# CALIFORNIA PACIFIC ELECTRIC COMPANY
# 625 AND 650 ELECTRICAL LINE UPGRADE PROJECT
# MITIGATION MONITORING, COMPLIANCE, AND REPORTING PROGRAM

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**JULY 2015**

Printed on 30% post-consumer recycled material.

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# 1 INTRODUCTION

The Final Environmental Impact Statement (EIS)/EIS/Environmental Impact Report (EIR) for the 625 and 650 Electrical Line Upgrade Project (project), was released on Sept. 19, 2014. This Mitigation Monitoring, Compliance, and Reporting Program (MMCRP) is including in as part of the CPUC's Administrative Law Judges Proposed Decision to assist the Commission in is decision-making process. This document includes provision for preparing and implementing a MMCRP to ensure compliance with Applicant Proposed Measures (APMs) and Mitigation Measures (MM) approved in the Final EIS/EIS/EIR. This MMCRP includes the information provided in Section G of the CEQA Guidelines (14 CCR 15000 et seq.), as well as specific protocols to be followed prior to and during construction by CPUC third-party environmental monitors (CPUC EMs) and California Pacific Electric Company, LLC (CalPeco)[1] project staff.

The project's MMCRP includes direct participation and commitment from CalPeco and CPUC EMs. The success of the program depends on the project management staff, monitors, and construction contractor personnel. Therefore, the goal of the MMCRP is to provide a clear understanding of the project's organization, establish lines of communication, and effectively document and report compliance with all of the mitigation measures.

The MMCRP was developed to provide guidelines and standardize procedures for environmental compliance on the project. The procedures have been developed in coordination with CalPeco, CPUC, and CPUC EMs to help define the reporting relationships, provide detailed information about the roles and responsibilities of the project's environmental compliance team members, define compliance reporting procedures, and establish a communication protocol.

## 1.1 Authority and Purpose of the Program

The California Public Utilities Code confers authority upon the CPUC to regulate the terms of service and the safety, practices, and equipment of utilities subject to its jurisdiction. It is the standard practice of the CPUC, pursuant to its statutory responsibility to protect the environment, to require that mitigation measures stipulated as conditions of approval are implemented properly, monitored, and reported on. In 1989, this requirement was codified statewide as Section 21081.6 of the Public Resources Code. Section 21081.6 requires a public agency to adopt a Mitigation Monitoring, Compliance, and Reporting Program when it approves a project

[1] By Advice Letter 28-E submitted on July 15, 2013, California Pacific Electric Company, LLC notified the CPUC of its formal change in name as of that date to Liberty Utilities (CalPeco Electric) LLC. (CPUC 2014) Since the Final EIS/EIS/EIR maintained the use of "CalPeco" as the project applicant for uniformity, this MMCRP will also use CalPeco as the applicant.

that is subject to preparation of a Final EIR. CEQA Guidelines, Section 15097, was added in 1999 to further clarify agency requirements for mitigation monitoring or reporting (14 CCR 15097). The CPUC views the MMCRP as a working guide to facilitate not only the implementation of APMs and mitigation measures by the project proponent, but also the monitoring, compliance, and reporting activities of the CPUC and any monitors it may designate.

## 1.2 Program Adoption Process

The APMs and MMs proposed in the Final EIS/EIS/ EIR and the framework for this MMCRP, are described in Section 3.7 of the Final EIS/EIS/EIR. Mitigation measures for each issue area can be found in the Executive Summary and Section 3.7 of the EIS/EIS/EIR, attached to the Proposed Decision, and in Table 3 in this MMCRP. A draft version of the MMCRP was distributed to CalPeco, CPUC, and CPUC EMs for review and comment.

## 1.3 Project Description

### 1.3.1 Project Overview

The 625 and 650 Electrical Line Upgrade Project consists primarily of an upgrade of CalPeco's existing 625 and 650 electrical power lines and associated substations from 60 kilovolt (kV) to 120 kV to allow the entire North Lake Tahoe Transmission System to operate at 120 kV.

These improvements will increase the ability to maintain the current maximum system loads during an outage on any one of the four sections of the system; decrease reliance on the Kings Beach Diesel Generation Station; reduce the likelihood of outages associated with environmental conditions (e.g., high winds); and will improve access to the lines for maintenance, emergency outage response, and repair activities.

The project will include six primary components:

1. removal of the existing 625 Line and construction of a new, re-routed 625 Line;
2. rebuild of the existing 650 Line with realignments based on the action alternatives considered;
3. realignment of two short segments of the 650 Line and removal of the replaced segments;
4. rebuild of the Northstar Tap into a fold (a "fold" allows for service to be maintained at a substation in the event of an interruption in service on either side of the power line feeding it);
5. rebuild of a 1.6-mile long section of the existing 132 Line in the Town of Truckee; and
6. upgrade, modification, and/or decommissioning of six substations.

**Schedule**

Project-related construction activities will not begin until pre-construction mitigation measures and submittals have been satisfied. Once pre-construction mitigation measures have been completed, the CPUC will issue a Notice to Proceed (NTP), indicating that construction can commence. The NTP may include CPUC or other agency conditions or requirements that must be satisfied prior to the start of work or during construction. Section 4.3 of this MMCRP lists the mitigation measures, the timing for completion, and whether CPUC review or approval is required before construction can commence. A map of the construction elements is provided in Attachment A. Table 1, Estimated Construction Schedule shows the estimated construction schedule by activity. Construction is anticipated to occur over 24.5 non-consecutive months (annual construction season in the Lake Tahoe Region is from May 1 through October 15, and may be extended with TRPA approval) within a six-year construction period.

**Table 1**
**Estimated Construction Schedule**

| Phase | Dates | Duration (Months) | Project Activity |
|---|---|---|---|
| 1 | August 1 – October 15 2015 and<br>May 1 – October 15 2016 | 8.0 | Rebuild and Upgrade of the 650 Line (Including Northstar Fold) |
| 2 | May 1 – October 15 2017 | 5.5 | Substation Upgrades, Decommission Brockway Substation |
| 3 | May 1 – October 15 2019 and 2020 | 11 | Upgrade of the 625 Line and Additional Modifications of the Substation |

**Source:** TriSage Consulting 2015.

### 1.3.2 Construction Components

The mitigation measures listed in Section 4.3 of this MMCRP include the location and project component(s) in which the mitigation measure applies. In general, the mitigation measures are applicable to all project components; however, certain biological protection measures are component specific. CalPeco will work closely with contractor staff to ensure that site-specific mitigation measures are clearly identified.

### 1.3.3 Project Documents

This document is intended to provide pertinent information necessary to successfully implement the MMCRP during construction. The mitigation measures listed in Section 4.3 of this MMCRP can be found in the Executive Summary (mitigation measures) and Section 3.7 (APMs) (CPUC 2014). Detailed discussions on the intent of each mitigation measure and potential impacts that could result if the mitigation measures are not implemented properly are provided in these

sections as well. Construction activities must be conducted in accordance with the requirements stipulated in the following documents as well as in the Final EIS/EIS/EIR:

- USFS (LTBMU and Tahoe National Forest) Special Use Authorization
- Timber Sale Contract Harvesting of timber on NFS lands
- Cultural Resources Protection, Monitoring and Unanticipated Discovery Plan for Calpeco 625 and 650 Electrical Line Upgrade Project Nevada and Placer Counties California
- ACOE Section 404 Individual or Nationwide Permit Potential work in waters of the United States, including wetlands
- CDFW Section 1602 Streambed Alteration Agreement
- 2081 Incidental Take Permit
- California Department of Forestry and Fire Protection Timber Harvest Plan
- State Water Resources Control Board Water Quality Order No. 99-08 – National Pollution Discharge Elimination System (NPDES) General Permit for Stormwater Discharges
- Water Quality Order No. 2003-0003 – Statewide General Waste Discharge Requirements for discharges to land with a low threat to water quality (dewatering activities)
- Lahontan Regional Water Quality Control Board Section 401 Water Quality Certification
- Board Order No. R6T-2007-0008 – Waiver of Waste Discharge Requirements Related to Timber Harvest and Vegetation Management Activities
- Board Order No. R6T-2005-2007 – Waste Discharge Requirements and NPDES General Permit No. CAG616002
- Board Order No. R6T-2008-0023 – Renewed Waste Discharge Requirements and NPDES General Permit for Limited Threat Discharges to Surface Waters
- Caltrans Encroachment Permit
- California Department of Parks and Recreation Encroachment Permit/Easement Expansion
- Linear Public Service Construction Permit
- Tree Removal Permit Removal of trees in the Lake Tahoe Basin
- Northern Sierra Air Quality Management District and Placer County Air Pollution Control District Dust Control Plan

## 1.4 Agency Jurisdiction

In addition to the CPUC, several local, state, and federal agencies have jurisdiction over lands within the project area. The CPUC, as the lead agency, is responsible for ensuring that mitigation measures reviewed and approved by jurisdictional agencies during the Final EIR process are implemented throughout construction. However, jurisdictional agencies may visit the project site from time to time and request information regarding the status of a mitigation measure. In addition, under their NCCP, CalPeco is required to submit survey results to the U.S. Fish and Wildlife Service (USFWS) and the California Department of Fish and Wildlife (CDFW; formerly California Department of Fish and Game (CDFG)) and consult with these agencies when project changes affect the condition of their permit. CalPeco is responsible for satisfying requests from jurisdictional agencies and will provide the CPUC with a copy of the final approvals and verifications from jurisdictional agencies for the project. Additional information on communication protocols can be found in Section 2.3 of this MMCRP. Table 2 lists jurisdictional agencies associated with the project.

**Table 2**
**Jurisdictional Agencies Associated with the 625 and 650 Electrical Line Upgrades Project**

| Agency | Permit | Action Requiring Permit Approval or Review |
|---|---|---|
| *Federal Agencies* | | |
| USFS (LTBMU and Tahoe National Forest) | Special Use Authorization | Construction on NFS lands |
| | NEPA Review/Approval as a Lead Agency | Issuance of a Special Use Authorization |
| | Timber Sale Contract | Harvesting of timber on NFS lands |
| | Special Use Authorization | Construction on NFS lands |
| USFWS | Section 7 Consultation (through the USFS review process) | Potential impacts to a federally listed species or its habitat |
| Advisory Council on Historic Preservation | Section 106 Consultation (through the USFS review process) | Potential impacts to cultural resources |
| ACOE | Section 404 Individual or Nationwide Permit | Potential work in waters of the United States, including wetlands |
| | NEPA Review/Approval as a Cooperating Agency | Authority to Construct on USACE Land |
| Federal Aviation Administration | Air Traffic Consultation | Review and authorization of helicopter operations (e.g., flight paths, communication protocols) |

**Table 2**
**Jurisdictional Agencies Associated with the 625 and 650 Electrical Line Upgrades Project**

| Agency | Permit | Action Requiring Permit Approval or Review |
|---|---|---|
| *Bi-State Compact Agency* | | |
| Tahoe Regional Planning Agency | Project Review/Approval as the Lead Agency | Issuance of a Linear Public Service Construction Permit |
| | Linear Public Service Construction Permit | Work within the Lake Tahoe Basin |
| | Tree Removal Permit | Removal of trees in the Lake Tahoe Basin |
| | Project Review/Approval as the Lead Agency | Issuance of a Linear Public Service Construction Permit |
| *State Agencies* | | |
| CPUC | PTC | Construction or upgrade of facilities under 200 kV |
| | CEQA Review/Approval as a Lead Agency | Issuance of a PTC |
| CDFW | Section 1602 Streambed Alteration Agreement | Potential disturbance to the bed or bank of jurisdictional waters |
| | 2081 Incidental Take Permit | Potential impacts to a state-listed species |
| State Historic Preservation Officer (SHPO) | SHPO Consultation (through the Section 106 process) | Potential impacts to cultural resources |
| California Department of Forestry and Fire Protection | Timber Harvest Plan | Harvesting of timber on private lands |
| State Water Resources Control Board | Water Quality Order No. 99-08 – National Pollution Discharge Elimination System (NPDES) General Permit for Stormwater Discharges associated with Construction Activity | Discharges of stormwater runoff associated with construction activity involving land disturbance of 1 or more acres |
| | Water Quality Order No. 2003-0003 – Statewide General Waste Discharge Requirements for discharges to land with a low threat to water quality | Dewatering of excavations to land surface |
| Lahontan Regional Water Quality Control Board | Section 401 Water Quality Certification | Potential impacts to state water quality; required when a federal permit is issued |
| | Board Order No. R6T-2007-0008 – Waiver of Waste Discharge Requirements Related to Timber Harvest and Vegetation Management Activities | Potential impacts to state water quality resulting from tree and vegetation removal activities |
| | Board Order No. R6T-2005-2007 – Waste Discharge Requirements and NPDES General Permit No. CAG616002 | Discharges of stormwater runoff associated with construction activity involving land disturbance of 1 or more acres in the Lake Tahoe hydrologic unit |

**Table 2**
**Jurisdictional Agencies Associated with the 625 and 650 Electrical Line Upgrades Project**

| Agency | Permit | Action Requiring Permit Approval or Review |
|---|---|---|
| *State Agencies* | | |
| | Board Order No. R6T-2008-0023 – Renewed Waste Discharge Requirements and NPDES General Permit for Limited Threat Discharges to Surface Waters | Dewatering of excavations to surface waters (if overland discharge is not feasible) |
| Caltrans | Encroachment Permit | Construction, operation, and maintenance within, under, or over state highway ROWs |
| California Department of Parks and Recreation | Encroachment Permit/Easement Expansion | Authority to conduct construction activities on State Parks land. |
| *Local Agencies* | | |
| Northern Sierra Air Quality Management District and Placer County Air Pollution Control District | Dust Control Plan | Disturbance of more than 1 acre of topsoil |

ACOE = U.S. Army Corps of Engineers; CalPeco = California Pacific Electric Company; USFWS = U.S. Fish and Wildlife Service; CPUC = California Public Utilities Commission; CEQA = California Environmental Quality Act; NPDES = National Pollutant Discharge Elimination System; RWQCB = Regional Water Quality Control Board; Caltrans = California Department of Transportation; CDFW = California Department of Fish and Wildlife;

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# 2 ROLES AND RESPONSIBILITIES

This chapter describes the roles and responsibilities of key project personnel with respect to the MMCRP. Figure 1 provides an organizational chart of project members responsible for implementing the MMCRP and their relationship to other staff working on the project. The organizational chart also establishes preliminary lines of communication within the project team.

## 2.1 Organization Overview

### 2.1.1 CalPeco

**CalPeco Director Major Projects**

CalPeco's director major projects, referenced in the project contact list (Attachment B), will provide the overall direction, management, leadership, and corporate coordination for the construction project. The director's responsibilities related to the environmental program include, but are not limited to, the following:

- Coordinating between financial, safety, public affairs, construction, engineering, land services, and environmental staff
- Providing direction by integrating environmental compliance into all levels of the project organization
- Communicating corporate coordination for all levels of the project organization
- Ensuring financial support and effective corporate leadership and management of staff to comply with all project policies, requirements, and procedures.

**CalPeco Project Managers**

CalPeco's project managers (PMs) referenced in the project contact list (Attachment B) will oversee the activities of the assigned construction components. Specific responsibilities of the PMs include, but are not limited to, the following:

- Ensuring compliance with project specifications, drawings, permit conditions, construction contracts, and applicable codes
- Notifying environmental PM and environmental compliance lead (ECL) of project schedule changes
- Working with CalPeco Environmental Project Management Team to evaluate and improve the implementation of the MMCRP as construction progresses
- Providing leadership for the engineering, procurement, and construction services by integrating environmental responsibility into the project organization.

### CalPeco Contract Administrators and Construction Personnel

Construction activity will take place at any given time within multiple construction components. Construction contractors will have significant responsibilities for implementation of and compliance with the environmental requirements of the project. CalPeco contract administrators, or CAs, referenced in the contact list (Attachment B) will oversee the day-to-day construction activities conducted by CalPeco's construction contractors. The construction contractors will be responsible for incorporating all project environmental requirements into their day-to-day construction activities. Key environmental responsibilities for contractors' staff include, but are not limited to:

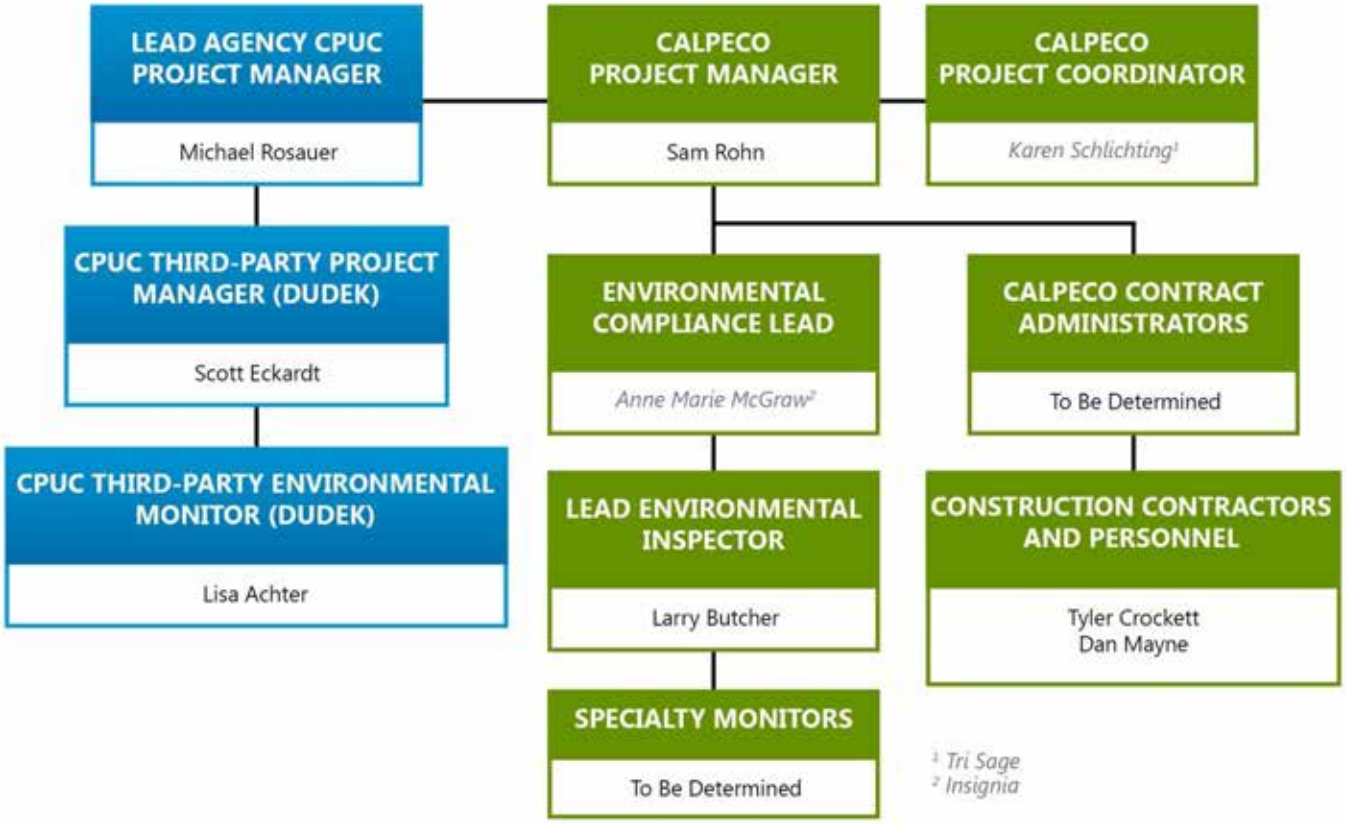
- Verifying that all construction workers attend the project's environmental awareness training prior to beginning work on the project
- Reviewing and understanding the environmental requirements
- Implementing and maintaining mitigation measure requirements and conditions during construction
- Responding to requests by CalPeco Environmental Specialists and Environmental Inspectors (EIs) during construction.

### CalPeco Environmental Project Manager

CalPeco's environmental project manager (EPM) referenced in the project contact list (Attachment B) is responsible for providing the appropriate level of resources for successful implementation of the MMCRP. The EPM will provide management, direction, and leadership to the CalPeco Environmental Project Management Team. Specific responsibilities of the EPM include, but are not limited to:

- Directing the development and implementation of the pre-construction environmental planning, permitting, and compliance activities
- Ensuring the development of environmental awareness training
- Providing the leadership and resources to ensure compliance with the MMCRP
- Actively communicating with the lead agencies, particularly in regard to the MMCRP
- Ensuring frequent and clear communication between CalPeco environmental staff, construction personnel, responsible resource agencies, and EIs
- Establishing and supporting the lines of communication between the CalPeco environmental staff, construction personnel, agencies, and EI.

**Figure 1 Organizational Chart**



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**CalPeco Environmental Compliance Lead**

CalPeco's ECL referenced in the project contact list (Attachment B) will provide oversight of all activities required for compliance with the MMCRP. The ECL's responsibilities include, but are not limited to:

- Coordinating and tracking MMCRP compliance, including the submittal weekly and biweekly compliance reports and pre-construction submittals in order to receive NTPs
- Preparing Minor Project Refinement Request Forms or assisting CalPeco contractors with preparation of the requests
- Implementation of environmental awareness training
- Ensuring that construction personnel receive environmental awareness training
- Submitting weekly compliance reports to the CPUC
- Actively communicating with all agencies respective to the mitigation measure requirements
- Providing coordination with CalPeco PMs, CalPeco CAs, and construction personnel to ensure that mitigation measures are understood and implemented.

**CalPeco Environmental Specialists**

CalPeco's resources leads referenced in the contact list (Attachment B) will support the ECL for successful implementation, planning, permitting, and compliance activities required under the MMCRP. The Environmental Specialists' responsibilities include, but are not limited to, the following:

- Overseeing the activities of the biological, paleontological, cultural, air, water, visual, hazardous materials, wilderness/recreation, and noise mitigation measure requirements, including environmental monitoring
- Supporting the development and implementation of the pre-construction environmental planning, permitting, and compliance activities
- Providing technical assistance to the EIs
- Submitting summary reports to responsible resource agencies, as identified in mitigation or other applicable regulation.

### CalPeco Lead Environmental Inspector

CalPeco's lead EI (LEI) in the project contact list (Attachment B) will support the ECL for successful day-to-day field implementation of the MMCRP. The LEI's responsibilities include, but are not limited to, the following:

- Coordinating with CPUC EMs as appropriate
- Coordinating the mobilization of other resource specialists, including cultural, paleontological, and stormwater pollution prevention plan (SWPPP) specialists, as required
- Conducting daily inspections of construction activities and reports
- Coordinating the assessment of work area conditions ahead of construction and providing advance notice of conditions and situations that require specific awareness, planning, or notifications
- Working closely with the EPM, ECL, CAs, and CPUC EMs to evaluate the effectiveness of mitigation measures
- Providing coordination with the CAs and construction and engineering groups to ensure mitigation measures are understood and implemented
- Providing and documenting environmental awareness training for project personnel
- Assisting the EMP and ECL with the preparation of Minor Project Refinement Request Forms.

### CalPeco Specialty Environmental Inspectors and Resource Monitors

Several mitigation measures require a qualified specialty monitor during construction, as presented in Section 4.3 of this MMCRP. CalPeco is to provide an on-site specialty monitor to meet the conditions of the mitigation measures identified in Section 4.3.

Contact information for all specialty EIs will be made available as consultant and contract personnel are finalized. The specialty EIs will provide oversight, protection, and direction for compliance within their field of expertise for the applicable construction components.

### Additional CalPeco Roles

#### *CalPeco Public Affairs*

The CalPeco public affairs manager provides information and guidance to both the project construction management team and the environmental management team, as needed.

***CalPeco Environmental Law Department***

The CalPeco senior counsel for the Environmental Law Department provides information and guidance to both the project management team and the environmental management team, as needed.

***Mitigation Compliance***

CalPeco is responsible for successfully implementing all the adopted mitigation measures and Applicant Proposed Measures (APMs) in the MMCRP. The MMCRP contains criteria that define whether mitigation is successful. Standards for successful mitigation also are implicit in many mitigation measures that include such requirements as obtaining nondiscretionary permits or avoiding a specific impact entirely. Additional mitigation success thresholds may be imposed by applicable agencies with jurisdiction through the discretionary permit process.

### 2.1.2 California Public Utilities Commission

**CPUC Project Manager**

The CPUC PM (see Attachment B, Project Contact List) has the overall responsibility for ensuring that mitigation measures are implemented as adopted by the CPUC. He will determine the effectiveness of the MMCRP based on the success criteria included in the mitigation monitoring program tables. The CPUC delegates field monitoring and reporting responsibilities to Dudek. The CPUC PM will oversee Dudek's work through telephone calls and review of daily and weekly status reports. The CPUC PM will be notified of all noncompliance situations immediately by telephone call or email and may suggest measures to help resolve the issue(s). All Minor Project Refinement Request Forms will be submitted to the CPUC PM for review and approval.

The CPUC PM will issue an NTP for construction. In the event the NTP covers CDFW or other jurisdictional lands, the CPUC's NTP does not authorize construction to start, but only documents compliance with all relevant mitigation measures and permit conditions. No construction may occur on other jurisdictional lands without specific approval (i.e., issuance of permits) by those agencies.

**CPUC Environmental Monitors**

The overall monitoring program will be administered under the direction and oversight of the CPUC PM. The CPUC has delegated daily monitoring and reporting responsibilities to Dudek, a third-party monitoring firm. Individual roles are defined in Attachment B, Project Contact List. The number of CPUC EMs and frequency of site inspections will depend on the number of

concurrent construction activities and their locations with respect to sensitive resources and land uses, and compliance with project mitigation measures and permit conditions during construction.

CalPeco EIs have primary responsibility for ensuring that construction activities are conducted in accordance with approved project mitigation measures, compliance plans, and permit conditions. The role of the CPUC EMs (Dudek) is to ensure and document that compliance is being achieved using verbal and written communications.

- **Dudek Monitoring Manager.** The monitoring manager supervises Dudek's EMs, as well as determining the appropriate level of inspection frequency, and is responsible for weekly report preparation. The monitoring manager also serves as the main point of contact with the CPUC PM for major issues and noncompliance discussions.
- **CPUC Environmental Monitors.** CPUC EMs will be an integral part of the project team and will stay apprised of construction activities and schedule changes, and will monitor construction activities for compliance with project mitigation measures, compliance plans, and permit conditions. The CPUC EMs will document compliance through maintaining daily logs and using a mitigation measure tracking table. The CPUC EMs will also provide input for the draft weekly reports. The CPUC EMs will note problems with monitoring, notify CalPeco's LEI, and report the problems to the CPUC PM. The enforcement and shut-down authority of the CPUC EMs in the field is limited to issues that address imminent danger to resources. All other issues will be brought to the attention of the CalPeco EIs to address appropriately.

### 2.1.3 Mitigation Monitoring Program Contact List

A project contact list has been included as Attachment B. The contact list includes the names of CalPeco and CPUC EMs, PMs, supervisory staff, and other members of the project team. The list also includes phone numbers, cell phone numbers, and email addresses where project members can be reached during construction. The contact list will be updated periodically and redistributed to the project team.

## 2.2 Responsibilities

### 2.2.1 Monitoring

As the lead agency under CEQA, the CPUC is required to monitor this project to ensure that the required mitigation measures and APMs are implemented. The CPUC will be responsible for ensuring full compliance with the provisions of this monitoring program and has primary responsibility for implementation of the monitoring program. As mentioned in Section 2.1.2, the

CPUC has delegated monitoring responsibilities to a third-party monitoring firm. The CPUC EMs will be in the field on a regular basis, particularly when construction activities have the potential to impact a sensitive resource. Responsible agencies, such as the USFWS, CDFW, and RWQCB, may elect to monitor construction or conduct a site visit during construction.

