



EAST COUNTY SUBSTATION PROJECT MINOR PROJECT REFINEMENT REQUEST FORM

Date Submitted:	06-27-13	Request #:	5
Date Approval Required:	07-11-13	Landowner:	[This information has been redacted due to its confidential nature]
APN:	[This information has been redacted due to its confidential nature]		
Refinement from (check all that apply):			
<input type="checkbox"/> Mitigation Measure	<input type="checkbox"/> APM	<input checked="" type="checkbox"/> Project Description	<input type="checkbox"/> Drawing
Identify source (mitigation measure, project description, etc.):			
<p>Pages B-15 through B-17, B-26 and B-27, and Figures B-14 A of Section B. Project Description of the Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the East County Substation Project (Project) describe and depict the Boulevard Substation rebuild site and the temporary and permanent footprints associated with construction of the substation. The information in this Minor Project Refinement (MPR) request describes proposed refinements associated with the Boulevard Substation rebuild site based on final Project design. A description of the refinements is provided on page 2 of this MPR request.</p>			
Attachments (check all that apply):			
<input checked="" type="checkbox"/> Refinement Screening Form (provided as Attachment A: Minor Project Refinement Request Screening Form)	<input checked="" type="checkbox"/> Photos (provided as Attachment B: Photographs)	<input checked="" type="checkbox"/> Maps (provided as Attachment C: Boulevard Substation Site Comparison Map; Attachment D: Boulevard Substation Survey Results Map)	<input checked="" type="checkbox"/> Other (Attachment E: EIR/EIS Study Area Table; Attachment F: Refinements Table)
Under Order 3 of the Decision Granting SDG&E Permit to Construct the East County Substation Project (D.12-04-022), the CPUC may approve minor project refinements under certain circumstances. In accordance with Order 3 of the Decision, respond “yes” or “no” to the following questions (a) through (d).			
<p>(a) Is the proposed refinement outside the geographic boundary of the EIR/EIS study area? No. The proposed Boulevard Substation rebuild site is located within the geographic extent of the EIR/EIS study area, which is summarized in Attachment E: EIR/EIS Study Area Table. Biological, drainage, and cultural surveys of the Boulevard Substation rebuild site were included in the Final EIR/EIS analysis. Attachment C: Boulevard Substation Site Comparison Map depicts the approved permanent footprint of the Boulevard Substation rebuild site, as well as the proposed expansion and minor refinements that are included in this MPR request. Attachment D: Boulevard Substation Survey Results Map depicts the boundaries of the areas that were surveyed for various resources in the Project vicinity.</p>			
<p>(b) Will the proposed refinement result in a new significant impact or a substantial increase in the severity of a previously identified significant impact based on the criteria used in the EIR/EIS? No. Attachment A: Minor Project Refinement Request Screening Form provides a detailed assessment.</p>			
<p>(c) Does the proposed refinement conflict with any mitigation measure or applicable law or policy? No.</p>			
<p>(d) Does the proposed refinement trigger an additional permit requirement? No. Construction of the Boulevard Substation rebuild site was contemplated in Section B. Project Description of the Final EIR/EIS. No additional permits will be required that were not already considered. As stated in the Final EIR/EIS, a few special-status wildlife species—such as coastal western whiptail (<i>Cnemidophorus tigris multiscutatus</i>), rosy boa (<i>Lichanura</i></p>			

trivirgata), Blainville's horned lizard (*Phrynosoma blainvillii*), dulzura pocket mouse (*Perognathus californicus femoralis*), and San Diego desert woodrat (*Neotoma lepida intermedia*)—have the potential to occur within the surrounding area of the Boulevard Substation rebuild site; however, all of these species were formerly identified and analyzed in previous wildlife surveys conducted for the Project. Because the requested refinements are located within a previously disturbed site, they will not result in any loss of habitat. One individual rare plant—Jacumba milk-vetch (*Astragalus douglasii var. perstrictus*)—will be removed as a result of the requested refinements; however, impacts to this species were already analyzed in the Final EIR/EIS. A reduction of less than 0.01 acre of temporary impacts and an increase of approximately 0.03 acre of permanent impacts to California Department of Fish and Wildlife- (CDFW-) jurisdictional drainages will occur as a result of the requested refinements, including the installation of a new culvert, widening of the swale, and installation of the splash berm. The requested refinements will result in the reduction of approximately 0.01 acre of temporary impacts and an increase of less than 0.01 acre of permanent impacts to United States Army Corps of Engineers- (USACE-) jurisdictional drainages. SDG&E will coordinate with the CDFW, USACE, and Colorado River Basin Regional Water Quality Control Board (RWQCB) to inform them of the changes that will occur to jurisdictional resources and will modify and amend permits, if necessary, following the completion of the final design for the whole Project.

Describe refinement being requested (attach drawings and photos as needed):

The Boulevard Substation rebuild site was described on Page B-15 in Section B. Project Description of the Project's Final EIR/EIS. The description states that approximately 3.2 acres of the site—including the fenced substation, an approximately 10-foot buffer around the perimeter of the substation, slope and grading impacts, and access to the substation from Old Highway 80—would be permanently impacted. As part of this MPR request and as a result of the final design, SDG&E will increase the permanent footprint of the Boulevard Substation rebuild site by approximately 10 feet on the south and east sides of the approved substation footprint, resulting in an increase to the permanent footprint of approximately 0.19 acre. In addition, SDG&E will install a retaining wall, widen the swale located on the western side of the site, and replace the culvert under Old Highway 80. These refinements will increase the approved permanent footprint by approximately 0.20 acre. A water tank will also be installed at the site, resulting in an additional permanent footprint of approximately 0.03 acre. Therefore, the proposed refinements will result in a total permanent impact increase of approximately 0.42 acre. Two fire walls will also be installed adjacent to the 138/69kV and 138/12kV transformers within the previously approved permanent footprint. Attachment B: Photographs and Attachment C: Boulevard Substation Site Comparison Map depict the locations of the approved and requested Boulevard Substation refinements. These refinements are summarized in Attachment F: Refinements Table and are described further in the paragraphs that follow.

The retaining wall will have a maximum height of approximately 7.5 feet and will be installed along approximately 205 feet of the western side, wrapping around the southern side of the Boulevard Substation rebuild site, as shown in Attachment C: Boulevard Substation Site Comparison Map. The retaining wall is proposed to be a block-gravity wall manufactured by Inter-Block Retaining Systems. Its surface will be treated such that it will blend in with the surrounding landscape, in accordance with the Project's Surface Treatment Plan.

The existing swale located along the western edge of the site will be expanded and widened further. The sides and bottom of the swale will be graded and improved with a pervious grass and concrete-block lined system to create a semi-naturalized channel. An engineered earthen splash berm, located in the southwestern quadrant of the property, as shown in Attachment C: Boulevard Substation Site Comparison Map, will also be constructed. The splash berm will measure approximately 14 feet by 180 feet and will be approximately three feet high. In addition, a new culvert will replace the existing undersized culvert under Old Highway 80 where the swale crosses under the road. Rip-rap will also be installed in the swale on the north side of the culvert.

Curb and grade improvements to the substation's access road design will include widening the access road at its intersection with Old Highway 80.

The fire walls will be constructed on drilled-shaft piers either out of prefabricated panels or poured-in-place concrete. The dimensions of the fire walls will be such that the vertical height will extend three feet above the highest oil-containing part of the transformers, and one foot wider than the containment pits at each end. The approximate dimensions of the southern fire wall, to be installed for the 138/69 kV transformer will be 41.25 feet wide by 28.25 feet tall. The approximate dimensions of the northern fire wall, to be installed for the 138/12kV transformer, will be 37.25 feet wide by 17.25 feet tall. The walls will be located on the north and south sides of the substation between the transformers and the substation fence. The surface of the fire walls will be treated such that it will blend in with the surrounding landscape, in accordance with the Project's Surface Treatment Plan.

The water tank will have a capacity of 16,900 gallons of water, and will be stationed at the southeast corner of the Boulevard Substation rebuild site along the existing access road on the east side of the property. An approximately 12-foot-wide drive lane, surfaced with Class II base, will be built around the water tank for access. Class II base will also be installed over the existing access road to accommodate safe access for fire trucks to the water tank. The water tank will measure approximately 12 feet in diameter and 17 feet in height. The exterior surface of the water tank will be treated such that it will blend in with the surrounding landscape, in accordance with the Project's Surface Treatment Plan.

The activities associated with the construction and utilization of the requested refinement areas will be consistent with those described in the Final EIR/EIS for construction, operation, and maintenance of the Project. Construction of the requested refinements will not require additional equipment beyond what was analyzed in the Final EIR/EIS, nor will it change the Project's construction schedule. In addition, as described in Attachment A: Minor Project Refinement Request Screening Form, the requested refinements will result in reduced impacts to public health and safety, fire and fuels management, and water resources from what was described in the Final EIR/EIS.

