SAN DIEGO GAS & ELECTRIC COMPANY

CLEVELAND NATIONAL FOREST
POWER LINE REPLACEMENT PROJECTS
HABITAT RESTORATION PLAN

AUGUST 2016

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A Sempra Energy utility℠

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1 – INTRODUCTION

This Habitat Restoration Plan (Plan) describes the measures that will be taken by San Diego Gas & Electric Company (SDG&E) and its contractors to ensure that temporary work areas used during construction of the Cleveland National Forest Power Line Replacement Projects (Project) are restored to near pre-construction conditions and to promote long-term stabilization of the Project rights-of-way (ROWs). Figure 1: Project Overview Map provides an overview of the Project and depicts the location of each transmission line and distribution circuit. The Project includes the following components:

- replacement of approximately 1,400 existing wood poles with fire-resistant, weathered steel poles;
- undergrounding of approximately 26 miles of existing 12 kilovolt (kV) distribution lines;
- removal of approximately 30 miles of existing 12 kV and 19 miles of existing 69 kV overhead facilities; and
- closure of 24 miles of access roads.

This Plan was prepared in accordance with SDG&E's Subregional Natural Community Conservation Plan (NCCP) Section 7.2 Habitat Enhancement Measures and serves to satisfy the requirements of Mitigation Measure (MM) BIO-4 from the Project's Final Environmental Impact Report/Environmental Impact Statement's Mitigation Monitoring, Compliance, and Reporting Program (MMCRP) and the United States Forest Service (USFS) Record of Decision (ROD). Additionally, MM BIO-5, MM BIO-8, MM BIO-32, and MM HYD-5 are also addressed in this Plan as they include specific procedural requirements of herbicide applications that may pertain to habitat restoration efforts.

2 – OBJECTIVES

The purpose of this Plan is to prescribe enhancement techniques through vegetation restoration for temporary work areas, and identify SDG&E's responsibilities in the restoration process. This Plan provides specific information for implementing MM BIO-4 and MM BIO-5, as well as the means of monitoring the effectiveness of restoration through established success criteria. Additionally, the management practices and activities in this Plan are intended to accomplish the following objectives:

- Describe restoration techniques for temporarily disturbed areas to achieve goals set forth in Section 7.2 Habitat Enhancement Measures of SDG&E's Subregional NCCP

- Ensure that MM BIO-4 (as stipulated in the Project's MMCRP) and other resource protection permits are implemented through a comprehensive restoration approach

- Allow the Habitat Restoration Specialists (HRS) flexibility in prescribing and/or modifying long-term stabilization measures within the context of approved mitigation and based on site-specific conditions at the time of construction

- Establish success criteria and monitoring specifications consistent with SDG&E's Subregional NCCP for revegetation of temporarily disturbed areas and for USFS-managed lands consistent with USFS requirements

Attachment A: Project Components and Vegetation Mapping depicts vegetation communities crossed by the Project.[1] Temporarily disturbed areas that previously lacked vegetation—including paved surfaces, access roads, and areas of non-native vegetation—will be contoured and restored to pre-construction conditions. This Plan and the restoration methods herein do not address the decommissioning of access roads. Per MM HYD-3 of the MMCRP, an Access Road Decommissioning Plan will be prepared for review and approval by the California Public Utilities Commission (CPUC) and the USFS within one year of the Project approval or permit issuance.

3 – MITIGATION MEASURES AND NCCP AND FOREST SERVICE REQUIREMENTS

3.1 MITIGATION MEASURES

MMs included in the MMCRP and ROD for the Project and pertaining to the implementation of this Plan are listed in the following subsections.

3.1.0 MM BIO-4 – Restore all temporary construction areas pursuant to a Habitat Restoration Plan (HRP)

MM BIO-4 of the MMCRP is addressed within Section 2 – Objectives and Section 4 – Plan Implementation of this Plan. MM BIO-4 of the MMCRP states the following:

> "All previously undisturbed temporary work areas not subject to long-term use of ongoing vegetation maintenance shall be revegetated with native species characteristic of the adjacent native vegetation communities in accordance with a HRP as described in SDG&E NCCP 7.2 Habitat Enhancement Measures. Restoration techniques may include the following: hydroseeding, hand-seeding, imprinting, and soil and plant salvage. Any salvage and relocation of species considered desert native plants shall be conducted in compliance with the California Desert Native Plant Act. The HRP shall include success criteria and monitoring specifications and shall be approved by the permitting agencies prior to construction of the project. At the completion of the project construction, all construction materials shall be completely removed from the site. Topsoil located in areas to be restored will be conserved and stockpiled during the excavation process for use in the restoration of sites requiring restoration. Wherever possible, vegetation will be left in place or mowed, and

[1] Chambers Group, Inc. conducted biological surveys during the spring, summer, and fall of 2010 in support of the Joint Final EIR/EIS prepared by the CPUC and Forest Service for the Project. Vegetation communities crossed by the Project were mapped by Chambers Group, Inc. in accordance with Holland (1986) or Gray and Bramlet (1992) and were described within the Joint Final EIR/EIS based on San Diego County descriptions (Oberbauer et al. 2008) (Chambers Group, Inc., 2012).

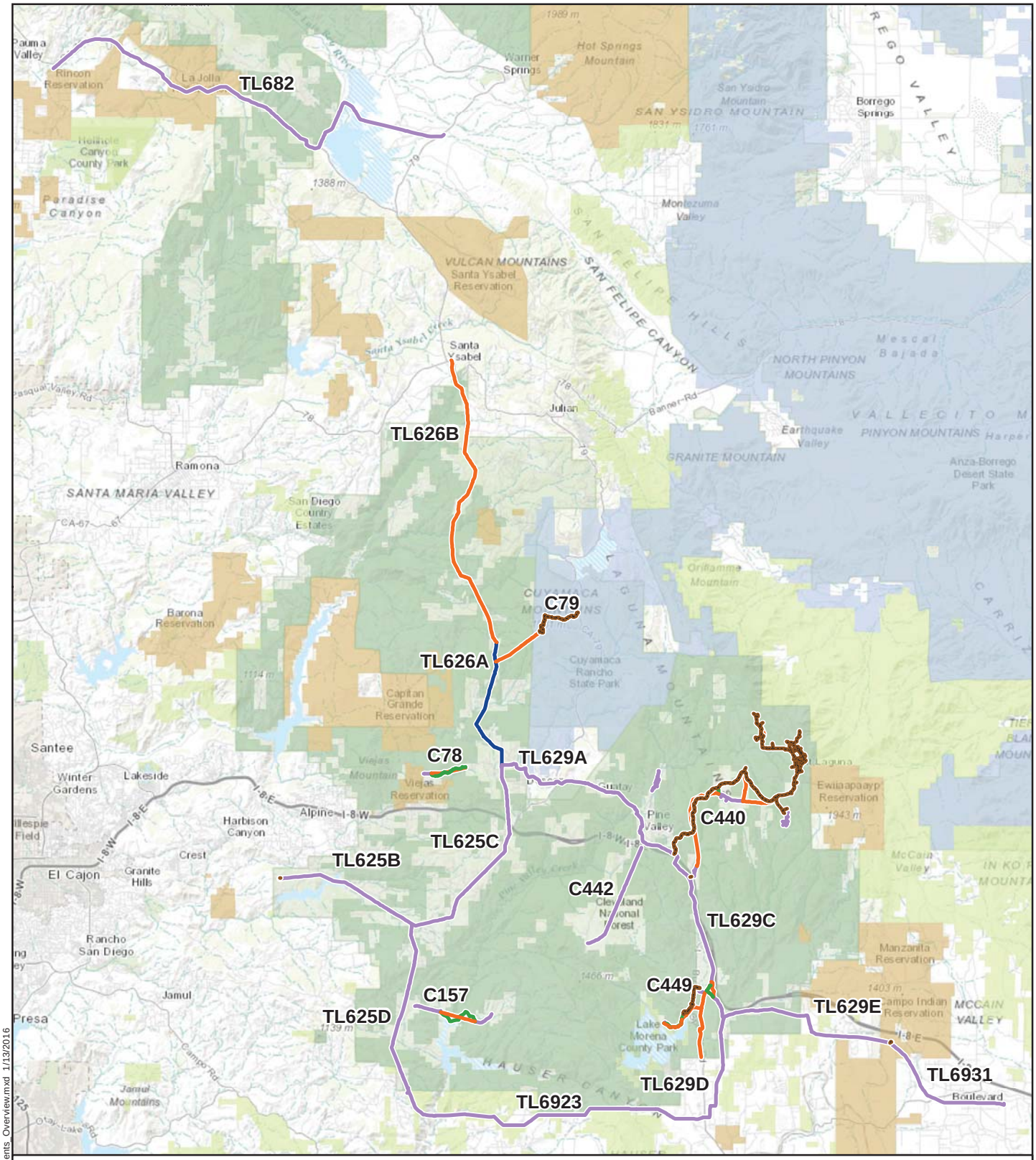

Figure 1: Project Overview Map

Cleveland National Forest
Power Line Replacement Projects

- New Steel
- Removal
- Undergrounding
- Wood-to-Steel 12 kV
- Wood-to-Steel Replacement

- California Department of Parks and Recreation
- U.S. Bureau of Land Management
- U.S. Forest Service
- Bureau of Indian Affairs Land

1:364,000

0 5 10 Miles

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not grubbed, per the NCCP, to avoid excessive root damage and to allow for natural regrowth following construction. Temporary impacts shall be restored sufficient to compensate for the impact to the satisfaction of the permitting agencies (depending on the location of the impact). If restoration of temporary impact areas does not meet success criteria per the HRP, the temporary impact shall be considered a permanent impact and compensated accordingly (refer to MM BIO-5)."

3.1.1 MM BIO-5 - Provide habitat compensation or restoration for permanent impacts to native vegetation communities.

MM BIO-5 of the MMCRP pertains to compensation for restored temporary impact areas that do not meet success criteria as described in Section 6 – Restoration Monitoring of this Plan. MM BIO-5 of the MMCRP states the following:

"Permanent impacts to all native vegetation communities shall be mitigated by either on- or off-site restoration of suitable but degraded habitat, or by the procurement and protection of off-site habitat as compensation for permanent impacts. Permanent impacts shall be compensated at a minimum of a 1:1 ratio and in accordance with SDG&E NCCP 7.4 Mitigation Credits or as required by the permitting agencies. Where discrepancies occur, the higher of the two ratios will be applied, but these ratios are not additive (e.g., ratios of 1:1 and 2:1 do not equal 3:1. Mitigation would be applied at the 2:1 ratio only). Impacts to vegetation communities on Forest Service land will be mitigated as follows: 2:1 for habitats that are sensitive or support listed species; 2:1 for coastal sage scrub, chaparral, grassland, or oak/conifer forest; and 3:1 for riparian oak woodland. "Disturbed" habitat is to be mitigated per ratio for the surrounding vegetation. Forest Service requirements related to MM BIO-5 will only apply to National Forest System lands.

Habitat compensation shall be accomplished through agency-approved land preservation or mitigation fee payment for the purpose of habitat compensation of lands supporting comparable habitats to those lands impacted by the proposed power line replacement projects. Land preservation or mitigation fee payment for habitat compensation must be completed within 36 months of permit issuance. Habitat restoration may be appropriate as compensation for permanent impacts provided that restoration is demonstrated to be feasible and the restoration effort is implemented pursuant to a Habitat Restoration Plan, which includes success criteria and monitoring specifications as described for MM BIO-4. All habitat compensation and restoration used as mitigation for the proposed power line replacement projects on public lands shall be located in areas designated for resource protection and management. All habitat compensation and restoration used as mitigation for the proposed power line replacement projects on private lands shall include long-term management and legal protection assurances."

3.1.2 MM BIO-8 – Procedural requirements for herbicide applications

MM BIO-8 of the MMCRP is addressed in Section 4.3.5 Weed Treatment of this Plan. MM BIO-8 of the MMCRP states the following:

"Herbicide applications shall follow measures as described in MM HYD-5 and MM BIO-32. In addition, herbicides shall only be applied to the minimum area necessary to achieve fire

safety objectives and not used in excess or inadvertently be applied to special-status plant species in the vicinity. If the professional is unfamiliar with the identification of special-status plant species, an SDG&E biologist shall provide additional supplemental training prior to the application of herbicides along the project as described in MM BIO-32. This training will be administered by an SDG&E biologist and shall include an overview of special-status species along the ROW, identification features, and avoidance measures."

3.1.3 MM BIO-32 – Procedural requirements for pesticide applications

MM BIO-32 of the MMCRP is addressed in Section 4.3.5 Weed Treatment of this Plan. MM HYD-5 of the MMCRP states the following:

"Herbicide application shall occur under the direction of a professional applicator with an Agricultural Pest Control Adviser License. If the professional has only obtained a Qualified Applicator License, an SDG&E biologist shall provide additional supplemental training prior to the application of pesticides along the project right-of-way. This training will be administered by an SDG&E biologist and shall include topics, such as pertinent laws and regulations (California Department of Fish and Game Code, Migratory Bird Treaty Act, and Endangered Species Act), that may impact special-status wildlife species."

3.1.4 MM HYD-5 – Procedural requirements for pesticide and herbicide applications

MM HYD-5 of the MMCRP is addressed within Section 4.3.5 Weed Treatment of this Plan. MM HYD-5 of the MMCRP states the following:

"Pesticide and herbicide application shall occur under the direction of a professional pesticide applicator with either a Qualified Applicator License (QAL) or an Agricultural Pest Control Adviser License in the State of California (see MM BIO-32 for additional biological training requirements for applicators with a QAL). Label instructions and all applicable laws and regulations shall be strictly followed in the application of pesticides and herbicides and disposal of excess materials and containers. Only those materials registered by the EPA for the specific purpose planned shall be authorized for use. Before applying any pesticides or herbicides on National Forest System land, SDG&E shall receive approval from the Forest Service for all pesticides and herbicides proposed for use on National Forest System land prior to their application on these lands. For portions of the project crossing BLM lands, SDG&E shall obtain a BLM Pesticide Use Permit as well. Additionally, prior to any pesticide or herbicide use, SDG&E shall submit an anticipated schedule to the Forest Service for planned use within the CNF on an annual basis, or more frequently as needed, and will work with the Forest Service to determine the appropriate pesticide and herbicide per location."

3.2 NCCP REQUIREMENTS

Section 7.2 Habitat Enhancement Measures of SDG&E's Subregional NCCP defines an "enhancement site" as a site that is unlikely to recover from Project impacts without assistance and requires habitat restoration. Project areas temporarily disturbed by construction activity will be restored as enhancement sites in accordance with the Enhancement and Monitoring Program,

which is an integral part of SDG&E's Subregional NCCP. For this Project, enhancement sites will be referred to as restoration areas.

Section 7.2 Habitat Enhancement Measures of SDG&E's Subregional NCCP states that "habitat enhancement increases the value of biological resources in an impacted area, thereby improving the value or that habitat for Covered Species.[2] Habitat enhancement activities shall occur under the direction of a Habitat Restoration Specialist. All disturbed areas, whether inside or outside of preserves, and which do not need to be maintained in a cleared state, shall be enhanced, either through vegetation restoration, habitat reclamation, or a combination of the two."

3.3 FOREST SERVICE REQUIREMENTS

For temporary impacts on USFS-managed lands, restoration will also be conducted in a manner consistent with USFS requirements, as defined and described throughout this Plan.

4 – PLAN IMPLEMENTATION

SDG&E and its contractors will take all reasonable measures to ensure that temporary work areas are restored to near pre-construction conditions. This Plan has been prepared to incorporate performance-based best management practices and assigns HRS, approved by the CPUC and USFS, to oversee the restoration effort. The HRS will have the ability to modify procedures within the context of this Plan if the changes accomplish the following:

- provide better protection of natural resources in the Project area;
- are consistent with the requirements of the MMCRP and SDG&E's Subregional NCCP; and
- facilitate successful restoration and long-term stabilization.

SDG&E has designated two HRSs to prepare and administer this Plan and evaluate the proposed methods for restoration. The following HRSs have been approved by the CPUC and USFS and can be contacted at the following address and phone numbers:

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Insignia Environmental
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Encinitas, CA 92024
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AECOM
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San Diego, CA 92101
Office (XXX) XXX-XXXX
Mobile: (XXX) XXX-XXXX

The HRSs will be on-call and available to assist SDG&E and its contractors at all times during construction and restoration activities. SDG&E will review and authorize any modifications to

[2] Covered species are listed in Table 3.1 Covered Species List of SDG&E's Subregional NCCP. For the purposes of the SDG&E Subregional NCCP, the term "covered species" is defined within the Subregional NCCP Implementing Agreement.

the implementation methods as long as the changes comply with this Plan and are approved by an HRS.

4.0 PRE-CONSTRUCTION DOCUMENTATION

Any temporary work areas that impact native vegetation communities and are not subject to long-term use or ongoing vegetation management will be revegetated with native species characteristic of adjacent native vegetation communities.[3] Prior to ground-disturbing activities, SDG&E will compile photographic documentation of all temporary work areas that are subject to restoration in accordance with this Plan. In addition, SDG&E will collect baseline condition data at the planned work areas for reference, including native plant cover, non-native plant cover, species diversity, and information on the physical conditions of the site. Other pertinent information, including topsoil depth and unusual features (e.g., culverts, rock outcrops, rock walls, artificial fill, or compaction). These data will be used to establish the success standards for each site, as described in Section 6.0.2 Success Standards. Potential topsoil salvaged locations will be identified for implementation during construction. Pre-construction documentation will also be incorporated into Restoration Monitoring Reports, as described in Section 6.1 Reporting, to further demonstrate that SDG&E's goals and objectives contained within the Subregional NCCP are achieved, as well as Forest Service requirements.

4.1 PLANT SALVAGE

Per MM BIO-4, salvage and relocation of species considered desert native plants will be conducted in compliance with the California Desert Native Plan Act (CDNPA). For this Project, plants in the families of Agavaceae and Cactaceae qualify as desert native plants in San Diego County under the CDNPA; however, the CDNPA states it does not apply to a publicly or privately owned public utility when acting in the performance of their obligation to provide service to the public (California Food and Agricultural Code Section 80117c).

Therefore, as a best management practice to support restoration goals, desert native plants will be avoided during Project construction when possible. If impacts are unavoidable, SDG&E may salvage select individual succulent plants within the Agavaceae and Cactaceae families, but success standards for these salvaged plants will not be required.

Salvage and relocation of desert native plant species and special-status plant species will be conducted in accordance with the Project Special-Status Plant Species Salvage and Relocation Plan. The HRS will also have the option to identify additional species for which native plant salvage will be implemented to support restoration goals.

4.2 VEGETATION CLEARING AND SOIL SALVAGE

Clearing and grading activities will be limited to the defined work limits and vegetation will be left in place wherever possible.[4] Where grubbing and/or grading are not required, vegetation will

[3] Temporary work areas may include staging or laydown areas, areas essential for equipment access, or other provisional ground disturbance associated with the Project components listed in Section 1 – Introduction.

[4] In accordance with MM BIO-1 of the MMCRP, all construction and construction-related activities including clearing and grading will be confined to the minimum necessary. The specific limits of clearing and grading within

be mowed to avoid excessive root damage and to allow for natural recruitment following construction. Native vegetation that is removed will be mulched and stockpiled separately for re-use during restoration, as determined by the HRS.

Topsoil will be salvaged from all temporary work areas where grading is required and where restoration activities will be conducted. Topsoil will be stripped in areas to be restored and segregated during grading and trenching phases and stockpiled along the edge of the work area for use during restoration. Topsoil depths along C78 (a 12 kV distribution line) range from eight inches to 30 inches. Both TL625E and TL629B (69 kV power lines) include some areas where there is little to no topsoil; however, in most areas, topsoil ranges from 10 inches to 60 inches in depth. In areas where no existing topsoil is present within temporary impacts area (e.g., areas of exposed bedrock), SDG&E will not conduct topsoil segregation or hydro-seeding activities.

Where topsoil is present, SDG&E will remove and salvage the top four to six inches of topsoil to maximize the amount of organic matter and native seed base available within restoration areas. When adequate work space allows, topsoil will be stockpiled and maintained along the edge of the work area. However, in areas where there is limited work space due to factors such as topography, right of way limitations, and/or Environmental Sensitive Areas; topsoil may need to be stockpiled in other work areas and/or staging yards. Topsoil will generally be returned to the area where it was first excavated and covered with native mulch, when available. Erosion and sediment controls will be deployed in accordance with the Storm Water Pollution Prevention Plan (SWPPP) for the Project to protect salvaged topsoil. Temporary erosion and sediment control devices will be installed, as necessary, to minimize sediment transport and to ensure topsoil is preserved for future restoration efforts. The actual depth of topsoil to be salvaged will be determined by SDG&E's HRS in the field based on soil depths and conditions observed during construction. Topsoil will not be salvaged in areas that will be permanently impacted, where fill will be imported, within actively grazed lands or active agricultural land (noted as "Pastureland/Cultivated Agriculture" in the attached maps), within areas defined as non-native grassland, or where soil has been previously highly disturbed.

4.3 SITE PREPARATION

4.3.0 Construction Material and Equipment

Following the completion of Project activities, the Construction Contractor will begin removing construction debris from the work areas.[5] All non-hazardous construction debris will be removed from the site immediately following the completion of Project activities. Waste debris will be properly disposed of or recycled at a facility permitted to receive recyclable material or solid waste in compliance with federal, state, and local regulations. Prior to beginning restoration efforts, SDG&E environmental inspection staff and the HRS will perform inspections to verify that all construction debris has been properly removed. Construction equipment that is not required for final cleanup and seeding will be transported to the staging areas or demobilized from the Project.

the defined work limits will be delineated with stakes and/or flagging prior to beginning work in any area and exclusive-use easements will be clearly identified.

[5] The initiation of cleanup activities will depend on the location and the phase of construction.

4.3.1 Compaction

Soil compaction can increase surface runoff, reduce water-holding capacity, and increase the potential seed loss due to wind erosion. Prior to initiating final grading, the HRS and/or SDG&E—in coordination with the Construction Contractor—will determine if soil decompaction is necessary by comparing the work area to adjacent non-disturbed areas by using a penetrometer per the manufactures recommendations, or other related method. If decompaction is required, it will be performed with a deep-tillage instrument, the teeth of a backhoe bucket, a bulldozer ripper, or a similar mechanism prior to re-spreading the topsoil. Prior to entering the Project area, construction equipment used for decompaction will be inspected by SDG&E to verify that it is free of soil, mud, or vegetative materials. In some cases where compaction is only on the surface, scarifying during seedbed preparation will be sufficient.[6]

4.3.2 Final Grade

Once all of the construction debris has been removed, the Construction Contractor will return temporary work areas to near pre-construction contours and elevations. Topsoil that was stockpiled during grading and grubbing associated with construction will be returned to restored areas where the topsoil was originally harvested. Care will be taken to not impact non-disturbed areas; however, the edges of temporary work areas will be slightly feathered to blend in with immediately adjacent areas.

4.3.3 Restoration of Temporary Impacts to Waters

Temporarily impacted ephemeral and intermittent drainages will be restored in accordance with the California Department of Fish and Wildlife (CDFW) Section 1602 Streambed Alteration Agreement, U.S. Army Corps of Engineers Nationwide Permits, and Regional Water Quality Control Board Water Quality Certifications. Fill will be removed from drainages, and the drainages will be returned to pre-construction contours and elevations. Additional stabilization measures may be necessary and will be implemented as recommended by the HRS, the Project's Qualified SWPPP Developer (QSD) or Qualified SWPPP Practitioner (QSP), and in accordance with wetland permits if applicable.

4.3.4 Seedbed Preparation

Prior to seeding and during the spreading of stockpiled topsoil and mulch, the area to be seeded will be scarified using the teeth of a backhoe bucket, harrow, disc, or other similar implementation method. The HRS will inspect the seedbed prior to conducting seeding, as described in Section 4.4 Seeding.

4.3.5 Weed Treatment

For the purposes of this Project, weeds are defined as California Invasive Plant Council (Cal-IPC) weeds listed as "high" or "moderate" threats to California wildlands (Cal-IPC 2006); however, the HRS may identify other target weeds for control that may be affecting success of the restoration areas. Weed treatment will be conducted via hand pulling, using mechanical

[6] Scarification is the process of loosening the surface layer. The process improves soil-to-seed contact and permeability, and facilitates seed cover when the soil is back-dragged after the seed is applied.

means, or applying herbicides; whichever is most appropriate on a case by case basis. If temporary impact areas contain weeds, weed treatment will be conducted prior to initial seeding. As determined by the HRS, weed treatment will continue until success criteria for the seeded areas have been met or exceeded as discussed in Section 6.0 Monitoring, Success Criteria, and Remedial Measures.

In accordance with MM BIO-32, herbicide application will occur in areas determined by the HRSs or in conjunction with USFS on their managed lands. All herbicide application will be under the direction of a professional applicator with an Agricultural Pest Control Adviser License or Qualified Applicator License with supplemental training provided by an SDG&E biologist (MM BIO-32). The HRS will be responsible for determining the most effective time to conduct any necessary weeding and/or extended weed treatment prior to seeding, and ensuring that all weed management activities minimize the potential for affecting native plant species within the restoration area(s). Effectiveness and implementation of weed control methods will be evaluated on a site by site basis and as further described in Section 6.0 Monitoring, Success Criteria, and Remedial Measures.

In accordance with MM BIO-8, herbicides will only be applied to the minimum area necessary and will not be used in excess or inadvertently applied to special-status plant species in the Project vicinity. If the applicator is unfamiliar with the identification of special-status plant species, an SDG&E biologist will provide additional supplemental training prior to the application of herbicides. This training will provide an overview of special-status species along the Project ROWs and ensure adherence to laws and regulations, such as the California Fish and Game Code, Migratory Bird Treaty Act, and Endangered Species Act. Label instructions and applicable laws and regulations will be strictly followed in the application of pesticides and herbicides and the disposal of excess materials and containers. Only materials registered by the U.S. Environmental Protection Agency will be authorized for use on the Project.

In accordance with MM HYD-5, SDG&E will receive approval from the USFS for all pesticides and herbicides proposed for use on National Forest System land prior to their application. Additionally, all pesticide and herbicide application will be in accordance with the Invasive Weed Management on the Cleveland National Forest (CNF) Environmental Assessment. SDG&E will submit an anticipated schedule to the USFS for planned use within the CNF on an annual basis, or more frequently if needed, and will work with the USFS to determine the appropriate pesticide and herbicide in each location. For portions of the Project crossing lands managed by the U.S. Bureau of Land Management (BLM), SDG&E will coordinate with the BLM Field Office and provide the required environmental analysis needed to obtain a BLM Pesticide Use Permit prior to herbicide application.

4.4 SEEDING

All previously undisturbed, temporary work areas that are not subject to long-term use or ongoing vegetation maintenance will be revegetated with native species that are characteristic of the adjacent native vegetation communities, as described in Section 7.2 Habitat Enhancement Measures of SDG&E's Subregional NCCP. Temporarily disturbed work areas will be seeded, but no soil additives or amendments will be applied to the seeded areas. If seed loss due to granivory, desiccation, or other causes occurs, re-seeding will be prescribed by the HRS, as appropriate, to support achievement of success criteria described in Section 6.0 Monitoring,

Success Criteria, and Remedial Measures. Attachment B: Prescribed Seed Mix Application Mapping depicts the prescribed base seed mixes for temporary impact areas, Project components, and site-specific pole numbers. Locations of seed mix applications and prescribed seed mixes will be refined based on the actual temporary impacts and field verification of site conditions prior to, during, and after Project construction. As described in the following sections, seed mixes, application methods, and rates[7] may be modified by the HRS to ensure that the objectives described in this Plan and Section 7.2 Habitat Enhancement Measures of SDG&E's Subregional NCCP are achieved. Modifications to this Plan will require approval by the USFS for activities on USFS-managed lands.

Loss and/or damage of tree species are not anticipated to occur as a result of Project activities. In the event that trenching related to undergrounding activities damages or leads to the removal of a native tree on USFS-managed land, the HRS will develop a mitigation strategy for approval by the USFS. The tree mitigation strategy will identify a comparable tree replacement or compensation action, as well as subsequent implementation procedures for mitigating the loss of trees in areas where no future conflict with operations and maintenance activities will occur.

4.4.0 Seed Mixes

The Project area supports a variety of vegetation communities; therefore, several seed mixes will be utilized. The HRS will evaluate and oversee the acquisition of the seed mixes to ensure temporarily disturbed areas are revegetated with native species that are characteristic of the adjacent native vegetation communities. In accordance with Section 7.2 Habitat Enhancement Measures of SDG&E's Subregional NCCP and prior to construction, reference areas will be identified within SDG&E's Project ROW and within or adjacent to each restoration area. These reference sites will contain similar vegetation, percent native plant composition, and absolute percent cover as the work sites. Prescribed seed mixes for each temporarily disturbed area are based on the composition of individual plant species at associated reference sites. In addition, large woody species will not be included in the seed mix within 10 feet of SDG&E facilities, such as distribution poles and transmission structures. SDG&E's database will document the source of each seed mix and the restoration sites where each seed mix is applied, as described in Section 6.0 Monitoring, Success Criteria, and Remedial Measures.

SDG&E will make every effort to acquire seed mixes from and blended by a local distributor and that are sourced from an area with a similar elevation and coastal proximity as the temporary work area. If local seed stock is not commercially available, other options such as focused seed collection within the vicinity of the Project may be recommended by the HRS. For USFS-managed lands, the first source for seeds should be from local, focused seed collections within the Cleveland National Forest. Seed source shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit. A seed collection permit will be required by USFS for seed collection on USFS-managed lands. Seed collection feasibility will depend on timing of individual construction segments and land owner permissions. Should seed collection not be able to provide all seed resources needed for successful restoration on USFS-managed lands,

[7] Germination testing will be conducted by the seed supplier to determine pure live seed quantities and consequent application rates.

commercial seed sources may also be used, but only with approval from USFS. All seed will be weed-free, and each bag of seed will be properly labeled with the species, percentage of seed of each species, percentage of germination of each species, purity of seed, and inert ingredients.

Seed mixes have been developed for temporarily disturbed areas of native vegetation. Attachment C: Prescribed Seed Mixes provides the proposed seed mixes for each work area to be restored.[8] The seed mixes represent the HRS' recommended base seed mix for each vegetation community. Each prescribed seed mix is specifically labeled and lists the pounds of pure live seed per acre requirements for each plant species listed in the seed mix. Seed scarification treatments can be applied for species that do not typically germinate well from seed; typically perennial shrub species associated with chaparral vegetation communities. Species for which seed scarification may be utilized for this Project are identified in the seed mixes in Attachment C. Scarification treatments may include hot water depending upon the species. The seed scarification method for a specific species will be prescribed by the HRS. If scarification treatment is utilized, it is recommended that seed be applied with 72 hours of completion of the treatment to prevent the seed from germinating before it is applied to restoration area. In addition, no more than 30% of the seed for a specific species should be treated to ensure that viable seed is applied at the restoration area.

Adjustments to prescribed seed mixes, specific to the work areas along each transmission line and distribution circuit, may be made by the HRS to ensure that the objectives described in this Plan and Section 7.2 Habitat Enhancement Measures of SDG&E's Subregional NCCP are achieved. Guidelines for the prescribed seed mixes and any adjustments are as follows:

- The erosion control seed mixes contain four to five native species, and the native vegetation community seed mixes contain four to 12 native species.
- At least six to eight primary species from each vegetation community seed mix will be utilized based on seed sources and availability.
- Seed mixes may be augmented at the discretion of the HRS with additional native species based on the results of baseline surveys (e.g., reference surveys for restoration areas) to tailor the mix to the local variation of each vegetation community.
- Approved native species may be utilized across seed mixes as appropriate for vegetation communities associated with each of the Cleveland National Forest Power Line Replacement Projects.

SDG&E will provide seed sources to the USFS prior to application on USFS-managed lands. Additionally, focused seed collection locations within and adjacent to USFS-administered land will be identified in coordination with the USFS for application on USFS-managed lands.

4.4.1 Application Methods

Application methods may include hydro-seeding, hand-seeding, or imprinting. Seed application using drill- or range-type seeders is not anticipated. All seeding will occur after final grading

[8] SDG&E will provide seed sources to the USFS prior to application on USFS-managed lands.

and seedbed preparation have been completed and in accordance with the schedule described in Section 5.0 Seeding. All vegetation restoration will be conducted from mid-November through mid-January to take advantage of the rainy season.

Where approved by the HRS, seed may be applied within larger disturbance areas using a hydro-seeding truck with a tower gun and hose. Hydraulic mulch will be applied in conjunction with seed to enhance seed germination and vegetation establishment. Hand application and raking is best suited for small areas that are inaccessible by a hydro-seed truck. Seed applied directly on bare soil will be lightly raked into the soil surface by hand or with a drag chain to ensure adequate soil-to-seed contact.

Imprinting is the mechanical formation of smooth-walled, V-shaped furrows in the soil surface and the subsequent application of seed. This method is best suited for areas that are accessible by bulldozer and where there is a potential problem with weeds.

4.4.2 Seeding Rates

Attachment C: Prescribed Seed Mixes contains the recommended seeding rates for temporary work areas being restored along each transmission line and distribution circuit. Seeding rates vary depending on the seed weight, application method amount of cover needed at each restoration area, habitat type being restored, and species being seeded. For example, the bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.

4.4.3 Irrigation

No irrigation systems will be installed as part of this Plan and restored areas will not require watering by truck. However, restored areas may be watered by truck during abnormally dry conditions or periods of drought in support of success criteria, as recommended by the HRS.

4.5 TEMPORARY EROSION CONTROL

Prior to vegetation establishment, temporary erosion control may be necessary to reduce soil erosion during precipitation events. Hydraulic mulching can be used to reduce soil erosion as well as help to regulate soil temperatures and protect seed from wildlife and wind. If hydraulic mulch is used, it will be either applied after the seed has been applied and achieved soil contact or, if approved by the HRS, can be mixed with the seed. The rate of hydraulic mulch will be a minimum of 1000 pounds per acre but may range from 1000 to 3000 pounds per acre based upon site conditions and the seed mix being utilized. Hydraulic mulch rates will be site specific and will be determined by the HRS and the Projects QSD prior to application. The Construction Contractor will provide sufficient documentation to the HRS to confirm that hydraulic mulch and seed application tanks have been washed, as appropriate, to ensure that vagrant seeds are not applied to restoration areas.

Other forms of erosion control devices such as natural fiber matting or jute netting could be utilized as well. In addition, Attachment C: Prescribed Seed Mixes contains a Temporary

Erosion Control Seed Mix comprised of native seed that may be applied in combination with hydraulic mulch to provide ground cover and to prevent erosion.

5 – RESTORATION SCHEDULE

Restoration efforts will be implemented once construction activities have been completed at any given area along the ROW or once an entire segment has been completed. In some cases, when completion of a Project component occurs outside of the recommended planting season, it may be necessary to implement temporary soil stabilization until the planting season. A temporary erosion control seed mix has been included within Attachment C: Prescribed Seed Mixes for temporary stabilization of disturbed areas along each transmission line and distribution circuit. All disturbed areas that become inactive will be permanently stabilized in accordance with the Project SWPPP and the HRP.

5.0 SEEDING

Several factors affect the end of the site preparation period and the commencement of seeding, including forecasted rainfall throughout the year, the site's response to weed control strategies, and observations of vegetation growth. Seeding will generally occur in mid-November through mid-January to maximize natural rainfall patterns that occur within the Project area, per Section 7.2 Habitat Enhancement Measures of SDG&E's Subregional NCCP. The seeding window may be modified with concurrence from SDG&E to take advantage of the entire rainy season (e.g., earlier than November). Additionally, if interim seeding is deemed advantageous by the Project's QSD and/or QSP in order to satisfy SWPPP requirements, the seed mix will be approved by the HRS prior to use in temporary soil stabilization.

5.1 MAINTENANCE

After seeding, site maintenance visits will occur on a semiannual basis for up to four consecutive years and as deemed necessary by the HRS. Maintenance visits will occur once in the fall and once in the spring of each monitoring year. As recommended by the HRS, maintenance activities will include weed treatment, erosion control, remedial seeding, or other requirements needed to achieve success. Additional maintenance visits may be conducted throughout the year by the maintenance contractor, if needed. Herbicide application will occur under the direction of a professional applicator with an Agricultural Pest Control Adviser License or a Qualified Applicator License. Herbicide treatments will occur in accordance with the Invasive Weed Management on the Cleveland National Forest Environmental Assessment (USFS 2014).

6 – RESTORATION MONITORING

Post-construction monitoring of all restored temporary work areas will be performed by SDG&E to ensure that the restoration effort meets success criteria as described by SDG&E's Subregional NCCP and this Plan. The following subsections describe the monitoring methods, success criteria, and reporting for the post-construction monitoring of restored areas.

6.0 MONITORING, SUCCESS CRITERIA, AND REMEDIAL MEASURES

6.0.0 Monitoring

After construction and initial restoration have been completed, the HRS will monitor Project-wide restoration efforts. Monitoring for maintenance activities will occur, at a minimum, once per month for the first year, once per quarter for the second year, and twice per year during the spring and the fall during the third, fourth, and fifth years. This monitoring will focus on identifying the progress of native plant development in the restoration areas, recommending appropriate maintenance activities, and verifying that the recommended maintenance activities have been conducted. This includes identifying potential problems associated with weeds, herbivory, drought stress, potential erosion problems, etc. New, existing, or potential erosion issues will be identified for repair in a timely manner, as needed and recommended by the HRS.

Monitoring for performance in relation to the success criteria will occur once annually in the spring of each year. The HRS will collect pertinent information through direct observation during annual site visits, including data on native and non-native plant cover, species diversity, and restored physical conditions. Performance monitoring will include the following:

- documenting the percent cover of native and non-native vegetation within the restoration areas;
- comparing restoration areas to pre-Project conditions and/or surrounding undisturbed reference areas;
- documenting all plant species within the restoration areas;
- documenting areas of new, existing, or potential erosion; and
- conducting photographic documentation of restoration areas, pre-Project conditions, and the surrounding undisturbed sites, per SDG&E's Subregional NCCP requirements.

Performance monitoring will include quantification of native and non-native vegetation cover and collection of permanent viewpoint photographs. Annual performance monitoring will be conducted by restoration specialists in the spring after installation, and will continue annually until the site has met the success standards. Performance monitoring of the habitat restoration will be conducted using the relevé method. The relevé method of habitat assessment was developed in Europe and the California Native Plant Society (CNPS) published a Vegetation Sampling Protocol in *A Manual of California Vegetation* (Sawyer and Keeler-Wolf 1995) that was developed as a quantitative sampling technique applicable to vegetation communities in California (CNPS 2000). The relevé method provides information on the physical condition of a site, habitat structure, plant cover (assignment of cover classes), and species diversity that often provide a better assessment of habitat condition as compared to point-intercept transects or quadrats. The relevé method is endorsed by CNPS, CDFW, and USFS. Relevé codes and corresponding cover classes developed for this Project are shown in Table 1: Relevé Cover Class Codes. This method and cover classes are consistent with other SDG&E projects being implemented on USFS-managed lands, as well as with the methods being used to conduct the baseline conditions surveys for the planned work (restoration) areas.

Quantitative performance monitoring data will be collected via handheld electronic devices (e.g., smartphones and/or tablets). Data will be uploaded to a database generally at the end of

each field day (see Section 6.0.1 below). Permanent viewpoint photographs will be established preconstruction and subsequently documented during quantitative performance monitoring visits. Global positioning system (GPS) coordinates will be recorded for the photograph location during the preconstruction site assessments. Photographs for each restoration area will be included in the annual reports.

Table 1: Relevé Cover Class Codes

Cover Class	Taxon Cover in the Plot Area
0	0%
1	>0% – 1%
2	>1% – 5%
3	>5 – 10%
4	>10 – 15%
5	>15 – 25%
6	>25 – 35%
7	>35 – 50%
8	>50 – 75%
9	>75%

6.0.1 SDG&E'sDatabase

SDG&E will be utilized a data base to record and store all data associated with maintenance and performance monitoring for each restoration area. The database will be a Microsoft Access database which is geospatially linked to Geographic Information System data. The database will be used to record the information necessary to comply with Section 7.2 Habitat Enhancement Measures of SDG&E's Subregional NCCP and to produce a report for the U.S. Fish and Wildlife Service and CDFW on SDG&E's restoration activities.

The HRS will be responsible for updating existing database records and adding new records during each monitoring year for restoration areas associated with this Project. This database will be used to support progress reports and annual reports on the status of the restoration program for this Project. Data and photographic documentation will be stored in the database.

6.0.2 Success Standards

Per Section 7.2 Habitat Enhancement Measures of SDG&E's Subregional NCCP, the success standards that will be used to measure the progress and success of the restoration areas will be:

- At least 60 percent of the total vegetation cover -native plant cover,
- species diversity, and
- restored physical conditions.

Per the NCCP, these success standards will be based on achieving a percentage of the native and non-native plant cover and species diversity identified during the baseline condition surveys (e.g., reference surveys). The physical condition of the restored habitat will be monitored, and a determination will be made ("yes" or "no") about whether physical conditions have been adequately restored on-site and/or whether some physical modifications of the site are appropriate. In addition to these standards, the restoration area will be evaluated from a visual perspective to estimate how the restoration area compares in structure, cover, and appearance during the maintenance and monitoring program with the baseline site condition.

The success standards for the 5-year monitoring program are provided in Table 2: Success Standards for 5-Year Program, including interim success standards for each year of the program. If the interim success standards for the restoration areas are not met, remedial measures will be employed as described in Section 6.0.3 Remedial Measures.

This expands the 2 year program described in SDG&E's Subregional NCCP, which provides a mechanism for sign-off if restoration achieves 70 percent of the native plant cover and 140 percent of the non-native plant cover at Year 2 relative to the reference (e.g., baseline condition). SDG&E's Subregional NCCP, also provides a provision that if restoration in certain areas is not feasible, the impacts in these areas can be considered permanent and the appropriate compensatory mitigation can be provided, as described in MM BIO-4 and MM BIO-5.

6.0.3 Remedial Measures

Remedial measures are employed to address restoration areas that do not achieve one or more annual success standard with the intent of getting sites on a trajectory to meet their final success standards. Below is a list of potential remedial measures that would be employed for sites not meeting annual success standards:

- Decompact soil
- Add vertical mulch (to discourage unauthorized access, enhance physical structure, and provide more micro-environments for germination)
- Install site protection measures, such as native plant mulch, weed-free straw mulch, natural fiber (biodegradable) erosion control matting, and weed-free straw wattles
- Conduct supplemental seeding using existing seed inventory and additional future seed collected
- Collect additional seed for application on the day of collection and future remedial seeding efforts
- Install plants (transplants and/or container plants)
- Conduct measures to promote survival and growth of young, perennial shrubs (including installing mini-shade structures, providing herbivore protection, and creating basins to retain moisture)

Table 2: Success Standards for 5-Year Program

Milestone Year[1]	Success Standard			
	Native Plant Cover (Percent)[2]	Non-native Plant Cover (Percent)[2]	Native Species Diversity (Count per area)[2.3]	Restored Physical Conditions (soil and rock)
Year 1	≥10% baseline condition data	≤80% baseline condition data	≥30% baseline condition data	Physical conditions restored and no significant erosion
Year 2	≥20% baseline condition data	≤70% baseline condition data	≥40% baseline condition data	Physical conditions restored and no significant erosion
Year 3	≥30% baseline condition	≤60% baseline condition data	≥50% baseline condition data	Physical conditions restored and no significant erosion
Year 4	≥50% baseline condition	≤55% baseline condition data	≥50% baseline condition data	Physical conditions restored and no significant erosion
Year 5[4]	≥70% pre-activity survey data	≤55% baseline condition data	≥50% baseline condition data	Physical conditions restored and no significant erosion

[1] NCCP requirements included option for 2-Year Program; success standard for Year 2 is achieving 70 percent of the native plant cover and 140% of the non-native cover relative to the reference (e.g., baseline condition).

[2] Success standard percentages are based on site-specific data collected in each work area prior to impact (e.g., baseline condition).

[3] Native species diversity is measured by the count of the number of native species (annual and perennial) detected in each restoration area during baseline conditions surveys and annual monitoring.

[4] If success standards are not met at the end of Year 5, additional maintenance and monitoring may be needed until standards are achieved. Similarly, if success standards are met ahead of schedule, the restoration areas may be released from further maintenance and monitoring.

- Provide temporary irrigation to some existing shrubs, transplants and/or container plants (not feasible on a large scale due to large Project acreage and remote site locations)

- Increase frequency and intensity of weed control

6.1 REPORTING

SDG&E will submit a Restoration Monitoring Report to the CPUC and USFS each year of the 5-year program. This report will include the following:

- introduction,
- maintenance and monitoring methods,
- maintenance activities conducted,
- monitoring results,
- a discussion of the restoration program's performance in relation to success standards, and
- a conclusion and recommendations for remedial measures.

6.2 COMPLETION OF RESTORATION PROGRAM

The restoration of the Project area will be considered complete when the monitoring period is over and the final success standards are met or impacts have been compensated in accordance with the mitigation requirements of MM BIO-5. SDG&E will notify the CPUC and USFS that the success standards have been met for the Project in the annual report for the final year.

7 – REFERENCES

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ATTACHMENT A: PROJECT COMPONENTS AND VEGETATION MAPPING

ATTACHMENT A-1: TL625B COMPONENTS AND VEGETATION MAPPING

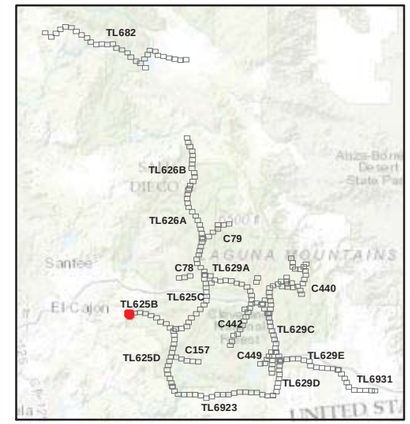
Attachment A-1:
TL625B
Components and Vegetation Mapping
Map 1 of 10

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Road
- Urban and Developed/Ornamental Landscaping



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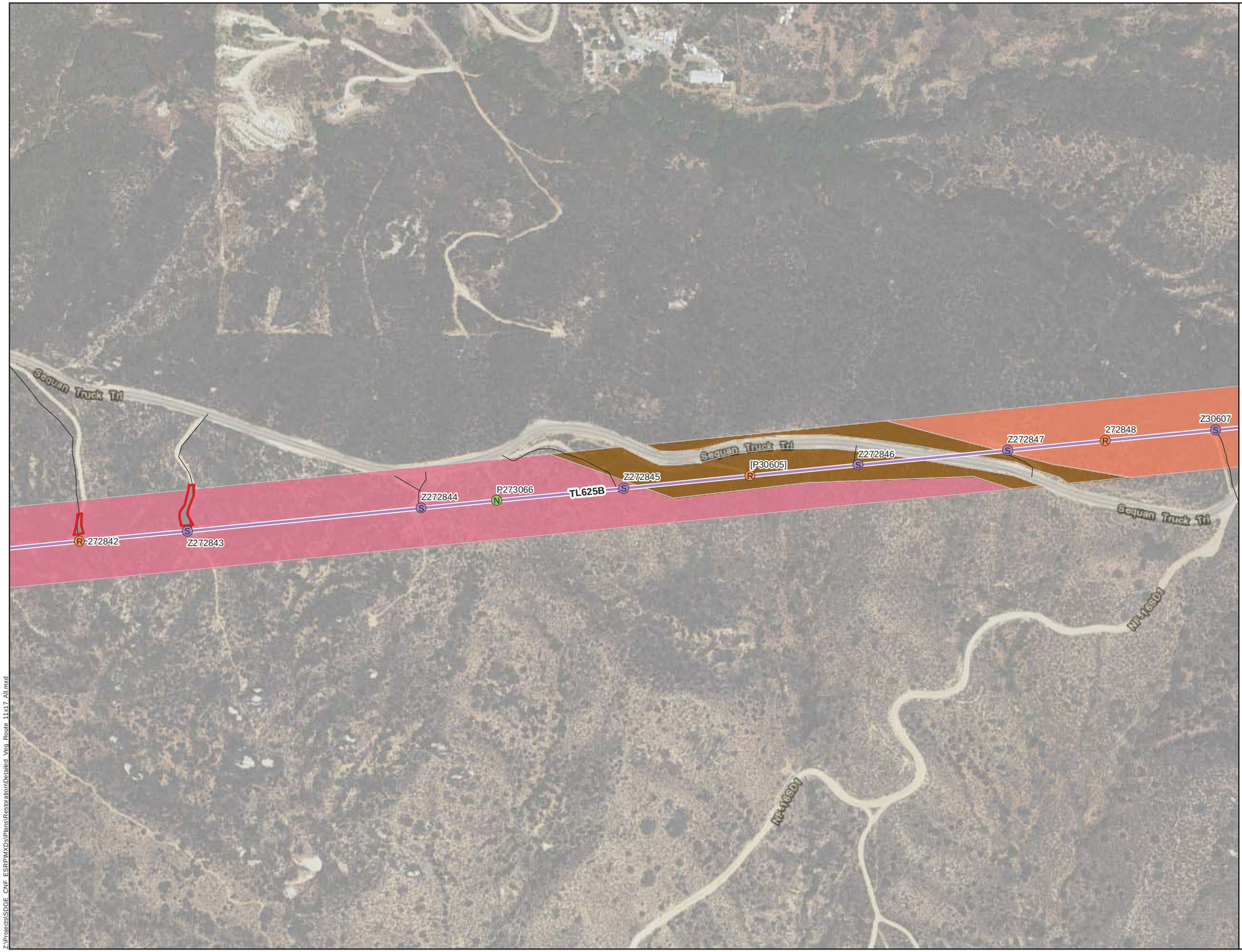
Attachment A-1:
TL625B
Components and Vegetation Mapping
Map 2 of 10

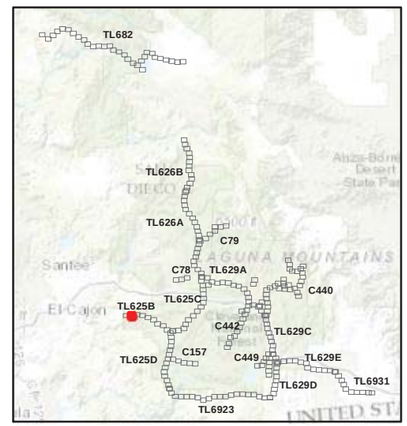
Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral





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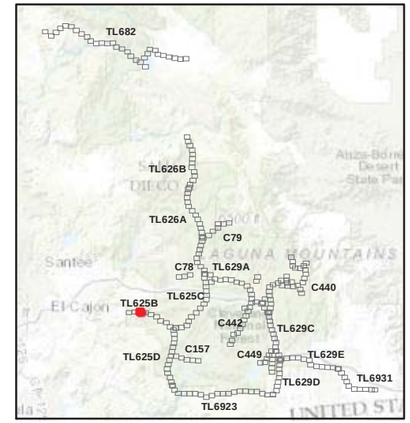
Attachment A-1:
TL625B
Components and Vegetation Mapping
Map 3 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral



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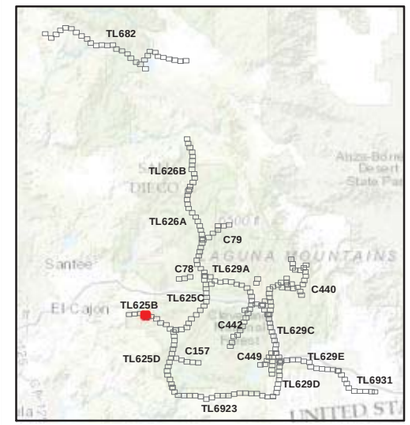
Attachment A-1:
TL625B
Components and Vegetation Mapping
Map 4 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Staging Area
Access Road

Vegetation

Diegan Coastal Sage Scrub
Freshwater Seep/Open Water
Mixed Oak Woodland
Native Grassland
Road
Southern Mixed Chaparral
Southern Riparian Forest



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Attachment A-1:
TL625B
Components and Vegetation Mapping
Map 5 of 10

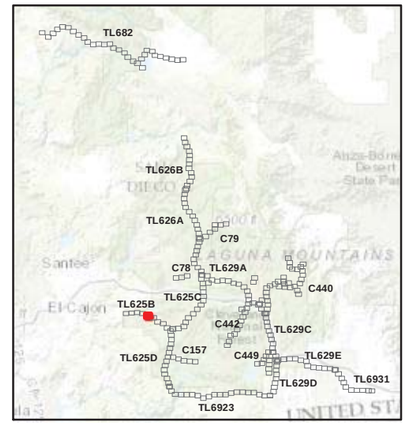
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Freshwater Seep/Open Water
- Mixed Oak Woodland
- Native Grassland
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest



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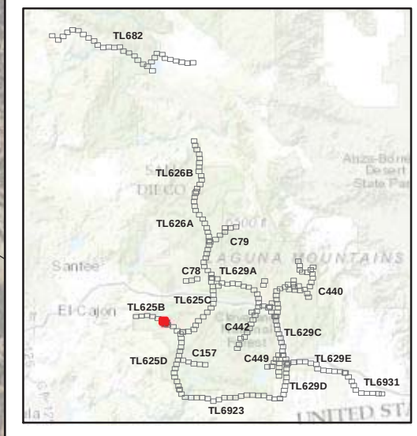
Attachment A-1:
TL625B
Components and Vegetation Mapping
Map 6 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Removal Pole
Wood-to-Steel Replacement
Stringing Site
Access Road

Vegetation

Chamise Chaparral
Disturbed (Ruderal/Barren)
Mixed Oak Woodland
Oak Savanna
Road
Southern Mixed Chaparral
Urban and Developed/Ornamental Landscaping



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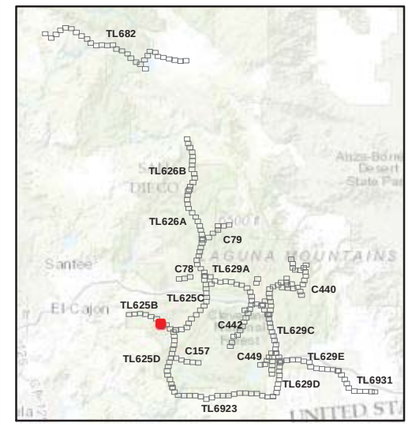
Attachment A-1:
TL625B
Components and Vegetation Mapping
Map 7 of 10

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Mixed Oak Woodland
- Oak Savanna
- Pastureland/Cultivated Agriculture
- Road
- Urban and Developed/Ornamental Landscaping



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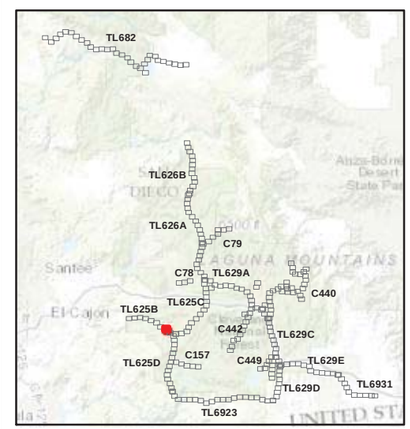
Attachment A-1:
TL625B
Components and Vegetation Mapping
Map 8 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Vegetation

- Chamise Chaparral
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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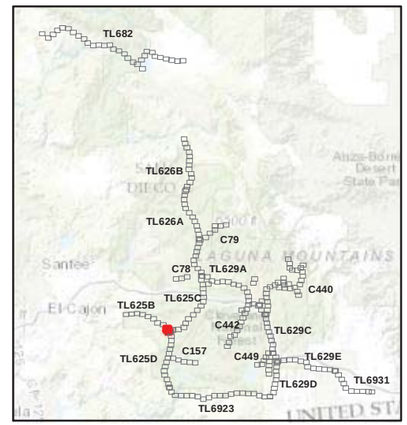
Attachment A-1:
TL625B
Components and Vegetation Mapping
Map 9 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging Area
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Oak Savanna
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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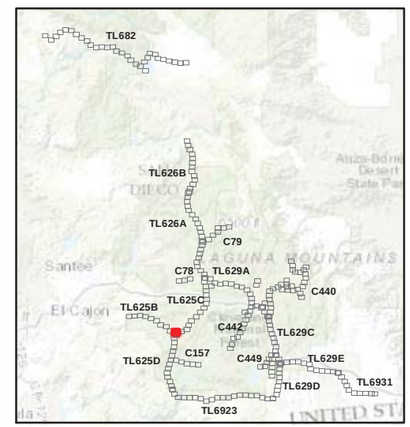
Attachment A-1:
TL625B
Components and Vegetation Mapping
Map 10 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging Area
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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ATTACHMENT A-2: TL629E COMPONENTS AND VEGETATION MAPPING

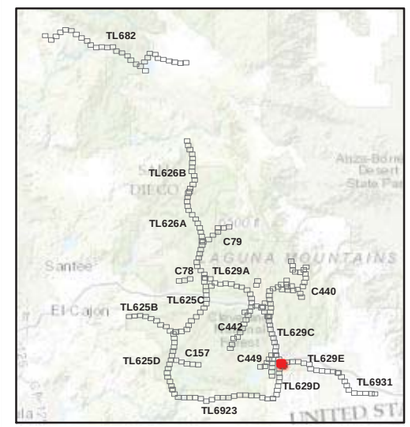
Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 1 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Fly Yard
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Non-Native Grassland
- Oak Savanna
- Pastureland/Cultivated Agriculture
- Semi-Desert Chaparral
- Southern Riparian Forest



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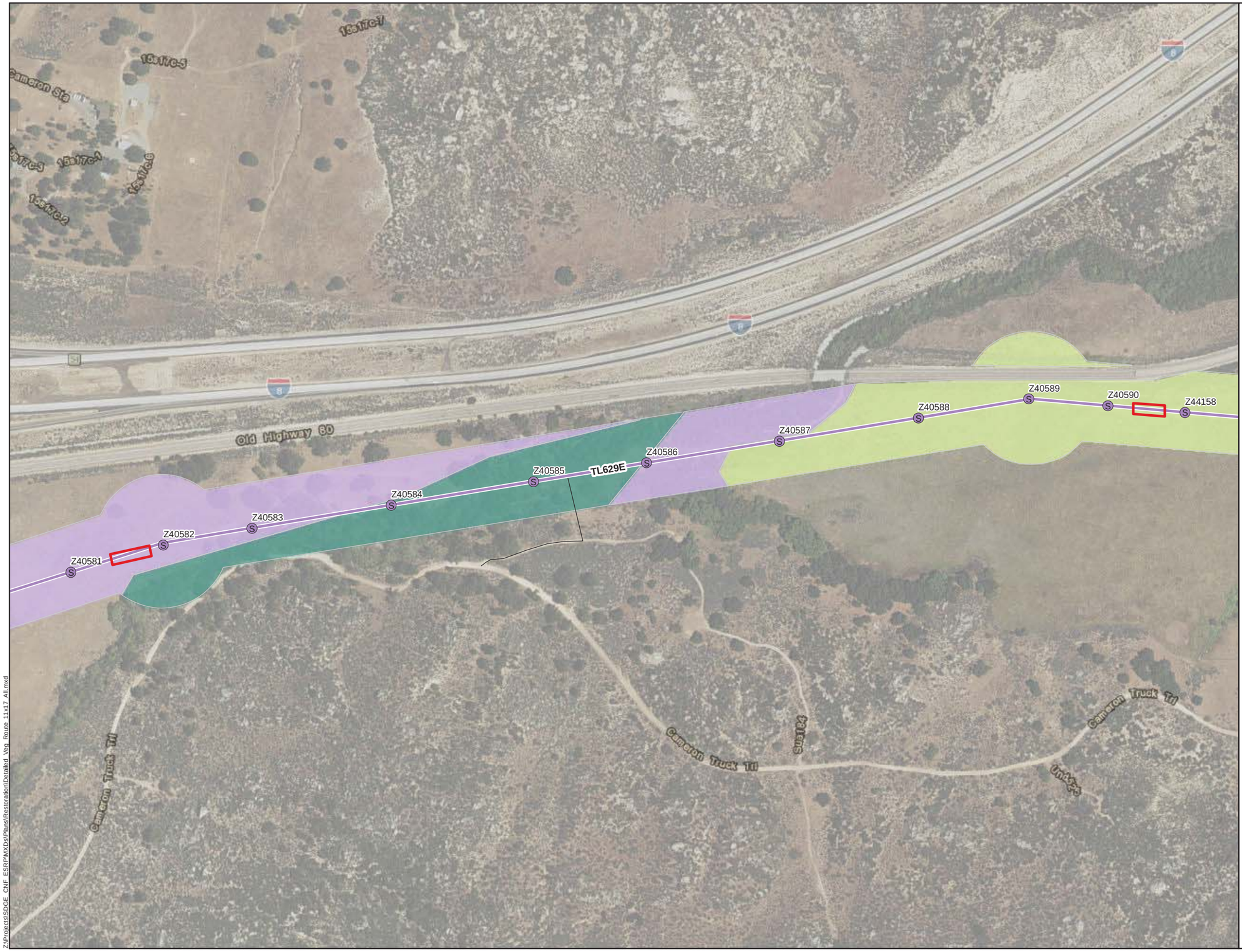
Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 2 of 12

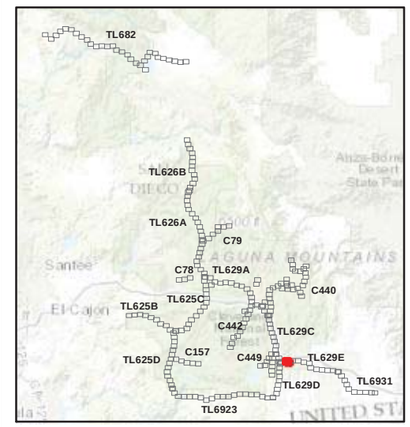
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Non-Native Grassland
- Oak Savanna
- Southern Riparian Forest





SDGE A Sempra Energy utility

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Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 3 of 12

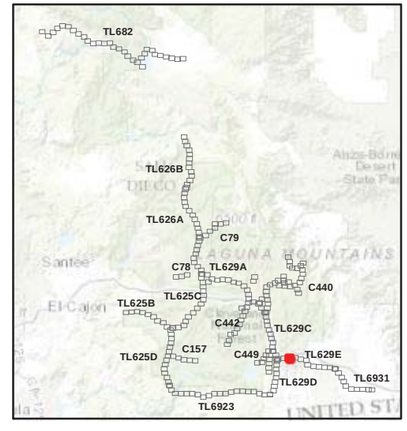
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Non-Native Grassland
- Semi-Desert Chaparral
- Urban and Developed/Ornamental Landscaping



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Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 4 of 12

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

Vegetation

Non-Native Grassland

Road

Semi-Desert Chaparral

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Z44167

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TL629E

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Z44173-74

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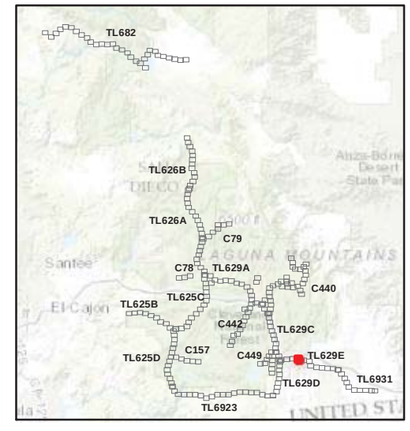

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Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 5 of 12

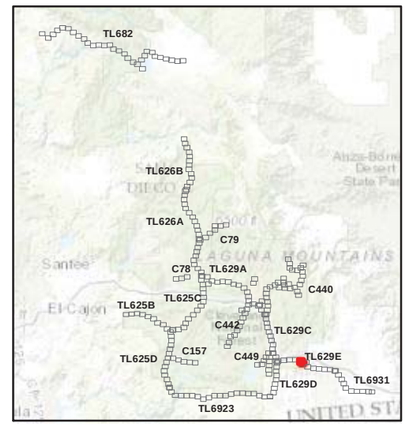
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Non-Native Grassland
- Road
- Semi-Desert Chaparral



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Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 6 of 12

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

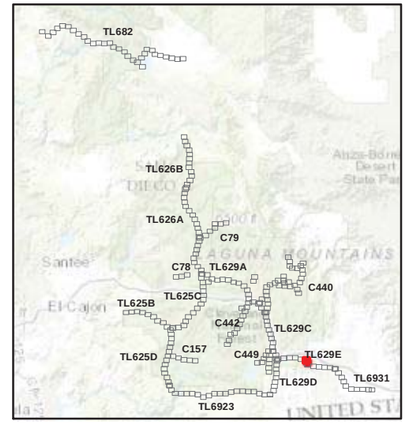
Vegetation

Disturbed (Ruderal/Barren)

Road

Semi-Desert Chaparral





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Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 7 of 12

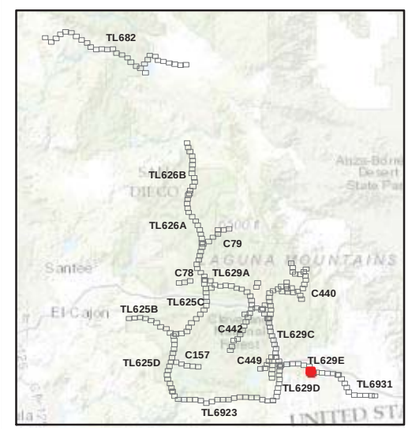
Cleveland National Forest
Power Line Replacement Projects

Z44190
Z44191
Z44192
Z44193
Z44194
TL629E
Z44195
Z44196
Z44197
Z44198
Z44199
Z44200

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Road
- Semi-Desert Chaparral



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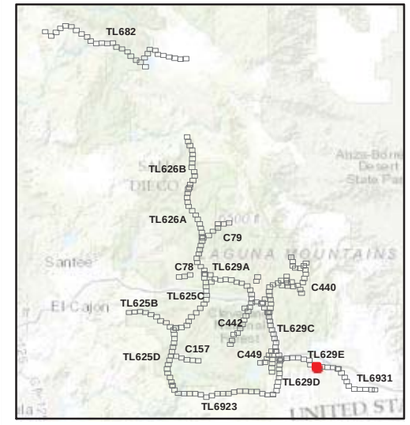
Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 8 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Road
- Semi-Desert Chaparral



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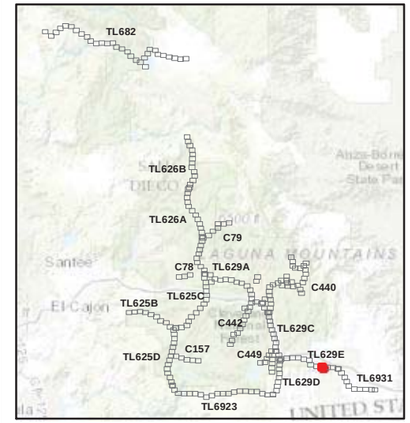
Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 9 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Freshwater Seep/Open Water
- Road
- Semi-Desert Chaparral



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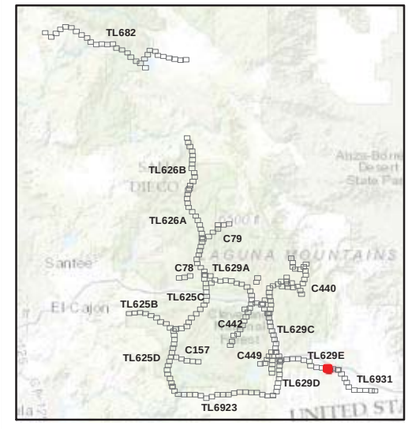
Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 10 of 12

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Road
- Semi-Desert Chaparral
- Urban and Developed/Ornamental Landscaping



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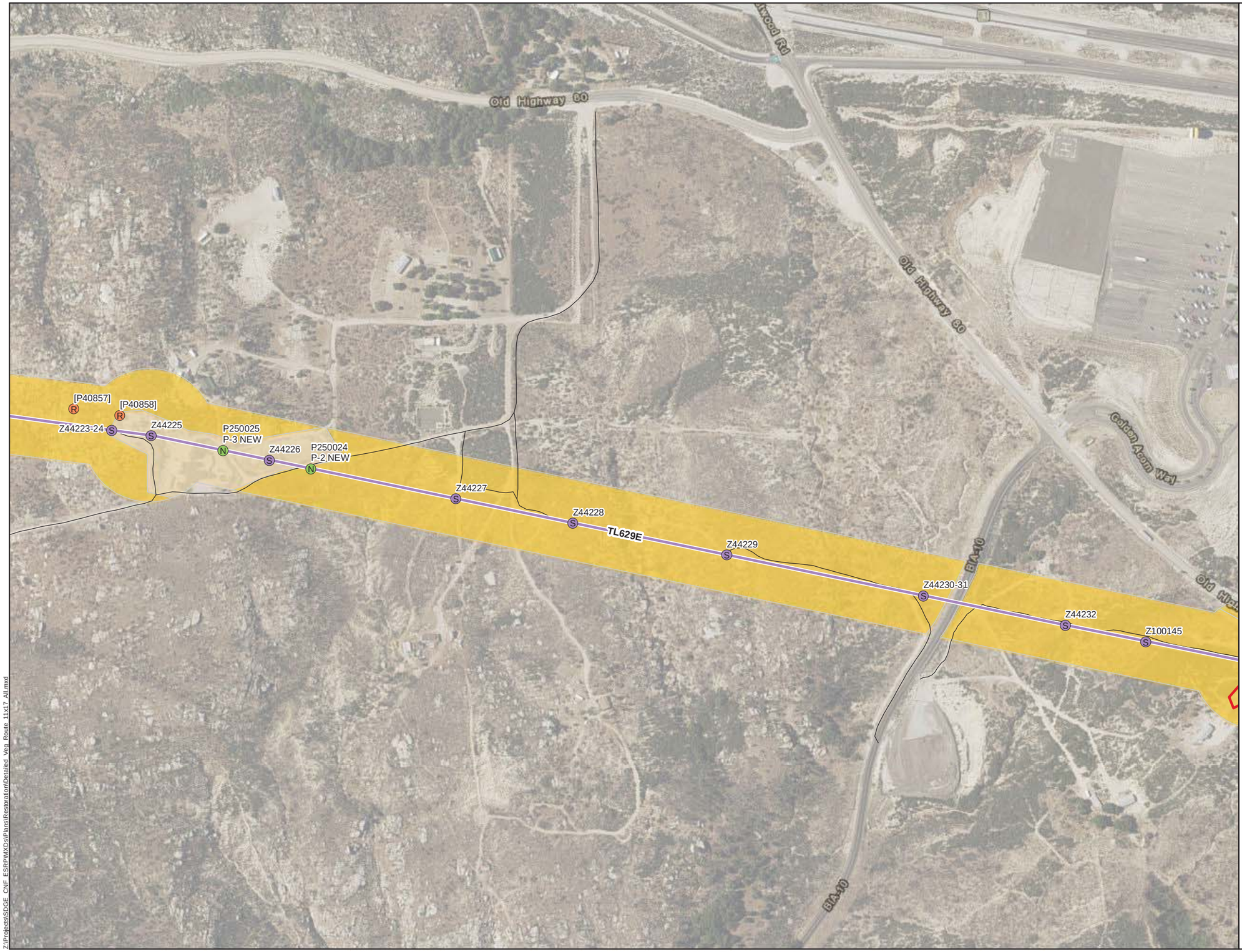
Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 11 of 12