CalPeco may elect to have one or more EIs on site on a daily basis to coordinate specialty monitors and assist construction crews with interpreting mitigation measures and correcting compliance problems in a timely manner. EIs would also provide environmental training, as required under Mitigation Measures BIO-3 and HAZ-1, as new workers arrive on the project.

### 2.2.2 Enforcement

The CPUC and other jurisdictional agencies are responsible for enforcing adopted monitoring procedures through the CPUC EMs assigned to each project component.

The CPUC has the authority to halt any construction activity associated with the CalPeco 625 and 650 Electrical Upgrade Project if the activity is determined to be a deviation from the approved project or adopted mitigation measures.

The CPUC EMs will also note problems with monitoring, notify designated project members, and report the problems to the CPUC PM.

Per Resolution E-4550 (May 9, 2013), the CPUC may impose fines in the event CalPeco does not comply with mitigation measures. CPUC staff will determine whether a fine is appropriate for noncompliance events consistent with Resolution E-4550. Examples of noncompliance that may result in fines being issued by CPUC staff include, but are not limited to, the following:

- Continuing construction after an authorized staff person has required construction to stop
- Starting construction components that have not been approved through an NTP
- Violating nest buffer zones
- Encroachment into an exclusion zone or sensitive resource area designated for avoidance
- Grading, foundation, line work, or other ground disturbance without required biological pre-construction surveys or biological monitor on site
- Use of new access roads, overland travel routes, staging areas, or extra workspaces that have not been approved
- Failure to properly maintain an erosion or sediment control structure
- Working outside of approved work hours
- Project personnel working without training.

Other jurisdictional agencies have the independent authority to halt construction, operation, or maintenance activities associated with the project within their respective jurisdictions if the activities are determined to be a deviation from the approved project, violate a permit condition, or put a sensitive resource at undue risk.

### 2.2.3 Mitigation Compliance

CalPeco is responsible for successfully implementing all the adopted mitigation measures in the MMCRP. Standards for successful mitigation also are implicit in many mitigation measures that include such requirements as obtaining permits or avoiding a specific impact entirely. Additional mitigation success thresholds may be imposed by applicable agencies with jurisdiction through the permit process.

## 2.3 Communication

Communication is a critical component of a successful environmental compliance program. In order to avoid project delays and possible shut-downs, environmental and construction representatives will need to interact regularly and maintain professional, responsive communications at all times. Similarly, CalPeco representatives will need to coordinate closely with CPUC EMs to address and resolve issues in a timely manner. Therefore, this section of the MMCRP provides a communication protocol to accurately disseminate information about ongoing surveys and mitigation measures, construction activities, contractors, and planned or upcoming work to all levels of the project team.

### 2.3.1 Pre-Construction Kickoff Meeting

A pre-construction meeting will be held with the CPUC, CalPeco, and CPUC EMs to review the MMCRP and mutually agree on the project's communication protocol. Based on discussion at the meeting and input from each party, Section 2 of this document will be revised and incorporated into the MMCRP.

### 2.3.2 Construction Progress Meetings

CalPeco will conduct field meetings, as needed, with construction managers, contract administrators, contractor supervisors, and CalPeco's environmental representatives to discuss work completed, work anticipated for the following period, and the status of mitigation measures. The field meetings will also be a forum for discussing environmental compliance issues or concerns with the construction contractors. CalPeco may request CPUC's EM(s) to participate in the meeting to help resolve any issue that may have arisen during the previous

period. Alternatively, CalPeco's EIs or CPUC's EM(s) may recommend a separate meeting to discuss mitigation, minor project refinement requests, or other project-related issues.

In addition to construction progress meetings conducted at the field level, the CalPeco PM, CalPeco construction manager, CalPeco EI, and the CPUC EM and/or CPUC PM may participate in a teleconference calls. The teleconference calls would be similar to construction progress meetings; however, the conference calls would focus on the MMCRP.

### 2.3.3 Daily Communication

Many of the problems that come up during construction can be resolved in the field through regular communication between CPUC EMs, CalPeco, and construction contractors. Field staff will be equipped with cell phones and available to receive phone calls at all times during construction. A project contact list has been included in Attachment B. The organizational chart (Figure 1) provided in Section 2.1.1 generally shows the lines of communication to be used during construction. The following sections provide additional guidelines to ensure effective communication in the field.

**CPUC EM**

The CPUC EM's primary point of contact in the field will be CalPeco's LEI, EIs, or CAs. The CPUC EM will contact CalPeco's LEI, EIs, or CAs (depending on which party is present on site) if an activity is observed that conflicts with one or more of the mitigation measures, so that the situation can be corrected. If the CPUC EM cannot immediately reach the LEI, or an EI or CA, then the CalPeco PM, EPM, or ECL will be contacted to address the problem. Similarly, the CPUC EM will contact CalPeco's LEI, EIs, or CAs for information on where construction crews are working, the status of mitigation measures, and schedule forecasts. The CPUC EMs will not direct the contractor; however, the EMs have the authority to stop work, assuming it is safe to do so, if an activity poses an imminent threat or puts a sensitive resource at undue risk (e.g., stopping a clearing crew from unknowingly cutting trees in an exclusion area).

**CalPeco**

CalPeco will provide the CPUC EMs with a list of construction monitoring personnel and construction supervisory staff to contact regarding compliance issues. The contact list will include each person's title, responsibility, and whether their position is segment specific. The contact list will be updated as new personnel are assigned to the project and redistributed as necessary.

CalPeco will prepare and distribute a weekly construction status and MMCRP compliance report (weekly report) to key project members, including the CPUC. The weekly environmental

compliance status reports may be reduced to bi-weekly if construction activities warrant a reduction and is approved by the CPUC PM. The CPUC PM will review the report to ensure that the status of mitigation measures is consistent with observations in the field. Any questions regarding the status of mitigation measures will be directed to the CalPeco ECL. The environmental compliance status report will also be a tool to keep all parties informed of construction progress and schedule changes.

### 2.3.4 Communicating Compliance Issues

Section 3.1.4 describes procedures to communicate issues/concerns with implementation of mitigation identified by the CPUC EMs during site inspections.

### 2.3.5 Coordination with Other Agencies

As discussed in Section 1.4, several local, state, and federal agencies have jurisdiction over portions of the project. In addition, many of the mitigation measures were derived from specific permit conditions or agency input. CalPeco will be responsible for contacting resource agencies and immediately notifying them of issues regarding their jurisdiction. The CPUC EMs may request copies of email correspondence, phone logs, or other documentation between CalPeco and resource agencies to avoid direct involvement from CPUC EMs. However, if there is an unresolved issue regarding compliance with a mitigation measure or permit requirement under the jurisdiction of a resource agency, the CPUC EMs may elect to contact the agency to discuss resolution. The CPUC EMs will coordinate this call with CalPeco and provide the opportunity to participate in the call.

# 3 ENVIRONMENTAL COMPLIANCE AND FIELD PROCEDURES

## 3.1 Mitigation Measures Compliance and Reporting

### 3.1.1 Pre-Construction Compliance Verification

CalPeco is required by the terms of the mitigation measures and the permitting requirements of various other regulating agencies to prepare plans and obtain approval of these documents, in addition to performing various surveys and studies prior to construction. Copies of this documentation will be retained by the CPUC EMs and provided to the CPUC with all files at the completion of the project. The plans, surveys, studies, and other documentation required to be completed by CalPeco before construction are listed in the APM and mitigation measure table in Section 4.3.

While these documents are being reviewed by the approving agencies, they are also reviewed by the CPUC. Construction may not start on any Project component until compliance with all applicable pre-construction mitigation measures and APMs has been verified and CalPeco receives a written NTP from the CPUC PM.

The CPUC EMs, including project management staff and the technical experts, will review all mitigation plans and reports and provide comments. Resource agencies will also be involved in the review of applicable plans and reports and will provide comments. Comments on these documents will be provided to CalPeco to ensure that they meet the requirements of the measure. For required local and state agency permitting/consultations, the CPUC EMs will track CalPeco's progress as it relates to CalPeco's construction plans and project mitigation and permitting requirements. Based on CalPeco's construction plans, CPUC may authorize construction to begin on a phased basis, and the CPUC EMs will handle pre-construction compliance review accordingly. CPUC may issue NTPs for construction of each phase separately, as soon as pre-construction compliance for that phase is satisfactorily accomplished.

The CPUC will not authorize construction to begin until all pre-construction requirements for a given phase have been fulfilled. To save time, CalPeco should identify extra workspace required for each phase of construction prior to the start of active construction, so that the locations and their use can be included in the NTP.

### 3.1.2 Notice to Proceed Procedures

The CPUC PM and Dudek will ensure that the NTP process is consistent with the adopted CEQA document. The NTP approval shall document that pre-construction mitigation

measure requirements, applicable surveys and studies, and project permit requirements have been met.

In general, an NTP request must include the following information:

- A description of the work
- Detailed description of the location, including maps, photos, and/or other supporting documents
- Verification that all mitigation measures and APMs have been met or do not apply to the work covered by the NTP request
- Verification that all applicable permit conditions or requirements, project parameters, or other project stipulations have been met for the work covered by the NTP request
- A request outlining what submittals are outstanding and how they will be met and approved in a timely manner prior to construction (if some outstanding compliance items cannot be met prior to issuance of the NTP)
- Up-to-date biological resource surveys or a commitment to survey and submit results prior to construction as necessary or required by mitigation measures and resource permit measures
- Cultural resource surveys or verification that no cultural resources would be significantly impacted as necessary or required by mitigation measures and resource permit measures
- All applicable jurisdictional permits or agency approvals (if necessary)
- Date of expected construction and duration of work.

The CPUC will review the NTP request and pre-construction requirement submittals per the steps outlined below to ensure that all information required to process the approval is included.

1. CalPeco submits the NTP to the CPUC PM. The CPUC will distribute the NTP request for review as follows:
    a. To the team biological resources expert for review for biological resources. Review questions/comments will be provided in a letter or email.
    b. To the team cultural resources expert for review of cultural resources. Review questions/comments will be provided in a letter or email.
    c. The remaining portions of the NTP request will be sent to issue-area reviewers where appropriate.

2. The CPUC will also review and, if needed, will prepare a bullet list of outstanding requirements and where additional information or clarification is needed.
3. All questions and comments, as well as required additional information or clarifications, will be sent to CalPeco by the CPUC in an email.
4. CalPeco will supply clarifications and/or additional information to be added to the NTP request in a memo or letter format along with responses addressing all comments and questions forwarded by the CPUC.
5. The CPUC will complete a compliance status table documenting compliance and any outstanding requirements that can be made conditions of the NTP.
6. The CPUC will review the draft NTP approval letter and send the approval and an updated compliance table to CalPeco.
7. The CPUC will then post the approved NTP documentation on the public CPUC project website.

### 3.1.3 Compliance Reporting

As described in Chapter 2, the CPUC EMs will perform compliance inspection throughout the construction period to ensure compliance with all applicable mitigation measures, plans, permits, and conditions of approval of the CPUC. Site visits may be coordinated with CalPeco or conducted unannounced. Supplemental information provided by CalPeco, including pre-construction submittals, survey reports, weekly reports, meeting notes, and agency correspondence, will also be used to verify compliance.

The CPUC EMs will document observations on site through the use of field notes and digital photography. The photos will be provided in the weekly reports and correlate to a discussion of specific construction or compliance activity. In addition, field inspection forms will be utilized in the field to document compliance of specific crews, construction activities, or resource protection measures. The forms will provide a standardized checklist to facilitate inspections, as well as listing mitigation measures that were verified during the site visit. Information gathered from the inspection forms and field notes will be used to generate weekly status reports and update the status of mitigation measures listed in Section 4.3. A sample site inspection form has been included in Attachment C. Weekly reports will be provided to all permitting agencies via email and/or posted on a CPUC public website during construction.

Separate enforcement actions by the regulatory agencies may not follow these steps.

### 3.1.4 Compliance Levels

The CPUC EMs and CalPeco's LEI or EIs shall document all observations and communications and will determine whether the observed construction activities are consistent with mitigation measures, APMs, and project parameters, as adopted by the CPUC. All compliance observations will be documented by the EIs daily and kept on file, which can be provided to all agencies upon request. Weekly compliance summary reports will be provided to the CPUC

The CPUC EMs will not direct the work of a construction contractor or subcontractor. A construction activity that deviates from permit conditions or mitigation measures, particularly when the activity puts a resource at risk, would be considered a noncompliance issue. A noncompliance issue may also be reported by the CalPeco LEI and/or a CPUC EM if a mitigation measure is not implemented according to the timing restrictions listed in the mitigation measure tables. Examples of noncompliance include, but are not limited to, the following:

- Use of new access roads, staging areas, or extra workspaces not identified on the project drawings or approved for use during construction
- Encroachment into an exclusion zone or sensitive resource area designated for avoidance
- Brush clearing outside the approved work limits
- Activity during seasonal activity restrictions
- Grading, foundation, or line work without required biological pre-construction surveys or a biological monitor on site
- Failure of erosion or sediment control structures if it puts a sensitive resource at risk
- Discharge of sediment-laden trench or foundation hole water into a water body or storm drain.

CalPeco will immediately notify the CPUC EMs and the CPUC PM if any noncompliance events occur, verbally or through email. CalPeco will follow up with a detailed written report of the event within 24 hours or at a time agreed upon with the CPUC PM. In the event the noncompliance is observed by a CPUC EM, the CPUC EM will immediately notify the designated CalPeco representative of a noncompliance issue that requires immediate corrective action. A noncompliance report (NCR) that outlines the incident will be sent to CalPeco from the CPUC PM. The NCR will list all actions required to bring the activity back into compliance and provide a timeline for follow-up. All NCRs and project memoranda will be made available upon request to agencies with resources that were potentially affected by activities reported in the NCR. If a construction activity or observed resource protection measure only slightly deviates from project requirements and does not put a resource at immediate risk, the CPUC EM and/or CalPeco ECL may elect to issue a project

memorandum to get the issue corrected. Construction activities that could result in a project memorandum include, but are not limited to, the following:

- Failure to properly maintain an erosion or sediment control structure, without structural failure occurring
- Use of an existing unapproved access road (first offense)
- Project personnel beginning work on site without proof of training
- Work outside the approved work limits where the incident is within a previously disturbed area, such as a gravel lot.

Through the issuance of project memoranda and NCRs, patterns of compliance issues can be discerned, preventive measures can be developed, and remedial work, if needed, can be scheduled.

Compliance trends would also be tracked in the weekly reports. Repeated events that individually might not be considered noncompliance may become noncompliance if continued occurrences are observed and documented after the initial incident. In other words, repeated incidents will result in noncompliance.

**Compliance and Noncompliance Violation Levels**

Project compliance and noncompliance violation levels and the specific corrective actions are defined below. The compliance and noncompliance violation levels should be utilized by both CalPeco LEI and CPUC EMs to document compliance levels throughout construction.

- **Level 0 Compliance.** This level indicates that all mitigation measures and permit conditions are being complied with and there are no violations. No corrective action is necessary.
- **Level 1 Minor Deviation.** This level indicates that a minor deviation from a mitigation measure has been identified and action is being taken in the field to immediately remedy the situation. No resources are being impacted and no potential for resource damage exists. If a minor deviation is not expeditiously corrected, it would become a Level 2 Noncompliance issue.
- **Level 2 Noncompliance**. One or more aspects of a mitigation measure have not been complied with, making the mitigation ineffective and resulting in minor impacts. If allowed to continue, this noncompliance could result in a significant impact over time. Noncompliance may also include one or more of the aspects of a mitigation measure not being complied with and the implementation of a mitigation measure being deficient or nonexistent, resulting in significant impact(s), or immediate threat of major, irreversible environmental damage or property loss. The protocol outlined above for an

NCR shall be completed in the event noncompliance is identified by a CPUC EM and/or the CalPeco LEI.

All noncompliance activity will be reported by Dudek and/or the CalPeco ECL to the CPUC PM via immediate notification or weekly reporting, depending on the severity of the noncompliance. Based on the severity or pattern of noncompliance activity, the CPUC PM has the authority to shut down project construction activities. If a shutdown of construction activity occurs, construction shall not resume until the CPUC PM authorizes it to do so. No Dudek personnel have the authority to shut down or restart construction activities on a component- or project-wide scale. However, CPUC EMs have the authority to redirect work if an immediate threat to safety of a sensitive resource is imminent.

## 3.2 Minor Project Refinements

The CPUC Energy Division may approve requests by CalPeco for minor project refinements that may be necessary due to final engineering of the 625 and 650 Electrical Line Upgrade Project so long as such minor project refinements are located within the geographic boundary of the study area of the Environmental Impact Report and do not, without mitigation, 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 environmental document; conflict with any mitigation measure or applicable law or policy; or trigger an additional permit requirement. CalPeco shall seek any other project refinements by a petition to modify the decision.

Requests for staff approval of a project change must be made in writing and should include the following:

- A detailed description of the proposed refinements, including:
    - An explanation of how the project refinement would deviate from the current project (include photos)
    - The original condition as described and approved
    - Justification for change
    - Maps and figures
    - Environmental impacts
    - Concurrence with other relevant agencies
- Whether certain resources are present within the proposed refinement (e.g., biological or cultural resources), and whether those resources were included in original baselines surveys and/or previous analysis (also include more recent preconstruction surveys, if applicable)

- Identification of applicable CEQA sections, potential impacts of proposed refinements, including original and new levels of impact and avoidance/minimization measures to be taken.

The CPUC PM may request additional information or a site visit in order to process the request. Possible examples of project refinements that may be approved by staff after final engineering include, but are not limited to:

- Adding a temporary extra work area (for the duration of construction) or substituting a work area, including lay-down and staging, for another work area that is as suitable or more suitable than the originally proposed work area.
- Adjusting the alignment of a project within the study area that was utilized in the original environmental analysis to avoid unanticipated impacts related to cultural artifacts, buried utility infrastructure, hazardous and toxic substances, and other land use impacts including effects on homeowners, so long as the adjustment does not create a new impact or a substantial increase in the severity of a previously identified impact.
- Adjusting the alignment of a project within the study area that was utilized in the original environmental analysis to avoid or adapt to conditions on the ground that vary from the conditions that existed at the time of the original environmental analysis, so long as the adjustment does not create a new impact or a substantial increase in the severity of a previously identified impact.

To initiate a project refinement request, CalPeco will fill out a Minor Project Refinement Request Form (see Attachment D), prepare the appropriate supporting documentation, and obtain the required signatures. CalPeco will complete and submit the Minor Project Refinement Request Form and supporting documentation by email (scanned copy) to CPUC with a copy to Dudek.

## 3.3 Records Management

Weekly status reports will be filed and used by the CPUC third-party EM firm to prepare a final environmental compliance report following the completion of construction. The final report will provide a discussion on how each mitigation measure was implemented and include copies of submittals required for compliance. In addition, the success criteria will be evaluated and used for future projects.

## 3.4 Public Access to Records

The public is allowed access to records and reports used to track the monitoring program. Monitoring records and reports will be made available by the CPUC for public inspection on request. In order to facilitate public awareness, the CPUC will make weekly reports and other pertinent project documents accessible on their website at http://www.cpuc.ca.gov/Environment/info/Dudek/sppc/CalPecoMain.htm.

# 4 MITIGATION MONITORING PROGRAM TABLE

## 4.1 Using the Table

Section 4.3 lists the APMs and mitigation measures included in the Final EIS/EIS/EIR, published on September 192014.

The APMs and mitigation measures, as written in the Final EIS/EIS/EIR and as adopted in the CPUC Decision (included below) will serve as the core document for environmental requirements on the project and will be the primary guideline for determining compliance with the MMCRP. A copy of the table should be kept with each crew working on site, and all supervisory staff working on the project should be familiar with its contents.

The CPUC will use a modified version of the mitigation measure tables during the pre-construction planning and construction monitoring phases of the project to accurately track the status of mitigation measures. The tables will be sorted and divided into pre-construction measures and measures to be implemented during construction. Similarly, a separate table listing mitigation measures that require CPUC approval may be generated.

## 4.2 Effectiveness Review

The CPUC may conduct a comprehensive review of conditions that are not effectively mitigating impacts at any time it deems appropriate. If in review the CPUC determines that any conditions are not adequately mitigating significant environmental impacts caused by the project, then the CPUC may impose additional reasonable conditions to effectively mitigate these impacts. These reviews will be conducted in a manner consistent with the CPUC's rules and practices.

## 4.3 Applicant Proposed Measures and Mitigation Measures

**Table 3, Applicant Proposed Measures and Mitigation Measures for Each Issue Area**, provides the mitigation measures that compose the mitigation monitoring program.

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| *Scenic Resources* | | | | | | | | |
| SCE-1 | The following measures will be implemented during construction:<br>• Construction activities will be kept as clean and inconspicuous as practical.<br>• Construction storage and staging will be screened, where practical, with opaque fencing from close-range residential views and public viewing areas.<br>• Slash treatment will be chipping, mastication, or lop and scatter as determined by the applicable land owner/manager.<br>• When "cut-tree" marks are utilized, marks will be placed on back sides of trees or away from views of the travelling public.<br>• Within the immediate to middle-distance foreground (300 feet), log skidding trails will be re-graded, to the degree possible, back to their original, natural contour and rehabilitated with vegetation.<br>• Non-affected timber and ground vegetation will be protected during harvesting and slash treatment.<br>• Trees and vegetation within the "clear zone" that do not pose a risk to power lines will be preserved.<br>• Visual diversity of the ground surface will be maintained through irregular scatter of limbs, seeding, and other means as practicable. | Construction-related visual impacts associated with grading and ground disturbance required for the installation of new structures and access roads could occur. While it is expected that these visual impacts would be short-term, this measure would minimize the potential for views from nearby residences and the general public to be significantly impacted during the duration of construction. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | • Barriers/boulders/downed logs will be placed in strategic locations to discourage the establishment of user-created trails. Implement restoration of temporary access ways in a manner that minimizes visibility from intersecting roads.<br>• Cut stumps will be 6-inch maximum height measured from the uphill side. | | | | | | | |
| SCE-2 | Self-weathering dark brown steel poles (CorTen), or equivalent, will be used for the power lines to reduce potential visual contrast. | This measure would require that the new power line poles be dark brown to blend with the color of the coniferous forest backdrop so that the poles would not substantially alter or degrade the existing visual character or quality of the project's setting. | | ✓ | ✓ | ✓ | ✓ | |
| SCE-3 | Non-specular conductors will be used for the power lines to reduce the potential for new sources of glare. Non-specular conductor has been either mechanically or chemically treated to reduce reflectivity and has a smooth matte finish which blends more naturally with the environment. | On the power lines, non-specular conductors would be used to reduce the potential for adverse impacts on views in the area as a result of glare from the conductors. | | ✓ | ✓ | ✓ | ✓ | |
| SCE-4 | A non-reflective finish will be used for substation equipment at all substations to reduce the potential for new sources of glare. | Using a non-reflective finish for substation equipment would minimize glare that could potentially adversely affect day or nighttime views in the area. | | | | | | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| SCE-5 | Screening through landscaping and non-vegetative means will be installed at the Tahoe City Substation to the degree that the rebuilt substation will not be obvious to the casual observer, and will account for public views of the substation from all sides. Plant material will be appropriate to the local landscape setting and will be consistent with CalPeco's technical requirements for landscaping in proximity to substation and transmission facilities. More specifically, the following will be implemented:<br>• With the property owner's permission, native conifer trees will be planted outside of the perimeter fence along the southwest and southeast sides of the substation site. Tree planting will replace existing trees that will be removed and will provide additional screening and landscape backdrop with respect to views from SR 89.<br>• With the property owner's permission, on the southeast side of the substation, a mixture of trees and tall shrubs will be planted along the recreational trail adjacent to SR 89 to provide additional screening.<br>• With the property owner's permission, at the western corner of the substation site, a mixture of shrubs will be planted outside of the perimeter fence in order to screen views from the recreation trail. | The Tahoe City Substation is located within a TRPA scenic roadway unit and vista, as identified in the Lake Tahoe Basin Scenic Resource Inventory. This measure provides for landscape screening to reduce the project's potential visual impacts from SR 89 and the recreation trail. | | | | | | ✓[2] |

[2] SCE-5 applies only to the Tahoe City Substation.