Provide need for refinement (attach drawings and photos as needed):

MPR request #5 is a result of the final Boulevard Substation rebuild site design that was developed based on the design presented in the Final EIR/EIS. As depicted in Section 3.7.6 of the Working Draft Proponent's Environmental Assessment Checklist for Transmission Line and Substation Projects (Public Utilities Commission, San Francisco Energy Division Director's Office, October 2008), SDG&E proceeded with developing the final design after the Permit to Construct decision and after all necessary permits and right-of-way (ROW) acquisition was complete. As a result, minor refinements to the location and estimates presented in the Final EIR/EIS were necessary, as described in this MPR request. The refinements incorporate specific input from SDG&E's contractor, requests and requirements from resource agencies and San Diego County, landowner agreements, and site-specific requirements.

A list of refinements and the reason for them is included in Attachment F: Refinements Table. In summary, the expansion of the permanent footprint along the southern and eastern sides of the Boulevard Substation rebuild site is needed to implement final engineering and slope stabilization requirements. The initial design was developed with 1.5-to-one cut slopes. As the design evolved, the 1.5-to-1 cut slopes proved not to provide the necessary stability against erosion and failure; therefore, the cut of the slopes will need to be constructed at a shallower two-to-one ratio to reduce erosion and instability. The slope stabilization improvements will require an extension of the permanent footprint by approximately 10 feet on the south and east cut slopes of the substation. Due to the existing drainage swale on the western edge of the substation site preventing an expanded footprint, a retaining wall will be constructed to allow for the slope to be developed at a two-to-one ratio.

The proposed drainage swale widening along the western edge of the Boulevard Substation rebuild site is required to accommodate a partially vegetated lined system. This system is necessary to accommodate the calculated high velocity of storm water flow during a 100-year storm event. The final hydrology analysis of the Boulevard Substation rebuild site indicated that an engineered splash wall or berm will be required across the southwest quadrant of the property to direct off-site storm water flow into the drainage swale located along the west side of the site. An existing earthen berm is located in the general area of the proposed berm; however, it is undersized and does not meet 100-year storm event design requirements. The proposed berm will maintain the pre-existing surface storm water flow pattern and prevent flooding of the Boulevard Substation rebuild site during a 100-year storm event.

The existing culvert that crosses Old Highway 80 is undersized and does not meet current County of San Diego (County) standards and design requirements. The County requires the culvert be designed and constructed to accommodate a 100-year storm event to reduce the potential for impacting Old Highway 80 with flooding or creating erosion at downstream properties.

The proposed widening of the access road at its intersection with Old Highway 80 is necessary to meet San Diego County curb/grade permit standards for width, taper, and radius of the road apron. The final access road design is currently undergoing County review.

The two fire walls are being installed to increase public safety in the event of a transformer fire. The fire walls will increase protection in the event that someone from the public is on the property and near the fence when a transformer fire occurs. The water tank to be installed on the southeastern portion of the property is also being implemented to increase public safety. The water tank is required to implement the Project's operational Fire Protection Plan (FPP). In accordance with Section 4a of the FPP, the water tank is necessary for use on potential

fires at the future Boulevard Substation or within the surrounding Boulevard community, and must contain a recommended minimum of 15,000 gallons for use during a potential oil fire.

Date refinement is expected to be implemented:	07-11-13
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SDG&E Approvals

Title	Name	Approval Initials	Date	Conditions (see attached)	
Project Manager	Don Houston			<input type="checkbox"/> Yes	<input type="checkbox"/> No
Environmental Manager	Kirstie Reynolds			<input type="checkbox"/> Yes	<input type="checkbox"/> No
Project Manager	Matt Huber			<input type="checkbox"/> Yes	<input type="checkbox"/> No
Environmental Field Supervisor	Jeffry Coward			<input type="checkbox"/> Yes	<input type="checkbox"/> No
Cultural Resource Specialist	Nicole Morgan			<input type="checkbox"/> Yes	<input type="checkbox"/> No
Land Advisor	Pete McMorris			<input type="checkbox"/> Yes	<input type="checkbox"/> No

Landowner Approval (if required)

Landowner Name	Signature or Other Consent
[This information has been redacted due to its confidential nature]	[This information has been redacted due to its confidential nature]
[This information has been redacted due to its confidential nature]	[This information has been redacted due to its confidential nature]

Resource Agency Coordination

Resource Agency	Name	Action Required	Date	Documentation (see attached if yes)	
CDFW	Eric Weiss	Notification or Minor Amendment	To Be Determined (TBD)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No, documentation will be provided separately
USACE	Shanti Santulli	Notification or Permit Modification	TBD	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No, documentation will be provided separately
Colorado River Basin RWQCB	Jay Mirpour	Notification or Amendment	TBD	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No, documentation will be provided separately
Bureau of Land Management	Carrie Simmons	Section 106 Consultation	TBD	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No, documentation will be provided separately

ATTACHMENT A: MINOR PROJECT REFINEMENT REQUEST SCREENING FORM

MINOR PROJECT REFINEMENT REQUEST SCREENING FORM

RESOURCE EVALUATION

The proposed Minor Project Refinement request was evaluated to verify that it will not result in a new significant impact or a substantial increase in the severity of a previously identified significant impact based on the criteria used in the Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS). The following table provides a brief summary of the potential impact for each resource area analyzed in the Final EIR/EIS.

EIR/EIS Section	Summary of Potential Impacts
Visual Resources	<p><i>No Change.</i> The proposed increase in the footprint of the Boulevard Substation rebuild site could contribute to visual resource impacts; however, with the implementation of the Boulevard Substation Landscaping Plan, all disturbed terrain at the Boulevard Substation rebuild site will be recontoured and vegetated. In addition, as discussed in the Final EIR/EIS, implementation of Mitigation Measures VIS-3b, VIS-3f, VIS-3g, and VIS-3h—which include reducing construction night-lighting impacts, revegetating temporarily disturbed areas, and screening and reducing visual contrast of the substation and ancillary facilities—will ensure that temporary visual impacts from the requested refinements at the Boulevard Substation rebuild site will be less than significant.</p> <p>The proposed earthen splash berm, water tank, fire walls, and retaining wall were not included in the original analysis of impacts to visual resources and have the potential to increase the permanent visual impacts of the Boulevard Substation rebuild site. The proposed splash berm will measure approximately 180 feet in length and approximately three feet in height; the proposed water tank will measure approximately 12 feet in diameter and 17 feet in height; the retaining wall will have a maximum height of approximately 7.5 feet; and the fire walls will measure approximately 28.25 feet and 17.25 feet high. In accordance with the East County Substation Project’s (Project’s) Surface Treatment Plan, each of these requested refinements will be surfaced such that they will blend in with the surrounding landscape. Because the refinements will be located on a previously disturbed site, there will be no adverse impact to the existing visual resources. As shown in Attachment C: Boulevard Substation Site Comparison Map, one additional ornamental tree will be removed at the Boulevard Substation rebuild site as a result of the proposed refinements; however, the tree removal will not substantially increase the visual impacts of the Boulevard Substation site.</p> <p>Impacts to short-term visibility, long-term landscape alterations, and long-term visibility when viewed from Old Highway 80 were evaluated in the Final EIR/EIS as significant but mitigable; however, the Final EIR/EIS also determined that the completed Boulevard Substation facility would be openly visible and create very strong contrasts in scale, form, and color when viewed from residences with an elevated view of the site. The tallest structure associated with the proposed refinements is southern fire wall, which measures approximately 28.25 feet tall. This is at least 11 feet shorter than the previously approved transformer A-frame, and at least 31 feet shorter than the riser structure, which is the tallest approved structure at the Boulevard Substation rebuild site. Therefore, the proposed refinements will not result in an increase impact to visual resources when compared to the other facilities already approved to be construction on the site. In addition, the construction activities associated with the proposed refinements will be consistent with the Final EIR/EIS, and any potential visual impacts from them will be minimized through implementation of applicable Project plans and mitigation measures. Thus, the proposed refinements will result in a negligible increase to the short- and long-term visual impacts. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to visual resources, which was evaluated as significant and unable to be mitigated to less than significant (Class I) when viewed from residences with an elevated view of the site in the Final EIR/EIS.</p>