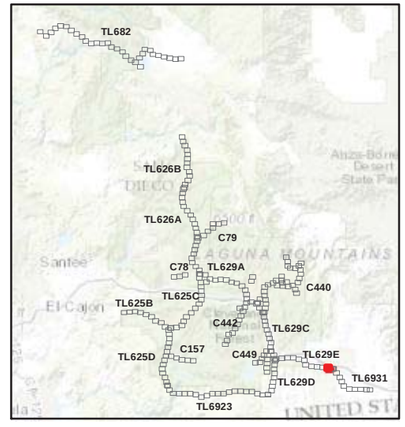
Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Semi-Desert Chaparral
- Urban and Developed/Ornamental Landscaping





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Attachment A-2:
TL629E
Components and Vegetation Mapping
Map 12 of 12

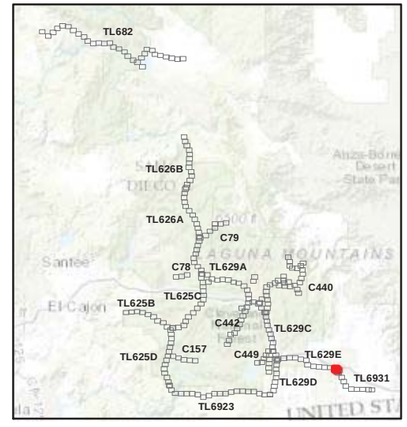
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Road
- Semi-Desert Chaparral
- Urban and Developed/Ornamental Landscaping



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ATTACHMENT A-3: C78 COMPONENTS AND VEGETATION MAPPING

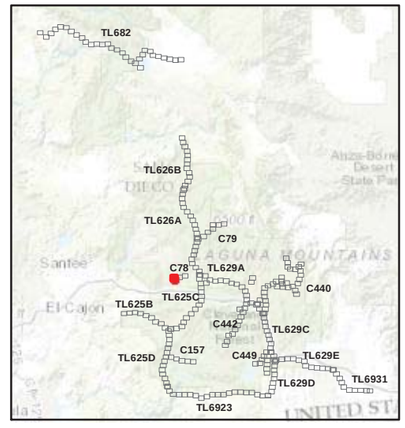
Attachment A-3:
C78
Components and Vegetation Mapping
Map 1 of 3

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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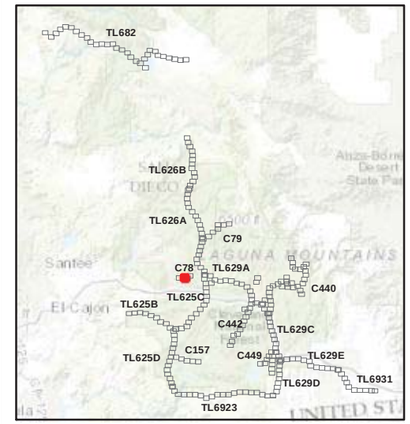
Attachment A-3:
C78
Components and Vegetation Mapping
Map 2 of 3

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Removal Pole
- New Steel
- Removal
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Native Grassland
- Southern Mixed Chaparral



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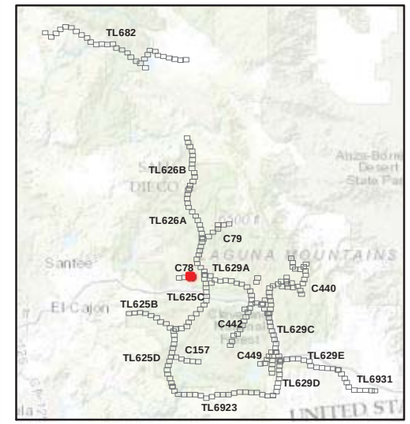
Attachment A-3:
C78
Components and Vegetation Mapping
Map 3 of 3

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Native Grassland
- Southern Mixed Chaparral



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ATTACHMENT A-4: TL682 COMPONENTS AND VEGETATION MAPPING



Attachment A-4:
TL682
Components and Vegetation Mapping
Map 1 of 31

Cleveland National Forest
Power Line Replacement Projects

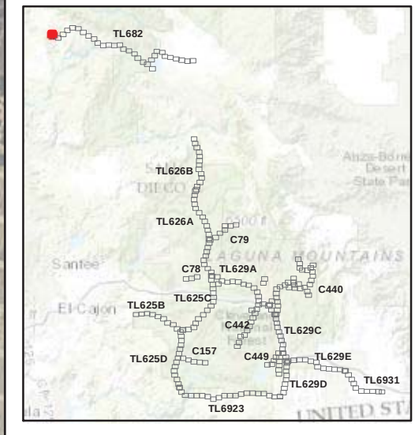
Staging Area

Access Road

Vegetation

Pastureland/Cultivated Agriculture

Urban and Developed/Ornamental Landscaping



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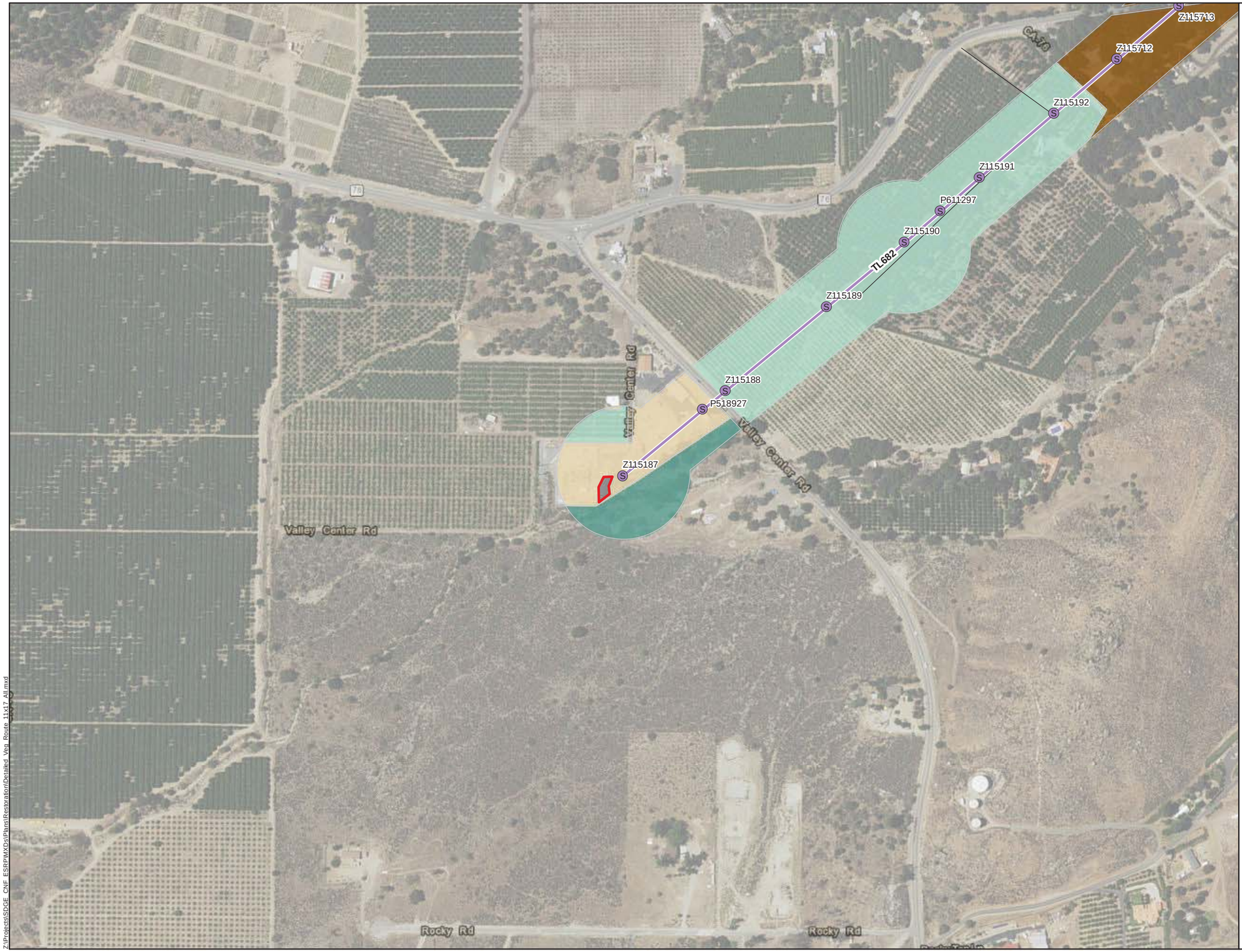
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 2 of 31

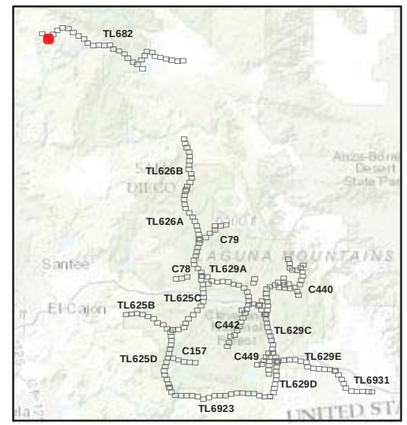
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Pastureland/Cultivated Agriculture
- Road
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 3 of 31

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

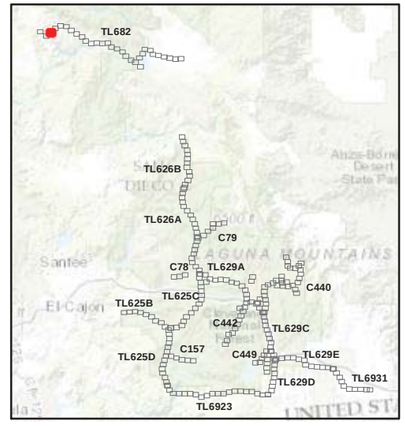
Access Road

Vegetation

Mixed Oak Woodland

Pastureland/Cultivated Agriculture

Urban and Developed/Ornamental Landscaping



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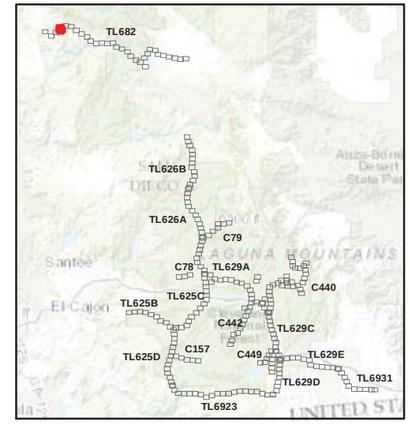
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 4 of 31

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Stringing Site
Access Road

Vegetation

Non-Native Grassland
Pastureland/Cultivated Agriculture
Road
Urban and Developed/Ornamental Landscaping



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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 5 of 31

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Access Road

Vegetation

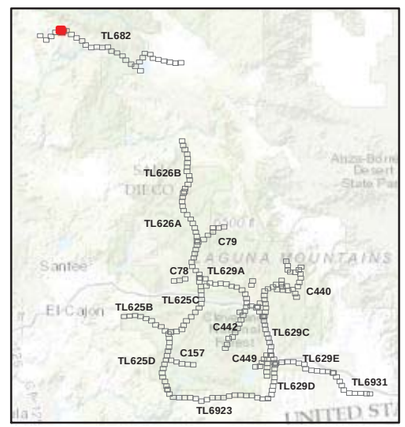
Non-Native Grassland

Pastureland/Cultivated Agriculture

Southern Mixed Chaparral

Southern Riparian Forest

Urban and Developed/Ornamental Landscaping



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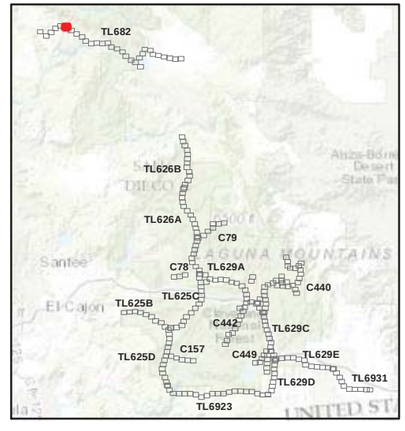
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 6 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Mixed Oak Woodland
- Pastureland/Cultivated Agriculture
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



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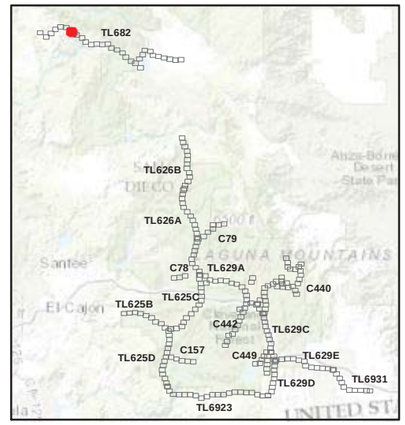
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 7 of 31

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Stringing Site
Access Road

Vegetation

Mixed Oak Woodland
Non-Native Grassland
Road
Urban and Developed/Ornamental Landscaping



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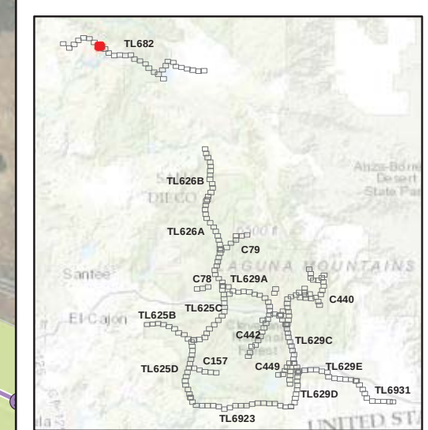
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 8 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Non-Native Grassland
- Road
- Urban and Developed/Ornamental Landscaping



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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 9 of 31

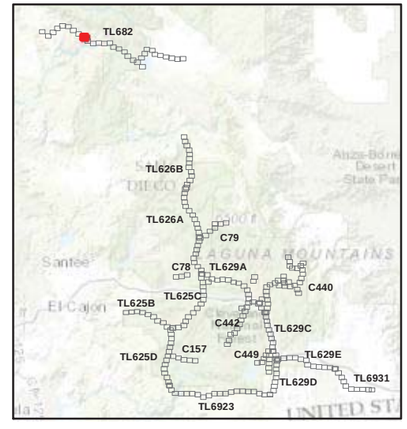
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Non-Native Grassland
- Road



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/17/2016

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 10 of 31

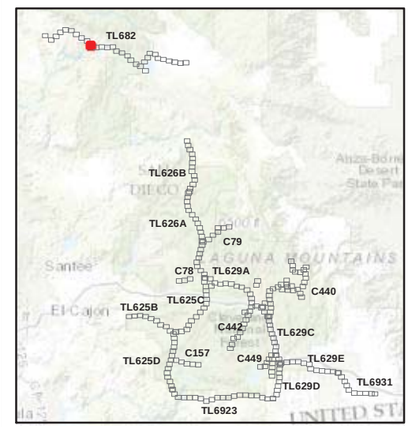
Cleveland National Forest
Power Line Replacement Projects

Z118061
Z118062
Z118063
Z118064
Z617763
Z118066
TL682
Z118067
Z118068
Z118069
Z118070
Z118071
Z118072
CA-79
S
R

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Non-Native Grassland
- Road
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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6/17/2016

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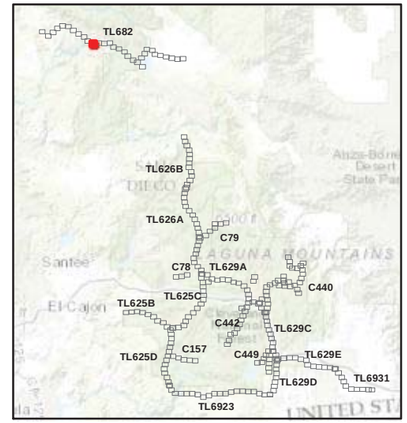
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 11 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 12 of 31

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

Vegetation

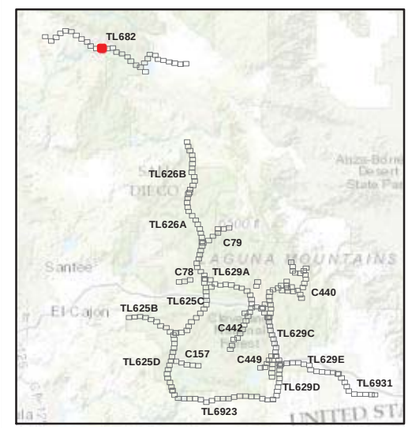
Diegan Coastal Sage Scrub

Mixed Oak Woodland

Road

Southern Riparian Forest

Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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6/17/2016

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 13 of 31

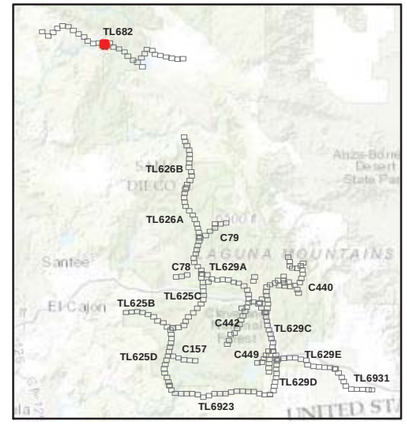
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Mixed Oak Woodland
- Road



SDGE A Sempra Energy utility

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6/17/2016

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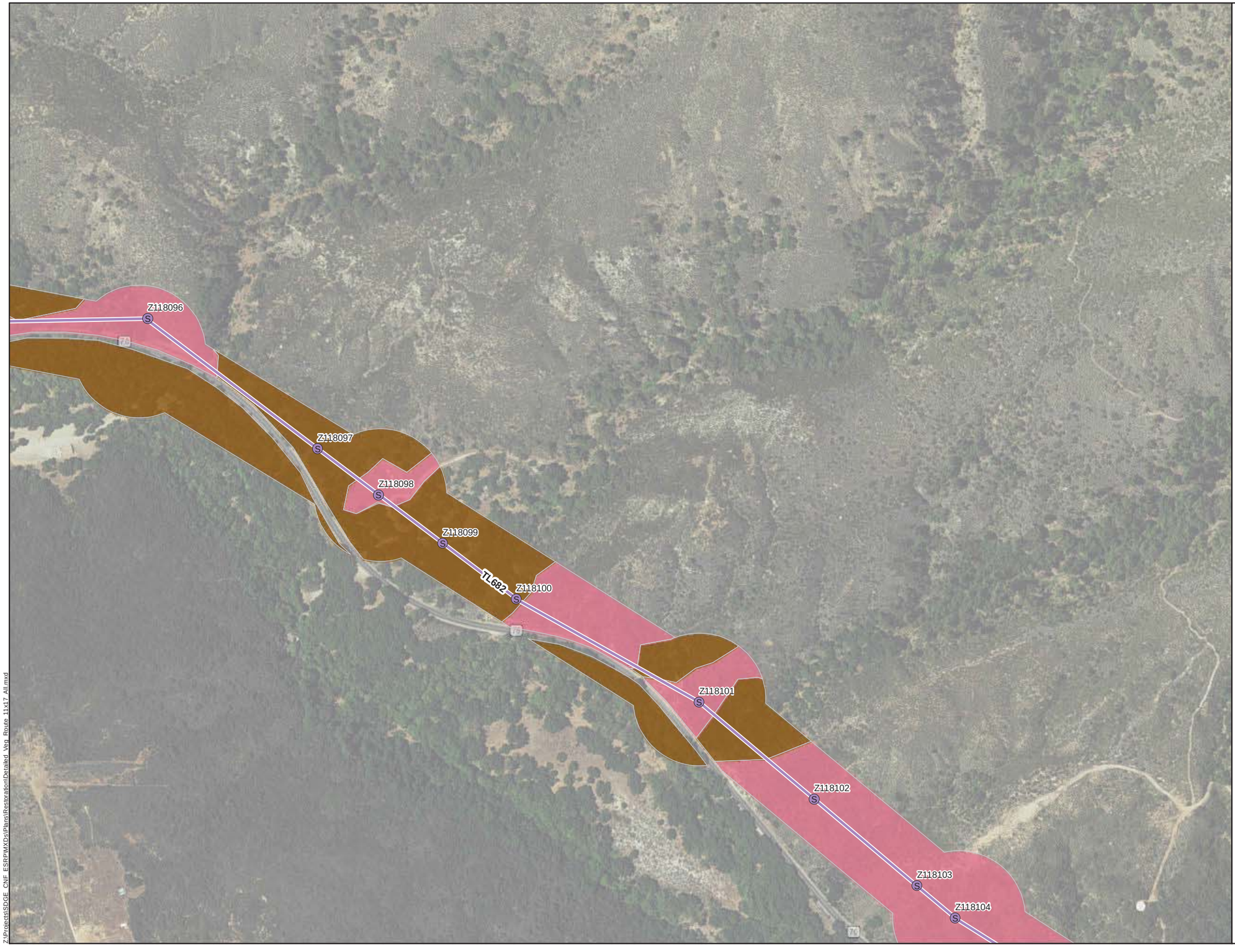
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 14 of 31

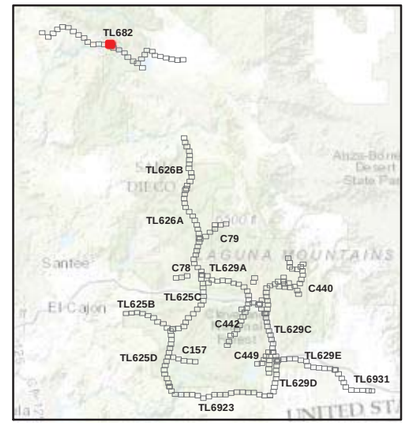
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Mixed Oak Woodland



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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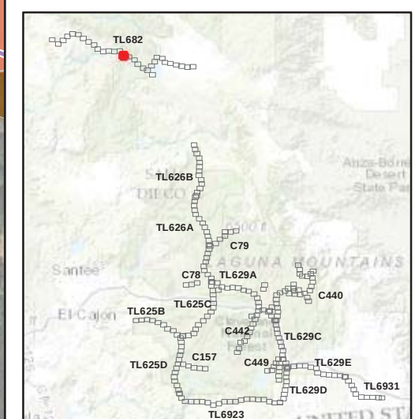
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 15 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Mixed Oak Woodland
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 16 of 31

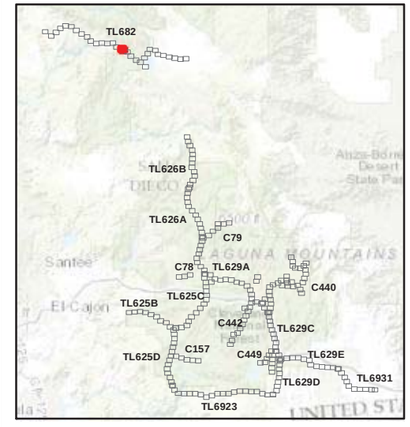
Cleveland National Forest
Power Line Replacement Projects

Z118110
Z118111
Z118112
Z118113
Z118114
Z118115
P317946
Z118116
TL682
Z118117
Z118118
Z118119
Z118120
Z118121
Z118122
Z202586

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard
- Access Road

Vegetation

- Mixed Oak Woodland
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility
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0 200 400 Feet

6/17/2016

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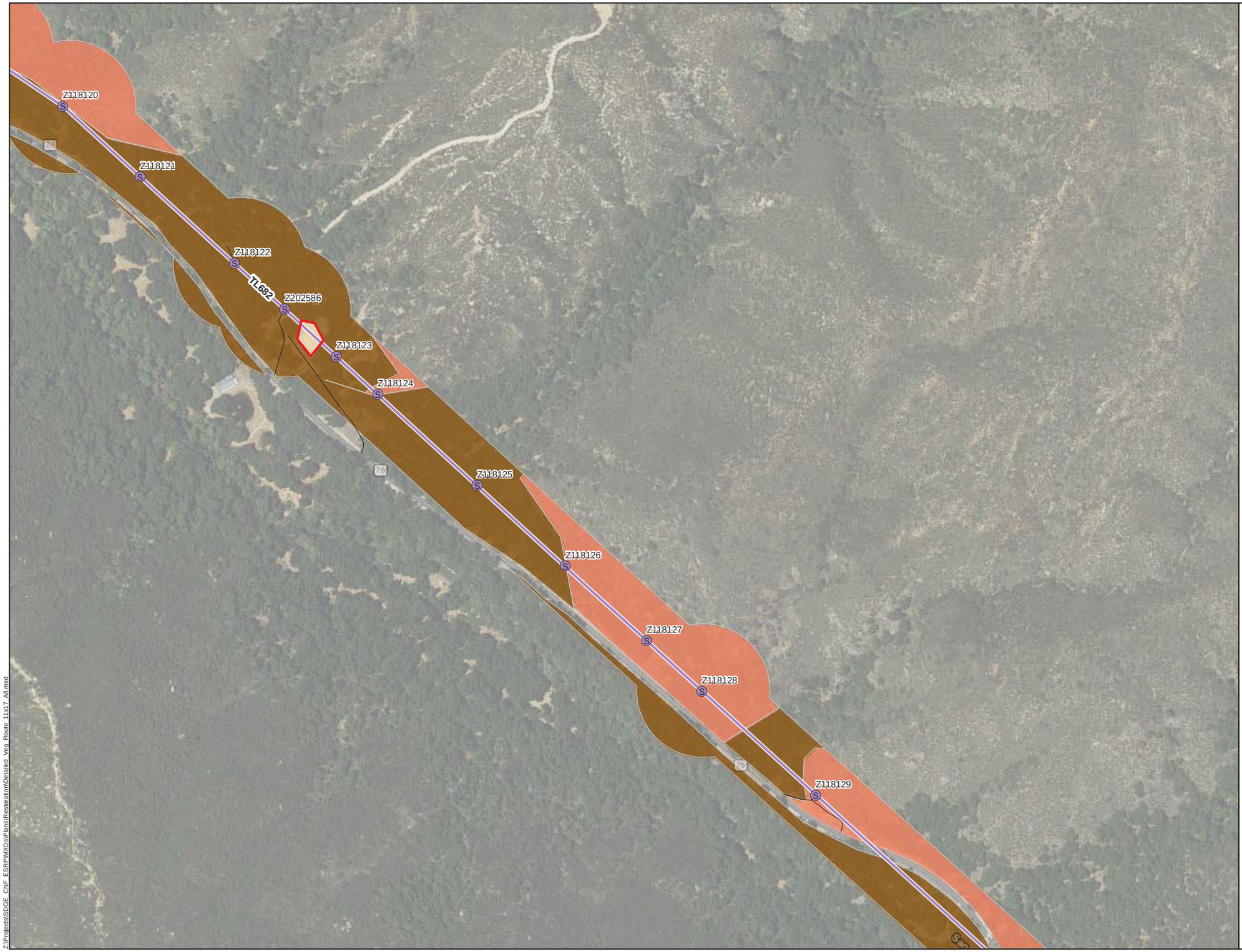
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 17 of 31

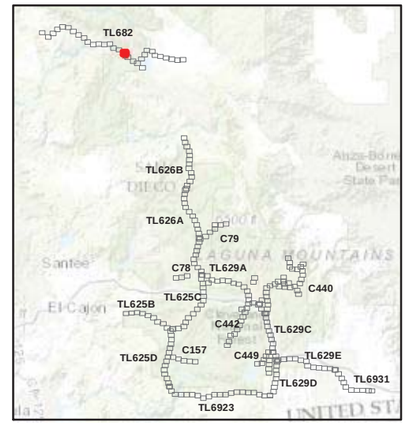
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 18 of 31

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

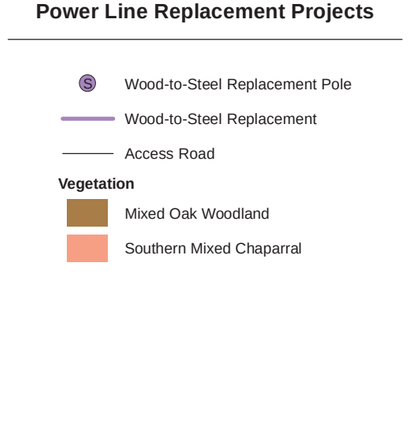
Wood-to-Steel Replacement

Access Road

Vegetation

Mixed Oak Woodland

Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 19 of 31

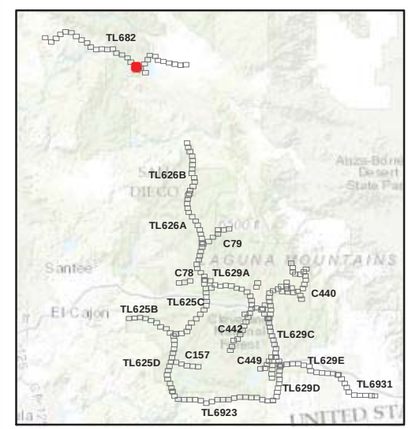
Cleveland National Forest
Power Line Replacement Projects

Z118135
Z118136
Z118137
Z118138
Z118139
Z118140
Z118141
Z118142
TL682
Z118143
Z118144
Z118145
Z118146
Z118147
Z118148

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Mixed Oak Woodland
- Southern Mixed Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/17/2016

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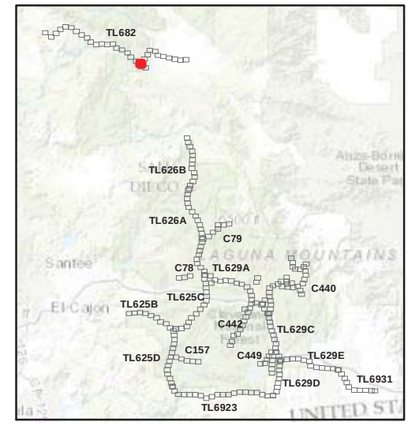
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 20 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 21 of 31

Cleveland National Forest
Power Line Replacement Projects

Staging Area

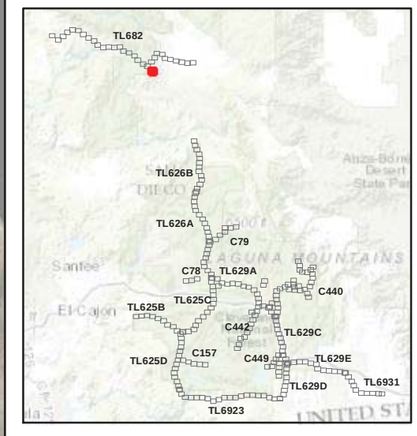
Access Road

Vegetation

Disturbed (Ruderal/Barren)

Non-Native Grassland

Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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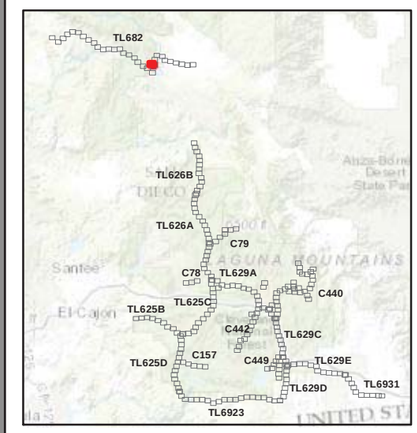
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 22 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Road
- Southern Mixed Chaparral
- Southern Riparian Forest



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 23 of 31

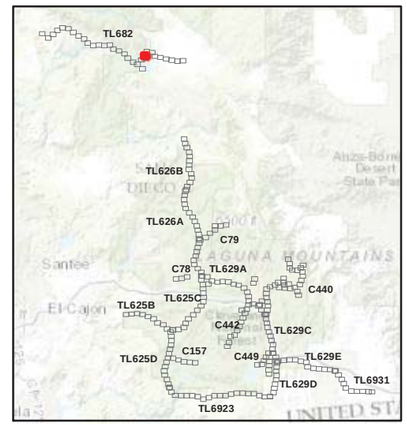
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Oak Savanna
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 24 of 31

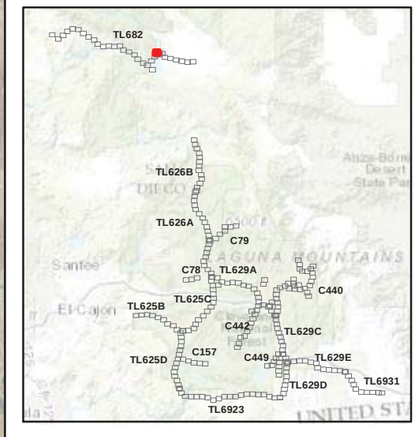
Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Stringing Site
Access Road

Vegetation

Non-Native Grassland
Road
Southern Mixed Chaparral

Z118179
Z118180
Z118178
Z118181
Z118177
Z118182
Z118176
Z118175
Z118174
Z118173
TL682
Henshaw Rd



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 25 of 31

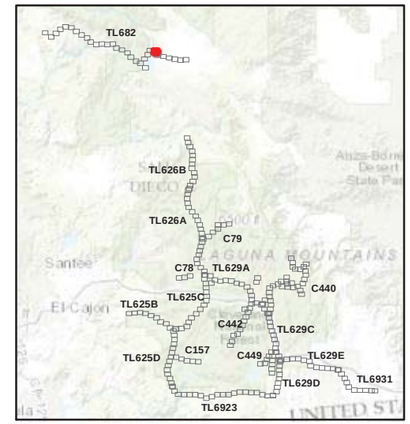
Cleveland National Forest
Power Line Replacement Projects

Z118181
Z118182
Z118183
Z118184
Z118185
Z118186
Z118187
Z118188
Z118189
TL682

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Non-Native Grassland
- Southern Mixed Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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Z118187
Z118188
Z118189
Z118190
Z118191
Z118192
TL682
Z118193
Z118194
Z118195
Z118196
Z118197
Z118198

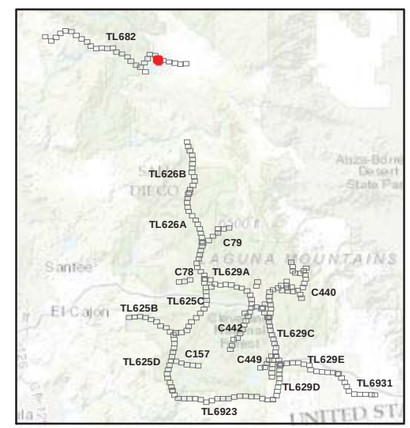
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 26 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Non-Native Grassland



SDGE Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 27 of 31

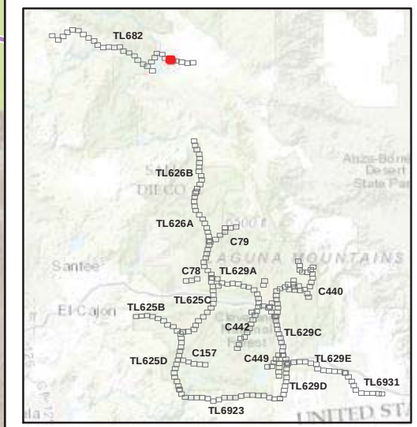
Cleveland National Forest
Power Line Replacement Projects

Z118197
Z118198
Z118199
Z118200
Z118201
TL682
Z118202
Z118203
Z118204
Z118205
Z118206
Z118207

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Non-Native Grassland



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 28 of 31

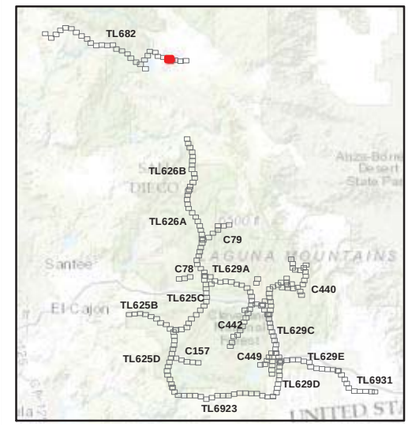
Cleveland National Forest
Power Line Replacement Projects

Z118206
Z118207
Z118208
Z118209
Z118210
Z118211
TL682
Z118212
Z118213
Z118214
Z210985
Z118215
Z118216

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Non-Native Grassland
- Southern Riparian Forest



SDGE a Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 29 of 31

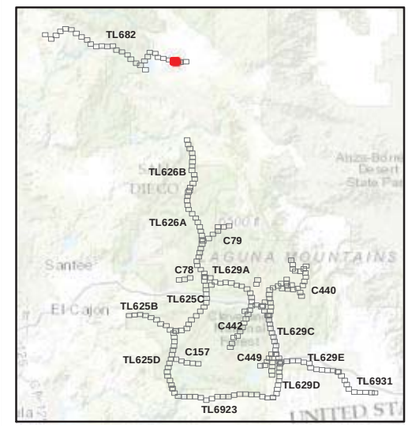
Cleveland National Forest
Power Line Replacement Projects

Z210985
Z118215
Z118216
Z118217
Z118218
Z118219
TL682
Z118220
Z118221
Z118222
Z118223
Z118224
Z118225
Z118226

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Non-Native Grassland



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-4:
TL682
Components and Vegetation Mapping
Map 30 of 31

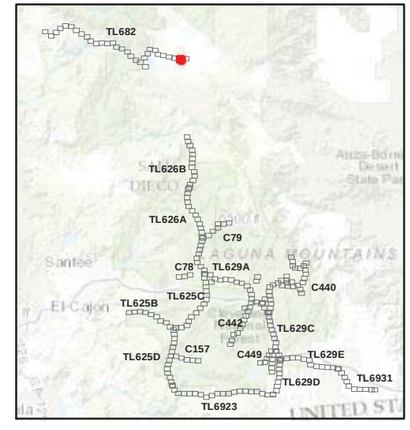
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Non-Native Grassland
- Southern Riparian Forest



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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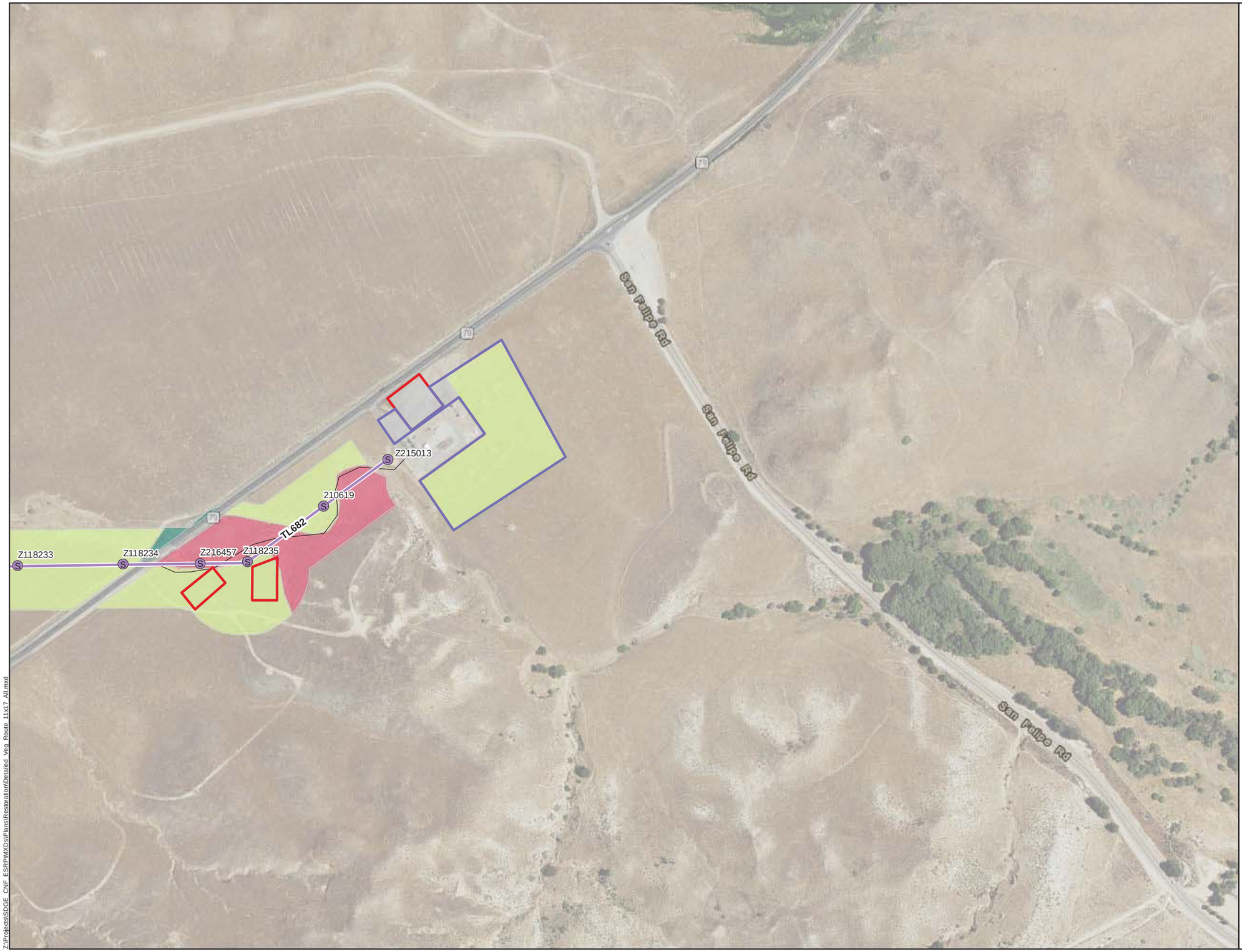
Attachment A-4:
TL682
Components and Vegetation Mapping
Map 31 of 31

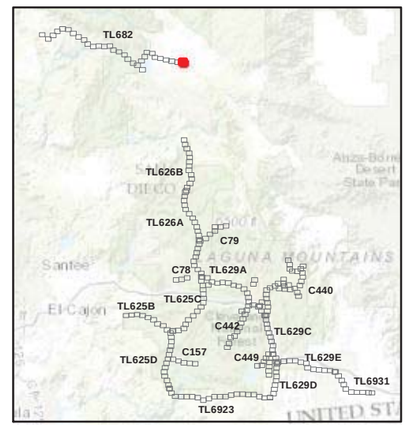
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging Area
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Non-Native Grassland
- Southern Riparian Forest



SDGE A Sempra Energy utility

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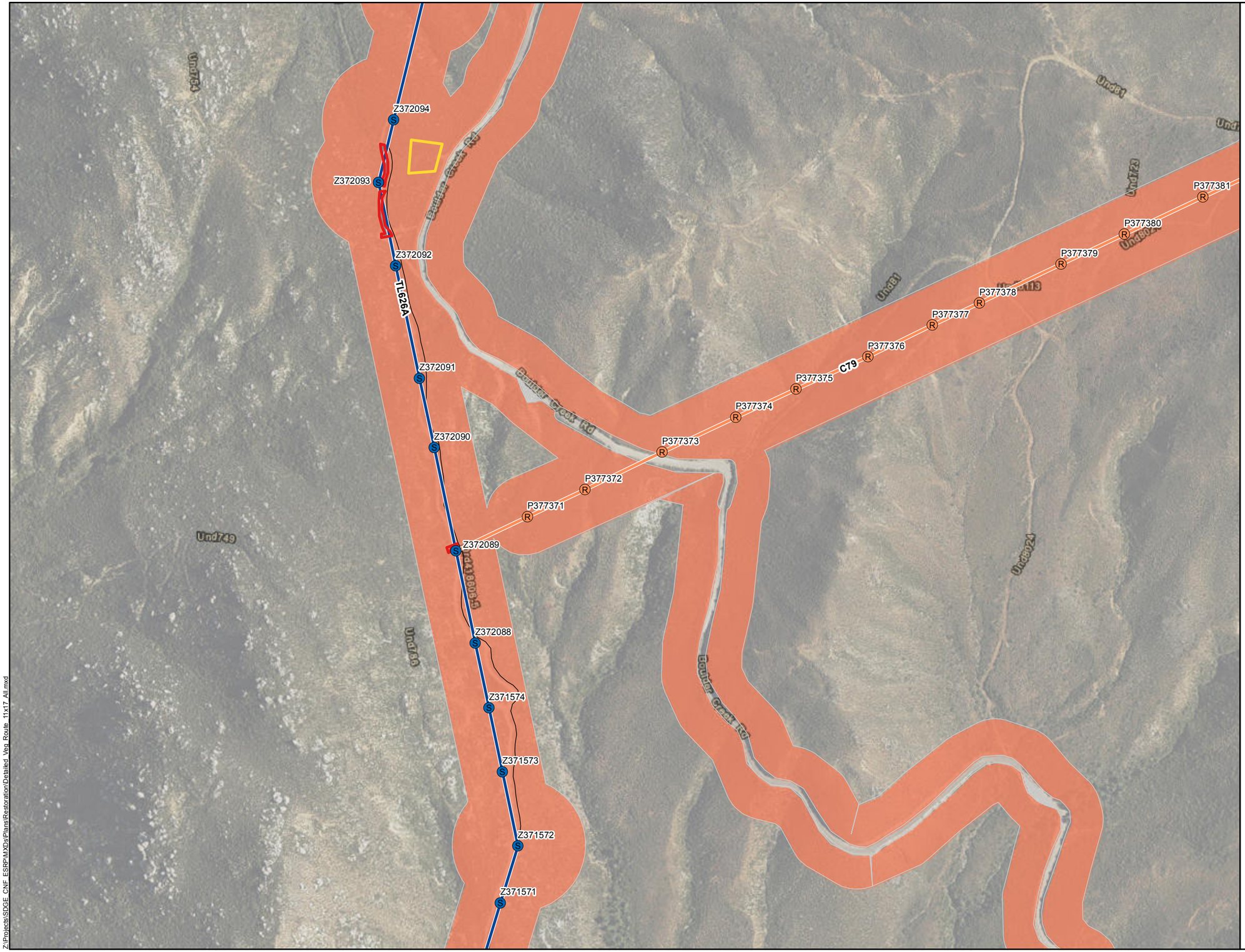
ATTACHMENT A-5: C79 COMPONENTS AND VEGETATION MAPPING

Attachment A-5:
C79
Components and Vegetation Mapping
Map 1 of 7

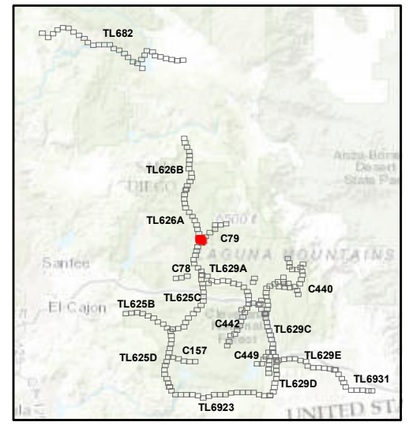
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel 12 kV Pole
- Removal Pole
- Removal
- Wood-to-Steel 12 kV
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Road
- Southern Mixed Chaparral



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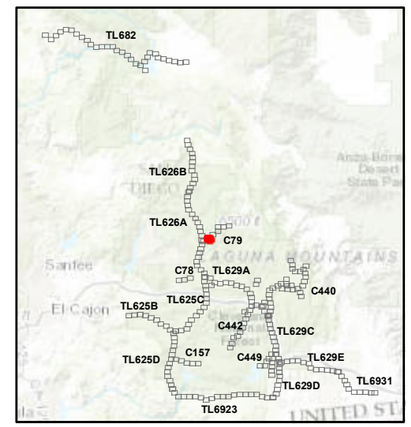
Attachment A-5:
C79
Components and Vegetation Mapping
Map 2 of 7

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Vegetation

- Southern Mixed Chaparral



SDGE A Sempra Energy utility

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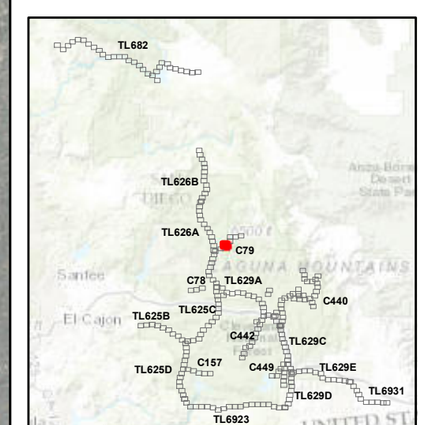
Attachment A-5:
C79
Components and Vegetation Mapping
Map 3 of 7

Cleveland National Forest
Power Line Replacement Projects

Removal Pole
Removal
Fly Yard and Staging Area
Access Road

Vegetation

Disturbed (Ruderal/Barren)
Southern Mixed Chaparral



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Attachment A-5:
C79
Components and Vegetation Mapping
Map 4 of 7

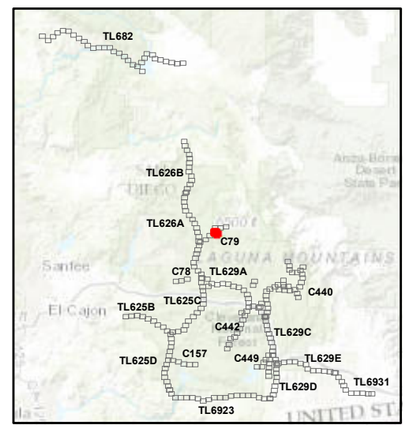
Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Fly Yard and Staging Area
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping





SDGE A Sempra Energy utility

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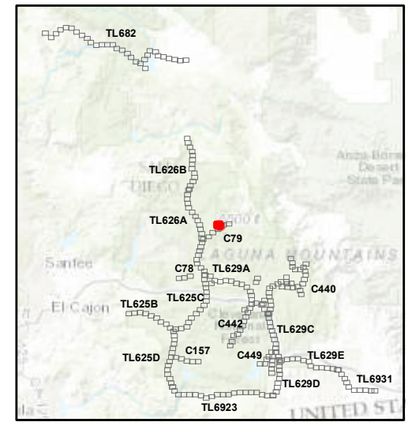
Attachment A-5:
C79
Components and Vegetation Mapping
Map 5 of 7

Cleveland National Forest
Power Line Replacement Projects

- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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Attachment A-5:
C79
Components and Vegetation Mapping
Map 6 of 7

Cleveland National Forest
Power Line Replacement Projects

Undergrounding

Staging Area

Stringing Site

Access Road

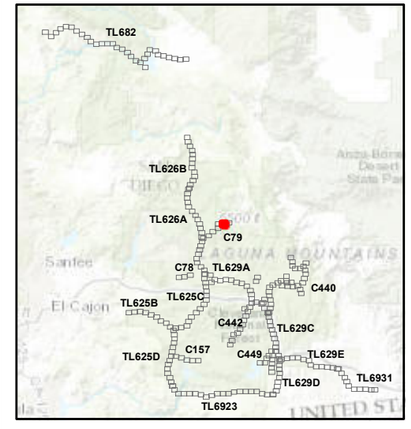
Vegetation

Disturbed (Ruderal/Barren)

Montane Forest

Southern Mixed Chaparral

Urban and Developed/Ornamental Landscaping



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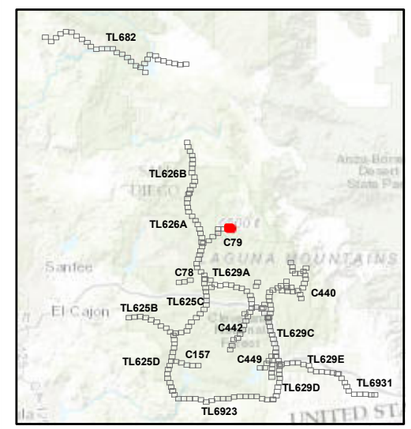
Attachment A-5:
C79
Components and Vegetation Mapping
Map 7 of 7

Cleveland National Forest
Power Line Replacement Projects

- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Southern Mixed Chaparral



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ATTACHMENT A-6: TL6931 COMPONENTS AND VEGETATION MAPPING

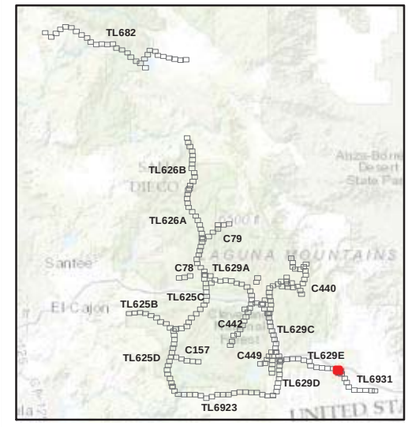
Attachment A-6:
TL6931
Components and Vegetation Mapping
Map 1 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Undergrounding
Wood-to-Steel Replacement
Stringing Site
Access Road

Vegetation

Disturbed (Ruderal/Barren)
Road
Semi-Desert Chaparral
Urban and Developed/Ornamental Landscaping



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Attachment A-6:
TL6931
Components and Vegetation Mapping
Map 2 of 10

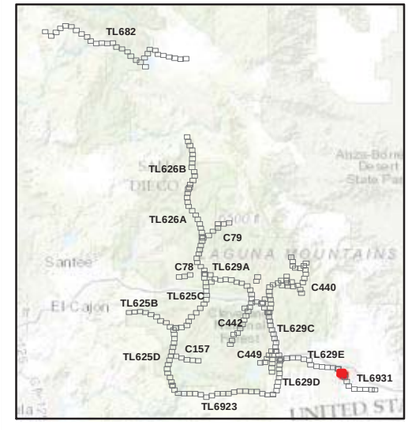
Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Oak Savanna
- Semi-Desert Chaparral



SDGE A Sempra Energy utility

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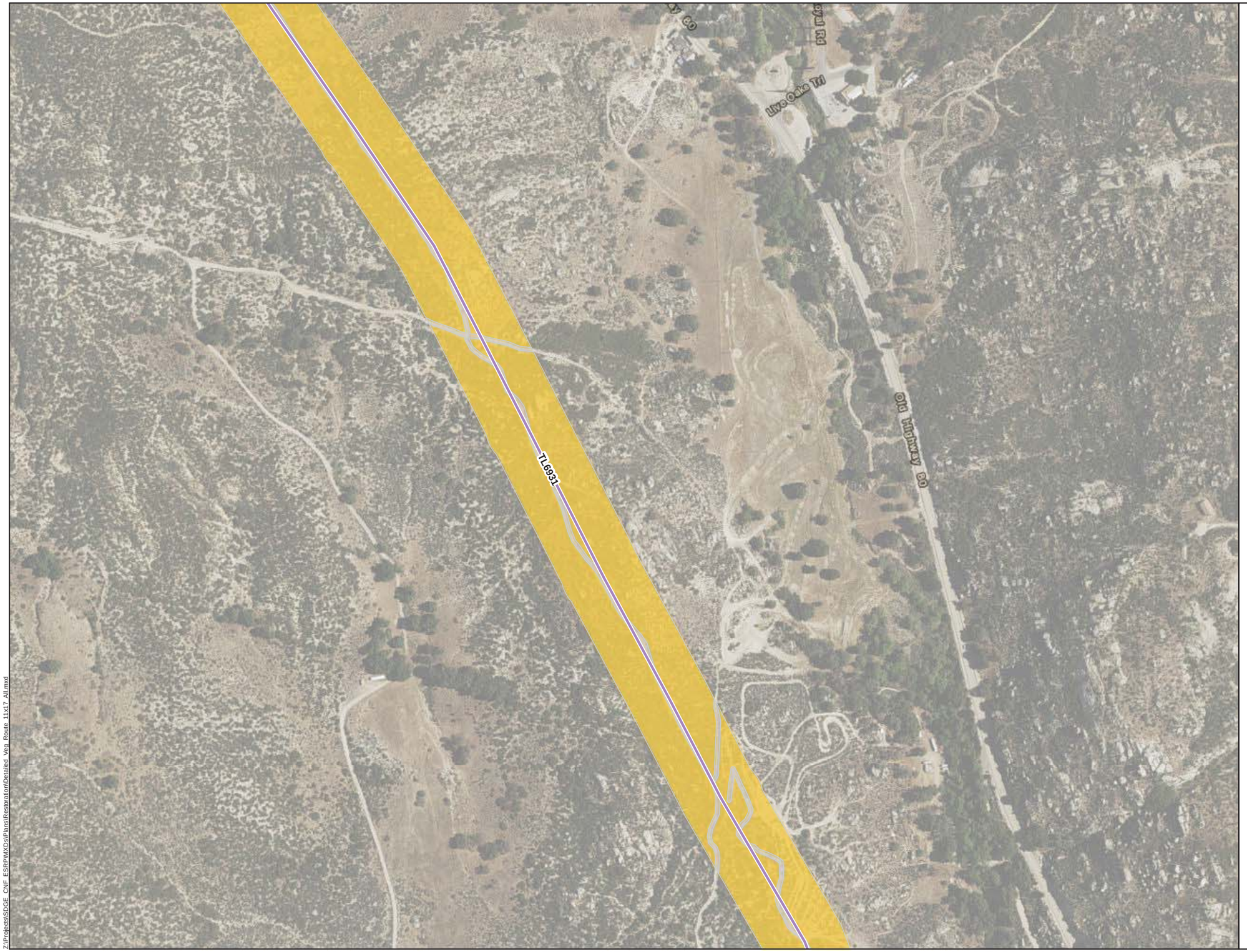


Attachment A-6:
TL6931
Components and Vegetation Mapping
Map 3 of 10

Cleveland National Forest
Power Line Replacement Projects

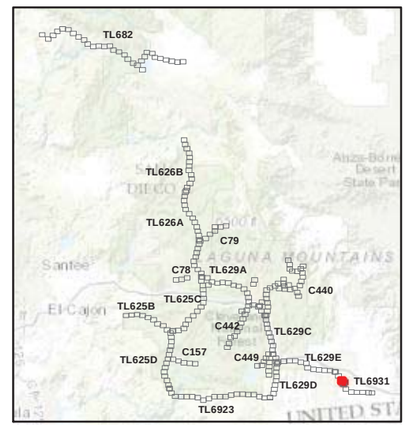
Wood-to-Steel Replacement

Access Road

Vegetation

Disturbed (Ruderal/Barren)

Semi-Desert Chaparral



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Attachment A-6:
TL6931
Components and Vegetation Mapping
Map 4 of 10

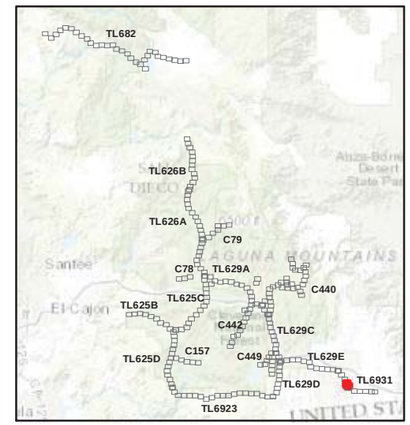
Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Southern Riparian Forest



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Attachment A-6:
TL6931
Components and Vegetation Mapping
Map 5 of 10

Cleveland National Forest
Power Line Replacement Projects

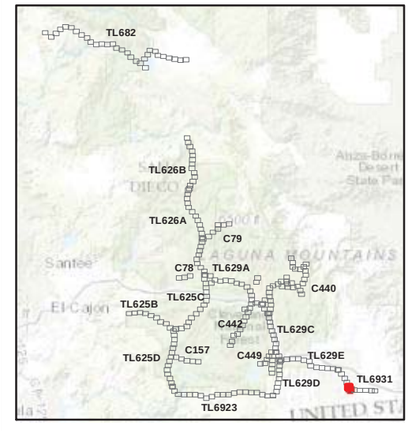
TL6931

Wood-to-Steel Replacement

Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Oak Savanna
- Semi-Desert Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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Attachment A-6:
TL6931
Components and Vegetation Mapping
Map 6 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

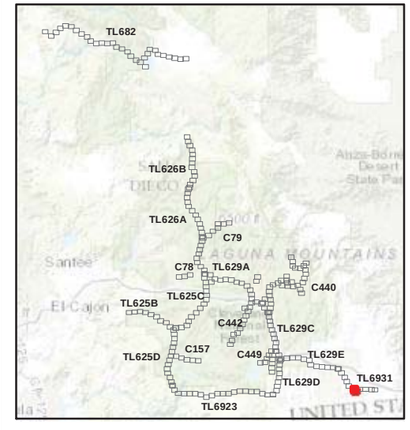
Access Road

Vegetation

Disturbed (Ruderal/Barren)

Semi-Desert Chaparral

Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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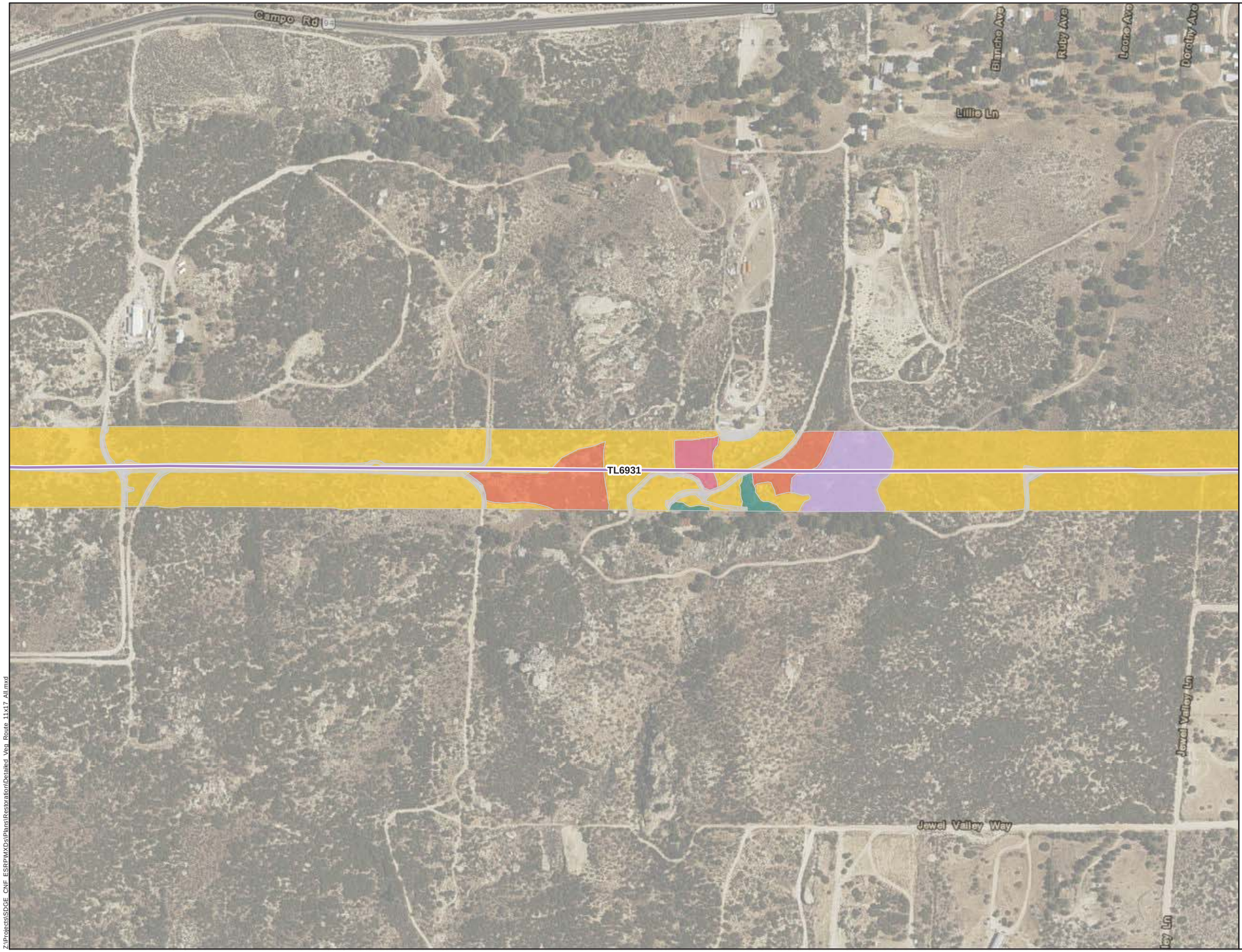


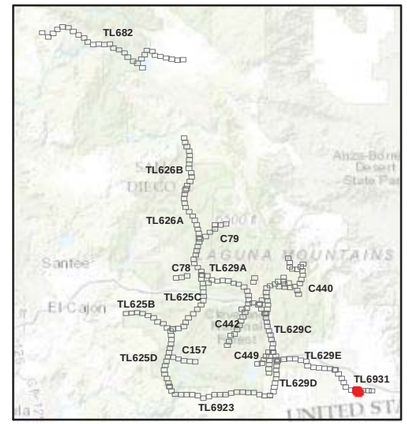
Attachment A-6:
TL6931
Components and Vegetation Mapping
Map 7 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Oak Savanna
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Southern Riparian Forest



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Attachment A-6:
TL6931
Components and Vegetation Mapping
Map 8 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

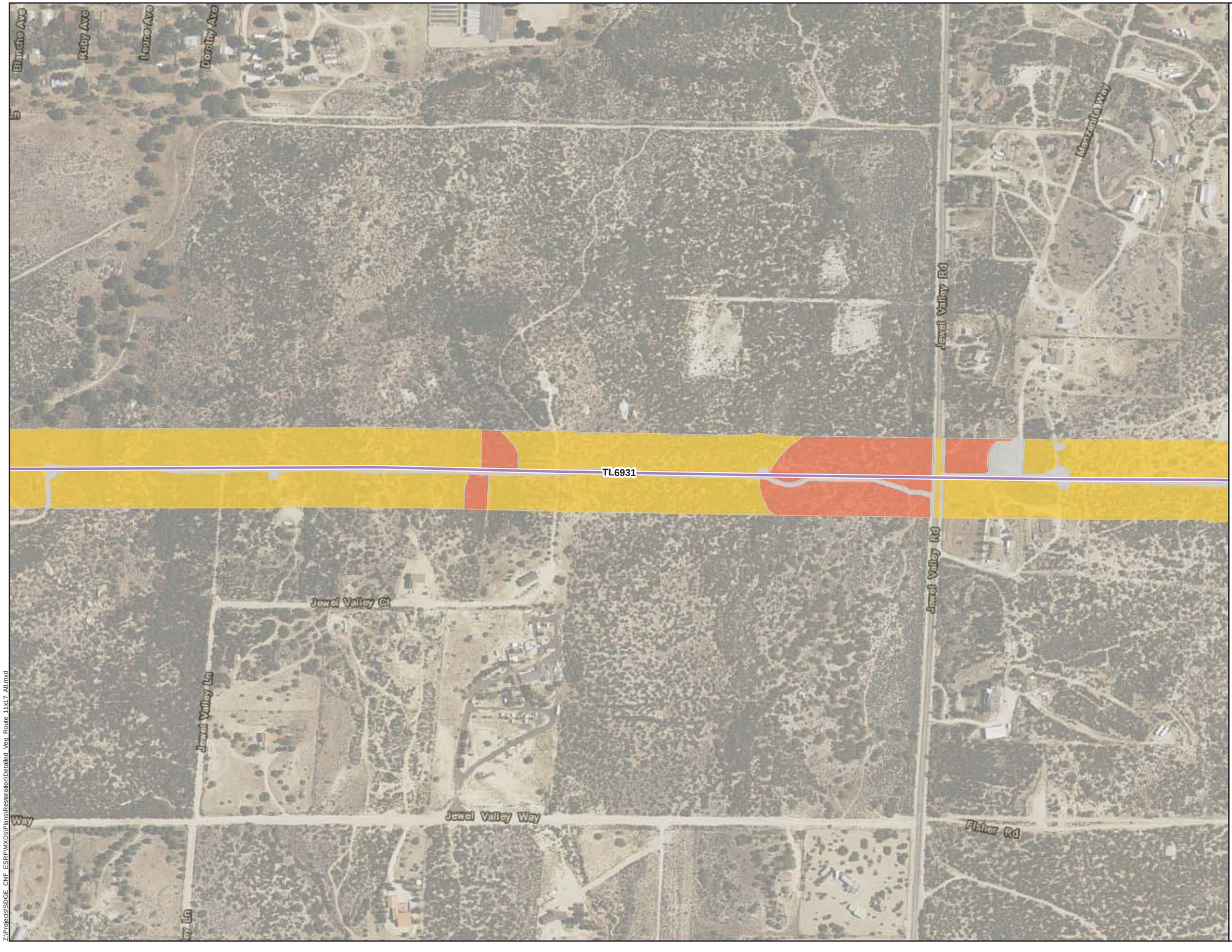
Access Road

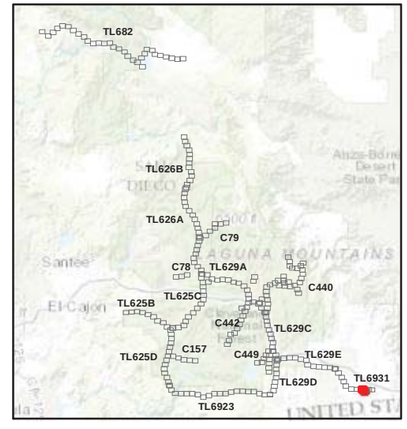
Vegetation

Disturbed (Ruderal/Barren)

Semi-Desert Chaparral

Southern Mixed Chaparral





SDGE a Sempra Energy utility

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Attachment A-6:
TL6931
Components and Vegetation Mapping
Map 9 of 10

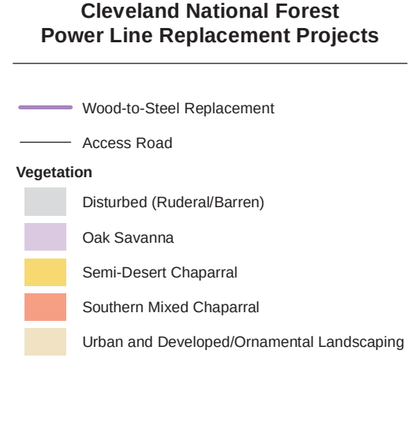
Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Oak Savanna
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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Attachment A-6:
TL6931
Components and Vegetation Mapping
Map 10 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

Access Road

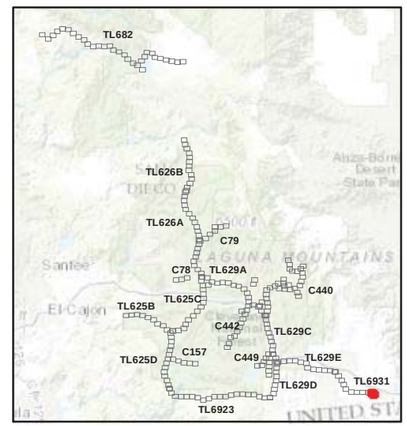
Vegetation

Disturbed (Ruderal/Barren)