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| SCE-6 | Poles proposed in the vicinity of the highly visible clearing adjacent to Mount Watson Road will be placed so as to span the clearing or otherwise minimize their visibility from the Fiberboard Freeway. | In one location along the new 625 Line under Alternative 1 (PEA Alternative) and Alternative 2 (Modified Alternative), an angle pole would be located in an open clearing along Mount Watson Road. This pole has the potential to appear prominent from the roadway. This measure would require the relocation of the pole to the eastern edge of the clearing to reduce project visibility. | | ✓ | | | | |
| SCE-7 | In cases where replacement poles for the 650 Line are adjacent to SR 267 and will be visible in unobstructed foreground public views from the roadway, poles will be carefully sited to eliminate or substantially reduce their visibility from the highway within the Tahoe Basin as compared to the existing 650 Line without causing new visual impacts from tree removal or construction of access ways that will be required to erect and maintain the line. Any revised alignment or pole placement will be reviewed and approved by applicable land owners, agencies, and utilities. | This measure would require carefully siting replacement poles along the 650 Line to minimize their visibility from SR 267, which is identified as a scenic roadway unit in the Lake Tahoe Basin Scenic Resource Inventory. | | | ✓ | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| SCE-8 | In cases where replacement poles for the 625 Line are adjacent to the Truckee River and will be visible in unobstructed foreground public views along the river or adjacent trails, poles will be carefully sited to minimize their visibility. The westernmost pole on the south bank of the Truckee River where the power line crosses the river will be placed far enough from the river so as to be substantially unseen from the pedestrian bridge. The remaining poles along the south bank of the river will be located southward, outside the river corridor and behind the trees that line the riverbank such that visibility of the power line is minimized as viewed from SR 89, the Truckee River, and the pedestrian bridge. Any revised alignment or pole placement will be reviewed and approved by applicable land owners, agencies, and utilities. | This measure would require carefully siting replacement poles along the 625 Line to minimize their visibility from the Truckee River and adjacent 64-Acre Recreation Site | | ✓ | | | | |
| SCE-9 | In consultation with the USFS and to reduce potential project visibility, selective, site-specific conifer tree planting will be considered in limited areas along the new 625 Line route where relatively unobstructed foreground views of new structures are seen from Mount Watson Road. Placement of new trees will not conflict with project operations or safety requirements. | New conifer tree planting in selected areas would provide screening, thereby reducing the project's visibility and visual contrast from Mount Watson Road, which is a key public viewpoint. | | ✓ | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | | *Air Quality* | | | | | | |
| AQ-1 | The applicant will submit a Construction Emission/Dust Control Plan to the NSAQMD and PCAPCD for approval prior to ground disturbance or vegetation removal associated with construction of the proposed project. The Dust Control Plan will summarize the APMs related to emissions control during construction. | This measure would assist in preventing exceedances in air pollution control district thresholds for emissions of particulate matter (PM). | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-2 | Unpaved areas subject to vehicle access will be stabilized using water at least two times daily, or as needed to control fugitive dust. On NFS lands, unpaved roads will be watered at least as often as specified in Forest Service Handbook 2409.15 (USFS 1992). A locally approved chemical dust palliative, applied according to the manufacturer's recommendations, may be substituted for watering with approval from the applicable land owner/manager. | This measure would help ensure that dust abatement is implemented on a regular basis and as needed throughout construction and that only approved chemical dust palliatives would be used (where they are authorized). APM AQ-2, in conjunction with the other APMs for air quality, would assist in compliance with local air standards and plan thresholds for dust and PM. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-3 | All inactive, disturbed portions of the project's ROW will be covered, seeded, or watered, as needed to control fugitive dust, until suitable vegetative cover is established. | Watering, seeding, or covering of disturbed inactive areas would minimize fugitive dust and support compliance with local air quality thresholds. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| AQ-4 | Prior to any ground disturbance, sufficient water will be applied to the area to be disturbed in order to control fugitive dust emissions. | Watering the ground prior to disturbance would help to suppress dust. The measure, in conjunction with the other APMs for air quality, would support compliance with local air quality standards and thresholds. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-5 | If wind-driven fugitive dust cannot be stabilized using water or a chemical dust suppressant such that the resulting dust plume crosses the nearest property line, all grading and excavating activities must cease until dust can be effectively controlled. | This measure would limit the potential for fugitive dust to become a safety hazard or a nuisance to adjacent uses (such as roads and highways) and property owners during construction. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-6 | Exposed stockpiles (e.g., dirt, sand, etc.) will be covered and/or stabilized with water or a locally approved chemical dust stabilizer as needed to control fugitive dust emissions. When loading or unloading stockpiled material, material will be stabilized using water and/or drop heights will be minimized to control fugitive dust. | This measure is intended to reduce wind-driven fugitive dust from spoil stockpiles and when loading and unloading soil material. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-7 | Traffic speeds on unpaved roads and the ROW will be limited to 15 miles per hour. | This measure is intended to reduce fugitive dust by limiting vehicle speeds on unpaved access roads. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-8 | Construction vehicles and equipment will be cleaned to prevent dust, silt, mud and dirt from being tracked off-site prior to entering public roadways. | This measure is intended to avoid tracking silt, mud, and dirt onto public roadways and reduce fugitive dust emissions. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| AQ-9 | Any visible trackout deposited on paved, public roadways will be cleaned up at the conclusion of each workday or at 24-hour intervals for continuous operation. If trackout extends for a cumulative distance greater than 50 feet, it will be cleaned up within 1 hour. Trackout will be cleaned with a wet sweeper or vacuum device. | This measure is intended to reduce fugitive dust by keeping public roadways clean so that dirt deposited on road surfaces by construction equipment does not become dust due to vehicles traveling over it. This measure also provides guidance on when, where, and how trackout should be cleaned from roadways. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-10 | Trucks transporting bulk materials off-site will be maintained such that no spillage can occur from holes or other openings in the cargo compartments. Loads will be completely covered or the bulk material will be wetted and loaded to maintain 6 inches of freeboard from the top of the container. | This measure is intended to reduce fugitive dust by minimizing the potential for materials to blow out of or spill from the beds of haul trucks. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-11 | CalPeco will limit actively graded areas to a cumulative total of 5 acres per day in order to control fugitive dust. The total area of disturbance can exceed this acreage so long as the actively graded portion is below this threshold. | This measure would control the amount of earth disturbance occurring simultaneously on different project components in order to keep fugitive dust emissions below established thresholds. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-12 | Traffic will be controlled by flaggers or other methods, as necessary, to improve traffic flow along roadways in the project area. | Improving traffic flow along roadways would reduce idling time of vehicles. Reducing idling time would reduce vehicle emissions. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-13 | Construction activities in more populated areas will be scheduled during off-peak hours, to the extent practical, to minimize impacts to traffic flow. | This measure would improve traffic flow along roadways, which would reduce idling time of vehicles and the associated emissions. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| AQ-14 | Vehicle idling time will be limited to a maximum of 5 minutes for vehicles and construction equipment, except where idling is required for the equipment to perform its task. | As stated previously, reducing idling time would reduce emissions. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| AQ-15 | All off-road diesel engines with a rated output of greater than 100 horsepower will, at a minimum, meet the Tier II California Emissions Standards for Off-Road Compression Ignition Engines. If reasonably available, Tier III engines will be employed. | This measure would reduce the emissions of PM and oxides of nitrogen emitted by heavy construction equipment, which would help to reduce project emissions. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MM 4.13-1a | **Develop and Implement a Construction Equipment Exhaust Emissions Control Plan.** The applicant shall provide separate plans, for approval by PCAPCD and NSAQMD, demonstrating that the heavy-duty (50 horsepower hp] or more) land-based, off-road vehicles to be used for project-related demolition and construction activity in their respective jurisdictions, including owned, leased, and subcontractor equipment, shall achieve a project wide fleet-average 20 percent NOX reduction and 45 percent particulate reduction compared to the most current ARB fleet average that exists at the time of construction. Acceptable options for reducing emissions may include use of late-model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available. The applicant shall submit to PCAPCD and NSAQMD a comprehensive inventory of | Implementation of Mitigation Measure 4.13-1a would reduce exhaust emissions of PM10 from off-road construction equipment in Placer County by a minimum of 45 percent. A similar percent reduction in PM2.5 exhaust would also be achieved. A 45 percent reduction in PM10 exhaust would reduce the total maximum daily PM10 (i.e., PM10 exhaust and PM10 dust) in Placer County to less than 81 lb/day, which would occur during one week of the modelled 2014 construction season. The second daily maximum would be 71 lb/day. Detailed calculations of the reductions in PM10 resulting from Mitigation Measure 4.13-1a are provided in Appendix M, Air Quality Data. Also, fugitive PM10 and PM2.5 dust emissions | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | all off-road construction equipment, equal to or greater than 50 hp, that will be used an aggregate of 40 or more hours during any portion of the construction project. The inventories shall include the horsepower rating, engine production year, and projected hours of use for each piece of equipment. The inventories shall be updated and submitted monthly throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction activity occurs in the respective air district. At least 48 hours before the use of heavy duty off-road equipment, the applicant shall provide the respective air district with the anticipated construction timeline including start date, and name and phone number of the project manager and on-site foreman. The applicant shall use Sacramento Metropolitan Air Quality Management District's Construction Mitigation Calculator (SMAQMD 2012), which is approved by PCAPCD and NSAQMD, to identify an equipment fleet that achieves this reduction.<br><br>This measure does not apply to the use of a helicopter during construction activity because there are no state or federal emissions standards for helicopters and, therefore, no established set of state-wide emission rates. Also, the availability of a more emissions-efficient helicopter suitable for the project is unknown. | would also be controlled through integration of APM AQ-1, which requires the applicant to implement a Dust Control Plan that would be approved by PCAPCD and NSAQMD.<br><br>Implementation of Mitigation Measure 4.13-1a would reduce construction-related emissions of NOX by 20 percent in both PCAPCD's jurisdiction and NSAQMD's jurisdiction. NOX emissions generated in Placer County would be further reduced to levels below PCAPCD's threshold of 82 lb/day through payment by the applicant into PCAPCDs off-site mitigation fee program, as required by Mitigation Measure 4.13-1b.<br><br>NSAQMD, however, does not have an off-site mitigation fee program (Longmire, pers. comm., 2012, Murano, pers. comm., 2013). Thus, NOX generated by construction activity in Nevada County could be as high as 236 lb/day and exceed NSAQMD's threshold of 136 lb/day for up to 22 weeks. | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| MM 4.13-1b | **Pay Off-Site Mitigation Fee to PCAPCD to Off-Set NOX Emissions Generated by Construction Activity in Placer County.** The applicant shall pay an off-site mitigation fee into PCAPCD's Clean Air Grants Program for the purpose of reducing NOX emitted by project construction activities in Placer County to a less-than-significant level (i.e., less than 82 lb/day). The applicant shall provide a detailed construction schedule to PCAPCD before each construction season (i.e., May through October) that identifies when construction activities at different portions of the project site in Placer County may occur. The applicant shall calculate the fees associated with each construction phase in consultation with PCAPCD staff and the applicant shall pay the specific fee amounts to PCAPCD before each construction phase. The calculation of daily NOX emissions shall be based on the cost rate established by PCAPCD's Clean Air Grants Program at the time each calculation and payment is made. PCAPCD's Clean Air Grants Program is part of ARB's statewide Carl Moyer Memorial Air Quality Standards Attainment Program. The program provides grant funding for cleaner-than-required engines and equipment. Grants are administered by PCAPCD to support reductions in emissions of key pollutants which are necessary to meet clean air commitments under regulatory requirements. Eligible projects include | See MM 4.13-1a | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | cleaner on-road, off-road, locomotive, lawn and garden, light duty passenger vehicles being scrapped and agricultural equipment (ARB 2012; PCAPCD 2012). At the time of writing this EIS/EIS/EIR the cost rate is $17,080 to reduce 1 ton of NOX (ARB 2011; Kuklo, pers. comm., 2013). | | | | | | | |
| | | *Biological Resources* | | | | | | |
| BIO-1 | Prior to construction, all CalPeco, contractor, and subcontractor project personnel will receive training from a qualified resource specialist regarding the appropriate work practices necessary to effectively implement the APMs and to comply with the applicable environmental laws and regulations, including appropriate wildlife avoidance measures, impact minimization procedures, the importance of sensitive resources, and the purpose and methods for protecting such resources. Among other topics, the training will also include a discussion of BMPs to reduce the potential for erosion and sedimentation during construction. Additionally, CalPeco and designated environmental monitors for project construction will coordinate with the applicable public land owners/managers on communication, documentation and reporting, and data submittal protocols. | This measure is intended to provide all project personnel sufficient detail regarding the project's APMs, applicable environmental laws, regulations, and sensitive resources that have the potential to be encountered in the project area. This training would provide a basic level of environmental awareness to all project personnel. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| BIO-2 | CalPeco will conduct a complete floristic survey, including surveys for all special-status botanical species and invasive plants, during a time that coincides with the greatest number of blooming periods for target species. This survey will be conducted no more than one year prior to the start of construction. Occurrences of special-status botanical species and weed-infested areas will be flagged or fenced no more than 30 days prior to the start of construction. Flagging and fencing will be refreshed and maintained throughout construction. Implementation of this measure will occur in coordination with USFS | This measure would allow sensitive plants to be identified prior to construction and protected during construction. In addition, invasive plant populations would be avoided to the extent possible, thereby minimizing the potential spread of these species throughout the area by construction vehicles and equipment. | ✓ | ✓ | ✓ | ✓ | ✓ | |
| BIO-3 | CalPeco will complete an invasive plant risk assessment for all ground-disturbing activities. | This measure is being implemented to respond to the USFS requirement for a weed risk assessment. | ✓ | ✓ | ✓ | ✓ | ✓ | |
| BIO-4 | Before construction activities begin, CalPeco will treat invasive plant infestations where feasible. Treatments will be selected based on each species ecology and phenology. All treatment methods—including the use of herbicides—will be conducted in accordance with the law, regulations, and policies governing the land owner (e.g., TRPA in the Lake Tahoe Basin; LTBMU Forest Supervisor and Tahoe National Forest Supervisor on NFS lands). Land owners will be notified prior to the use of herbicides. In areas where treatment is not feasible, CalPeco will clearly flag or fence infested areas in order to clearly delineate work exclusion. Appropriate treatments will also be incorporated into tree removal and construction activities, | This measure would help prevent the accidental spread of invasive plants and invasive plants into new areas where they do not currently exist. This measure also manages herbicide use in the Lake Tahoe Basin. | ✓ | ✓ | ✓ | ✓ | ✓ | |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | such as a requirement that all cut live conifer stumps greater than 6 inches in diameter be treated with Sporax or an EPA-registered borate compound to prevent the spread of Annosus root disease. | | | | | | | |
| BIO-5 | Vehicles and equipment will arrive at the project area clean and weed-free and will be inspected by the on-site environmental monitor for mud or other signs that weed seeds or propagules could be present prior to use in the project area. If the vehicles and equipment are not clean, the monitor will deny entry to the ROW and other work areas. | This measure is intended to prevent the accidental introduction and spread of invasive plants via construction-related equipment by ensuring that the equipment is clean prior to use. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BIO-6 | Vehicles and equipment will be cleaned using high-pressure water or air at designated weed-cleaning stations after exiting an infested area. Cleaning stations will be designated by a botanist or invasive plant specialist and located away from aquatic resources. | This measure is intended to prevent the accidental spread of invasive plants from areas of existing infestation to areas of non-infestation. Thorough cleaning of vehicles is one of the most cost-effective and efficient means of controlling the spread of invasive plants. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BIO-7 | Only certified weed-free construction materials, such as sand, straw, gravel, seed, and fill, will be used throughout the project. | This measure would help prevent the introduction and spread of invasive plants from imported materials. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| BIO-8 | If invasive plant-infested areas are unavoidable, invasive plants will be cut, if feasible, and disposed of in a landfill in sealed bags or disposed of or destroyed in another manner acceptable to the USFS, TRPA, USACE, or other agency as appropriate. If cutting is not feasible, layers of mulch, degradable geotextiles, or similar materials will be placed over the infestation area to minimize the spread of propagules by equipment and vehicles during construction. These materials will be secured so they are not blown or washed away. | This measure would help prevent the spread of existing invasive plant infestations, if they are unavoidable during construction. Coordination with the applicable agency would promote proper implementation of the measure so that the spread of weeds is minimized. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BIO-9 | Exclusion zones will be established around any identified special-status botanical species. In consultation with a qualified biologist, CalPeco will first attempt to avoid effects of project implementation on special-status plants and protect occurrences *in situ*. In the event that a special-status plant occurrence cannot be avoided by construction activities, CalPeco will notify CPUC, CDFW, TRPA, and/or USFS, as applicable depending on the species regulatory status. CalPeco will consult with CDFW, TRPA, and/or USFS in order to establish appropriate mitigation measures. If seed collection or transplantation are selected as appropriate mitigations, then the following measures will apply: a) CalPeco will collect any mature seeds from the affected plants and store them at an appropriate native plant nursery or comparable facility; b) upon the completion of work, CalPeco will redistribute the seeds within the original | This measure is intended to prevent or compensate for impacts to rare plants, including *Plumas ivesia*. Consulting with the CDFG in the event the measure cannot be implemented would promote protection of the species. | ✓ | ✓ | ✓ | ✓ | ✓ | |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | location of the occurrence; c) CalPeco will establish performance standards for survivorship and will also monitor and document the success rate of the transplanted individuals for three consecutive growing seasons; d) if performance standards are not met, corrective measures will be implemented and monitoring and adaptive management continued until success criteria are met. Specifically for Plumas ivesia: if, through consultation with an occurrence's land manager, it is determined that Plumas ivesia plants cannot be avoided or protected *in situ*, then CalPeco will attempt to relocate all Plumas ivesia individuals. Plants that cannot be avoided during construction will be relocated to suitable habitat surrounding the 650 Line. If relocation is unsuccessful, CalPeco will consult with the CDFW and USFS in order to determine the cause of relocation failure and to establish appropriate corrective remedial measures. | | | | | | | |
| BIO-10 | Any special-status botanical species identified during the floristic surveys will be documented, photographed, and submitted to the CNDDB. CalPeco will notify and provide documentation to CPUC, CDFW, TRPA, and/or USFS, as applicable depending on the species listing status. | Identification and documentation of rare plants would be included in a widely used database, providing increased scientific knowledge regarding species. | ✓ | ✓ | ✓ | ✓ | ✓ | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| BIO-11 | CalPeco will conduct protocol-level surveys during the appropriate season prior to construction in a particular area to determine whether northern goshawks or California spotted owls are nesting in planned work areas within suitable habitat along the new 625 Line, existing 625 Line, and 650 Line, including USFS-designated PACs or Home Range Core Areas (HRCAs). | This measure would identify the locations of any nesting California spotted owls and northern goshawks so they can be avoided during construction, as described in APM-BIO-12. | ✓ | ✓ | ✓ | | | |
| BIO-12 | No vegetation management or treatment or other construction activities, other than vehicle passage on existing roadways, will occur within 0.25 mile of active California spotted owl nests during the breeding season (March 1 to August 31) or within 0.50 mile of active northern goshawk nests during the breeding season (February 15 to September 15), unless protocol-level surveys confirm that the birds are not nesting. A qualified biologist will have the ability to amend the start and end dates of these breeding seasons with concurrence from appropriate agencies if it can be determined that breeding has not started or that fledglings have left the nest. If the location of a nest site within a PAC is unknown, either surveys are required to locate the nest stand and determine nesting status or, as an alternative to surveys, an activity buffer will be applied to the 0.25-mile area surrounding the PAC. The activity buffer may be waived for activities of limited scope and duration, when a biological evaluation determines that such projects are unlikely to result in | This measure is intended to avoid impacts to nesting California spotted owls and northern goshawks. The measure also provides for any changes to vegetation management to be approved by the appropriate agency. | ✓ | ✓ | ✓ | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | breeding disturbance considering their intensity, duration, timing, and specific location. Where a biological evaluation concludes that a nest site will be shielded from planned activities by topographic features that will minimize disturbance, the buffer distance may be modified in coordination with the USFS. | | | | | | | |
| BIO-13 | To offset permanent removal of suitable habitat within designated PACs and HRCAs, CalPeco will assist the USFS in locating additional suitable habitat immediately adjacent to the PAC or HRCA removed to form a new PAC to support the USFS's goal of establishing additional PACs and maintaining specific acreages of California spotted owl and northern goshawk PACs and HRCAs. The amount of suitable habitat designated as a PAC or HRCA for each species is as follows: a spotted owl PAC is 300 acres, a northern goshawk PAC is 200 acres, and a spotted owl HRCA is 1,000 acres. CalPeco will coordinate with the USFS to identify areas of interest and understand the desirable components or key criteria of suitable habitat used for PAC and HRCA designation. As an alternative to assisting USFS in locating additional suitable habitat adjacent to a PAC or HRCA, CalPeco will provide monitoring support for new PAC or HRCA areas established by USFS as a result of the project. The specific objectives, timing, and duration of monitoring will be agreed upon by CalPeco and USFS. | This measure is intended to offset permanent impacts to California spotted owl and northern goshawk habitat by providing additional survey efforts in locations chosen in consultation with the USFS or funding for surveys, restoration, or protection of habitat. | ✓ | ✓ | ✓ | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| BIO-14 | CalPeco will conduct protocol-level surveys for willow flycatcher in the Martis Valley, within suitable habitat that could be affected by project activities associated with segments 650-4, 650-4A, and 650-4B. Suitable habitat within 200 feet of these segments is identified in Exhibit 4.7-7. (Additional suitable habitat not shown on Exhibit 4.7-7 is present along Martis Creek adjacent to these segments and may require consideration for surveys.) The survey will follow *A Willow Flycatcher Survey Protocol for California* (Bombay et al. 2003). The protocol requires a minimum of two survey visits to determine presence or absence of willow flycatcher: one visit during survey period 2 (June 15–25) and one during either survey period 1 (June 1–14) or period 3 (June 26–July 15). This measure is based on willow flycatcher sightings made in 2007 during field surveys to support the PEA, recent CNDDB records, and habitat mapping conducted during the 2012 surveys. If nesting willow flycatchers are discovered within the survey area, 250-foot exclusionary buffer zones will be established to exclude work during the breeding season—June through August—or until young have fledged the nest. If an area is given clearance to proceed with construction and nesting activities subsequently occur, it will be assumed that the nesting pair is acclimated to the ongoing disturbance of construction. If circumstances exist such that future | This measure is intended to avoid impacts to nesting willow flycatchers by defining survey locations and appropriate buffer zones. | | | ✓ | | | |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | activities may result in the abandonment or failure of the nest, as determined by a qualified biologist, an appropriate exclusionary buffer will be established by CalPeco, in coordination with the CDFW, to protect nesting birds. | | | | | | | |
| BIO-15 | Preconstruction biological surveys will be conducted no more than 30 days prior to construction activities to identify biological resources, including burrows and den sites, which could be impacted by construction activities. All burrows and den sites will be inspected for use by sensitive mammals, and buffers may be established based on occupation. If an area is given clearance to proceed with construction and burrowing or denning activities subsequently occur, it will be assumed that the individuals are acclimated to the ongoing disturbance of construction. However, the den will be flagged to prevent damage during construction. If circumstances exist such that future activities may result in the abandonment of the burrow or den site, as determined by a qualified biologist, an appropriate exclusionary buffer will be established by CalPeco, in coordination with CDFW, USFS, and, if necessary, the USFWS. | This measure is intended to identify sensitive mammals and burrows in the project area in order to facilitate the implementation of avoidance measures and lessen potential impacts. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | | | | |
| | | | *Existing* | *New* | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| BIO-16 | If a potentially active sensitive mammal burrow or den site is unavoidable, CalPeco will employ den-dusting or scoping to determine the species and reproductive status of the animal. If the burrow or den is determined to be active and does not contain young, CalPeco will excavate the burrow by hand, remove the den, or block the entrance to prevent re-entry until after the completion of work. If the animal is determined to be raising young, CalPeco will establish a 200-foot exclusionary buffer surrounding the burrow or den until it is determined that the young have left the den. After it is determined that young have left the den, CalPeco will commence hand excavation or removal of the den structure. CalPeco will contact CDFW, USFS and/or USACE prior to any den-dusting, scoping, burrow excavation, or den structure removal. | The measure would protect sensitive young mammals in active burrows through the implementation of appropriate exclusionary buffers around the burrows. The measure also requires that any burrows (not containing young) are excavated so that animals are not harmed during construction activities. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BIO-17 | Concurrent with the preconstruction surveys described in APM BIO-15, surveys will be conducted for amphibians, including eggs or juveniles, at aquatic habitat crossed by the project. If adults, juveniles, or eggs of sensitive amphibians are discovered, a permitted specialist will relocate the individuals to suitable habitat outside of the construction area. If amphibians are discovered in the construction area after the start of work, the environmental monitor will allow the individuals to leave under their own volition. As an alternative, an agency-approved biologist may relocate | This measure is intended to identify sensitive amphibians in the project area so that they can be relocated or allowed to leave construction areas unharmed. The measure also calls for appropriate agency coordination in the event of a required relocation. | ✓ | ✓ | ✓ | ✓ | ✓ | |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | the individuals from the project area to similar, suitable habitat. CalPeco will coordinate with the CDFG, USFWS, USFS, and/or USACE prior to relocating any individuals. If it is determined that surveys would have potential to result in harassment or other forms of take of a federally listed species (e.g., Sierra Nevada yellow-legged frog), survey and potential relocation methods will be coordinated with and authorized by USFWS. | | | | | | | |
| BIO-18 | For bird species not specifically addressed in other APMs, nesting bird surveys will be conducted no more than 30 days prior to construction activities if work is scheduled to occur during the breeding season—March to September. Exclusionary buffer zones (to be determined based on species-specific needs) will be created surrounding any active nests along the project alignment. Buffers will be established by a qualified biologist prior to the start of construction. If an area is given clearance to proceed with construction and nesting subsequently occurs, it will be assumed that the individuals are acclimated to the ongoing disturbance of construction. If circumstances exist such that future activities may result in the abandonment or failure of the nest, as determined by a qualified biologist, an appropriate exclusionary buffer will be established by CalPeco in coordination with the CDFW, USFS, and/or USACE. | This measure is intended to identify and protect nesting birds during the avian breeding season, thus complying with state endangered species and migratory bird protection laws and lessening any impact. | ✓ | ✓ | ✓ | ✓ | ✓ | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| BIO-19 | Power poles will be constructed to conform to the practices described in the Suggested Practices for Avian Protection on Power Lines Manual developed by the Avian Power Line Interaction Committee (2006). | This measure is intended to help prevent accidental injury or mortality of avian species, which could occur from electrocution. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BIO-20 | Bat surveys will be conducted in the spring, no more than 30 days prior to the start of construction, in order to identify active bat roosting sites, such as snags or dense trees. All potential roosting sites will be surveyed by a qualified biologist in order to determine usage. Specific survey methodologies will be determined in coordination with CDFW and the appropriate land manager (e.g., USFS, USACE). All non-active roosting sites will be trimmed within 30 days of the surveys in order to prevent new roosts from being established. If it is determined that an active roosting site will be impacted, CalPeco will consult with CDFW, USFS and/or USACE in order to acquire appropriate authorizations to remove the roosting sites. All active non-maternity roosting sites will be fitted with passive exclusion devices, such as one-way doors, and all bats will be allowed to leave voluntarily. Once it is confirmed that all bats have left the roost, crews will be allowed to continue work in the area. If a maternity roosting site is discovered, CalPeco will consult with the CDFW, USFS and/or USACE in order to establish appropriate exclusionary buffers until all young are determined to be volant by a qualified biologist. Once it is determined that all young are volant, passive exclusion | This measure is intended to avoid potential impacts to bats and bat roosting sites in the project area. By conducting preconstruction bat surveys in the appropriate season, active bat roosting sites would be identified and could be protected through the implementation of this measure. | ✓ | ✓ | ✓ | ✓ | ✓ | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | devices will be installed and all bats will be allowed to leave voluntarily. Once it is determined by a qualified biologist that all bats have left the roost, crews will be allowed to work within the buffer zone. | | | | | | | |
| BIO-21 | Qualified environmental monitors will be present with each crew during all vegetation-removal activities to help ensure that impacts to biological resources are minimized to the extent possible. For all other construction activities, monitors will be allowed to cover up to 5 miles of the project area at once to allow multiple crews to work in close proximity to each other at the same time. Environmental monitors will have the authority to stop work or direct work in order to help ensure the protection of resources and compliance with all permits. | The highest potential of encountering sensitive species occurs during initial clearing and vegetation removal. This measure specifies the appropriate coverage area for the environmental monitors. The measure is intended to place a qualified biologist with each clearing crew to prevent accidental harm or take of sensitive species and promote compliance with project permits. | ✓ | ✓ | ✓ | ✓ | ✓ | |
| BIO-22 | An environmental monitor will inspect all pole excavations and areas of active construction on a daily basis for trapped wildlife. Wildlife found in active construction areas will be allowed to passively leave the site. If necessary, wildlife may be relocated by a qualified biologist. The construction foreman will notify the environmental monitor immediately if any wildlife enters or becomes trapped in the work area. | This measure is intended to minimize wildlife entrapment in open excavations or trenches. This measure is also intended to help ensure that in the event that wildlife does inadvertently enter construction areas, individuals would be allowed to passively escape. Further, should an animal fail to escape on its own, this measure provides that qualified individuals would remove the animal unharmed. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| BIO-23 | Topsoil, where present, will be salvaged in areas that will be graded or excavated. Topsoil will be segregated, stockpiled separately from subsoil, and covered. These soil stockpiles, as well as any others created by the proposed project, shall have the proper erosion control measures applied until they are removed. The topsoil will then be replaced to the approximate location of its removal after project construction has been completed to facilitate revegetation of disturbed areas. Top soil will not be salvaged from areas infested with invasive plants. | This measure would facilitate restoration and revegetation of disturbed areas and help ensure that topsoil is not lost or mixed with subsoil. This measure would help prevent the accidental spread of invasive plants into new areas where they do not currently exist. | ✓ | ✓ | ✓ | ✓ | ✓ | |
| BIO-24 | If invasive plant infestations are later identified throughout the course of construction in staging areas, parking areas, or access routes, they will be treated according to APM BIO-4 and BIO-8. | This measure would help prevent the accidental spread of invasive plants into new areas where they do not currently exist. | ✓ | ✓ | ✓ | ✓ | ✓ | |
| BIO-25 | If the environmental monitor determines that construction is occurring in an active mule deer fawning area, they will have the authority to temporarily halt or relocate work until the fawns move out of the project area. In addition, helicopter flight paths may be rerouted to avoid these areas if it is determined that helicopter use may impact fawns. | This measure is intended to avoid impacts to mule deer and mule deer fawns that might be sensitive to construction activity and helicopter noise. | ✓ | ✓ | ✓ | | | |
| BIO-26 | Work areas will be clearly marked with fencing, staking, flagging, or another appropriate material. All project personnel and equipment will be confined to delineated work areas. In the event that work must occur outside of the work area, approval from lead and other agencies with jurisdiction over the property will be obtained prior to the commencement of activities. | Clearly delineating work areas and requiring activities to be performed only in the designated areas would minimize impacts to sensitive habitat and species located outside of the work areas, and would limit the project's overall disturbance. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| BIO-27 | Helicopters will be used, where necessary, to avoid impacts to waterways or in areas of rough terrain. Appropriate measures, including regular watering, will be implemented at landing zones in order to control dust. Helicopter use within HRCAs, PACs, and TRPA disturbance zones will be prohibited if vegetation treatment restrictions are concurrently in place. | Using helicopters near waterways or in areas of rough terrain would protect habitat and eliminate the need to grade new access roads in those areas. Because helicopter use has the potential to increase fugitive dust, the dust control techniques identified in this measure would be implemented. Because helicopter-related noise also has the potential to impact nesting northern goshawk and California spotted owl, use within PACs and HRCAs may be limited. | ✓ | ✓ | ✓ | ✓ | ✓ | |