EIR/EIS Section	Summary of Potential Impacts
Agriculture	<p><i>No Change.</i> As discussed in the Final EIR/EIS, the nearest occurrence of Important Farmland is located approximately 1.3 miles southwest of the Boulevard Substation rebuild site, and consists of Farmland of Local Importance. No active agricultural operations are present on the Boulevard Substation rebuild site. The activities associated with the requested Boulevard Substation refinements will not encroach onto agricultural land, nor will they restrict any agricultural activities on or near agricultural land. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to agriculture, which was evaluated as less than significant (Class III) in the Final EIR/EIS.</p>
Air Quality	<p><i>No Change.</i> Activities associated with the construction and utilization of the requested refinements will be consistent with those discussed in the Final EIR/EIS for construction of the Boulevard Substation rebuild site. As described in Impact AIR-1 in the Final EIR/EIS, Project construction will utilize heavy equipment and result in dust and exhaust emissions of criteria pollutants and toxic air contaminants. However, the Final EIR/EIS also states that construction of the Boulevard Substation rebuild site will not exceed the daily significance thresholds during construction activities.</p> <p>An additional approximately 0.42 acre of grading will be required for the refined permanent substation footprint, new access lane around the water tank, water tank footprint, and approximately 50 feet of excavation for the culvert crossing under Old Highway 80 . The resulting emissions will not substantially increase the already identified significant impact. The amount of heavy equipment utilized, the duration of use, and the number of trips needed to construct the Boulevard Substation rebuild site is not anticipated to increase beyond what was analyzed in the Final EIR/EIS. Therefore, equipment emissions and objectionable odors as a result of the refinements will also not exceed those described in the Final EIR/EIS.</p> <p>The Project-specific Dust Control Plan and Mitigation Measures AQ-1 and AQ-2—including fugitive dust control measures, reduced idling times for construction equipment, requiring cleaner engine technology, and using appropriate transport of fill materials—will be implemented for the refinement activities. The requested refinements include an expansion of the permanent footprint by approximately 10 feet on the south and east sides of the original footprint; however, this shift is not significant and will not result in additional or increased impacts to residences and sensitive receptors in proximity of the Boulevard Substation rebuild site due to its small size. As a result, the total emissions for the requested refinements will be consistent with what was analyzed in the Final EIR/EIS. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to air quality, which was evaluated as significant but able to be mitigated to less than significant (Class II) in the Final EIR/EIS.</p>
Climate Change	<p><i>No Change.</i> Activities associated with construction and utilization of the requested refinement areas will be consistent with those discussed in the Final EIR/EIS for construction of the Boulevard Substation rebuild site. As previously discussed, an additional approximately 0.42 acre of grading associated with the requested refinements will be required, as well as the installation of the culvert, splash berm, retaining wall, water tank, and fire walls. The Climate Change section of the Final EIR/EIS calculates the maximum annual construction-related greenhouse gas emissions to be approximately 9,000 metric tons of carbon dioxide equivalent (MTCO₂E) per year, which is well under the National Environmental Protection Agency threshold of 25,000 MTCO₂E per year. The amount of heavy equipment utilized, the duration of use, and the number of trips needed to construct the Boulevard Substation rebuild site is not anticipated to increase beyond what was analyzed in the Final EIR/EIS as a result of the requested refinements. Therefore, the emissions associated with the requested refinements will not trigger an exceedance of the</p>

EIR/EIS Section	Summary of Potential Impacts
	<p>greenhouse gas emissions threshold. As a result, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to climate change, which was evaluated as less than significant (Class III) in the Final EIR/EIS.</p>
<p>Biological Resources</p>	<p><i>No Change.</i> The requested refinement areas were included in the vegetation, rare plant, and wildlife surveys that were previously conducted for the Boulevard Substation rebuild site, and were addressed for impacts in the Final EIR/EIS. A few special-status wildlife species—such as coastal western whiptail (<i>Cnemidophorus tigris multiscutatus</i>), rosy boa (<i>Lichanura trivirgata</i>), Blainville’s horned lizard (<i>Phrynosoma blainvillii</i>), dulzura pocket mouse (<i>Perognathus californicus femoralis</i>), and San Diego desert woodrat (<i>Neotoma lepida intermedia</i>)—have the potential to occur within the surrounding area of the Boulevard Substation rebuild site; however, all of these species were formerly identified and analyzed in previous wildlife surveys conducted for the Project. Because the requested refinements are located within a previously disturbed site, they will not result in any loss of habitat. The Boulevard Substation rebuild site is not located within United States (U.S.) Fish and Wildlife Service-designated critical habitat areas, and wildlife movement within the refinement areas is expected to be minimal due to its disturbed state.</p> <p>Rare plant surveys were conducted for the Project between 2009 and 2012. The results of these surveys are detailed in the 2009, 2010, 2011, and 2012 Rare Plant Survey Reports for the Project. Rare plant surveys for 2013 are currently underway and will be documented in the 2013 Rare Plant Survey Reports for the Project, which will be prepared in August 2013. As shown in Attachment C: Boulevard Substation Site Comparison Map, a number of sensitive plant species were identified at the Boulevard Substation site during the 2013 rare plant pre-construction survey. The Final EIR/EIS provides that the Project could result in impacts to approximately 19 Jacumba milk-vetch, but this is an estimate and final numbers are dependent on seasonal fluctuations. Rare plants within the temporary impact areas will be avoided during construction, and only rare plants within the permanent impact area of the Boulevard Substation rebuild site will be removed. The requested refinements will necessitate the removal of only one Jacumba milk-vetch individual, as shown in Attachment C: Boulevard Substation Site Comparison Map.</p> <p>The requested refinements are located on a disturbed site, and only one ornamental tree and one rare plant individual will be removed as a result of the refinements, as shown in Attachment C: Boulevard Substation Site Comparison Map. The removal of one rare plant individual and the ornamental tree is not a substantial increase to the previously identified impact. As a result, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to biological resources, which was evaluated as significant but able to be mitigated to less than significant (Class II) in the Final EIR/EIS.</p>
<p>Cultural and Paleontological Resources</p>	<p><i>No Change.</i> The Boulevard Substation rebuild site was surveyed for archaeological materials during both pre-construction and cultural resources inventory work for the 2010 Final Report, Prehistoric Artifact Scatters, Bedrock Milling Stations, and Tin Can Dumps: Results of a Cultural Resources Study for the SDG&E East County Substation Project (Berryman and Whitaker, 2010). In addition, a supplemental archaeological survey, which included approximately 1.11 acres of approved Project areas and approximately 0.17 acre of the requested refinement areas, was conducted by ASM Affiliates on October 8, 2012 and June 19, 2013. Attachment D: Boulevard Substation Survey Results Map depicts the areas surveyed in the 2009, 2012, and 2013 surveys. Field survey methods were conducted in accordance with BLM protocols. No eligible or potentially eligible cultural resource sites were identified during the surveys, and the potential for buried resources in the requested refinement areas is considered low.</p> <p>The Boulevard Substation rebuild site was evaluated in 2009 by the San Diego Natural</p>

EIR/EIS Section	Summary of Potential Impacts
	<p>History Museum, Department of PaleoServices. No paleontological resources were identified, and the surveys classified the paleontological sensitivity at the Boulevard Substation rebuild site as zero to low. Because the Boulevard Substation rebuild site contains no known paleontological resources, and is located within a disturbed site, the requested refinements will not impact paleontological resources.</p> <p>The requested refinements do not occur in the vicinity of any known cultural or paleontological resources. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to cultural and paleontological resources, which were evaluated as significant but able to be mitigated to less than significant (Class II) in the Final EIR/EIS.</p>
<p>Geology, Mineral Resources, and Soils</p>	<p><i>No Change.</i> The requested refinement areas were included in the evaluation of geology, mineral resources, and soils in the Project area as part of the Boulevard Substation rebuild site, and will not result in new impacts. An additional approximately 0.42 acre of grading will be required as a result of the requested refinements. However, construction of the Boulevard Substation rebuild site will be conducted in accordance with the best management practices (BMPs) provided in the Boulevard Substation Storm Water Pollution Prevention Plan (SWPPP) for the Project. As a result, additional impacts to soils caused by erosion will be negligible.</p> <p>There are no identified mines located within or in close proximity to the requested refinement areas. The ground-disturbing activities that will be required to construct the Boulevard Substation rebuild site will include grading and excavation of the existing soil, which is consistent with that described in the Project's Final EIR/EIS. The proposed increase in the permanent footprint of the Boulevard Substation rebuild site will result in improved slope stabilization, and will therefore reduce potential for erosion at the site. As a result, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to geology, mineral resources, and soils, which was evaluated as significant but able to be mitigated to less than significant (Class II) in the Final EIR/EIS.</p>
<p>Public Health and Safety; Fire and Fuels Management</p>	<p><i>Reduced Impact.</i> The activities performed and the materials utilized during construction of the requested refinement areas will occur in accordance with the description of uses provided in the Project's Final EIR/EIS. The requested refinement areas will not create new hazards; rather, installation of the new water tank at the Boulevard Substation will increase the capacity for fire protection at the Boulevard Substation rebuild site, and the widening of the access road will increase road safety. The water tank will have a capacity of 16,900 gallons, which will adequately contain the 15,000 gallons of water as recommended for use during a potential oil fire. In accordance with the Project's Fire Protection Plan, a 15,000-gallon supply of water will be maintained in the water tank at all times. In addition, the proposed fire walls will increase the Boulevard Substation's capacity to protect the public from a potential transformer fire and to prevent its spread. The proposed widening of the access road at Old Highway 80 is required to meet San Diego County curb and grade standards for width, taper, and radius of the road apron, and will allow for the safe use of the access road by construction vehicles.</p> <p>Construction of the requested refinement areas will include the use of materials listed in Table D-10.2 of the Project's Final EIR/EIS and Table 1: Hazardous Materials and Uses of the Project's Hazardous Materials and Waste Management Plan. These materials were previously included in the Final EIR/EIS analysis, and all hazardous materials that will be used will be handled and disposed of in accordance with the Project's Hazardous Materials and Waste Management Plan and with the Health and Safety Program. As a result of the increased fire protection and road safety that will be provided by installation of the water tank and the widening of the access road, the requested refinements will result in reduced impacts related to public health and safety or fire and fuels management, which were</p>