Oak Savanna

Semi-Desert Chaparral

Urban and Developed/Ornamental Landscaping



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ATTACHMENT A-7: C157 COMPONENTS AND VEGETATION MAPPING

Attachment A-7:
C157
Components and Vegetation Mapping
Map 1 of 5

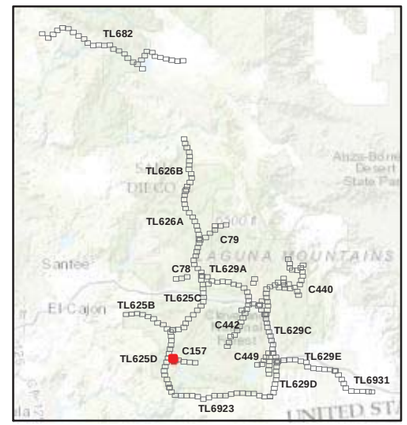
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging Area
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Freshwater Seep/Open Water
- Non-Native Grassland
- Pastureland/Cultivated Agriculture
- Semi-Desert Chaparral
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

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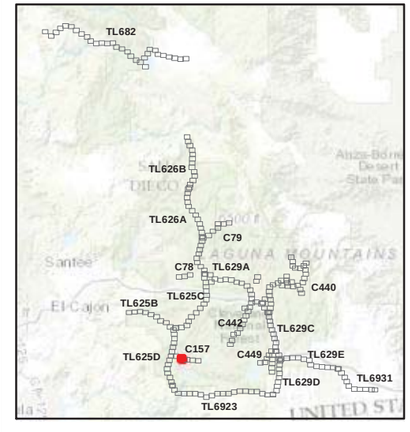
Attachment A-7:
C157
Components and Vegetation Mapping
Map 2 of 5

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Native Grassland
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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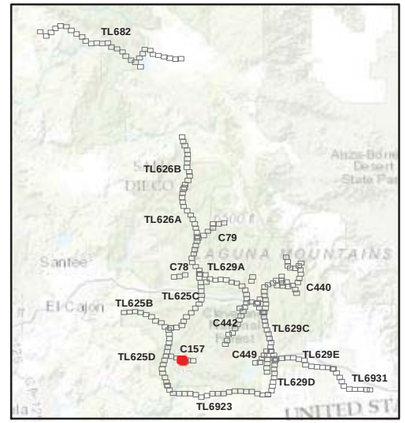
Attachment A-7:
C157
Components and Vegetation Mapping
Map 3 of 5

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Stringing Site
- Access Road

Vegetation

- Native Grassland
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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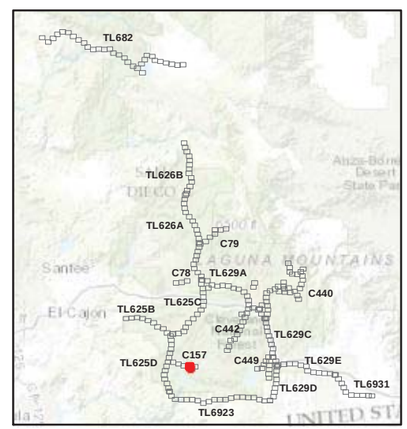
Attachment A-7:
C157
Components and Vegetation Mapping
Map 4 of 5

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Native Grassland
- Non-Native Grassland
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

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Attachment A-7:
C157
Components and Vegetation Mapping
Map 5 of 5

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Vegetation

- Mixed Oak Woodland
- Non-Native Grassland
- Southern Mixed Chaparral
- Southern Riparian Forest

P28
P29
P278741
P278742
P278743
P278744
P-6
P278745
P476799
P278746
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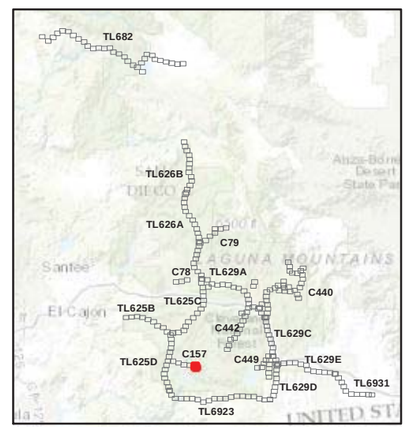

SDGE A Sempra Energy utility

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ATTACHMENT A-8: C442 COMPONENTS AND VEGETATION MAPPING

Attachment A-8:
C442
Components and Vegetation Mapping
Map 1 of 14

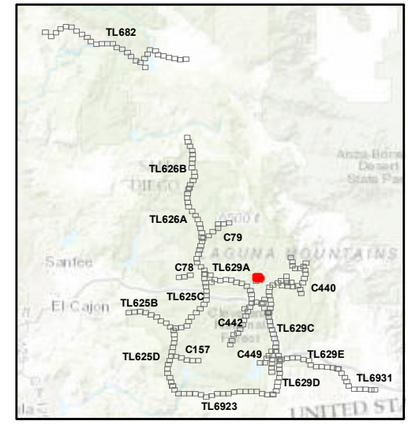
Cleveland National Forest
Power Line Replacement Projects

P478293
P178050
P178049
P178048
C442
P178047
P178046
P178045
P178059
P178044
P178043
P178042
P178064
P178056
P178041
P178062
P178063
P178055
P178040
P178054
P178039
P178051
P178060
P178052
Pine Creek Rd
Pine Creek Rd

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Montane Forest
- Southern Mixed Chaparral



SDGE A Sempra Energy utility
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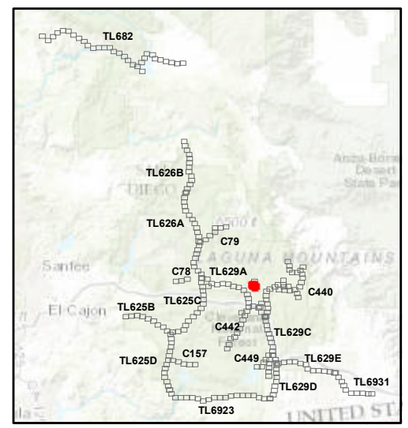
Attachment A-8:
C442
Components and Vegetation Mapping
Map 2 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Montane Forest
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/20/2016

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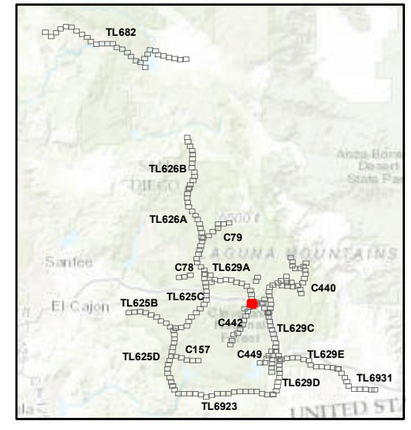
Attachment A-8:
C442
Components and Vegetation Mapping
Map 3 of 14

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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6/20/2016

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Attachment A-8:
C442
Components and Vegetation Mapping
Map 4 of 14

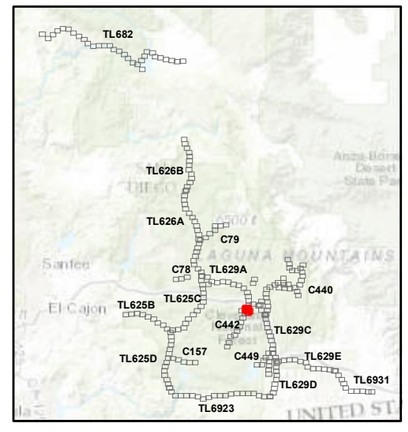
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Mixed Oak Woodland
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

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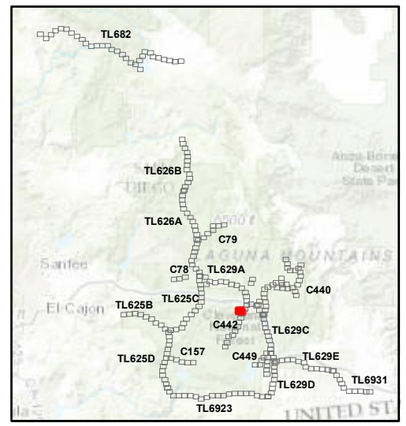
Attachment A-8:
C442
Components and Vegetation Mapping
Map 5 of 14

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Freshwater Seep/Open Water
- Mixed Oak Woodland
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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Attachment A-8:
C442
Components and Vegetation Mapping
Map 6 of 14

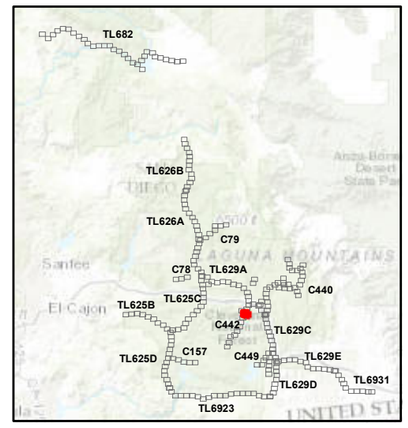
Cleveland National Forest
Power Line Replacement Projects

P176954
P176955
P176956
P176957
P-33 (#21)
P176958
C442
P-34 (#23)
P176959
P-35 (#25)
P176960
P176961
P176962
P176963

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Southern Mixed Chaparral



SDGE A Sempra Energy utility
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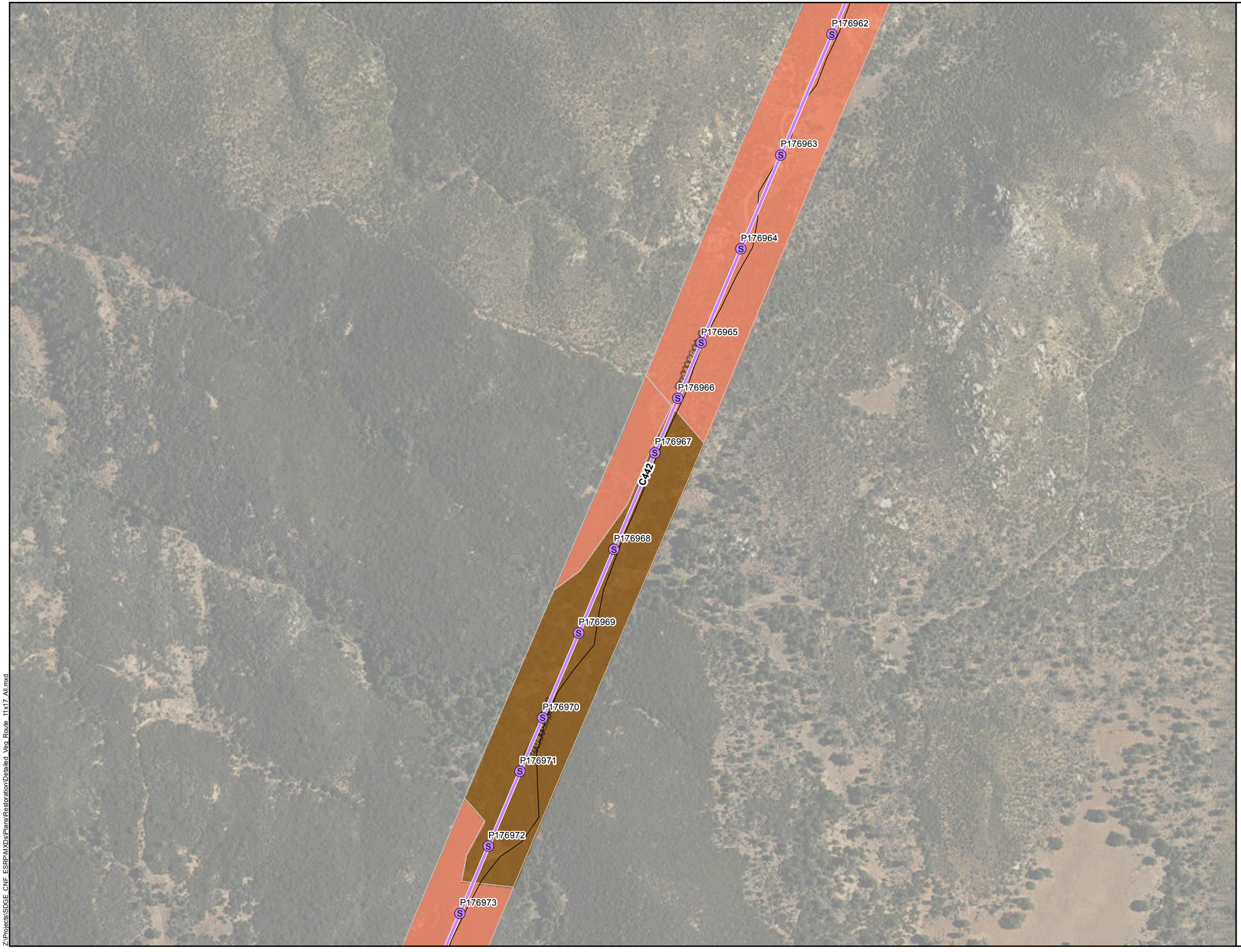
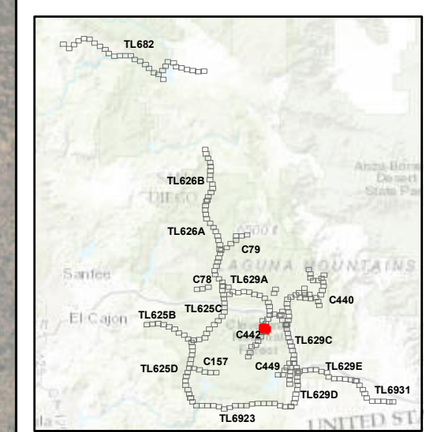


Attachment A-8:
C442
Components and Vegetation Mapping
Map 7 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Access Road

Vegetation
Mixed Oak Woodland
Southern Mixed Chaparral



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Attachment A-8:
C442
Components and Vegetation Mapping
Map 8 of 14

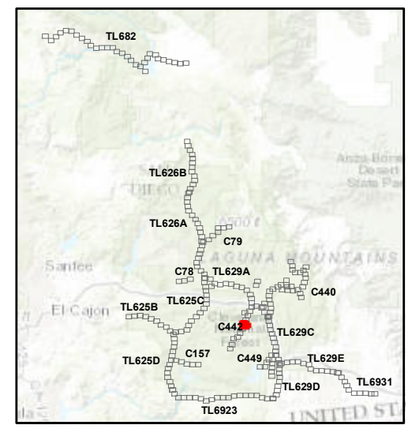
Cleveland National Forest
Power Line Replacement Projects

P176971
P176972
P176973
P176974
P176975
P176976
P176977
P176978
P176979
C442
P176980
P177155
P176981

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Mixed Oak Woodland
- Southern Mixed Chaparral



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P177155
P176981
P-27 (#49)
P176982
P176983
P176984
P176985
C442
P176986
P176987
P176988
P176989
P176990
P176991

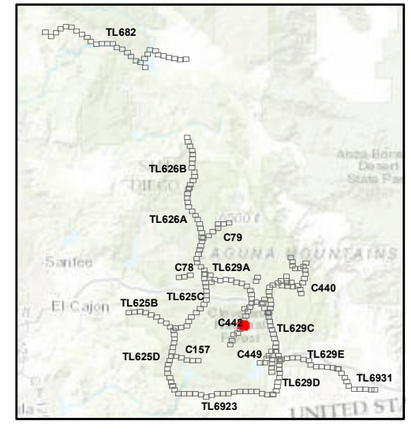
Attachment A-8:
C442
Components and Vegetation Mapping
Map 9 of 14

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Mixed Oak Woodland
- Southern Mixed Chaparral



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Attachment A-8:
C442
Components and Vegetation Mapping
Map 10 of 14

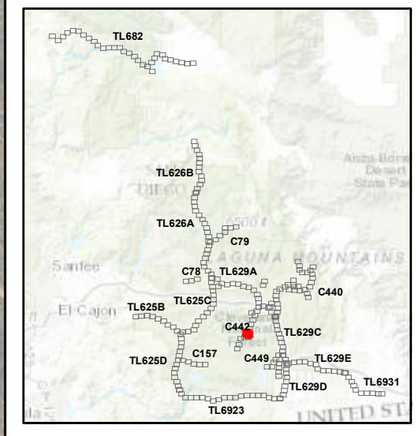
Cleveland National Forest
Power Line Replacement Projects

P176989
P176990
P176991
P176992
P176993
P176994
P-28 (#63)
C442
P176995
P176996
P176997
P-29
(#65/#67)
P176998
P176999
P177000

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Southern Mixed Chaparral



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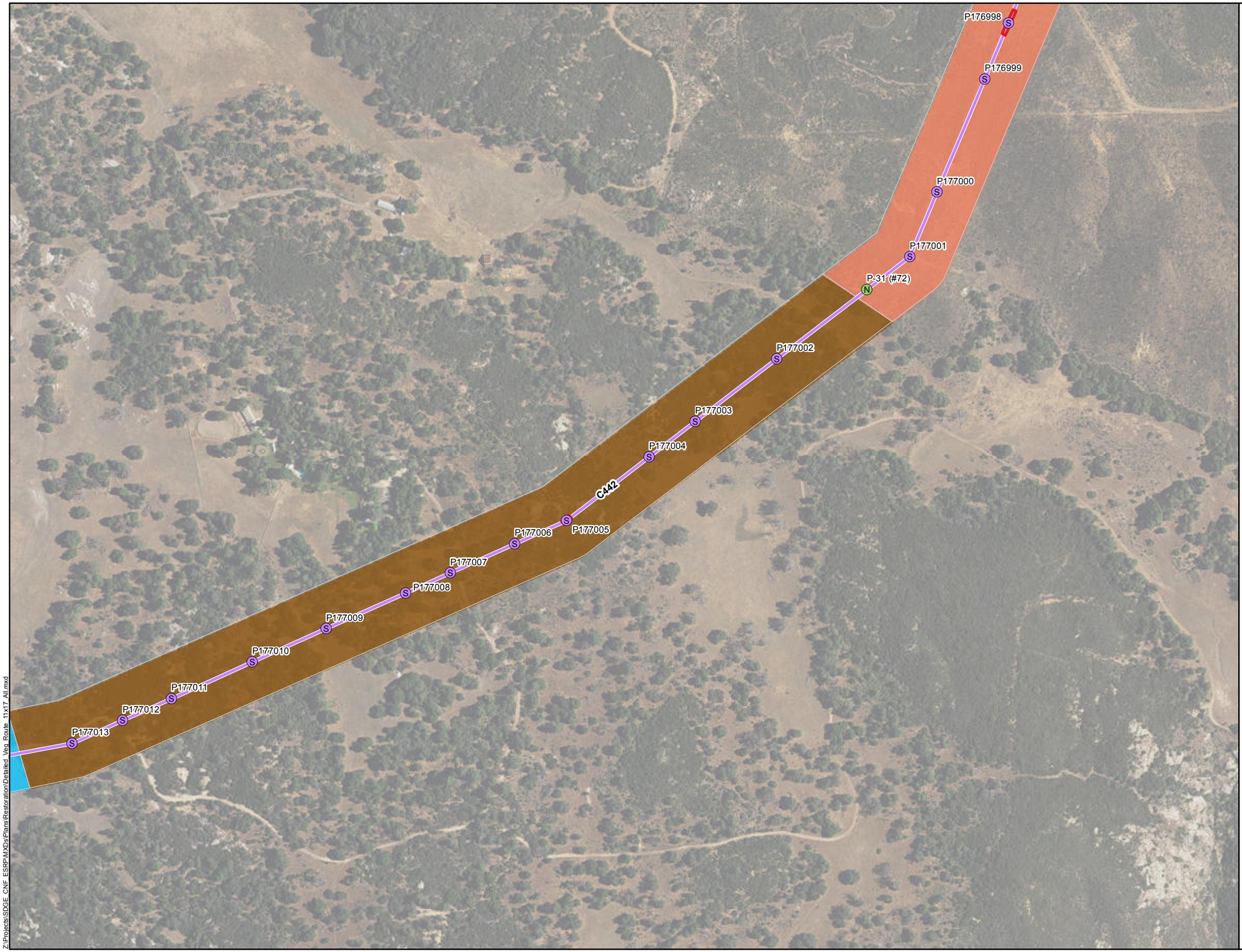


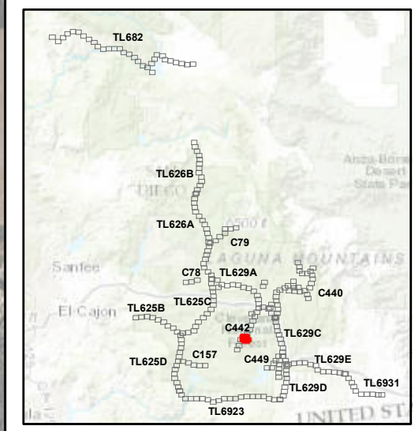
Attachment A-8:
C442
Components and Vegetation Mapping
Map 11 of 14

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Freshwater Seep/Open Water
- Mixed Oak Woodland
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

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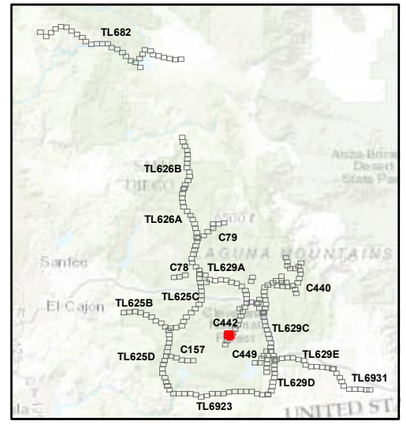
Attachment A-8:
C442
Components and Vegetation Mapping
Map 12 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Freshwater Seep/Open Water
- Mixed Oak Woodland
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment A-8:
C442
Components and Vegetation Mapping
Map 13 of 14

Cleveland National Forest
Power Line Replacement Projects

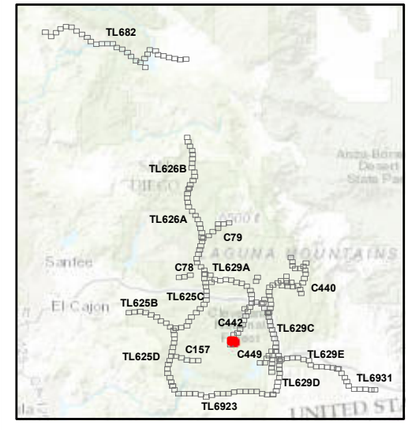
Fly Yard

Access Road

Vegetation

Disturbed (Ruderal/Barren)

Southern Mixed Chaparral



SDGE A Sempra Energy utility

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Attachment A-8:
C442
Components and Vegetation Mapping
Map 14 of 14

Cleveland National Forest
Power Line Replacement Projects

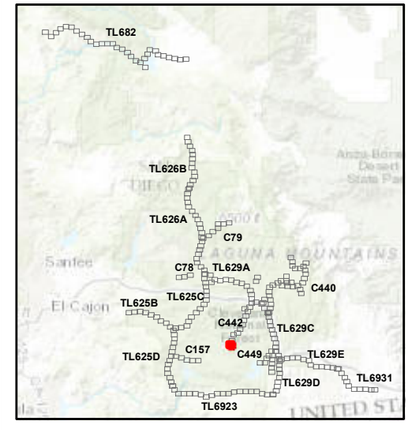
Fly Yard

Access Road

Vegetation

Disturbed (Ruderal/Barren)

Southern Mixed Chaparral



SDGE a Sempra Energy utility

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ATTACHMENT A-9: C440 COMPONENTS AND VEGETATION MAPPING

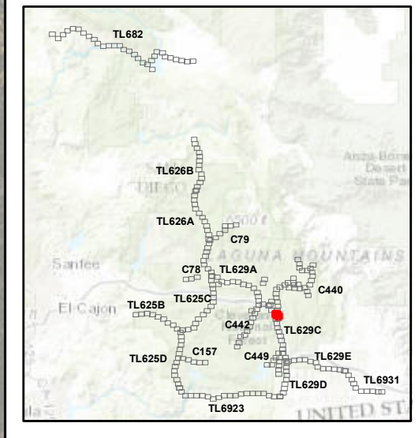
Attachment A-9:
C440
Components and Vegetation Mapping
Map 1 of 33

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Road
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment A-9:
C440
Components and Vegetation Mapping
Map 2 of 33

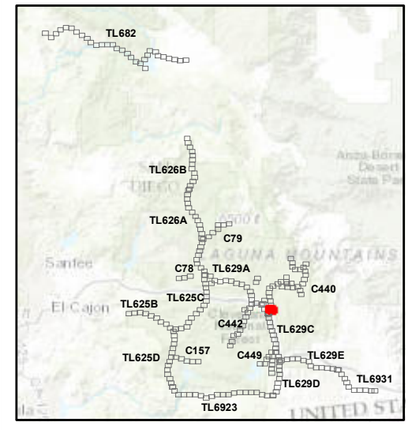
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Removal Pole
- Removal
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Chamise Chaparral
- Diegan Coastal Sage Scrub
- Mixed Oak Woodland



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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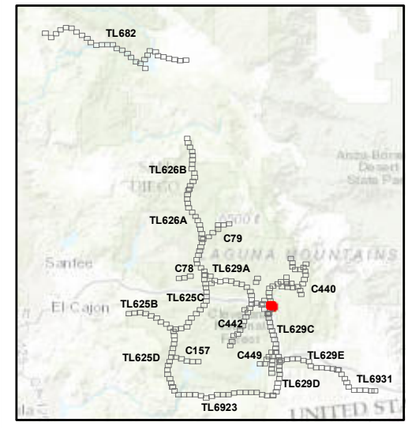
Attachment A-9:
C440
Components and Vegetation Mapping
Map 3 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Vegetation

- Chamise Chaparral
- Mixed Oak Woodland
- Southern Riparian Forest



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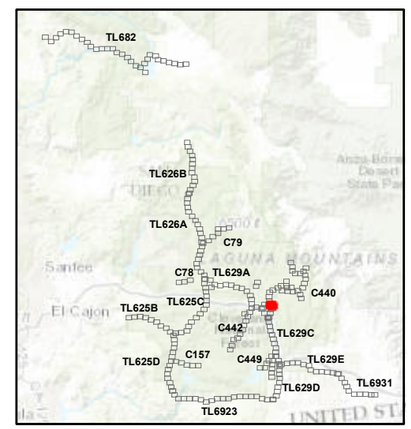
Attachment A-9:
C440
Components and Vegetation Mapping
Map 4 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Disturbed (Ruderal/Barren)
- Southern Mixed Chaparral
- Southern Riparian Forest



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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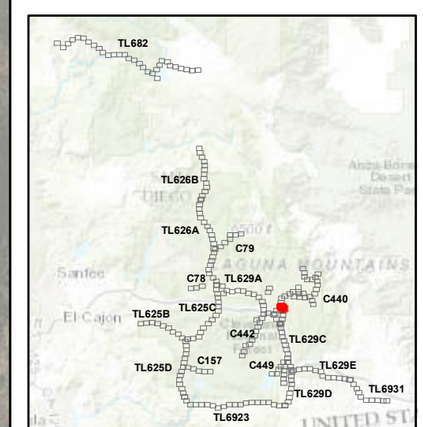
Attachment A-9:
C440
Components and Vegetation Mapping
Map 5 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Disturbed (Ruderal/Barren)
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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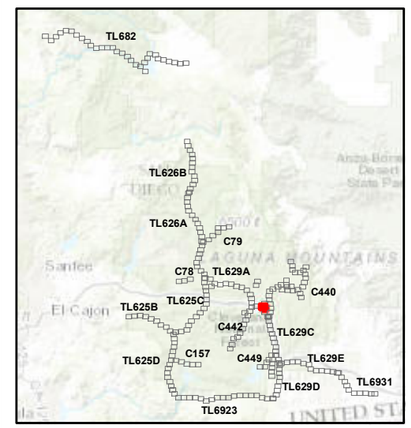
Attachment A-9:
C440
Components and Vegetation Mapping
Map 6 of 33

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Disturbed (Ruderal/Barren)
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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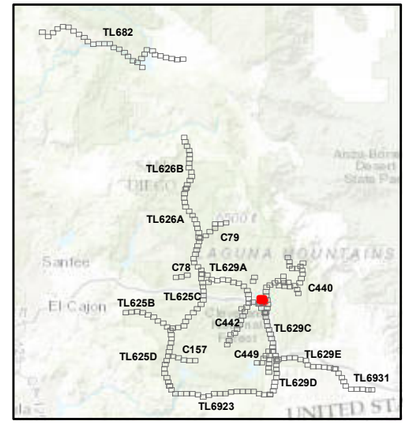
Attachment A-9:
C440
Components and Vegetation Mapping
Map 7 of 33

Cleveland National Forest
Power Line Replacement Projects

Undergrounding
Staging Area
Stringing Site
Access Road

Vegetation

Disturbed (Ruderal/Barren)
Southern Mixed Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

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Attachment A-9:
C440
Components and Vegetation Mapping
Map 8 of 33

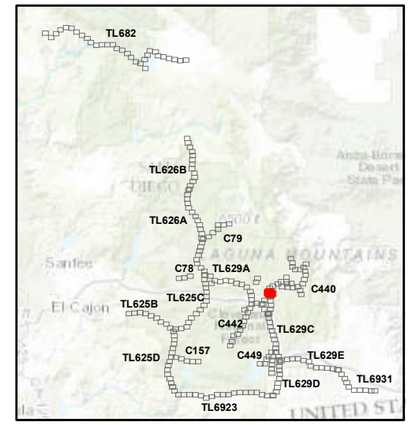
Cleveland National Forest
Power Line Replacement Projects

P40035
P40034
P40033
P40032
P40031
P40030
P40029
C440
Sunset Way

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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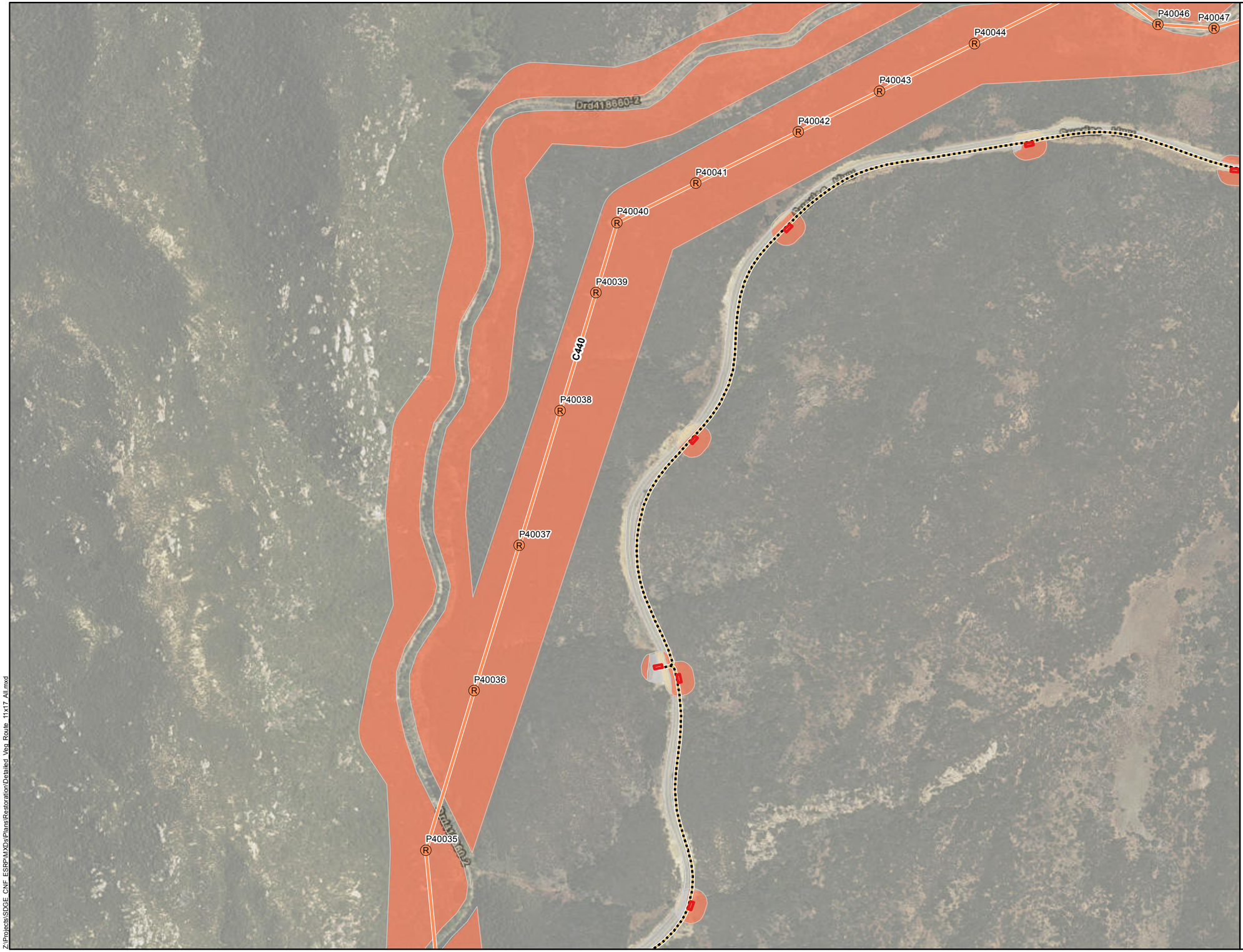


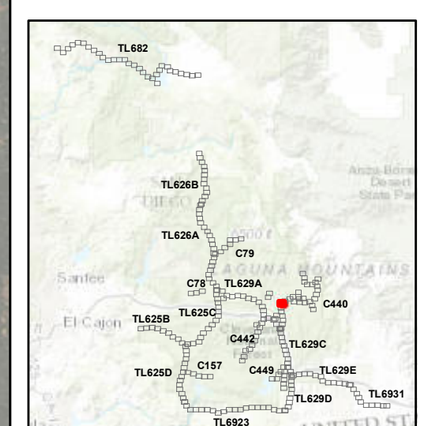
Attachment A-9:
C440
Components and Vegetation Mapping
Map 9 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility
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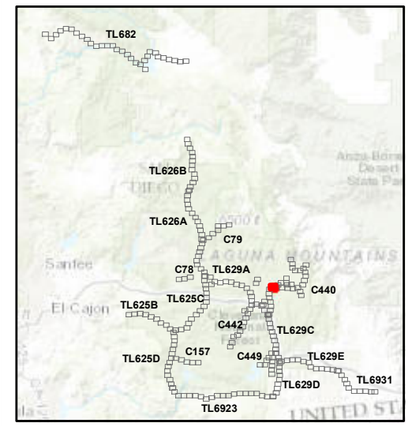
Attachment A-9:
C440
Components and Vegetation Mapping
Map 10 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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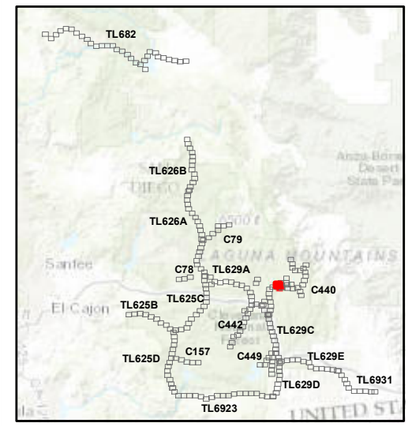
Attachment A-9:
C440
Components and Vegetation Mapping
Map 11 of 33

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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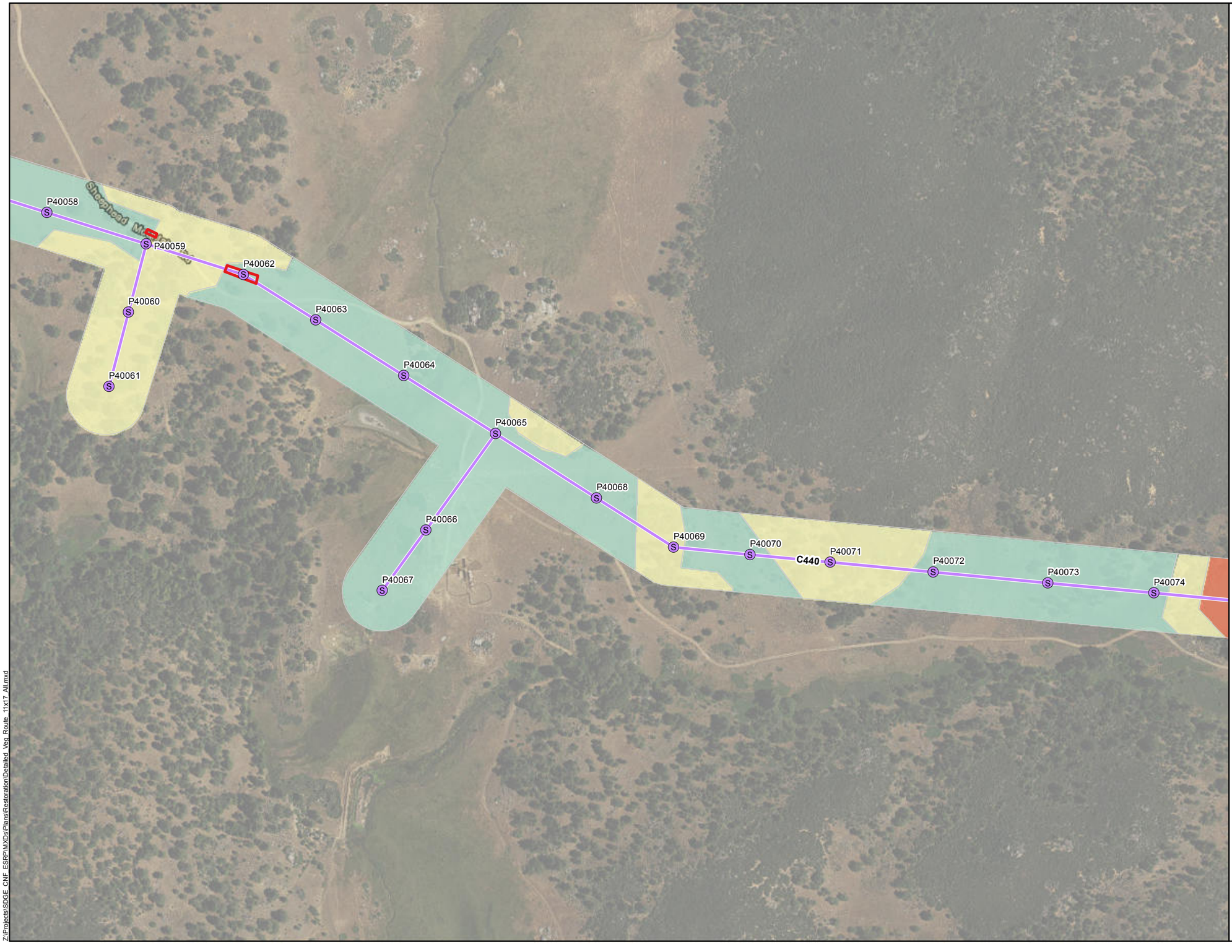


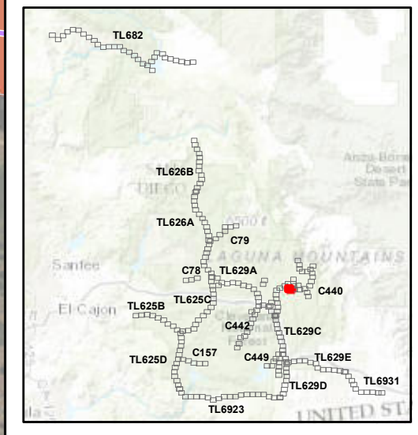
Attachment A-9:
C440
Components and Vegetation Mapping
Map 12 of 33

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Montane Forest
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral



SDGE a Sempra Energy utility
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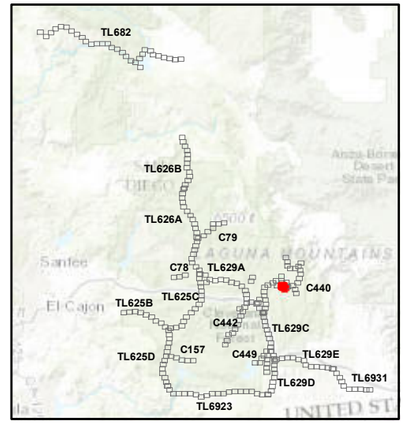
Attachment A-9:
C440
Components and Vegetation Mapping
Map 13 of 33

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Montane Forest
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral



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Attachment A-9:
C440
Components and Vegetation Mapping
Map 14 of 33

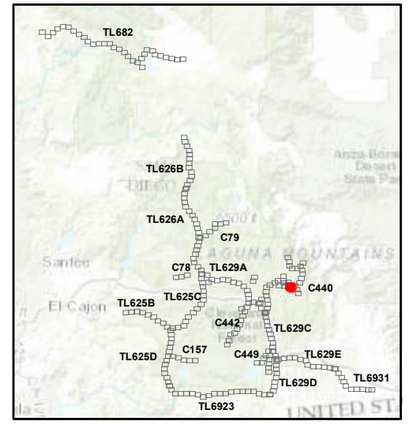
Cleveland National Forest
Power Line Replacement Projects



Removal Pole
Removal
Undergrounding
Staging Area
Stringing Site
Access Road

Vegetation

Disturbed (Ruderal/Barren)
Montane Forest
Southern Mixed Chaparral



SDGE A Sempra Energy utility
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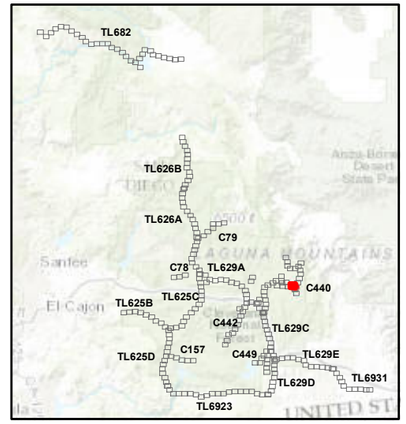
Attachment A-9:
C440
Components and Vegetation Mapping
Map 15 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Native Grassland
- Southern Mixed Chaparral



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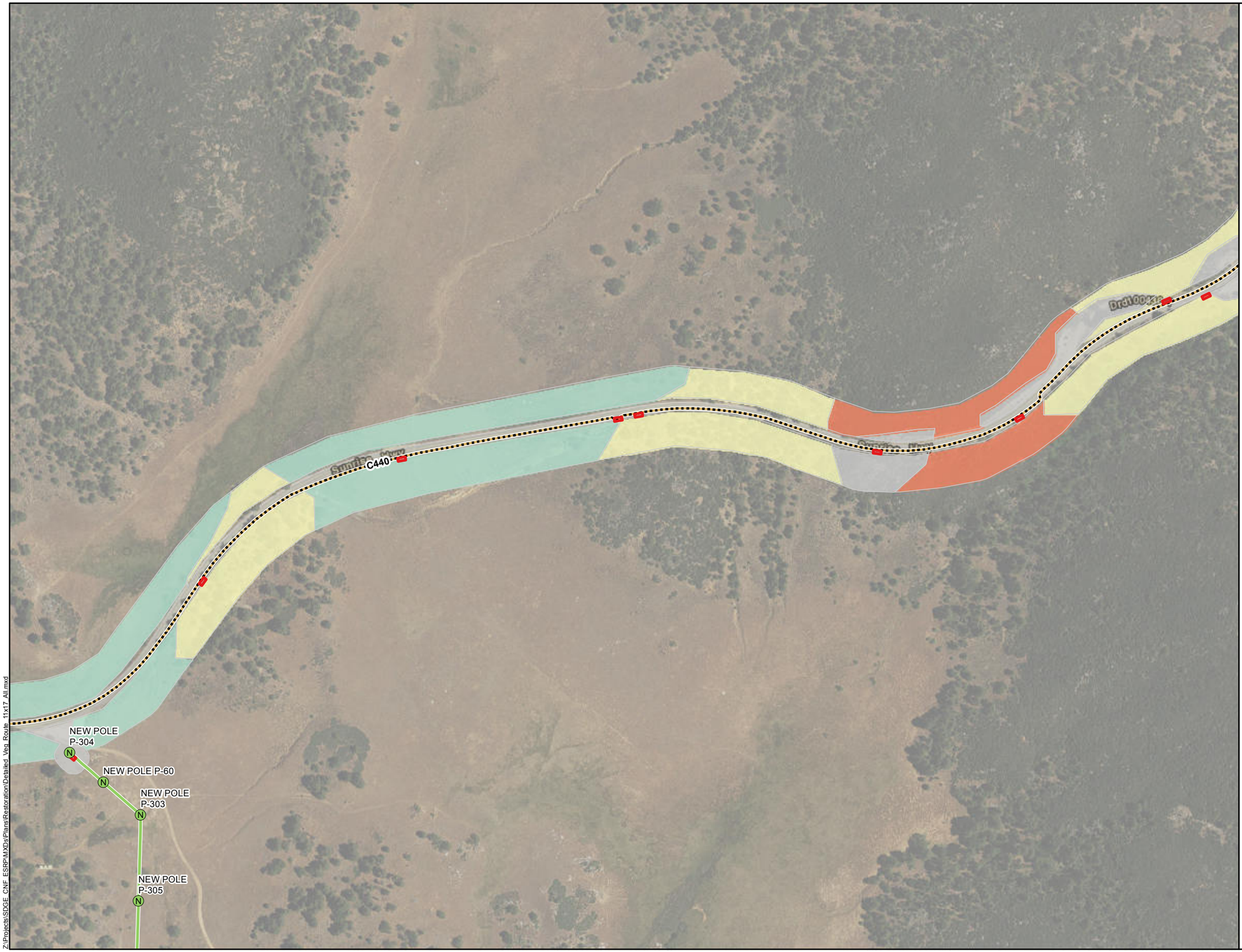
Attachment A-9:
C440
Components and Vegetation Mapping
Map 16 of 33

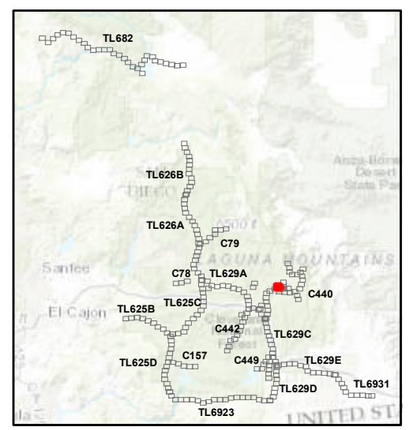
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- New Steel
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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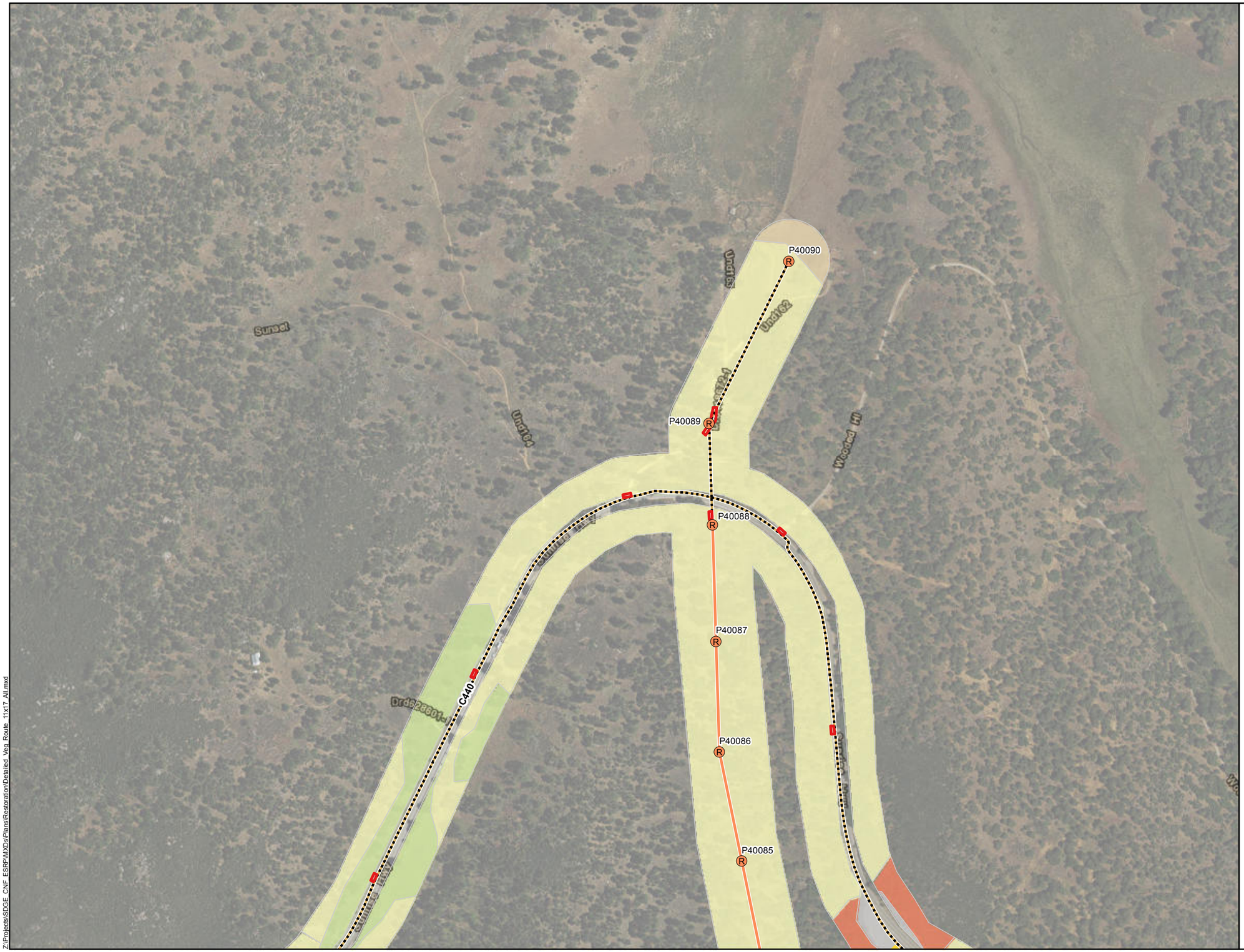
Attachment A-9:
C440
Components and Vegetation Mapping
Map 17 of 33

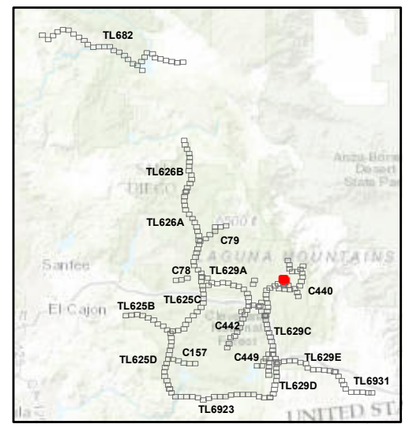
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Non-Native Grassland
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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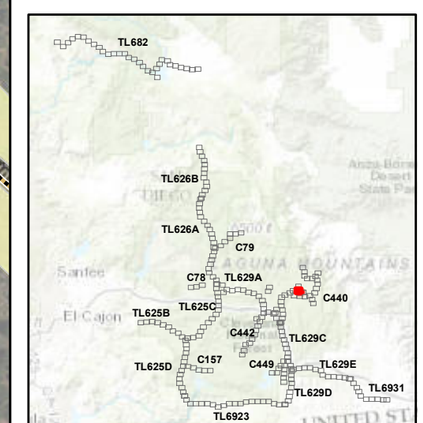
Attachment A-9:
C440
Components and Vegetation Mapping
Map 18 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Non-Native Grassland
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral



SDGE A Sempra Energy utility
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P40079
P40078
P40077
P45306
C440

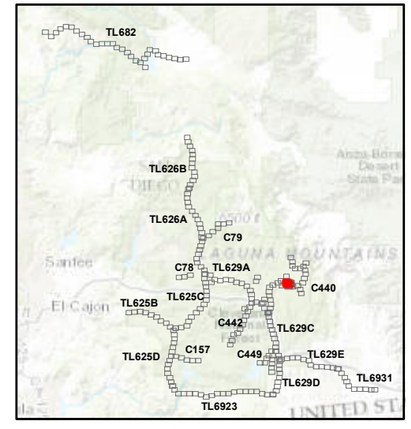
Attachment A-9:
C440
Components and Vegetation Mapping
Map 19 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral



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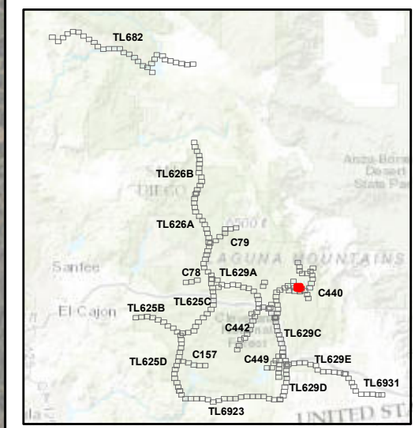
Attachment A-9:
C440
Components and Vegetation Mapping
Map 20 of 33

Cleveland National Forest
Power Line Replacement Projects

- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest



SDGE Sempra Energy utility

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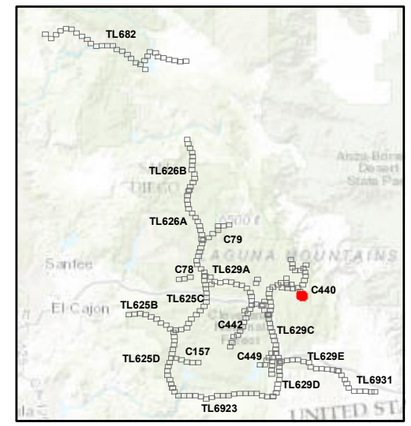
Attachment A-9:
C440
Components and Vegetation Mapping
Map 21 of 33

Cleveland National Forest
Power Line Replacement Projects





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SDGE a Sempra Energy utility

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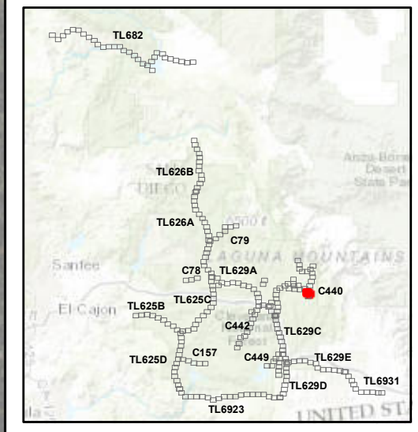
Attachment A-9:
C440
Components and Vegetation Mapping
Map 22 of 33

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Montane Forest
- Native Grassland
- Non-Native Grassland
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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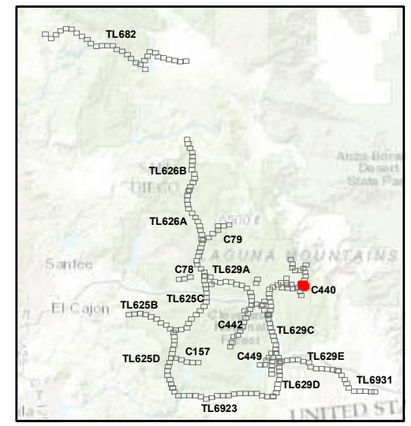
Attachment A-9:
C440
Components and Vegetation Mapping
Map 23 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Montane Forest
- Montane Wet Meadow



SDGE A Sempra Energy utility

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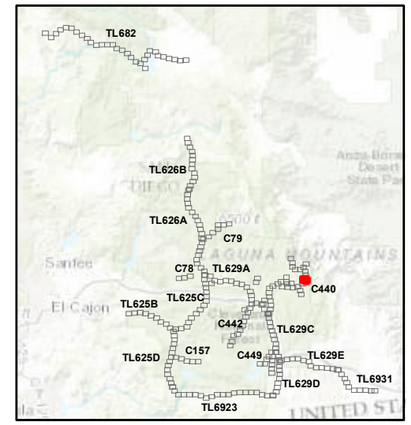
Attachment A-9:
C440
Components and Vegetation Mapping
Map 24 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Montane Wet Meadow
- Non-Native Grassland
- Urban and Developed/Ornamental Landscaping



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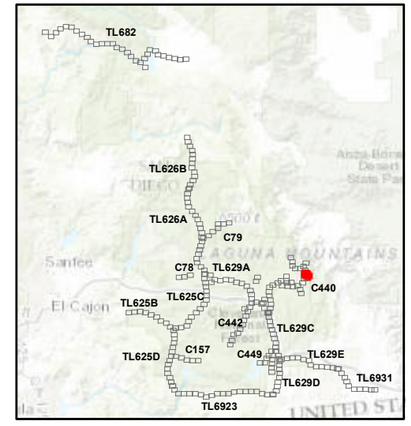
Attachment A-9:
C440
Components and Vegetation Mapping
Map 25 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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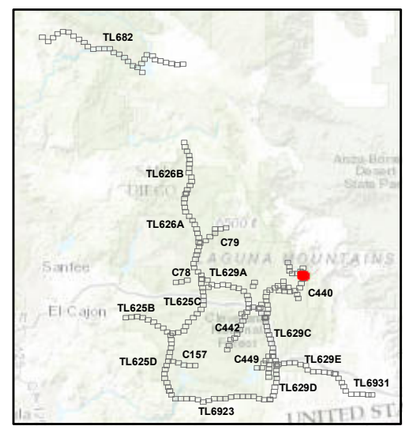
Attachment A-9:
C440
Components and Vegetation Mapping
Map 26 of 33

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Montane Wet Meadow
- Non-Native Grassland
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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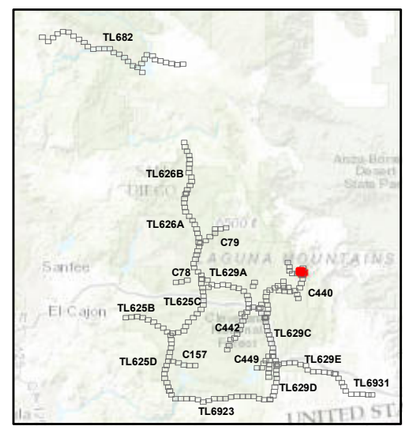
Attachment A-9:
C440
Components and Vegetation Mapping
Map 27 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Non-Native Grassland
- Oak Savanna
- Urban and Developed/Ornamental Landscaping



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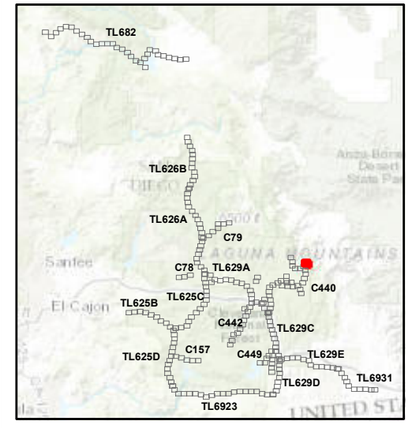
Attachment A-9:
C440
Components and Vegetation Mapping
Map 28 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Montane Forest
- Oak Savanna



SDGE A Sempra Energy utility

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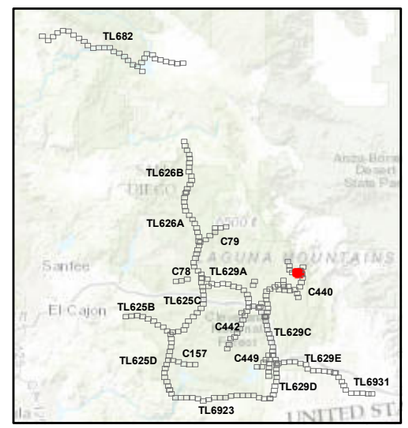
Attachment A-9:
C440
Components and Vegetation Mapping
Map 29 of 33

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Montane Wet Meadow
- Non-Native Grassland



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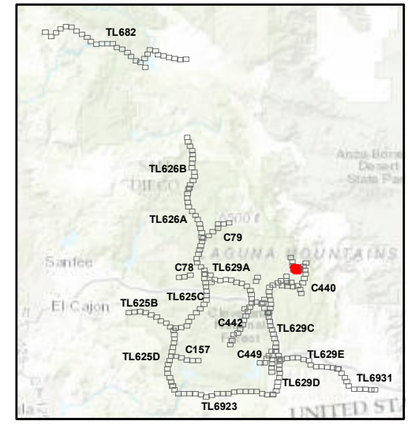
Attachment A-9:
C440
Components and Vegetation Mapping
Map 30 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Montane Wet Meadow



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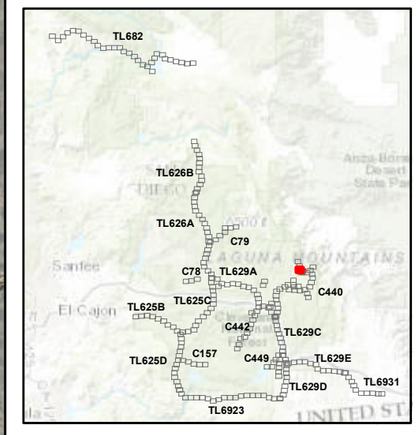
Attachment A-9:
C440
Components and Vegetation Mapping
Map 31 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Wet Meadow



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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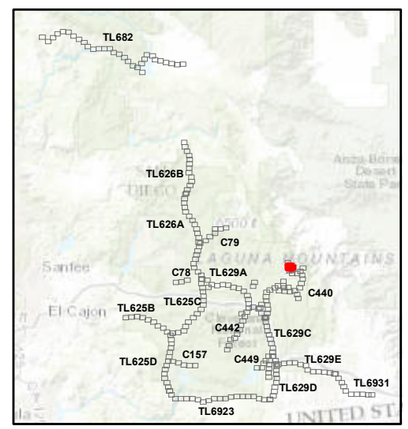
Attachment A-9:
C440
Components and Vegetation Mapping
Map 32 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Montane Wet Meadow



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment A-9:
C440
Components and Vegetation Mapping
Map 33 of 33

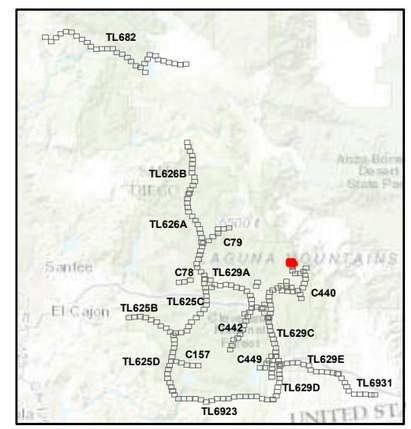
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Montane Forest
- Montane Wet Meadow
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/20/2016

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ATTACHMENT A-10: TL626A COMPONENTS AND VEGETATION MAPPING

Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 1 of 21

Cleveland National Forest
Power Line Replacement Projects

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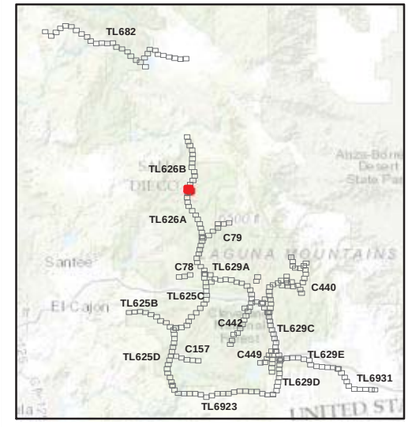
Z213659
TL626B
Z213658
Z213657
Z213656
Z213655
Z213654
Z213653
Z213652
Drd118804-1
Z213651
TL626A
Z213650
Z213649
Drd118805-1

- Removal Pole
- Removal
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/17/2016



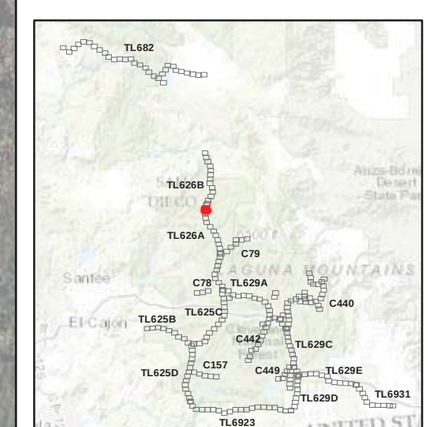
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 2 of 21

Cleveland National Forest
Power Line Replacement Projects

Removal Pole
Removal
Access Road

Vegetation

Southern Mixed Chaparral



SDGE
A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/17/2016

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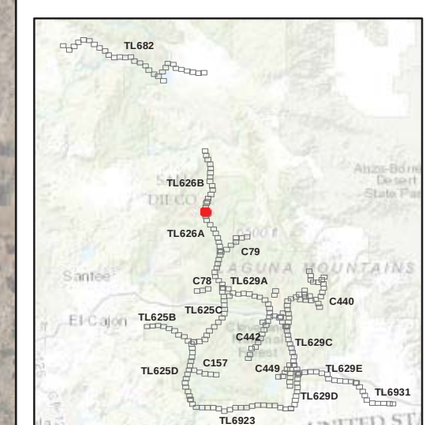
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 3 of 21

Cleveland National Forest
Power Line Replacement Projects

Removal Pole
Removal
Access Road

Vegetation
Southern Mixed Chaparral
Southern Riparian Forest



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A Sempra Energy utility
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6/17/2016

Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 4 of 21

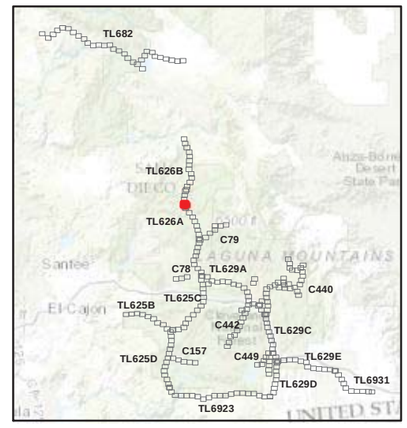
Cleveland National Forest
Power Line Replacement Projects

Z213634
Z213633
Z213632
Z213631
Z213630
Z213629
Z372164
Z372163
Z372162
Z372161
Z372160
Z372159
TL626A
Und760
Und760
Und760

- Removal Pole
- Removal
- Access Road

Vegetation

- Southern Mixed Chaparral
- Southern Riparian Forest



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/17/2016

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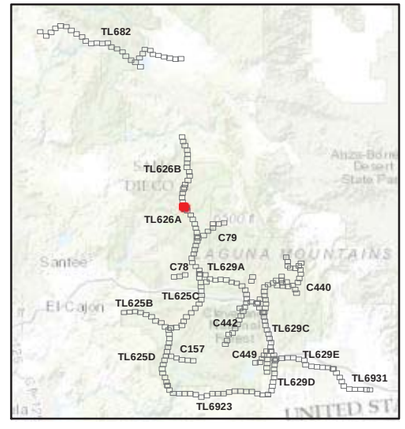
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 5 of 21

Cleveland National Forest
Power Line Replacement Projects

Removal Pole
Removal
Stringing Site
Access Road

Vegetation

Mixed Oak Woodland
Road
Southern Mixed Chaparral
Southern Riparian Forest



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 6 of 21

Cleveland National Forest
Power Line Replacement Projects

Z372151
Z372150
Z372149
Z372148
Z372147
Z372146
Z372145
Z372144
Z372143
Z372142
Z372141
Z372140
Z372139
Z372138
Z372137
TL626A
Prd638701-1
Und906
Und908
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Und911
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Und949

Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 7 of 21

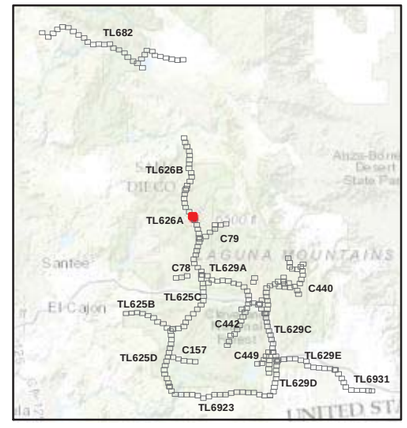
Cleveland National Forest
Power Line Replacement Projects

Z372138
Z372137
Z372136
Z372135
Z372134
Z372133
Z372132
Z372131
Z372130
Z372129
Z372128
TL626A
UnnT69
UnnT68

- Removal Pole
- Removal
- Access Road

Vegetation

- Southern Mixed Chaparral
- Southern Riparian Forest



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 8 of 21

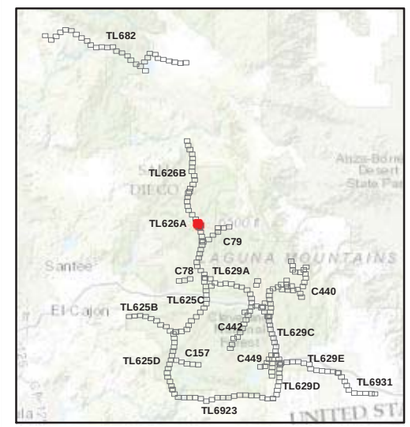
Cleveland National Forest
Power Line Replacement Projects

Z372130
Z372129
Z372128
Z372127
Z372126
TL626A
Z372125
Z372124
Z372123
Z372122
Z372121
Z372120
Z372119
Z372118
Sue299
Boulder Creek Rd
Boulder Creek

- Removal Pole
- Removal
- Stringing Site
- Access Road

Vegetation

- Road
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE a Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/17/2016

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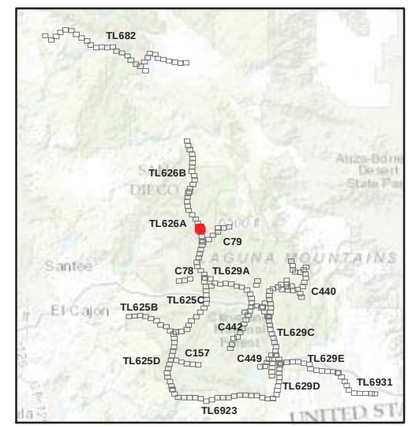
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 9 of 21

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Fly Yard
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Non-Native Grassland
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



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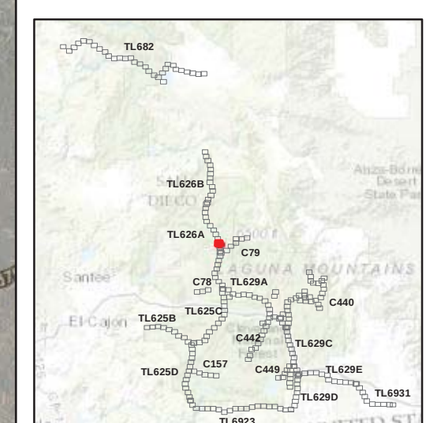
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 10 of 21

