Cable System from Earthquake-Induced Liquefaction</p> <p>Mitigation: None required because the impact is absent or less than significant.</p>	•	•	•	•	•	•	•	•	•

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Impact and Mitigation by Resource Area	Point Arena to Sacramento	Sacramento to Calif./Nevada Border	San Francisco to Santa Clara	Pittsburgh to Sacramento	San Luis Obispo to Bakersfield	San Luis Obispo to Los Osos Loop	Riverside to California/Arizona Border	Los Angeles to Riverside	Los Angeles to Anaheim
<p>Impact: Possible Long-Term Slope Mass Failure</p> <p>Mitigation: None required because the impact is absent or less than significant.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Temporary Accelerated Erosion and Sedimentation from Soil Disturbance and Vegetation Removal</p> <p>Mitigation: Mitigation is incorporated in the design and construction approach.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Potential Damage to the Cable System from Seasonal Soil Expansion and Contraction</p> <p>Mitigation: Mitigation is incorporated in the design and construction approach.</p>	•	•	•	•	•	•	•	•	•

Table S-2. Summary of Impacts and Mitigation Measures

Impact and Mitigation by Resource Area	Point Arena to	Sacramento to Calif./Nevada Border	Santa Clara	Pittsburgh to	San Luis Obispo to Bakersfield	Los Osos Loop	Riverside to California/	Los Angeles to Riverside	
Hazards and Hazardous Materials									
<p>Impact: Hazardous Materials during Construction</p> <p>Mitigation Measure H-1: Handling, and Use of Hazardous Materials</p>	•		•	•		•	•		•
<p>Impact: Hazardous Materials Sites</p> <p>Mitigation Measure: construction approach.</p>	•		•	•		•	•		•
<p>Impact:</p> <p>Mitigation Measure: Mitigation is incorporated in the design and</p>	•	•		•	•		•	•	
<p>Impact: Possible Temporary Exposure of People or Structures to</p> <p>Mitigation Measure: Mitigation is incorporated in the design and</p>	•	•		•	•		•	•	
Hydrology and Water Quality									
<p>Impact: Waterbodies</p> <p>Mitigation Measure: construction approach.</p>	•		•	•		•	•		•

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Impact and Mitigation by Resource Area	Point Arena to Sacramento	Sacramento to Calif./Nevada Border	San Francisco to Santa Clara	Pittsburgh to Sacramento	San Luis Obispo to Bakersfield	San Luis Obispo to Los Osos Loop	Riverside to California/Arizona Border	Los Angeles to Riverside	Los Angeles to Anaheim
<p>Impact: Possible Temporary Disruption of Bed and Bank Sediments in Channels during Conduit and Cable Installation</p> <p>Mitigation Measure: Mitigation is incorporated in the design and construction approach.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Long-Term In-Channel Erosion and Deposition from Decreased Channel Stability</p> <p>Mitigation Measure: Mitigation is incorporated in the design and construction approach.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Temporary Degraded Water Quality from Accidental Spills of Hazardous Materials during Construction</p> <p>Mitigation Measure: Mitigation is incorporated in the design and construction approach.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Temporary Water Quality Degradation and Siltation from Accidental Seepage of Bentonite into Streams</p> <p>Mitigation Measure: Mitigation is incorporated in the design and construction approach.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Possible Increased Flood Hazards from Possible Placement of Regenerator/OP-AMP Stations within the Floodplain</p> <p>Mitigation Measure: None required because the impact is absent or less than significant.</p>	•	•	•		•		•	•	

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Land Use and Planning									
<p>Impact: Possible Conflict with Local Land Use Plans</p> <p>Mitigation Measure LU-1: Obtain and Comply with Local Zoning Permits</p>	•	•	•	•	•	•	•	•	•
Mineral Resources									
<p>Impact: Possible Conflict with Future Mineral Exploration and Access to Resource Sites</p> <p>Mitigation Measure: None required because the impact is absent or less than significant.</p>	•	•	•	•	•	•	•	•	•
Noise									
<p>Impact: Temporary Exposure of Residences and Other Sensitive Receptors to Construction Noise in Excess of Local Standards</p> <p>Mitigation Measure N-1: Employ Noise-Reducing Construction Practices</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Temporary Exposure of Residences or Other Sensitive Receptors to High Noise Levels from Helicopter Operation That Could Exceed Local Noise Ordinance Criteria</p> <p>Mitigation Measure N-2: Limit Use of Helicopters near Residences and Other Sensitive Land Uses</p>									

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<p>Impact: Temporary Exposure of Residences or Other Sensitive Uses to Localized Groundborne Vibration and Noise</p> <p>Mitigation Measure: None required because the impact is absent or less than significant.</p>	•	•	•	•	•	•	•	•	•
<p>Impact: Exposure of Nearby Sensitive Receptors to Excessive Noise Levels from Use of Emergency Backup Generators and Other Support Equipment at Regenerator/OP-AMP Stations</p> <p>Mitigation Measures N-3: Design and Locate Emergency Backup Generators and Other Support Equipment to Limit Noise from the Engine Generator</p>	•	•	•		•		•	•	
Population and Housing - no impacts would occur.									
Public Services - no impacts would occur.									
Recreation									
<p>Impact: Possible Temporary Disruption of Hunting Opportunities</p> <p>Mitigation Measure: None required because the impact is absent or less than significant.</p>	•	•	•	•	•	•	•	•	•

Table S-2. Summary of Impacts and Mitigation Measures

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Transportation/Traffic									
Impact: Way Mitigation Measure T-1: State Road Encroachment Permits	•		•	•		•	•		•
Impact: Mitigation Measure: None required because the impact is absent	•	•		•	•		•	•	
Impact: Temporary Increase in Accident Risk Obtain and Comply with Local and State Road Encroachment Permits		•	•		•	•		•	•
Temporary Effects on Traffic Flow Mitigation Measure T-1: State Road Encroachment Permits	•		•	•		•	•		•
Impact: Mitigation Measure T-1: Obtain and Comply with Local and	•	•		•	•		•	•	
Utilities and Service Systems - no impacts would occur.									