EIR/EIS Section	Summary of Potential Impacts
	<p>evaluated as significant and unable to be mitigated to less than significant (Class I) in the Final EIR/EIS. The requested refinements will not result in a new, significant impact to public health and safety or fire and fuels management.</p>
<p>Water Resources</p>	<p><i>No Change.</i> The approved Boulevard Substation rebuild site and requested refinement areas were surveyed for drainages during the initial jurisdictional surveys that were conducted for the Boulevard Substation rebuild site. An additional survey for the Old Highway 80 culvert was conducted on June 13, 2013. Attachment D: Boulevard Substation Survey Results Map depicts the areas surveyed. One ephemeral swale, which drains into Carrizo Creek, and is under the jurisdiction of the California Department of Fish and Wildlife (CDFW), United States Army Corps of Engineers (USACE), and Regional Water Quality Control Board, was identified during the surveys.</p> <p>As discussed in the Final EIR/EIS, water resource impacts would be considered significant under the California Environmental Quality Act (CEQA) if the Project would violate any water quality standards or waste discharge requirements; substantially change the existing drainage patterns; create or contribute substantially to runoff water that exceeds the existing or planned storm water system; cause substantial flooding, erosion, or siltation; substantially degrade water quality; or substantially degrade or deplete ground water resources. The proposed refinements will not impact the Boulevard Substation rebuild site's ability to meet these requirements. Rather, the expanded drainage swale, new splash berm, and replacement culvert will allow the Boulevard Substation rebuild site to maintain the pre-existing surface storm water flow patterns during a 100-year storm event, and will reduce the risk of flooding.</p> <p>Due to the requested culvert installation, addition of the splash berm, and widening of the swale, a minor reduction in temporary impacts and a minor addition of permanent impacts to CDFW-jurisdictional drainages, will occur. The temporary and permanent impacts to CDFW-jurisdictional drainages will decrease by less than 0.01 acre and increase by approximately 0.03 acre, respectively. Temporary and permanent impacts to USACE-jurisdictional drainages will decrease by less than 0.01 acre and increase by less than 0.01 acre, respectively. San Diego Gas & Electric Company (SDG&E) will initiate consultation with the CDFW, USACE, and Colorado River Basin Regional Water Quality Control Board regarding the changes to impacts to jurisdictional resources. Permit amendments and modifications will be pursued once the design for the entire Project has been finalized.</p> <p>The requested refinement areas will be constructed using the same construction practices as those described in the Project's Final EIR/EIS, and the BMPs provided in the Boulevard Substation SWPPP will be implemented to reduce the potential for storm water runoff, erosion, sedimentation, and significant alterations to drainage patterns. In addition, the minor changes in impacts to CDFW- and USACE-jurisdictional drainages will not result in a significant increase to the previously identified impacts. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to water resources, which was evaluated as significant but able to be mitigated to less than significant (Class II) in the Final EIR/EIS.</p>

EIR/EIS Section	Summary of Potential Impacts
Land Use	<p><i>No Change.</i> As discussed in the Final EIR/EIS, land use impacts would be significant under CEQA if the Project results in a conflict with an applicable land use plan, policy, or regulations and/or results in a division of an established community or disrupts a recently approved land use. The Final EIR/EIS states that this property is designated as Multiple Rural Use, and will be designated as Semi-Rural Residential land use with the adoption of San Diego County’s Draft General Plan Update. The Boulevard Substation rebuild site and requested refinements occur within SDG&E-owned property and the Old Highway 80 right-of-way (ROW), and will not necessitate a change in land use status. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to land use, which was evaluated as significant but able to be mitigated to less than significant (Class II) in the Final EIR/EIS.</p>
Noise	<p><i>No Change.</i> The impacts to noise will be similar to those analyzed for construction and utilization of the Boulevard Substation rebuild site in the Final EIR/EIS, which considered clearing, grading, and installation of equipment and facilities, as well as the permanent use of the Boulevard Substation. No additional noise-generating activities or heavy equipment will be required during construction of the refinement areas aside from what was analyzed in the Final EIR/EIS, nor will the requested refinements be located more than 10 feet closer in proximity to sensitive receptors than what was previously analyzed for the Boulevard Substation rebuild site. The requested temporary work and staging areas would result in similar Project noise levels at the Boulevard Substation rebuild site, and the requested refinements will not result in a change to the anticipated permanent noise levels at the completed Boulevard Substation. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to noise, which was evaluated as less than significant (Class III) in the Final EIR/EIS.</p>
Social and Economic Conditions	<p><i>No Change.</i> The requested refinements will be constructed in accordance with the description of uses provided in the Project’s Final EIR/EIS. The requested refinements will not result in any displaced residences, and will be constructed within SDG&E-owned property and the Old Highway 80 ROW. The requested refinements will not require additional employment of construction personnel beyond what was analyzed in the Final EIR/EIS, and the requested refinements to the Boulevard Substation rebuild site will not induce population growth nor displace people. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to social and economic conditions, which was evaluated as less than significant (Class III) in the Final EIR/EIS.</p>

EIR/EIS Section	Summary of Potential Impacts
Public Services and Utilities	<p><i>No Change.</i> The requested refinement areas will be utilized in accordance with the description of uses provided in the Project’s Final EIR/EIS. The water required for the addition of approximately 0.42 acre of grading and for the requested 16,900-gallon water tank will require additional water than what was originally analyzed in the Final EIR/EIS. However, the additional water to fill the water tank will be brought in from SDG&E’s Kearny Construction and Operations Facility. Once complete, operations and maintenance on the Boulevard Substation rebuild site will include monthly inspections of the water tank; water will be refilled only when necessary, as the tank is only needed to support potential fire suppression.</p> <p>The Final EIR/EIS states that construction at the Boulevard Substation rebuild site could disrupt existing underground and overhead utilities during construction activities. The duration of construction for the Boulevard Substation rebuild site and requested refinements will not be greater than what was originally anticipated, and the requested refinements will not increase the potential for utility disruption. Mitigation Measure PSU-1a, which requires members of the public to be notified by mail prior to a known utility service interruption, will be implemented to reduce this risk. Construction of the requested refinements will also generate similar types and volumes of waste as was analyzed in the Final EIR/EIS for construction of the Project. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to public services and utilities, which was evaluated as significant but able to be mitigated to less than significant (Class II) in the Final EIR/EIS.</p>
Wilderness and Recreation	<p><i>No Change.</i> The refinements will not result in a new impact to wilderness and recreation, and the additional requested refinements are located within SDG&E-owned property and a small portion of the Old Highway 80 ROW. As provided in the Final EIR/EIS, the nearest wilderness areas to the Boulevard Substation rebuild site is the Carrizo Gorge Wilderness, which is located approximately 2.25 miles northeast of the substation site, and Lark Canyon Off-road Vehicle Area, which is located approximately four miles north of the substation site. The nearest recreational area to the Boulevard Substation rebuild site is Tule Lake, which is located approximately 1.75 miles to the northeast. The requested refinements will not be located in closer proximity nor obstruct access to any wilderness or recreational areas. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to wilderness and recreation, which was evaluated as less than significant (Class III) in the Final EIR/EIS.</p>
Transportation and Traffic	<p><i>No Change.</i> The location of the requested refinements will be adjacent to or within the approved permanent footprint of the Boulevard Substation rebuild site. The construction vehicles and heavy equipment that will be used for the addition of the requested refinements are consistent with those that were considered in the Final EIR/EIS. All construction activities associated with the requested refinements will be conducted in accordance with the Boulevard Substation Traffic Control Plan. Therefore, the requested refinements will not result in a new, significant impact nor a substantial increase in the severity of a previously identified impact to transportation and traffic, which was evaluated as significant but able to be mitigated to less than significant (Class II) in the Final EIR/EIS.</p>

ATTACHMENT B: PHOTOGRAPHS

ATTACHMENT B: PHOTOGRAPHS



Photograph 1: View of the northern end of the culvert replacement site facing east.