Cleveland National Forest
Power Line Replacement Projects

Removal Pole
Removal
Access Road
Vegetation
Southern Mixed Chaparral



SDGE A Sempra Energy utility
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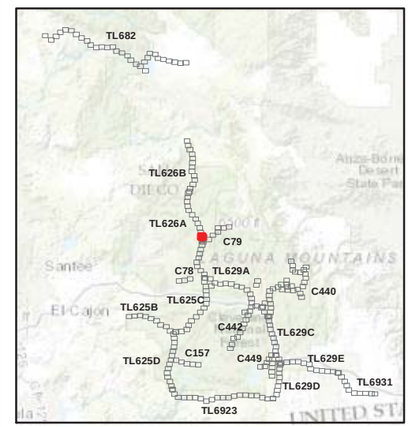
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 11 of 21

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel 12 kV Pole
Removal Pole
Removal
Wood-to-Steel 12 kV
Access Road

Vegetation

Disturbed (Ruderal/Barren)
Mixed Oak Woodland
Southern Mixed Chaparral



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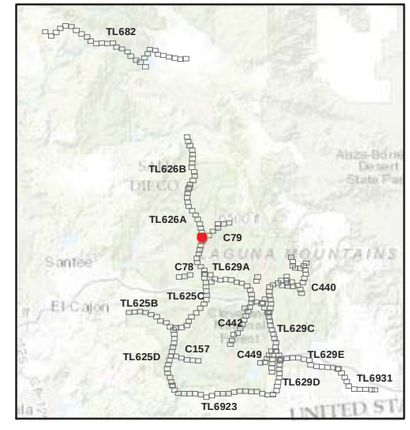
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 12 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Removal Pole
- Removal
- Wood-to-Steel 12 kV
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Road
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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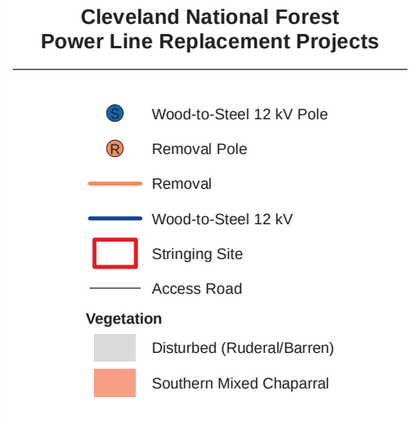
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 13 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Removal Pole
- Removal
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

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Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 14 of 21

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel 12 kV Pole

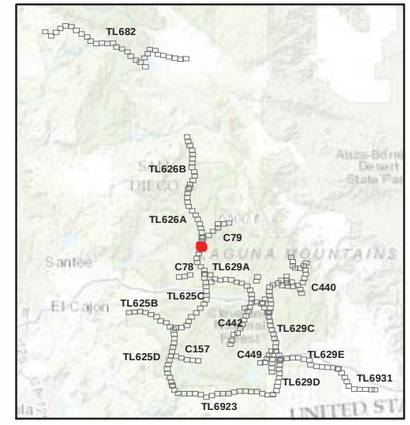
Wood-to-Steel 12 kV

Access Road

Vegetation

Southern Mixed Chaparral

Southern Riparian Forest



SDGE A Sempra Energy utility

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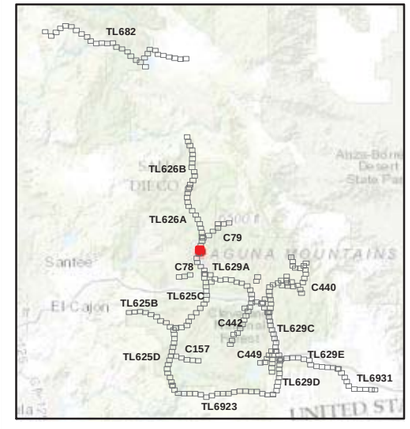
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 15 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Road
- Southern Mixed Chaparral



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Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 16 of 21

Cleveland National Forest
Power Line Replacement Projects



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Wood-to-Steel 12 kV Pole

Wood-to-Steel 12 kV

Stringing Site

Access Road

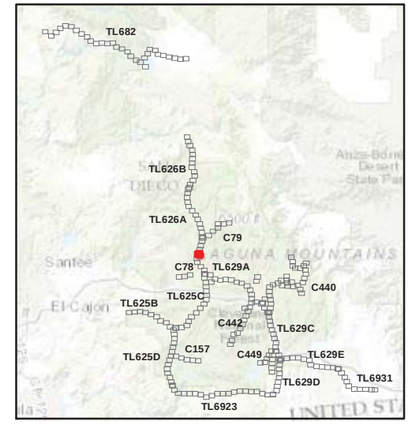
Vegetation

Disturbed (Ruderal/Barren)

Road

Southern Mixed Chaparral

Southern Riparian Forest



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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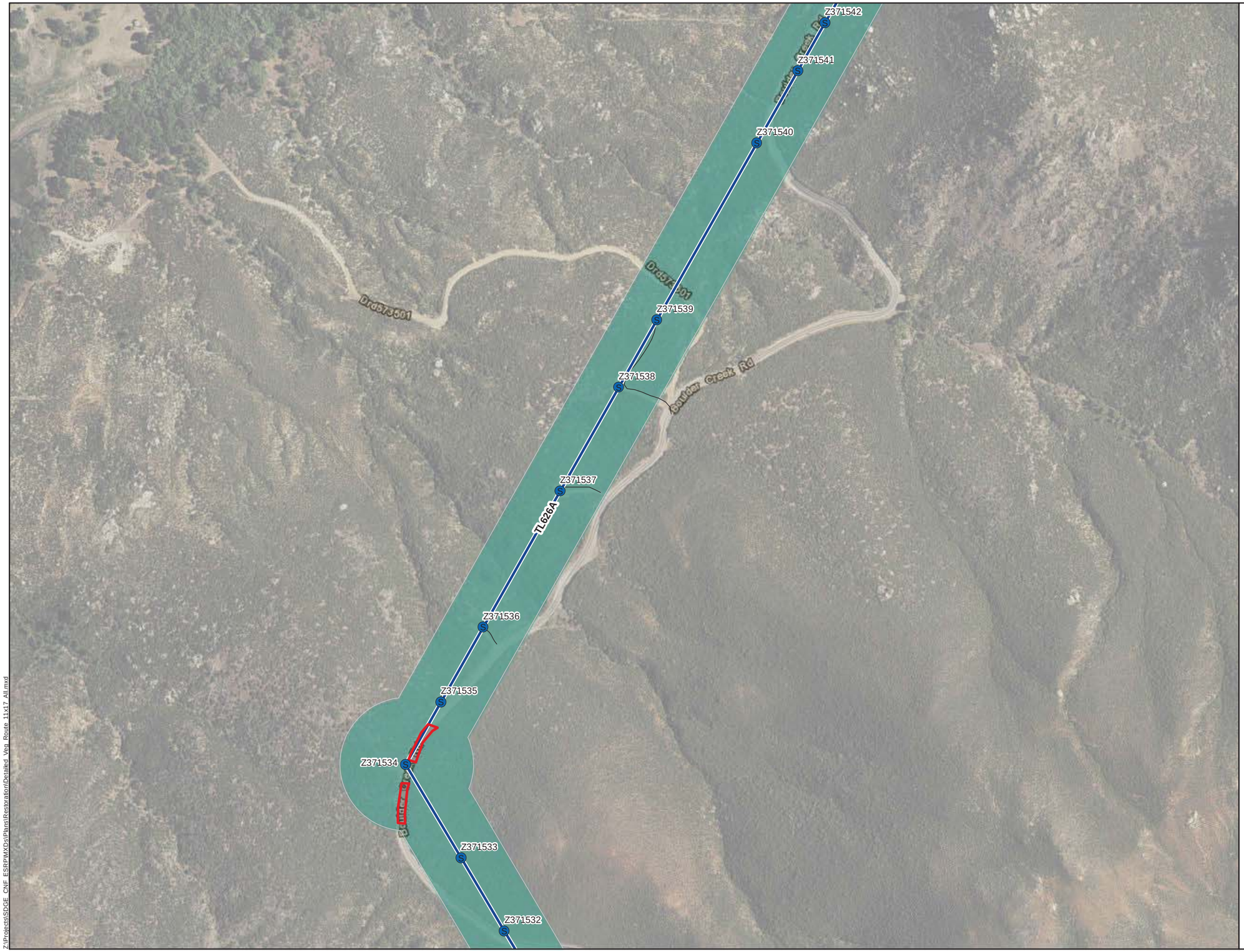


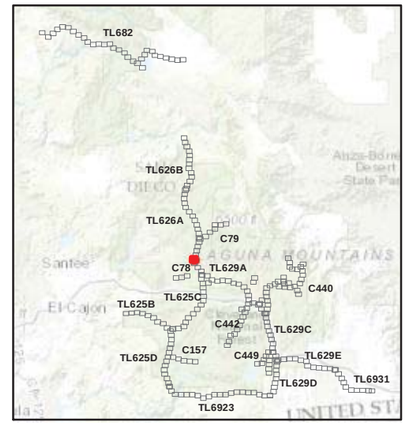
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 17 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Vegetation

- Road
- Southern Riparian Forest



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 18 of 21

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel 12 kV Pole

Wood-to-Steel 12 kV

Stringing Site

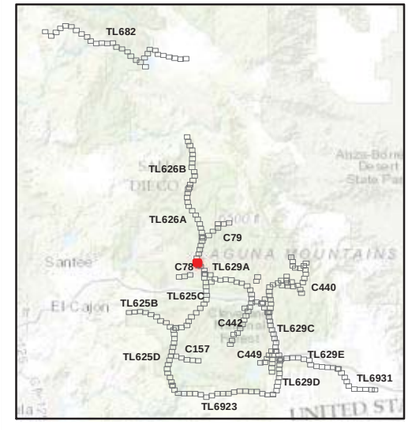
Access Road

Vegetation

Road

Southern Mixed Chaparral

Southern Riparian Forest



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 19 of 21

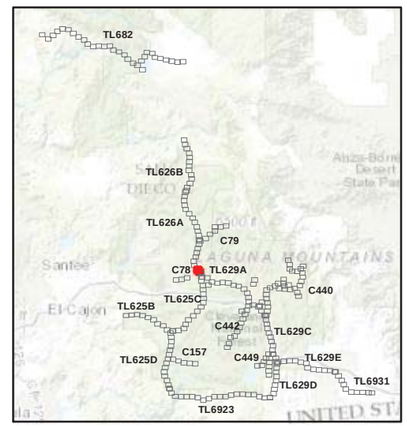
Cleveland National Forest
Power Line Replacement Projects

Z371526
Z371525
Z371524
Z371523
Z371522
Z371521
Z371520
Z371519
Z371518
Z371514
Z371513
Z371512
P972936
Z371511
Z371510
Z371509
TL626A
Boulder Creek Rd
Burrell Way

- Wood-to-Steel 12 kV Pole
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Vegetation

- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest



SDGE A Sempra Energy utility
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0 200 400 Feet

6/17/2016

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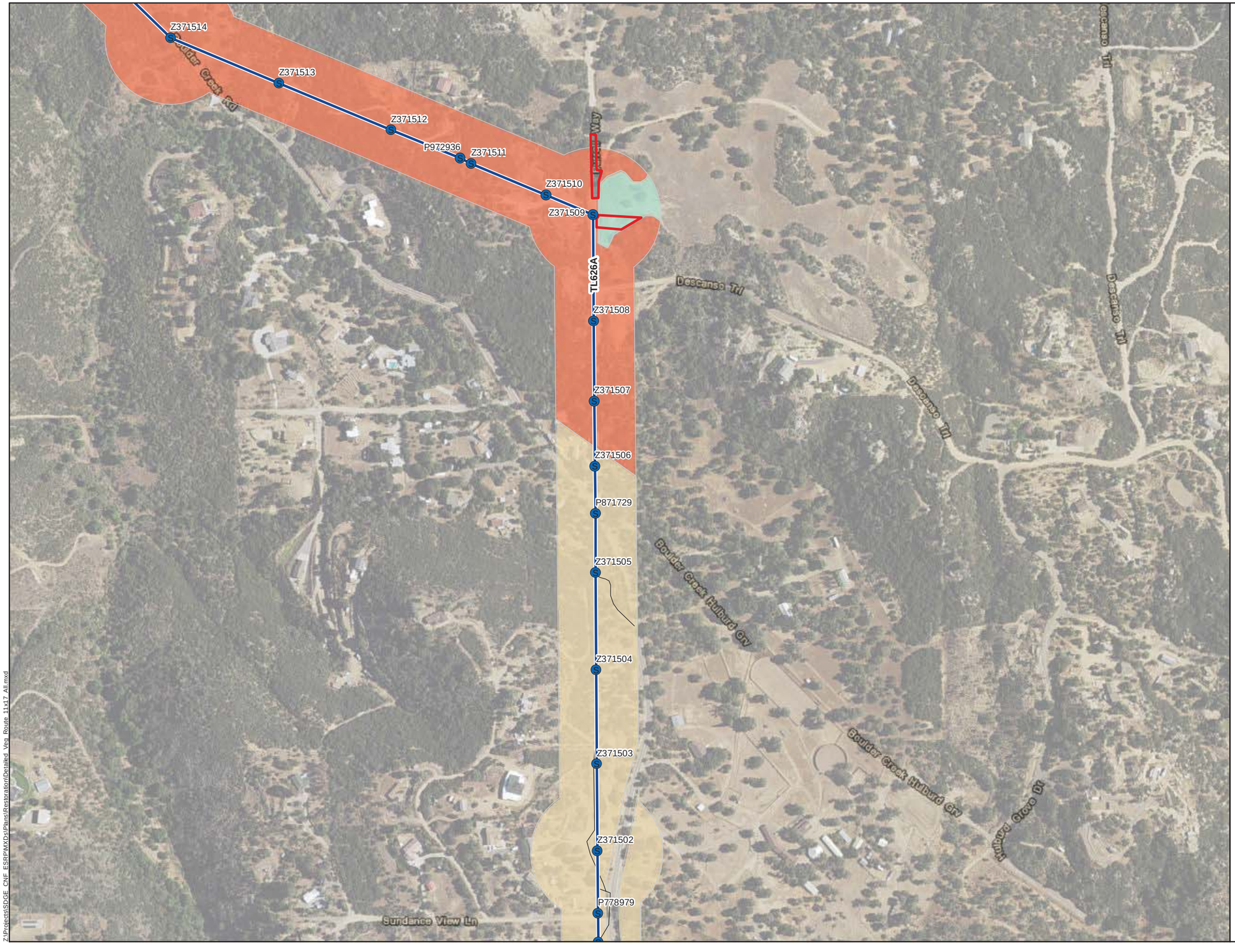
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 20 of 21

Cleveland National Forest
Power Line Replacement Projects



Wood-to-Steel 12 kV Pole

Wood-to-Steel 12 kV

Stringing Site

Access Road

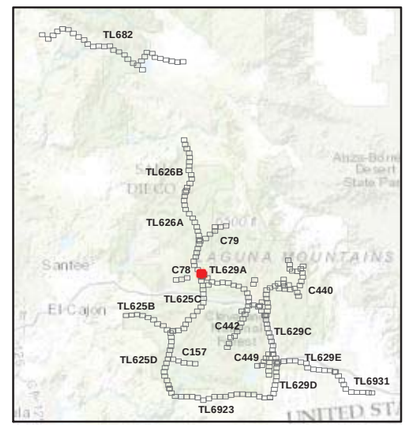
Vegetation

Pastureland/Cultivated Agriculture

Road

Southern Mixed Chaparral

Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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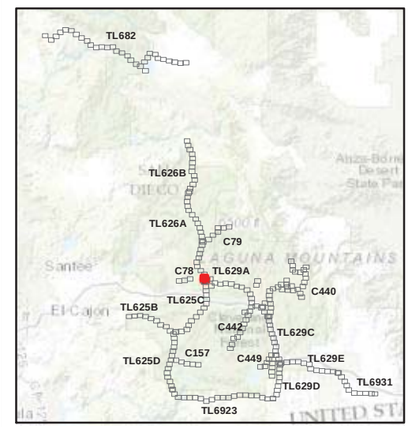
Attachment A-10:
TL626A
Components and Vegetation Mapping
Map 21 of 21

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel 12 kV Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel 12 kV
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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ATTACHMENT A-11: C449 COMPONENTS AND VEGETATION MAPPING

Attachment A-11:
C449
Components and Vegetation Mapping
Map 1 of 11

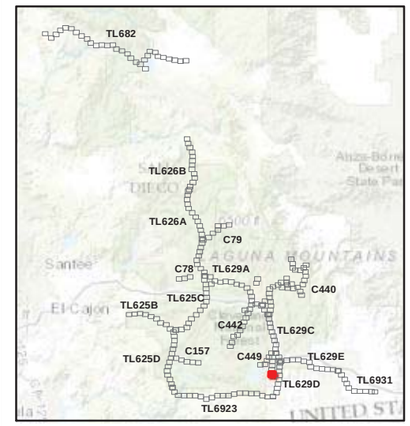
Cleveland National Forest
Power Line Replacement Projects

P42793
P42794
P42795
C449
P42796
P42797
P42798
P42911
P42912
Buckman Springs Rd
Morrisville Rd
Oak Dr
Peprika Rd

- Removal Pole
- Removal
- Access Road

Vegetation

- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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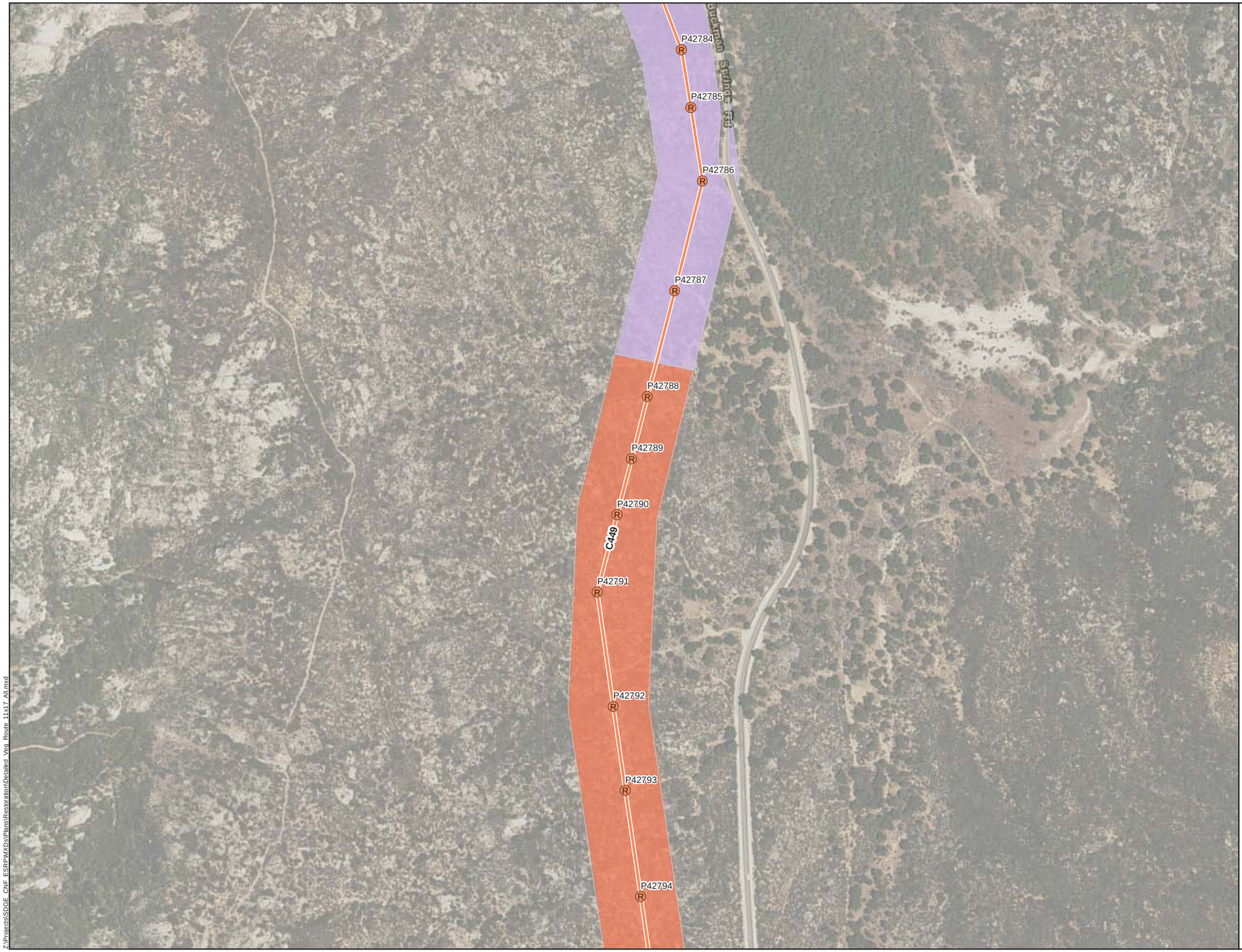


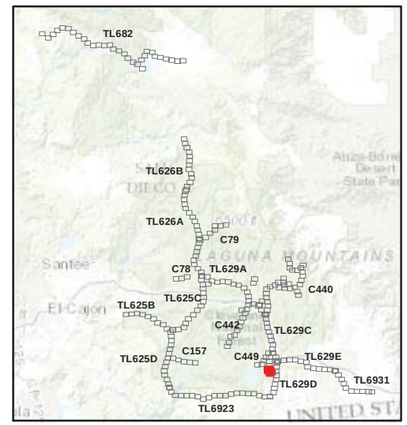
Attachment A-11:
C449
Components and Vegetation Mapping
Map 2 of 11

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Vegetation

- Oak Savanna
- Southern Mixed Chaparral



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6/17/2016

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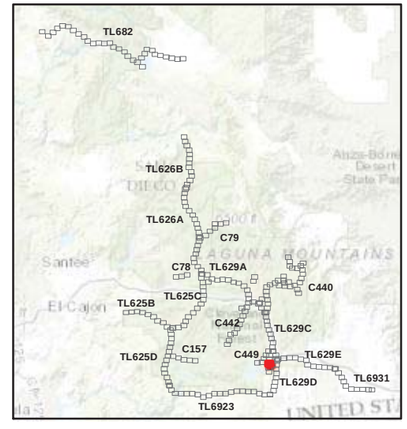
Attachment A-11:
C449
Components and Vegetation Mapping
Map 3 of 11

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Vegetation

- Mixed Oak Woodland
- Oak Savanna



SDGE A Sempra Energy utility

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6/17/2016

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Attachment A-11:
C449
Components and Vegetation Mapping
Map 4 of 11

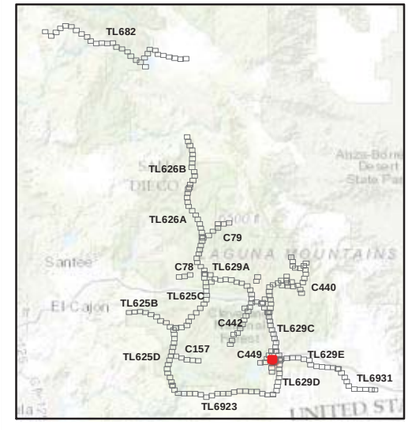
Cleveland National Forest
Power Line Replacement Projects

P42728
P42729
P42726
P42725
P42724
P42723
P42722
P42753
P42737
P42738
P42739
P42740
P42741
C449
P42742
P42743
P42744
P42745
Buckman Springs Rd

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Non-Native Grassland
- Oak Savanna
- Southern Mixed Chaparral
- Southern Riparian Forest



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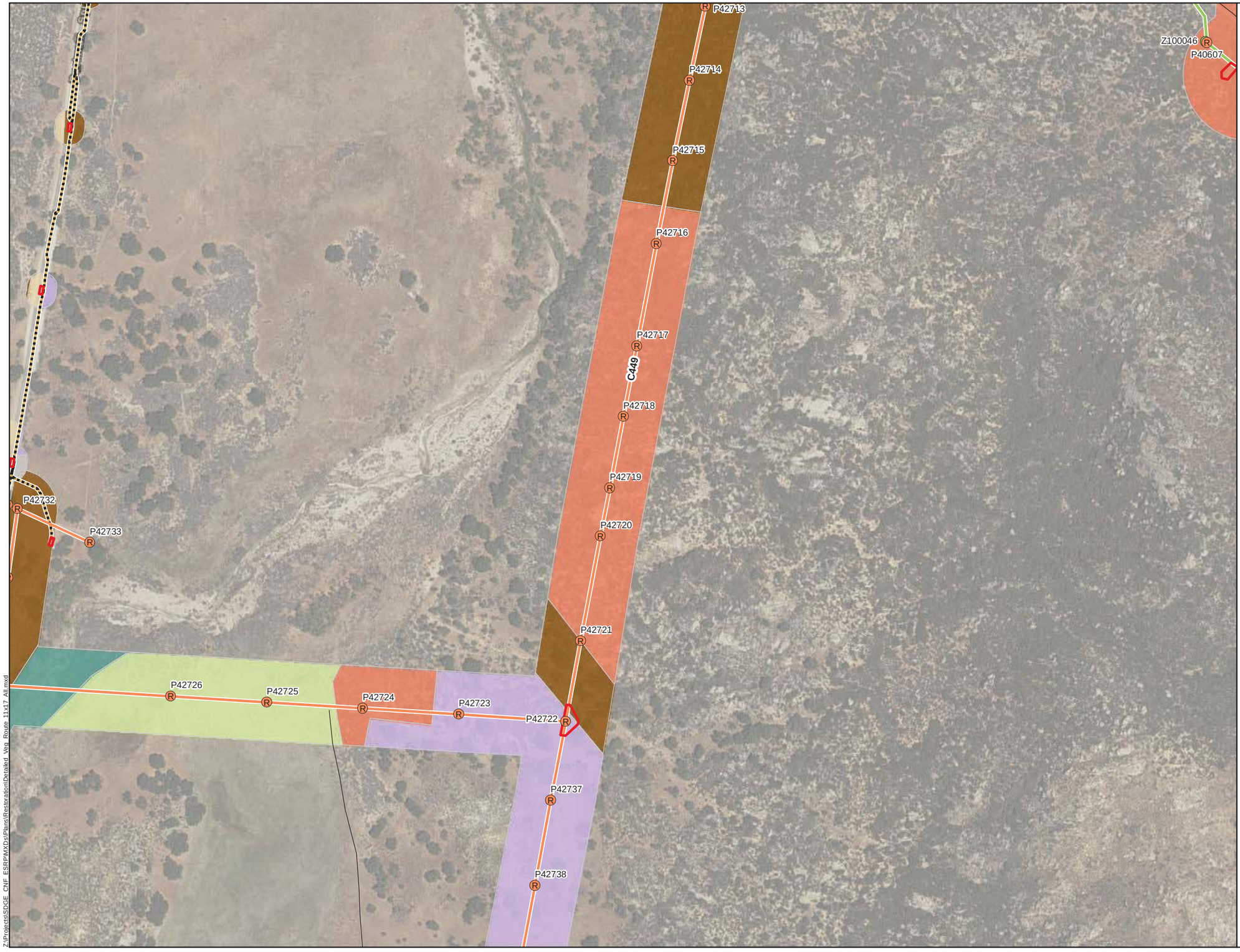
Attachment A-11:
C449
Components and Vegetation Mapping
Map 5 of 11

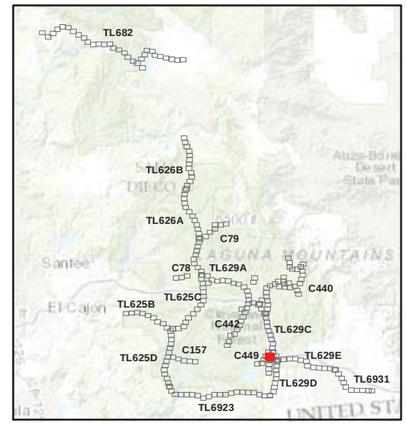
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Removal Pole
- New Steel
- Removal
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Oak Savanna
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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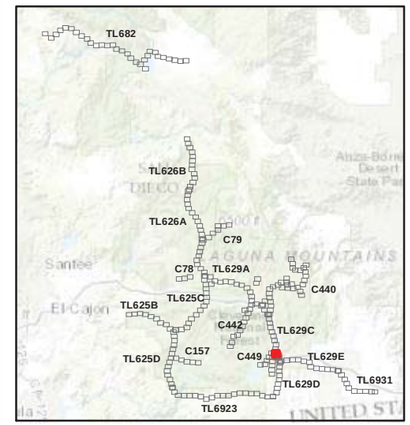
Attachment A-11:
C449
Components and Vegetation Mapping
Map 6 of 11

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Road
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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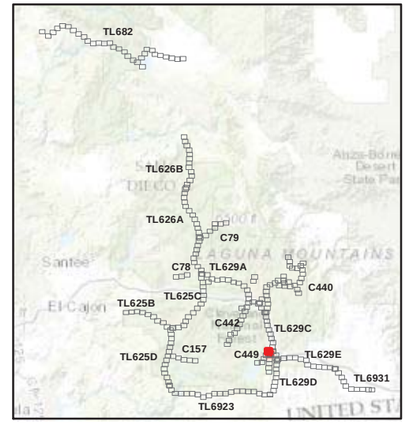
Attachment A-11:
C449
Components and Vegetation Mapping
Map 7 of 11

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Undergrounding
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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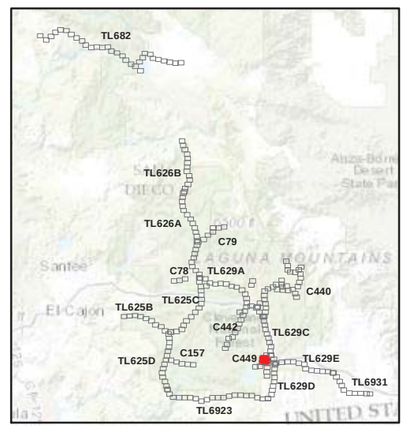
Attachment A-11:
C449
Components and Vegetation Mapping
Map 8 of 11

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Oak Savanna
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



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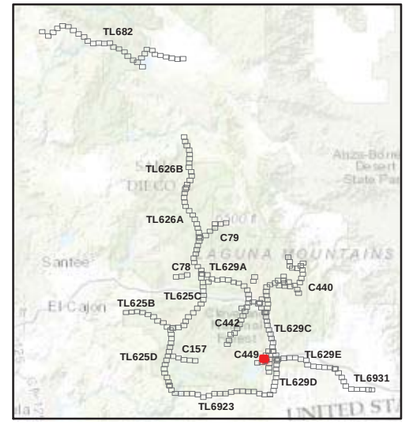
Attachment A-11:
C449
Components and Vegetation Mapping
Map 9 of 11

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Removal Pole
- New Steel
- Removal
- Undergrounding
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Oak Savanna
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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Attachment A-11:
C449
Components and Vegetation Mapping
Map 10 of 11

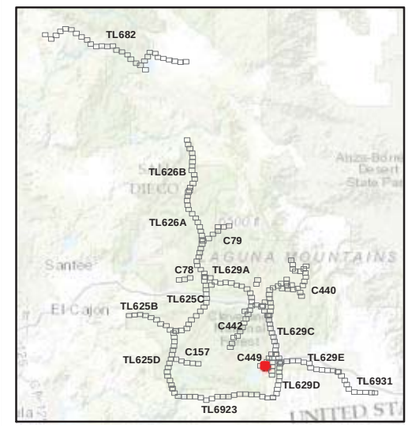
Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping

NEW POLE P-20
P42759
NEW POLE P-21
P42760
NEW POLE P-22
P104078
P42761
NEW POLE P-41
P42762
NEW POLE P-40
P42763
P46465
NEW POLE P-37
P46464
NEW POLE P-38
P46457
NEW POLE P-39
P42767
P42768
NEW POLE P-42
P42769
C449
P42770
NEW POLE P-43
P42771
NEW POLE P-44
P42772
NEW POLE P-45
NEW POLE P-46
P42773
NEW POLE P-47
P42774
NEW POLE P-48
NEW POLE P-49
NEW POLE P-50



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Attachment A-11:
C449
Components and Vegetation Mapping
Map 11 of 11

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Oak Savanna
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping

P161903
P42780
NEW POLE P-53
NEW POLE P-54
NEW POLE P-55
P42779
P45925
NEW POLE P-56
C449
P42778
NEW POLE P-57
P42777
P42776
NEW POLE P-50
P42775
NEW POLE P-49
NEW POLE P-47
NEW POLE P-46
NEW POLE P-45
NEW POLE P-44
P42770
P42774
P42772
P42771
NEW POLE P-48
P42773
NEW POLE P-43
Corral Cyn
Dry Wash 1
Dry Wash 2
Dry Wash 3
Dry Wash 4
Dry Wash 5
Dry Wash 6
Dry Wash 7
Dry Wash 8
Dry Wash 9
Dry Wash 10
Dry Wash 11
Dry Wash 12
Dry Wash 13
Dry Wash

ATTACHMENT A-12: TL625D COMPONENTS AND VEGETATION MAPPING

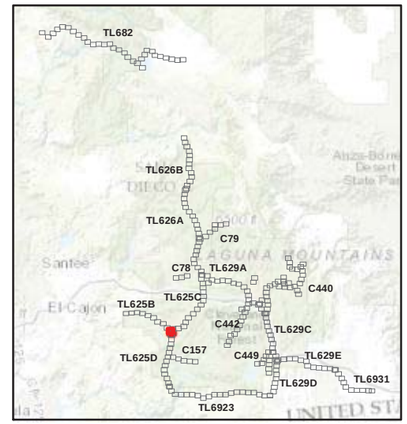
Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 1 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging Area
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Diegan Coastal Sage Scrub
- Mixed Oak Woodland
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 2 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

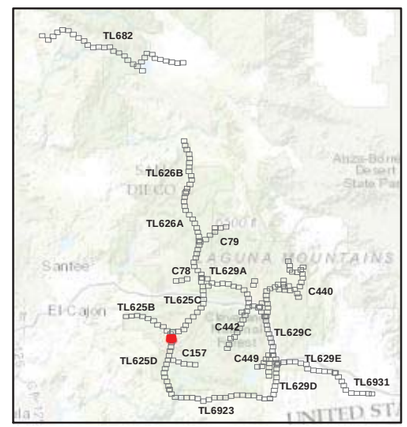
Stringing Site

Access Road

Vegetation

Diegan Coastal Sage Scrub

Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 3 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

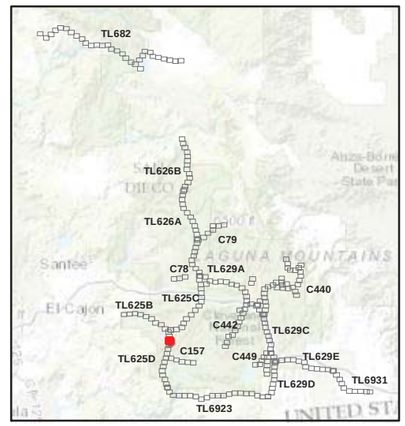
Wood-to-Steel Replacement

Access Road

Vegetation

Diegan Coastal Sage Scrub

Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 4 of 14

Cleveland National Forest
Power Line Replacement Projects

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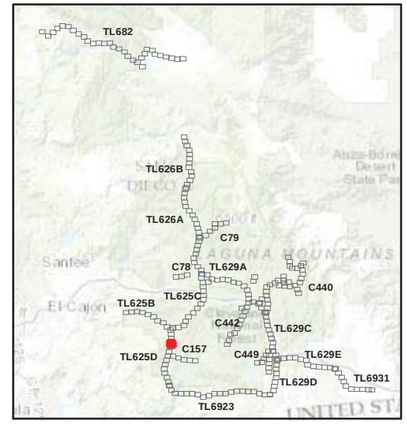
Z571426
Z778787
P874489
Z571427
Z206470
Z571428
Z571429
Z571430
Z571431
Z571432
TL625D
Carveacre Rd
Old Oak Rd
Barrel View Rd
Sky Ridge
Sky Ridge Rdg
Start Rock Rd
Cerveche Rd

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Mixed Oak Woodland
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 5 of 14

Cleveland National Forest
Power Line Replacement Projects

Z571432

Z571433

Z571434

Z571435

TL625D

Japatul Valley Rd

Japatul Valley Rd

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

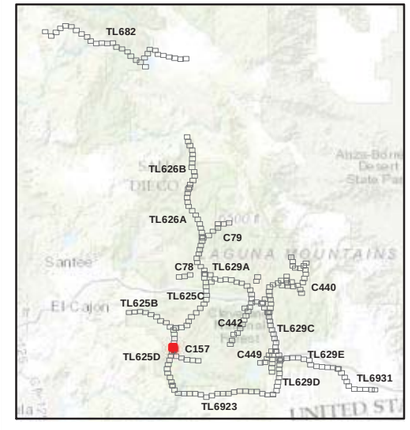
Vegetation

Chamise Chaparral

Diegan Coastal Sage Scrub

Mixed Oak Woodland

Road



SDGE A Sempra Energy utility

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6/17/2016

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Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 6 of 14

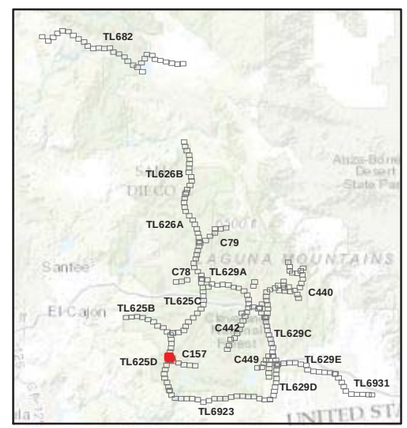
Cleveland National Forest
Power Line Replacement Projects

Z571435
Z571436
Z571437
Z571438
Z571439
Z571440
TL625D
Japatul Lyons Valley Rd
Sky Valley Rd

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Chamise Chaparral
- Mixed Oak Woodland



SDGE A Sempra Energy utility
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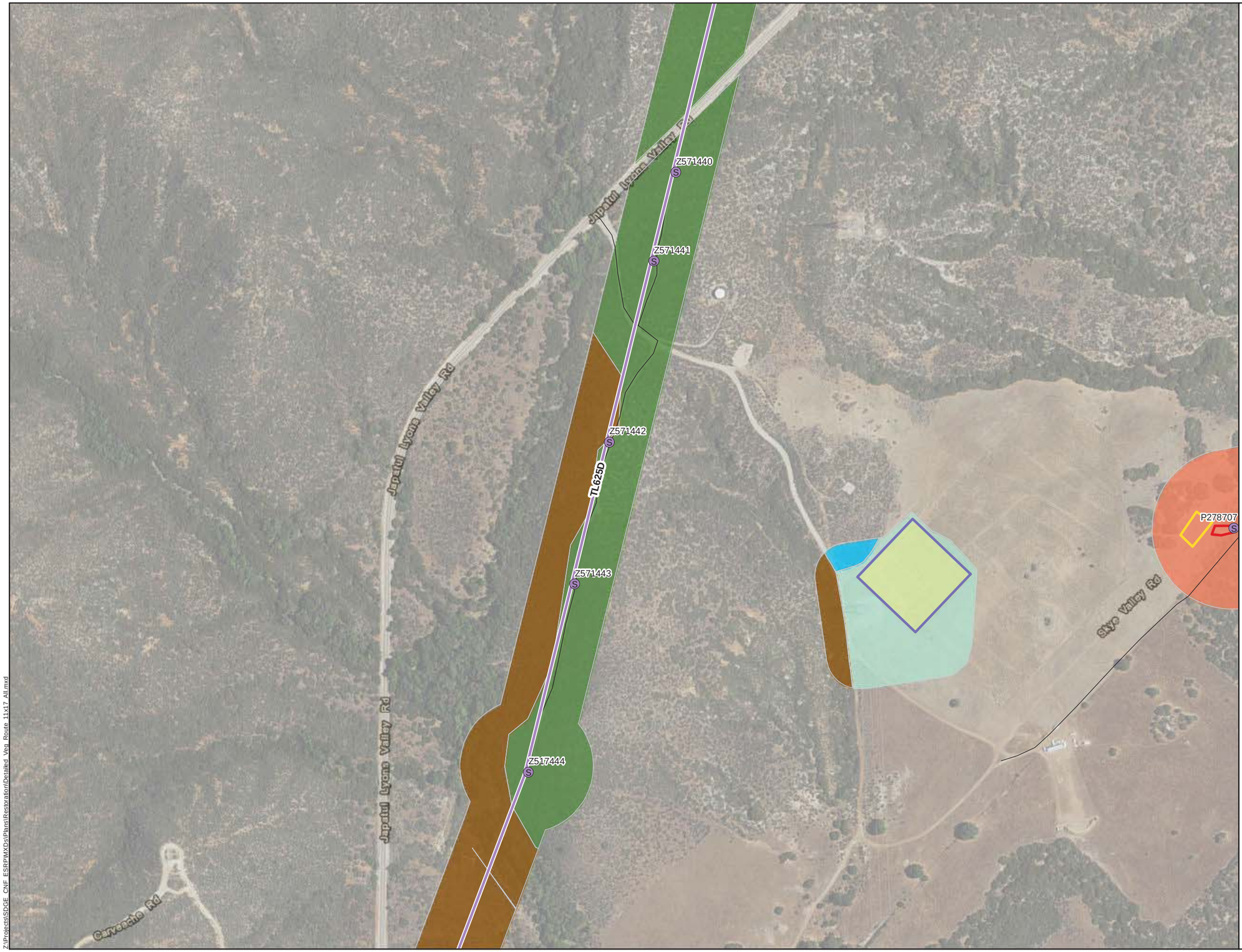
Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 7 of 14

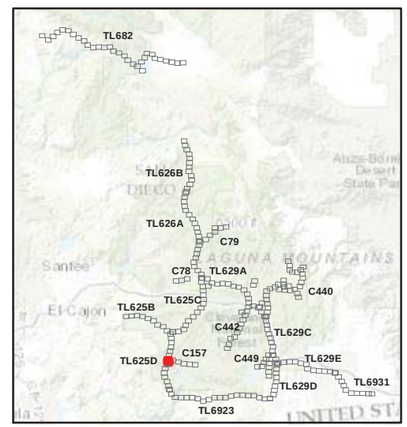
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging Area
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Freshwater Seep/Open Water
- Mixed Oak Woodland
- Non-Native Grassland
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral





SDGE A Sempra Energy utility

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Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 8 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

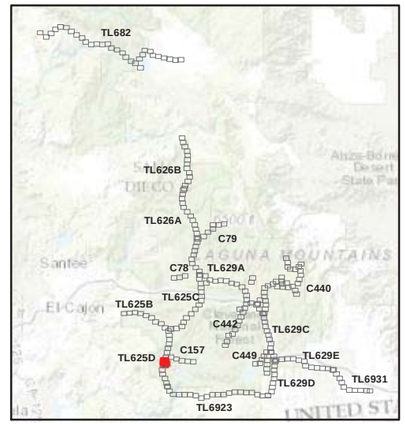
Wood-to-Steel Replacement

Access Road

Vegetation

Chamise Chaparral

Mixed Oak Woodland



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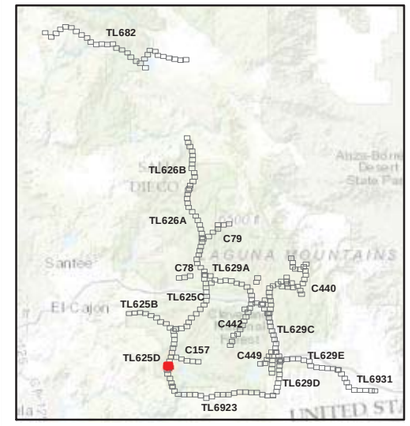
Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 9 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Mixed Oak Woodland
- Non-Native Grassland
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

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Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 10 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

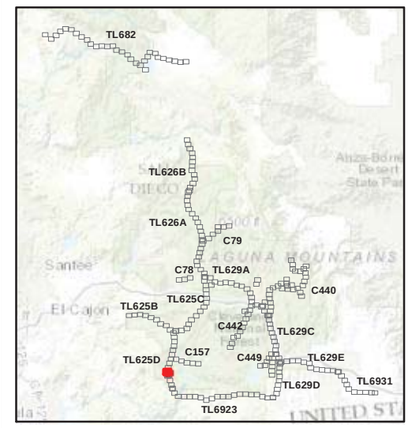
Access Road

Vegetation

Chamise Chaparral

Mixed Oak Woodland

Southern Mixed Chaparral



SDGE A Sempra Energy utility

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6/17/2016

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Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 11 of 14

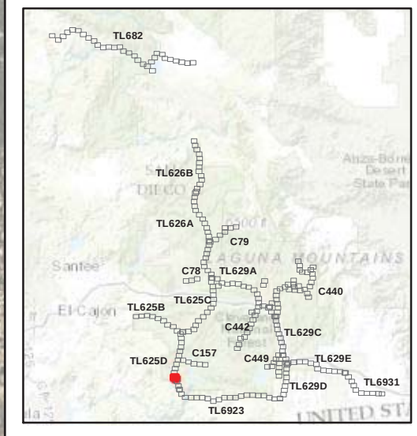
Cleveland National Forest
Power Line Replacement Projects

Z571459
Z571460
Z571461
Z571462
Z571463
TL625D
Barber Mtn
Barber Mtn
Barber Mtn
Barber Mtn

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Southern Mixed Chaparral



SDGE a Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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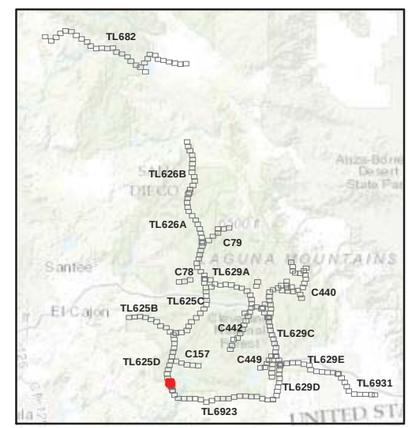
Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 12 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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6/17/2016

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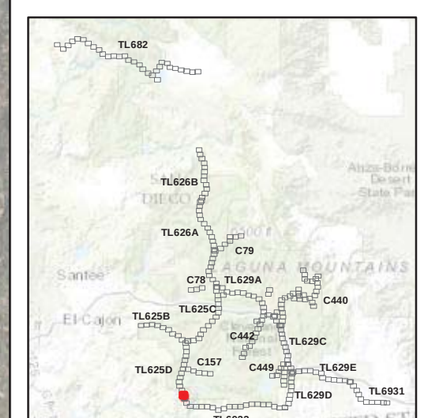
Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 13 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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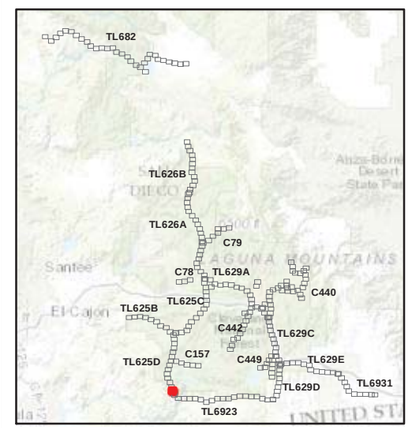
Attachment A-12:
TL625D
Components and Vegetation Mapping
Map 14 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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ATTACHMENT A-13: TL629A COMPONENTS AND VEGETATION MAPPING

Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 1 of 16

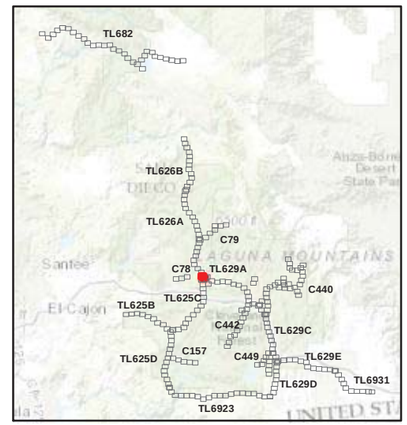
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel 12 kV Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel 12 kV
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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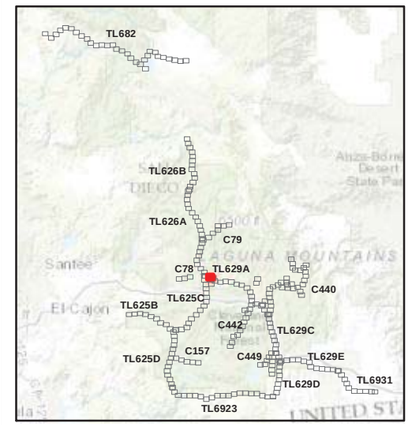
Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 2 of 16

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



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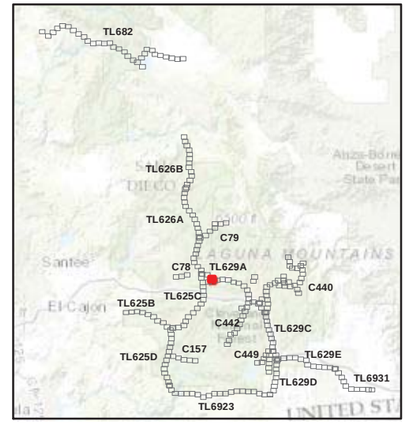
Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 3 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Native Grassland
- Non-Native Grassland
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



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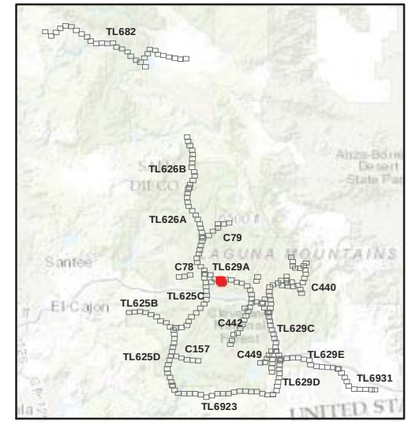
Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 4 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Pastureland/Cultivated Agriculture
- Road
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



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Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 5 of 16

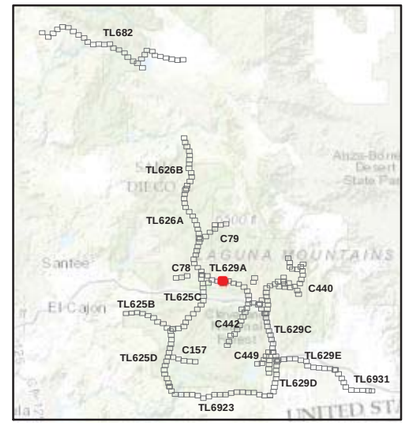
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping





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Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 6 of 16

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

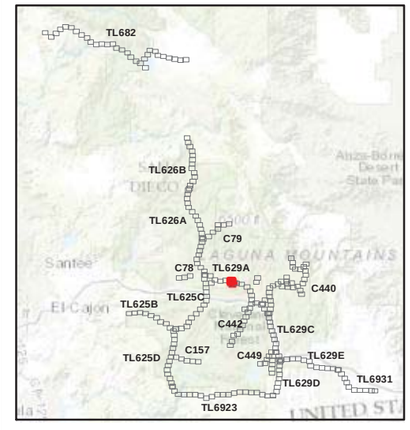
Access Road

Vegetation

Southern Mixed Chaparral

Southern Riparian Forest

Urban and Developed/Ornamental Landscaping



SDGE Sempra Energy utility

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Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 7 of 16

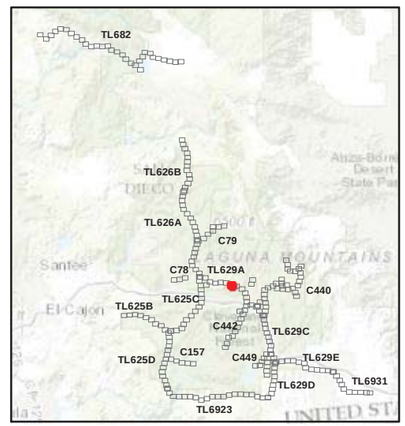
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 8 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Vegetation

- Mixed Oak Woodland
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 9 of 16

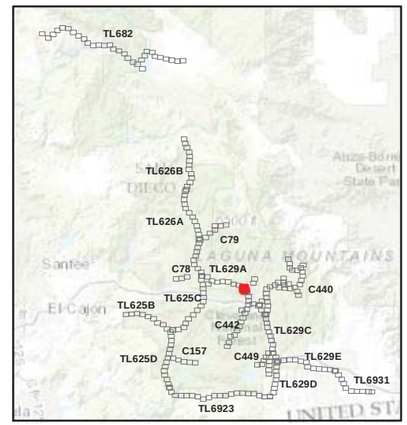
Cleveland National Forest
Power Line Replacement Projects

Z173112
Z173113
Z173114
Z173115
Z173116
Z173117
TL629A
Z117118
Z173119
Z173120
Z173121
Z173122
Z173123
Z173124
Z173125
173126
Z173127
Old Highway 80

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Access Road

Vegetation

Mixed Oak Woodland
Southern Mixed Chaparral



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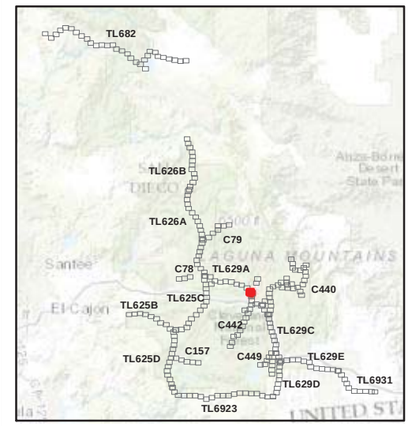
Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 10 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



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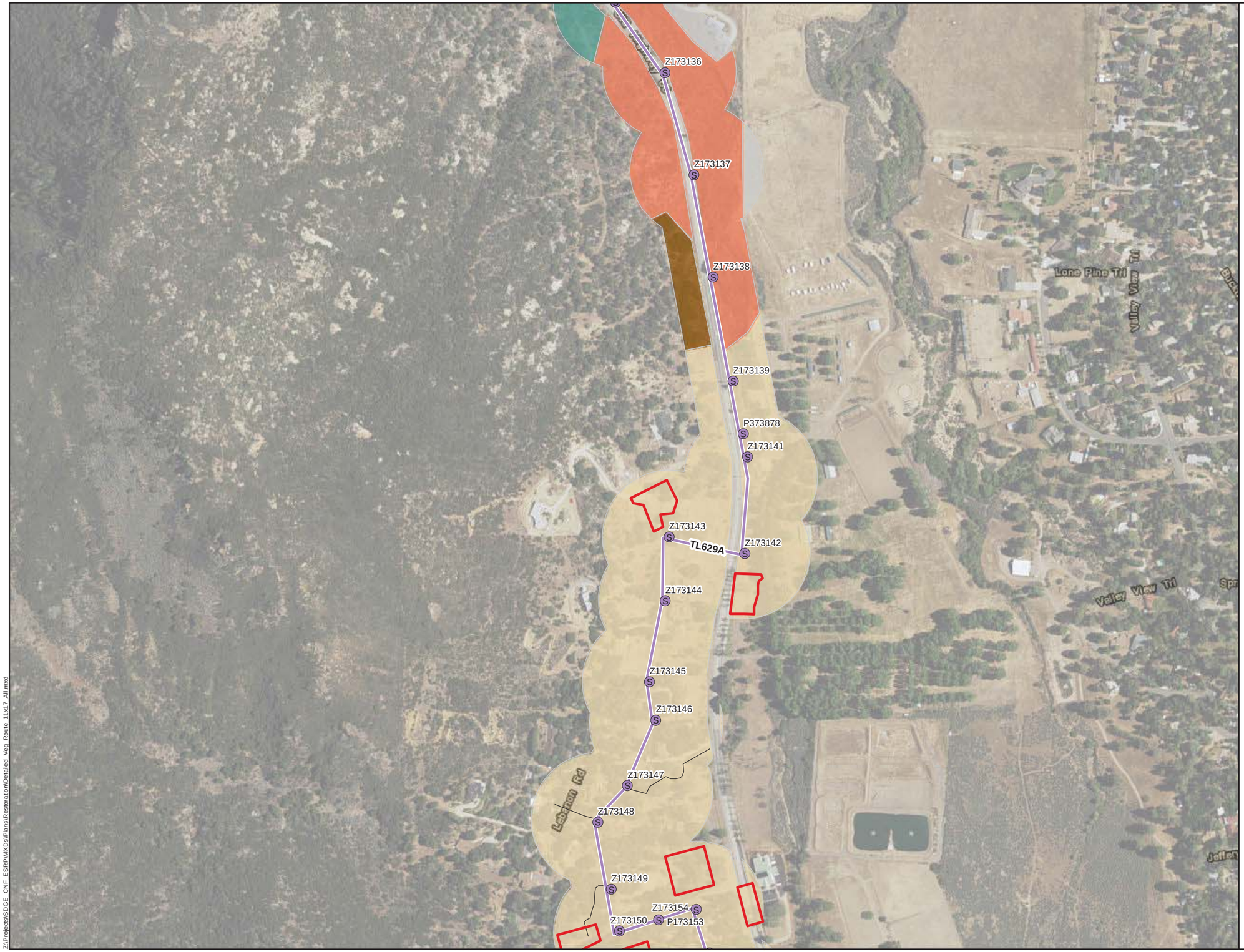
Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 11 of 16

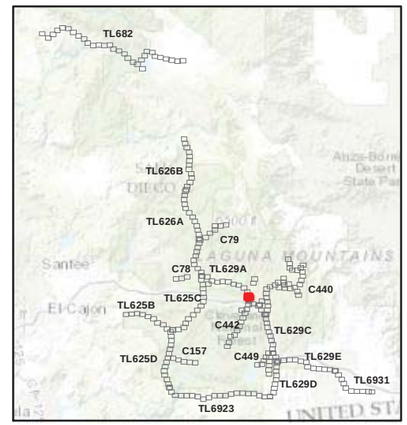
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



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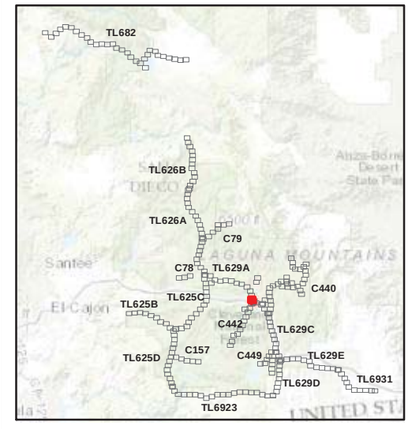
Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 12 of 16

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Stringing Site
Access Road

Vegetation

Diegan Coastal Sage Scrub
Road
Southern Mixed Chaparral
Urban and Developed/Ornamental Landscaping



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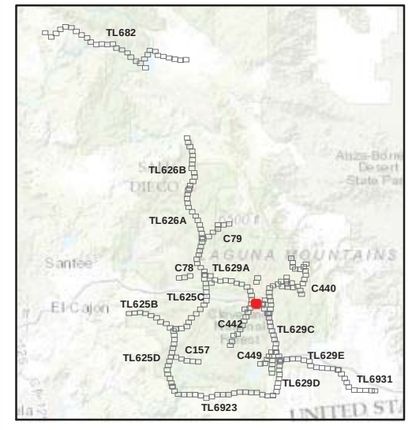
Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 13 of 16

Cleveland National Forest
Power Line Replacement Projects





- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping

SDGE A Sempra Energy utility

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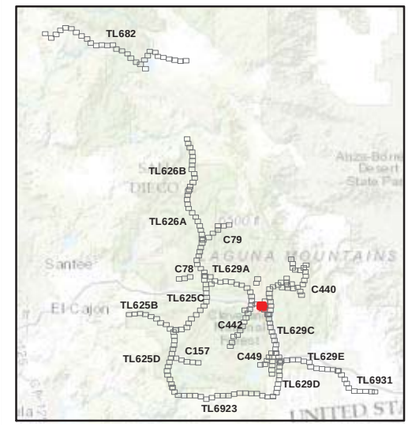
Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 14 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Disturbed (Ruderal/Barren)
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

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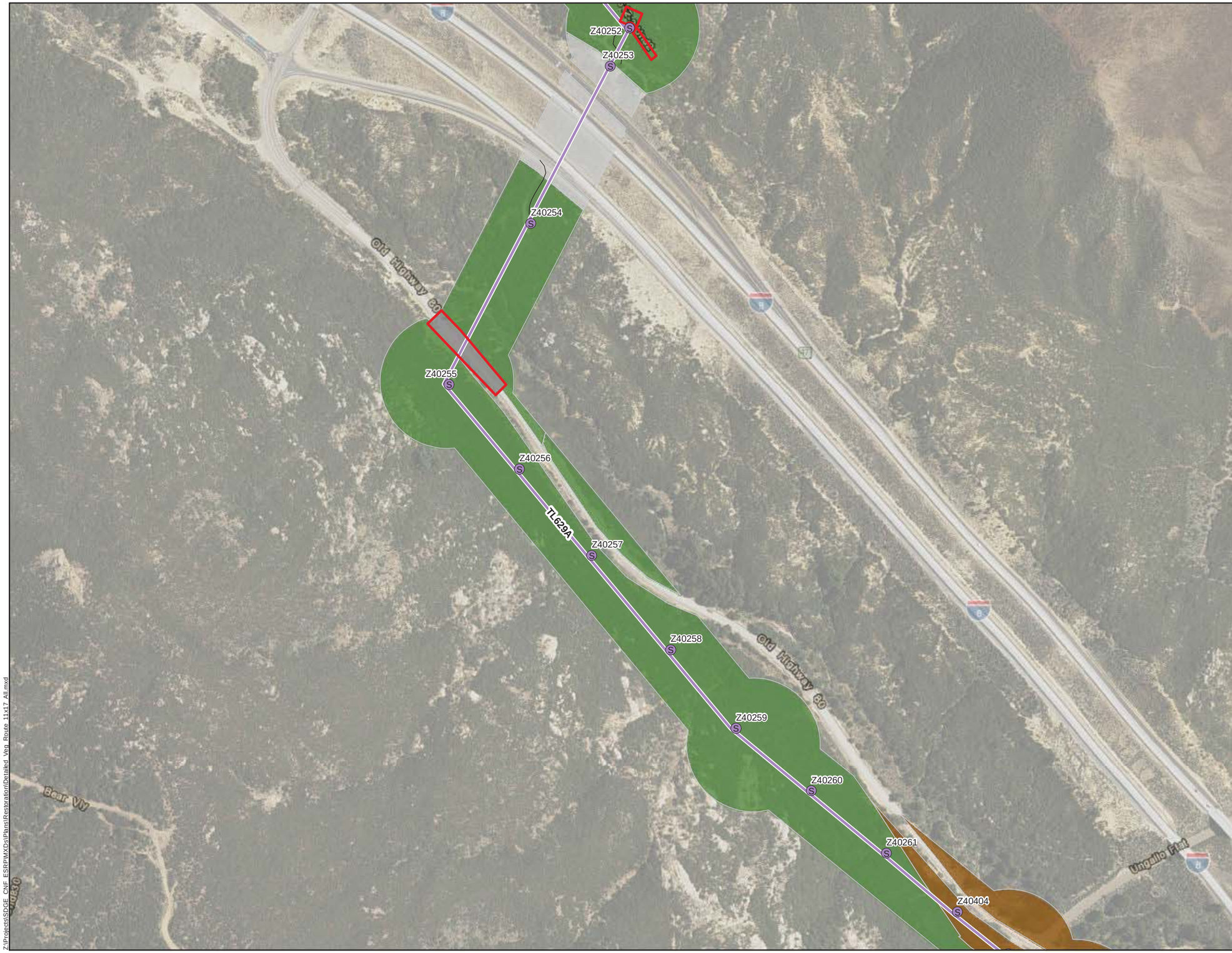


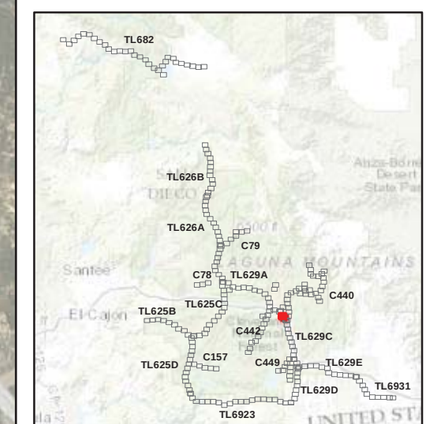
Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 15 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Road



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Attachment A-13:
TL629A
Components and Vegetation Mapping
Map 16 of 16

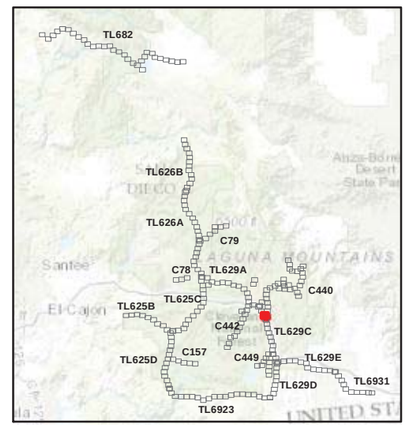
Cleveland National Forest
Power Line Replacement Projects



Vegetation

- Chamise Chaparral
- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Road
- Urban and Developed/Ornamental Landscaping

- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road



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ATTACHMENT A-14: TL626B COMPONENTS AND VEGETATION MAPPING

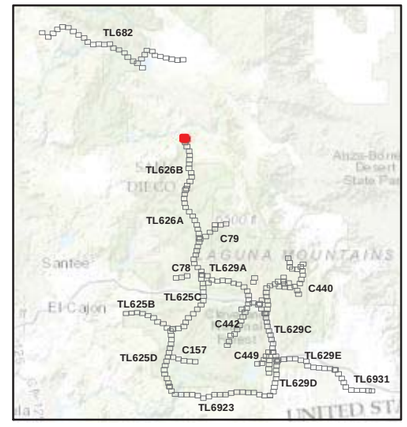
Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 1 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Oak Savanna
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 2 of 13

Cleveland National Forest
Power Line Replacement Projects

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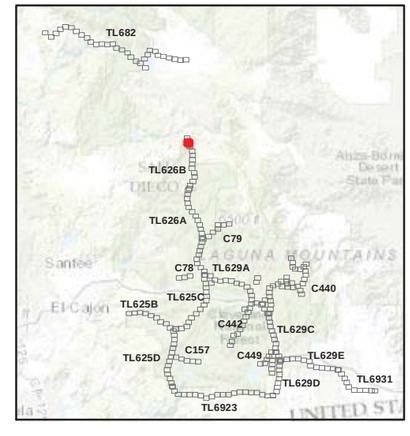
Z213750
Z213749
Z213748
Z213747
TL626B
Z213746
Z213745
Z213744
Z213743
Z213742
Z213741
Z213740
Julian Rd
78
79

- Removal Pole
- Removal
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Oak Savanna
- Road
- Southern Mixed Chaparral



SDGE A Sempra Energy utility
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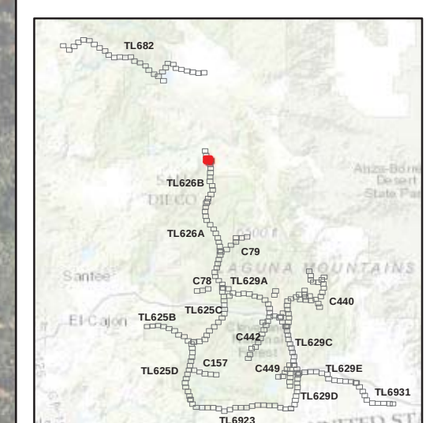
Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 3 of 13

Cleveland National Forest
Power Line Replacement Projects

Removal Pole
Removal
Stringing Site
Access Road

Vegetation

Oak Savanna
Road
Southern Mixed Chaparral



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INSIGNIA ENVIRONMENTAL

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Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 4 of 13

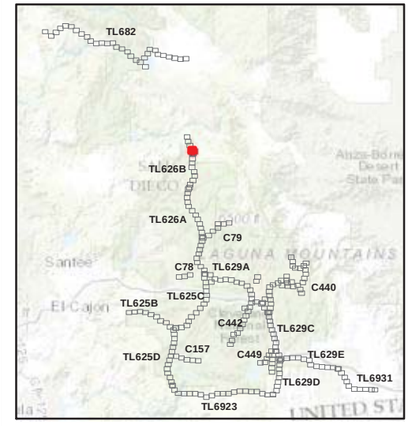
Cleveland National Forest
Power Line Replacement Projects

Z213734
Z213733
Z213732
Z213731
Z213730
TL626B
Z213729
Z213728
Z213727
Z213726
Z213725
Hostetter Ranch Rd

- Removal Pole
- Removal
- Access Road

Vegetation

- Non-Native Grassland
- Oak Savanna



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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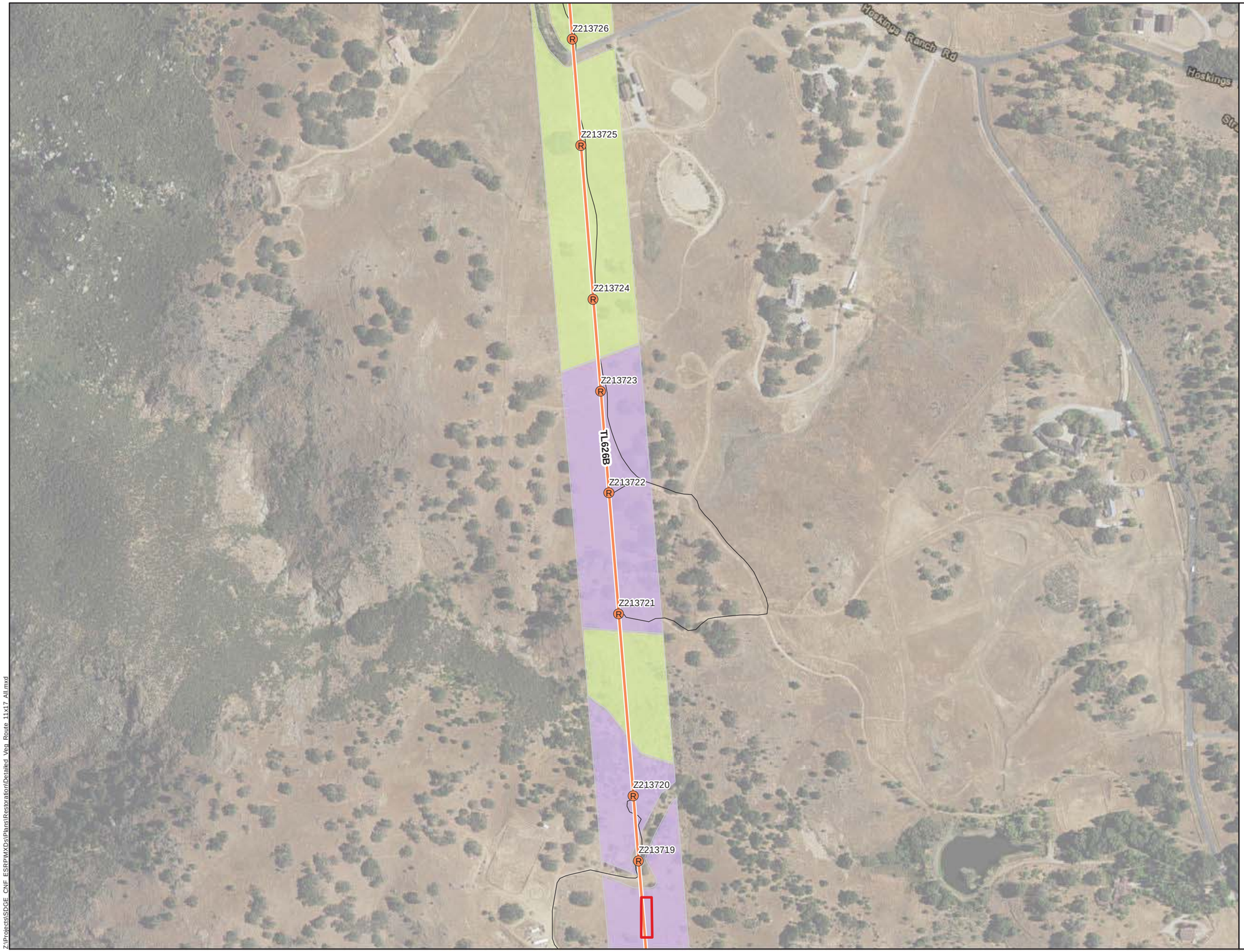