| BIO-28 | CalPeco will minimize vegetation and tree removal to only the areas necessary for construction, with particular attention given to minimizing effects on riparian areas and preserving trees greater than 30 inches diameter at breast height (dbh). | This measure would minimize impacts to habitat, particularly in sensitive riparian areas. | ✓ | ✓ | ✓ | ✓ | ✓ | |
| BIO-29 | Skidding of trees will not be permitted in waters of the United States or waters of the State, including wetlands. Within these waters tree removal may be conducted by hand, use of cable systems, helicopter yarding, or use of ground based equipment when determined suitable for ground based mechanical harvest. Any work conducted in the vicinity of waters of the United States, waters of the State, and wetlands will have an environmental monitor present, consistent with the requirements of APM WQ-4. Other APMs applicable to the protection of aquatic resources will also be implemented. | This measure would reduce potential temporary impacts to aquatic resources and existing drainage patterns during construction. | ✓ | ✓ | ✓ | ✓ | ✓ | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| BIO-30 | Prior to commencing construction in any area containing aquatic resources or potential wetlands, a qualified biologist will conduct a delineation of waters of the United States according to methods established in the USACE wetlands delineation manual (Environmental Laboratories 1987) and Western Mountains, Valleys, and Coast Region Supplement (Environmental Laboratories 2010). The delineation will map and quantify the acreage of all aquatic habitats on the project site and will be submitted to USACE for verification. CalPeco will determine, based on the verified wetland delineation and the project design plan, the acreage of impacts on waters of the United States and waters of the state that will result from project implementation. Impacts will be avoided to the extent practicable through the siting of poles and other facilities outside of delineated waters of the United States and waters of the state. Work in wetlands or wet meadow habitats with saturated soil conditions will be scheduled when soils are dry to the extent possible. If soils become saturated, timber mats will be installed along all vehicle and equipment access routes to minimize rutting. Prior to disturbance of waters of the United States or waters of the state, an environmental monitor will record via photographs and field notes the pre-disturbance condition of the water. Disturbed waters will be restored to preconstruction conditions and seeded | Temporary impacts to wetlands, aquatic resources, and existing drainage patterns would be minimized and avoided during construction as a result of this measure. This measure would also help ensure that there is no permanent net loss of waters of the United States upon completion of the project. This measure also requires that disturbed wetlands are restored per RWQCB and USACE specifications. | ✓ | ✓ | ✓ | ✓ | ✓ | |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | with a native species, consistent with the vegetation community present prior to disturbance, to stabilize the soils and minimize the introduction of invasive plants, as specified by the USACE and RWQCB. In accordance with the USACE "no net loss" policy, all permanent wetland impacts will be mitigated at a minimum of a 1:1 ratio. This mitigation will come in the form of either contributions to a USACE-approved wetland mitigation bank or through the development of a Compensatory Mitigation and Monitoring Plan aimed at creating or restoring wetlands in the surrounding area (although creation is not authorized by TRPA in their jurisdiction). | | | | | | | |
| BIO-31 | Visibility permitting, all excavations will be inspected for sensitive aquatic wildlife prior to dewatering. Wildlife found in excavations will be allowed to leave passively or will be relocated by a qualified biologist. | This measure is intended to prevent mortality of sensitive species due to the use of dewatering pumps and other machinery. This measure also requires that, in the event that wildlife inadvertently enters an excavation and is unable to escape passively, a qualified individual would remove the animal. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BIO-32 | If dewatering of an excavation is needed, all dewatering pump intakes will be fitted with filter screening to prevent impacts to aquatic wildlife that may accidentally enter excavations. Water will not be pumped directly from rivers, streams, ponds, or other waters of the U.S. or wetlands (although as stated above, dewatering of excavations is permitted). | Installation of dewatering pump intake screens would help ensure that aquatic wildlife are not harmed during dewatering of excavations. Prohibitions on pumping water from rivers, streams, ponds and similar features would prevent the accidental entrainment of aquatic wildlife in pumps. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| BIO-33 | All trash and food will be removed from the site at the end of each workday in order to deter wildlife from entering the site. | This measure is intended to prevent attracting wildlife to the project area. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BIO-34 | No pets or firearms will be allowed in the project area. | This measure is intended to prevent hunting, accidental injury, harassment, or killing of native and sensitive wildlife. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BIO-35 | No harm, harassment, or collection of plant and wildlife species will be allowed. Feeding of wildlife will be prohibited. | This measure is intended to avoid impacts to sensitive plant and animal species. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BIO-36 | Prior to construction, CalPeco will develop a Restoration Plan that will address final clean-up, stabilization, and revegetation procedures for areas disturbed by the project. The plan will be consistent with, and implement related commitments and requirements included in the EIS/EIS/EIR project description, other APMs, mitigation measures, and agency permit requirements. The Restoration Plan will address loosening of any compacted soil, restoration of surface residue, and reseeding. If existing unpaved roads require modification to temporarily allow passage of construction equipment during the construction period, these roads will be returned to their original footprint after construction is complete. On NFS lands, restoration activities will be designed and implemented to meet invasive plant management guidelines and Visual Quality Objectives (VQO) for the area. Areas temporarily disturbed by cut and fill activities will be re- | Development and implementation of a Restoration Plan would help ensure that landowners and agencies are consulted regarding restoration, that the project area is returned to preconstruction conditions, and that long-term restoration procedures are identified. | ✓ | ✓ | ✓ | ✓ | ✓ | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | graded to blend with the natural topography. On public land, CalPeco will coordinate with the land management agency to determine an appropriate seed mix or tree planting plan as well as other elements of the plan applicable to lands managed by the agency. On private land, CalPeco will coordinate with the landowner and/or provide the landowner with a suggested seed mix based on consultation with the agency of jurisdiction. The plan will include approved seed mixes, application rates, application methods, methods to record pre-disturbance conditions, success criteria for vegetation growth, monitoring and reporting protocols, and remedial measures if success criteria are not met. If broadcast seeding is determined to be the most feasible application method, seeding rates will be doubled relative to the standard seeding rate and the seeding method rationale will be explained. The plan will also include long-term erosion and sediment control measures, slope stabilization measures, criteria to determine the success of these measures, remedial actions if success criteria are not met, and monitoring and reporting procedures. As part of normal equipment inspections during project operation, an evaluation of access ways will be conducted to confirm that use has not resulted in compaction that will result in “coverage” per TRPA standards. | | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| BIO-37 | Decommissioning the existing 625 Line ROW and allowing natural regeneration of coniferous forest and other native vegetation types will assist in offsetting or reducing the permanent loss of trees and other vegetation along the new 625 Line ROW. Prior to the removal of poles and conductor, a qualified biologist or soil scientist will identify areas of the abandoned ROW that contain unnaturally compacted soil (resulting from unauthorized public use, development of user-created trails, or other factors) that could limit the natural reestablishment of vegetation and assess whether local treatments will be needed to facilitate native vegetation recruitment and development. CalPeco will consult with the applicable land owner/manager to verify that areas identified for treatments are appropriate (e.g., not part of a system road, authorized trail network, or other desired use) and secure approval for restoration. Restoration of these sites will be overseen by a qualified biologist and will likely consist of a combination of the following.<br>• Barricade existing access points and post appropriate signage to discourage use. Also incorporate into restoration actions minimizing the visibility of potential access points from intersecting roadways.<br>• Loosen compacted soil to a depth of 6 to 8 inches.<br>• Incorporate logs, boulders, mulch and other materials into the disturbed area to discourage use. | Revegetation along the existing 625 Line would partially offset the impacts to habitat and species as a result of the tree removal associated with the new 625 Line. | ✓ | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | • Apply appropriate erosion control BMPs (e.g., installation of check dams, mulch, log and/or rock stabilization) in areas where evidence of sheet, rill, or gully erosion exists.<br>• Seed with a certified weed-free seed mix, approved by the applicable land owner/manager, containing native, site-appropriate species.<br>• Apply 1 to 2 inches of locally obtained mulch such as pine needles, wood chips, or tub grindings.<br>• Monitor for new invasive plant invasions and expansion of existing weed populations following treatments, and implement weed control measures where needed. Post-treatment monitoring for invasive plants will be conducted annually for up to three years, similar to the frequency and duration specified for USFS land in the USFS Invasive Plant Risk Assessment prepared for the project.<br>• Conduct post-treatment monitoring and reporting every two years for up to 10 years, to evaluate success of restoration treatments. The details of the monitoring and reporting program, including identification and implementation of potential adaptive management actions based on monitoring results, will be developed jointly by CalPeco, TRPA, and the land owner/manager. | | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| MM 4.7-2a | **Compensate for Unavoidable Loss of Stream and Riparian Habitat.**<br><br>The following measures would be implemented to avoid or compensate for the loss or degradation of stream or riparian habitat, ensure consistency with Fish and Game Code Section 1602, and further reduce potential adverse effects on riparian habitats:<br>• CalPeco shall compensate for permanent riparian habitat impacts at a minimum of a 1:1 ratio through contributions to a CDFW approved wetland mitigation bank or through the development and a 1:1 ratio through contributions to a CDFW approved wetland mitigation bank or through the development and creating or restoring in-kind habitat in the surrounding area. If mitigation credits are not available, stream and riparian habitat compensation shall include establishment of riparian vegetation on currently unvegetated bank portions of streams affected by the project and enhancement of existing riparian habitat through removal of nonnative species, where appropriate, and planting additional native riparian plants to increase cover, continuity, and width of the existing riparian corridor along streams in the project site and surrounding areas. Construction activities and compensatory mitigation shall be conducted in accordance with the terms of | | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | a streambed alteration agreement as required under Section 1602 of the Fish and Game Code.<br>• The Compensatory Stream and Riparian Mitigation and Monitoring Plan shall include the following:<br>o identification of compensatory mitigation sites and criteria for selecting these mitigation sites;<br>o in kind reference habitats for comparison with compensatory riparian habitats (using performance and success criteria) to document success;<br>o monitoring protocol, including schedule and annual report requirements (Compensatory habitat shall be monitored for a minimum of five years from completion of mitigation, or human intervention (including recontouring and grading), or until the success criteria identified in the approved mitigation plan have been met, whichever is longer);<br>o ecological performance standards, based on the best available science and including specifications for native riparian plant densities, species composition, amount of dead woody vegetation gaps and bare ground, and survivorship; at a minimum, compensatory mitigation planting sites must achieve 80 percent survival of planted riparian trees and shrubs by the end of the five-year maintenance | | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 625 Line | | 650 Line | 132/650 Line Double-Circuit | Northstar Fold | Substations |
| | | | Existing | New | | | | |
| | and monitoring period or dead and dying trees shall be replaced and monitoring continued until 80 percent survivorship is achieved;<br>o corrective measures if performance standards are not met;<br>o responsible parties for monitoring and preparing reports; and<br>o responsible parties for receiving and reviewing reports and for verifying success or prescribing implementation or corrective actions. | | | | | | | |
| MM 4.7-2b | **Compensate for Unavoidable Loss of SEZ.**<br>The following measures would be implemented to ensure consistency with TRPA Code Section 61.3 and Fish and Game Code Section 1602 and further reduce potential adverse effects on SEZs, streams, and riparian habitat:<br>• Within the Tahoe Basin, all reasonable alternatives, including bridge spans, pole spans, and facility relocation; shall be implemented to avoid or reduce the extent of encroachment into SEZs.<br>• In instances where there is no feasible alternative to avoid an SEZ, CalPeco shall mitigate all impacts within the boundaries of SEZs by restoring SEZ habitat (land capability district 1b) in the surrounding area, or other appropriate area as determined by TRPA, at a minimum ratio of 1.5:1, consistent with TRPA Code. | Implementation of these mitigation measures would reduce the significant impacts on sensitive habitats to a less-than-significant level because it would ensure that sensitive habitat is avoided to the extent feasible and that sensitive habitats that cannot be avoided are restored following construction, or if the habitat cannot be restored, that the applicant compensates for unavoidable losses in a manner that results in no net loss of sensitive habitats. | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | • CalPeco shall retain a qualified restoration ecologist to prepare a restoration plan (see APM BIO-36) that will address final clean-up, stabilization, and revegetation procedures for areas disturbed by the project. The restoration plan for SEZs shall include the following:<br>○ identification of compensatory mitigation sites and criteria for selecting these mitigation sites;<br>○ complete assessment of the existing biological resources in the restoration areas;<br>○ in kind reference habitats for comparison with compensatory SEZs (using performance and success criteria) to document success;<br>○ monitoring protocol, including schedule and annual report requirements (Compensatory habitat shall be monitored for a minimum of five years from completion of mitigation, or human intervention (including recontouring and grading), or until the success criteria identified in the approved mitigation plan have been met, whichever is longer);<br>○ ecological performance standards, based on the best available science and including specifications for native plant densities, species composition, amount of dead woody vegetation gaps and bare ground, and survivorship; at a minimum, compensatory mitigation planting | | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 625 Line | | 650 Line | 132/650 Line Double-Circuit | Northstar Fold | Substations |
| | | | Existing | New | | | | |
| | sites must achieve 80 percent survival of planted vegetation by the end of the five-year maintenance and monitoring period or dead and dying plants shall be replaced and monitoring continued until 80percent survivorship is achieved;<br>o corrective measures if performance standards are not met;<br>o responsible parties for monitoring and preparing reports; and<br>o responsible parties for receiving and reviewing reports and for verifying success or prescribing implementation or corrective actions. | | | | | | | |
| MM 4.7-4 | **Conduct a Tree Survey; Avoid Late Seral/Old-Growth Forest; Compensate for Loss of Trees.**<br><br>A Registered Professional Forester (RPF) shall conduct a focused tree survey to identify, map, and tabulate the number of trees in each relevant size class (6 inches or greater on non-Federal lands in Placer County, greater than 14 inches within the jurisdiction of TRPA, greater than 24 inches eastside, greater than 30 inches westside) that would be removed as a result of the project.<br><br>Following completion of the focused tree survey, a timber harvest/tree removal plan shall be prepared by a | Implementation of this mitigation measure would reduce the significant impacts associated with tree removal, conflict with county tree protection ordinances, and loss of late seral/old growth forest to a less-than-significant level because it would ensure that tree removal and old growth forest removal are avoided to the extent feasible and that the applicant compensates for unavoidable losses | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | RPF. The plan shall include applicable APMs and additional necessary prescriptions for tree removal, water quality protection, protection of preserved trees, slash disposal, fire protection, and tree replacement. The plan shall contain all information required to be in a tree information report under the Placer County tree ordinance, for obtaining a tree removal permit. The plan shall comply with the minimum standards for tree removal, as described under TRPA Code 61.1.6 and with CAL FIRE timber harvesting plan standards, as applicable, under the Forest Practice Act. Before implementing any project activities that involve tree removal, the timber harvest plan shall be submitted to CAL FIRE for review and approval. Once approved, the plan shall be incorporated into the project design and all conditions of approval shall be implemented. CalPeco shall obtain a tree removal permit from TRPA for tree removal within the Lake Tahoe Basin.<br><br>For construction on non-Federal lands within Placer County, CalPeco will implement APM BIO-36 and APM BIO-37 to restore vegetation disturbed by the project and offset the loss of trees in the new 625 Line; however, this may not be sufficient to fully offset the loss of trees resulting from project implementation. If it is determined that the loss of trees protected under County ordinance cannot be fully offset through | | | | | | | |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | implementation of APM BIO-37, CalPeco shall either replace trees at an off-site location or contribute to the County's Tree Preservation Fund; as determined in coordination with the County and in accordance with the Placer County Tree Ordinance (12.16.080 Replacement program and penalties). Before Improvement Plans are approved, the applicant shall provide proof to the County that one, or a combination, of the mitigation options described above has been completed and/or funded. Proof of mitigation fulfillment will also be provided to CDFW.<br>CalPeco shall avoid loss of old growth forest to the extent feasible. If loss of late seral/old growth forest is unavoidable, CalPeco shall compensate for the loss of late seral/old growth forest through the development and implementation of a forest management plan, prepared by a RPF, to facilitate establishment of late seral/old growth forest stands and enhance existing late seral/old growth forest stands. The forest management plan shall include management actions, such as fuels and vegetation treatments, to facilitate and enhance old-growth development within the existing 625 Line to be removed and/or other potential treatment areas. The forest management plan shall clearly describe how the project shall achieve TRPA threshold standards for late seral/old growth forest enhancement, identify priority locations where enhancement actions could be | | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | implemented to achieve the plan's objectives, and include a funding component for late seral/old growth forest enhancement projects. The forest management plan shall be approved by TRPA before removal of any forest stands identified as late seral/old growth forest. | | | | | | | |
| MM 4.7-5 | **Utilize Local Native Seed and Notify Noxious Weed Coordinator.** CalPeco shall utilize locally collected native seed sources for revegetation when possible. Plant and seed material shall be collected from or near the project area, from within the same watershed, and at a similar elevation when possible and with approval of the USFS botanist. Persistent nonnatives such as cultivated timothy (Phleum pretense), orchard grass (Dactylis glomerata), or ryegrass (Lolium spp.) shall not be used. After the project is completed, the USFS noxious weed coordinator shall be notified so that the project area can be monitored by the USFS if desired. Monitoring could be for up to three years (as funding allows) subsequent to project implementation to ensure additional nonnative invasive species do not become established in the areas affected by the project and to ensure that known nonnative invasive species do not spread. | Implementation of the APMs and this mitigation measure would reduce and prevent potentially significant impacts from the introduction and spread of invasive plants because the applicant would be required to treat, avoid or mitigate effects from known invasive plant infestations prior to construction; revegetate temporary disturbance areas with native vegetation and locally collected native plants and seeds; clean weed seed and propagules from equipment so they are not introduced as part of construction activities; utilize weed-free materials to prevent new introductions; and monitor after construction is completed to ensure new infestations do not become established. | | | | | | |
| *Cultural Resources* | | | | | | | | |
| CUL-1 | To the extent feasible, project design will avoid disturbance to significant heritage and cultural resources recommended or considered eligible for listing in the | This measure documents the applicant's intent to avoid cultural resources where possible. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | NRHP or CRHR. Avoidance may be achieved by various means such as placing poles outside the resource and spanning conductor across the resource and adjusting access way boundaries to avoid a resource. Resources to be avoided within the APE, or those immediately adjacent to the APE, will be designated as exclusion zones for all construction activity, including tree removal, and will be clearly marked with fencing, staking, flagging, or another appropriate material. Signage will be placed on the markers identifying the exclusion zone and stating that construction vehicles, equipment, and personnel are not permitted in the exclusion zone. If complete avoidance is not feasible, construction and/or tree removal methods will be implemented that minimize potential impacts, such as hand excavating holes with an archeological monitor present to inspect spoils and using a helicopter for pole placement to avoid vehicles passing over the resource. Appropriate construction methods for each situation will be developed in coordination with a qualified archeologist, the land owner/manager, relevant federal or state agencies, and Native American representatives if a Native American site. | | | | | | | |
| CUL-2 | The proposed Northstar Golf Course Staging Area is located adjacent to a known heritage and cultural resources site considered eligible for listing in the NRHP or CRHR. If needed, the boundary of the staging area | This measure stipulates avoidance techniques so that potential impacts to a known cultural resource would be avoided. | | | | | | ✓ |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | will be adjusted to provide at least a 10-foot buffer between the edge of the staging area and the identified edge of the resource site. A temporary barrier such as a fence or K-rail will be installed at the edge of the staging area adjacent to the resource site. Signage will be placed on the barrier identifying the exclusion zone and stating that construction vehicles, equipment, and personnel are not permitted in the exclusion zone. | | | | | | | |
| CUL-3 | If impacts to known, unevaluated archaeological resources cannot be avoided, a detailed test excavation plan and research design that follows the Secretary of the Interior's standards and guidelines will be developed to evaluate the sites that will be impacted. The plan and research design will be provided to the relevant federal or state agencies and the SHPO for review and approval before implementation. If such sites are determined ineligible for National Register or California Register listing (with concurrence from the SHPO), the sites will require no further consideration. If any of the tested resources are determined eligible to either register (with SHPO concurrence), a detailed data recovery plan will be developed for those parts of the resources that would be damaged or destroyed by the project, and provided to the relevant federal or state agencies and the SHPO for review and approval. Results of test excavations and data recovery will also be provided to Tribal representatives. Data recovery excavations may be sufficient to reduce impacts to the resources to the less-than-significant level. | If unevaluated archaeological resources could not be avoided, this measure requires that they are evaluated per the Secretary of Interior's standards and guidelines, and in coordination with the SHPO. This measure also defines the procedures to follow for both eligible and ineligible sites, and requires the SHPO's concurrence with the determination. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | | | | |
| | | | *Existing* | *New* | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| CUL-4 | If impacts to historic-era resources cannot be avoided during project activities, the resources will be evaluated by a qualified historical archaeologist in coordination with relevant federal or state agencies. If the resources are determined ineligible for National Register or California Register listing (with SHPO concurrence), the resources will require no further consideration. If any of the resources are determined eligible to either register (with SHPO concurrence), a detailed treatment plan will be developed for those resources, and provided to the relevant federal or state agencies and SHPO for review and approval. Treatment may include additional archival research and/or field recordation | Several identified historic-era resources require more detailed analysis if they could not be avoided. This measure requires a detailed treatment plan for those resources that are determined to be eligible for listing on historic registers. | | ✓ | ✓ | ✓ | ✓ | |
| CUL-5 | As outlined at 36 CFR part 800, the implementing regulations of Section 106 of the NHPA, if NRHP-eligible heritage and cultural resources will be adversely affected by a proposed undertaking, a Memorandum of Agreement (MOA) or Programmatic Agreement (PA) will be developed and signed by appropriate parties (i.e., the LTBMU, Tahoe National Forest, USACE, ACHP, California SHPO, CPUC, interested tribes, local governments, and other parties) to identify appropriate treatment measures and implement procedures for mitigating adverse effects to the resources. If it is determined that the NRHP-eligible resources cannot be avoided or preserved in place through identification of construction exclusion zones, through route/project re-design, or capping an archaeological site with soil, | Implementation of this measure would reduce potential impacts to NRHP-eligible heritage and cultural resources. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | mitigative treatment may include data recovery, archival research, and/or field recordation consistent with APMs CUL-3 and CUL-4, excavation as mitigation (data recovery restricted to the parts of the resource that would be damaged or destroyed by the project), archaeological monitoring during construction, Tribal monitoring, a plan for unanticipated discoveries, curation, reporting, or similar measures. Compliance with the requirements of Section 106 of the NHPA will also result in compliance with Chapter 67 Resource Protection of the TRPA Code of Ordinances, including Section 67.3.3 Resource Protection Plan. | | | | | | | |
| CUL-6 | CalPeco will ensure completion of heritage and cultural resources survey of all areas within the ultimate project APE of the selected alternative that have not already been surveyed, such as property where access was not previously available, future minor changes in the alignment of the power line and access roads or the location of other components that may be proposed because of engineering constraints, the need to avoid other sensitive resources, and other considerations. Each of these unsurveyed areas will be added to the project's APE as appropriate, and will be intensively surveyed prior to ground disturbance to document and record the presence or absence of heritage and cultural resources. The work may require preparation of a supplemental inventory report for review and approval by the relevant federal or state agencies. Where landowners may legally | Implementation of this APM would help ensure proper identification and recordation of heritage and cultural resources within the APE prior to the start of construction ground-disturbing activities.<br>Should tree removal be required outside of the APE, this measure requires that the area is surveyed for cultural resources so that known cultural resources are avoided. In the event that unevaluated resources cannot be avoided, this measure requires their proper evaluation and treatment. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | limit the ability to conduct surveys, the survey area may be restricted to only the area of ground disturbance, or other accommodations made in coordination with lead agencies participating in the Section 106 process (e.g., intensive monitoring during ground disturbance).<br>Prior to any tree removal activities associated with project construction that occur outside of the APE in which cultural resources surveys have been completed, a cultural resources survey of the area will be performed by a professional archaeologist to help ensure no known resources would be impacted. If cultural resources are discovered, they will be treated consistent with the requirements of other applicable APMs. | | | | | | | |
| CUL-7 | CalPeco will design and, with agency approval, implement a Worker Environmental Awareness Program (WEAP) that will be provided to all construction personnel and supervisors who will have the potential to encounter and alter heritage and cultural resources. The topics to be addressed in the WEAP will include, at a minimum:<br>• types of heritage and cultural resources expected in the project area;<br>• types of evidence that indicates heritage or cultural resources might be present (e.g., ceramic shards, trash scatters, lithic scatters);<br>• roles and responsibilities of the construction monitors;<br>• importance of avoiding areas flagged or otherwise | Implementation of this mitigation measure would assist in reducing potential project impacts by ensuring construction workers are educated about site protection requirements. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | identified as sensitive;<br>• what to do if a worker encounters a possible resource;<br>• what to do if a worker encounters bones or possible bones; and<br>• penalties for removing or intentionally disturbing heritage and cultural resources, such as those identified in the Archeological Resources Protection Act (ARPA). | | | | | | | |
| CUL-8 | Prior to construction, CalPeco will prepare for agency approval a Construction Monitoring and Unanticipated Discovery Plan that will present, in detail, procedures to be implemented during construction (e.g., numbers of archaeological and Native American monitors, the qualifications of monitors [expertise in Washoe cultural resources], buffer zones, work stoppage guidelines). At a minimum, if a potential heritage or cultural resources is discovered, construction will be halted within 50-feet of the site until a qualified archeologist can evaluate the find. If the archeologist can determine at the time that the find would not be eligible for the NRHP or CRHR and does not contain human remains, construction may proceed after the find is properly documented and/or collected. Otherwise, applicable elements of other APMs will be implemented.<br>The Construction Monitoring and Unanticipated Discovery Plan will also discuss procedures for immediate work stoppage and treatment in the event of discovery of human remains during construction activities. | Implementation of this measure would help to ensure that actions taken by field personnel are compliant with the measure in this document and applicable regulations. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | | | | |
| | | | *Existing* | *New* | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| CUL-9 | If human remains are discovered, all work within 50 feet of the discovery site will halt immediately. CalPeco will notify the County Coroner, as stipulated in Section 7050.5 of the HSC. The Coroner will determine whether the remains are Native American and, if so, will contact the NAHC by telephone within 24 hours. The commission will follow the stipulations in Section 5097.98 of the PRC, including notification of those persons it believes to be most likely descended from the deceased Native American. If the commission is unable to identify a descendant, the descendant is unable to make a recommendation, or the landowner rejects the recommendation, the NAHC will mediate any dispute between the parties. Where such mediation fails to provide measures acceptable to the landowner, the landowner shall reinter the human remains and associated funerary items with appropriate dignity on the property, in a location not subject to further subsurface disturbance.<br>If human remains are discovered on federally managed lands, the provisions of NAGPRA will apply. For NAGPRA-associated discoveries, it may be necessary to provide 24-hour, on-site security. | The measure would help ensure that human remains encountered during construction are treated in consistence with applicable laws and regulations. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CUL-10 | The WEAP prepared for other resources will also address the identification and appropriate treatment of potential fossil finds. If fossils or other paleontological resources are encountered during construction, all work will be halted within a 30-foot radius of the find and a | The measure would help ensure that impacts to paleontological resources encountered during construction are avoided or the resources are properly evaluated and/or recovered by a qualified | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | qualified paleontologist will be contacted to examine the find and evaluate its significance. If the find is deemed to have scientific value, the paleontologist and CalPeco will formulate a plan to either avoid impacts or to continue construction without disturbing the integrity of the find (e.g., by carefully excavating the material containing the resources under the direction of the paleontologist followed by routine conservation, laboratory preparation, and curation). | individual. | | | | | | |
| | | *Geology, Soils, and Seismicity* | | | | | | |
| SOILS-1 | Sediment control structures, such as silt fencing, coir logs, wattles, straw mulch, and straw bale check dams will be installed, as appropriate and effective given the situation, to contain sediment within construction work areas and staging areas. Where soils and slopes exhibit high erosion potential, additional sediment control structures, such as erosion control blankets, matting, and other fabrics may be installed. Implementation and maintenance of these BMPs and any others identified in the SWPPP will be monitored by a qualified environmental monitor to ensure effectiveness. In addition, a winterization plan will be prepared and incorporated into the SWPPP addressing erosion and sediment management on the project site during the winter months. Implementation, monitoring, and maintenance of BMPs will be adjusted accordingly during the winter months consistent with the winterization plan. | This measure would control erosion that could occur as a result of construction and complement implementation of required plans. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| SOILS-2 | A California Registered Professional Geologist or a California Registered Civil or Geotechnical Engineer will conduct a geotechnical analysis and prepare a Geotechnical Engineering Report that will be used to develop the final design of all project components (access ways, staging areas, substations stations, and poles) in order to avoid or minimize damage related to geologic hazards, including seismic activity, slope stability, and soil limitations (expansive and unstable soils) and to ensure that all applicable codes and seismic standards are adequately addressed in the design and construction of the project. The report will address and make recommendations on the following:<br>• Access way and road design;<br>• Structural foundations;<br>• Grading practices;<br>• Erosion/winterization;<br>• Special problems discovered on-site (i.e., groundwater, expansive/unstable soils, etc.);<br>• Slope stability; and<br>• Post-construction restoration.<br>The Geotechnical Engineering Report will also incorporate construction standards required by the CPUC and standards recommended by the Institute of Electrical and Electronics Engineers (IEEE 693), "Recommended Practice for Seismic Design of | This measure helps ensure that site-specific conditions are considered in the final design of the project and requires documentation from a Professional Engineer that the project design meets all applicable regulations and safety standards. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | Substations." The final design will be reviewed and approved by a Professional Engineer registered in the State of California prior to construction. The Geotechnical Report will be provided to the lead agencies. It is the responsibility of the applicant to provide for engineering inspection and certification that earthwork has been performed in conformity with the recommendations contained in the report. | | | | | | | |
| | | *Hazards and Hazardous Materials* | | | | | | |
| HAZ-1 | Prior to construction, all CalPeco, contractor, and subcontractor project personnel will receive training regarding the appropriate work practices necessary to effectively implement the APMs to comply with the applicable environmental laws and regulations associated with hazardous materials. | This measure would reduce the potential of an accidental release of hazardous materials, promotes proper clean-up and handling of spilled material, and reduces unnecessary exposure of hazardous materials to workers and the public by training project personnel on appropriate work practices. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| HAZ-2 | Prior to the ground disturbance at the Brockway Substation parcel, if disturbance is determined to be necessary, a Phase I environmental site assessment (ESA) will be conducted for the site to determine if there is any surface or subsurface contamination. Recommendations included in the Phase I ESA will be implemented. If hazardous materials are identified, | Phase I and Phase II ESAs would help ensure that future use of the Brockway Substation parcel would not result in a significant hazard to the public or the environment from unknown contaminated soils. | | | | | | ✓[3] |