Photograph 2: View of the northern end of the culvert replacement site facing south.



Photograph 3: View of the southern side of the culvert replacement facing north.



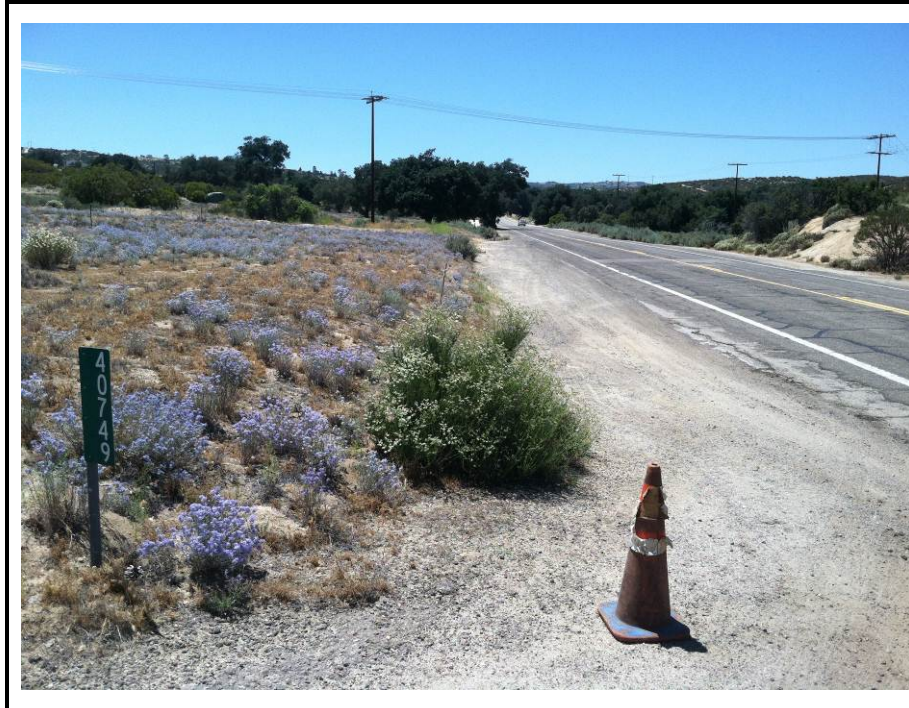
Photograph 4: View of the southern side of the culvert replacement facing west.



Photograph 5: View of the drainage to the north of the expanded culvert location, facing north.



Photograph 6: View of the intersection of the access road and Old Highway 80 facing east.



Photograph 7: View of the intersection of the access road and Old Highway 80 facing west.



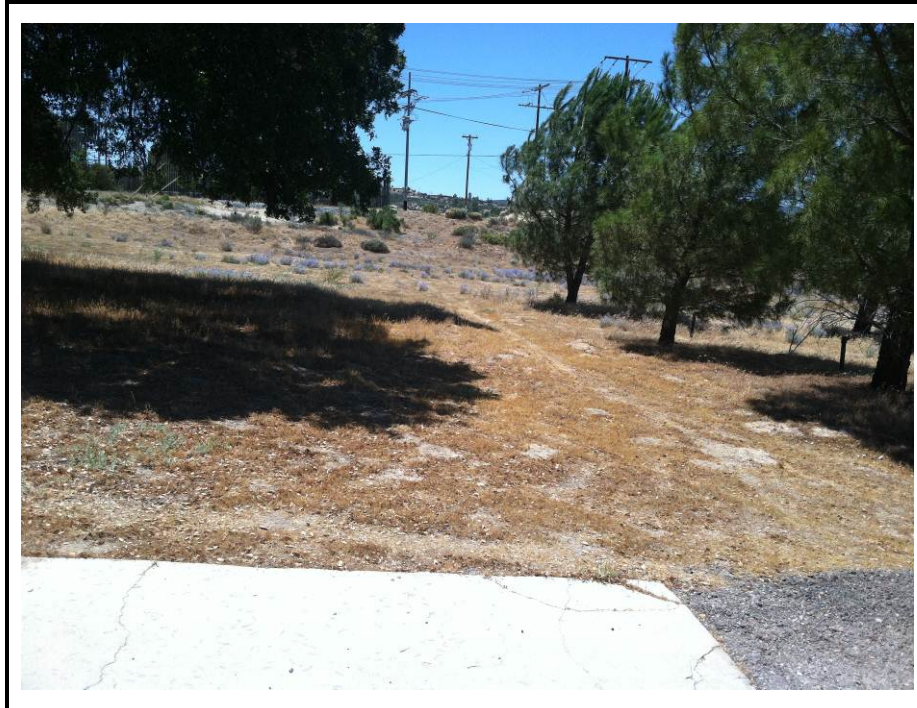
Photograph 8: View of the expanded swale location facing east.



Photograph 9: View of the expanded swale location facing east.



Photograph 10: View of the expanded swale location facing west.



Photograph 11: View of the expanded swale location facing west.



Photograph 12: View of the new splash berm location facing south.



Photograph 13: View of the new splash berm location facing northeast.

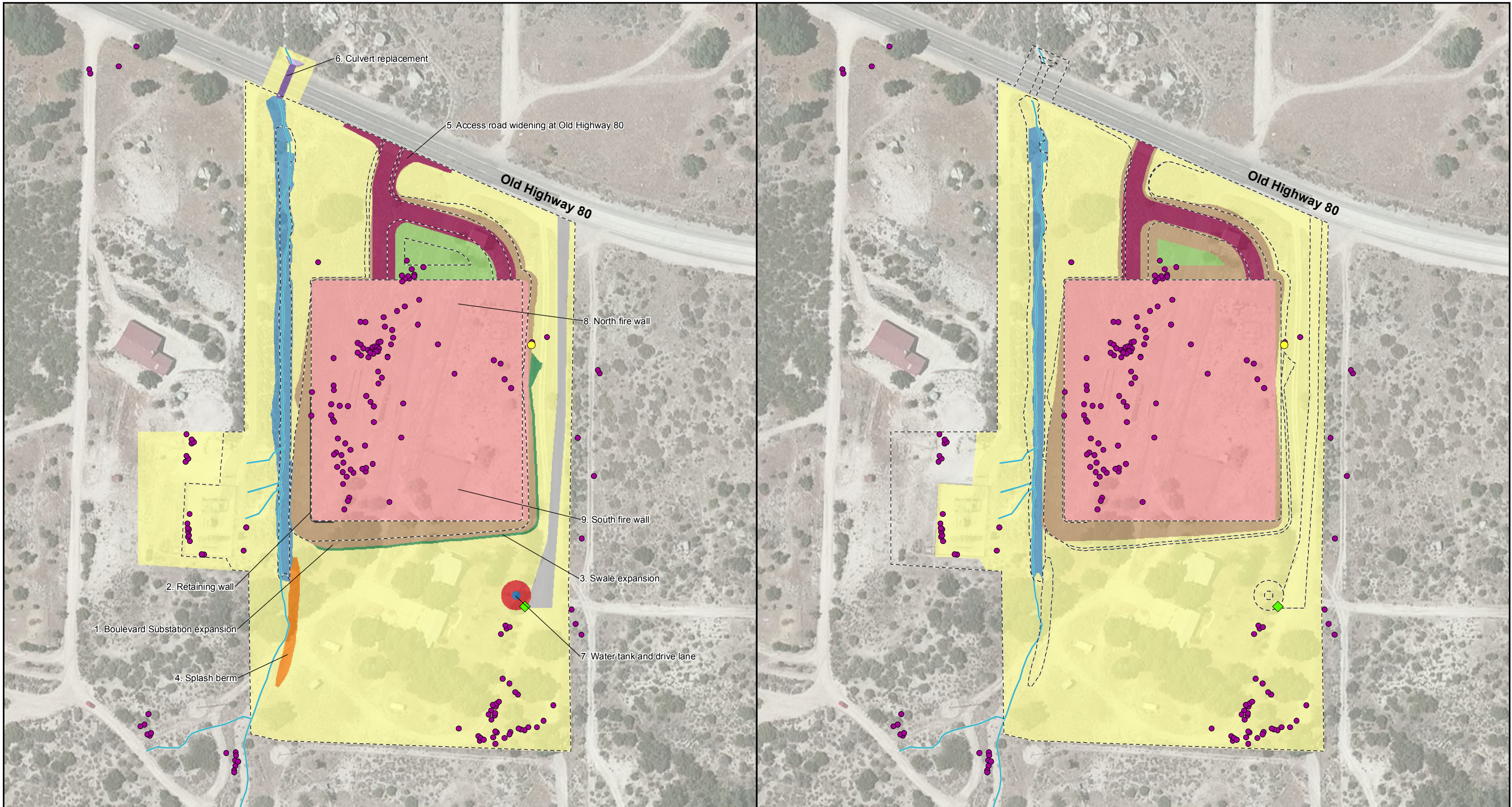


Photograph 14: View of the new splash berm location facing north.