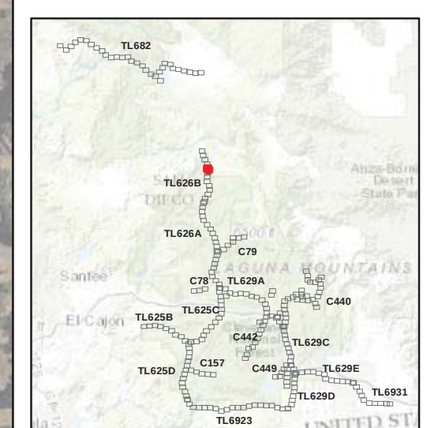
Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 5 of 13

Cleveland National Forest
Power Line Replacement Projects

Removal Pole
Removal
Stringing Site
Access Road

Vegetation

Disturbed (Ruderal/Barren)
Non-Native Grassland
Oak Savanna



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Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 6 of 13

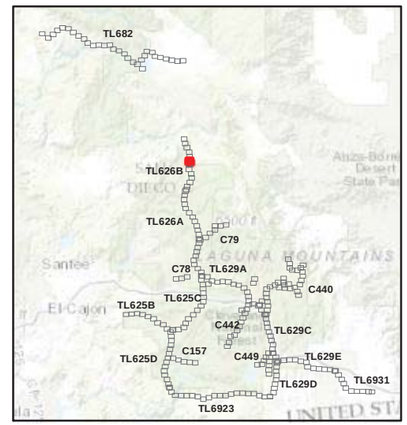
Cleveland National Forest
Power Line Replacement Projects

Z213720
Z213719
Z213718
Z213717
Z213716
Z213715
Z213714
Z213713
Z213712
Z213711
Z213710
TL626B
Sunset Trl
Daley Fiat Rd

- Removal Pole
- Removal
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Non-Native Grassland
- Oak Savanna



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Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 7 of 13

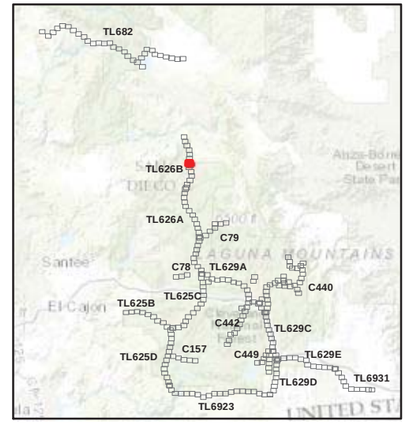
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Access Road

Vegetation

- Oak Savanna



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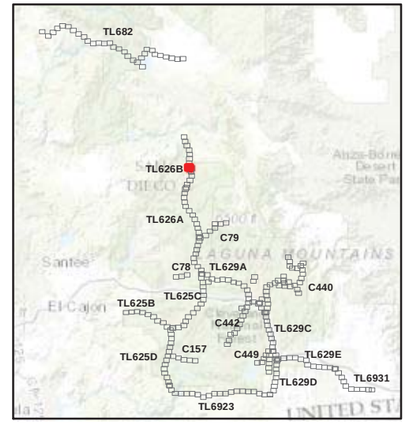
Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 8 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Non-Native Grassland
- Oak Savanna
- Urban and Developed/Ornamental Landscaping



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Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 9 of 13

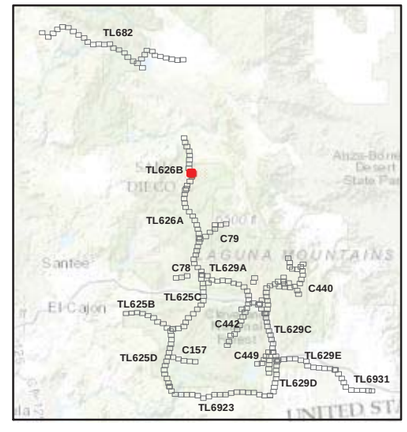
Cleveland National Forest
Power Line Replacement Projects

Z213693
Z213692
Z213691
Z213690
Z213689
Z213688
TL626B
Z213687
Z213686
Z213685
Z213684
Z213683
Eagle Rd

- Removal Pole
- Removal
- Stringing Site
- Access Road

Vegetation

- Freshwater Seep/Open Water
- Mixed Oak Woodland
- Non-Native Grassland
- Road
- Urban and Developed/Ornamental Landscaping



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Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 10 of 13

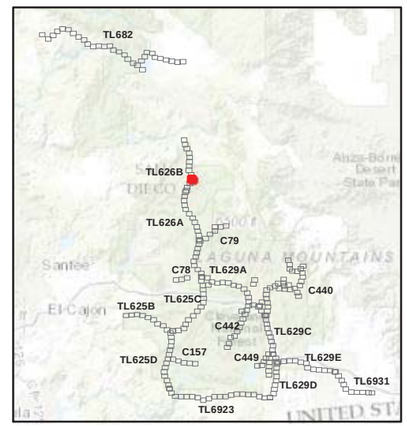
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Freshwater Seep/Open Water
- Mixed Oak Woodland
- Non-Native Grassland
- Road



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Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 11 of 13

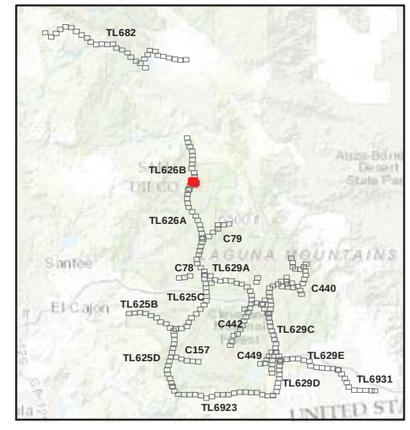
Cleveland National Forest
Power Line Replacement Projects

Z213675
Z213674
Z213673
Z213672
Z213671
Z213670
Z213669
Z213668
Z213667
Z213666
TL626B
Eagle Peak Rd
Eagle Peak Rd
Eagle Peak Rd

- Removal Pole
- Removal
- Access Road

Vegetation

- Mixed Oak Woodland
- Non-Native Grassland



SDGE A Sempra Energy utility

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Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 12 of 13

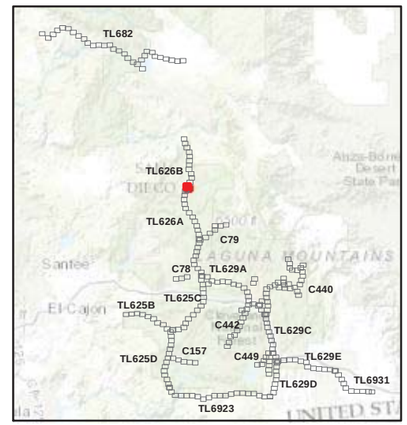
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Non-Native Grassland
- Road



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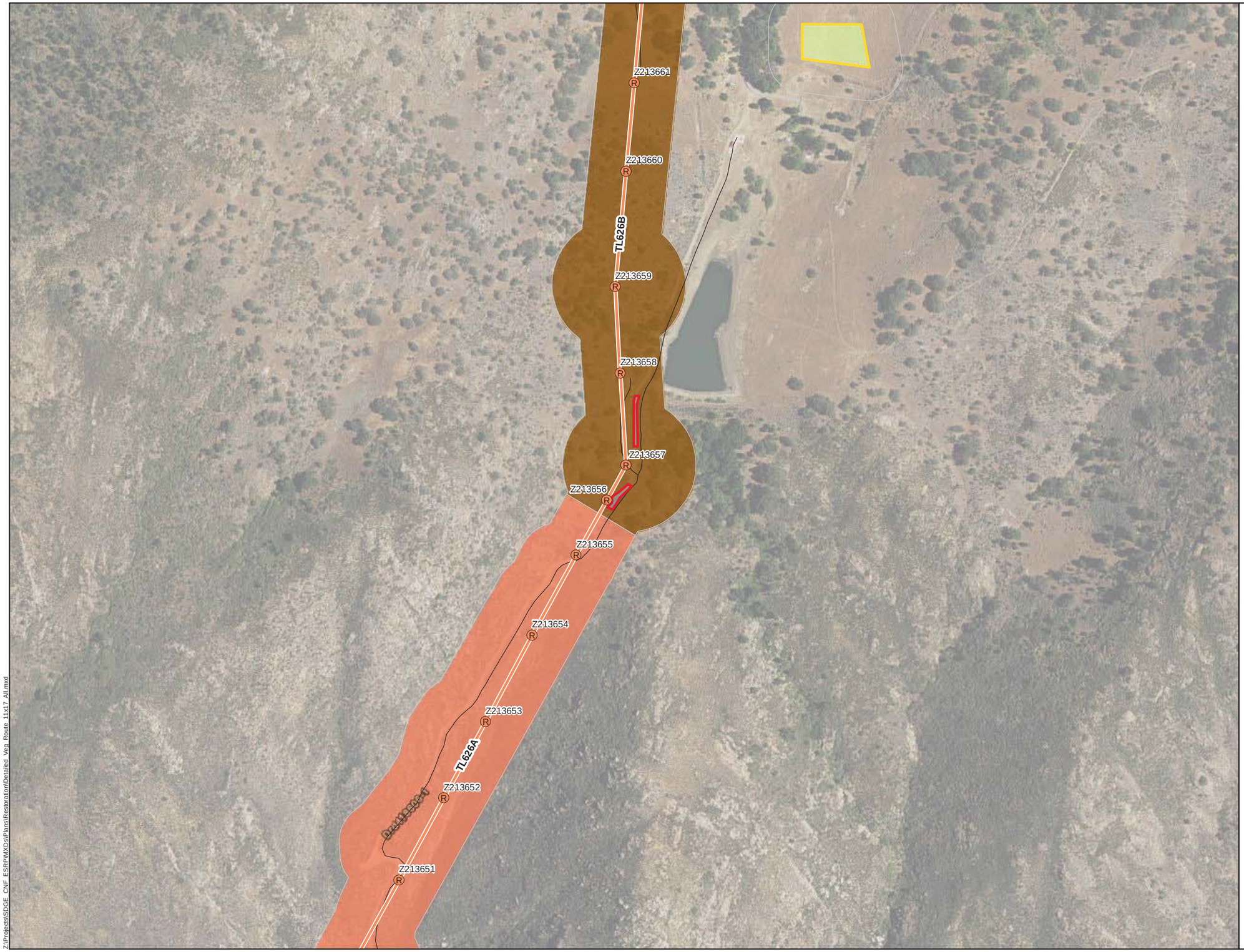
Attachment A-14:
TL626B
Components and Vegetation Mapping
Map 13 of 13

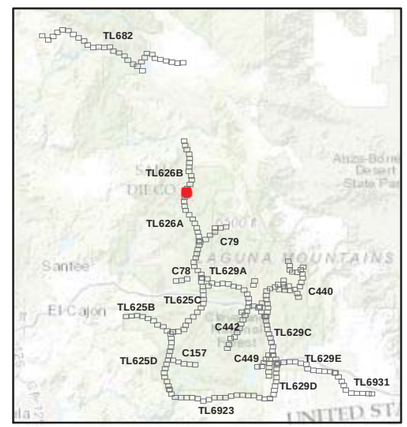
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Mixed Oak Woodland
- Non-Native Grassland
- Road
- Southern Mixed Chaparral



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ATTACHMENT A-15: TL629C COMPONENTS AND VEGETATION MAPPING

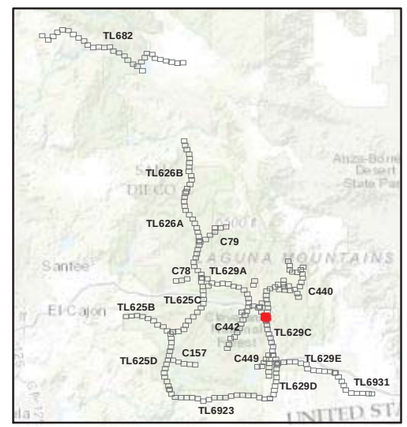
Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 1 of 12

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Undergrounding
Wood-to-Steel Replacement
Stringing Site
Access Road

Vegetation

Chamise Chaparral
Diegan Coastal Sage Scrub
Disturbed (Ruderal/Barren)
Mixed Oak Woodland
Road
Urban and Developed/Ornamental Landscaping



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Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 2 of 12

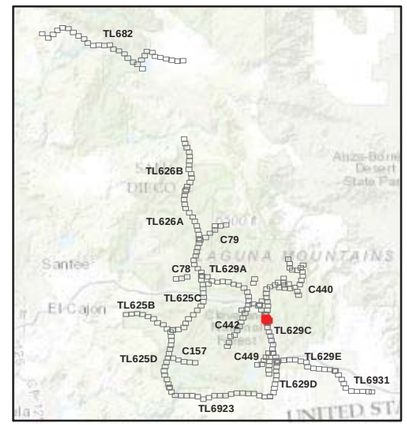
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest



SDGE A Sempra Energy utility

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Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 3 of 12

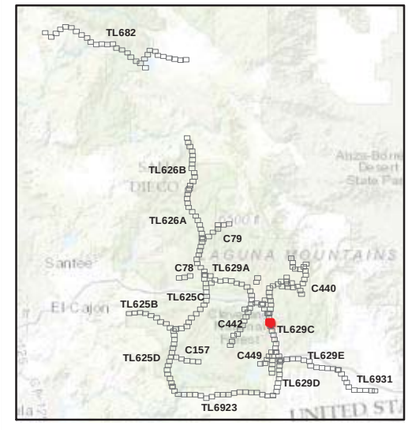
Cleveland National Forest
Power Line Replacement Projects

Z40502
Z40503
Z40504
Z40505
Z40506
Z40507
Z40508
Z40509
Z40510
TL629C
Old Highway 80

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest



SDGE a Sempra Energy utility
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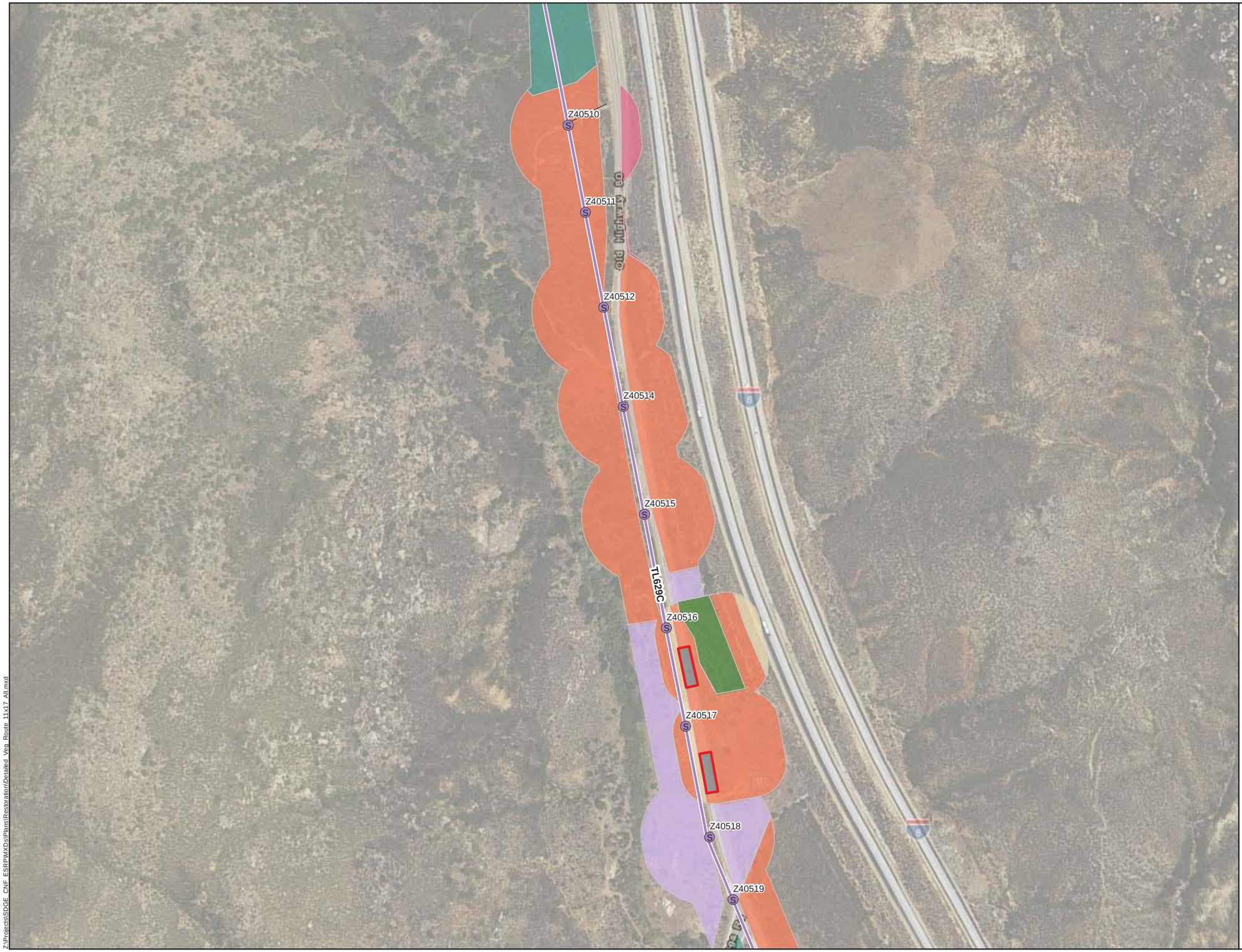


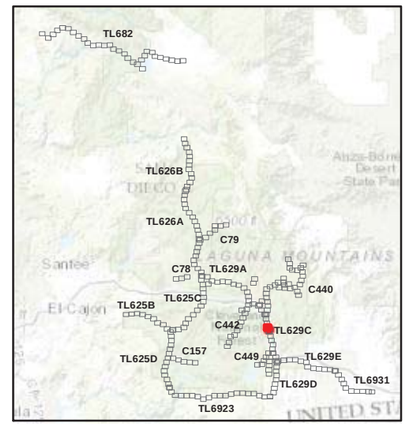
Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 4 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Oak Savanna
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 5 of 12

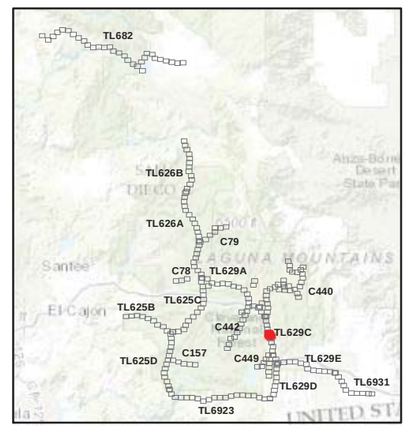
Cleveland National Forest
Power Line Replacement Projects

Z40518
Z40519
Z40520
Z40521
Z40522
Z40523
Z40524
Z40525
Z40526
TL629C
Old Buckman Springs Rd
Old Highway 80
Und841
Und842
Und843
Und844

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Oak Savanna
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility
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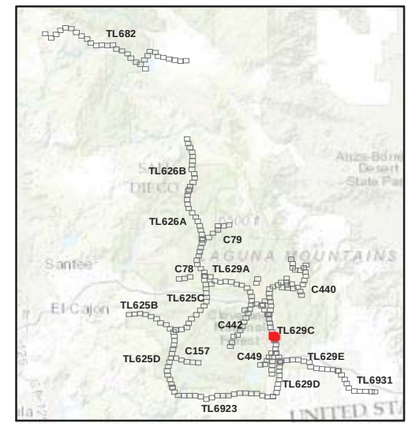
Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 6 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Oak Savanna
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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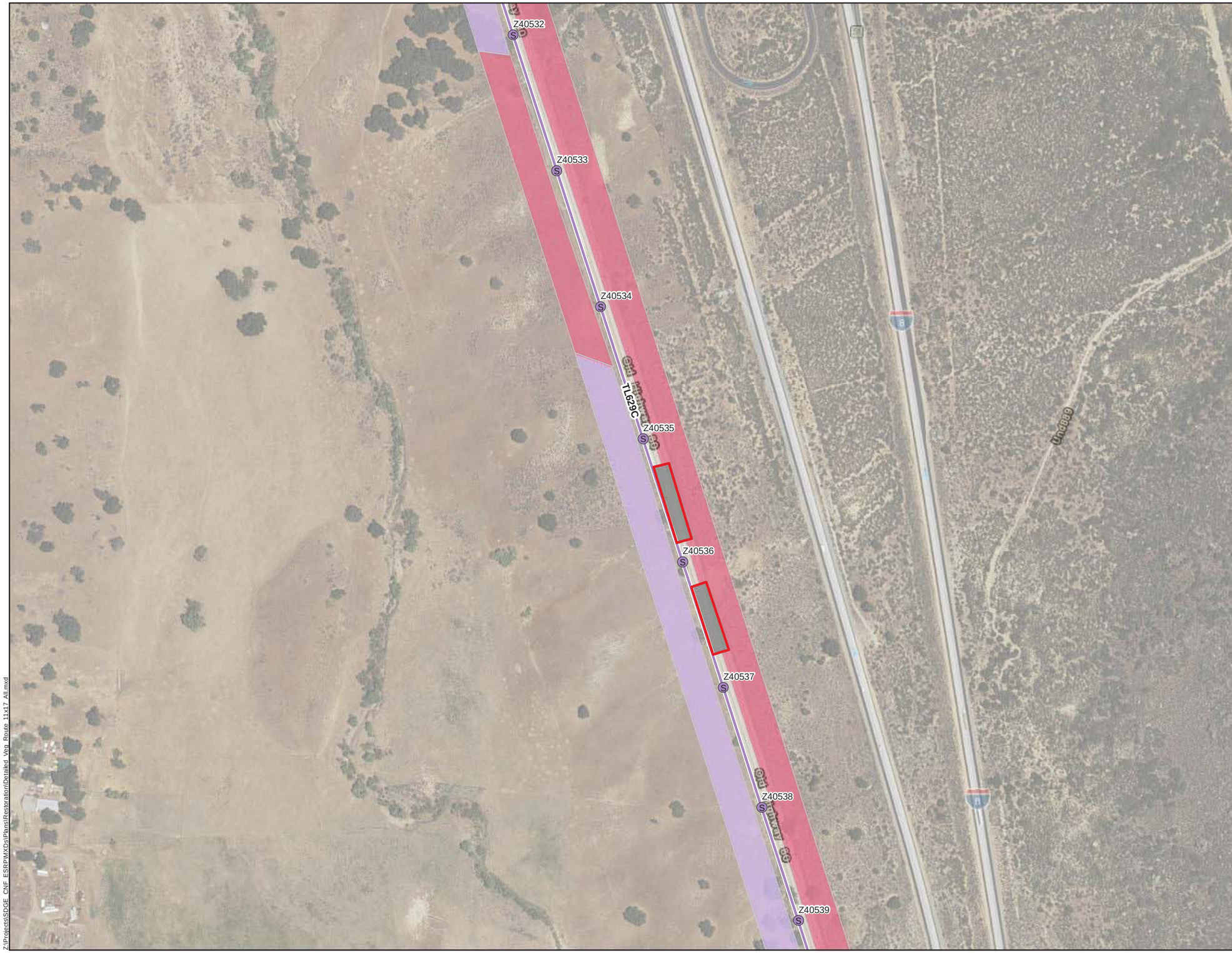


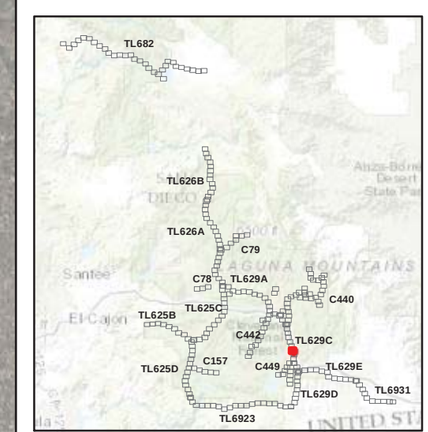
Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 7 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Oak Savanna
- Road



SDGE A Sempra Energy utility

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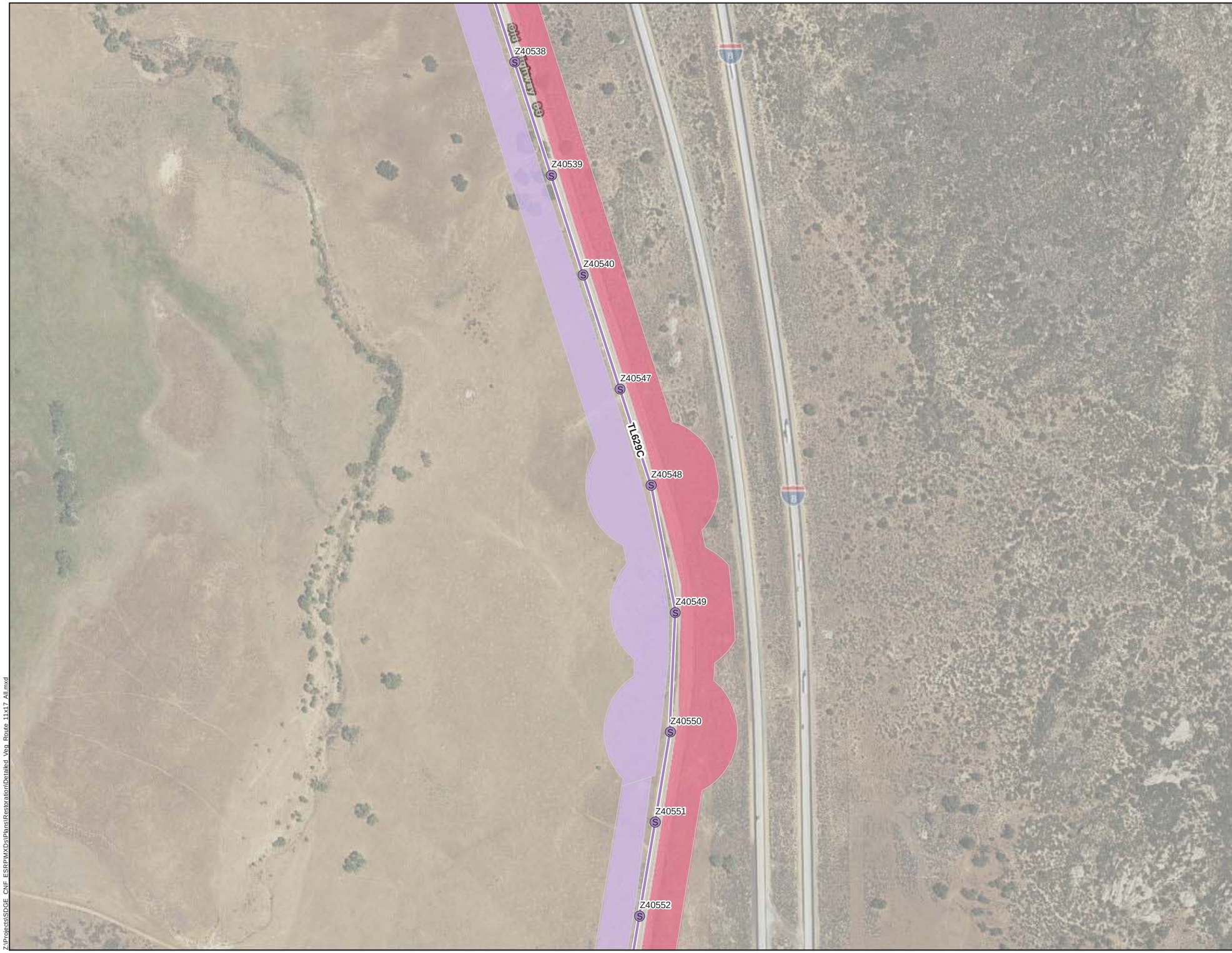


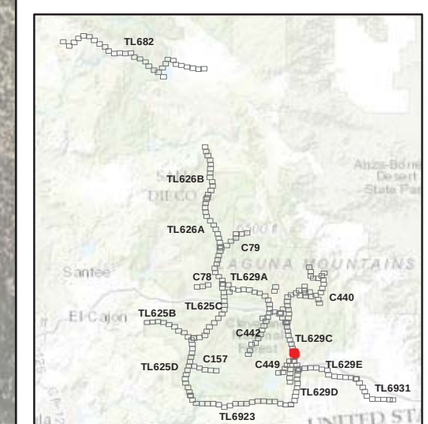
Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 8 of 12

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Access Road

Vegetation

Diegan Coastal Sage Scrub
Disturbed (Ruderal/Barren)
Oak Savanna



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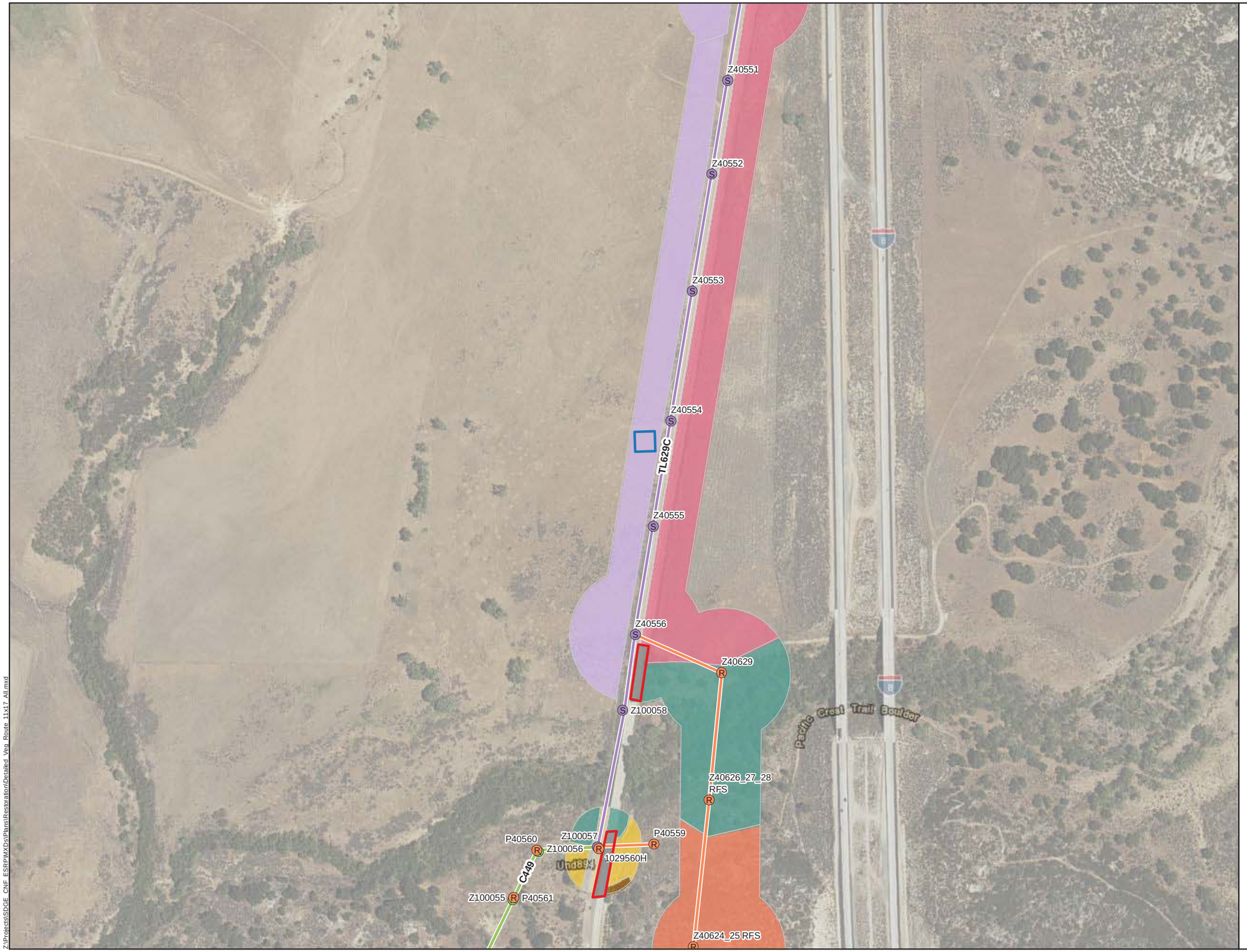
Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 9 of 12

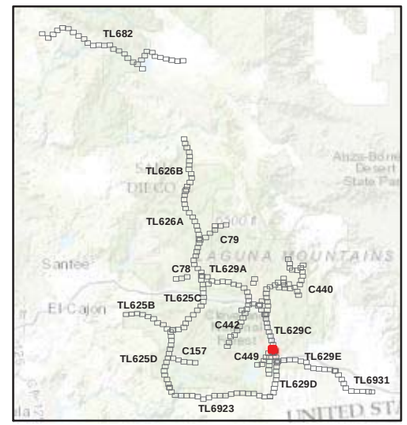
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Fly Yard
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Oak Savanna
- Road
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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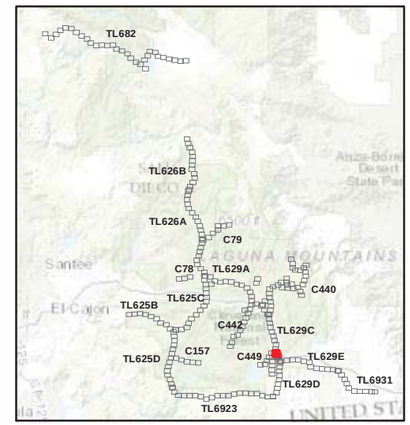
Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 10 of 12

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Road
- Semi-Desert Chaparral
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



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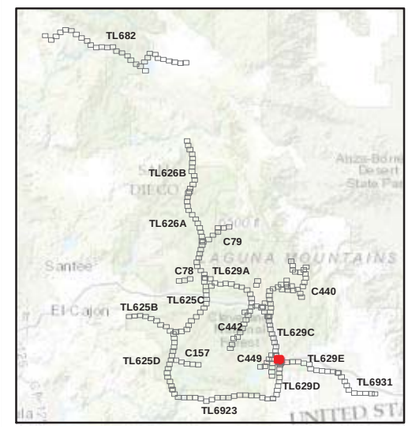
Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 11 of 12

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Oak Savanna
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

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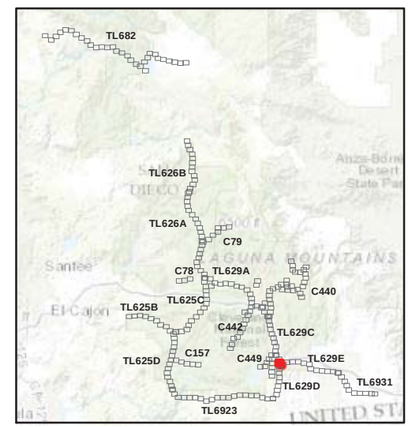
Attachment A-15:
TL629C
Components and Vegetation Mapping
Map 12 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Fly Yard
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Non-Native Grassland
- Oak Savanna
- Pastureland/Cultivated Agriculture
- Semi-Desert Chaparral
- Southern Mixed Chaparral



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ATTACHMENT A-16: TL629D COMPONENTS AND VEGETATION MAPPING

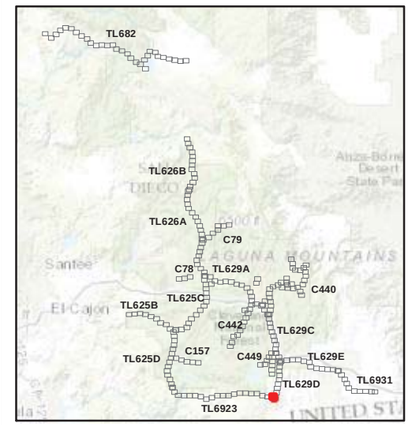
Attachment A-16:
TL629D
Components and Vegetation Mapping
Map 1 of 9

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Staging Area
Stringing Site
Access Road

Vegetation

Chamise Chaparral
Disturbed (Ruderal/Barren)
Non-Native Grassland
Road
Urban and Developed/Ornamental Landscaping



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Attachment A-16:
TL629D
Components and Vegetation Mapping
Map 2 of 9

Cleveland National Forest
Power Line Replacement Projects

Buckman Springs Rd

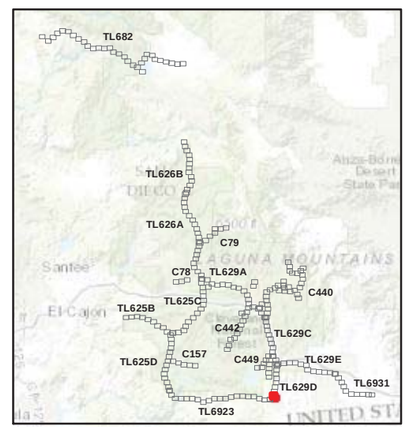
Pine Hills Rd

Z41007
Z41008
Z41009
Z41010
Z41011
Z41012
Z41013
TL629D
Z410014
Z41015
Z41016
Z41017

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Non-Native Grassland
- Road
- Urban and Developed/Ornamental Landscaping



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Hyde P

Z41002

Z41003

Z41004

TL629D

Z41005

Z41006

Z41007

Z41008

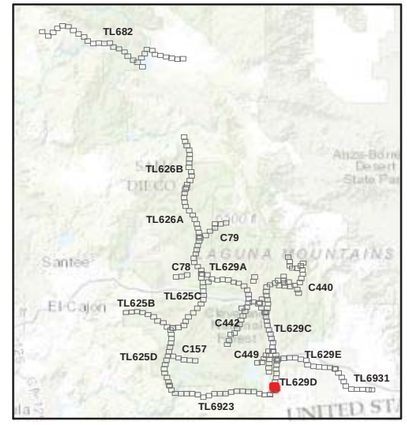
Attachment A-16:
TL629D
Components and Vegetation Mapping
Map 3 of 9

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Chamise Chaparral



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Attachment A-16:
TL629D
Components and Vegetation Mapping
Map 4 of 9

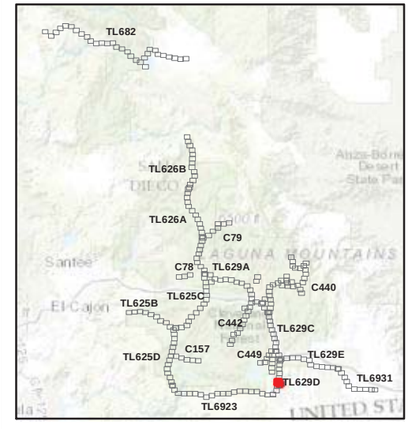
Cleveland National Forest
Power Line Replacement Projects

Z40996
Z40997
Z40998
Z167755
Z40999
Z41000
Z41001
Z41002
TL629D
Cameron Truck Trl
Hyde Park St

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Road



SDGE A Sempra Energy utility
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Attachment A-16:
TL629D
Components and Vegetation Mapping
Map 5 of 9

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

Vegetation

Chamise Chaparral

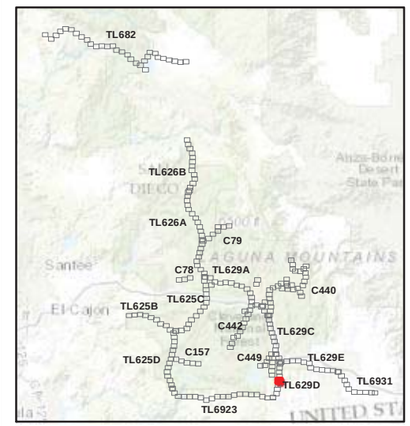
Disturbed (Ruderal/Barren)

Native Grassland

Road

Southern Mixed Chaparral

Urban and Developed/Ornamental Landscaping



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Attachment A-16:
TL629D
Components and Vegetation Mapping
Map 6 of 9

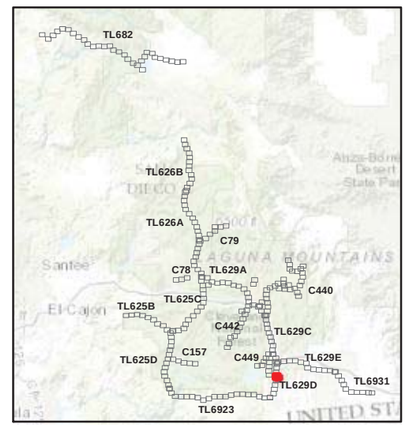
Cleveland National Forest
Power Line Replacement Projects

Z40984
Z40985
Z40986
Z40987
Z40988
Z40989
Z40990
TL629D
Drd4138481

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Native Grassland
- Road
- Southern Mixed Chaparral



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Attachment A-16:
TL629D
Components and Vegetation Mapping
Map 7 of 9

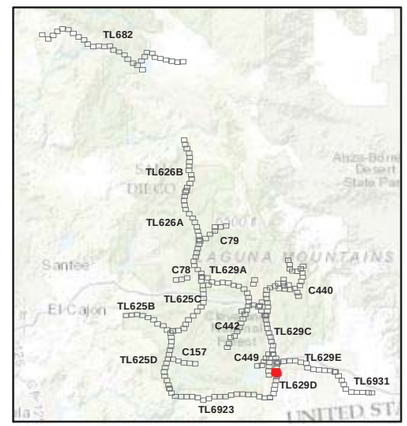
Cleveland National Forest
Power Line Replacement Projects

Z40978
Z193562
Z40979
Z40980
Z40981
Z40982
Z40983
Z40984
TL629D
Cameron Truck Trl
Und545
Sus183
Sus186
Und548
Und549
Sus187

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Oak Savanna
- Southern Mixed Chaparral
- Southern Riparian Forest



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Attachment A-16:
TL629D
Components and Vegetation Mapping
Map 8 of 9

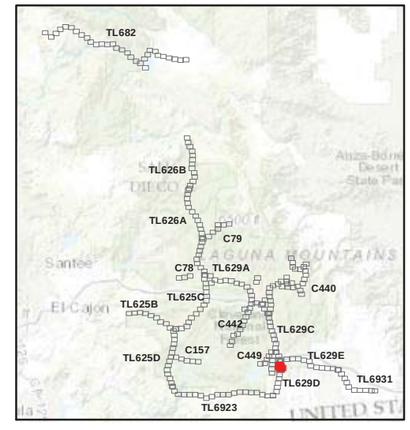
Cleveland National Forest
Power Line Replacement Projects

Z40972
Z40973
Z40974
Z40975
Z40976
TL629D
Z40977
Z193561
Z40978
Z193562
Z40979
Cameron Truck Trl
Und543

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Oak Savanna
- Southern Riparian Forest



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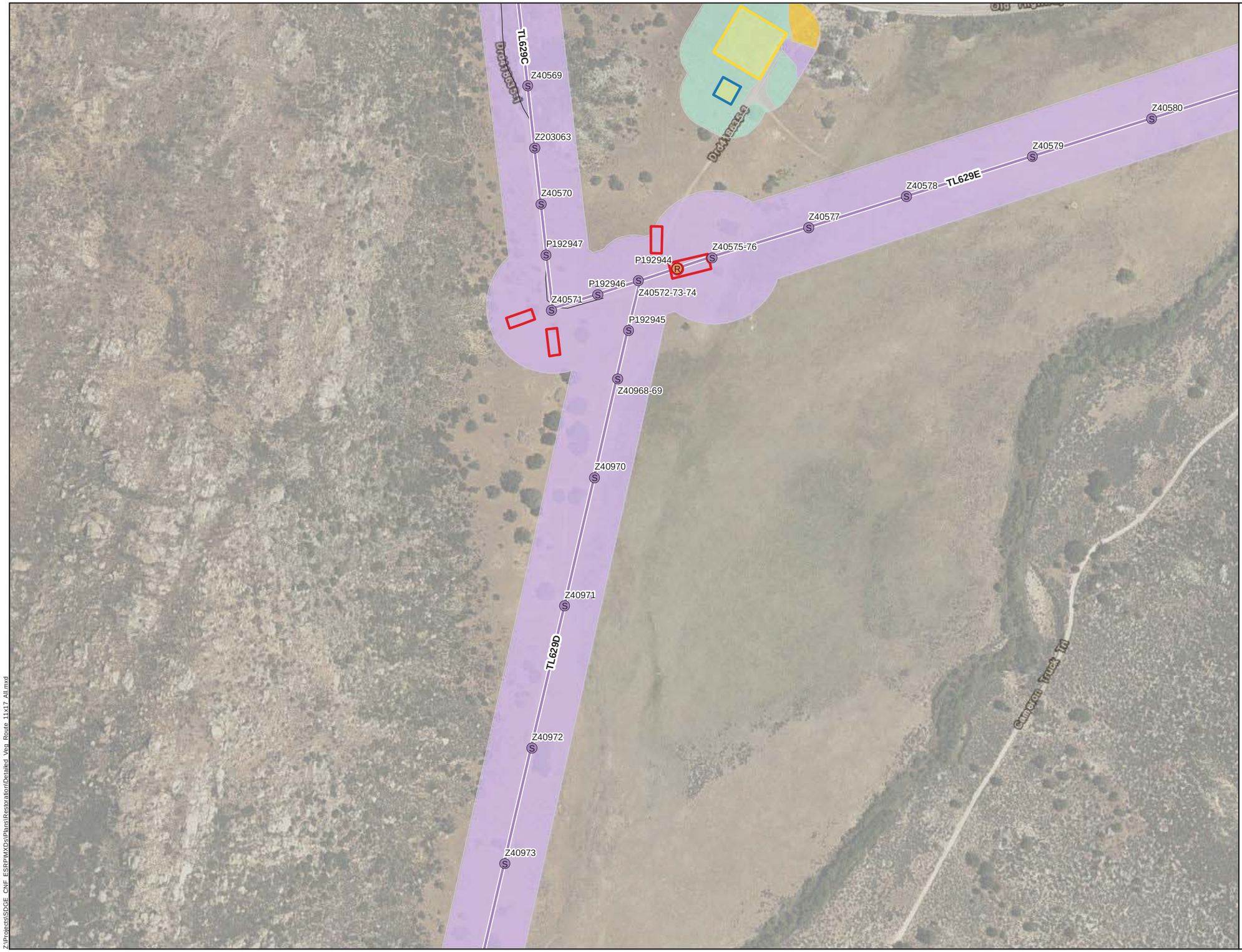
Attachment A-16:
TL629D
Components and Vegetation Mapping
Map 9 of 9

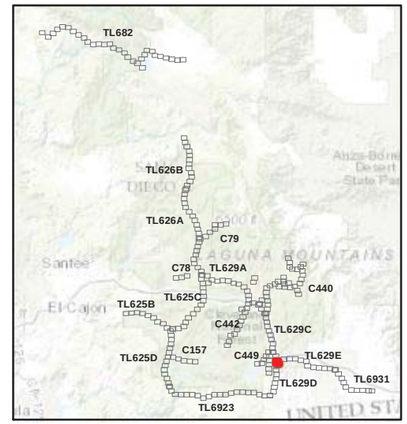
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Fly Yard
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Non-Native Grassland
- Oak Savanna
- Pastureland/Cultivated Agriculture
- Semi-Desert Chaparral



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ATTACHMENT A-17: TL625C COMPONENTS AND VEGETATION MAPPING

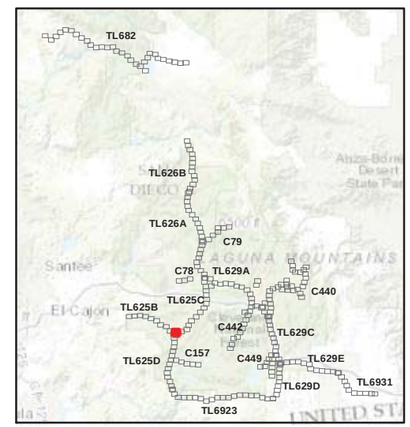
Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 1 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging Area
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Diegan Coastal Sage Scrub
- Disturbed (Ruderal/Barren)
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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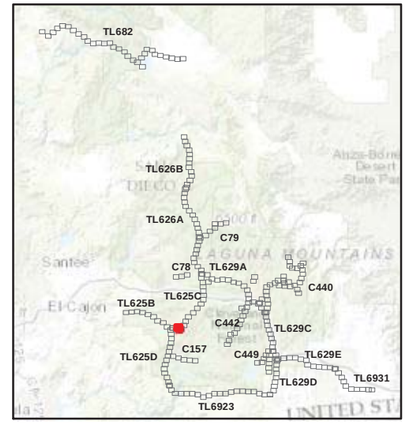
Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 2 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging Area
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Freshwater Seep/Open Water
- Mixed Oak Woodland
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 3 of 16

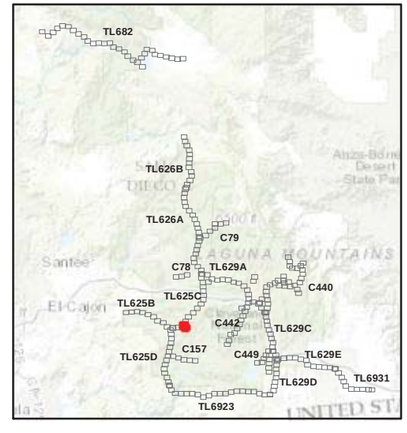
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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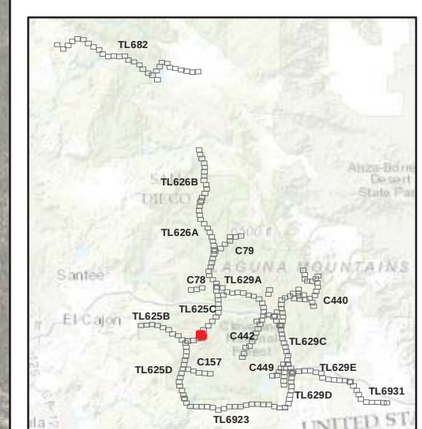
Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 4 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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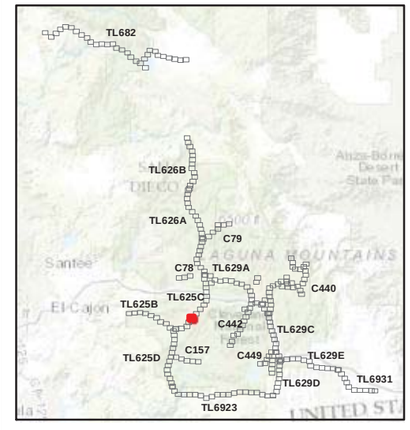
Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 5 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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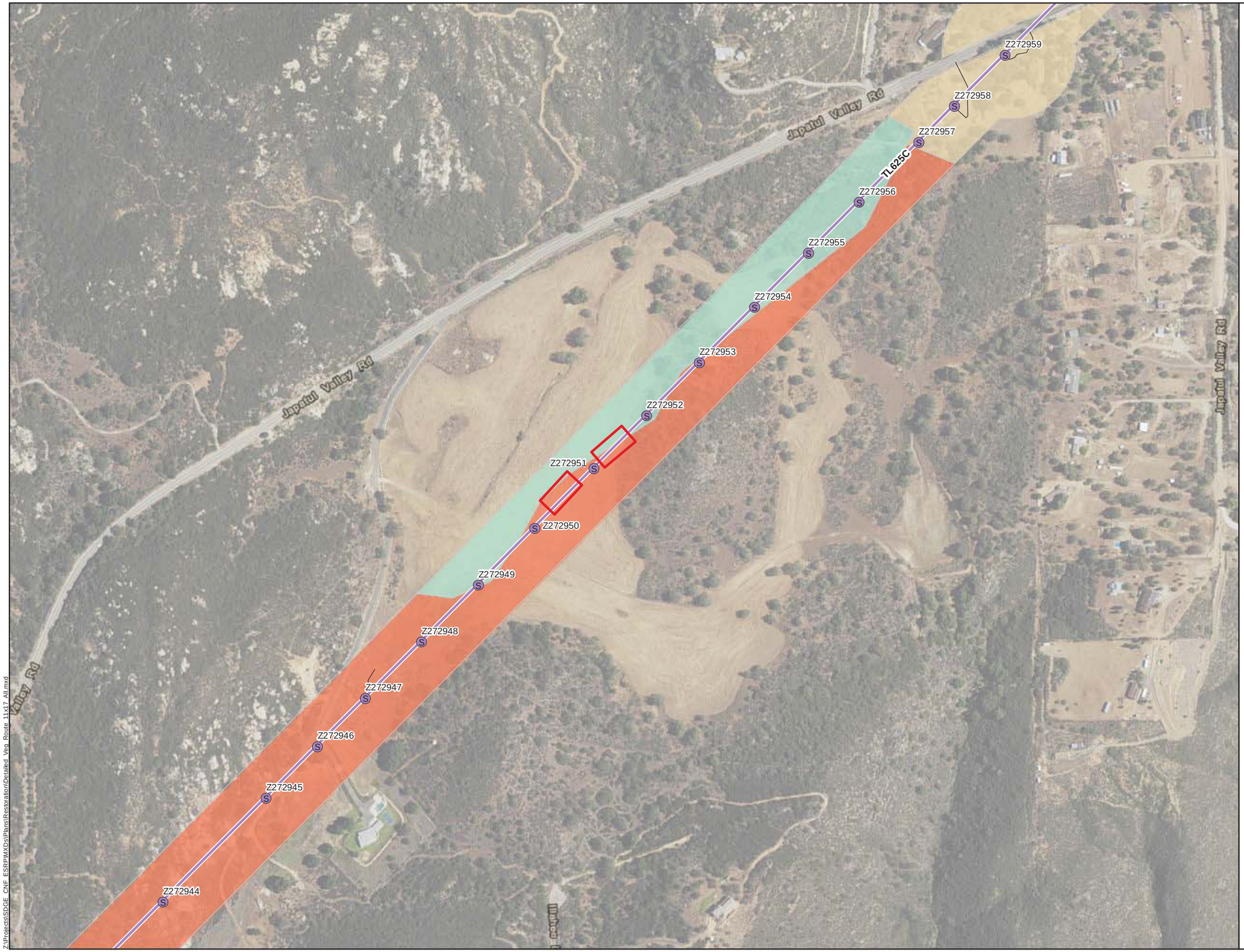
Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 6 of 16

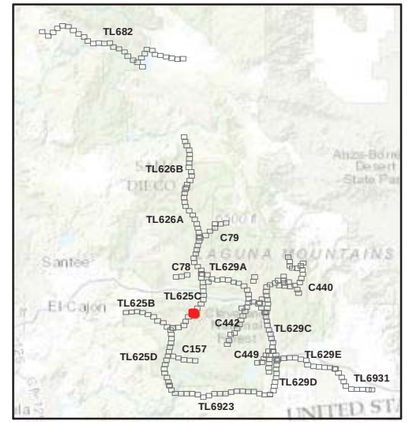
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 7 of 16

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

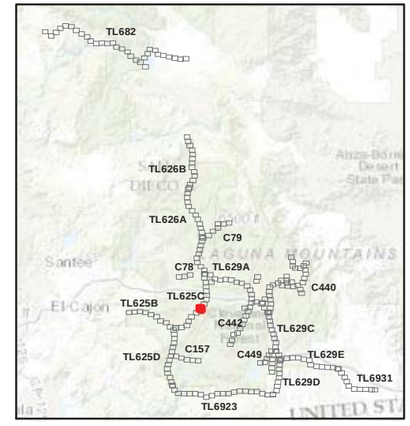
Access Road

Vegetation

Pastureland/Cultivated Agriculture

Southern Mixed Chaparral

Urban and Developed/Ornamental Landscaping



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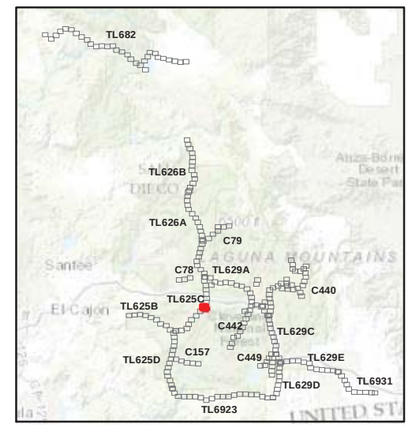
Attachment A-17: TL625C Components and Vegetation Mapping Map 8 of 16

Cleveland National Forest Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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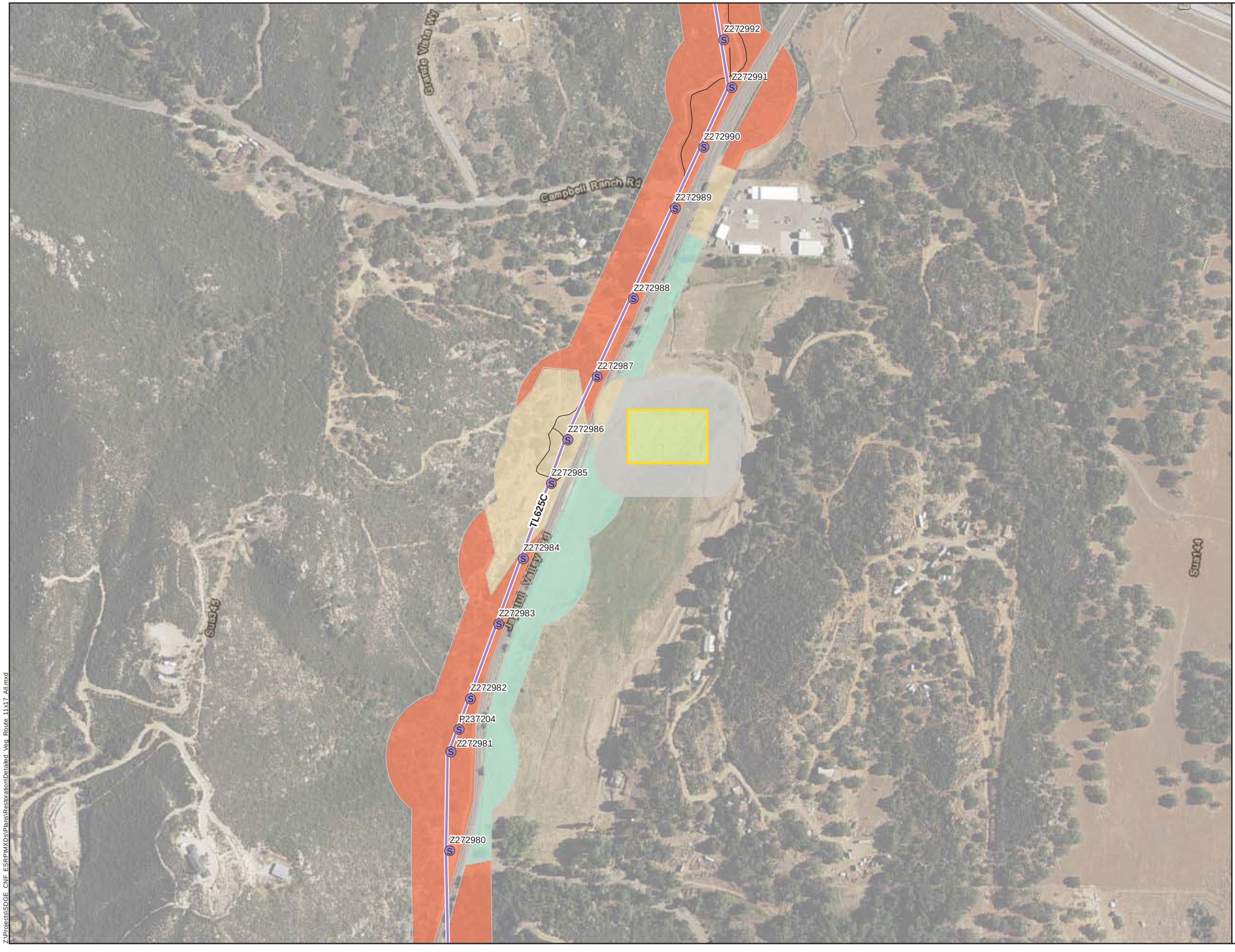
Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 9 of 16

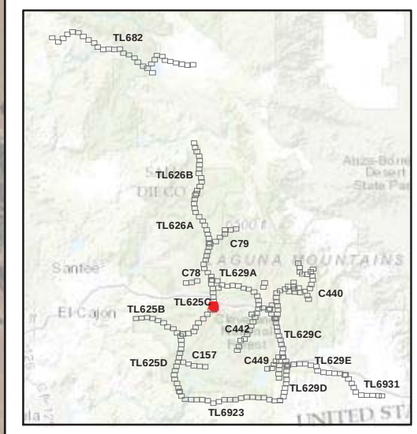
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Non-Native Grassland
- Pastureland/Cultivated Agriculture
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 10 of 16

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

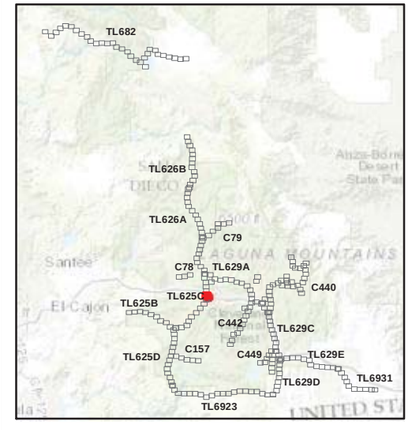
Vegetation

Disturbed (Ruderal/Barren)

Road

Southern Mixed Chaparral

Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 11 of 16

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

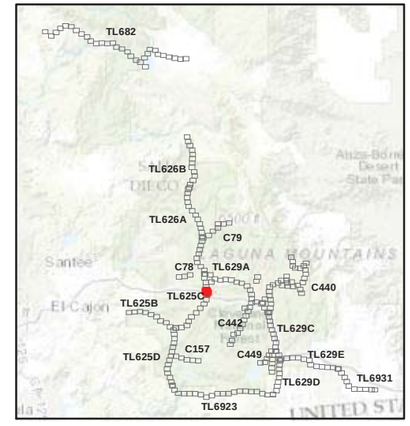
Vegetation

Disturbed (Ruderal/Barren)

Road

Southern Mixed Chaparral

Urban and Developed/Ornamental Landscaping



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 12 of 16

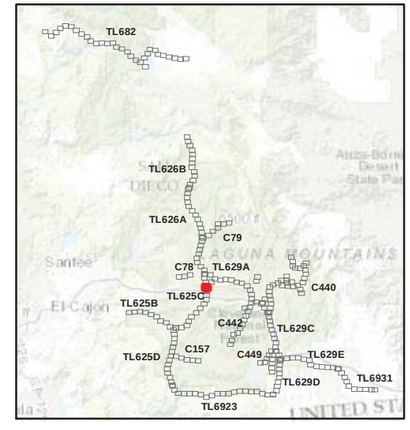
Cleveland National Forest
Power Line Replacement Projects

Z273019
Z273018
TL625C
Z273017
Z273016
Z273015
Z273014
P273013
P273012
P119857
Z273011
Z273010
Willowood Glen Ln
Willowood Glen Ln

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility
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6/17/2016

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Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 13 of 16

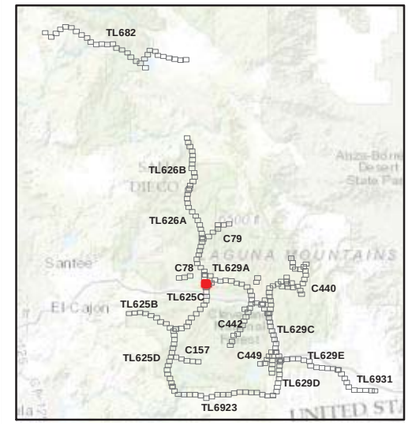
Cleveland National Forest
Power Line Replacement Projects

Z273029
Z273028
Z273027
Z273026
Z273025
TL625C
Z273024
Z273023
Z273022
Z273021
Z273020
Z273019
Z273018
Drd561901-1
Central Ave
Riley Rd

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Road
- Southern Mixed Chaparral



SDGE A Sempra Energy utility
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6/17/2016

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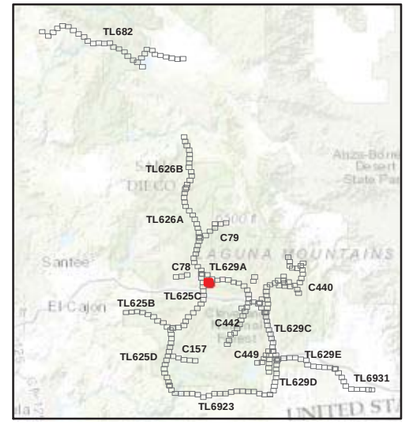
Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 14 of 16

Cleveland National Forest
Power Line Replacement Projects

- Staging Area
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Mixed Oak Woodland
- Non-Native Grassland
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE a Sempra Energy utility

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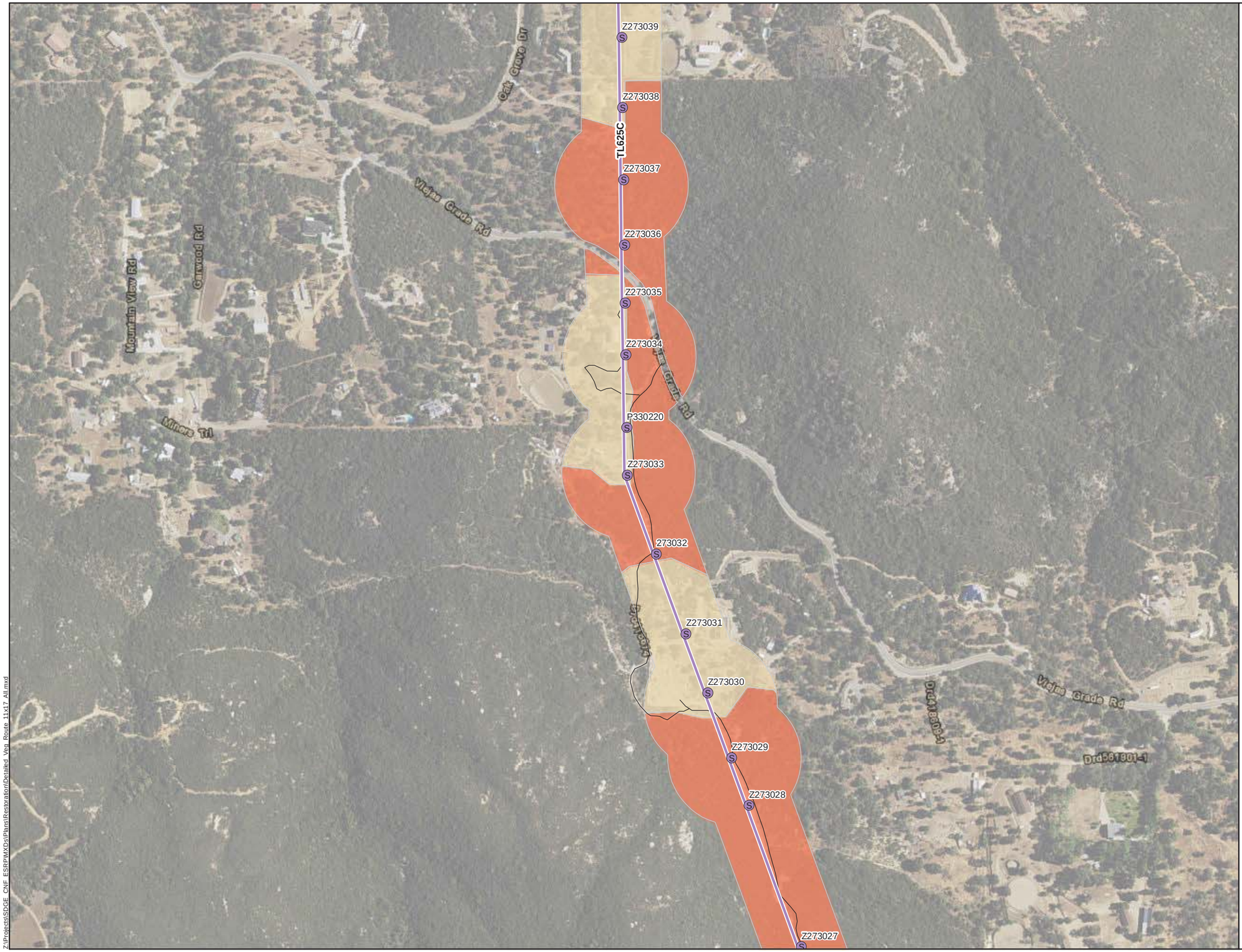


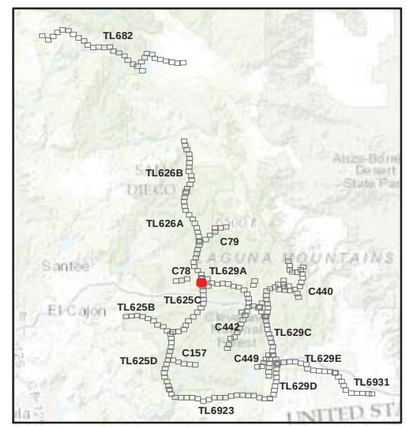
Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 15 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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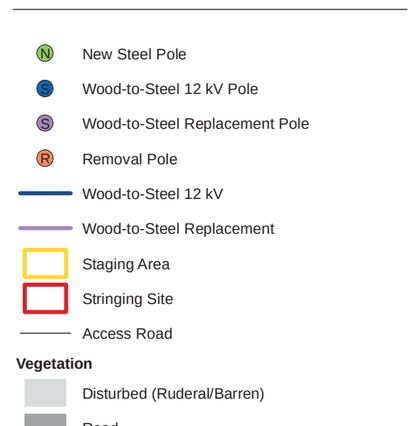
Attachment A-17:
TL625C
Components and Vegetation Mapping
Map 16 of 16