[3] HAZ-2 and HAZ-3 apply only to the Brockway Substation.

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | recommendations could include, but would not be limited to, a Phase II ESA and/or cleanup of known identified hazardous wastes. If contamination is found to be present, remediation will occur in accordance with all applicable federal, state, and local regulations. | | | | | | | |
| HAZ-3 | During the Brockway Substation decommissioning process, the existing equipment to be removed will be tested in accordance with federal, state, and local standards to determine appropriate recycle, reuse, or disposal alternatives. | This measure would help ensures that workers and the public would not be exposed to hazardous materials, such as asbestos or lead, during the decommissioning and removal of the Brockway Substation. In addition, it requires the recycling or reuse of materials where feasible. | | | | | | ✓[3] |
| HAZ-4 | CalPeco will coordinate with the Truckee-Tahoe Airport Land Use Commission (ALUC) to obtain approval of the height increase for the 132/650 Line double-circuit and the 650 Line to help ensure that the project will not create a new airport hazard in accordance with the Truckee-Tahoe ALUC Plan. | The measure requires coordination, communication, and approval of the height increase for the 132/650 Line double-circuit and the 650 Line, so that the project would not conflict with the Truckee-Tahoe ALUC Plan and that an airport safety hazard would not result. | | | ✓ | ✓ | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| HAZ-5 | Prior to construction, CalPeco will prepare a Fire Suppression and Prevention Plan that will discuss necessary fire equipment to be stored at the project staging areas, appropriate protective wear, preconstruction and construction fire prevention measures, fire-fighting methods, and notification procedures in the event of a fire. This plan will be submitted to the USFS and/or TRPA, or other applicable land management agency for review and approval prior to the start of construction. | This measure would reduce the potential to start a wildland fire during construction of the project. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| HAZ-6 | Smoking will only be allowed in designated cleared areas or enclosed vehicles to reduce the potential for wildfires. | This measure would reduce the potential to start a wildland fire during construction of the project. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MM 4.10-2 | **Implement Blasting Safety Measures**<br><br>If blasting is required as part of project construction, CalPeco shall hire a blasting contractor licensed by the Federal Bureau of Alcohol, Tobacco, and Firearms and who possesses all other necessary licenses and certifications applicable to blasting in the project area. Prior to construction activities that require the use of explosives, the blasting contractor shall prepare and submit a Blasting Safety Plan (or similar document as required) to the Placer County Engineering and Surveying Division and the local fire protection district or department in which the blasting activity will take place. The plan shall, at a minimum, address the following.<br>• Evidence of licensing as required by the US | Implementation of the above mitigation measure would substantially reduce the hazards to the public and construction personnel from blasting by ensuring that blasting would be conducted by a qualified professional using applicable safety measures for site specific conditions. | | | | | | |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | Department of Justice, Bureau of Alcohol, Tobacco, Firearms and Explosives, experience, and qualifications of all members of the blasting team.<br>• Pre-blast notifications to the local fire department, residents, landowners, land management agencies, utilities, and others potentially affected by blasting operations.<br>• The means for safe transportation and on-site storage and security of explosives in accordance with local, state and federal regulations.<br>• The minimum acceptable weather conditions for blasting.<br>• Minimum clearance distances between blasting and nearby land uses.<br>• Traffic control standards and traffic safety measures (if applicable).<br>• Requirement for provision and use of personal protective equipment.<br>• Minimum standoff distances and description of blast impact zones and procedures for clearing and controlling access to the impact zones.<br>• Procedures for handling, setting, wiring, and firing explosives. Also, procedures for handling misfires per federal code.<br>• Type and quantity of explosives and description of detonation device. Sequence and schedule of | | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | blasting rounds, including general method of excavation, lift heights, etc.<br>• Methods of matting or covering of blast area to prevent flyrock and excessive air blast pressure (where applicable).<br>• Dust control measures in compliance with applicable air pollution control regulations (to interface with general construction dust control plan).<br>• Emergency Action Plan to provide emergency telephone numbers and directions to medical facilities. Procedures for action in the event of injury.<br>• Storage of and access to Material Safety Data Sheets for each explosive or other hazardous materials to be used.<br>• Description of the insurance for the blasting work. | | | | | | | |
| MM 4.10-3 | **Prepare and implement a Hazardous Materials Contingency Plan**.<br><br>A hazardous materials contingency plan shall be prepared that describes the necessary actions that would be taken if evidence of contaminated soil or groundwater is encountered during construction. The contingency plan shall identify evidence that could indicate potential hazardous materials contamination, including soil discoloration, petroleum or chemical odors, presence of USTs, or buried building material. | Implementation of this mitigation measure, described above, would substantially reduce potential hazards to the public and construction personnel from encountering unknown or undocumented hazardous materials during project construction by requiring the avoidance, identification, and treatment of hazardous materials that might be found. | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | The plan shall include measures to protect worker safety if signs of contamination are encountered (e.g., stopping work in the vicinity of the potential contamination), identify sampling and analysis protocols for various substances that might be encountered (e.g., volatile organic compounds, hydrocarbons, heavy metals), and list required regulatory agency contacts if contamination is found. The plan shall also identify legal and regulatory processes and thresholds for cleanup of contamination. The project applicant shall retain the services of a qualified environmental contractor to prepare the contingency plan. The plan, and obligations to abide by and implement the plan, shall be incorporated into the construction and contract specifications of the project. The requirements of the plan shall be incorporated in the APM and work practices training that would be implemented as part of APM HAZ-1. | | | | | | | |
| MM 4.10-5 | **Power line shall be installed in compliance with height requirements approved by the Truckee Tahoe Airport Land Use Commission.**<br>If, as part of ALUC height review, any proposed power poles are classified as a hazard to flight by the ALUC, the pole heights shall be adjusted to conform with ALUC height requirements, as long as heights do not violate design and safety standards. Minor route adjustments within the existing 200-foot wide resource survey corridor may also be | Implementation of the above mitigation measure would result in consistency with the Truckee Tahoe Airport ALUCP, would prevent power poles from generating a potential safety hazard for aircraft entering or leaving the runways, and would therefore also prevent a hazard from aircraft to people residing or working in the project area. | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | considered to assist in meeting height requirements. If a sufficient height reduction cannot be achieved, the power line in this area shall be installed underground. | | | | | | | |
| | | *Hydrology and Water Quality* | | | | | | |
| WQ-1 | All refueling will be conducted at least 100 feet away from waterways, within designated refueling stations. If refueling within 100 feet of a waterway or RCA is unavoidable, CalPeco will require that spill kits are on site, install secondary containment to control accidental spills, and notify an environmental monitor prior to fueling. Environmental monitors will regularly inspect refueling areas to help ensure that proper measures are being implemented in accordance with the project's SWPPP and Spill Prevention, Control and Countermeasure (SPCC) Plan. | This measure would help ensure that impacts to waterways as a result of accidental spills would be avoided during the refueling of equipment. It includes inspections to address proper implementation and compliance with the SWPPP and SPCC Plan. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| WQ-2 | All concrete washouts will be conducted either into excavations where the concrete was poured, within designated concrete washout areas, or will be captured using a washout-recycling system. Crews will not be allowed to dispose of concrete directly onto the ground. | Because the use of concrete near aquatic resources has the potential to affect water quality by increasing the pH levels, this measure requires proper handling and disposal of concrete so that it would not contribute to water quality degradation. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| WQ-3 | Where feasible (e.g., landowner approval is provided, sufficient space with permeable surfaces is available, slopes are gentle enough to allow control of potential sediment transport), all stormwater or groundwater removed from excavations will be discharged overland into well-vegetated areas to promote the settling of sediment. If overland discharge is not possible, then water removed from excavations will be collected, treated, and disposed of consistent with requirements of the Lahontan Regional Water Quality Control Board and any other agencies with jurisdiction over the activity. | This measure would help ensure that dewatering activities would not increase the potential for sedimentation and degradation of aquatic resources. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| WQ-4 | When working near aquatic resources, poles and trees will be cut by hand and felled away from such features (unless there is an ecological reason to do otherwise that is approved by applicable regulatory agencies, such as adding coarse woody debris to a stream to enhance fish habitat). The skidding of poles and trees through aquatic resources will not be permitted. Within Stream Environment Zones (SEZs) poles and trees will be removed by hand, by cable system, or by helicopter. No mastication will occur in SEZs and no chip material will be left in SEZs unless approved for erosion control. Vehicles and equipment will be staged away from aquatic features, along designated access routes or within staging areas. If there are circumstances where disturbance to the bank or channel of an aquatic feature is unavoidable, CalPeco will restore the banks and channels to preconstruction | This measure would reduce potential temporary impacts to aquatic resources and existing drainage patterns during construction by mandating avoidance and/or restoration of the resources. By requiring the presence of an environmental monitor, CalPeco would help ensure that impacts are avoided where possible, that activities are documented, and that these features are adequately restored. | ✓ | ✓ | ✓ | ✓ | ✓ | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | conditions immediately afterwards. An environmental monitor will be present in all instances where disturbance to an aquatic feature may occur to ensure conditions of this APM and any other applicable APMs, permit conditions, and mitigation measures are complied with. | | | | | | | |
| WQ-5 | When construction activities are required adjacent to flowing streams or rivers, work will be conducted during low-flow conditions (i.e., when surface flow is restricted to the low-flow channel, as confirmed by the environmental monitor). | This measure would minimize potential water quality impacts from sedimentation and erosion that could occur if work is conducted within close proximity to flowing waterbodies. In low-flow conditions, the distance between the water and the work area would increase, thereby reducing the potential for water quality degradation. | ✓ | ✓ | ✓ | ✓ | ✓ | |
| WQ-6 | In areas where topsoil has not been salvaged, construction activities will be limited when the environmental monitor determines that the soil is too wet to adequately support vehicles and equipment. Where soil conditions are deemed too wet to work, one of the following measures will apply.<br>Access will be limited to the minimum area feasible for construction. Where possible, vehicles and equipment will be routed around wet areas so long as the re-route does not cross into sensitive resource areas.<br>If wet areas cannot be avoided and soil moisture is too high to strip topsoil, BMPs, including the use of wide-track or low ground pressure equipment or installation of prefabricated equipment pads or timber mats, will be implemented for use in these areas to minimize rutting and off-site sedimentation. | The measure would minimize rutting and associated damage to topsoil. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | | | | |
| | | | *Existing* | *New* | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| WQ-7 | CalPeco will minimize vehicle and equipment usage within and crossing of stream channels and other aquatic resources consistent with the requirements of other APMs. If vehicles and equipment must cross stream channels or other aquatic resources, CalPeco will construct shoo-fly access roads, install culvert crossings, or use other methods to access either side of the resource or utilize existing bridges, where feasible, in order to minimize the need to install temporary bridges. Limit crossings to no more than one for every 800 feet of channel. If there are no existing crossings and the construction of shoo-fly roads or other crossing methods may cause greater resource impact, CalPeco will install timber mats, slash mats, or other materials suitable for a temporary bridge. If bridges are installed over streams with discernible flow, all attempts will be made to span the channel. Temporary crossings on ephemeral or intermittent drainages will be constructed and removed, to the maximum extent feasible, when the channels are dry and will be removed before the winter season begins. These crossings will be designed to not obstruct water flow and fish passage and to accommodate flows from a 1 inch or greater precipitation event. | This measure would minimize impacts to aquatic resources and water quality by avoiding stream channels and other aquatic resources whenever possible. If aquatic resources could not be avoided, this measure would help ensure that temporary impacts from project construction would not substantially alter existing drainage patterns. | ✓ | ✓ | ✓ | ✓ | ✓ | |

## Table 3
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|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| WQ-8 | CalPeco will obtain permits from appropriate regulatory agencies prior to commencing work in waters of the United States or waters of the state. Following construction, CalPeco will restore any impacted waterbodies and wetlands to pre-project conditions and compensate for any permanent wetland impacts in accordance with the US Army Corps of Engineer's "no net loss" policy. | This measure requires that there is no net loss of waters of the United States or waters of the state through restoration of temporarily affected waters and compensation for permanent wetland losses. | ✓ | ✓ | ✓ | ✓ | ✓ | |
| MM 4.6-3a | **Follow USFS Guidance on Locating and Designing Roads to Protect Water Quality and Incorporate Erosion Control BMPs for all New Access Ways or Improvements to Existing Roads. Avoid Constructing Access Ways Steeper than 15 Percent Gradient Where Feasible and When Required Implement Site-Specific Proven BMPs to Prevent Concentrated Runoff and Gullying.**<br><br>During the project design process, the applicant shall follow USFS Guidance (USFS 2011) and coordinate directly with representatives of the LTMBU and Tahoe National Forest in their respective project areas to identify optimum siting, design and erosion control BMP type and placement for new access ways and modified access roads.<br>USFS guidance on locating and designing roads to minimize problems and risks to water, aquatic, and riparian resources includes (USFS 2011) the following. | | | | | | | |

**Table 3**
**Applicant Proposed Measures by Project Component**

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | • Fit the terrain, limit the need for excavation, and prevent damage to resources.<br>• Avoid riparian areas, wetlands, meadows, overly steep slopes and unstable landforms to the extent practicable.<br>• Use bridges or raised prisms with diffuse drainage to sustain flow patterns.<br>• Set crossing bottoms at natural channel bed and wet meadow surfaces.<br>• Balance cut and fills, consider full bench construction or mechanically stabilized fills on unstable slopes or slopes greater than 60 percent<br>• Design road surfaces to dissipate intercepted water via outsloping, insloping with drains or crowning with drains<br>• Reduce hydrologic connectivity of the road segment and limit connectivity to water crossings<br>• Incorporate stormwater and erosion controls and properly spaced cross drains to disperse flows<br>• Design stable ditch configurations and include energy dissipaters at culvert outlets<br>• Designs will also include minimizing road sections with 15 percent or steeper gradients and outsloping and designing an adequate number of cross-drains. BMPs could include rolling dips, waterbars, rock-dissipaters, or other measures sufficient to meet | | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 625 Line | | 650 Line | 132/650 Line Double-Circuit | Northstar Fold | Substations |
| | | | Existing | New | | | | |
| | USFS standards.<br>• More specific design criteria to be followed include the following.<br>• A typical 150-foot spacing for grade reversals.<br>• Locate grade reversals to hydraulically disconnect the road from surface waters.<br>• Use drainage dips as an exception when reverse grades cannot be achieved.<br>• Contour road alignments to have an average grade of 7 percent.<br>• Maximum road grade will equal ½ slope grade when over 7 percent.<br>• Maximum road alignment length of 150-feet over 7 percent grade.<br>• Avoid fall line locations. | | | | | | | |
| MM 4.6-3b | **Incorporate into Annual Power Line Inspection and Maintenance Routines a Permanent ROW and Access Way/Road Inspection and Maintenance Program.**<br>Include observations and recordings of any aggravated compaction or erosion along the ROW and access ways/roads into the annual power line inspections. Note any evidence of rilling, gullying, rutting, or drainage capture along the ROW and access ways. Also note any effects of unauthorized access. Make repairs and implement measures in line with the USFS Guidance on | | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | Locating and Designing Roads to Protect Water Quality to reduce or eliminate any erosion issues including limiting public access via gates, placement of rocks or logs, plantings, or signage; minimizing compaction; interrupting, distributing and attenuating peak flows through rolling dips; check dams, and preventing road capture of drainages via culverts, fords crossings and other mechanisms. | | | | | | | |
| MM 4.6-5 | **Prepare and Implement a Dewatering and Discharge Plan.** A dewatering and discharge plan shall be developed, submitted to TRPA and the LRWQCB for approval and implemented prior to initiating any excavation activities to protect groundwater resources in addition to surface waters in the event that groundwater is intercepted during project activities. The dewatering and discharge plan shall provide methods to protect groundwater during excavations from potential contaminant releases during equipment use and refueling, such as specific spill control and clean up and response measures in the vicinity of excavations. Additionally the dewatering and discharge plan shall include methods to collect and treat the sediment-laden water prior to releasing directly to a surface or groundwater source or demonstrate that it can be used to irrigate or applied as dust control without short-circuiting directly to surface waters. | | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| *Noise* | | | | | | | | |
| NOI-1 | CalPeco will provide notice of construction to all property owners within 300 feet of the project by mail at least 1 week prior to the start of construction activities. The announcement will state the construction start date, anticipated completion date, hours of operation, and the project's website where questions can be asked and complaints can be received. | This measure requires proper notice to residents in the vicinity of the project so they can be prepared for the construction activities that would occur nearby. The measure would also provide residents with a process by which they would be able to resolve noise-related issues and assist in ensuring compliance. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| NOI-2 | CalPeco will post a telephone number for excessive noise complaints in conspicuous locations in the vicinity of the project site when within 1,000 feet of residences. | The measure would provide residents with a process by which they could notify CalPeco of noise-related issues so that CalPeco could work to resolve any issues. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| NOI-3 | CalPeco will designate a Disturbance Coordinator, who will be responsible for responding to any local complaints about construction noise. The Disturbance Coordinator will determine the nature of the noise complaint and will propose reasonable measures to correct the problem. | The measure provides residents a process by which they would be able to notify CalPeco of noise-related issues. A designated Disturbance Coordinator would provide a single point of contact for residents for noise-related complaints and issues to be resolved. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| NOI-4 | Construction activities, including any blasting and helicopter flights, will occur during the times established by local ordinances (and allowing for any exceptions that local agencies and ordinance conditions may provide)—8:00 a.m. to 6:30 p.m. in TRPA jurisdiction, 6:00 a.m. to 8:00 p.m. Monday through Friday and 8:00 | This measure promotes project compliance with the noise regulations contained within Placer County Municipal Code and the Town of Truckee Development Code. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | a.m. to 8:00 p.m. Saturday and Sunday in Placer County and 7:00 a.m. to 9:00 p.m. Monday through Saturday and 9:00 a.m. to 6:00 p.m. on Sunday in the Town of Truckee—with the exception of certain activities where nighttime construction activities are necessary. These activities include, but are not limited to, the delivery of substation transformers, filling of substation transformers, system transfers, pouring of foundations, and pulling of the conductor across major roadways, which require continuous operation or must be conducted during off-peak hours per agency requirements. | | | | | | | |
| NOI-5 | No blasting will occur within 50 feet of any existing building, or within 250 feet of a residence or other occupied structure, or in a location or manner that would be inconsistent with other APMs. If large rock outcroppings need to be removed and are within 50 feet of a building or 250 feet of an occupied structure, alternative methods to blasting, such as silent chemical demolition, may be used to break apart and remove the rock. | This measure helps prevent damage to structures from blasting activities by restricting blasting activities near structures to methods that do not produce vibration. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| NOI-6 | All internal combustion-engine driven equipment will be equipped with intake and exhaust mufflers that are in good condition and appropriate for the equipment. | Intake and exhaust mufflers would reduce the overall noise levels associated with construction equipment. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| NOI-7 | Stationary noise-generating equipment will be located as far as possible from sensitive receptors when they adjoin or are within 1,000 feet of a construction area. | Maximizing the distance between stationary noise-generating equipment (e.g., generators) and sensitive receptors would reduce noise exposure for the receptors. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| NOI-8 | Quiet air compressors and other stationary equipment will be utilized when possible within the Town of Truckee limits and within developed areas of Tahoe City and Kings Beach. | This measure is intended to comply with the noise regulations contained in the Town of Truckee Development Code as well as minimize noise generation in other communities. | | | | ✓ | | ✓ |
| NOI-9 | Helicopter flight patterns will be designed to avoid and minimize flights over residential areas to the extent practical. | Minimizing helicopter flights over residential areas would reduce noise exposure for sensitive receptors. | ✓ | ✓ | ✓ | ✓ | ✓ | |
| NOI-10 | CalPeco will respond to third-party complaints of audible noise generated by operation of system facilities by investigating the complaints and by implementing feasible and appropriate measures. As a part of CalPeco's repair inspection and maintenance program, the power line will be patrolled and damaged insulators or other power line materials, which could cause interference and result in atypically loud corona noise, would be repaired or replaced. | Regular maintenance and response to noise complaints minimizes the public's exposure to project noise during operation. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| NOI-11 | Caution will be exercised during construction to try to avoid scratching or nicking the conductor surface, which may provide points for corona generation to occur. | Careful construction methods will minimize the public's exposure to project noise during operation. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MM 4.14-1 | **Potential construction activities outside allowable timeframes.**<br><br>For all construction activity that is to take place outside of allowable timeframes (typically nighttime | Implementation of the above mitigation measure would provide adequate noise reduction for construction activities that would take place at night. Therefore, mitigated short-term construction related | | | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | construction) within 700 feet of any sensitive land use (e.g., houses, schools, churches, hospitals), the construction contractor shall ensure that noise levels at the nearest sensitive receptors do not exceed 45 dBA Leq in Placer County, 50 dBA Leq in the Town of Truckee, and applicable CNEL standards for TRPA PASs as shown in Table 4.14-3. To achieve compliance with these standards, the applicant shall:<br>Install temporary noise curtains that meet the following parameters:<br>Install temporary noise curtains as close as possible to the boundary of the construction site within the direct line of sight path of the nearby sensitive receptor(s).<br>Temporary noise curtains shall consist of durable, flexible composite material featuring a noise barrier layer bounded to sound-absorptive material on one side. The noise barrier layer shall consist of rugged, impervious, material with a surface weight of at least one pound per square foot. | noise would not exceed nighttime noise standards and sensitive receptors would not be exposed to temporary increases in construction noise. | | | | | | |
| | | *Recreation* | | | | | | |
| REC-1 | A public-liaison will be assigned by CalPeco to provide the public with advance notification of construction activities at least 15 days prior to the start of construction activities. A project website will be developed for the public to ask questions about the construction process and schedule. Concerns related to dust, noise, odor, trail closures, and access restrictions | A designated public liaison would help ensure that the public is notified of construction activities and has a point-of-contact for information. The project website would further aid in information dissemination regarding any trails or recreational facilities that might be | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | associated with construction activities will be addressed within this program. | temporarily impacted by the project. This measure would promote public awareness of alternate recreational facilities that would be accessible during any potential closures as a result of construction activities, thus lessening the potential impact of trail closures. | | | | | | |
| REC-2 | CalPeco will provide the USFS, in the form of an annual construction plan, with advance notice of all construction activities potentially within its jurisdiction and affecting recreation areas and trail systems, including temporary trail closures, within the forest. CalPeco will coordinate with USFS prior to preparation of the plan to avoid conflicts with known, scheduled, permitted events. Such avoidance will be reflected in the annual construction plan. Notification to USFS officials will be provided at least 60 days before construction begins in these areas. | Notifying USFS staff of construction activities in the forest would allow for coordination regarding any regulations or requirements that the USFS may have. USFS staff can also provide the location of and information about potential alternative recreational trails and facilities to the public in order to aid in the implementation of APM REC-3, thus reducing the impact of trail closures upon recreationists. | ✓ | ✓ | ✓ | | | ✓ |
| REC-3 | Signs advising recreationists of construction activities and directing them to alternative trails or bikeways will be posted at all trail access points or in locations as determined through coordination with the respective jurisdictional agencies. Signage describing the closures will be posted at trail access points one week prior to closures, will remain posted during the entire closure period, and will be removed upon completion of construction. | The signage at trail access points would notify the public of closures and would suggest potential alternative facilities that can be accessed, thus reducing the impact of trail closures. | ✓ | ✓ | ✓ | ✓ | ✓ | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| REC-4 | Where helicopters will be used for construction, signage advising equestrians of the schedule for helicopter use will be posted at all equestrian trail-access points within the vicinity of the flight paths one week prior to helicopter activity. These signs will be checked and maintained daily until helicopter operation in the area ceases. | Horses are particularly sensitive to helicopter noise. This measure would allow the equestrians to avoid helicopter use areas, thus avoiding potential safety issues and impacts to the enjoyment of the activity. | ✓ | ✓ | ✓ | | ✓ | ✓ |
| REC-5 | Pulling of conductor over the Truckee River will occur during the months of April, October, or November to minimize impacts to rafting operations. | The peak rafting season is May through September. Limiting conductor pulling activities to April, October, or November would reduce impacts to rafting operators and recreational rafters. | | ✓ | | | | |
| REC-6 | CalPeco has agreed at the request of California State Parks to complete construction in the vicinity of Burton Creek State Park with no new access and with limited impact to the existing ROW for an agreed upon section of three poles. Excavation for pole installation in Segment 625-2 between southwest corner of Burton Creek State Park and the southernmost portion of Segment 625-3, where the State Park road meets the Fiberboard Freeway, will be done by hand; pole removal and replacement will be carried out by helicopter. All access ways created for the 625-Line between the end of pavement of the Fiberboard Freeway and the east west alignment of the existing 625 Line alignment in the vicinity of the southwest corner of Burton Creek State Park, will be closed to recreational access to prevent non-State | Limiting impacts to the existing ROW in Burton Creek State Park would minimize any potential impact to recreational use of the park. This would be completed by helicopter installation for a span of two to three poles, and has been proposed to limit future recreational travel ways. | | ✓ | | | | |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | Park system route and trail proliferation. This is an approximately 1,800 foot segment of the proposed 625 Line alignment. | | | | | | | |
| REC-7 | CalPeco will install access way barriers (e.g., gates where system maintenance and administrative access is anticipated, boulders, logs) and signage along any overland travel ways to minimize the possibility of establishing new recreational paths (both motorized and non-motorized). Other methods to manage recreational use, such as applying layers of mulch to prevent motorized route development, providing wayfinding signage to direct non-motorized use, and using restoration plantings to screen temporary access ways that are no longer used, can also be employed. Temporary access ways that are no longer used will be permanently blocked. These actions will be completed as prescribed under the Construction Operation and Maintenance Plan for the project that will be prepared by the Applicant and approved by the USFS prior to construction. | Placing boulders or gates to block access following construction would limit habitat degradation as a result of unauthorized use of access ways. | ✓ | ✓ | ✓ | | ✓ | |
| REC-8 | Several APMs address management, protection, and restoration of physical conditions in the project construction zone (e.g., APMs SCE-1, BIO-23, BIO-28, BIO-36, SOILS-2). APM BIO-36 specifically calls for development and implementation of a site Restoration Plan. The Restoration Plan developed under APM BIO-36 will also address final clean-up, stabilization, and | This APM would prevent permanent net loss of recreation facilities or loss of character to these facilities on NFS lands upon completion of the project. | ✓ | ✓ | ✓ | | | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | reconstruction of recreation areas and access points on NFS lands disturbed by the project. The plan will be consistent with, and implement related commitments and requirements included in the EIS/EIS/EIR project description, other APMs, and mitigation measures. The Restoration Plan will address restoration of the recreation facilities to a pre-construction condition, and will be consistent with the USFS Recreation Opportunity Spectrum (ROS) system, Built Environment Image Guide (BEIG), and accessibility requirements. Restoration activities will be sufficient to result in no permanent net loss of recreation facilities or loss of character to these facilities on NFS lands upon completion of the project. | | | | | | | |
| | | *Utilities* | | | | | | |
| UTL-1 | During the project design process, the applicant will coordinate with utility providers in the project area to identify the location of underground facilities in the vicinity of the selected alignment and staging areas. The final excavation and grading plans will avoid existing utilities where possible; and where it is not possible to avoid utilities, the applicant will coordinate with service providers to minimize disturbance. Prior to start of construction, the applicant will verify utility locations through field surveys and use of the Underground Service Alert (USA) services. Any buried utility lines will be clearly marked in construction areas. | This would minimize adverse impacts area resident and local businesses from utility service interruptions. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | Prior to start of construction, the applicant will prepare a response plan to provide procedures to be followed in the event of accidental damage to a utility line. The plan will identify chain-of-command rules for notifying authorities and appropriate actions and responsibilities for ensuring the safety of the public and workers.<br>Worker education training in response to such events will be conducted by the contractor.<br>The applicant will provide adequate notice to utilities and affected customers of planned service disruptions associated with transmission line construction activities. | | | | | | | |
| | *Traffic and Transportation* | | | | | | | |
| TRAN-1 | The applicant will develop and implement a Traffic Control Plan to minimize disruptions to surface travel and protect the safety of workers and the traveling public. The Traffic Control Plan will include, but not be limited to, the following:<br>• coordination with local transportation agencies and emergency service providers for temporary lane and road closures and implementation of measures to maintain emergency vehicle access;<br>• provide mechanisms to prevent construction activities from interfering with emergency response or emergency evacuation plans in the event an evacuation plan were to be activated during the construction period;<br>• identification of any time restrictions on | Preparation of a Traffic Control Plan would limit the potential disturbance to individuals traveling on local roadways and reduce the potential for impacts to emergency service providers. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