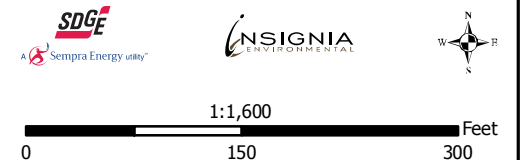
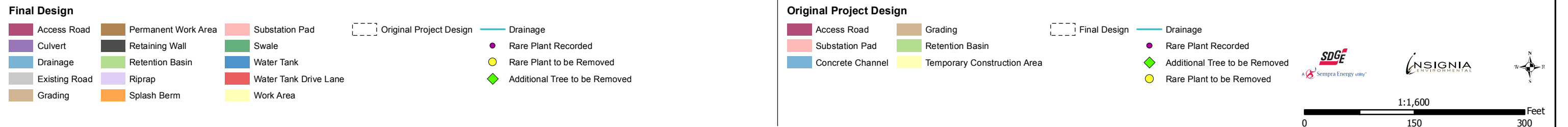
Photograph 15: View of the new water tank location facing east.

ATTACHMENT C: BOULEVARD SUBSTATION SITE COMPARISON MAP



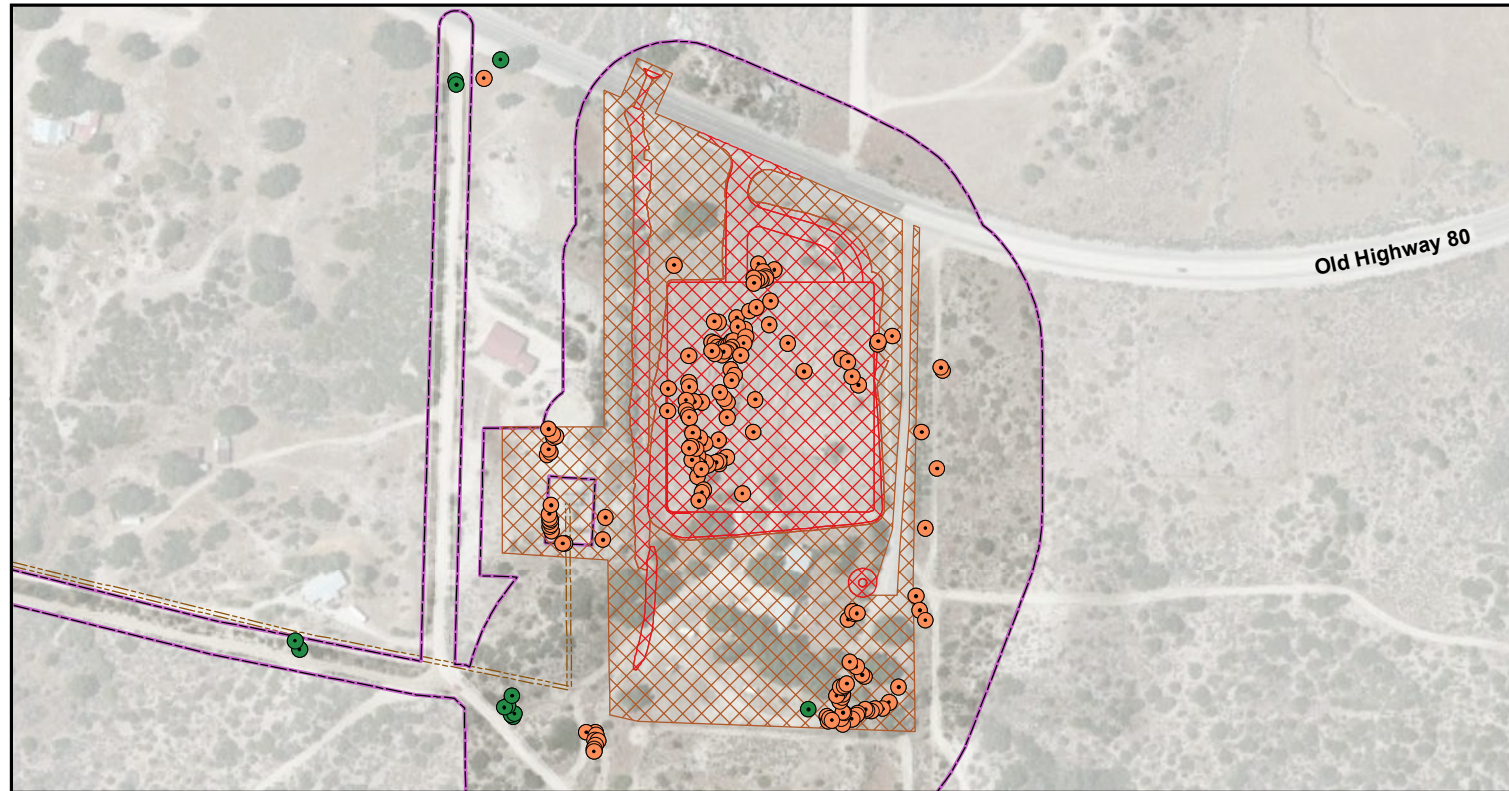
Attachment C: Boulevard Substation Site Comparison Map