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel 12 kV Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel 12 kV
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Disturbed (Ruderal/Barren)
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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ATTACHMENT A-18: TL6923 COMPONENTS AND VEGETATION MAPPING

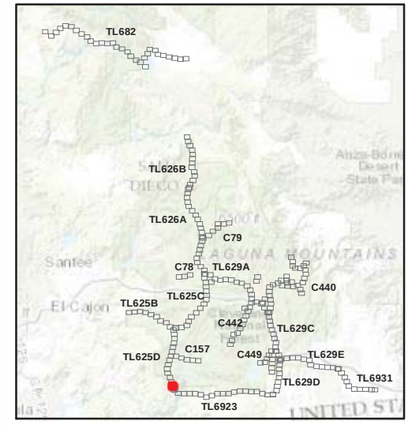
Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 1 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Road
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



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A Sempra Energy utility

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Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 2 of 20

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

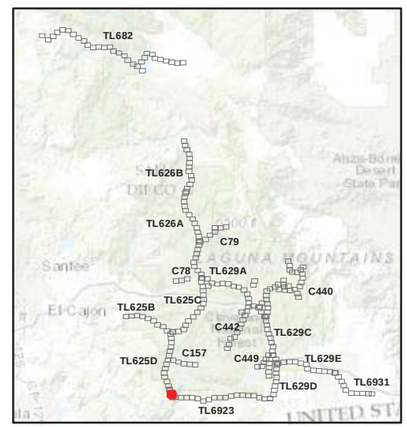
Wood-to-Steel Replacement

Access Road

Vegetation

Diegan Coastal Sage Scrub

Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 3 of 20

Cleveland National Forest
Power Line Replacement Projects

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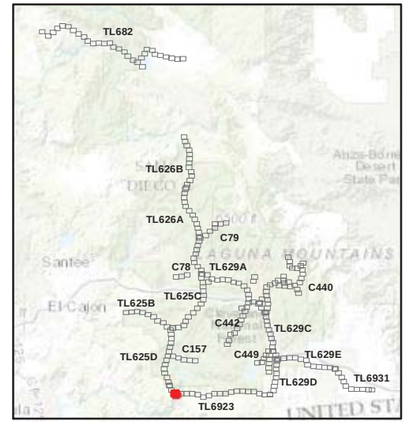
Z172097
Z972924
Z972788
TL6923

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Southern Mixed Chaparral
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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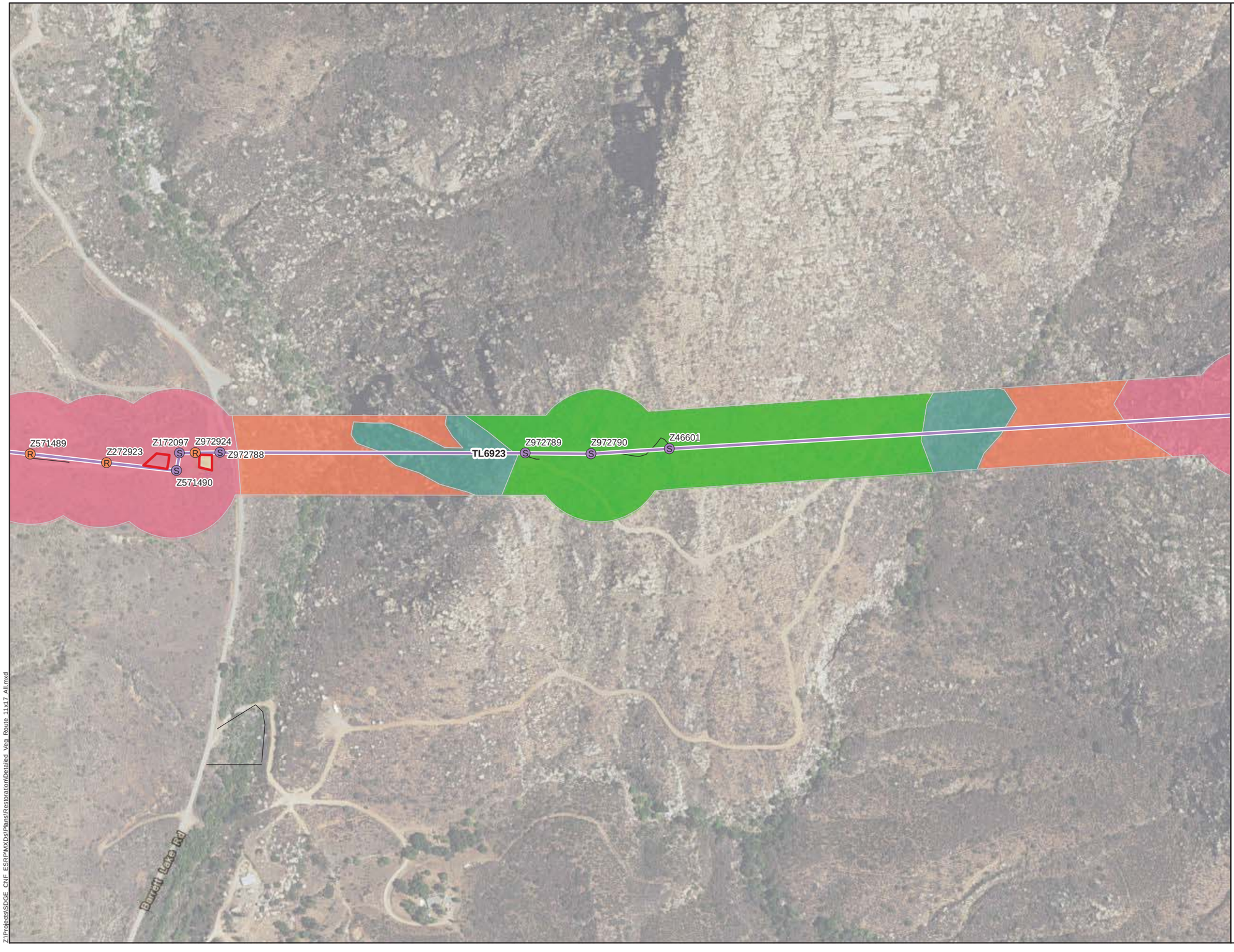
6/17/2016

Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 4 of 20

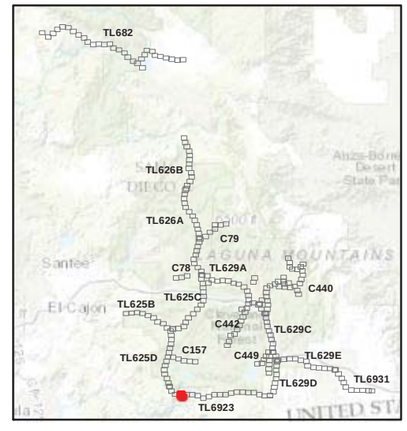
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Native Grassland
- Southern Mixed Chaparral
- Southern Riparian Forest
- Urban and Developed/Ornamental Landscaping



SDGE A Sempra Energy utility

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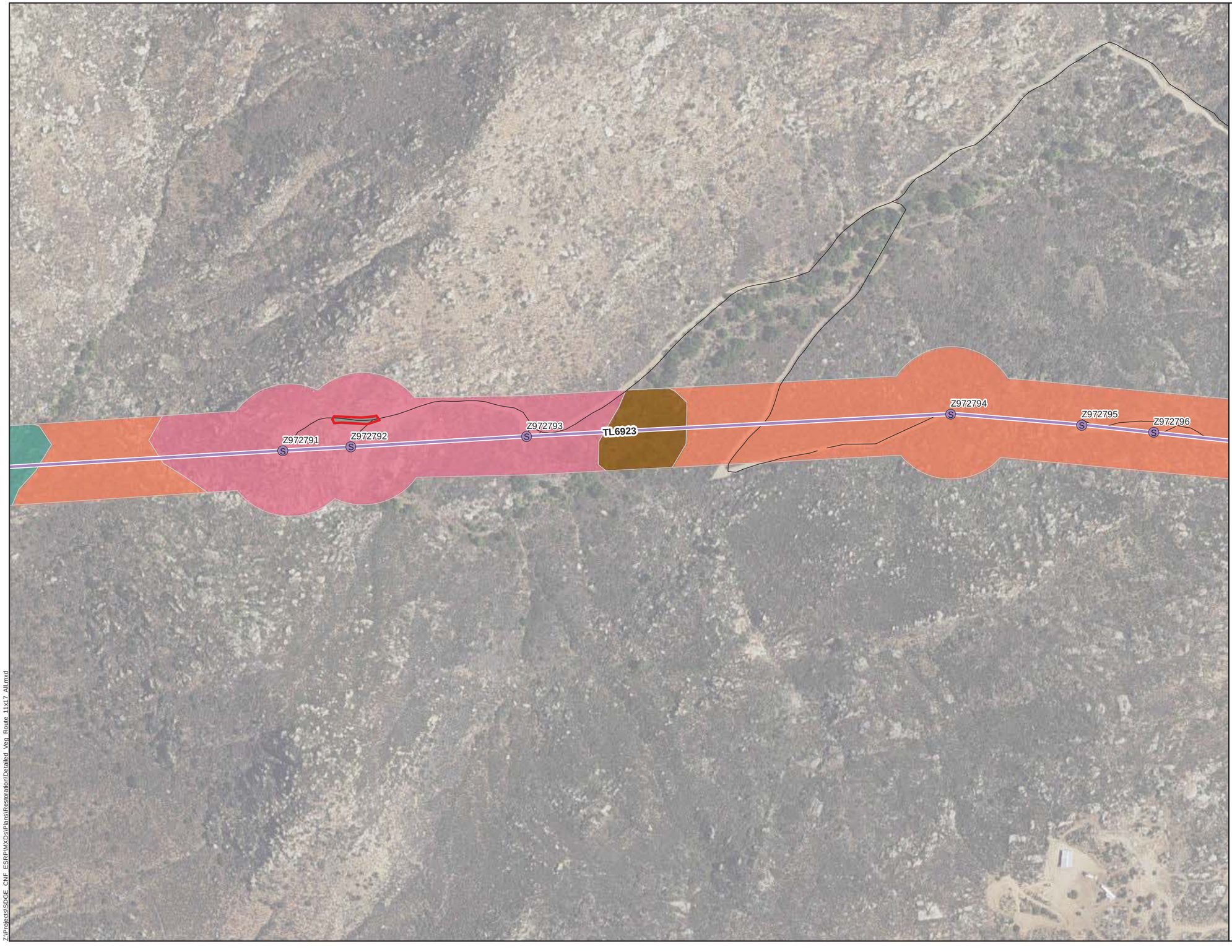
Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 5 of 20

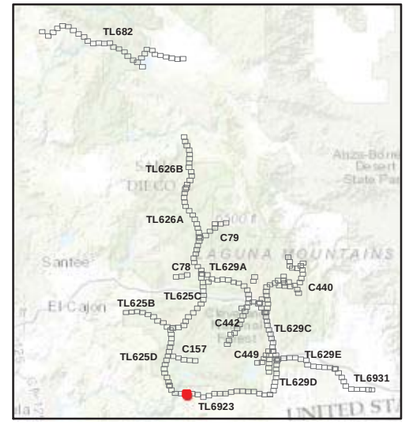
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral
- Southern Riparian Forest



SDGE A Sempra Energy utility

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Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 6 of 20

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Access Road

Vegetation

Southern Mixed Chaparral

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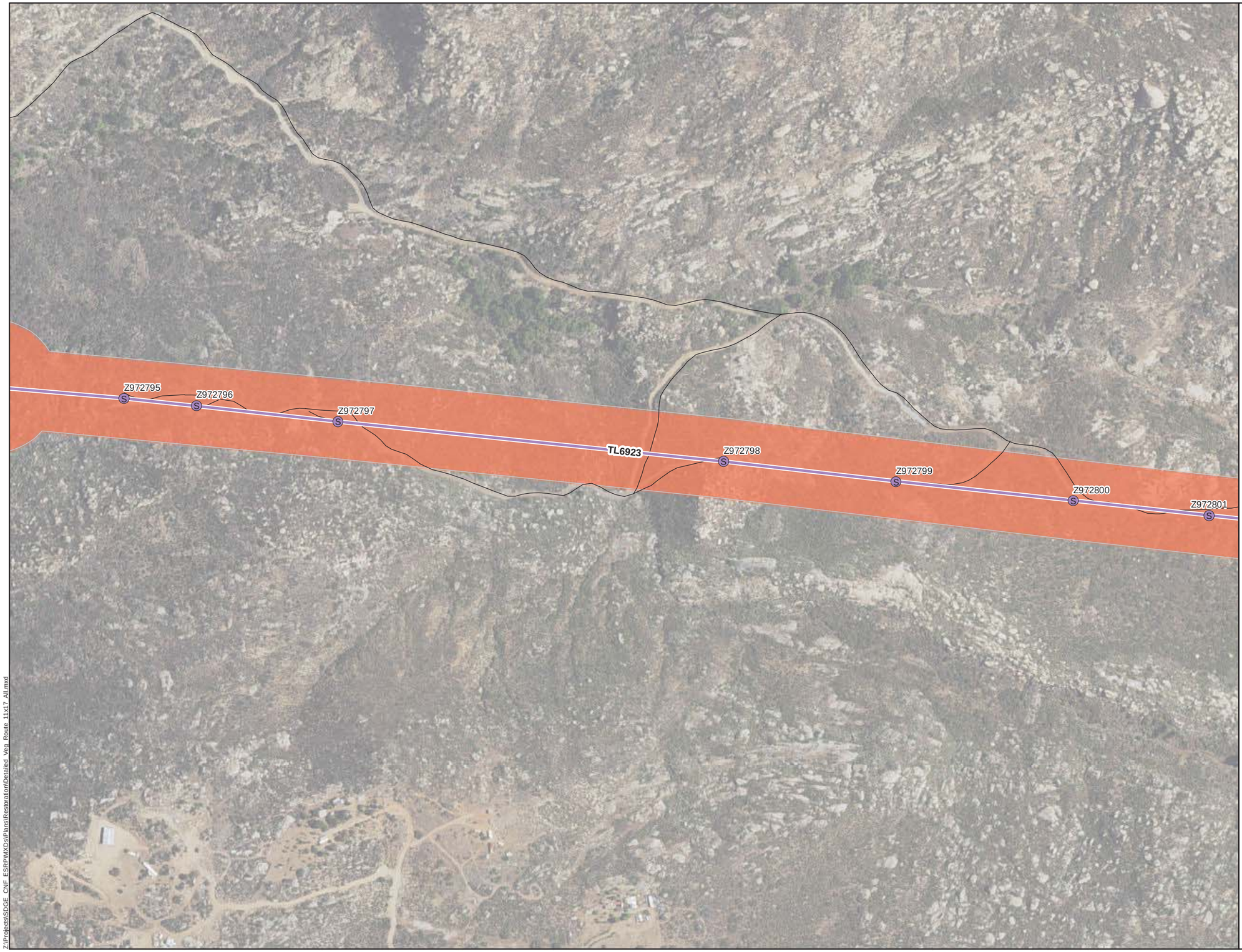

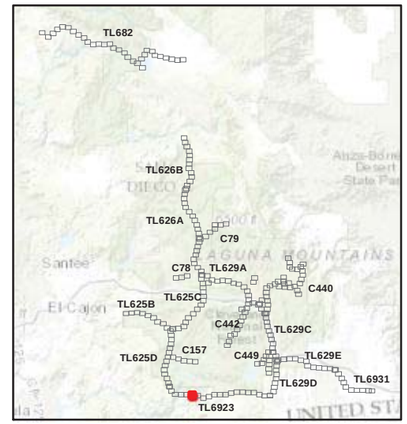

SDGE A Sempra Energy utility

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Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 7 of 20

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Stringing Site
Access Road

Vegetation

Chamise Chaparral
Native Grassland
Road
Southern Mixed Chaparral

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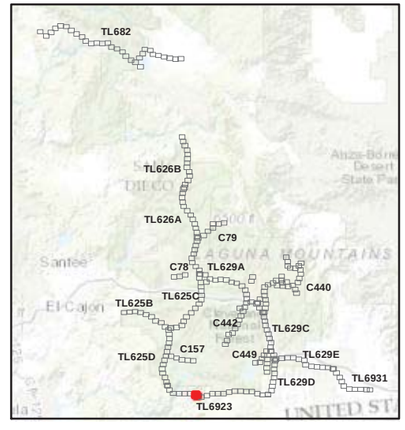

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Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 8 of 20

Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Native Grassland
- Pastureland/Cultivated Agriculture
- Road
- Southern Mixed Chaparral



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Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 9 of 20

Cleveland National Forest
Power Line Replacement Projects

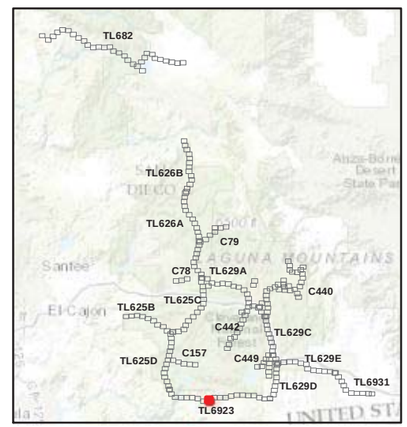
Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Staging Area
Access Road

Vegetation

Chamise Chaparral
Pastureland/Cultivated Agriculture

Rough Potrero Rd

Z972822
Z972821
Z972820
Z972819
Z972817
Z972816
Z972815
Z972814
Z972813
TL6923



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Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 10 of 20

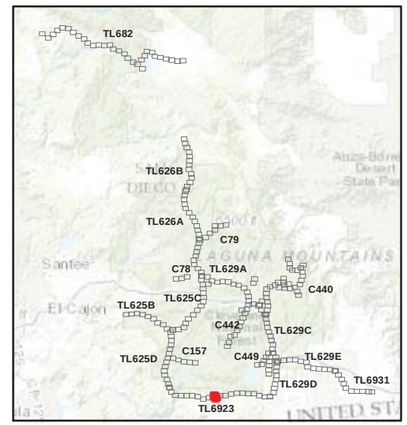
Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
No Work Planned
Wood-to-Steel Replacement
Stringing Site
Access Road

Vegetation

Chamise Chaparral
Road
Southern Mixed Chaparral

Z972824
Z972823
Z972825
Z972826
Z972827
Z972828
SP-1036
TL6923
Z972822
Z972821
S_Boundry



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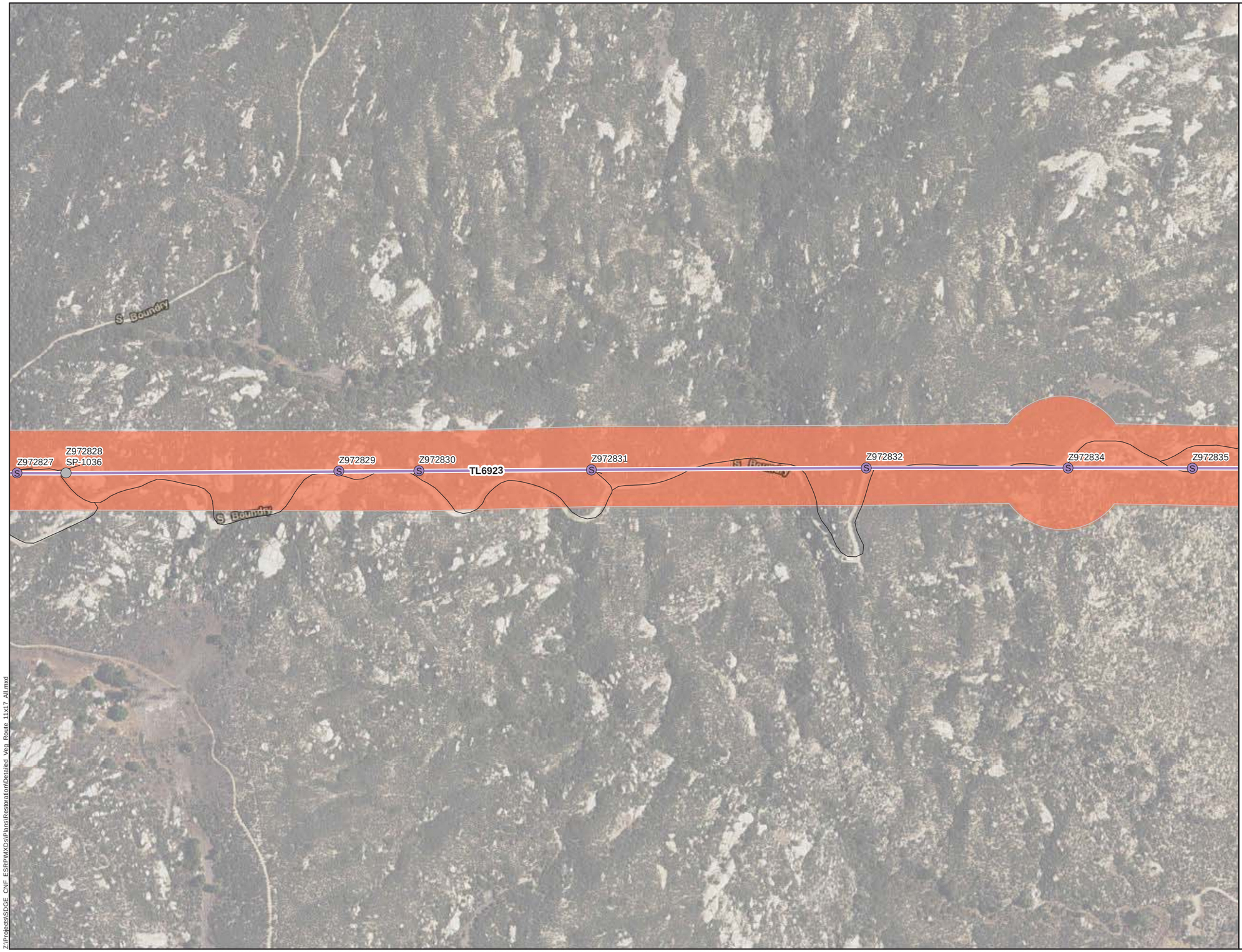
Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 11 of 20

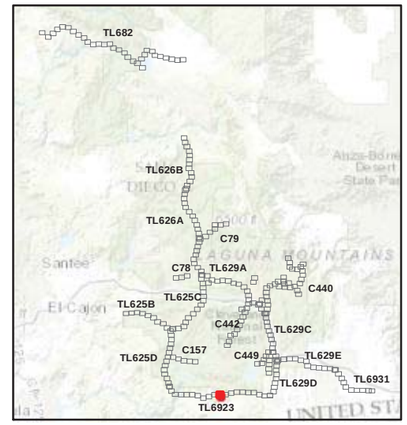
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- No Work Planned
- Wood-to-Steel Replacement
- Access Road

Vegetation

- Southern Mixed Chaparral



SDGE A Sempra Energy utility

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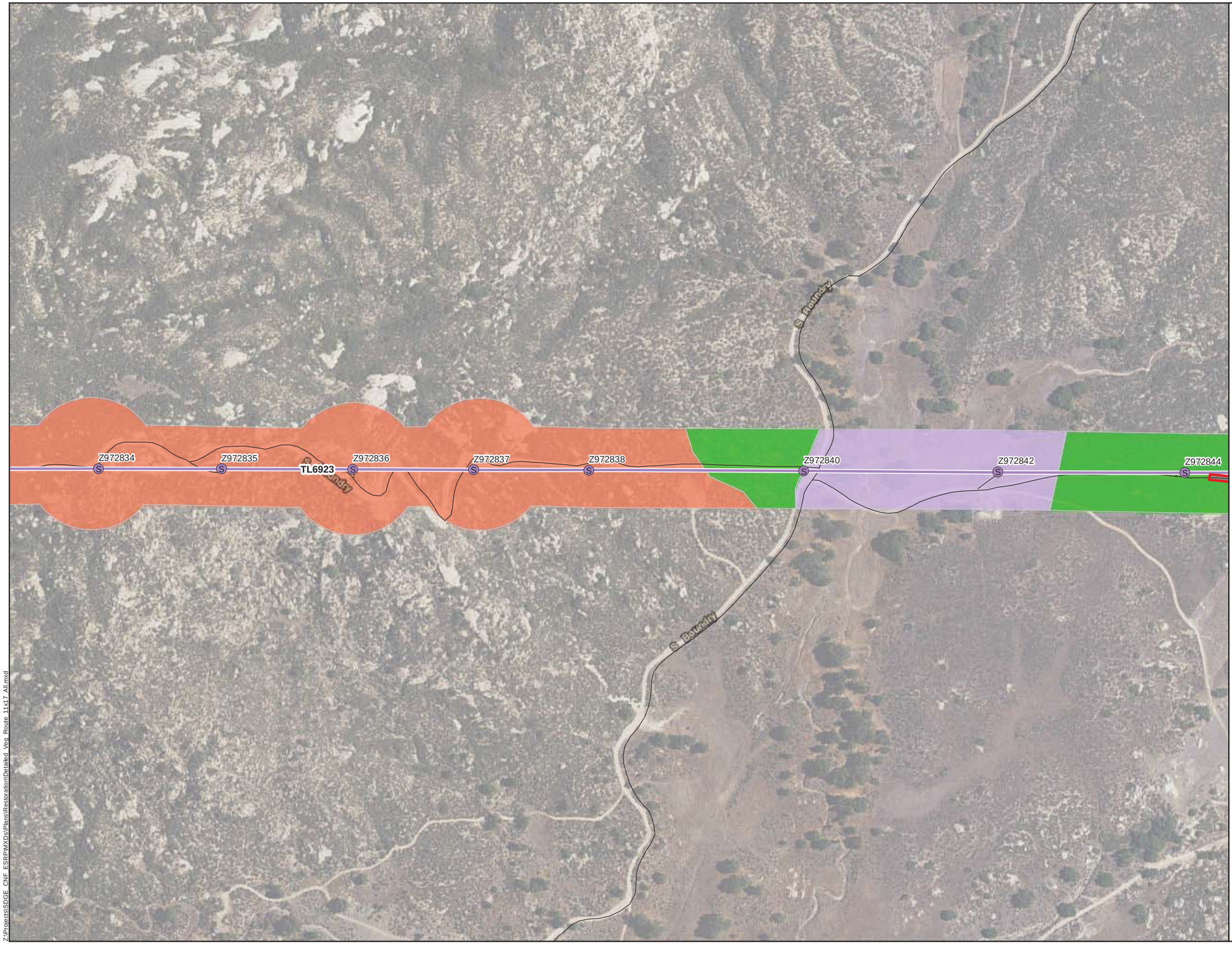
Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 12 of 20

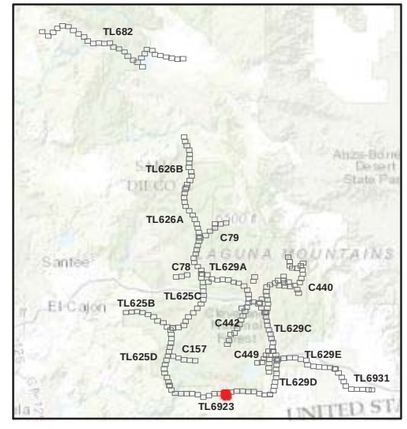
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Native Grassland
- Oak Savanna
- Road
- Southern Mixed Chaparral



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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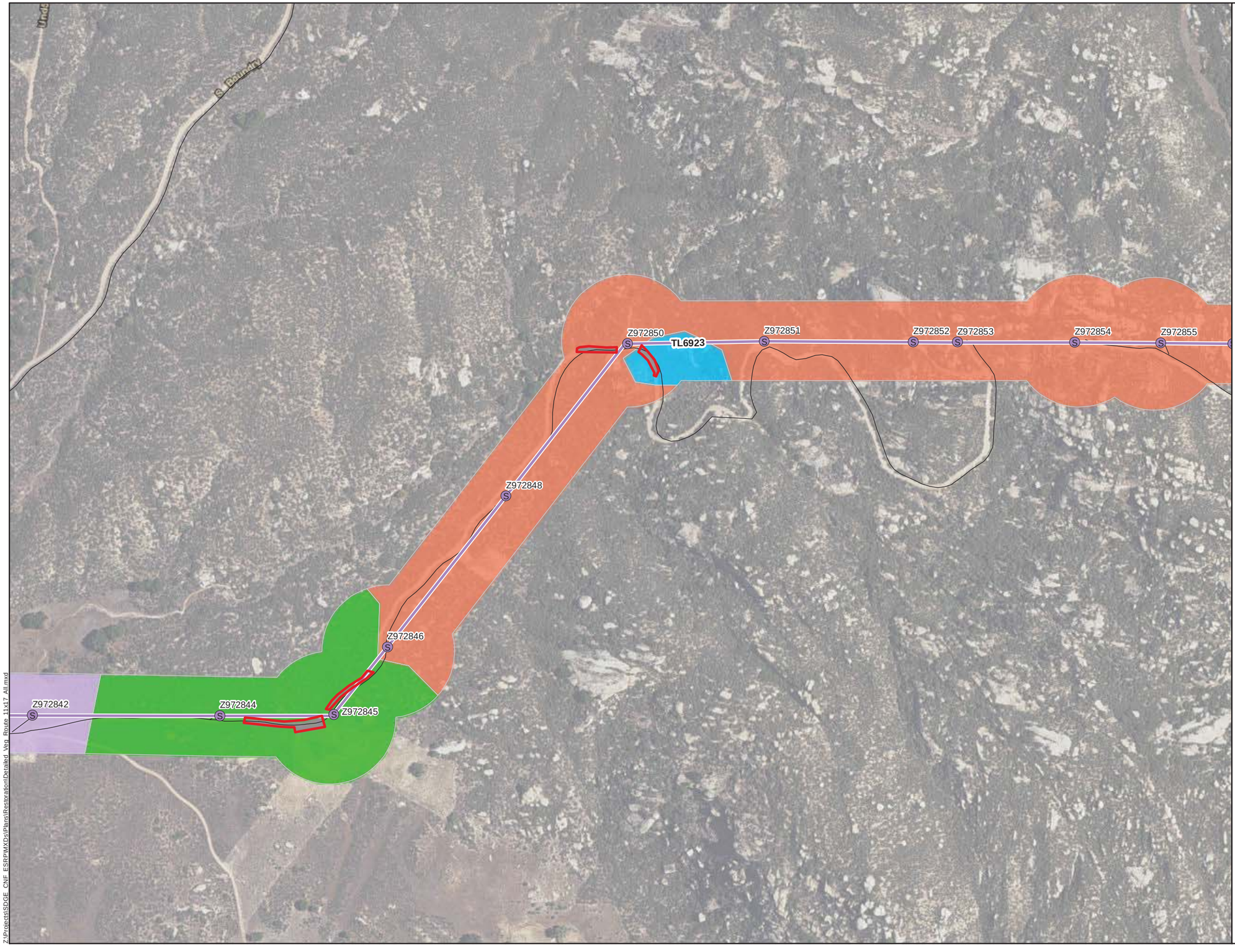
Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 13 of 20

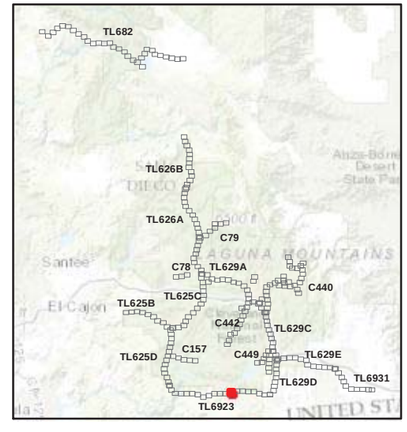
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Freshwater Seep/Open Water
- Native Grassland
- Oak Savanna
- Road
- Southern Mixed Chaparral



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 14 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Road
- Southern Mixed Chaparral

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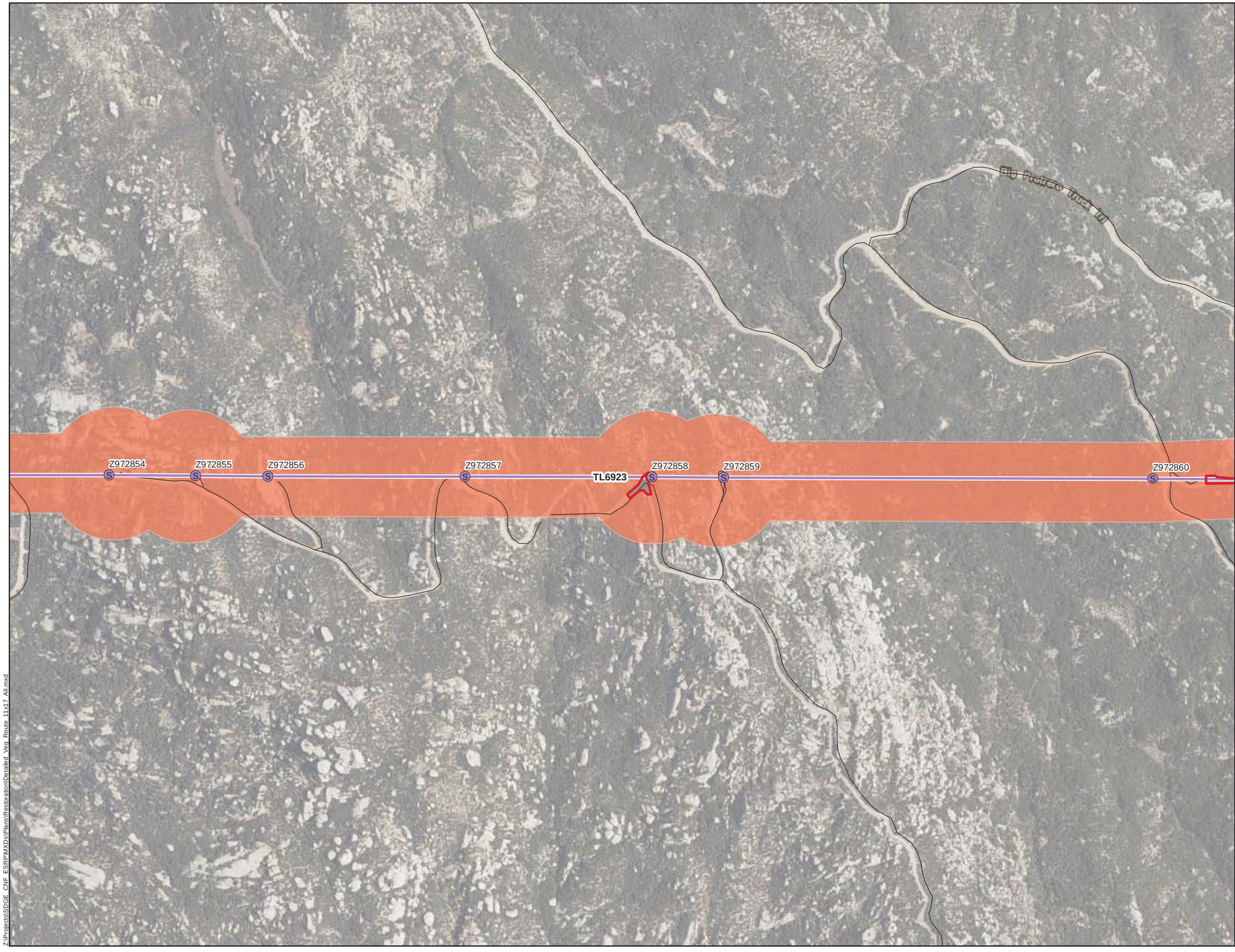

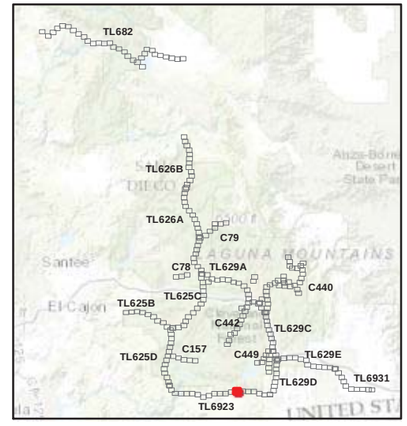

SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 15 of 20

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

Vegetation

Road

Southern Mixed Chaparral

Big Pedro Truck Trl

Hauser Creek Rd

Z972860

Z972863

Z972864

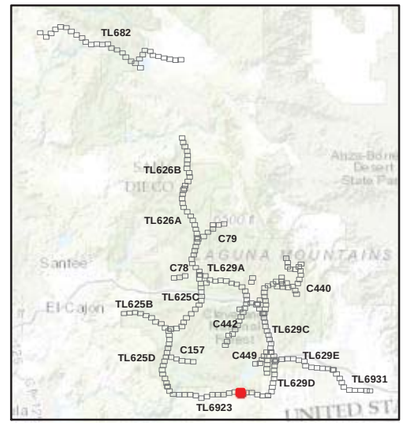
Z972865

TL6923

Z972866

Z972867

Sunset



SDGE A Sempra Energy utility

ENSIGNIA ENVIRONMENTAL

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6/17/2016

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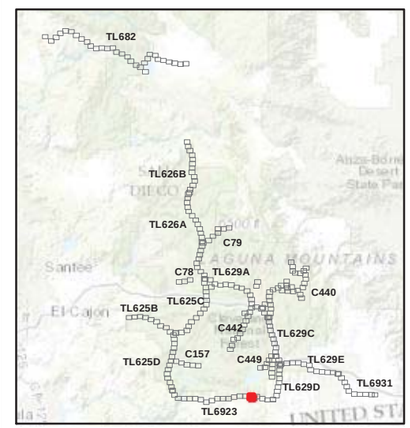
Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 16 of 20

Cleveland National Forest
Power Line Replacement Projects





- Wood-to-Steel Replacement Pole
- No Work Planned
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Freshwater Seep/Open Water
- Mixed Oak Woodland
- Road
- Southern Mixed Chaparral

SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

1:4,250

0 200 400 Feet

6/17/2016

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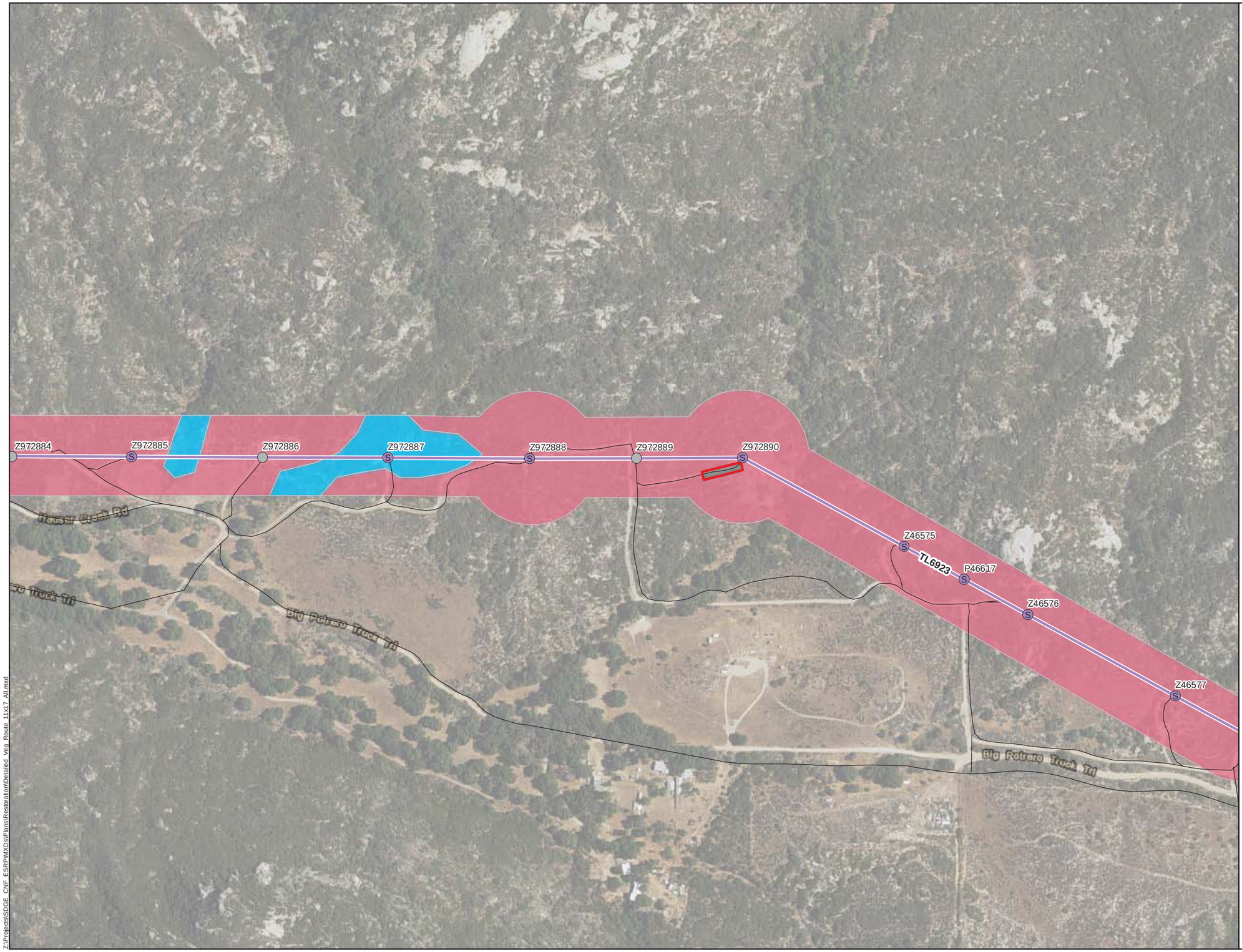
Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 17 of 20

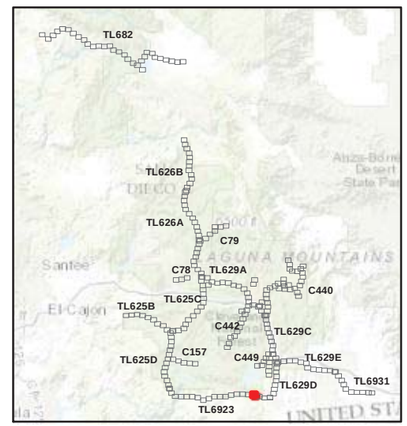
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- No Work Planned
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Vegetation

- Diegan Coastal Sage Scrub
- Freshwater Seep/Open Water
- Road





SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/17/2016

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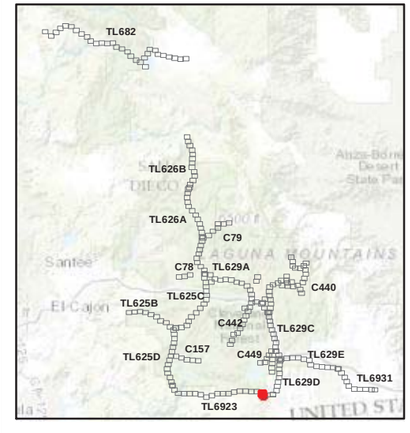
Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 18 of 20

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Staging Area
Stringing Site
Access Road

Vegetation

Diegan Coastal Sage Scrub
Non-Native Grassland
Pastureland/Cultivated Agriculture
Road



SDGE A Sempra Energy utility

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6/17/2016

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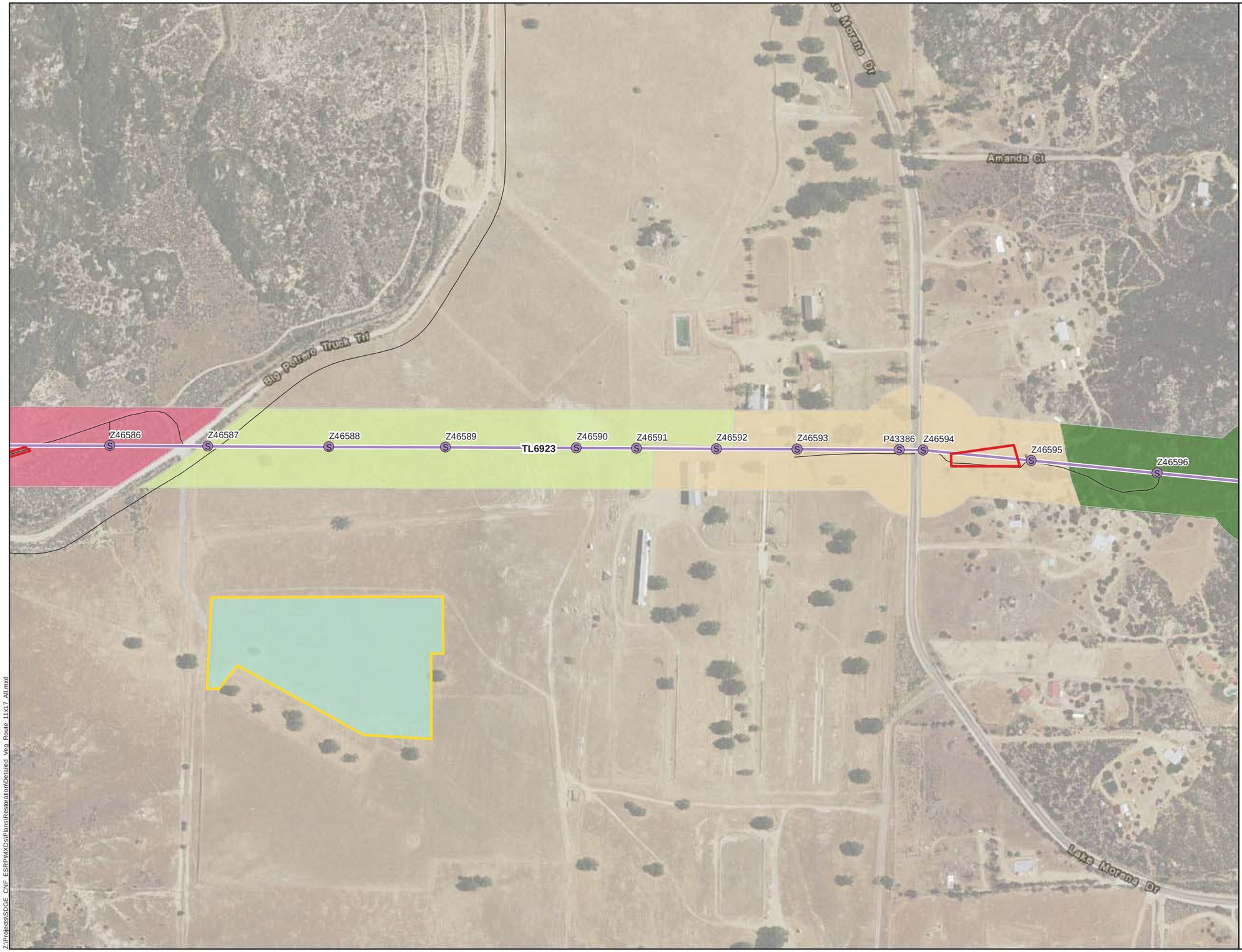
Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 19 of 20

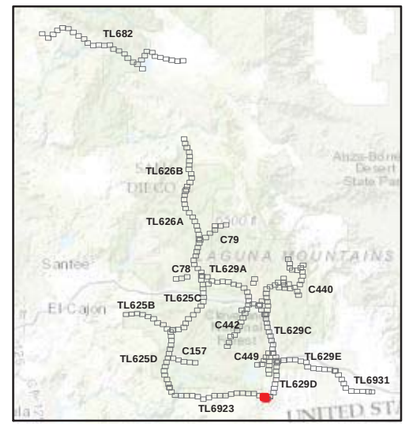
Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Staging Area
Stringing Site
Access Road

Vegetation

Chamise Chaparral
Diegan Coastal Sage Scrub
Non-Native Grassland
Pastureland/Cultivated Agriculture
Road
Urban and Developed/Ornamental Landscaping





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6/17/2016

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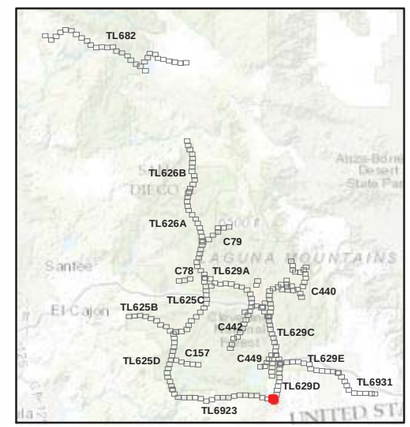
Attachment A-18:
TL6923
Components and Vegetation Mapping
Map 20 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Vegetation

- Chamise Chaparral
- Disturbed (Ruderal/Barren)
- Non-Native Grassland
- Road
- Urban and Developed/Ornamental Landscaping



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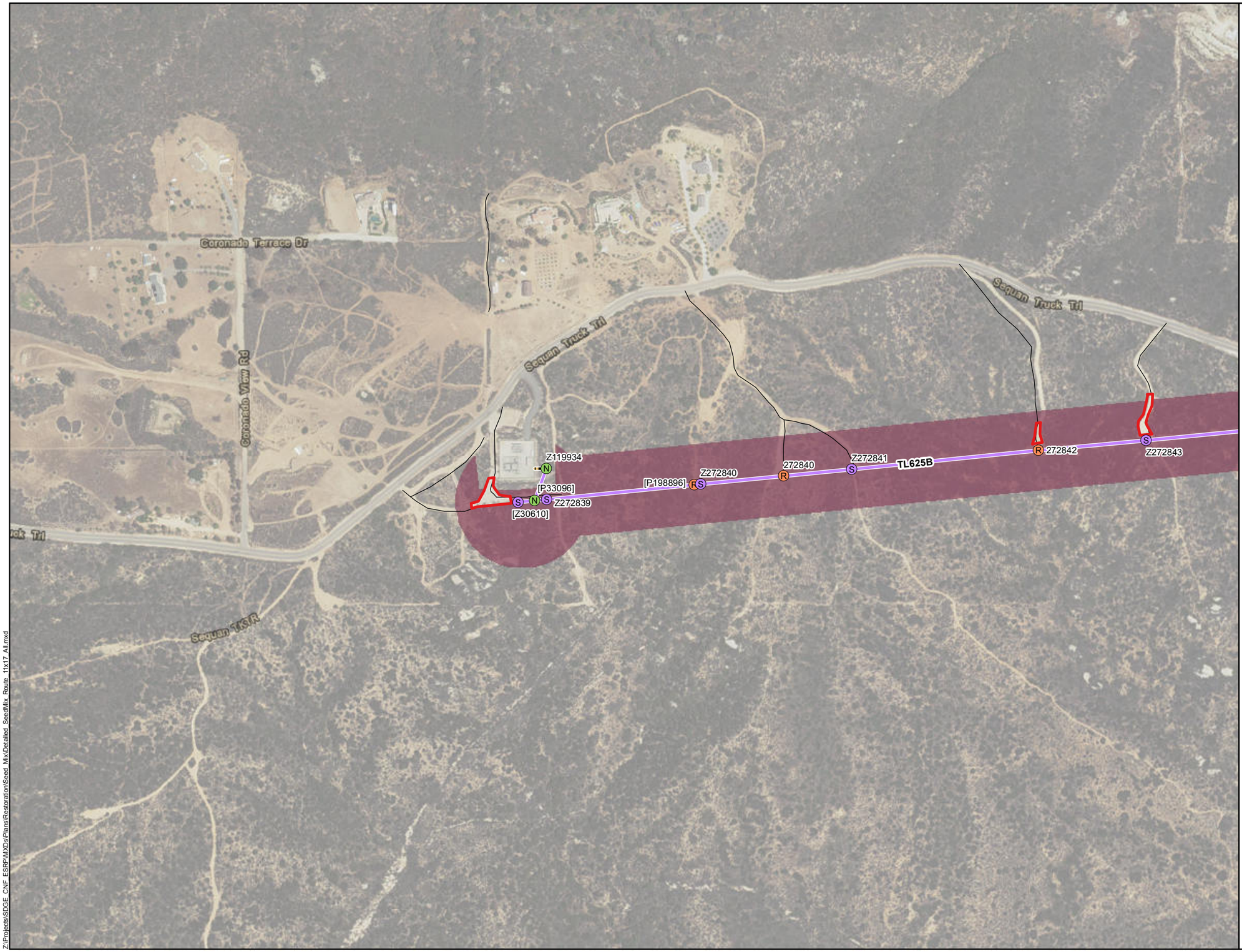
ATTACHMENT B: PRESCRIBED SEED MIX APPLICATION MAPPING

ATTACHMENT B-1: TL625B PRESCRIBED SEED MIX APPLICATION MAPPING

Attachment B-1:
TL625B
Prescribed Seed Mix
Map 1 of 10

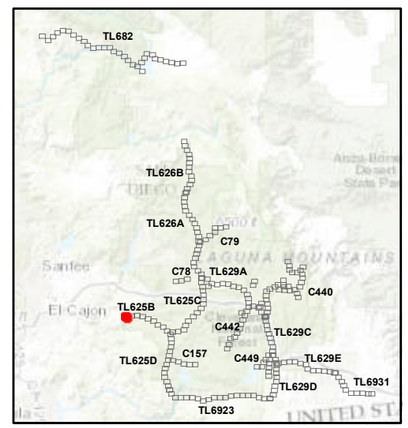
Cleveland National Forest
Power Line Replacement Projects



Seed Mix Types

- Diegan Coastal Sage Scrub and Mixed Oak Woodland

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road



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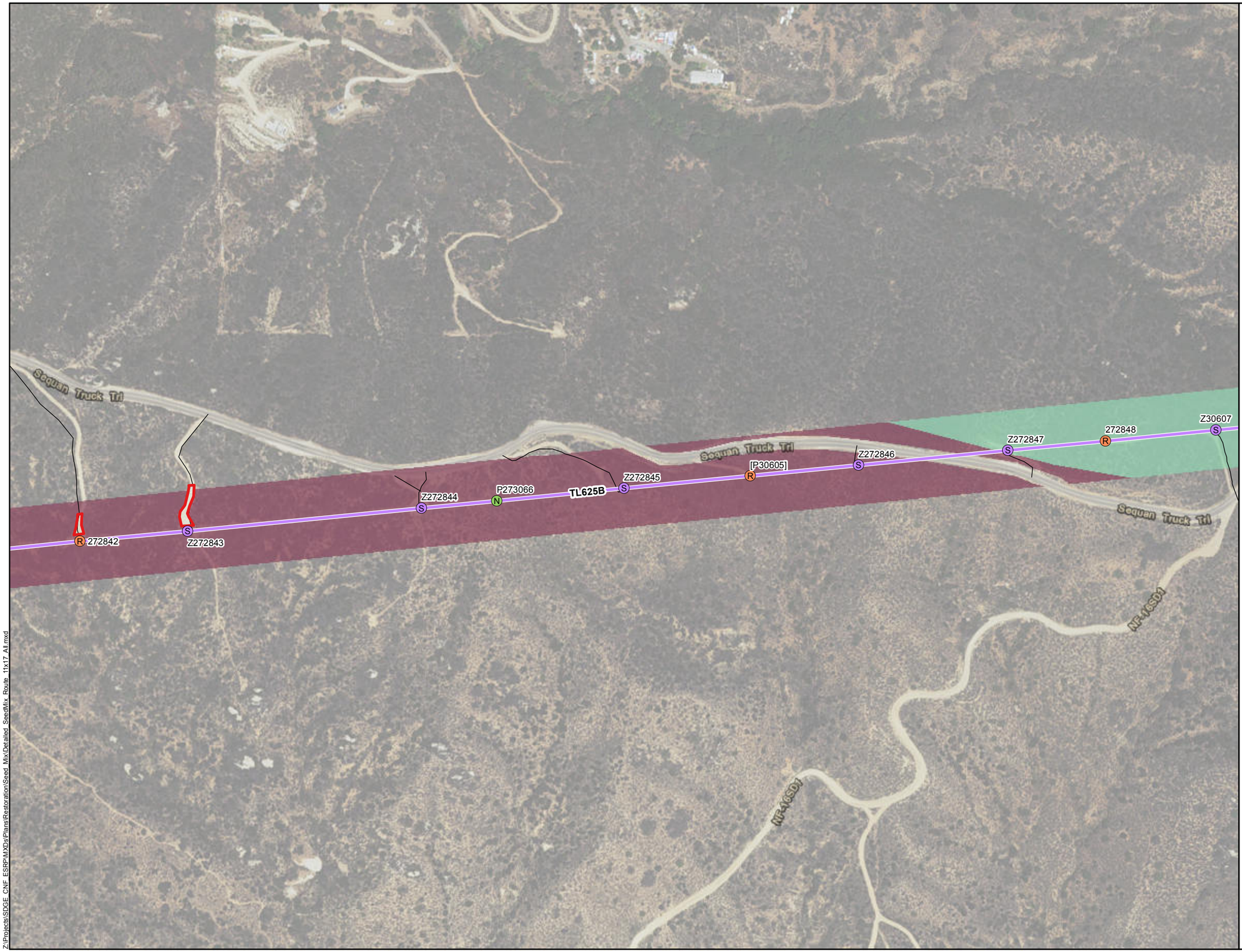


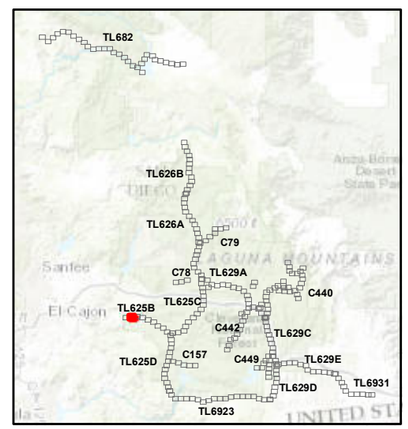
Attachment B-1:
TL625B
Prescribed Seed Mix
Map 2 of 10

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub and Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



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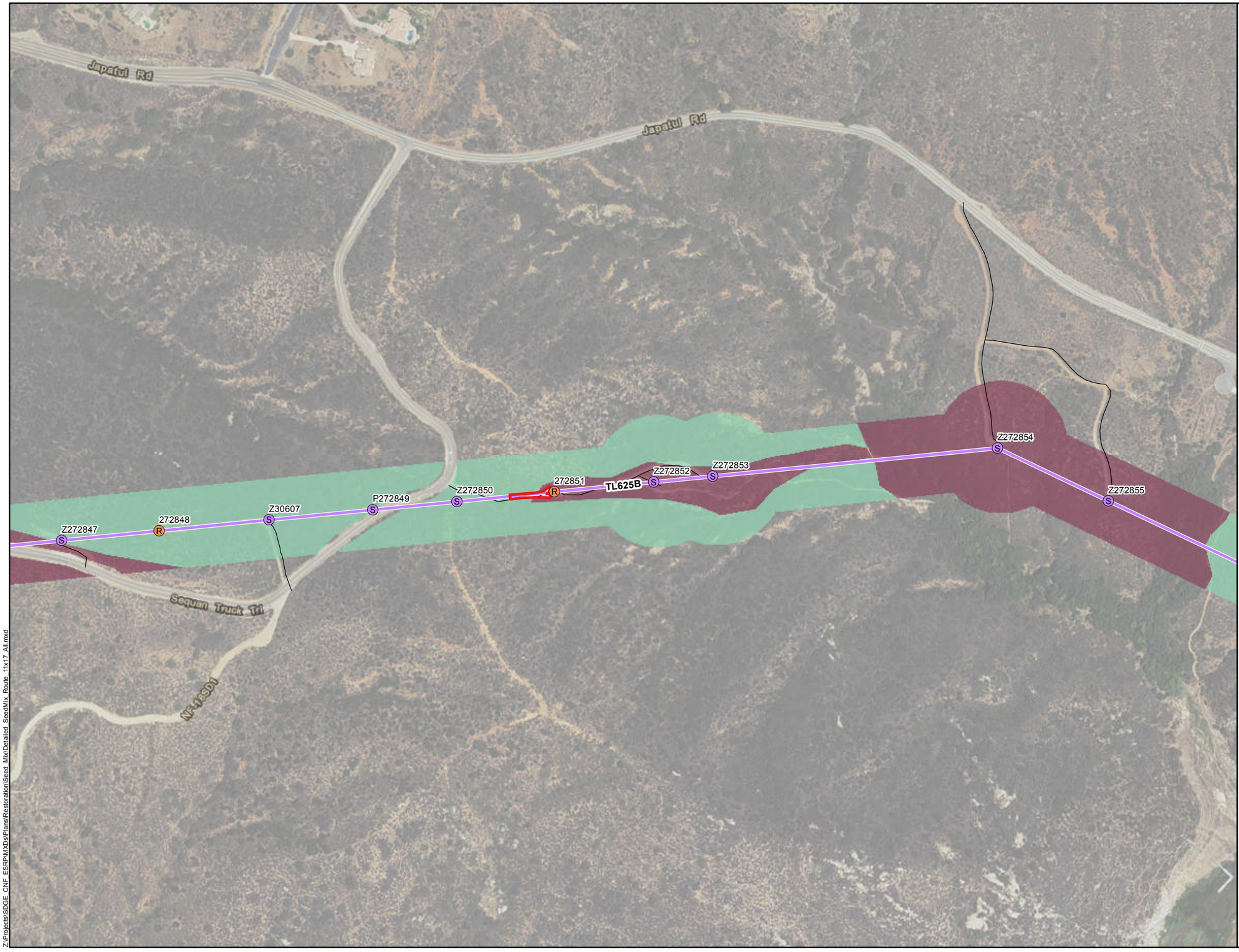
Attachment B-1:
TL625B
Prescribed Seed Mix
Map 3 of 10

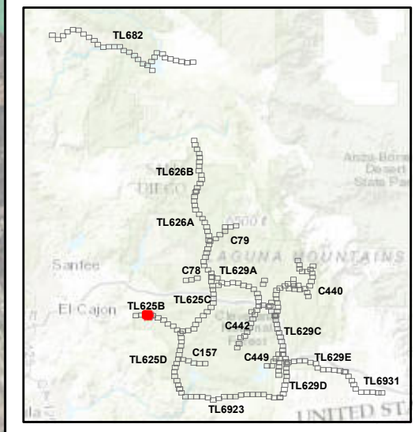
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub and Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral





SDGE A Sempra Energy utility

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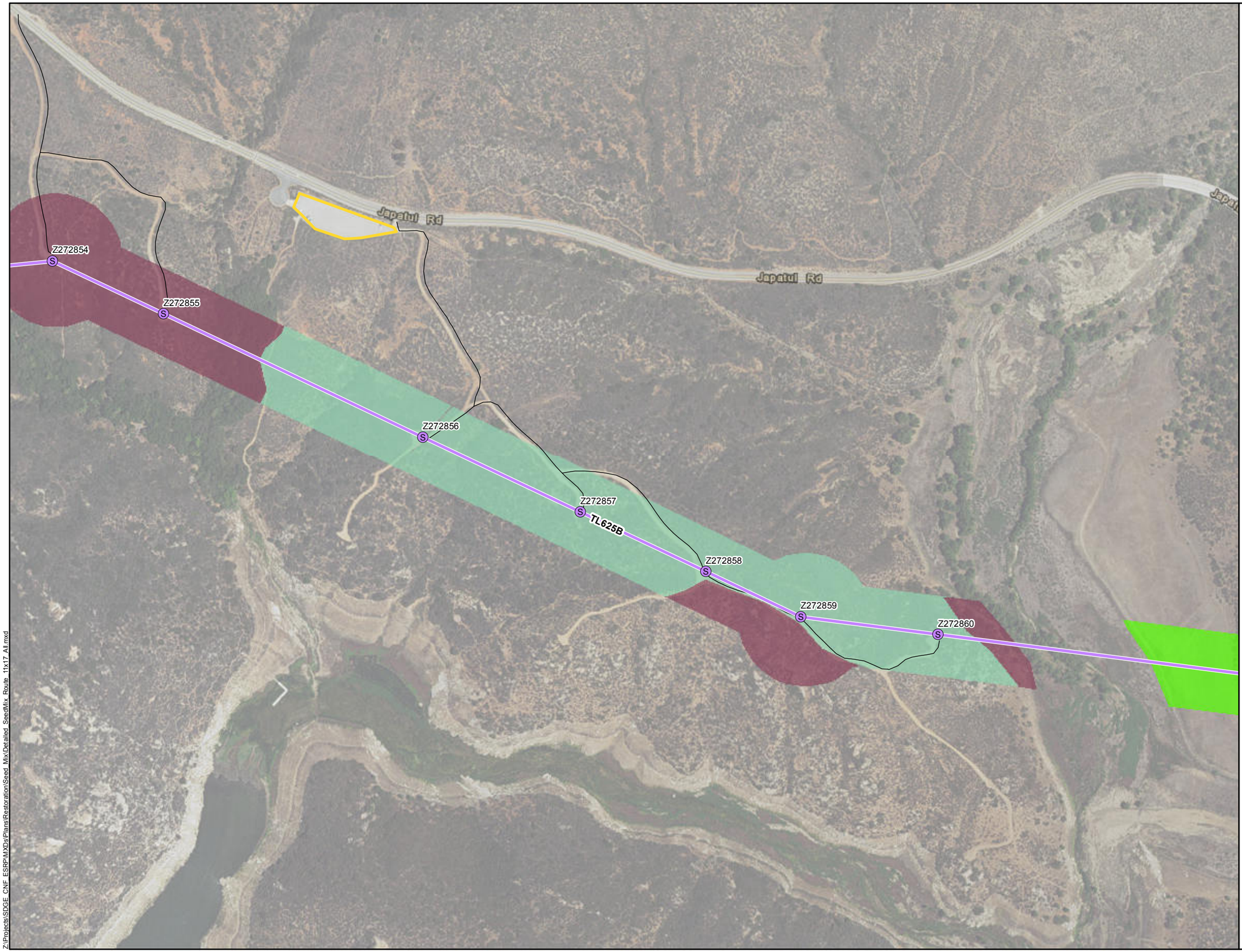


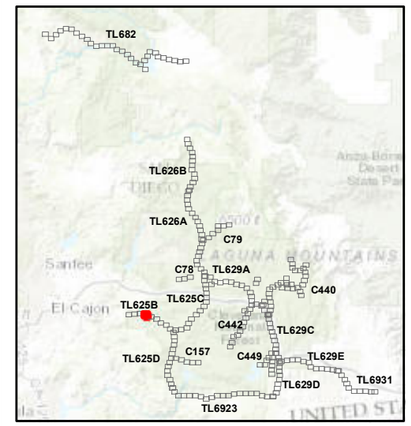
Attachment B-1:
TL625B
Prescribed Seed Mix
Map 4 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub and Mixed Oak Woodland
- Native Grassland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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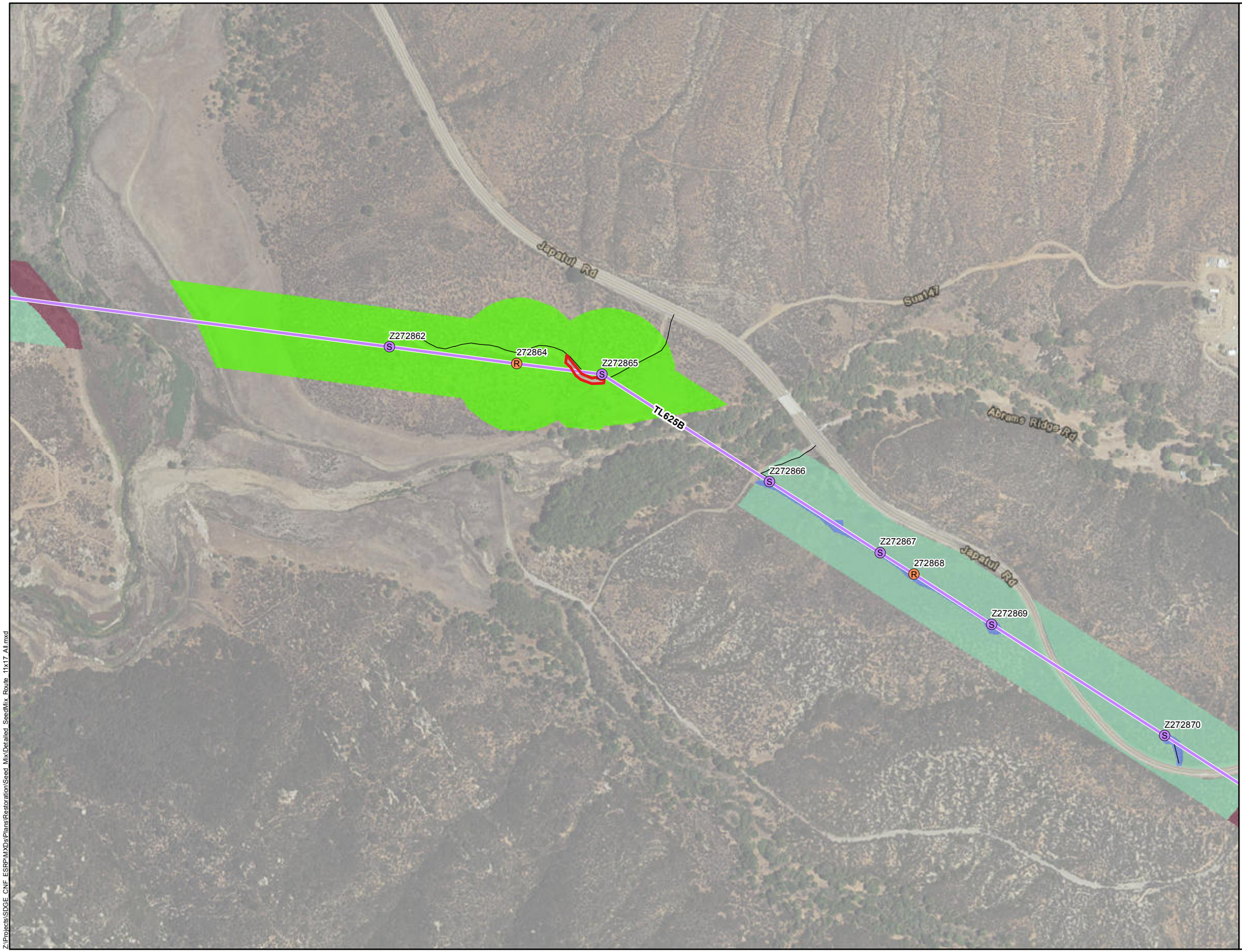