## Table 3
## Applicant Proposed Measures by Project Component

| APM/ MM | Description | Justification | Project Component | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *625 Line* | | *650 Line* | *132/650 Line Double-Circuit* | *Northstar Fold* | *Substations* |
| | | | *Existing* | *New* | | | | |
| | construction activities that could affect roadways;<br>• traffic control measures (flagging methods, signage, reduced speeds in work zones, parking restrictions);<br>• provision for maintaining safe pedestrian and bicycle travel (e.g., signage to direct pedestrians and bicyclists to safe routes around construction areas); and<br>• public outreach advising the travelling public of construction activity and travel restrictions.<br>The Traffic Control Plan measures will be monitored by the applicant for effectiveness and adjustments will be made as needed to the implementation of the Traffic Control Plan to further minimize travel disruptions and maintain safety. The Traffic Control Plan will meet the requirements of agencies with jurisdiction over the roadways being affected, such as Caltrans for I-80 and SR 267 effects, and TRPA if any actions trigger TRPA code 22.7.6 Traffic Mitigation requirements within the Lake Tahoe Basin. | | | | | | | |

# 5 REFERENCES

14 CCR 15000–15387 and Appendices A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.

CPUC (California Public Utilities Commission). 2014. *California Pacific Electricity Company 625 and 650 Electrical Line Upgrade Project Final EIS/EIS/EIR SCH# 2012032066.* Prepared by Ascent Environmental for US Forest Service, Tahoe Regional Planning Agency, California Public Utilities Commission. Sacramento, California: Ascent Environmental. September 2014.

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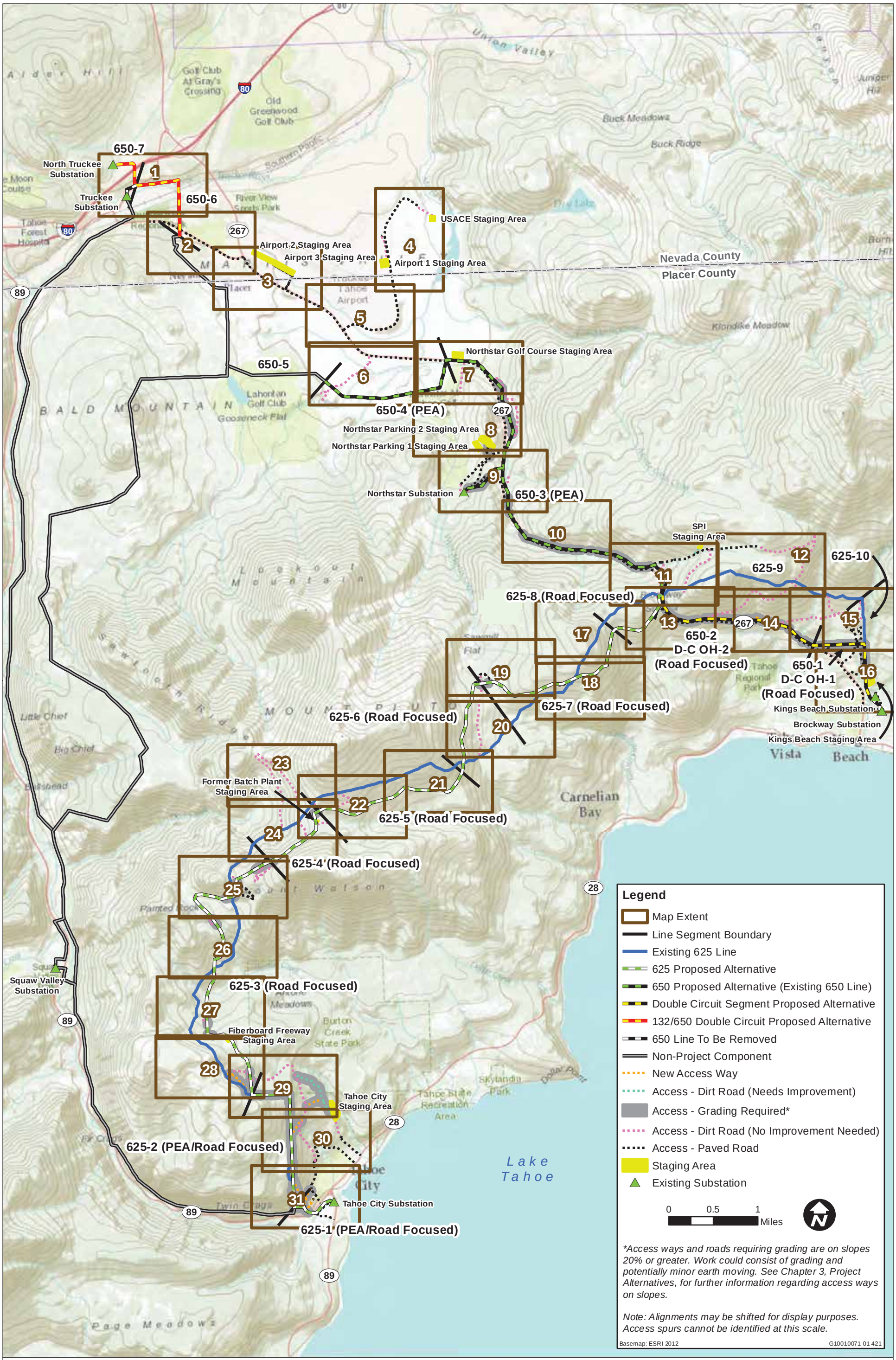
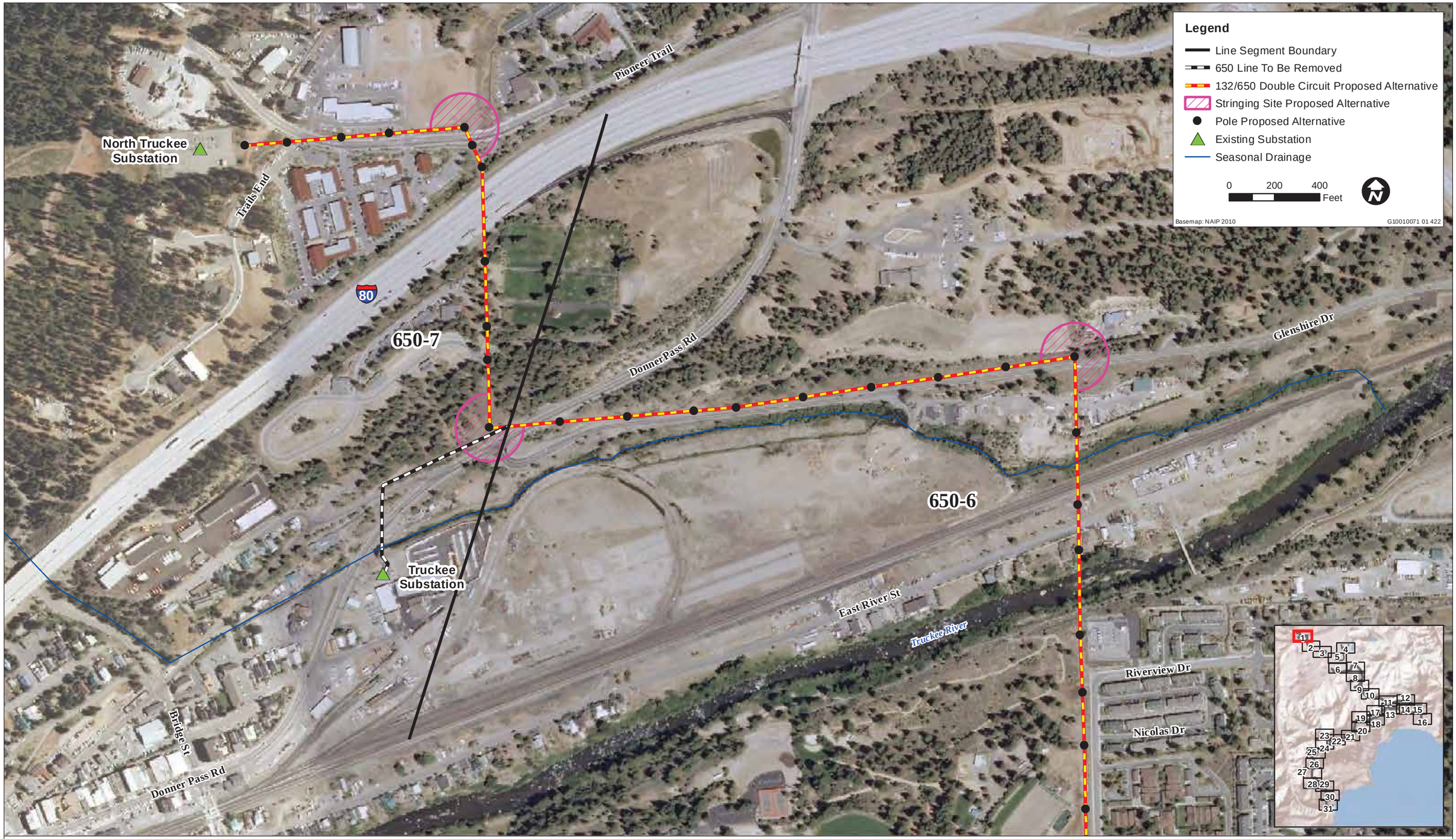
# ATTACHMENT A

*Project Maps*




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) Map Layout




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 1

650-6

650-5

Estates Dr

Brockway Rd

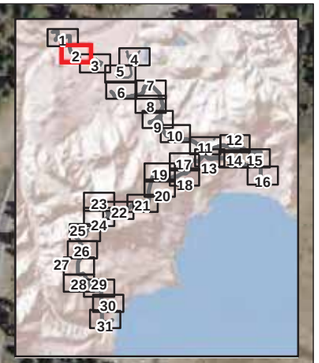
Winter Creek Loop

Ponderosa Golf Course

Brockway Rd

267

Airport 2 Staging Area




**Legend**

- Line Segment Boundary
- 132/650 Double Circuit Proposed Alternative
- Non-Project Component
- Access - Paved Road
- Stringing Site Proposed Alternative
- Pole Proposed Alternative
- Staging Area
- Seasonal Drainage

0 200 400 Feet

Basemap: NAIP 2010

G10010071 01 423

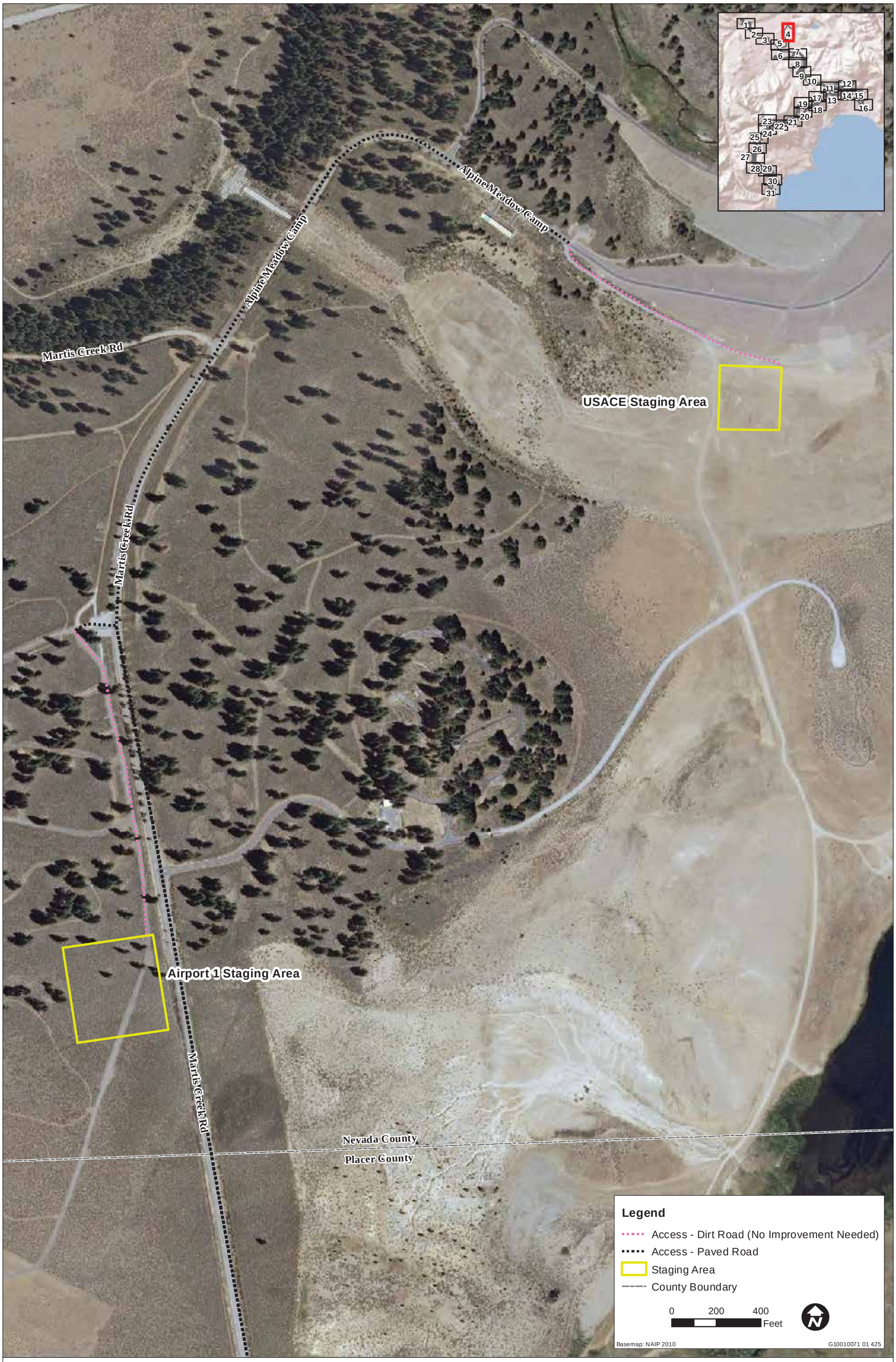
*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 2

ASCENT ENVIRONMENTAL

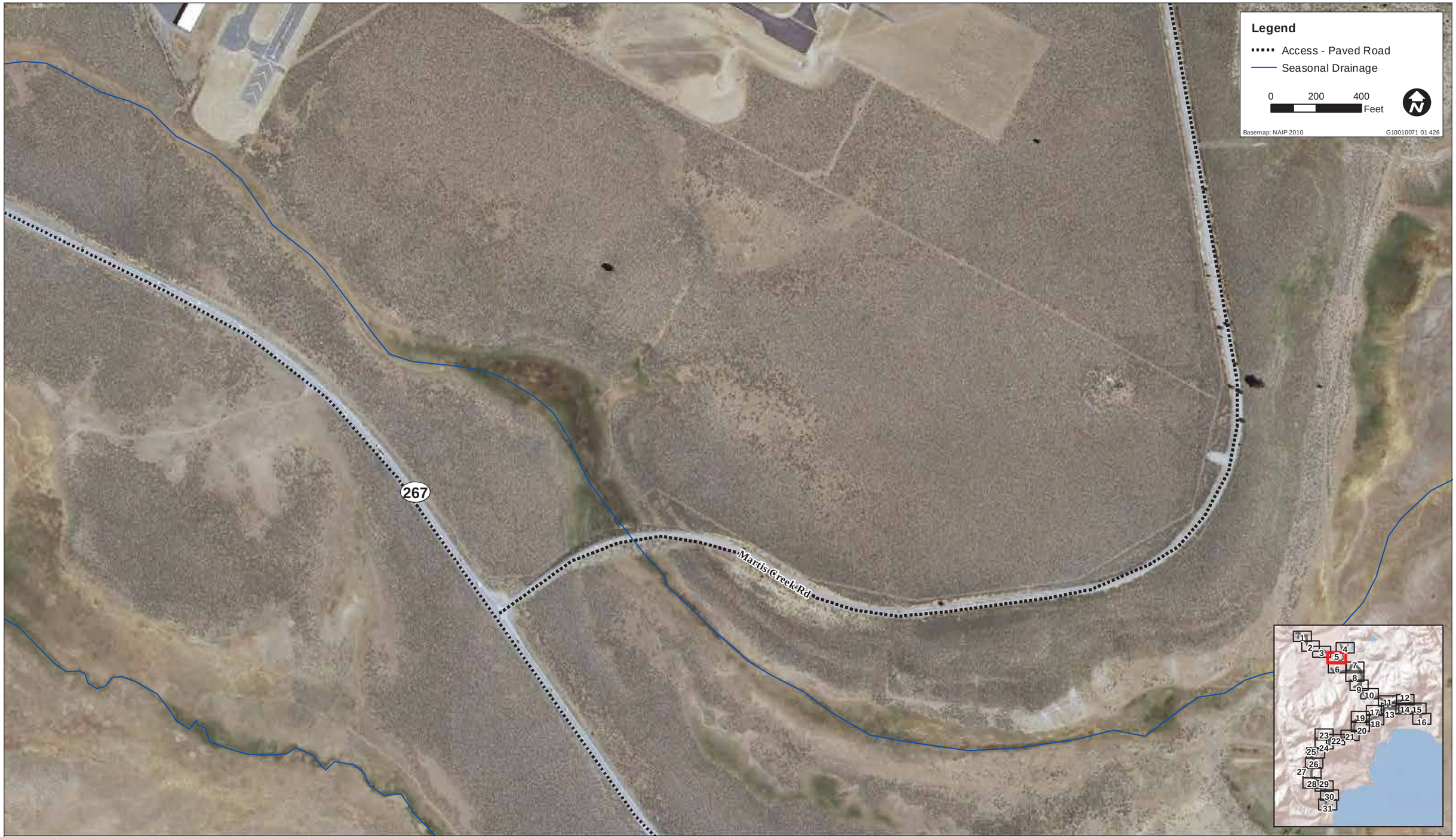

*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 3




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 4




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 5

ASCENT ENVIRONMENTAL

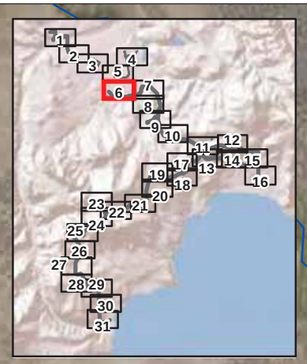
**Legend**

- Line Segment Boundary
- 650 Proposed Alternative (Existing 650 Line)
- Non-Project Component
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Stringing Site Proposed Alternative
- Pole Proposed Alternative
- Seasonal Drainage

0 200 400 Feet

Basemap: NAIP 2010

G10010071 01 427




267

Martis Creek

650-5

Martis Valley

650-4

*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 6

ASCENT ENVIRONMENTAL

Northstar Golf Course Staging Area

267

650-3

650-4

**Legend**

- Line Segment Boundary
- 650 Proposed Alternative (Existing 650 Line)
- Access - New Road
- Access - Grading Required*
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Stringing Site Proposed Alternative
- Pole Proposed Alternative
- Staging Area
- Seasonal Drainage

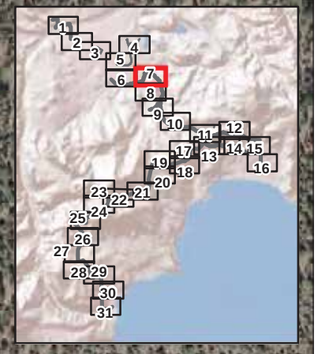
0 200 400 Feet

N

**Access ways and roads requiring grading are on slopes 20% or greater. Work could consist of grading and potentially minor earth moving. See Chapter 3, Project Alternatives, for further information regarding access ways on slopes.*