East County Substation Project

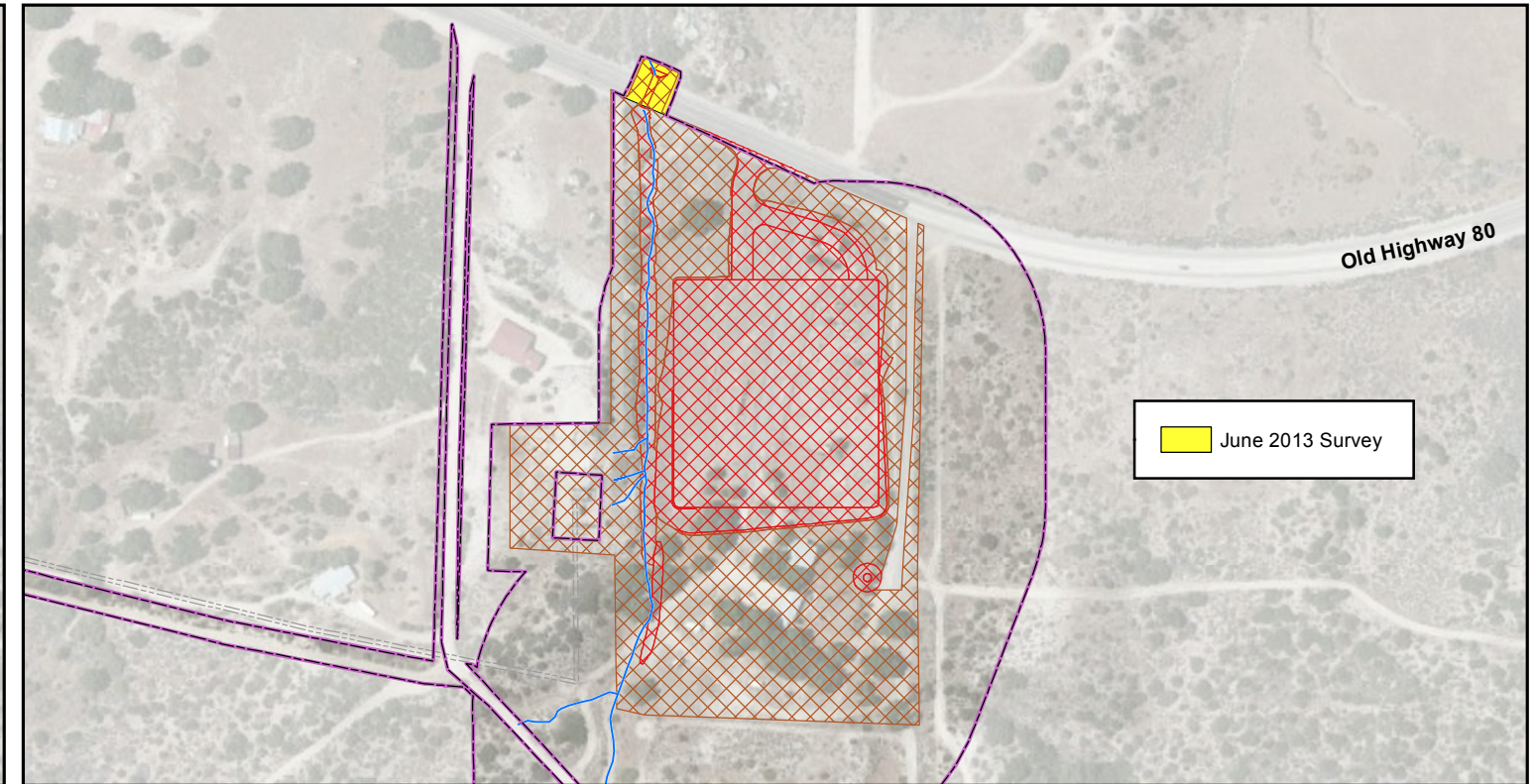


ATTACHMENT D: BOULEVARD SUBSTATION SURVEY RESULTS MAP

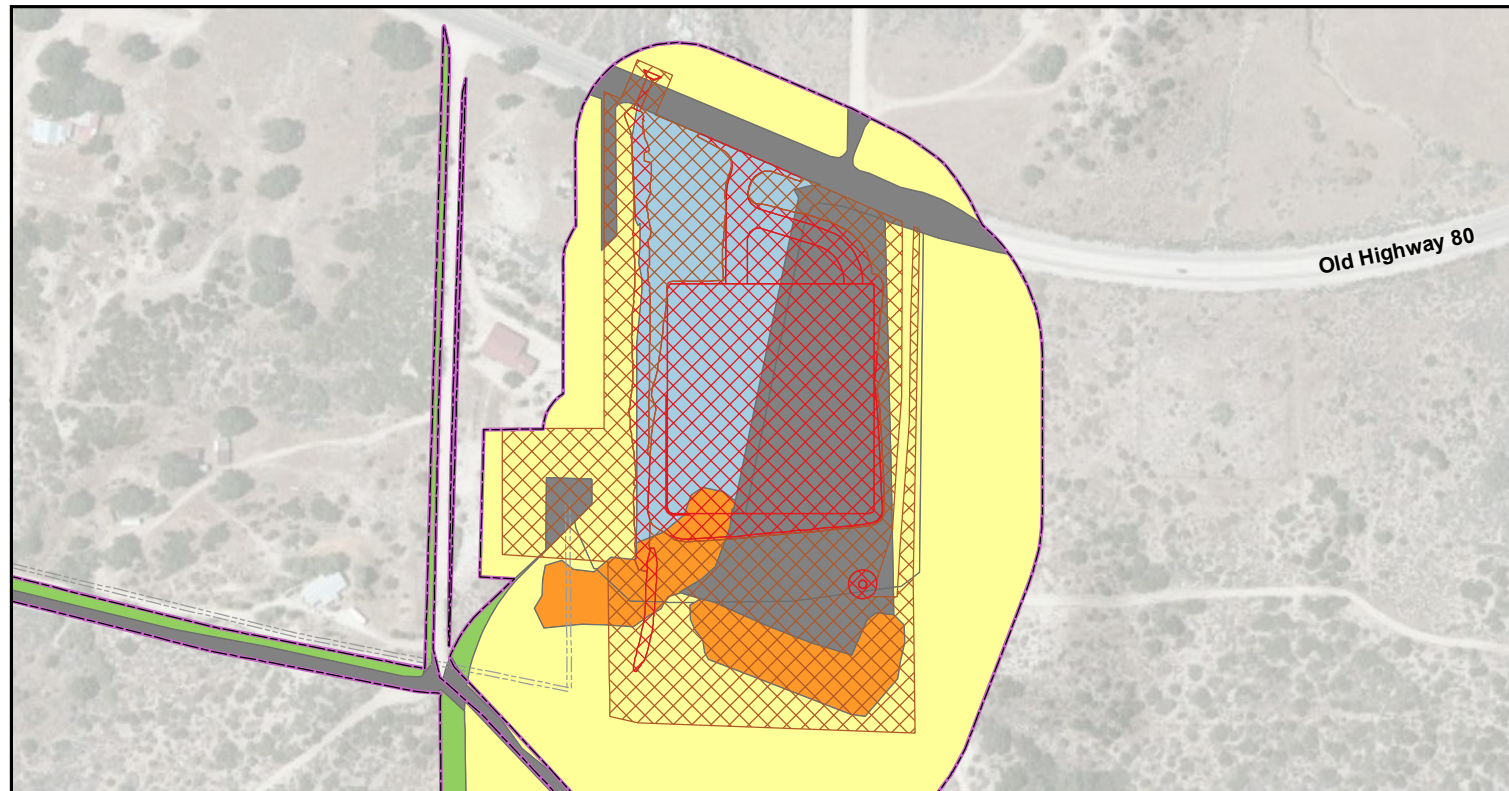
RARE PLANT SURVEY



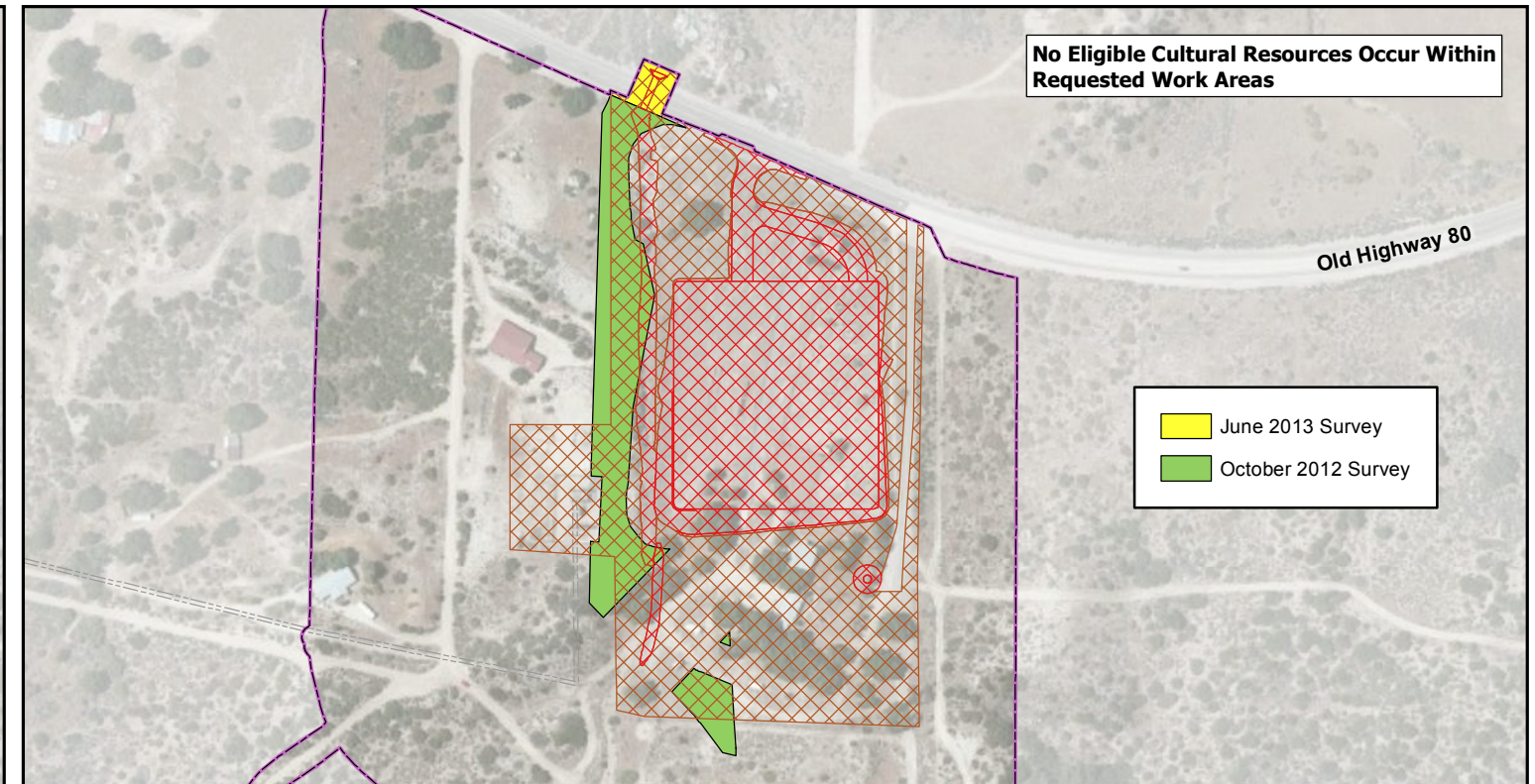
DRAINAGE SURVEY



GENERAL VEGETATION SURVEY



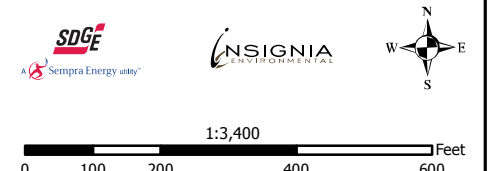
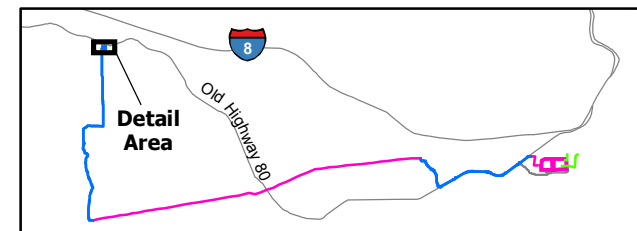
CULTURAL SURVEY