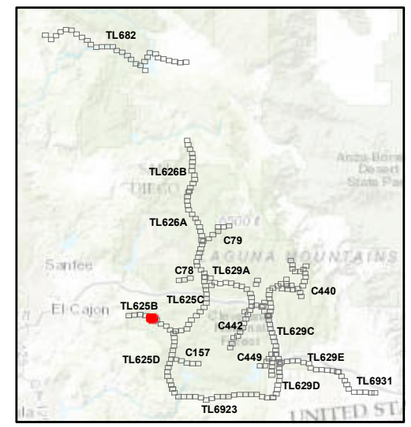
Attachment B-1:
TL625B
Prescribed Seed Mix
Map 5 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub and Mixed Oak Woodland
- Native Grassland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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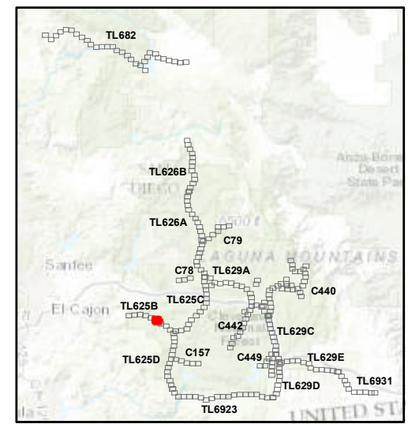
Attachment B-1:
TL625B
Prescribed Seed Mix
Map 6 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Diegan Coastal Sage Scrub and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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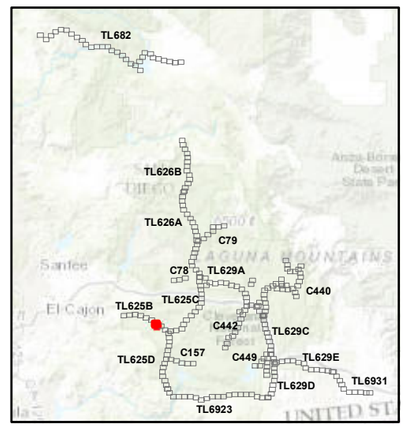
Attachment B-1:
TL625B
Prescribed Seed Mix
Map 7 of 10

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Diegan Coastal Sage Scrub and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control



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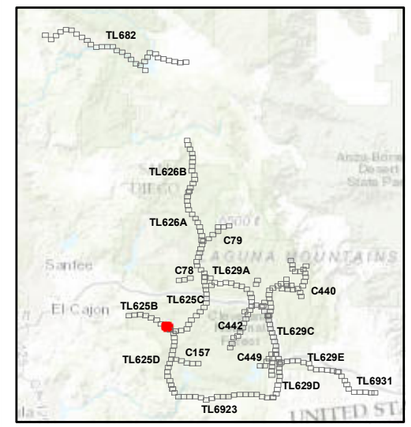
Attachment B-1:
TL625B
Prescribed Seed Mix
Map 8 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Seed Mix Types

- Chamise Chaparral
- Diegan Coastal Sage Scrub and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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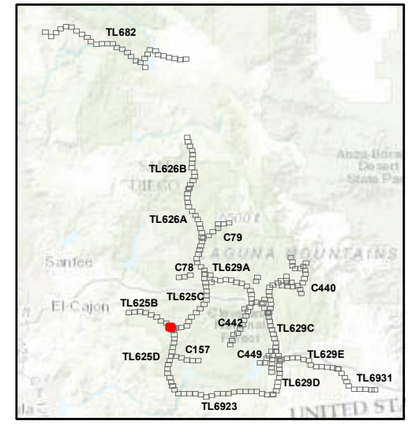
Attachment B-1:
TL625B
Prescribed Seed Mix
Map 9 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Diegan Coastal Sage Scrub and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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6/17/2016

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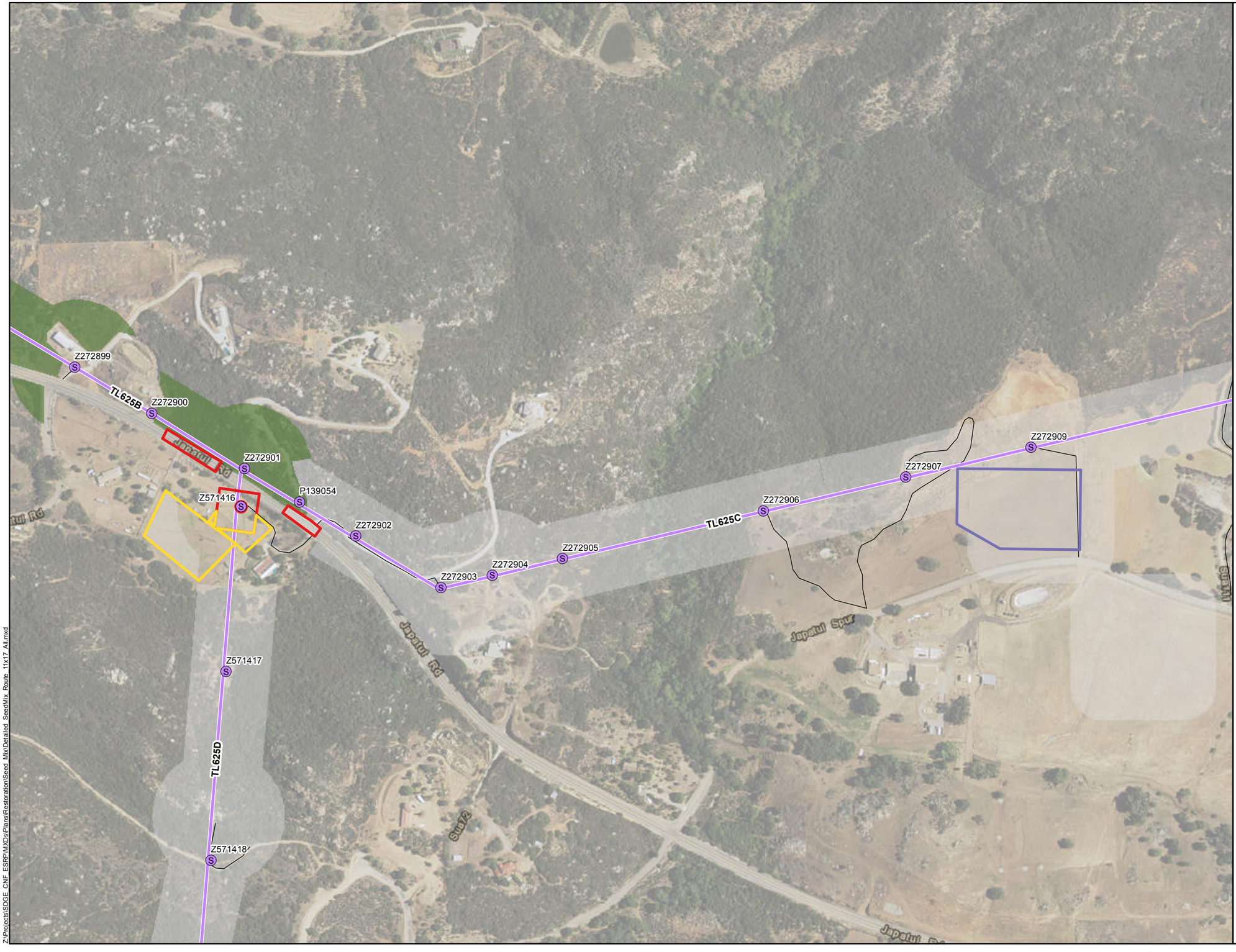
Attachment B-1:
TL625B
Prescribed Seed Mix
Map 10 of 10

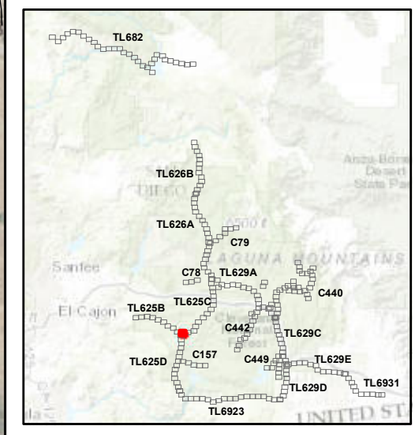
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral





SDGE A Sempra Energy utility

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ATTACHMENT B-2: TL629E PRESCRIBED SEED MIX APPLICATION MAPPING

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Z203063
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P192945
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Z40970
TL629D
Z40971
Z40575-76
Z40577
Z40578
TL629E
Z40579
Z40580
Z40581
Z40582
Z40583

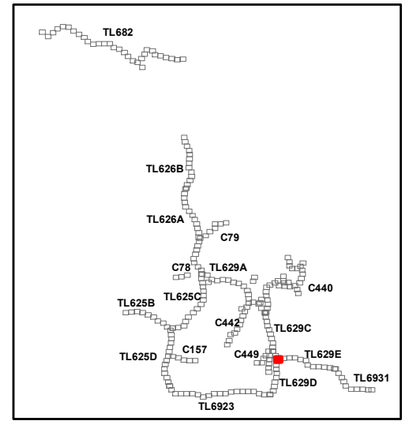
Attachment B-2:
TL629E
Prescribed Seed Mix
Map 1 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Fly Yard
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Big Sagebrush Scrub and Oak Savanna
- Southern Riparian Forest



SDGE A Sempra Energy utility
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6/17/2016

Attachment B-2:
TL629E
Prescribed Seed Mix
Map 2 of 12

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

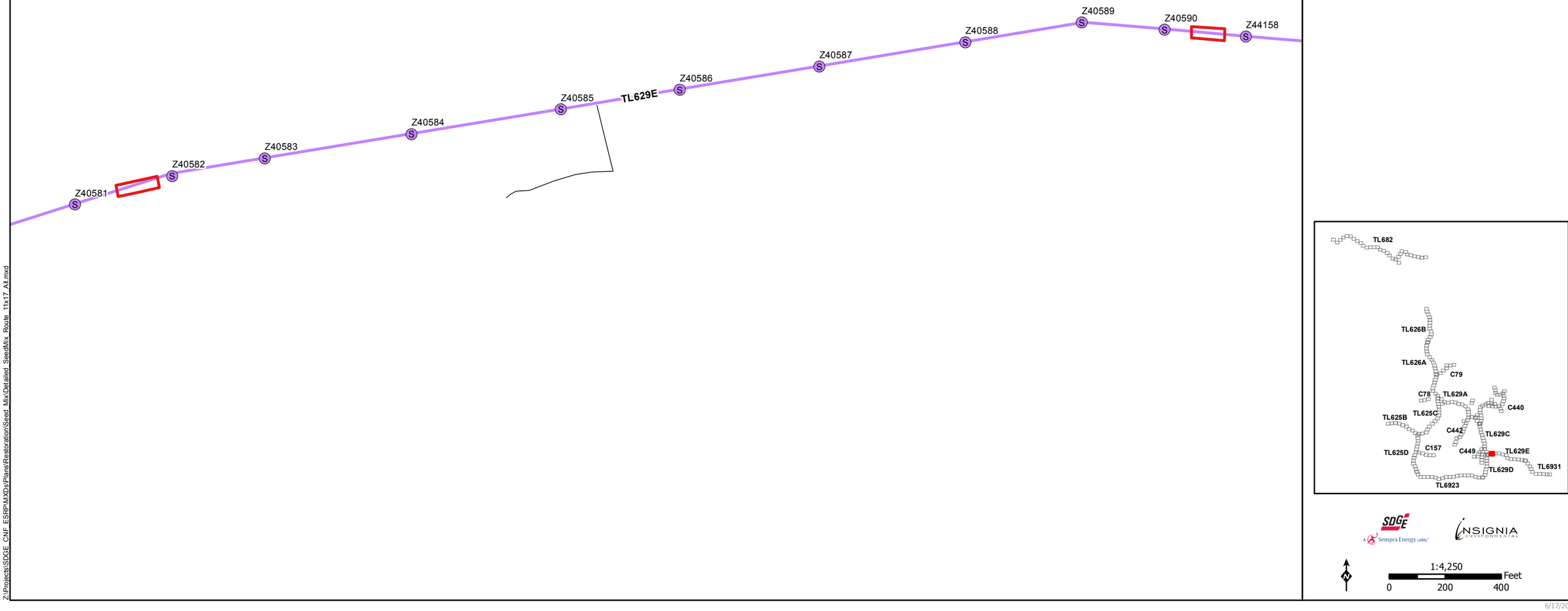
Access Road

Seed Mix Types

Big Sagebrush Scrub and Oak Savanna

Meadow / Seep

Southern Riparian Forest



SDGE A Sempra Energy utility

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Attachment B-2:
TL629E
Prescribed Seed Mix
Map 3 of 12

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Fly Yard

Staging Area

Stringing Site

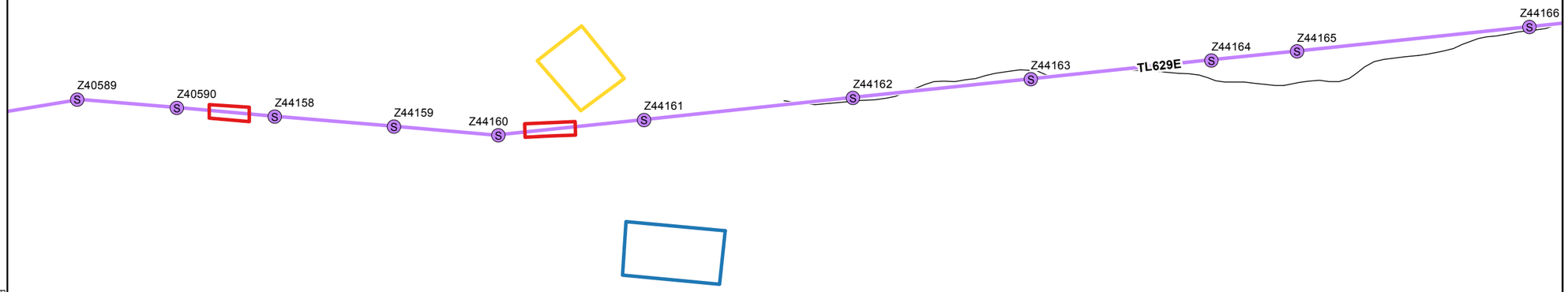
Access Road

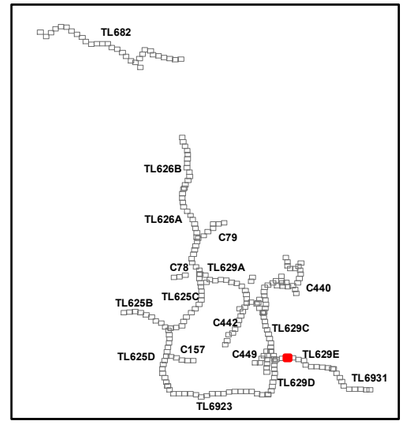
Seed Mix Types

Meadow / Seep

Non-Native Grassland and Temporary Erosion Control

Semi-Desert Chaparral





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6/17/2016

Attachment B-2:
TL629E
Prescribed Seed Mix
Map 4 of 12

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

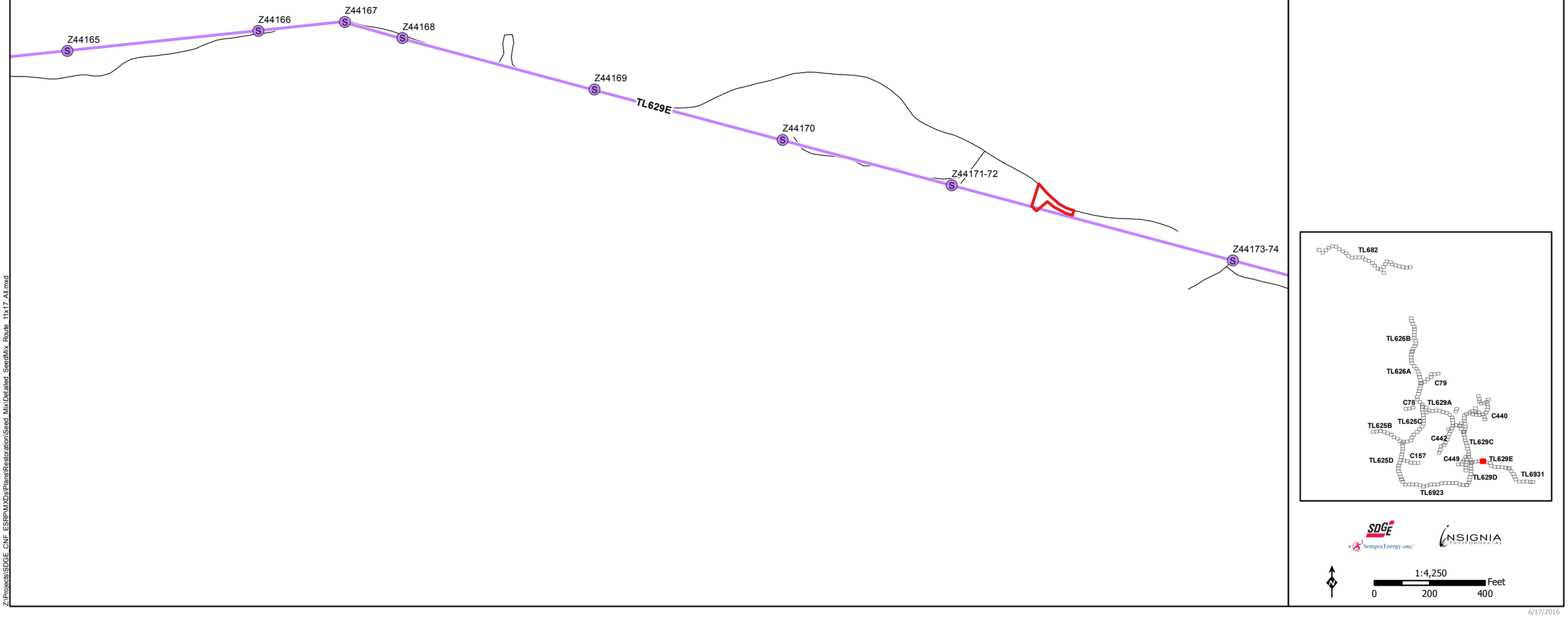
Stringing Site

Access Road

Seed Mix Types

Non-Native Grassland and Temporary Erosion Control

Semi-Desert Chaparral



SDGE A Sempra Energy utility

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Z44175

TL629E

Z44176

Z44177

Z44178-79

Z44180-81

Z44182-83

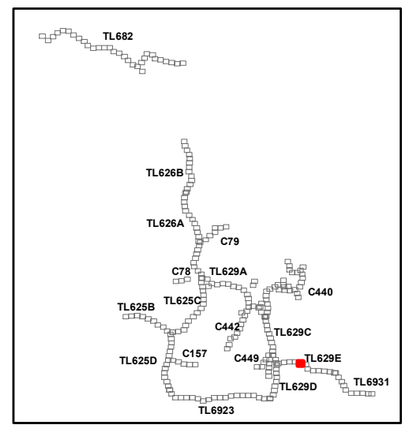
Attachment B-2:
TL629E
Prescribed Seed Mix
Map 5 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Non-Native Grassland and Temporary Erosion Control
- Semi-Desert Chaparral



SDGE A Sempra Energy utility

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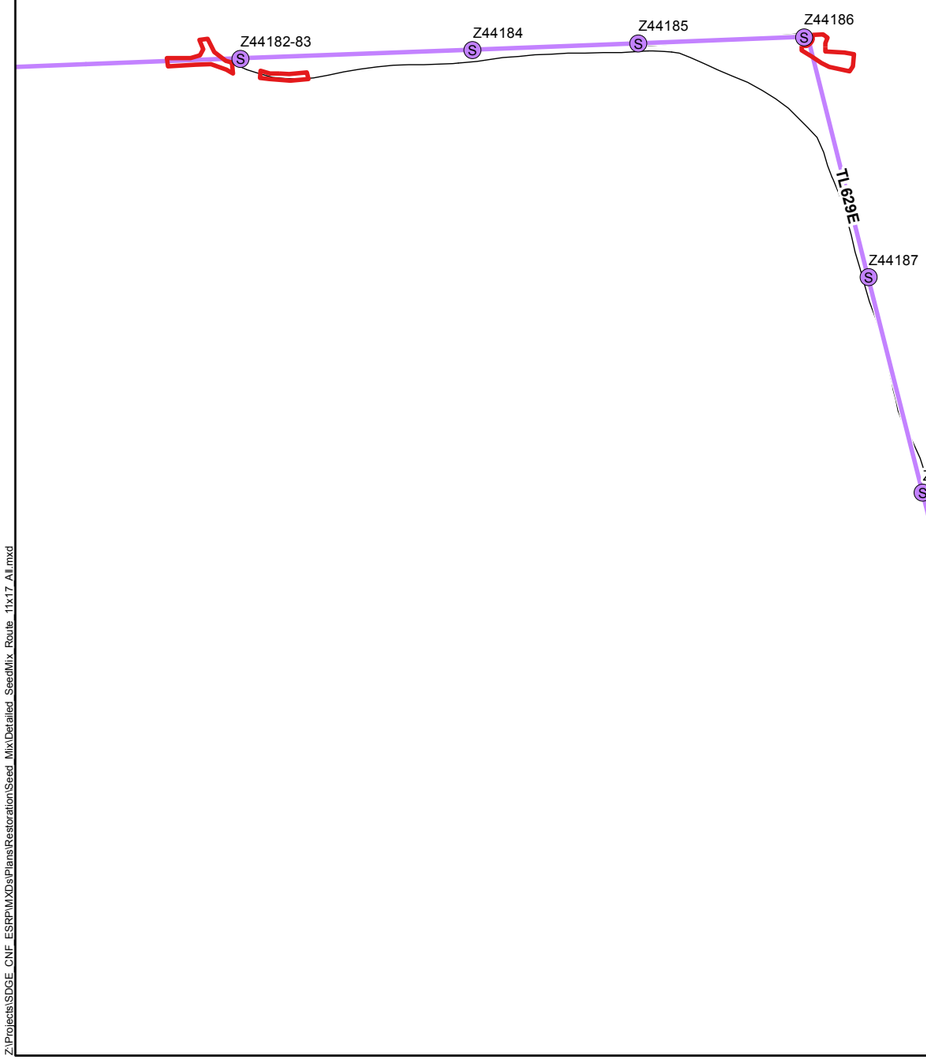


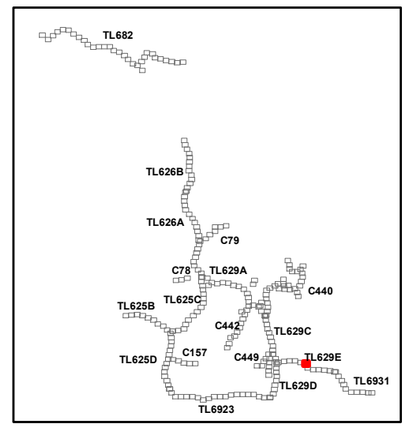
Attachment B-2:
TL629E
Prescribed Seed Mix
Map 6 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Non-Native Grassland and Temporary Erosion Control
- Semi-Desert Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/17/2016

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Attachment B-2:
TL629E
Prescribed Seed Mix
Map 7 of 12

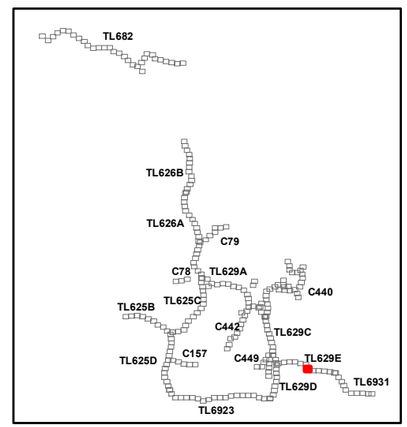
Cleveland National Forest
Power Line Replacement Projects

Z44190
Z44191
Z44192
Z44193
Z44194
Z44195
Z44196
Z44197
Z44198
Z44199
Z44200
TL629E

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Semi-Desert Chaparral



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6/17/2016

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Attachment B-2:
TL629E
Prescribed Seed Mix
Map 8 of 12

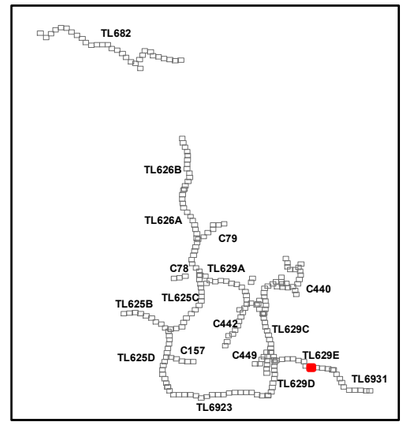
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Non-Native Grassland and Temporary Erosion Control
- Semi-Desert Chaparral

Z44199
Z44200
Z44201
Z44202
Z44203
Z44204
TL629E
Z44205
Z44206
Z44207
P45854



SDGE A Sempra Energy utility
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6/17/2016

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Z44206
Z44207
P45854
Z44208
Z44209
Z44210-11
TL629E
Z44212
Z44213
Z44214
44215-16

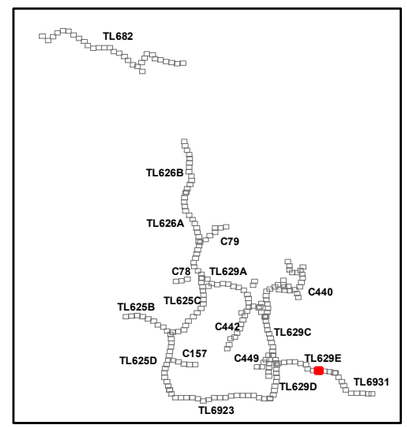
Attachment B-2:
TL629E
Prescribed Seed Mix
Map 9 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Non-Native Grassland and Temporary Erosion Control
- Semi-Desert Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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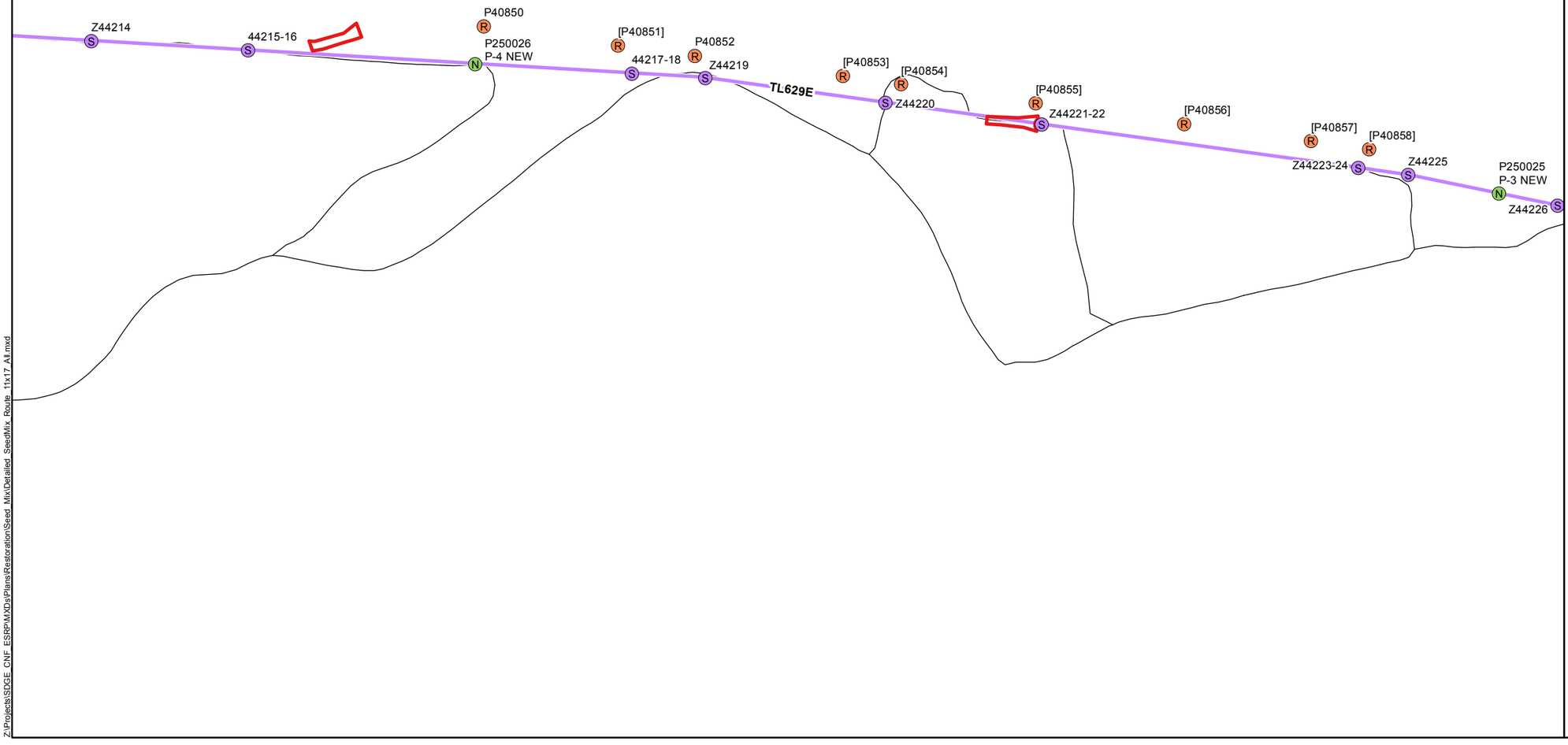
6/17/2016

Attachment B-2:
TL629E
Prescribed Seed Mix
Map 10 of 12

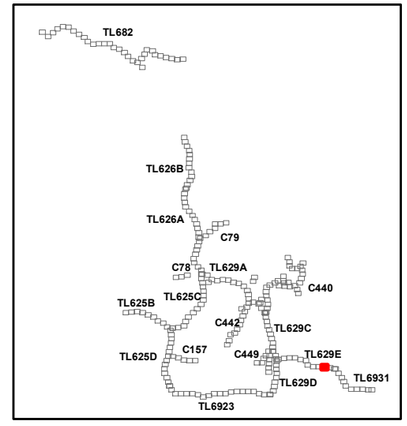
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Non-Native Grassland and Temporary Erosion Control
- Semi-Desert Chaparral



SDGE A Sempra Energy utility

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6/17/2016

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Attachment B-2:
TL629E
Prescribed Seed Mix
Map 11 of 12

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Semi-Desert Chaparral

[P40857]
[P40858]
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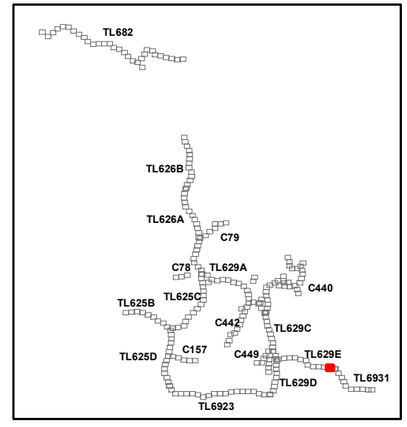
Z44225
P250025
P-3 NEW
Z44226
P250024
P-2 NEW
Z44227
Z44228
TL629E
Z44229
Z44230-31
Z44232
Z100145



SDGE A Sempra Energy utility
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6/17/2016

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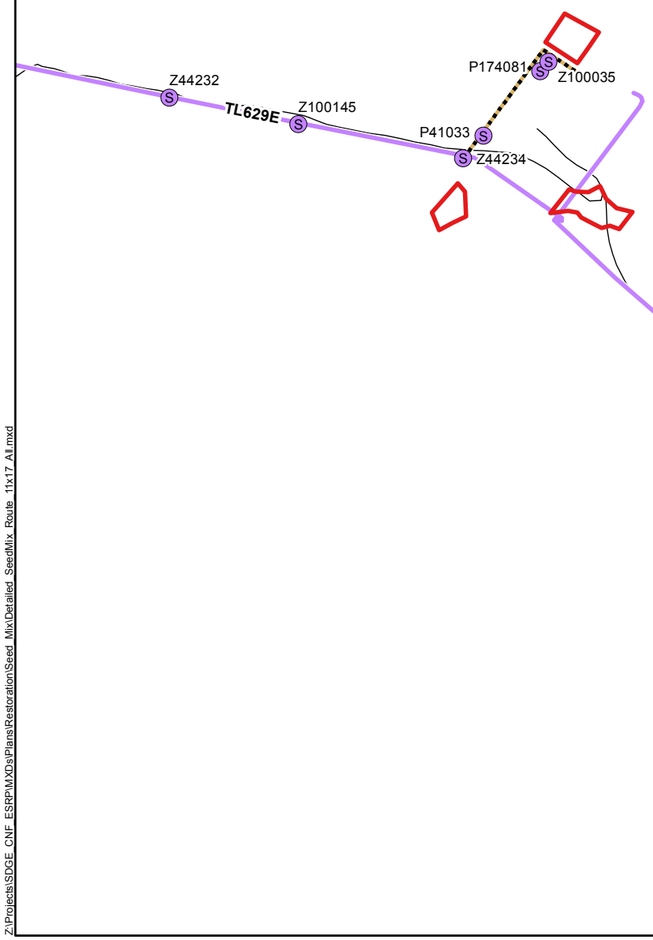
Attachment B-2:
TL629E
Prescribed Seed Mix
Map 12 of 12

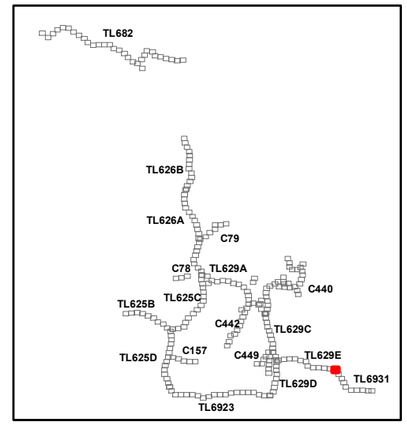
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Semi-Desert Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/17/2016

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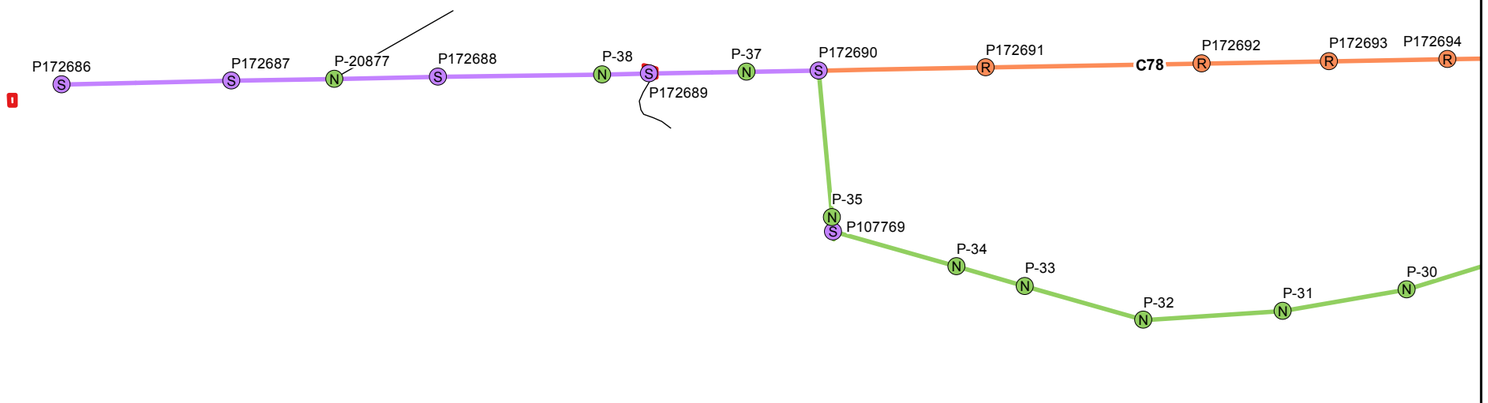
ATTACHMENT B-3: C78 PRESCRIBED SEED MIX APPLICATION MAPPING

Attachment B-3:
C78
Prescribed Seed Mix
Map 1 of 3

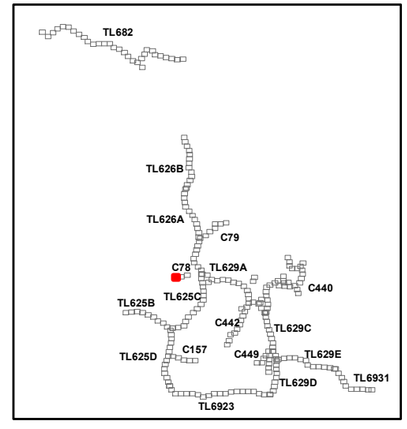
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub
- Non-Native Grassland and Erosion Control
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/17/2016

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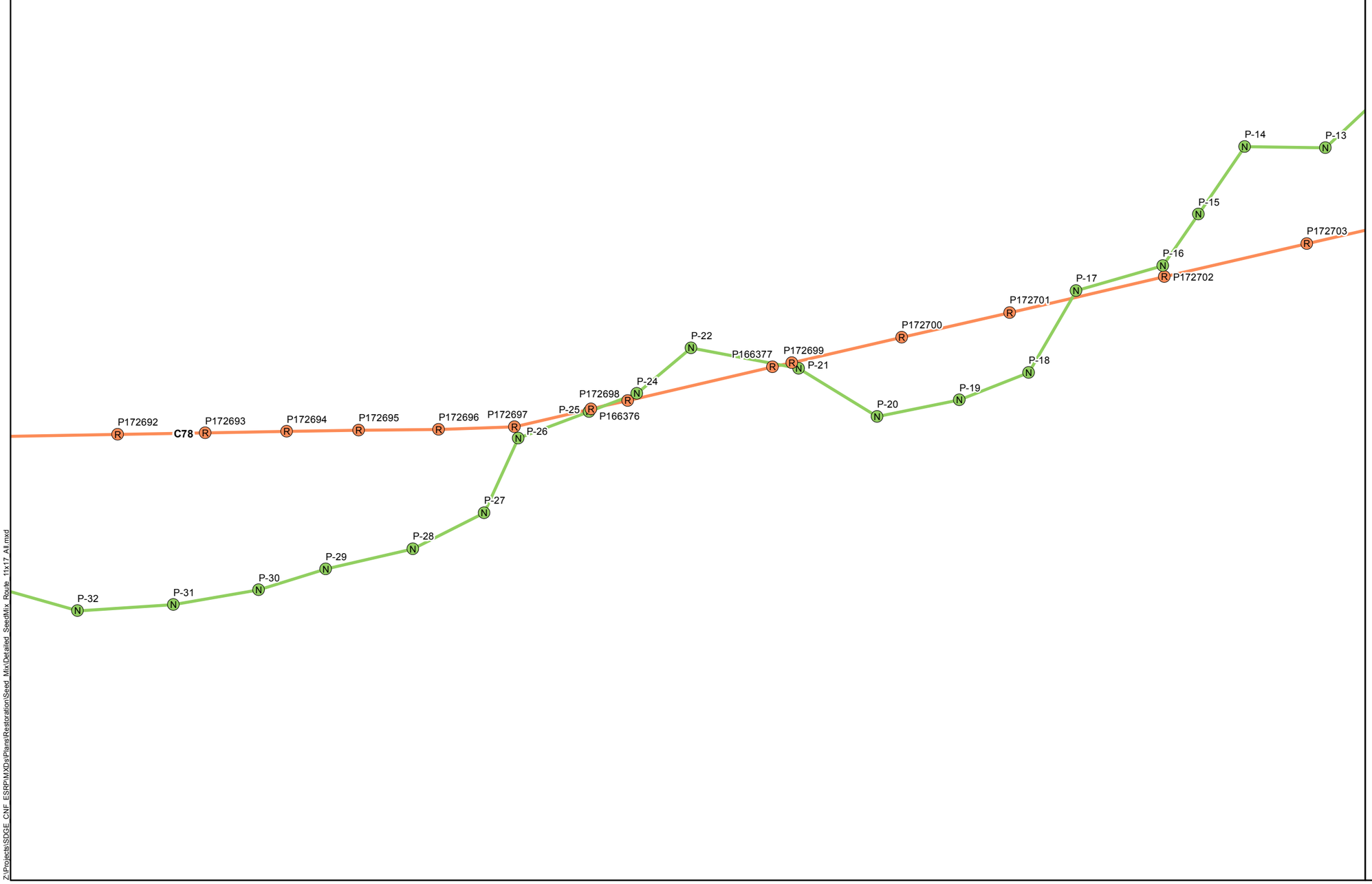
Attachment B-3:
C78
Prescribed Seed Mix
Map 2 of 3

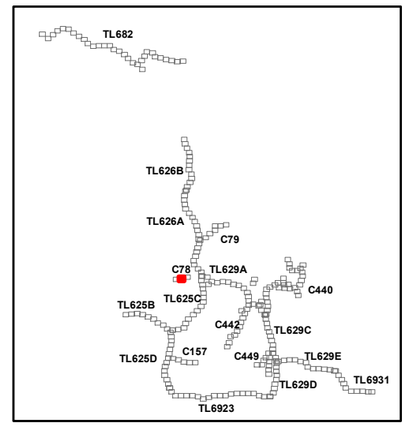
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Removal Pole
- New Steel
- Removal
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub
- Native Grassland
- Non-Native Grassland and Erosion Control
- Southern Mixed Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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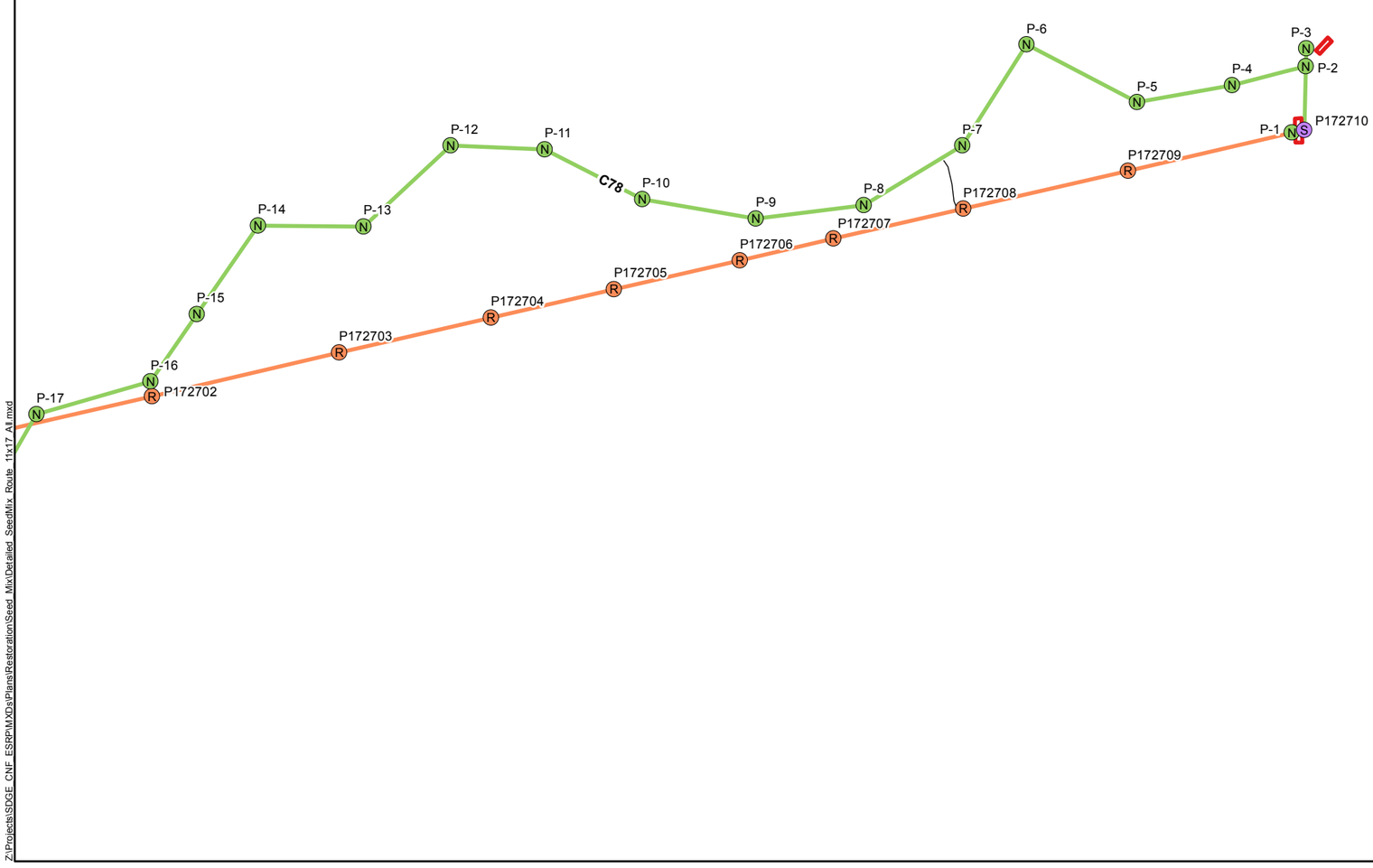
Attachment B-3:
C78
Prescribed Seed Mix
Map 3 of 3

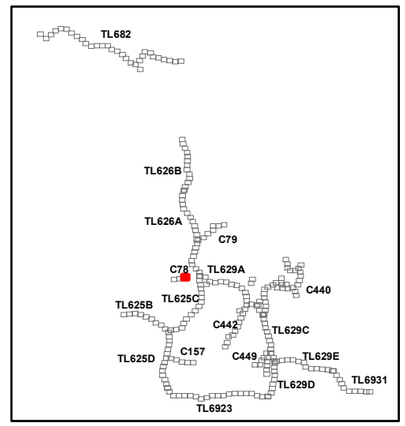
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub
- Native Grassland
- Non-Native Grassland and Erosion Control
- Southern Mixed Chaparral



SDGE A Sempra Energy utility
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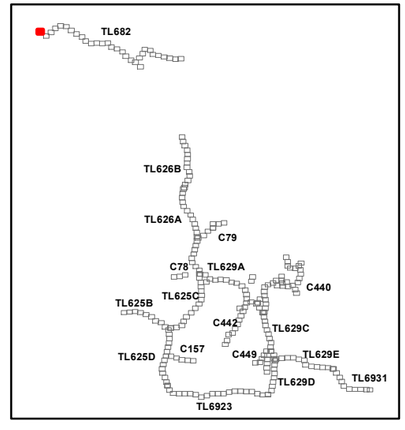
ATTACHMENT B-4: TL682 PRESCRIBED SEED MIX APPLICATION MAPPING

Attachment B-4:
TL682
Prescribed Seed Mix
Map 1 of 31

Cleveland National Forest
Power Line Replacement Projects

Staging Area

Access Road



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Feet

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6/21/2016

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Z115713
Z115712
Z115192
Z115191
P611297
Z115190
TL682
Z115189
Z115188
P518927
Z115187

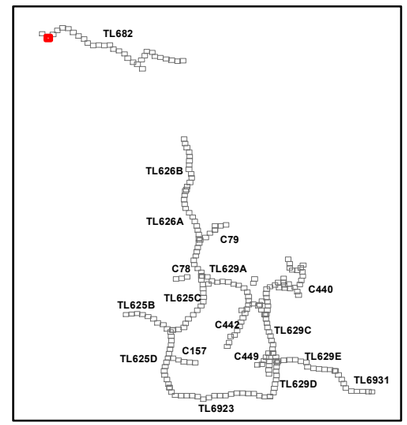
Attachment B-4:
TL682
Prescribed Seed Mix
Map 2 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement
- Wood-to-Steel
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland



SDGE A Sempra Energy utility
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0 200 400 Feet

6/21/2016

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Z118007
Z118006
Z118005
Z118004
Z118003
P204379
Z118002
TL682
Z118001
Z115714
Z115713
Z115712
Z115192
Z115191
P611297
Z115190

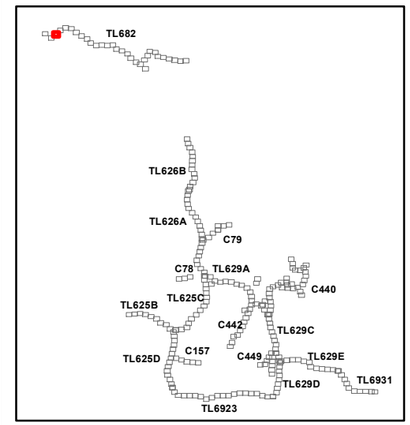
Attachment B-4:
TL682
Prescribed Seed Mix
Map 3 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland



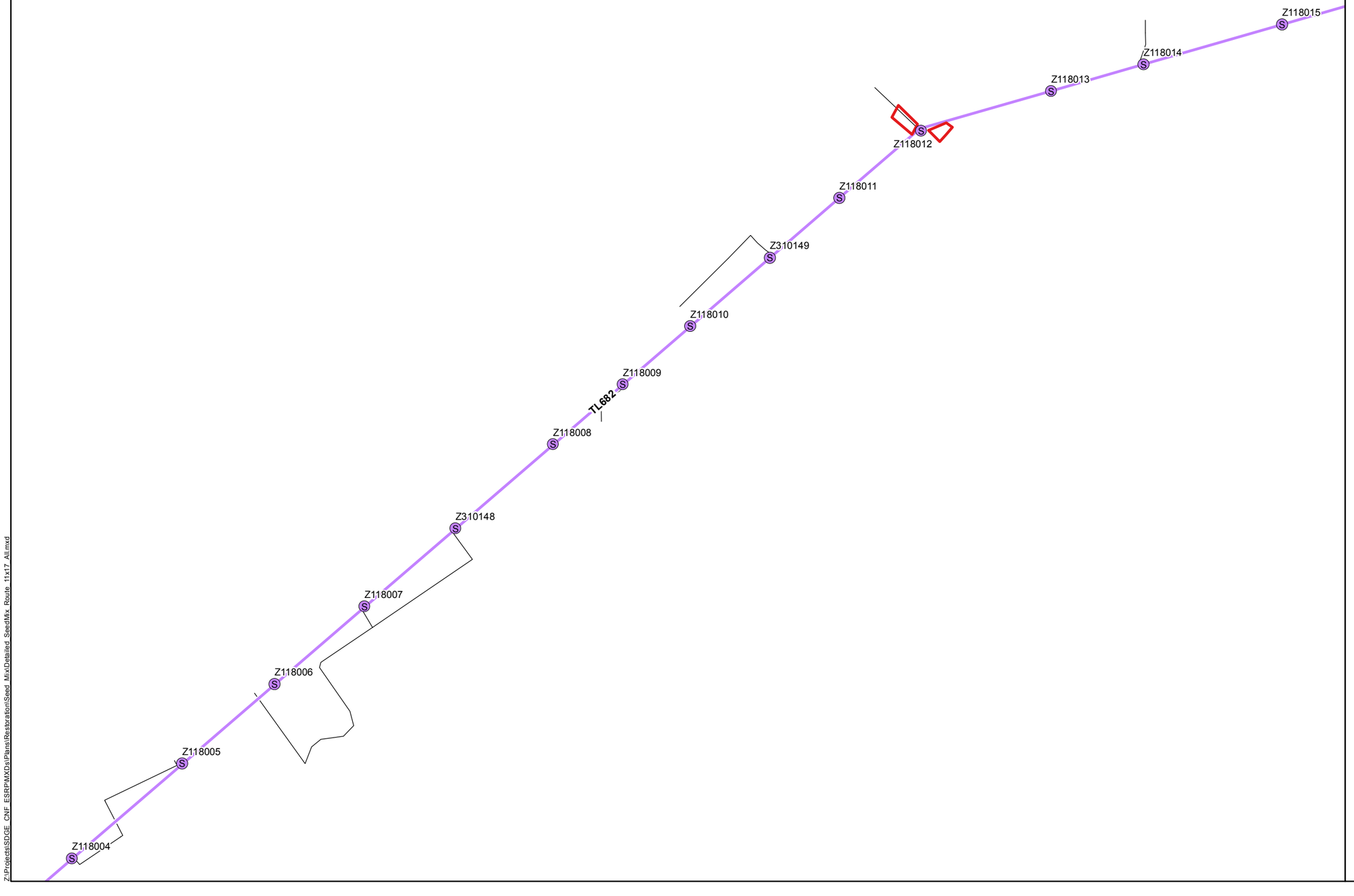
SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

1:4,260
0 200 400 Feet

6/21/2016

Attachment B-4:
TL682
Prescribed Seed Mix
Map 4 of 31

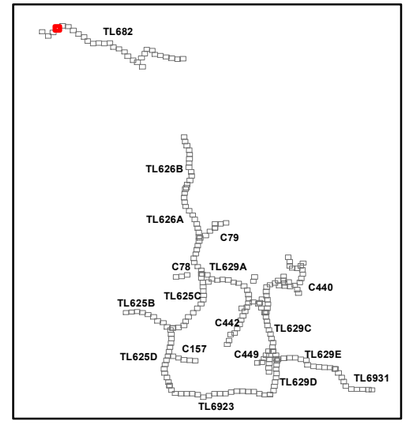
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Non-Native Grassland and Erosion Control



SDGE a Sempra Energy utility

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0 200 400 Feet

6/21/2016

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Attachment B-4:
TL682
Prescribed Seed Mix
Map 5 of 31

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

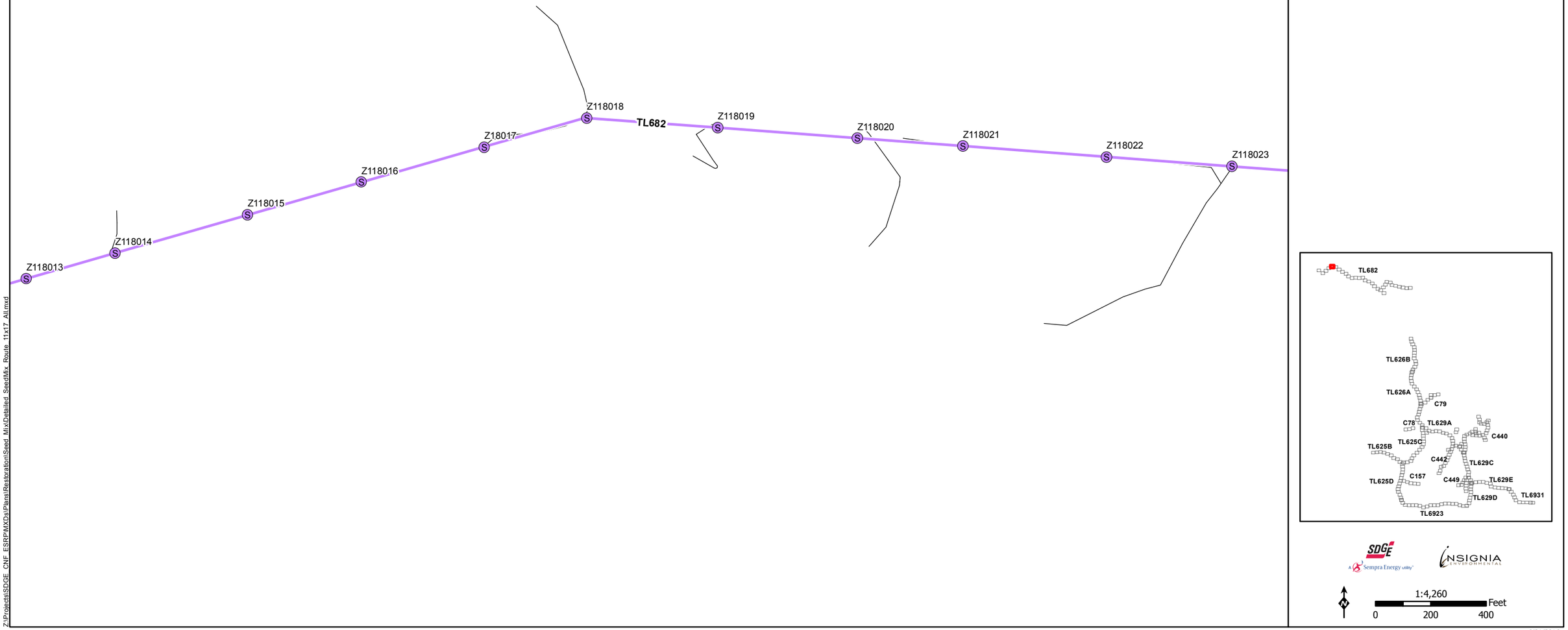
Wood-to-Steel Replacement

Access Road

Seed Mix Types

Non-Native Grassland and Erosion Control

Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

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6/21/2016

Attachment B-4:
TL682
Prescribed Seed Mix
Map 6 of 31

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

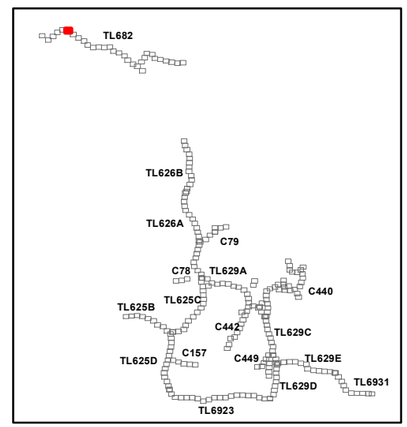
Wood-to-Steel Replacement

Access Road

Seed Mix Types

Coast Live Oak Woodland, Mixed Oak Woodland

Z118022
Z118023
Z118024
P412832
TL682
Z118026
Z118027
Z118028
Z118029
Z118030
Z118031



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Z118034
TL682
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P112105
P714736
Z118036
Z711236
Z118037
Z118038
Z118039
Z118040
Z118041

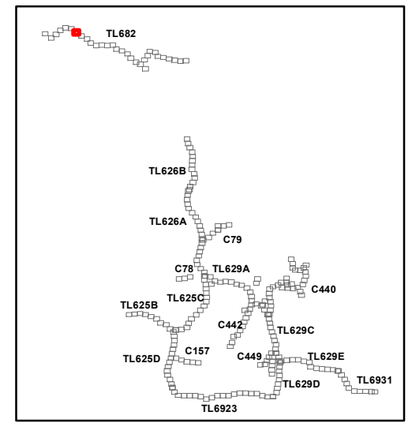
Attachment B-4:
TL682
Prescribed Seed Mix
Map 7 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Non-Native Grassland and Erosion Control



SDGE A Sempra Energy utility
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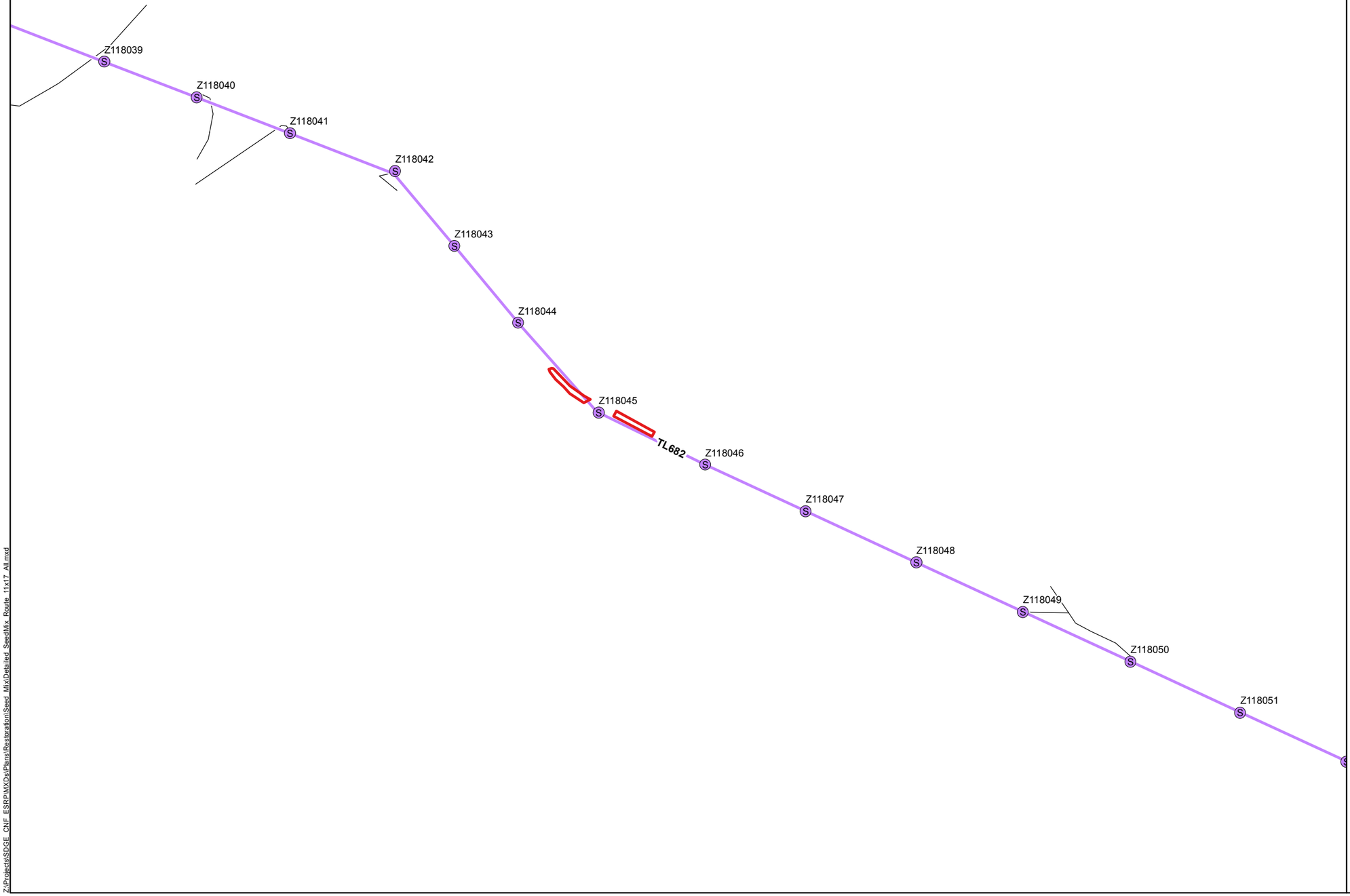


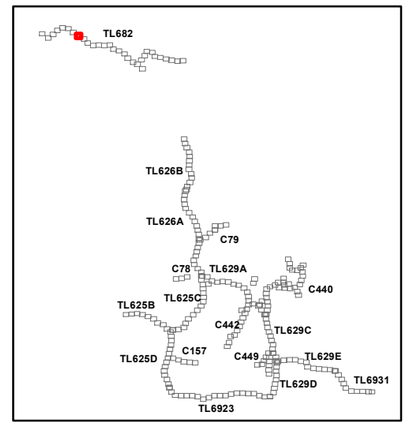
Attachment B-4:
TL682
Prescribed Seed Mix
Map 8 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Non-Native Grassland and Erosion Control



SDGE A Sempra Energy utility
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6/21/2016

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Z118054
Z118055
TL682
Z118056
Z118057
Z118058
Z118059
Z118060
Z118061
Z118062

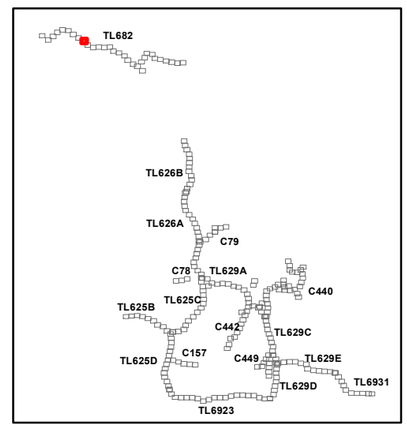
Attachment B-4:
TL682
Prescribed Seed Mix
Map 9 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Non-Native Grassland and Erosion Control



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

1:4,260
0 200 400 Feet

6/21/2016

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Z118063
Z118064
Z617763
Z118066
TL682
Z118067
Z118068
Z118069
Z118070
Z118071
Z118072

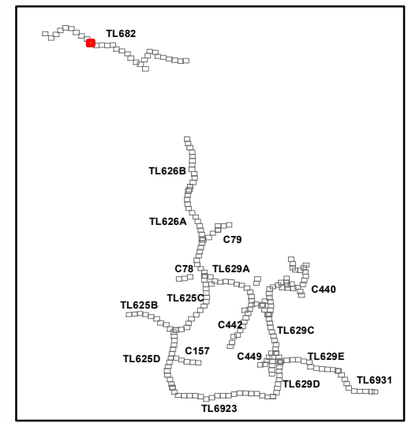
Attachment B-4:
TL682
Prescribed Seed Mix
Map 10 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Coast Live Oak Woodland, Mixed Oak Woodland
- Non-Native Grassland and Erosion Control



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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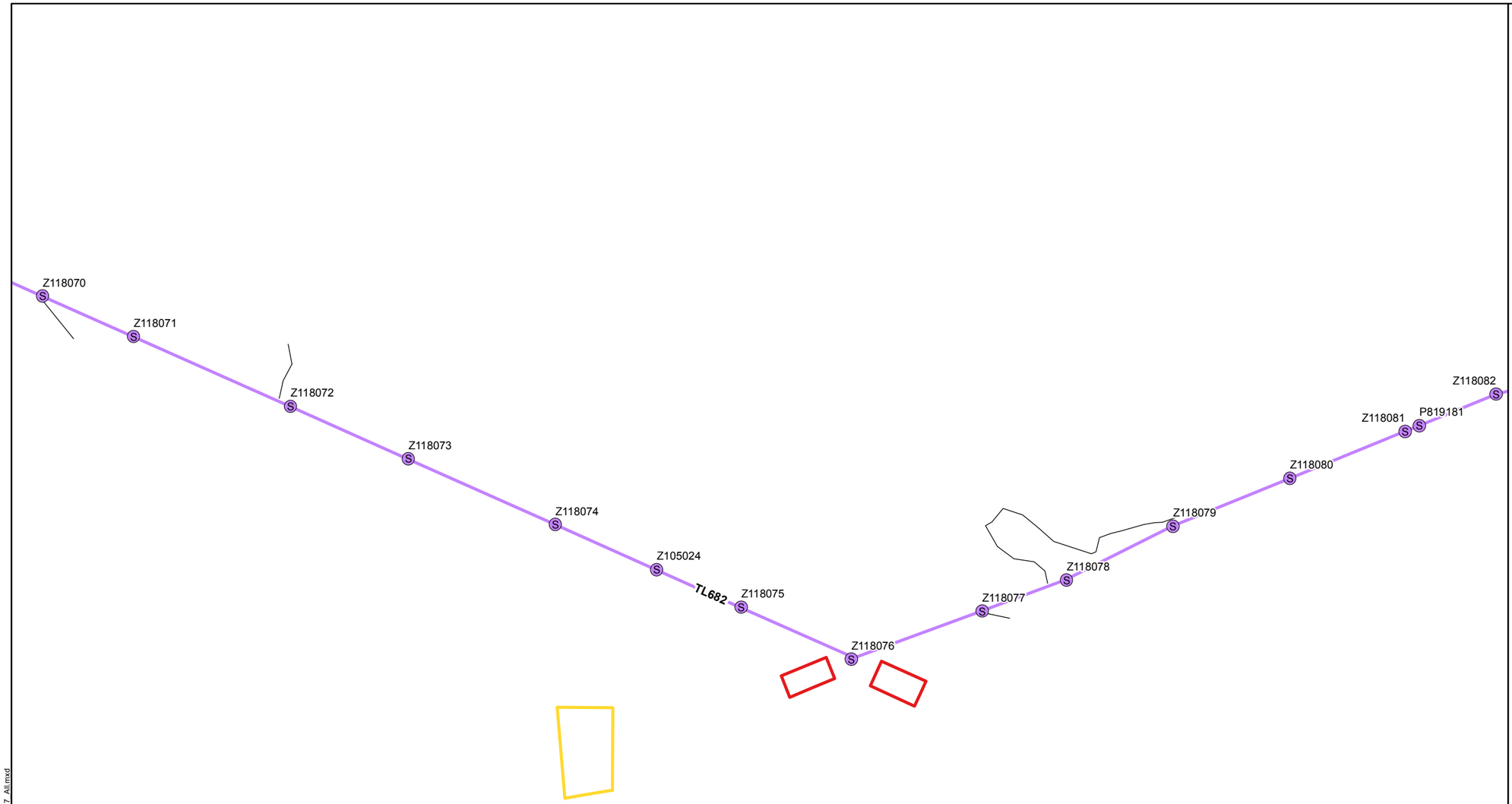
6/21/2016

Attachment B-4:
TL682
Prescribed Seed Mix
Map 11 of 31

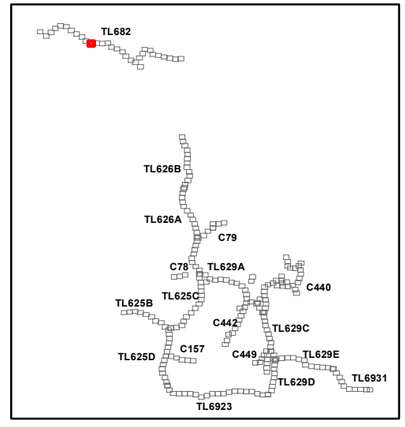
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Native Grassland Seed Mix
- Non-Native Grassland and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/21/2016

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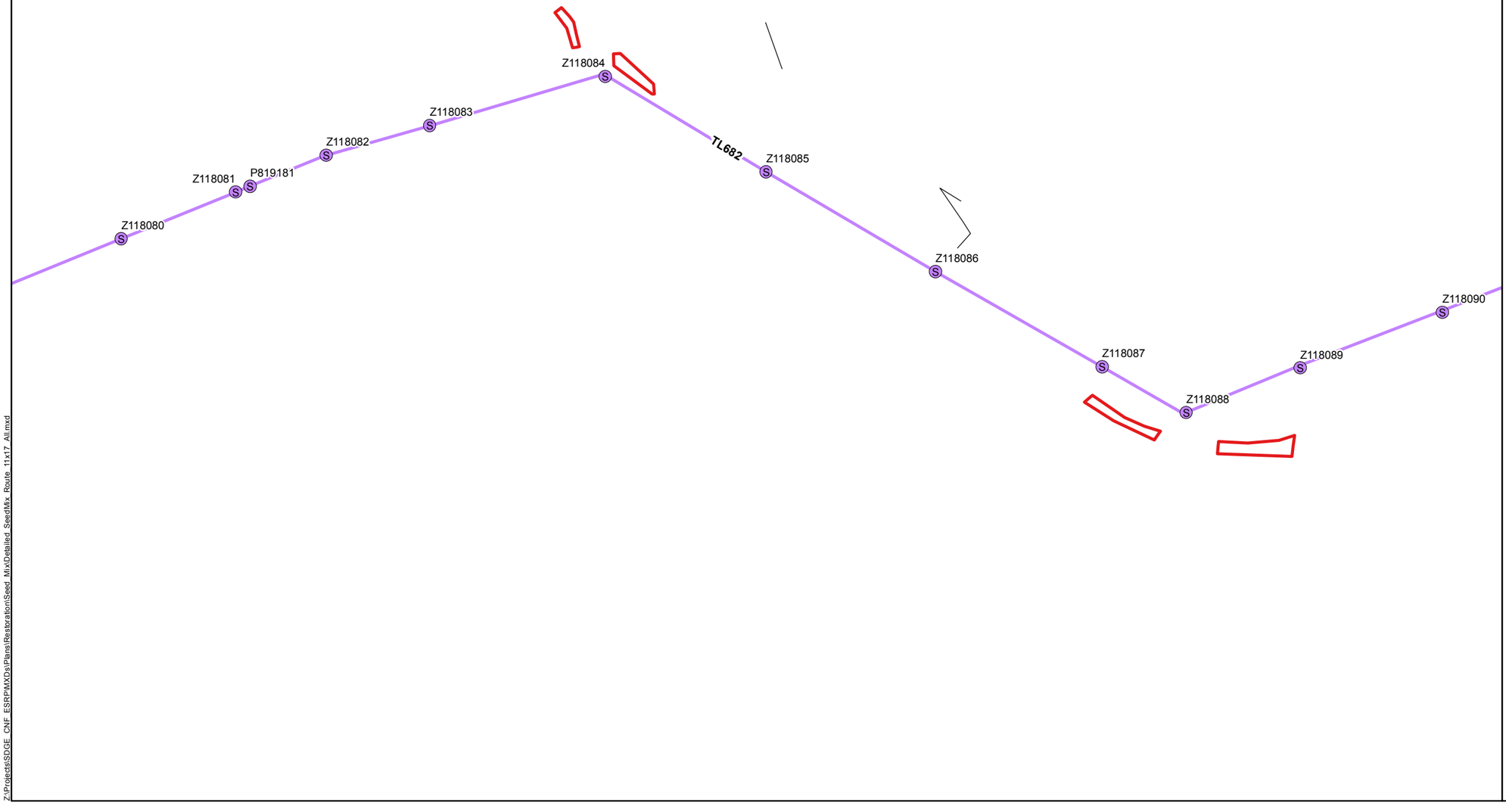
Attachment B-4:
TL682
Prescribed Seed Mix
Map 12 of 31