Basemap: NAIP 2010

G10010071 01 428



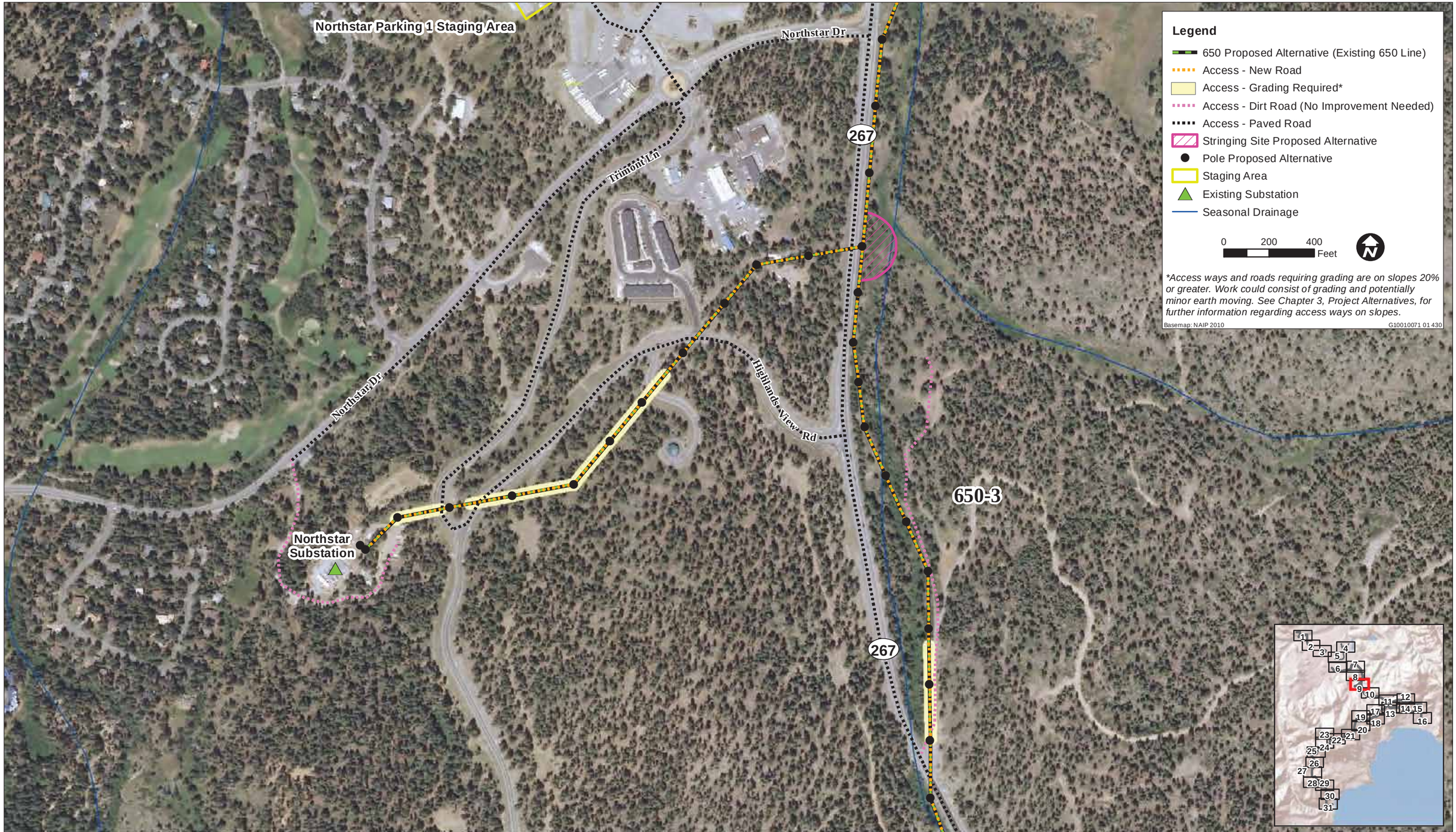

*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 7

ASCENT ENVIRONMENTAL


*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 8



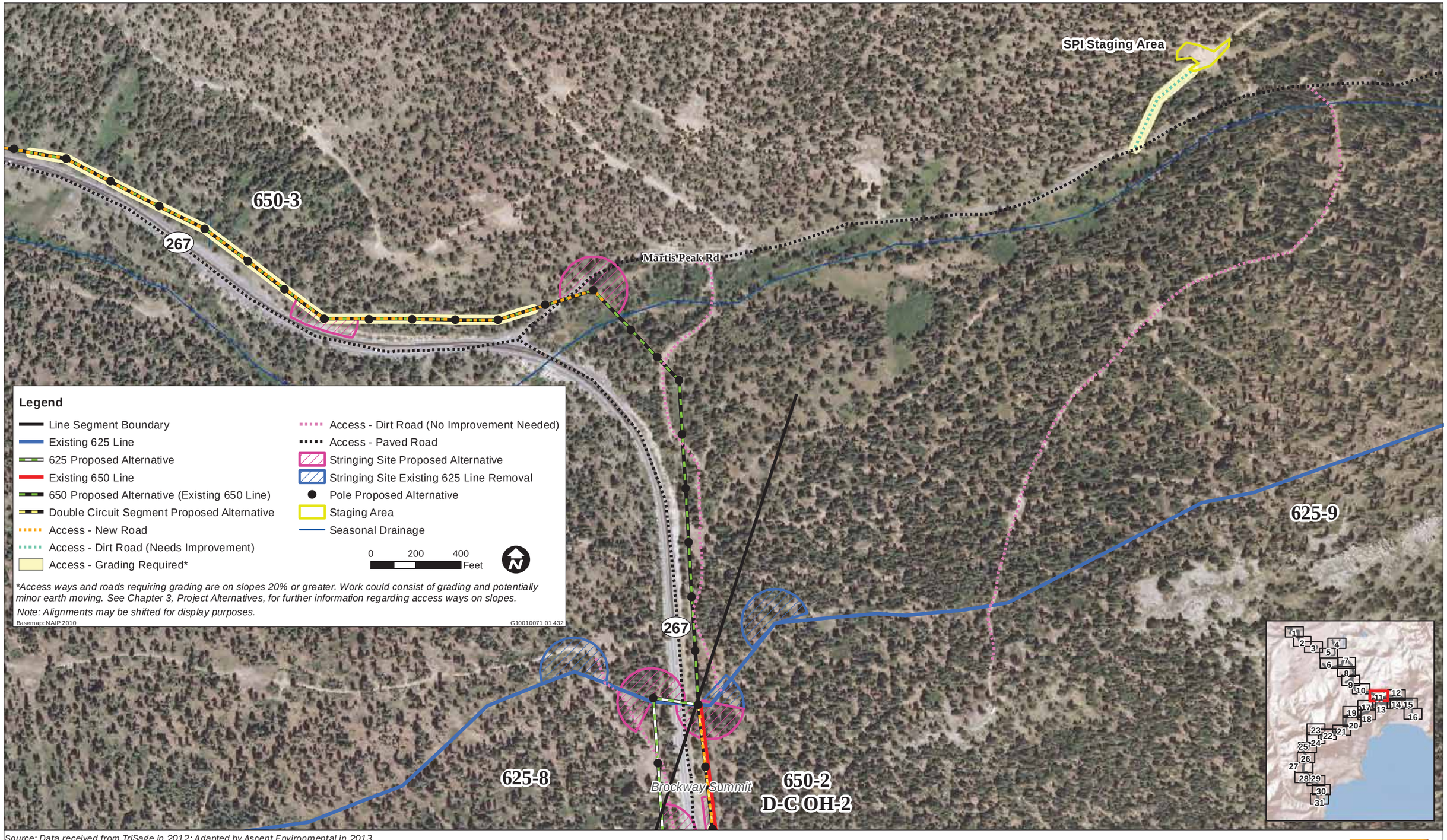

*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 9


*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

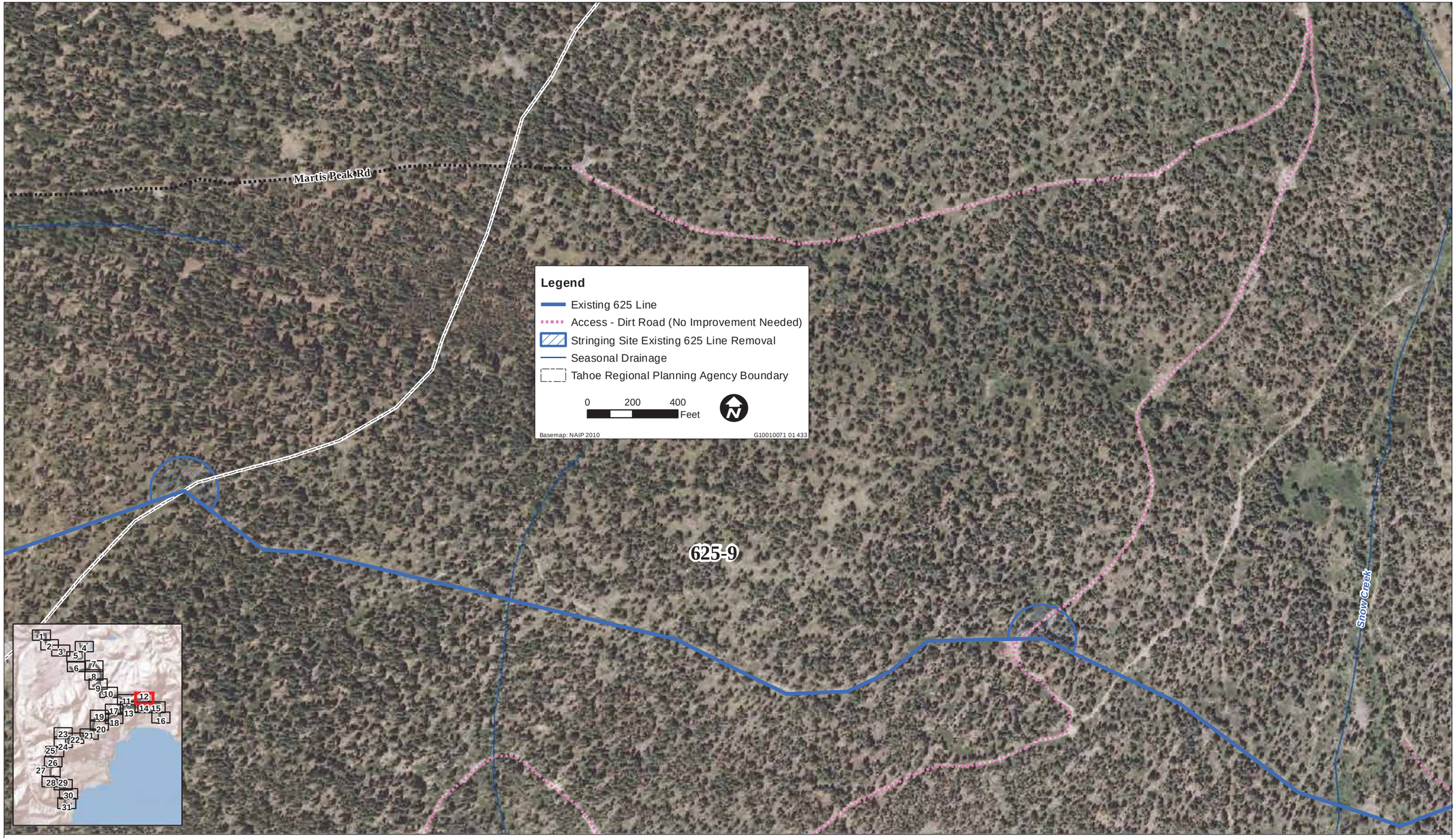
Alternative 4 (Proposed Alternative) - Map 10

ASCENT ENVIRONMENTAL




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 11




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 12

ASCENT ENVIRONMENTAL

650-3

267

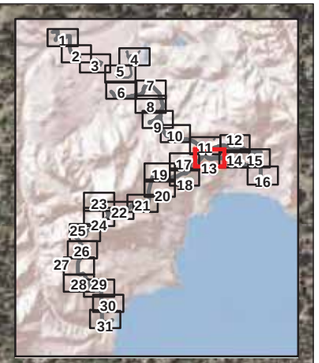
625-9

Brockway Summit

625-8

650-2
D-C OH-2

267




**Legend**

- Line Segment Boundary
- Existing 625 Line
- 625 Proposed Alternative
- Existing 650 Line
- 650 Proposed Alternative (Existing 650 Line)
- Double Circuit Segment Proposed Alternative
- Access - New Road
- Access - Grading Required*
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Stringing Site Proposed Alternative
- Stringing Site Existing 625 Line Removal
- Pole Proposed Alternative
- Tahoe Regional Planning Agency Boundary

0 200 400 Feet

N

*Access ways and roads requiring grading are on slopes 20% or greater. Work could consist of grading and potentially minor earth moving. See Chapter 3, Project Alternatives, for further information regarding access ways on slopes.
Note: Alignments may be shifted for display purposes.

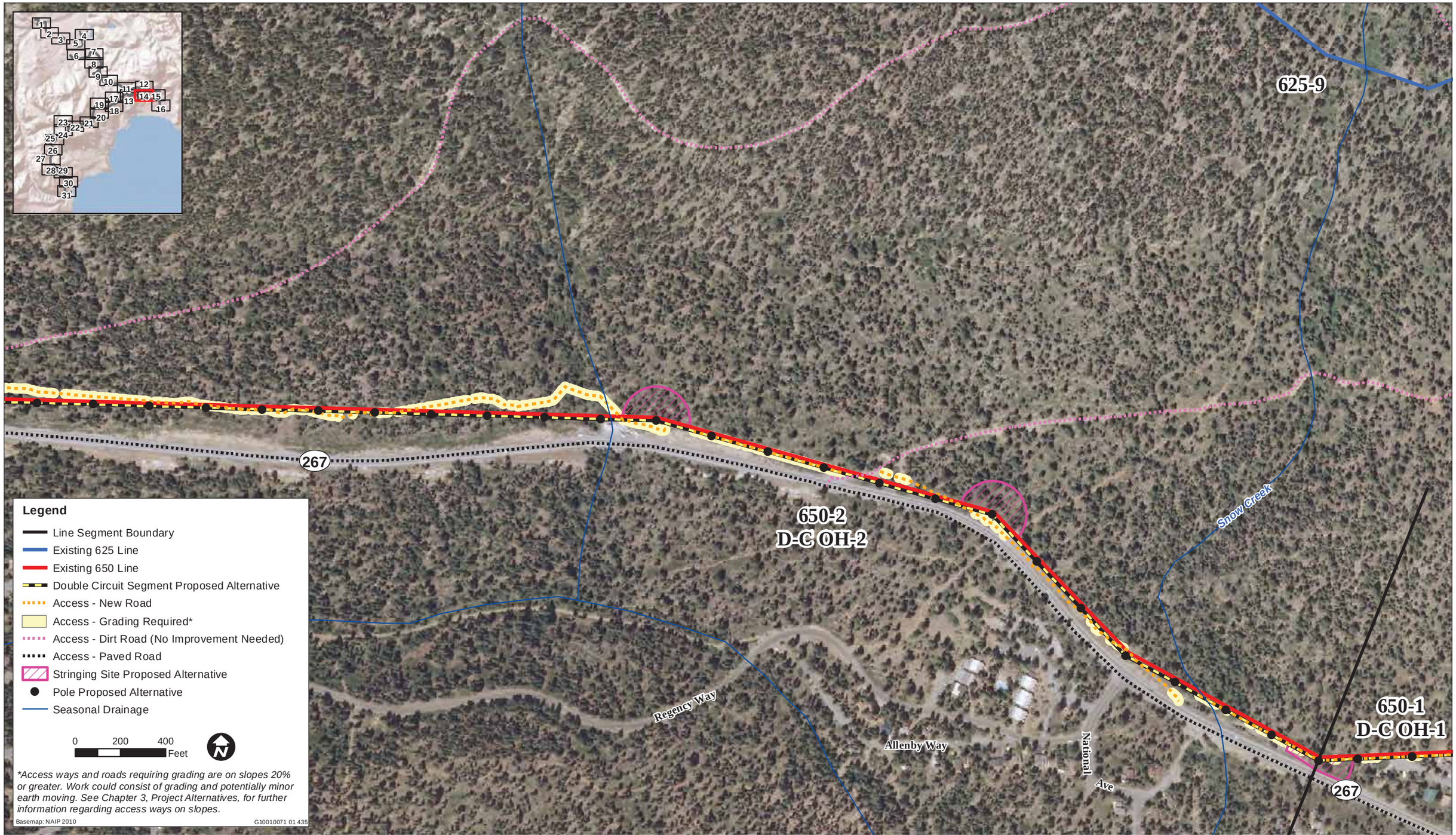
Basemap: NAIP 2010

G10010071 01 434

*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 13

ASCENT ENVIRONMENTAL




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 14

625-9

625-10

650-2
D-C OH-2

650-1
D-C OH-1

267

Snow Creek

Griff Creek

Lake Vista Rd

Commonwealth Dr

Hastings Ln

Canterbury Dr

Legend

- Line Segment Boundary
- Existing 625 Line
- Existing 650 Line
- Double Circuit Segment Proposed Alternative
- Access - New Road
- Access - Grading Required*
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Stringing Site Proposed Alternative
- Stringing Site Existing 625 Line Removal
- Pole Proposed Alternative
- Seasonal Drainage

0 200 400 Feet

N

*Access ways and roads requiring grading are on slopes 20% or greater. Work could consist of grading and potentially minor earth moving. See Chapter 3, Project Alternatives, for further information regarding access ways on slopes.*

*Note: Alignments may be shifted for display purposes.*

Basemap: NAIP 2010

G10010071 01 436

*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 15

ASCENT ENVIRONMENTAL


*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 16

ASCENT ENVIRONMENTAL

Legend

- Line Segment Boundary
- Existing 625 Line
- 625 Proposed Alternative
- Access - Paved Road
- Stringing Site Proposed Alternative
- Stringing Site Existing 625 Line Removal
- Pole Proposed Alternative
- Tahoe Regional Planning Agency Boundary

0 200 400 Feet

Basemap: NAIP 2010

G10010071 01 438

625-8

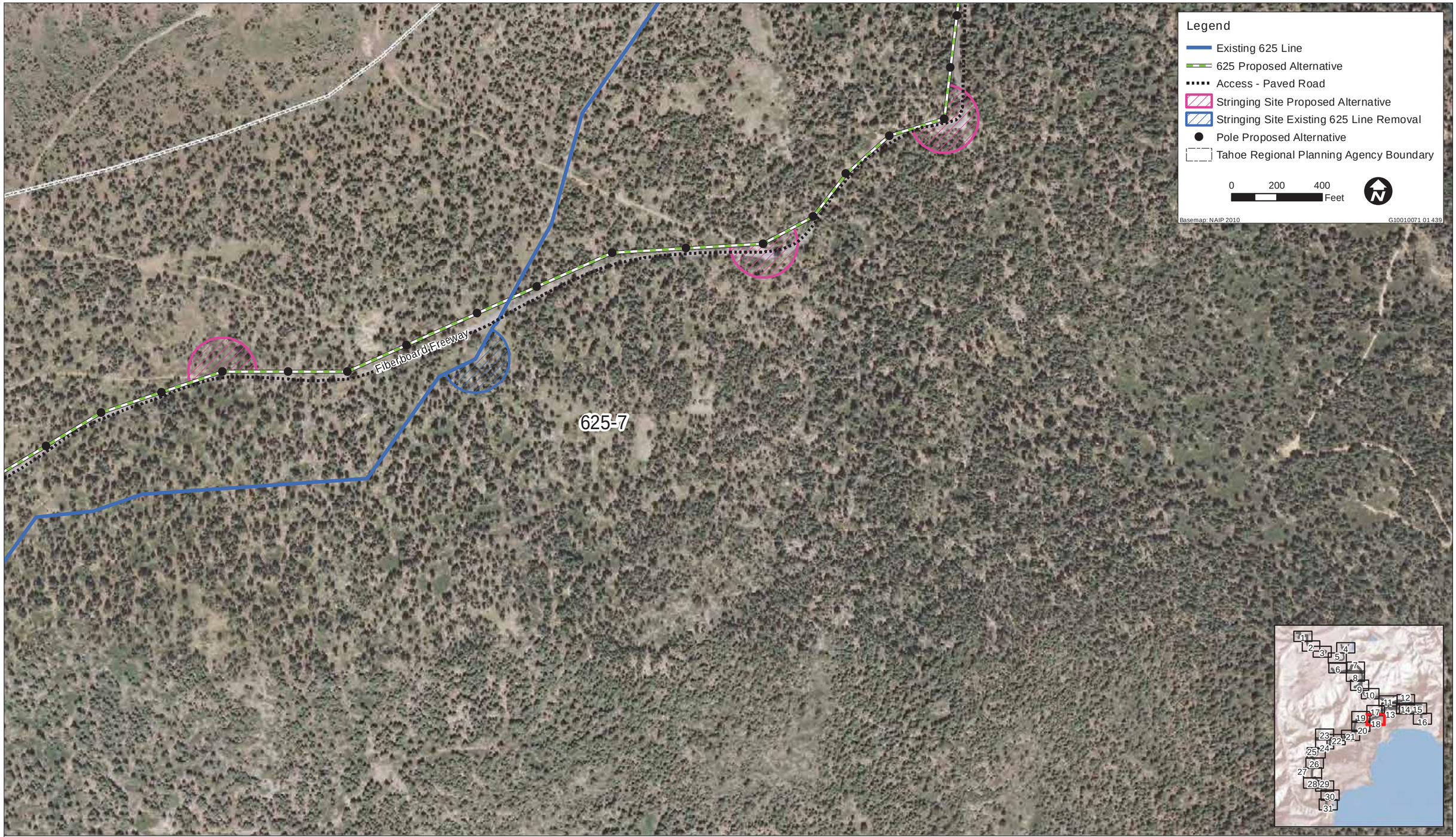
625-7

Eiberboard Freeway

*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 17

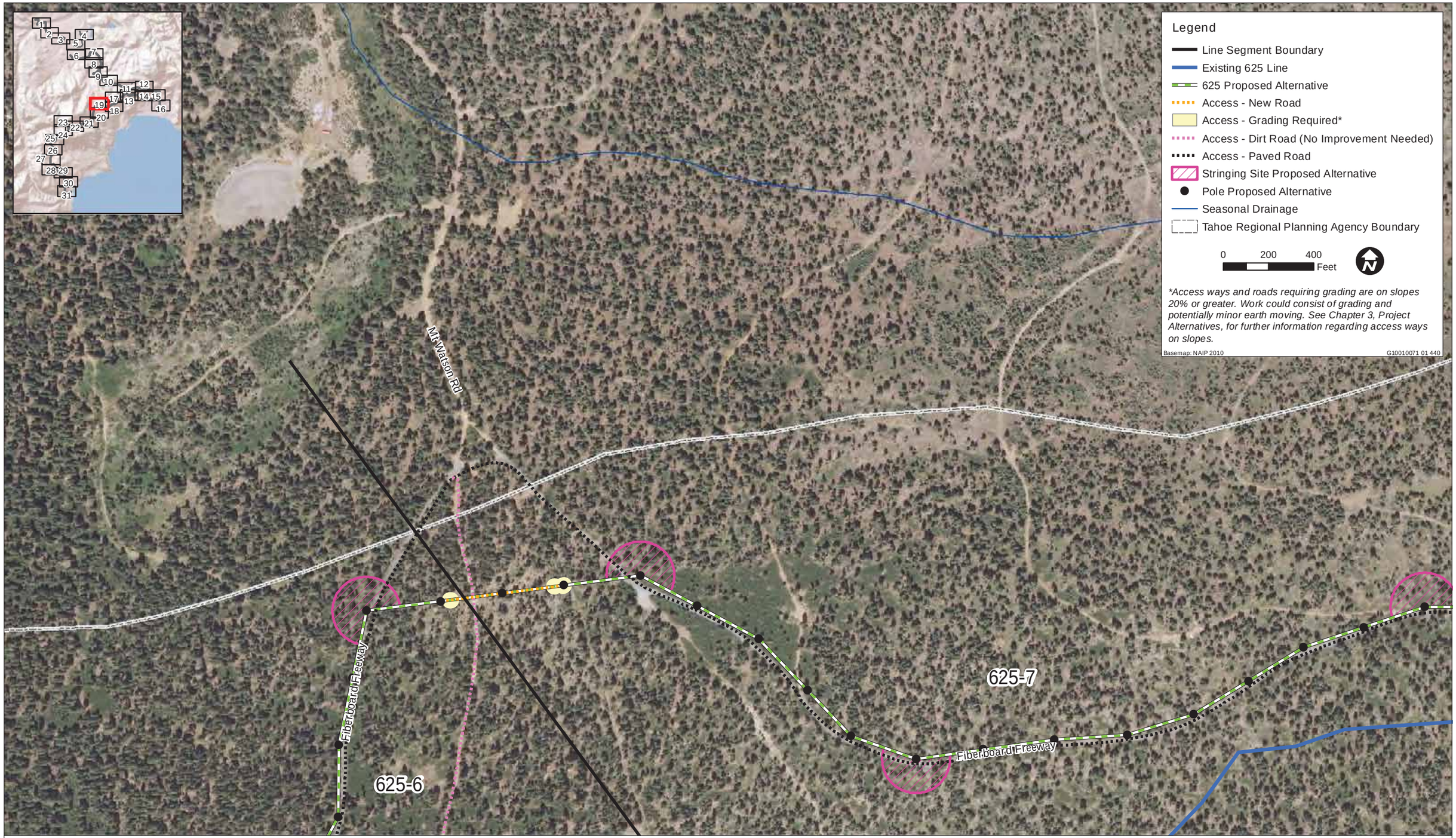
ASCENT ENVIRONMENTAL




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 18

ASCENT ENVIRONMENTAL




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 19


*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 20

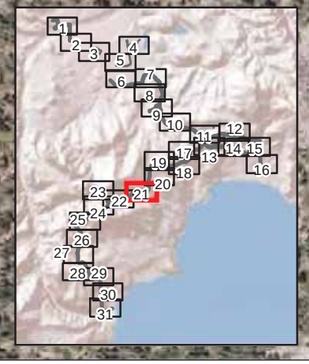
ASCENT ENVIRONMENTAL

625-6

625-5

Fiberboard Freeway

Fiberboard Freeway




Legend

- Line Segment Boundary
- Existing 625 Line
- 625 Proposed Alternative
- Stringing Site Proposed Alternative
- Stringing Site Existing 625 Line Removal
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Pole Proposed Alternative

0 200 400 Feet

N

Basemap: NAIP 2010

G10010071 01 442

*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 21

ASCENT ENVIRONMENTAL


*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 22

ASCENT ENVIRONMENTAL


*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 23

ASCENT ENVIRONMENTAL

Legend

- Line Segment Boundary
- Existing 625 Line
- 625 Proposed Alternative
- Access - New Road
- Access - Grading Required*
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Stringing Site Proposed Alternative
- Stringing Site Existing 625 Line Removal
- Pole Proposed Alternative
- Staging Area
- Seasonal Drainage
- Tahoe Regional Planning Agency Boundary

0 200 400 Feet

N

*Access ways and roads requiring grading are on slopes 20% or greater. Work could consist of grading and potentially minor earth moving. See Chapter 3, Project Alternatives, for further information regarding access ways on slopes.

Basemap: NAIP 2010 G10010071 01 445

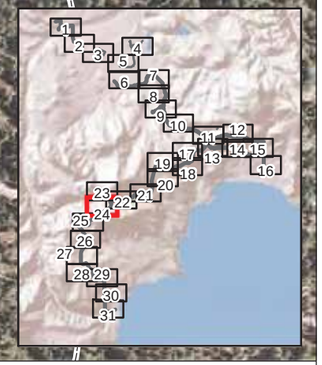
625-5

Former Batch Plant Staging Area

625-4

Fiberboard Freeway

625-3




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 24

ASCENT ENVIRONMENTAL

Legend

- Line Segment Boundary
- Existing 625 Line
- 625 Proposed Alternative
- Access - New Road
- Access - Grading Required*
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Stringing Site Proposed Alternative
- Stringing Site Existing 625 Line Removal
- Pole Proposed Alternative
- Seasonal Drainage
- Tahoe Regional Planning Agency Boundary

0 200 400 Feet

N

*Access ways and roads requiring grading are on slopes 20% or greater. Work could consist of grading and potentially minor earth moving. See Chapter 3, Project Alternatives, for further information regarding access ways on slopes.