Attachment D: Boulevard Substation Survey Results Map

East County Substation Project

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> Survey Area Existing Transmission Line Final Design Permanent Temporary | <ul style="list-style-type: none"> Survey Data — Drainage Rare Plants ● Jacumba milk-vetch ● Stickey geraea | <ul style="list-style-type: none"> Vegetation Types Big Sagebrush Chamise-Redshank Chaparral Disturbed Grassland Oak Woodland Developed/Road |
|---|---|--|



ATTACHMENT E: EIR/EIS STUDY AREA TABLE

ATTACHMENT E: EIR/EIS STUDY AREA TABLE

Environmental Impact Report/Environmental Impact Statement (EIR/EIS) Study Area Table

Resource	Study Area from Final EIR/EIS	Location in Final EIR/EIS
Biological Resources	<ul style="list-style-type: none"> • Six parcels (498 acres total) on which the East County (ECO) Substation/Southwest Powerlink (SWPL) loop-in are located • 400-foot-wide corridor along the originally proposed 13.3-mile-long 138 kilovolt (kV) overhead transmission alignment, between the proposed ECO and Boulevard substation sites • Existing Boulevard Substation (within the fenced limits) • 8.5-acre Boulevard Substation Rebuild site • 377-acre alternative ECO Substation site¹ • 40 feet from the edge of the disturbed road on each side of the Old Highway 80 – Carrizo Gorge Road underground transmission line route alternative (ECO Partial Underground 138 kV Transmission Route Alternative) • 60-foot-wide corridor along the SWPL to Boulevard portion of the ECO Partial Underground 138 kV Transmission Route Alternative 	<ul style="list-style-type: none"> • Page D.2-3 • Figures D.2-1 through D.2-3 • Proponent’s Environmental Assessment (PEA) Page 4.4-3 • Page C-25 • Old Highway 80 – Carrizo Gorge Road Reroute Biological Resources and Jurisdictional Drainages Surveys Summary Report • Figure A-3 of San Diego Gas & Electric Company’s comments on the Draft EIR/EIS
Visual Resources	Within five miles of the ECO Substation Project (Project) components and alternatives	Page D.3-3
Land Use	Land underlying and directly adjacent to the Project components and alternatives	Page D.4-1
Wilderness and Recreation	Recreation areas and facilities in southeastern San Diego and southwestern Imperial counties	<ul style="list-style-type: none"> • Page D.5-1 • Figure D.5-1B
Agriculture	All California Department of Conservation Farmland Mapping and Monitoring Program agricultural land in San Diego County	Pages D.6-1 and D.6-2

¹ The approved ECO Substation site is located approximately 700 feet east of the originally proposed location on three parcels totaling 377 acres. Additional information regarding the ECO Substation Alternative Site is provided on page C-25 of the Final EIR/EIS.

Resource	Study Area from Final EIR/EIS	Location in Final EIR/EIS
Cultural and Paleontological Resources	0.5-mile radius from Project components and approved alternatives ²	<ul style="list-style-type: none"> • Pages D.7-2 through D.7-4 regarding information used (distance provided in the PEA section) • Pages C-25 through C-27
Noise	<ul style="list-style-type: none"> • Distance from closest property line or sensitive receptor from each Project component, including the following: <ul style="list-style-type: none"> - Approximately 500 feet from ECO Substation site - Approximately 1,320 feet from SWPL Loop-in site - Approximately 235 feet from the 138 kV transmission line - Approximately 500 feet from the Boulevard Substation site 	Pages D.8-4 and D.8-5
Transportation and Traffic	<ul style="list-style-type: none"> • Roads in the Project vicinity, including the following: <ul style="list-style-type: none"> - Interstate 8 - State Route 94 - Old Highway 80 - Ribbonwood Road - McCain Valley Road - Tule Jim Lane - Jacumba National Cooperative - Carrizo Creek Road - Carrizo Gorge Road - Jewel Valley Road - Several unnamed dirt roads throughout the Project area • San Diego and Arizona Eastern Railway • Jacumba Airport and Empire Ranch airstrip • San Diego Metropolitan Transit Service Bus Route 888, providing service between El Cajon and Jacumba, California 	Figures D.9-1A and D.9-1B

² The approved alternatives include the ECO Substation Alternative Site, as well as the ECO Partial Underground 138 kV Transmission Route Alternative alignments. Additional information regarding the approved alternative areas is provided on pages C-25 through C-27 of the Final EIR/EIS.

Resource	Study Area from Final EIR/EIS	Location in Final EIR/EIS
Public Health and Safety	Within two miles of the ECO Substation site and approximately 14-mile-long overhead transmission line alignment	<ul style="list-style-type: none"> • Page D.10-2 • Page ES-1 of the Phase I Environmental Site Assessment of the 377-acre ECO Substation site parcels • Page 5 of the Limited Phase I Environmental Site Assessment for the transmission alignment
Air Quality	San Diego Air Basin	Page D.11-6
Water Resources	Colorado River Basin	Page D.12-2
Geology, Mineral Resources, and Soils	<ul style="list-style-type: none"> • Within 40 miles for faults • Within 0.5 mile of land underlying Project components and alternatives 	Page D.13-1, Figure D.13-1
Public Services and Utilities	<ul style="list-style-type: none"> • Within 60 miles for landfills • Within five miles for all other public services and utilities 	Page D.14-27
Fire and Fuels Management	Greater eastern San Diego County	Page D.15-1, Figures D.15-1A and D.15-1B
Social and Economic Conditions	Mountain Empire Subregion (Jacumba, Boulevard, Tecate, Potrero, and Campo)	Page D.16-2
Environmental Justice	Mountain Empire Census County Division	Page D.17-1
Climate Change	California	Page D.18-2

ATTACHMENT F: REFINEMENTS TABLE

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Refinement Area	Proposed Activities/Improvements	Need for Refinement	Approximate Dimensions (feet)	Difference in Net Impacts (Approved Design versus Requested Refinements)		Notes
				Temporary (acres)	Permanent (acres)	
1.	Boulevard Substation expansion	Needed to implement final engineering and slope stabilization requirements	305 by 340	-0.02	0.02	
2.	Retaining wall installation	Needed to allow the slope to be constructed at a two-to-one ratio without extending the western limits of the substation permanent footprint	3 by 200	0	0	The retaining wall will be installed in an area already approved for permanent disturbance
3.	Drainage swale widening	Needed to accommodate a partially vegetated lined system necessary to maintain the pre-existing surface storm water flow pattern and accommodate the calculated velocity of the storm water flow during a 100-year storm event	4 by 560	-0.05	0.05	
4.	Splash berm installation	Needed to meet San Diego County 100-year storm event requirements, maintain the pre-existing surface storm water flow pattern, and prevent flooding of the Boulevard Substation rebuild site during a 100-year storm event	14 by 180	-0.06	0.06	
5.	Access road widening	Needed to meet San Diego County Curb/Grade Permit standards for width, taper, and radius of the road apron	30 by 400	-0.04	0.04	

Refinement Area	Proposed Activities/Improvements	Need for Refinement	Approximate Dimensions (feet)	Difference in Net Impacts (Approved Design versus Requested Refinements)		Notes
				Temporary (acres)	Permanent (acres)	
6.	Culvert replacement (including rip-rap)	Needed because the existing culvert is too small to accommodate a 100-year storm event and a larger culvert would reduce the potential flooding of Old Highway 80	10 by 50	< 0.01	0.02	
7.	Water tank installation and drive lane	Needed to implement the requirement in the Fire Prevention Plan to maintain a water tank with a minimum storage capacity of 15,000 gallons for use during a potential oil fire	40 (diameter)	-0.03	0.03	
8.	Northern fire wall installation	Proposed for increased public safety	37.25 by 17.25	0	0	The fire walls will be installed in an area already approved for permanent disturbance
9.	Southern fire wall installation	Proposed for increased public safety	41.25 by 28.25	0	0	The fire walls will be installed in an area already approved for permanent disturbance