Basemap: NAIP 2010 G10010071 01 446

625-4

Fiberboard Freeway

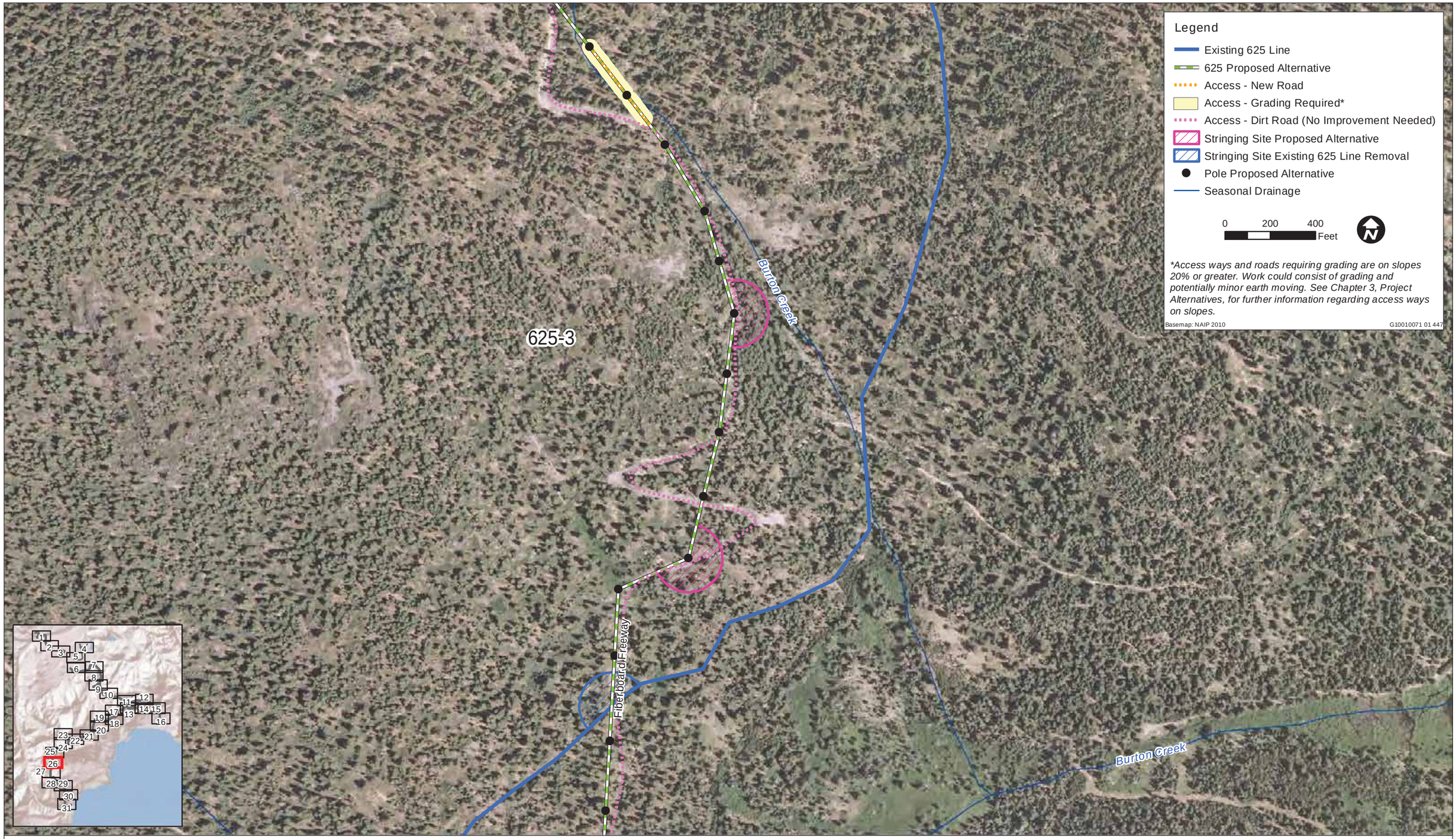
625-3

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013

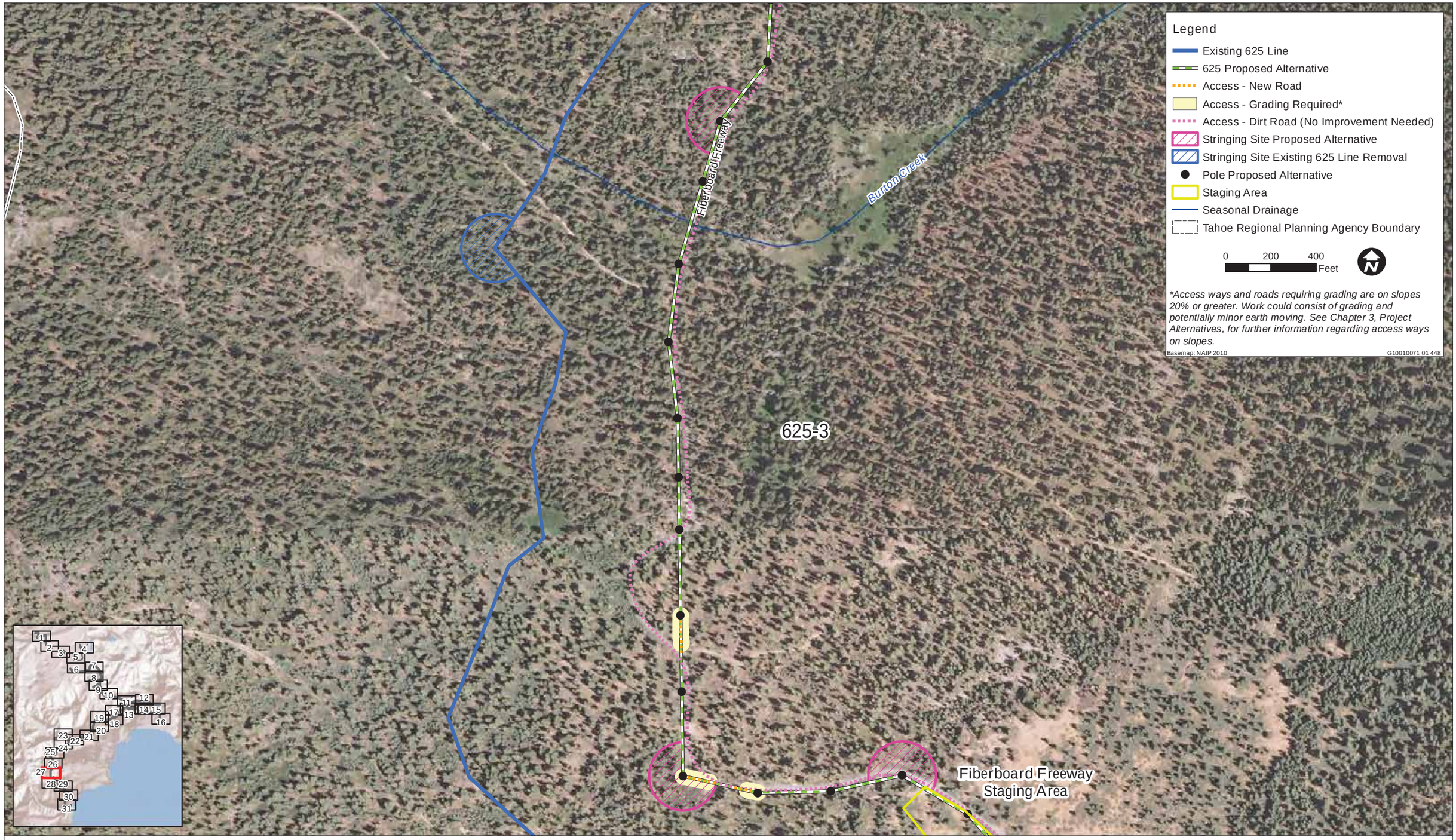
Alternative 4 (Proposed Alternative) - Map 25

ASCENT ENVIRONMENTAL




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 26




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 27

ASCENT ENVIRONMENTAL

Legend

- Line Segment Boundary
- Existing 625 Line
- 625 Proposed Alternative
- Access - New Road
- Access - Grading Required*
- Access - Dirt Road (No Improvement Needed)
- Stringing Site Proposed Alternative
- Stringing Site Existing 625 Line Removal
- Pole Proposed Alternative
- Staging Area
- Tahoe Regional Planning Agency Boundary

0 200 400 Feet

*Access ways and roads requiring grading are on slopes 20% or greater. Work could consist of grading and potentially minor earth moving. See Chapter 3, Project Alternatives, for further information regarding access ways on slopes.

*Note: Alignments may be shifted for display purposes.*

Basemap: NAIP 2010 G10010071 01 449

Fiberboard Freeway Staging Area

Fiberboard Freeway

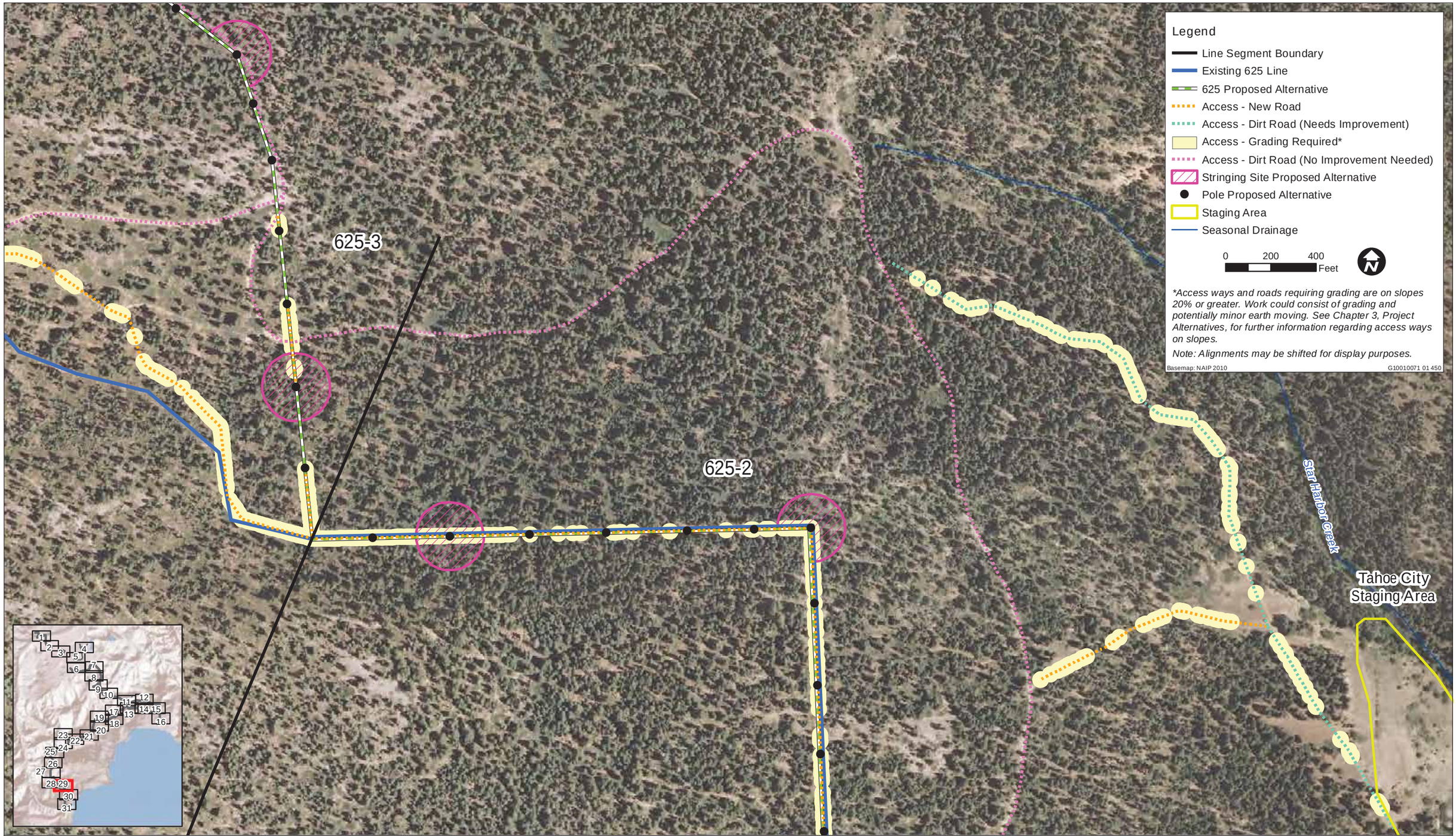
625-3

625-2

*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 28

ASCENT ENVIRONMENTAL




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 29

ASCENT ENVIRONMENTAL

Legend

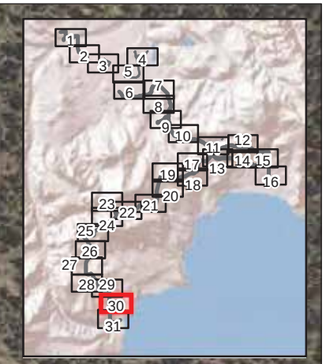
- Existing 625 Line
- 625 Proposed Alternative
- Access - New Road
- Access - Dirt Road (Needs Improvement)
- Access - Grading Required*
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Stringing Site Proposed Alternative
- Pole Proposed Alternative
- Staging Area
- Seasonal Drainage

0 200 400 Feet

*Access ways and roads requiring grading are on slopes 20% or greater. Work could consist of grading and potentially minor earth moving. See Chapter 3, Project Alternatives, for further information regarding access ways on slopes.*

*Note: Alignments may be shifted for display purposes.*

Basemap: NAIP 2010 G10010071 01 451




Tahoe City Staging Area

625-2

Star Harbor Creek

Bunker Rd

Fairway Dr

Grove St

Jackpine St

Tahoe City Golf Course

28

*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 30

ASCENT ENVIRONMENTAL

Legend

- Line Segment Boundary
- Existing 625 Line
- 625 Proposed Alternative
- Access - New Road
- Access - Grading Required*
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Stringing Site Proposed Alternative
- Pole Proposed Alternative
- Seasonal Drainage

0 200 400 Feet

**Access ways and roads requiring grading are on slopes 20% or greater. Work could consist of grading and potentially minor earth moving. See Chapter 3, Project Alternatives, for further information regarding access ways on slopes.*

*Note: Alignments may be shifted for display purposes.*

Basemap: NAIP 2010 G10010071 01 452




*Source: Data received from TriSage in 2012; Adapted by Ascent Environmental in 2013*

Alternative 4 (Proposed Alternative) - Map 31

ASCENT ENVIRONMENTAL

# ATTACHMENT B

*Project Contact List*

# ATTACHMENT B
# Project Contact List

| Contact Name and Title | Address | Phone | Cell Phone | Email Address |
|---|---|---|---|---|
| *California Pacific Electric Company (CalPeco)* | | | | |
| *CalPeco Project Managers* | | | | |
| Sam Rohn, Environmental and Safety Manager | P.O. Box 107<br>(701 National Avenue)<br>Tahoe Vista, California 96148 | 530.546.1744 | 530.307.3609 | sam.rohn@libertyutilities.com |
| *CalPeco Resource Leads and Monitors* | | | | |
| Jessica Drummond, Vegetation Management Director | P.O. Box 107<br>(701 National Avenue)<br>Tahoe Vista, California 96148 | 530.546.1728 | 775.636.3032 | jessica.drummond@libertyutilities.com |
| Blaine Ladd, PE, Regional Engineer | P.O. Box 107<br>(701 National Avenue)<br>Tahoe Vista, California 96148 | 530.546.1763 | 530.721.7363 | blaine.ladd@libertyutilities.com |
| Tom Amesbury, Forester's Co-Op / Liberty Utilities' Forester, RPF #2253 Timber Harvest Project Manager | 415 Colfax Avenue<br>Grass Valley, California 95945 | 530.273.8326 | 530.945.6276 | tom@forco-op.com |
| Christian Eggleton, Forester, GIS Analyst | 415 Colfax Avenue<br>Grass Valley, California 95945 | 530.273.8326 | 562.640.0860 | Christian@forco-op.com |
| Andrea Hardlund, Forestry Forman | 415 Colfax Avenue<br>Grass Valley, California 95945 | 530.273.8326 | 714.393.9646 | Andrea@forco-op.com |
| Anne Marie McGraw, Principal | Insignia Environmental (Environmental Monitors)<br>258 High Street<br>Palo Alto, CA 94301 | 650.321.6787 | 650.464.5348 | amcgraw@insigniaenv.com |
| *Tri Sage Consulting (CalPeco Project Consultant)* | | | | |
| Karen Schlichting, PE | 5418 Longley Lane, Suite A<br>Reno, NV 89511 | 775.336.1301 | 775.742.0599 | kschlichting@trisage.com |
| Jim Bengochea, PE, Transmission Line Engineer of Record | Same | 775.336.1302 | 775.354.6204 | jbengochea@trisage.com |
| Ed Legier, PE, Substation Engineer of Record | Same | 775.336.1300 ext. 111 | 775.721.2006 | elegier@trisage.com |
| Jim Bessey, Construction Administrator | Same | | 775.722.2430 | jbessey@trisage.com |

# ATTACHMENT B (Continued)

| Contact Name and Title | Address | Phone | Cell Phone | Email Address |
|---|---|---|---|---|
| Pete Lazzari, Construction Manager | Same | 775.336.1300 ext. 103 | 775.741.6398 | plazzari@trisage.com |
| Alissa Turner, PE, Lands / Environmental Manager | Same | 775.336.1300 ext.104 | 775.848.0125 | aturner@trisage.com |
| Bob Fong, Right of Way Agent / Surveyor | Same | 775.336.1300 ext.110 | 775.848.7481 | rfong@trisage.com |
| Kathy Carter, Public Relations | Same | 775.336.1300 ext.113 | 775.813.1280 | kcarter@trisage.com |
| *California Public Utilities Commission (CPUC)* | | | | |
| Michael Rosauer<br>CPUC Project Manager | 505 Van Ness, 4th Floor<br>San Francisco, California 94102 | 415.703.2579 | | michael.rosauer@cpuc.ca.gov |
| *CPUC Environmental Compliance Manager* | | | | |
| Scott Eckardt, Dudek / Environmental Monitoring Point of Contact | 853 Lincoln Way, Suite 208<br>Auburn, California 95603 | 530.863.4650 | 530.908.6737 | seckardt@dudek.com |
| Allison Shaffer, Dudek / Assistant Compliance Monitoring Manager | 605 3rd Street<br>Encinitas, California 92024 | 760.479.4278 | 760.846.5727 | ashaffer@dudek.com |
| *CPUC Environmental Compliance Monitor(s)* | | | | |
| Lisa Achter, Dudek / Environmental Compliance Monitor | 853 Lincoln Way, Suite 208<br>Auburn, California 95603 | 530.863.4647 | 530.217.8952 | lachter@dudek.com |
| *U.S. Forest Service* | | | | |
| Robert Rodman, Lands Program Manager, LTBMU, R5 | Lake Tahoe Basin Management Unit<br>35 College Drive<br>South Lake Tahoe, California 96150-4500 | 530.543.2613 | | rrodmanjr@fs.fed.us |
| Mike LeFevre, Planning Staff Officer, LTBMU, R5 | Same | 530.543.2840 | | mlefevre@fs.fed.us |
| Brian Hansen, Permit Administrator, LTBMU | Same | 530.543.2870 | | bchansen@fs.fed.us |
| Timothy Cardoza, Lands Use Specialist, Tahoe National Forest | Same | 530.478.6210 | | tcardoza@fs.fed.us |
| Brian Garrett, Urban Lot Program Manager | Same | 530.543.2617 | | bdgarrett@fs.fed.us |

# ATTACHMENT B (Continued)

| Contact Name and Title | Address | Phone | Cell Phone | Email Address |
|---|---|---|---|---|
| *Tahoe Regional Planning Agency (TRPA)* | | | | |
| Wendy Jepson, TRPA Senior Planner | Tahoe Regional Planning Agency<br>PO Box 5310 (128 Market Street)<br>Stateline, Nevada 89449 | 775.589.5269 | | wjepson@trpa.org |
| Steve Sweet, Sr. Environmental Specialist/Compliance | Same | 775.589.5250 | | ssweet@trpa.org |
| Mike Vollmer, Forest Management Program Coordinator | Same | 775.589.5268 | | mvollmer@trpa.org |
| *Local Agencies* | | | | |
| Paul Thompson, Assistant Agency Director | Placer County Community Develop. Resource Agency<br>775 N. Lake Boulevard<br>Tahoe City, California 96145 | 530.581.6210 | 530.392.5626 | pkthomps@placer.ca.gov |
| *Town of Truckee* | | | | |
| Denyelle Nishimori, Senior Planner | Town of Truckee<br>10183 Truckee Airport Road,<br>Truckee, California 96161 | 530.582.2934 | | dnishimori@townoftruckee.com |
| Jaime LaChance, Assistant Planner | Same | 530.582.2927 | | JLaChance@townoftruckee.com |
| *State and Federal Permitting Agencies (other than lead agencies)* | | | | |
| Alan Miller, Sr. Water Resources Control Engineer/Permitting Supervisor (Regulatory) | Lahontan Regional Water Quality Control Board<br>2501 Lake Tahoe Blvd.<br>South Lake Tahoe, CA 96150-7704 | 530.542.5430 | | AEMiller@waterboards.ca.gov |
| Doug Cushman Sr. Water Resources Control Engineer/Non-Point Source (Timber Waiver) | Lahontan Regional Water Quality Control Board<br>2501 Lake Tahoe Blvd.<br>South Lake Tahoe, CA 96150-7704 | 530.542.5417 | | dcushman@waterboards.ca.gov |
| Tobi Tyler, Water Resources Control Engineer/Water Quality (Regulatory) | Lahontan Regional Water Quality Control Board<br>2501 Lake Tahoe Blvd.<br>South Lake Tahoe, CA 96150-7704 | 530.542.5435 | | ttyler@waterboards.ca.gov |

# ATTACHMENT B (Continued)

| Contact Name and Title | Address | Phone | Cell Phone | Email Address |
|---|---|---|---|---|
| Kristine Hansen, Army Corps of Engineers – Reno Field Office – Regulatory Division | 300 Booth Street, Room 2103 Reno, NV 89509 | 775.784.5304 | | kristine.s.hansen@usace.army.mil |
| Ron Mills, North Area Branch Inspector, CalTrans<br>Dist 3 - Traffic Operations Office of Encroachment Permits | 703 B Street, Marysville, CA 95901 | 530.755.6688 | | ron_mills@dot.ca.gov |
| Tamara Sasaki, California State Parks, Sr. Env Scientist | PO Box 266<br>Tahoma, CA 96142 | 530.525.9535 | | Tamara.Sasaki@parks.ca.gov |
| Darrel Cruz, Washoe Tribe – Tribal Historic Preservation Officer | | | | |
| Mike Bacca, CalFire – Forester III, Cascade, Sierra & Southern Regions Forest Practice Manager | 6105 Airport Road<br>Redding, CA 96002 | 530.224.2481 | | mike.bacca@fire.ca.gov |
| Jeff Dowling, CalFire – Forest Practice Inspector Truckee | 10277 Truckee Airport Rd<br>Truckee, CA 96161 | 530.587.8926 | 530.277.7822 | Jeff.dowling@fire.ca.gov |
| Dennis Hall, CalFire, Staff Chief, Forest Practice | Sacramento, CA | 916.653.9422 | | |
| Hardy Bullock | Truckee Tahoe Airport District<br>10356 Truckee Airport Road<br>Truckee, California 96160 | 530.587.4119 ext. 106 | | hardy.bullock@truckeetahoeairport.com |

# ATTACHMENT C

*Sample Site Inspection Form*

# ATTACHMENT C
# Sample Site Inspection Form

## MITIGATION MONITORING, COMPLIANCE, AND REPORTING PROGRAM

DUDEK

## Site Inspection Form

| | | | |
|---|---|---|---|
| **Project:** | 625 and 650 Electrical Line Upgrade Project (Application A. 10-08-024) | **Date:** | |
| **Owner:** | California Pacific Electric Company (CalPeco) | **Project Component:** | |
| **Project Manager:** | TBD | **Report Number:** | |
| **Lead Agency:** | California Public Utilities Commission | **Representative:** | Michael Rosauer |

### SITE INSPECTION CHECKLIST

| **Air Quality** | **Yes** | **No** |
|---|---|---|
| Is dust control being implemented (i.e., access roads watered, haul trucks covered, streets cleaned on a regular basis)? | | |
| Do vehicles or equipment appear to be idling unnecessarily? | | |
| **Biology** | **Yes** | **No** |
| Are appropriate measures in place to protect sensitive habitat (i.e., flagging, signage, exclusion fencing, biological monitor)? | | |
| Are all activities being conducted within the approved work limits? | | |
| Have impacts occurred to adjacent habitat (sensitive or non-sensitive)? | | |
| **Cultural and Paleontological Resources** | **Yes** | **No** |
| Are known cultural resources clearly marked for exclusion? | | |
| Is a cultural monitor on site if grading is occurring near known cultural sites? | | |
| Is a paleontological monitor on site if grading is occurring (see mitigation measure for specifications)? | | |
| **Hazardous Materials** | **Yes** | **No** |
| Have all spills been cleaned up in accordance with the project's SPCC? | | |
| Are fuels, oils, lubricants, and other hazardous materials on site labeled and stored in appropriate containers? | | |
| **Water Quality** | **Yes** | **No** |
| Have temporary erosion and sediment control measures been installed? | | |
| Are BMPs in good condition and functional? | | |
| Is mud tracked onto roadways cleaned up in accordance with the project's SWPPP? | | |

## DESCRIPTION OF OBSERVED ACTIVITY

## MITIGATION MEASURES VERIFIED

## COMPLIANCE

☐ Project is in compliance with environmental mitigation measures

☐ **Minor Deviation**

☐ **Non-Compliance Report**

## ISSUES REQUIRING FOLLOW-UP:

| Issue Requiring Follow-Up | Calpeco Notification | Corrective Actions Implemented by Calpeco |
|---|---|---|
| | | |
| | | |
| | | |

# ATTACHMENT C (Continued)

**Photos:**

| | |
|---|---|
| | |
| | |

**Completed by:**

Name: _____

Firm: _____

**Distribution:**

Date: _____

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# ATTACHMENT D

*Minor Project Refinement Request Form*

# ATTACHMENT D
# Minor Project Refinement Request Form

**CALIFORNIA PACIFIC ELECTRIC COMPANY (CALPECO)**
**625 AND 650 ELECTRICAL LINE UPGRADE PROJECT**
## MINOR PROJECT REFINEMENT REQUEST FORM

| | | | |
|---|---|---|---|
| **Date Submitted:** | | **Request #:** | |
| **Date Approval Required:** | | **Landowner:** | |
| **APN:** | | | |

**Refinement from (check all that apply):**

| | | | | |
|---|---|---|---|---|
| ☐ Mitigation Measure | ☐ APM | ☐ Project Description | ☐ Drawing | ☐ Other |

**Identify source (mitigation measure, project description, etc.):**

**Attachments (check all that apply):**

| | | | |
|---|---|---|---|
| ☐ Refinement Screening Form (see Attachment A) | ☐ Photos | ☐ Maps | ☐ Other |

**Under Order 3 of the Decision Granting CalPeco Permit to Construct the 625 and 650 Electrical Line Upgrade Project (10-08-024), 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).**

**(a) Is the proposed refinement outside the geographic boundary of the EIR study area?**

**(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?**

**(c) Does the proposed refinement conflict with any mitigation measure or applicable law or policy?**

**(d) Does the proposed refinement trigger an additional permit requirement?**

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

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

| Date refinement is expected to be implemented: | |
|---|---|

**Calpeco Approvals**

| Title | Name | Approval Initials | Date | Conditions (see attached) | |
|---|---|---|---|---|---|
| Project Manager | | | | ☐ Yes | ☐ No |
| Environmental Project Manager | | | | ☐ Yes | ☐ No |
| Construction Manager | | | | ☐ Yes | ☐ No |
| Water Quality Specialist | | | | ☐ Yes | ☐ No |
| Biology Resources Lead | | | | ☐ Yes | ☐ No |
| Cultural Resources Lead | | | | ☐ Yes | ☐ No |
| Mitigation Lands Lead | | | | ☐ Yes | ☐ No |

**Landowner Approval (if required)**

| Landowner Name | Signature or Other Consent (see attached) | Date |
|---|---|---|
| | | |

**Resource Agency Coordination**

| Resource Agency | Name | Action Required | Date | Documentation (see attached if yes) | |
|---|---|---|---|---|---|
| | | | | ☐ Yes | ☐ No |
| | | | | ☐ Yes | ☐ No |
| | | | | ☐ Yes | ☐ No |

## ATTACHMENT A: REFINEMENT REQUEST SCREENING FORM

## MINOR PROJECT REFINEMENT REQUEST SCREENING FORM

### RESOURCE EVALUATION

The proposed minor project refinement was evaluated to verify that the minor project refinement would 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 EIR. The following table provides a brief summary of the potential impact for each resource area analyzed in the EIR.

| EIR Section | Summary of Potential Impacts |
|---|---|
| Aesthetics | |
| Agriculture Resources | |
| Air Quality | |
| Biological Resources | |
| Cultural and Paleontological Resources | |
| Geology and Soils | |
| Public Health and Safety | |
| Hydrology and Water Quality | |
| Land Use and Planning | |
| Mineral Resources | |
| Noise | |
| Population and Housing | |
| Public Services and Utilities | |
| Recreation | |
| Transportation and Traffic | |
| Climate Change | |

**ATTACHMENT B: SITE MAP**

**ATTACHMENT C: REPRESENTATIVE PHOTOGRAPHS**


CALIFORNIA PACIFIC ELECTRIC COMPANY (CALPECO)
625 AND 650 ELECTRICAL LINE UPGRADE PROJECT

**Minor Project Refinement Request #**
**Attachment C: Representative Photographs**

| |
|---|
| |
| **Photograph 1:** |

| |
|---|
| |
| **Photograph 2:** |

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