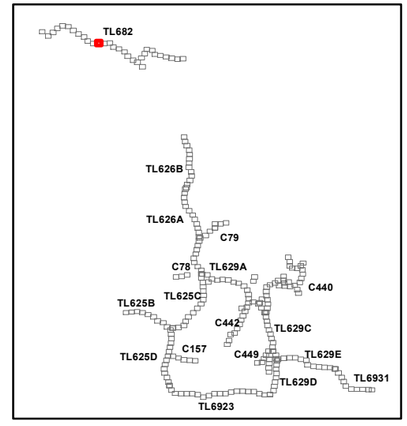
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Coastal Sage / Chaparral
- Native Grassland Seed Mix



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/21/2016

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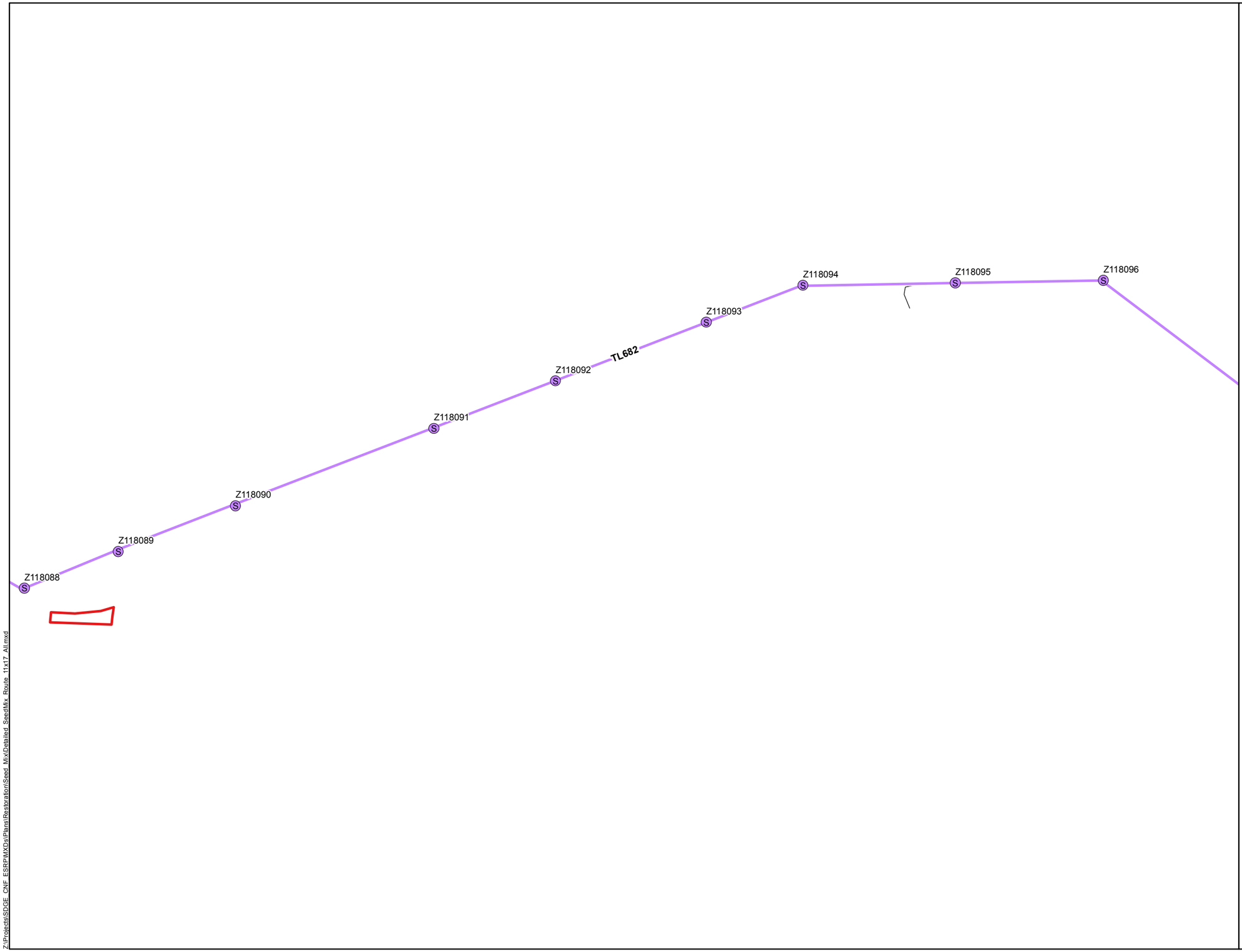
Attachment B-4:
TL682
Prescribed Seed Mix
Map 13 of 31

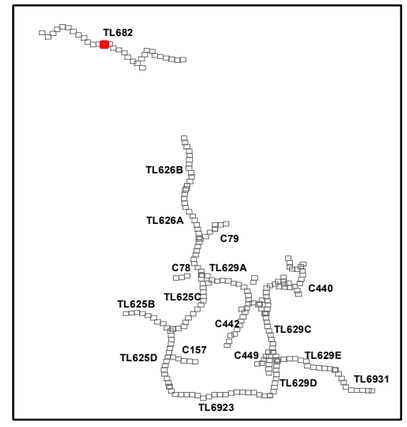
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Coastal Sage / Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/21/2016

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Attachment B-4:
TL682
Prescribed Seed Mix
Map 14 of 31

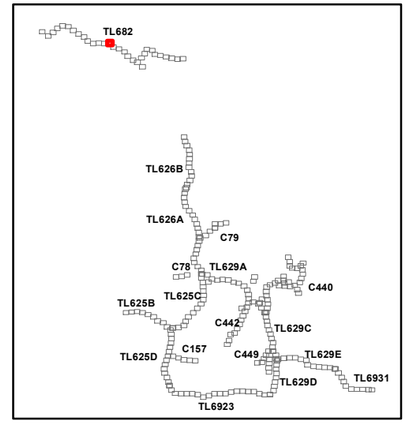
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland

Z118096
Z118097
Z118098
Z118099
TL682
Z118100
Z118101
Z118102
Z118103
Z118104



SDGE a Sempra Energy utility
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6/21/2016

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Z118103
Z118104
Z118105
Z118106
TL682
Z118107
Z118108
Z118109
Z118110
Z118111
Z118112

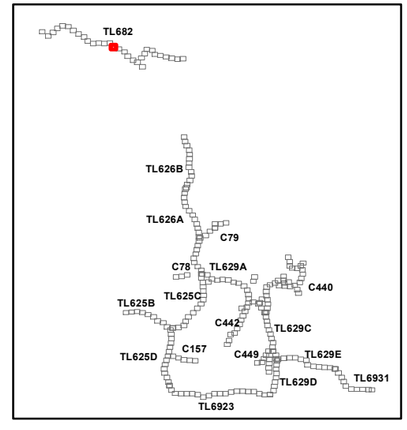
Attachment B-4:
TL682
Prescribed Seed Mix
Map 15 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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6/21/2016

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Z118113
Z118114
Z118115
P317946
Z118116
TL682
Z118117
Z118118
Z118119
Z118120
Z118121
Z118122
Z202586

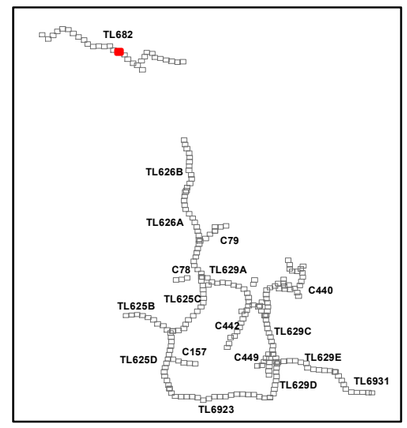
Attachment B-4:
TL682
Prescribed Seed Mix
Map 16 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

1:4,260
0 200 400 Feet

6/21/2016

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Z118120
Z118121
Z118122
TL682
Z202586
Z118123
Z118124
Z118125
Z118126
Z118127
Z118128
Z118129

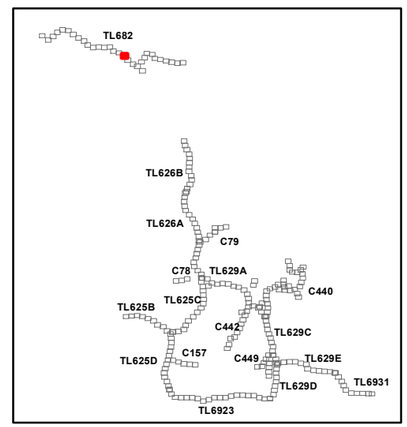
Attachment B-4:
TL682
Prescribed Seed Mix
Map 17 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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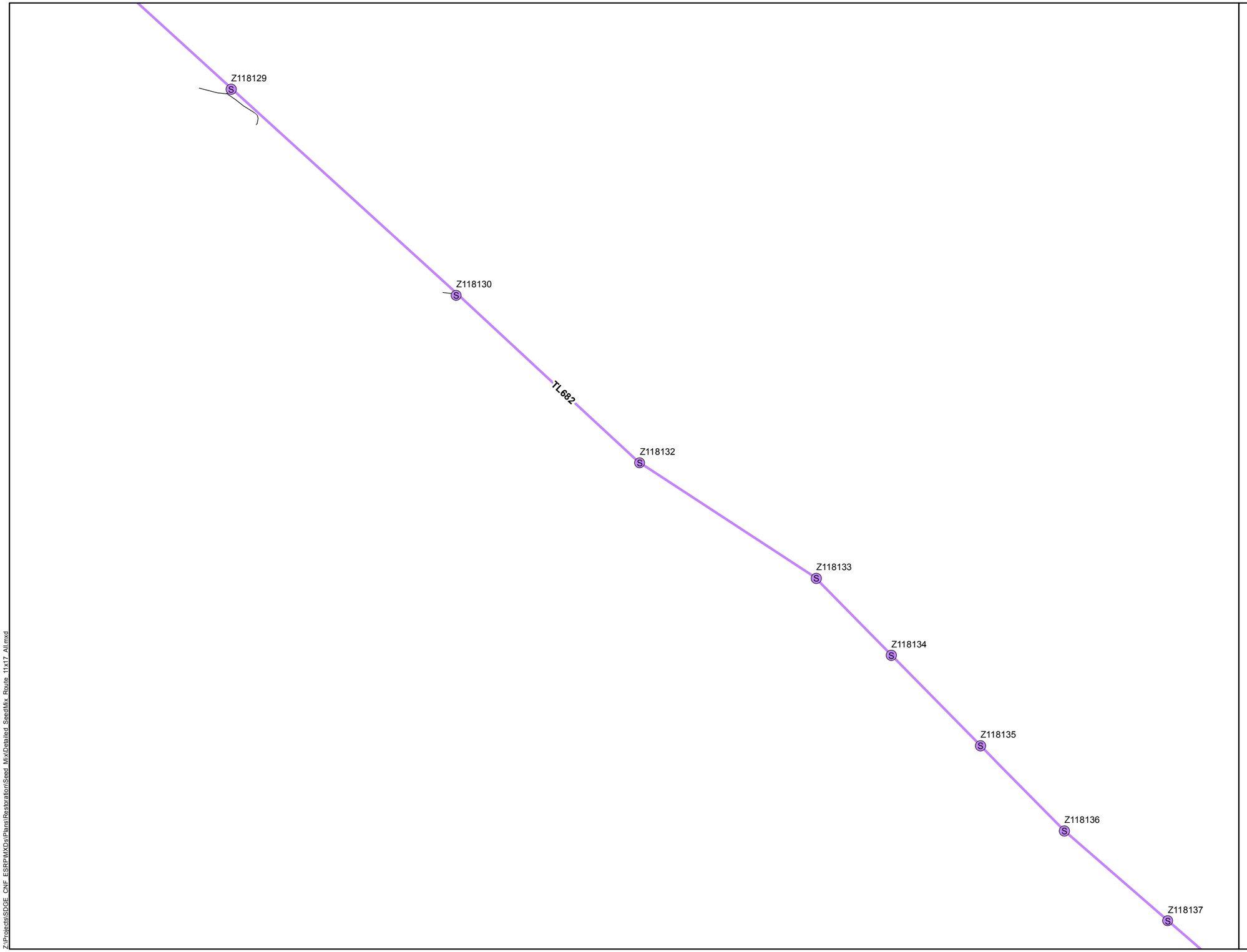
0 200 400 Feet

6/21/2016

Attachment B-4:
TL682
Prescribed Seed Mix
Map 18 of 31

Cleveland National Forest
Power Line Replacement Projects



Wood-to-Steel Replacement Pole

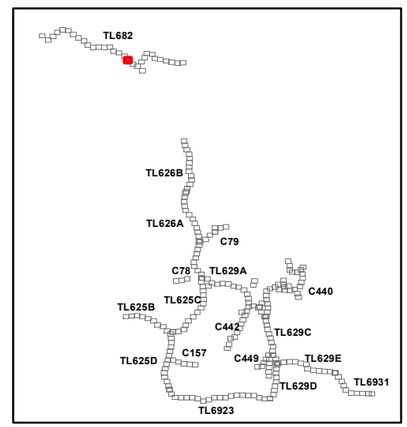
Wood-to-Steel Replacement

Access Road

Seed Mix Types

Coast Live Oak Woodland, Mixed Oak Woodland

Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/21/2016

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Z118138
Z118139
Z118140
Z118141
Z118142
TL682
Z118143
Z118144
Z118145
Z118146
Z118147
Z118148

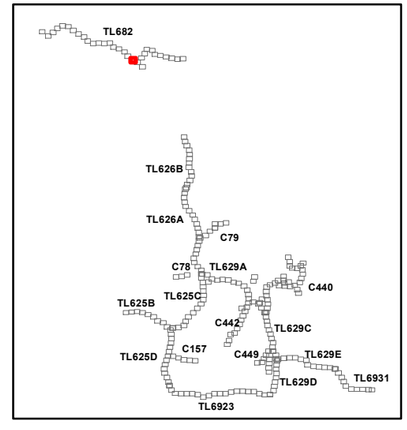
Attachment B-4:
TL682
Prescribed Seed Mix
Map 19 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

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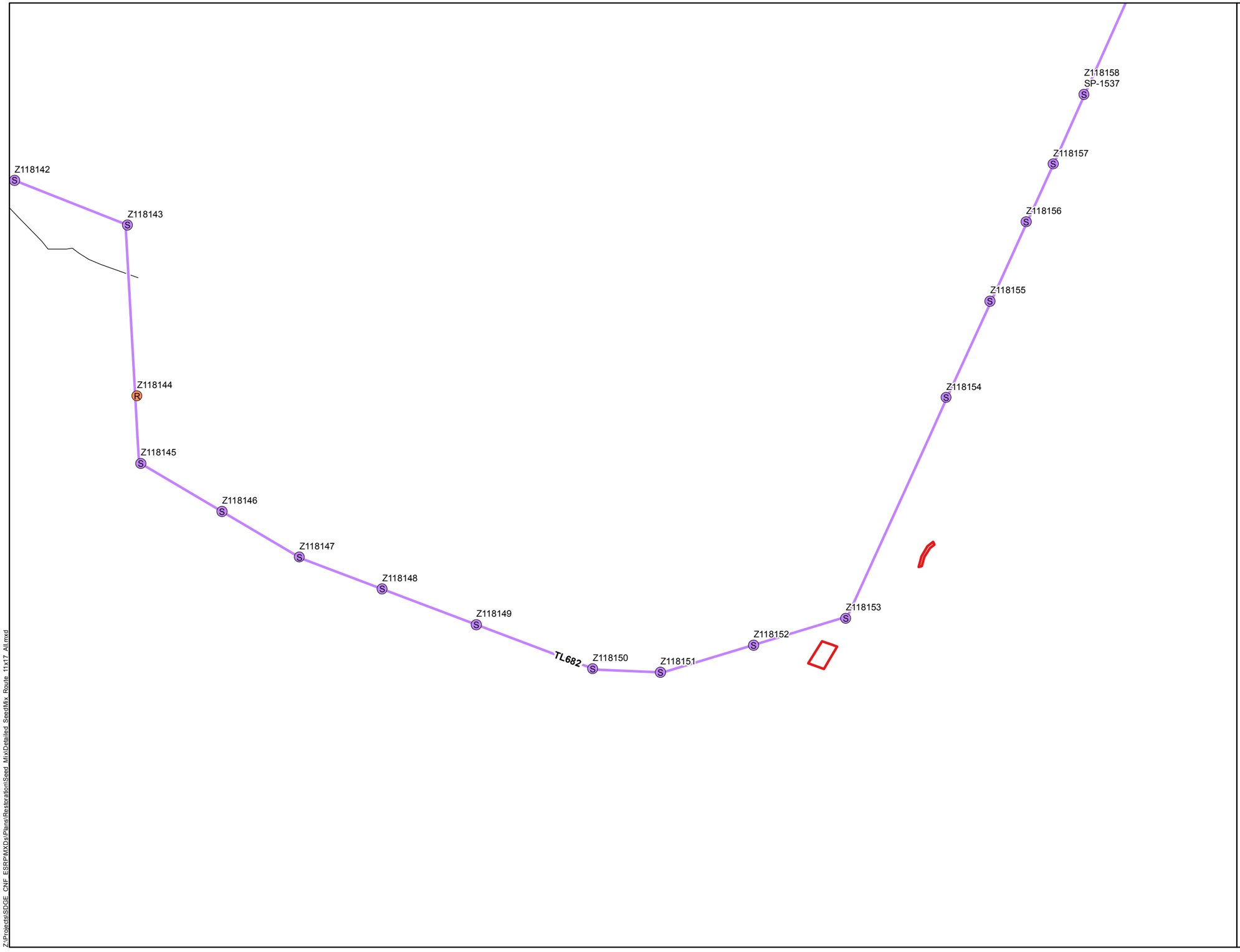
Attachment B-4:
TL682
Prescribed Seed Mix
Map 20 of 31

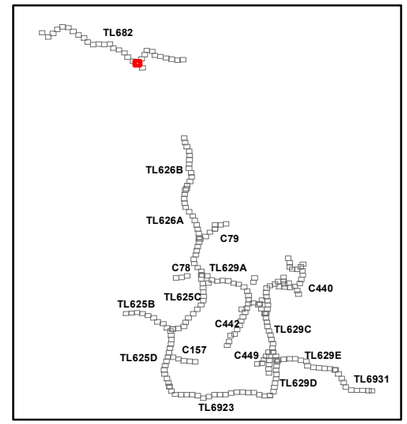
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment B-4:
TL682
Prescribed Seed Mix
Map 21 of 31

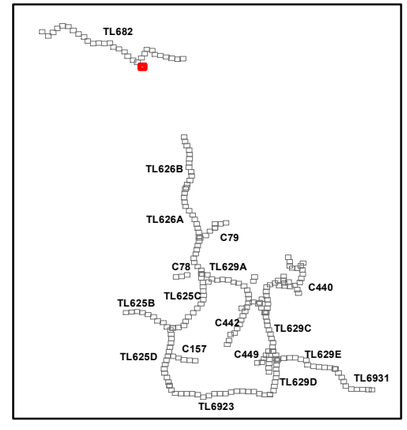
Cleveland National Forest
Power Line Replacement Projects

Staging Area

Access Road

Seed Mix Types

Non-Native Grassland and Erosion Control



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Z118166
Z118165
Z118164
TL682
Z118163
Z118162
Z118161
SP-1538
Z118158
SP-1537
Z118157
Z118156

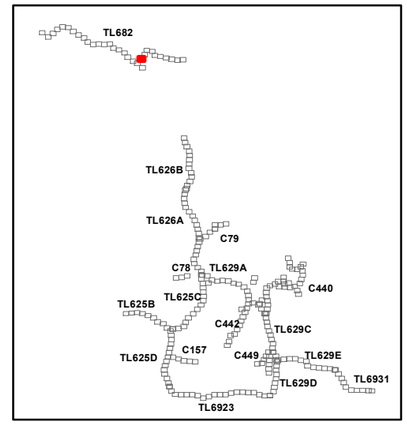
Attachment B-4:
TL682
Prescribed Seed Mix
Map 22 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/21/2016



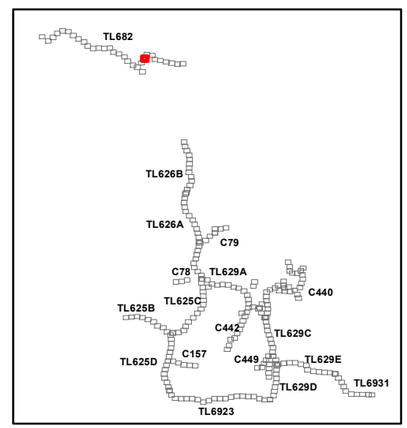
Attachment B-4:
TL682
Prescribed Seed Mix
Map 23 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Big Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland Seed Mix
- Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/21/2016

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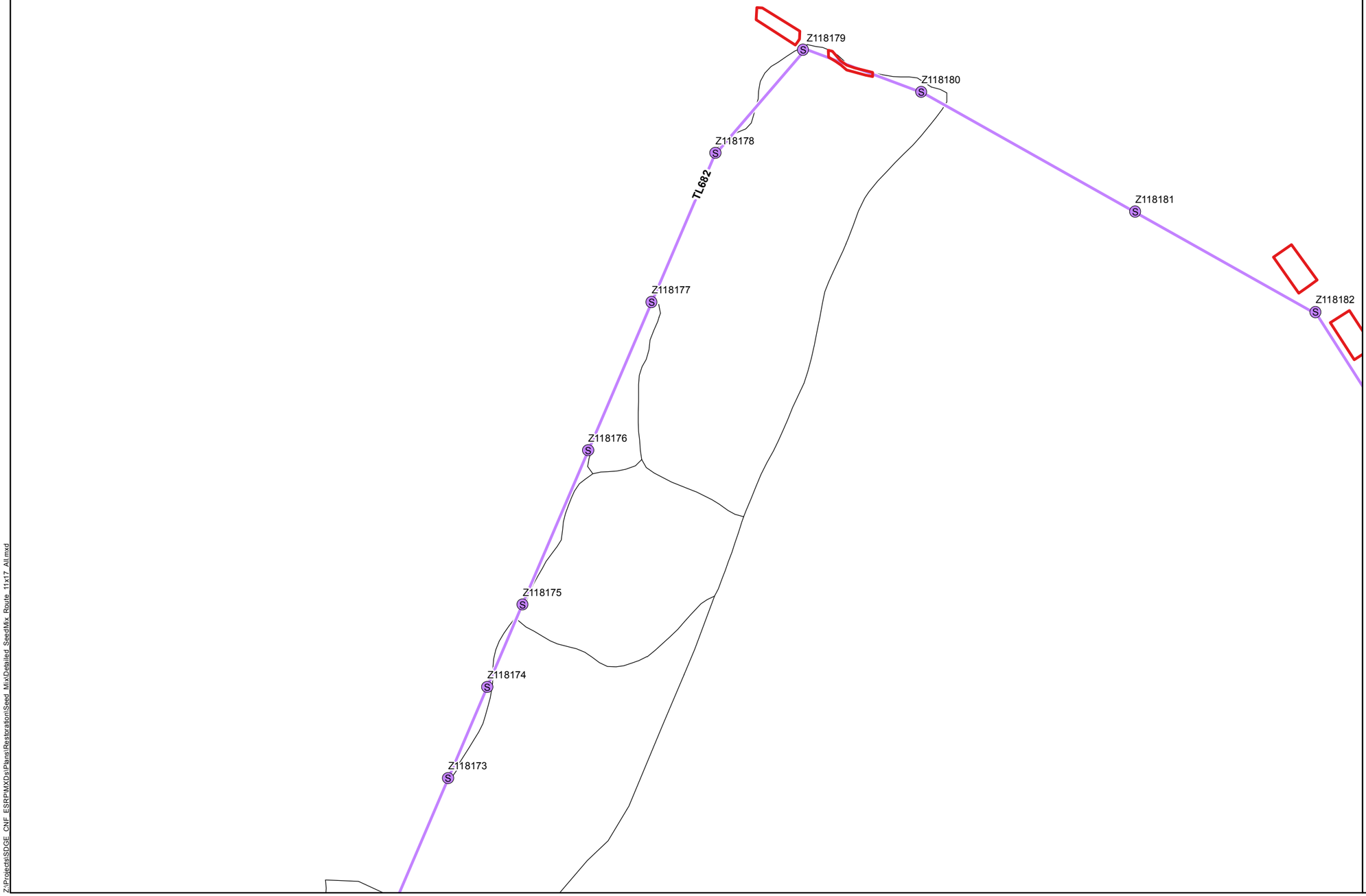
Attachment B-4:
TL682
Prescribed Seed Mix
Map 24 of 31

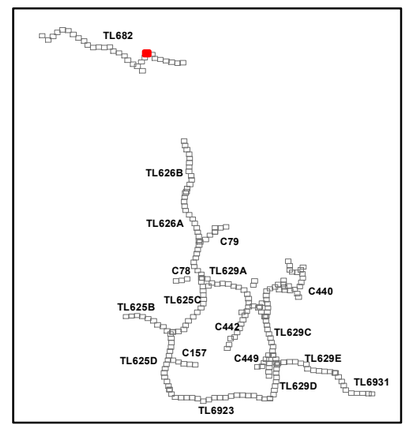
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland Seed Mix
- Coast Live Oak Woodland, Mixed Oak Woodland
- Non-Native Grassland and Erosion Control



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/21/2016

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Z118181
Z118182
Z118183
Z118184
TL682
Z118185
Z118186
Z118187
Z118188
Z118189

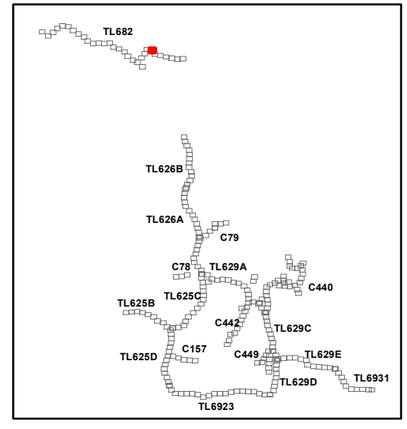
Attachment B-4:
TL682
Prescribed Seed Mix
Map 25 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Non-Native Grassland and Erosion Control



SDGE a Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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Z118187
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Z118190
Z118191
Z118192
TL682
Z118193
Z118194
Z118195
Z118196
Z118197
Z118198

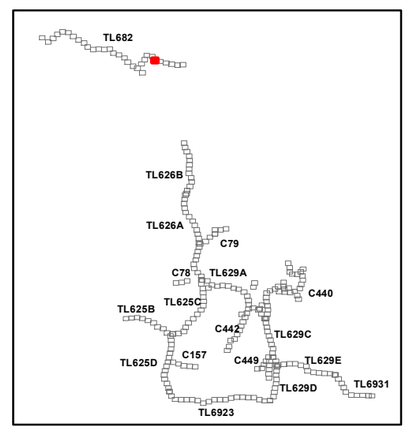
Attachment B-4:
TL682
Prescribed Seed Mix
Map 26 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Non-Native Grassland and Erosion Control



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/21/2016

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Z118197
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Z118200
Z118201
TL682
Z118202
Z118203
Z118204
Z118205
Z118206
Z118207

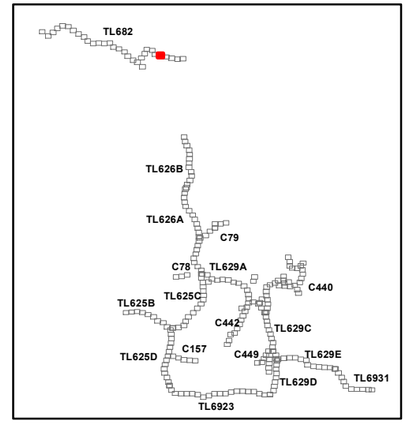
Attachment B-4:
TL682
Prescribed Seed Mix
Map 27 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Non-Native Grassland and Erosion Control



SDGE a Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/21/2016

Attachment B-4:
TL682
Prescribed Seed Mix
Map 28 of 31

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole
Wood-to-Steel Replacement
Stringing Site
Access Road

Seed Mix Types

Non-Native Grassland and Erosion Control

Z118206
Z118207
Z118208
Z118209
Z118210
Z118211
TL682
Z118212
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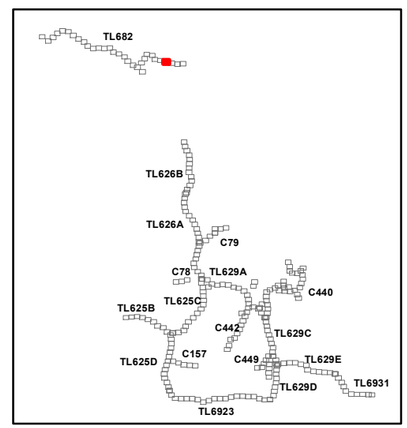
Z210985
Z118215
Z118216



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/21/2016

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Attachment B-4:
TL682
Prescribed Seed Mix
Map 29 of 31

Cleveland National Forest
Power Line Replacement Projects

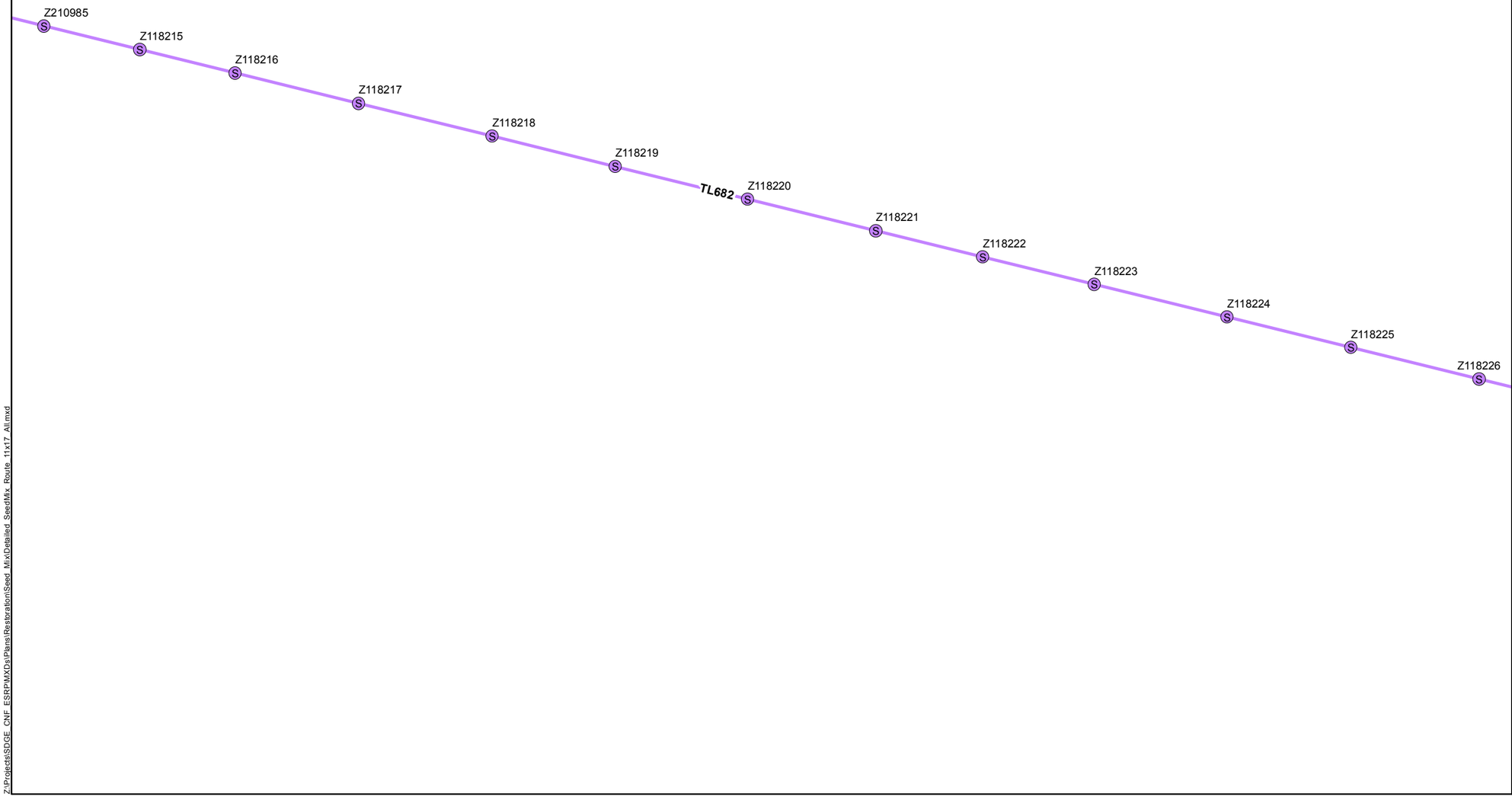
Wood-to-Steel Replacement Pole

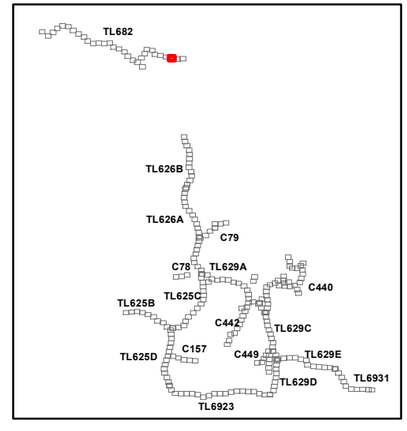
Wood-to-Steel Replacement

Access Road

Seed Mix Types

Non-Native Grassland and Erosion Control





SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment B-4:
TL682
Prescribed Seed Mix
Map 30 of 31

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

Seed Mix Types

Coast Live Oak Woodland, Mixed Oak Woodland

Non-Native Grassland and Erosion Control

Z118224
Z118225
Z118226
Z118227
Z118228
Z118229
TL682
Z118230
Z118231
Z118232
Z118233
Z118234
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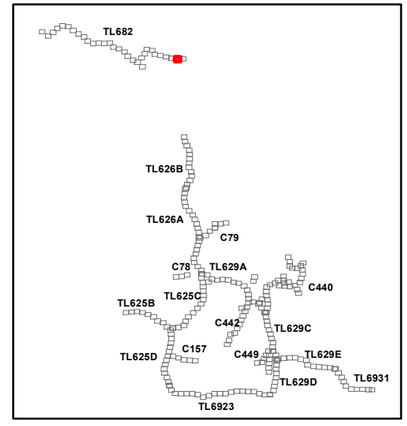
Z118235



SDGE a Sempra Energy utility

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6/21/2016

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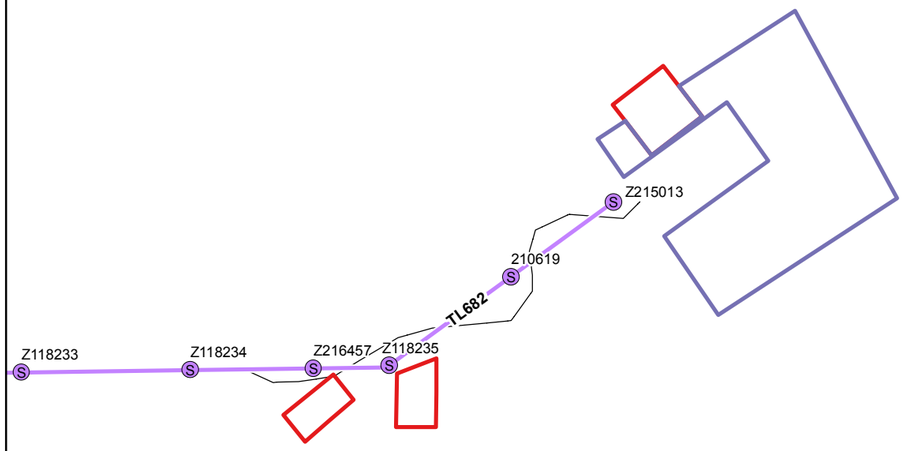


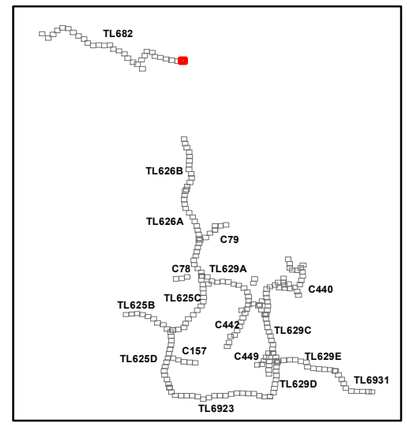
Attachment B-4:
TL682
Prescribed Seed Mix
Map 31 of 31

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Coast Live Oak Woodland, Mixed Oak Woodland
- Non-Native Grassland and Erosion Control



SDGE A Sempra Energy utility

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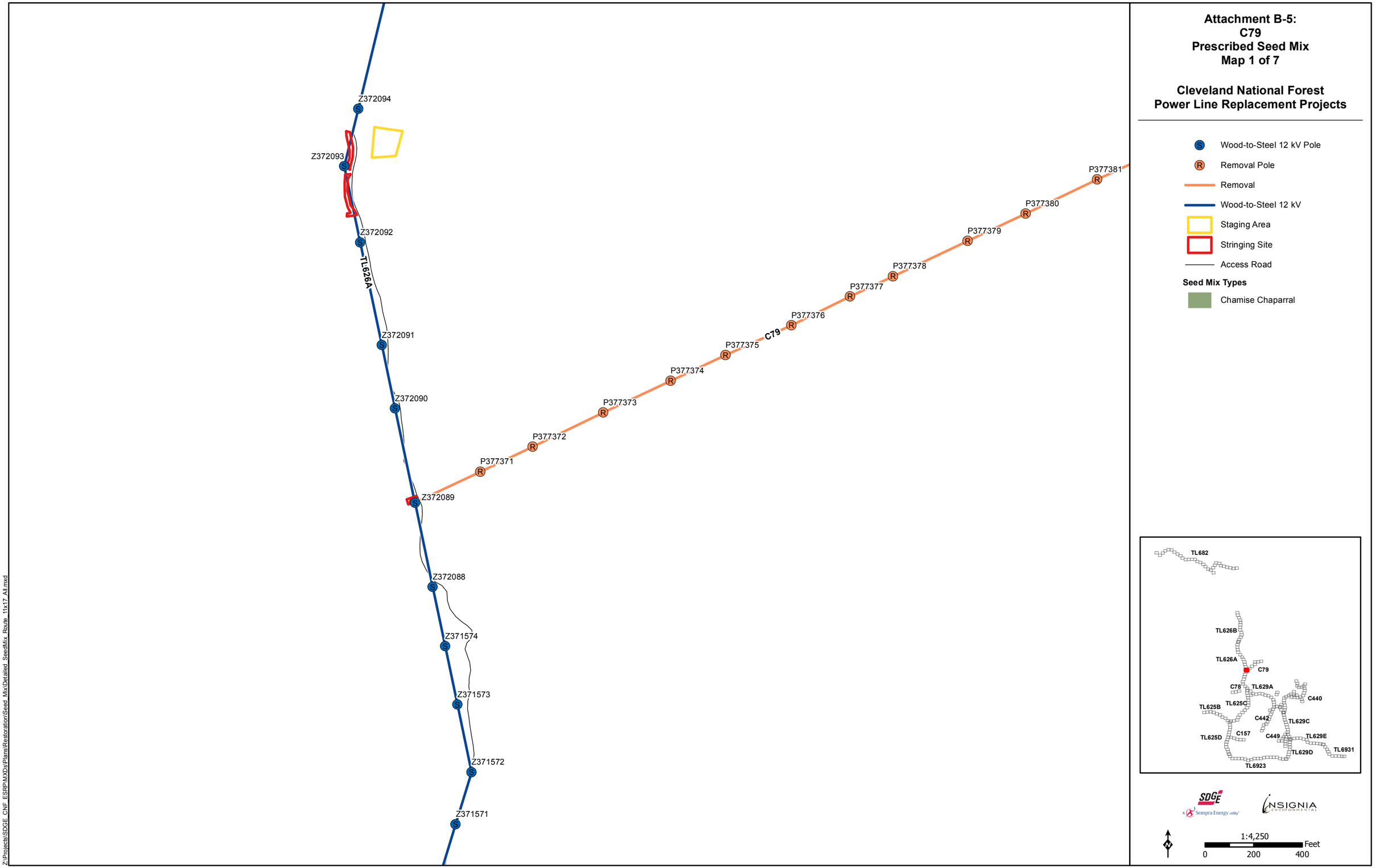
ATTACHMENT B-5: C79A PRESCRIBED SEED MIX APPLICATION MAPPING


Attachment B-5:
C79
Prescribed Seed Mix
Map 1 of 7
Cleveland National Forest
Power Line Replacement Projects
Wood-to-Steel 12 kV Pole
Removal Pole
Removal
Wood-to-Steel 12 kV
Staging Area
Stringing Site
Access Road
Seed Mix Types
Chamise Chaparral
Z372094
Z372093
Z372092
TL626A
Z372091
Z372090
Z372089
Z372088
Z371574
Z371573
Z371572
Z371571
P377371
P377372
P377373
P377374
P377375
C79
P377376
P377377
P377378
P377379
P377380
P377381
TL682
TL626B
TL626A
C79
C78
TL629A
C440
TL625B
TL625C
C442
TL629C
TL625D
C157
C449
TL629E
TL629D
TL6931
TL6923
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A Sempra Energy utility
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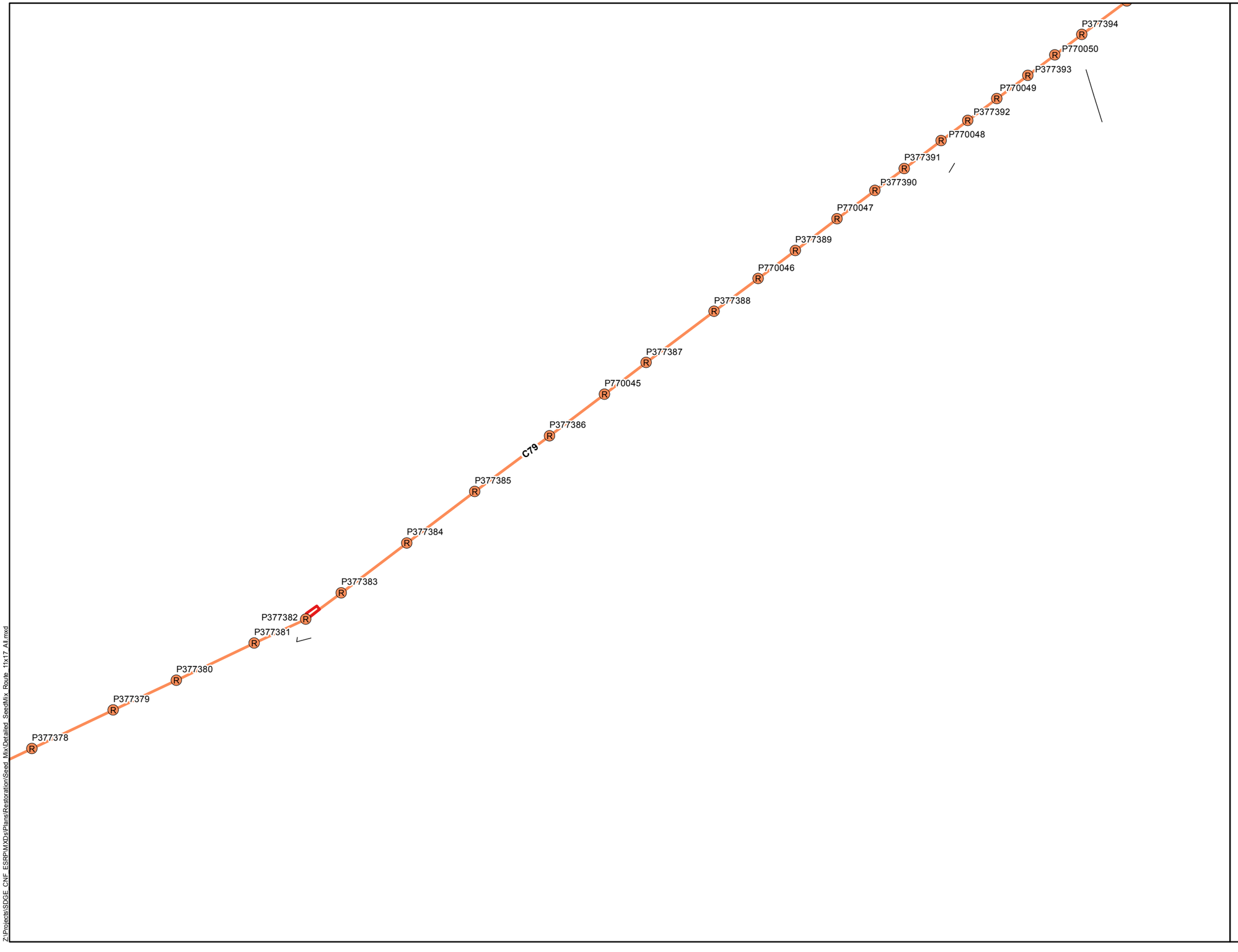


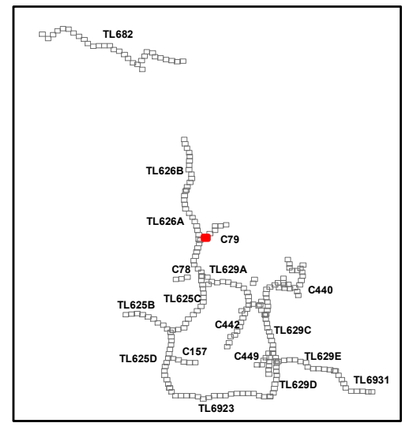
Attachment B-5:
C79
Prescribed Seed Mix
Map 2 of 7

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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6/17/2016

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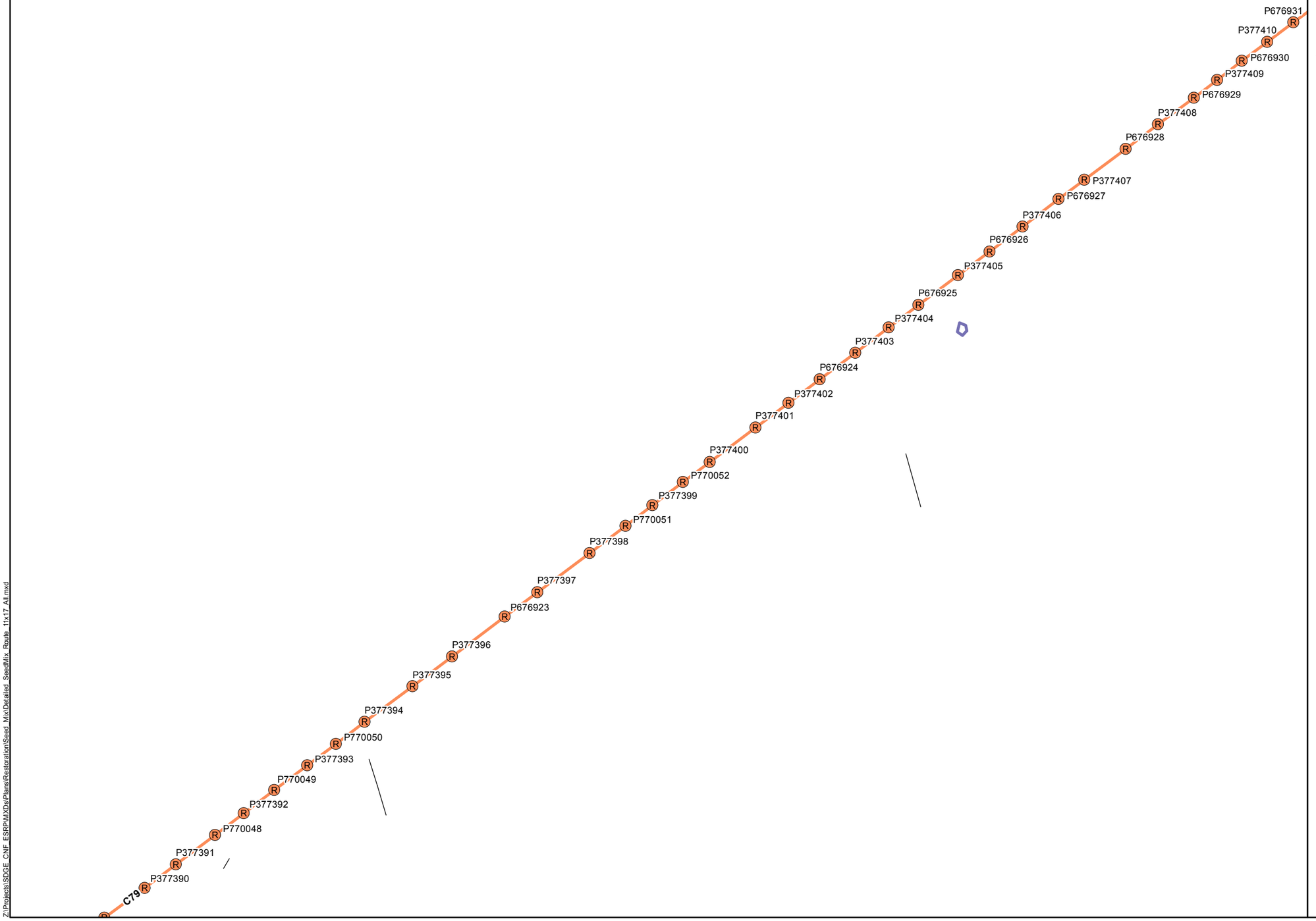
Attachment B-5:
C79
Prescribed Seed Mix
Map 3 of 7

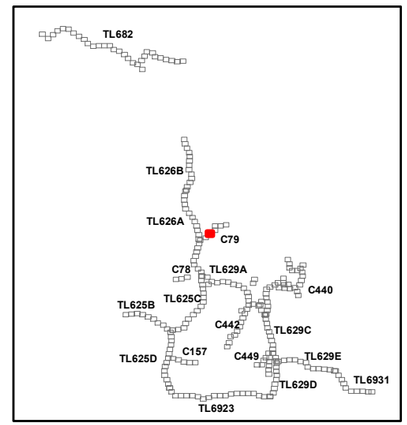
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Fly Yard and Staging
- Access Road

Seed Mix Types

- Montane Forest, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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6/17/2016

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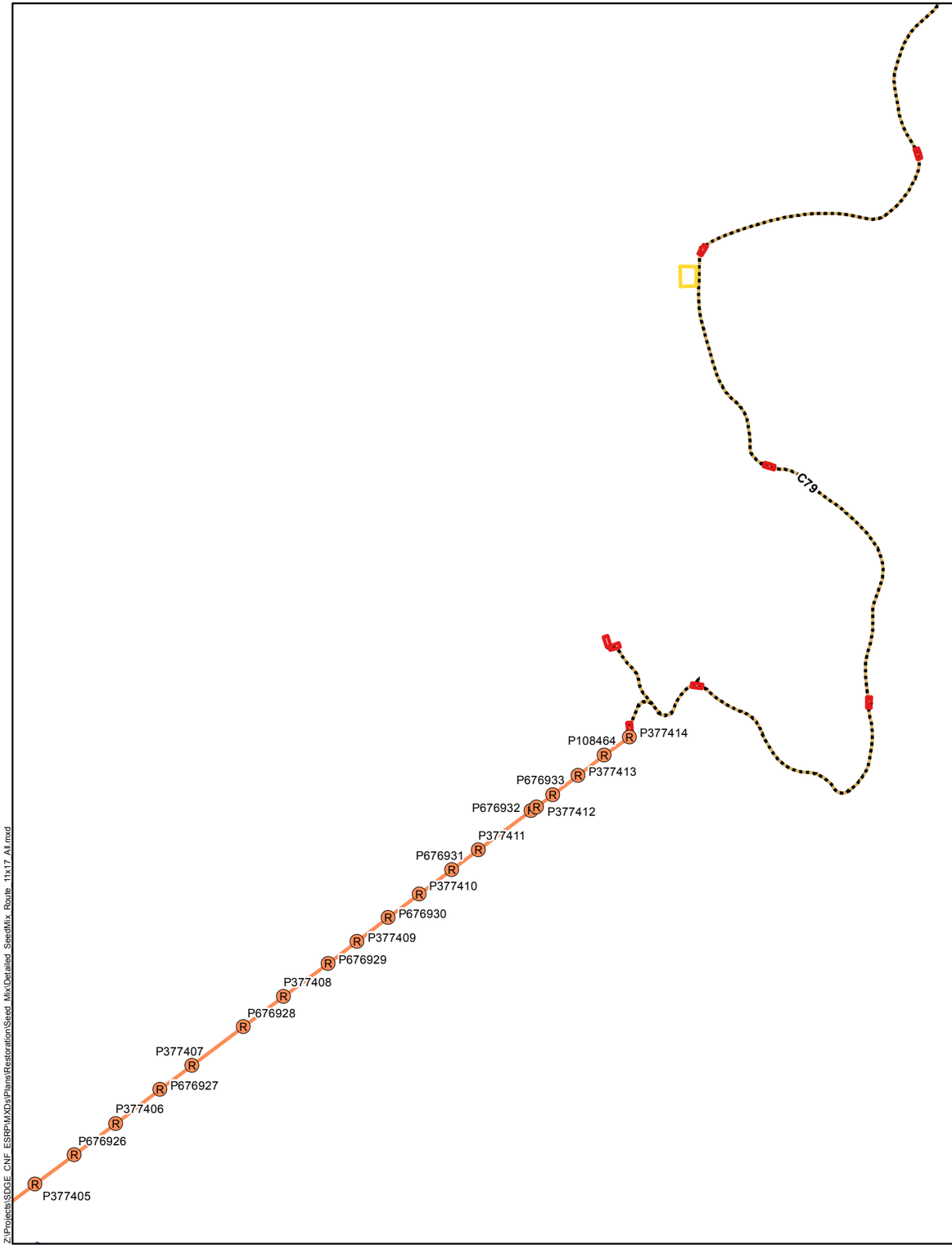
Attachment B-5:
C79
Prescribed Seed Mix
Map 4 of 7

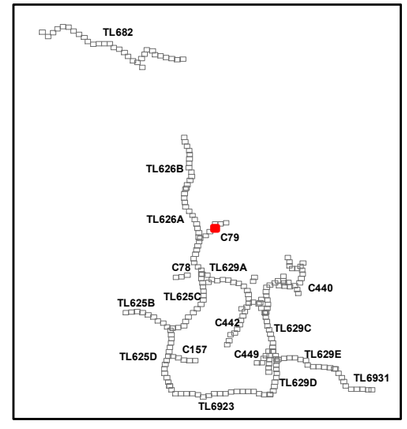
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Undergrounding
- Fly Yard and Staging Area
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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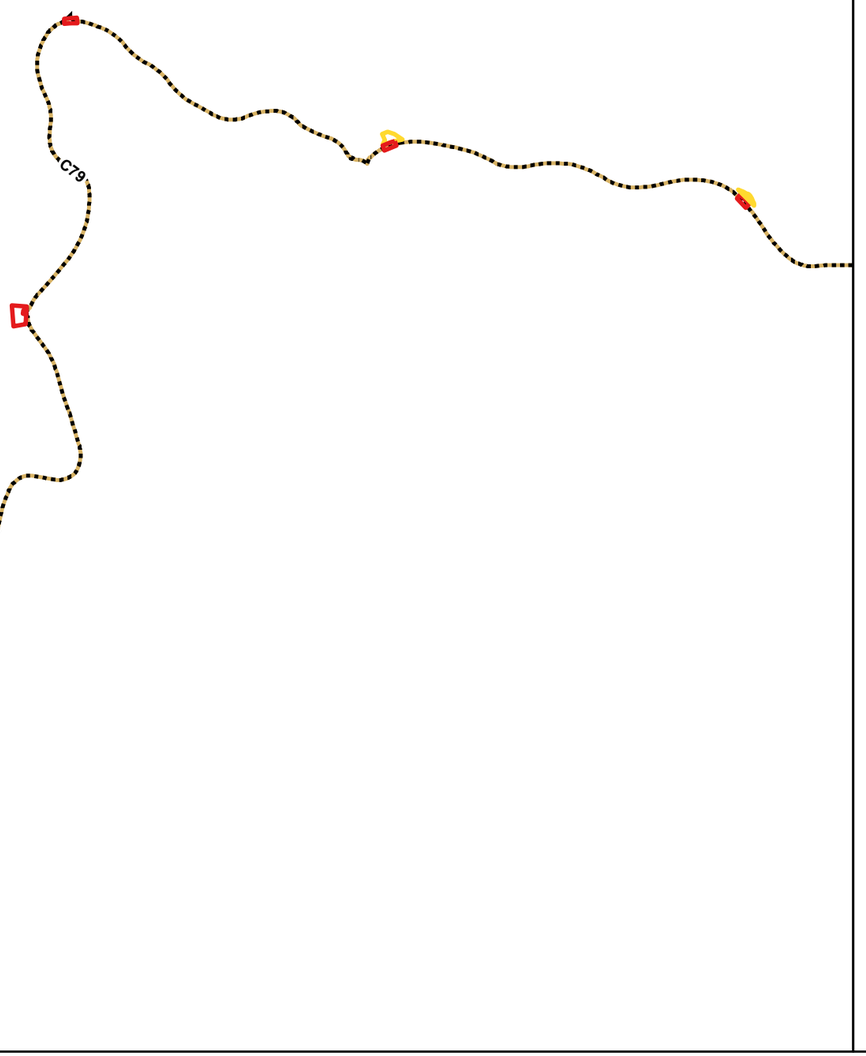
Attachment B-5:
C79
Prescribed Seed Mix
Map 5 of 7

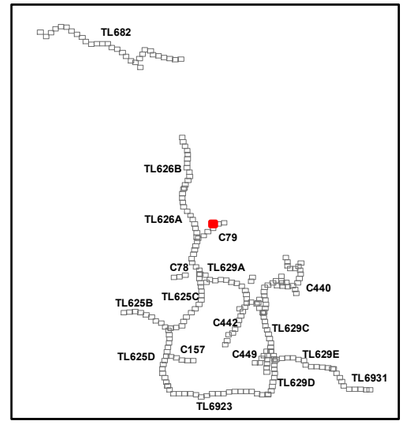
Cleveland National Forest
Power Line Replacement Projects

- Undergrounding
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Non-Native Grassland, and Erosion Control





SDGE A Sempra Energy utility

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Attachment B-5:
C79
Prescribed Seed Mix
Map 6 of 7

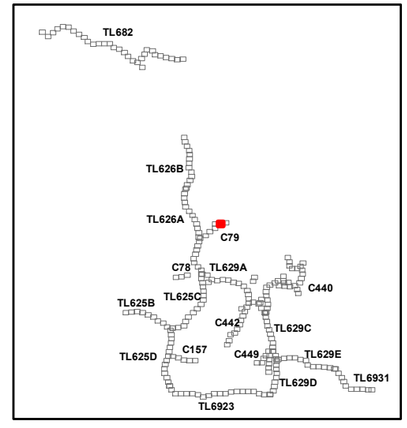
Cleveland National Forest
Power Line Replacement Projects

- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral

C79



SDGE A Sempra Energy utility

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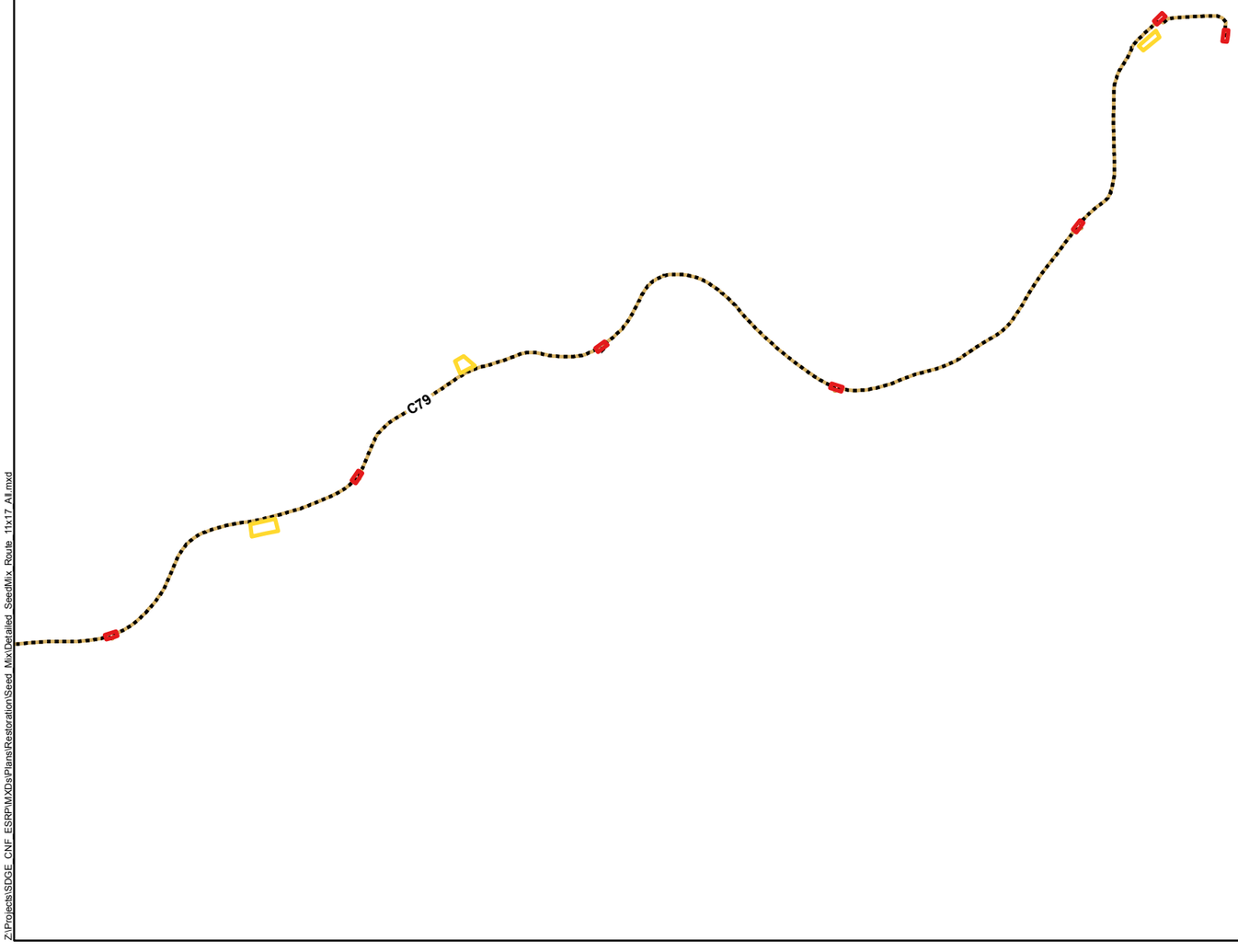
Attachment B-5:
C79
Prescribed Seed Mix
Map 7 of 7

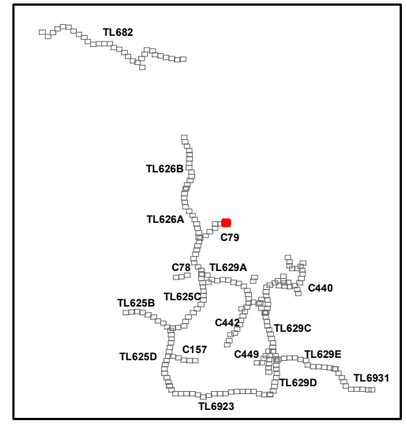
Cleveland National Forest
Power Line Replacement Projects



- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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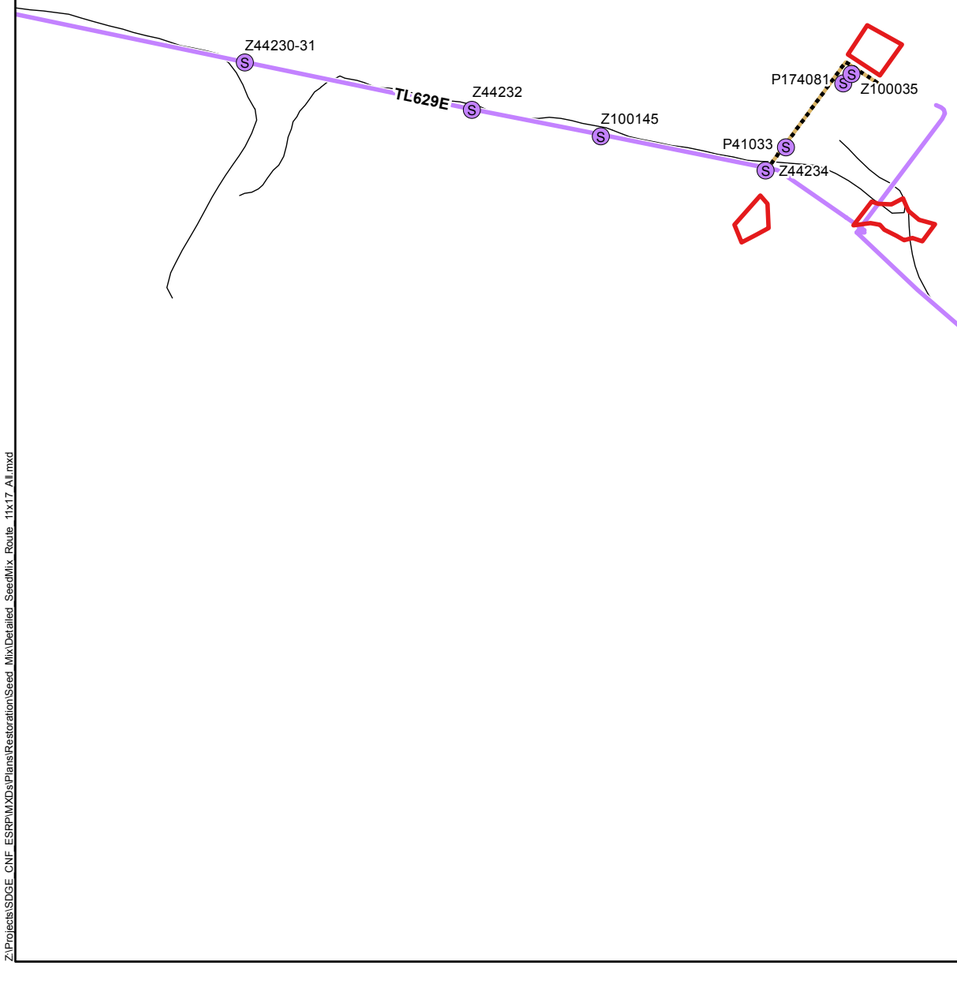
ATTACHMENT B-6: TL6931 PRESCRIBED SEED MIX APPLICATION MAPPING



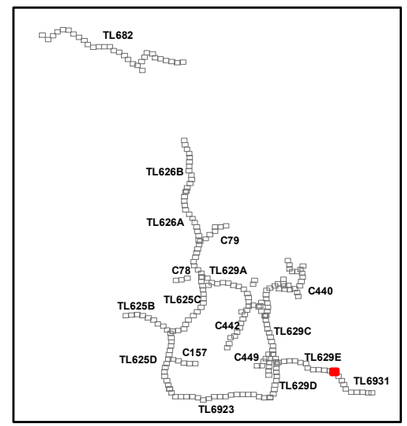
Attachment B-6:
TL6931
Prescribed Seed Mix
Map 1 of 10

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Semi-Desert Chaparral



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Attachment B-6:
TL6931
Prescribed Seed Mix
Map 2 of 10

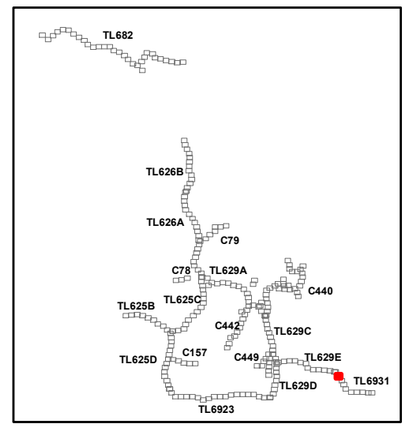
Cleveland National Forest
Power Line Replacement Projects

TL6931

- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Coastal Sage / Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Semi-Desert Chaparral



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TL6931

Attachment B-6:
TL6931
Prescribed Seed Mix
Map 3 of 10

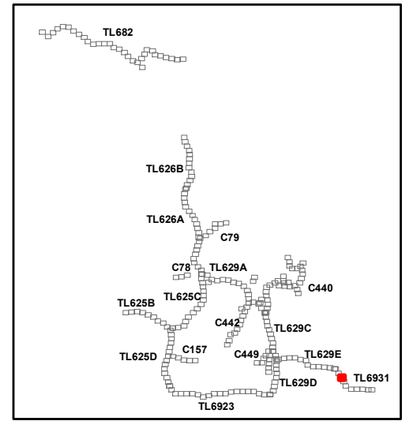
Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

Access Road

Seed Mix Types

Semi-Desert Chaparral



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TL6931

Attachment B-6:
TL6931
Prescribed Seed Mix
Map 4 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

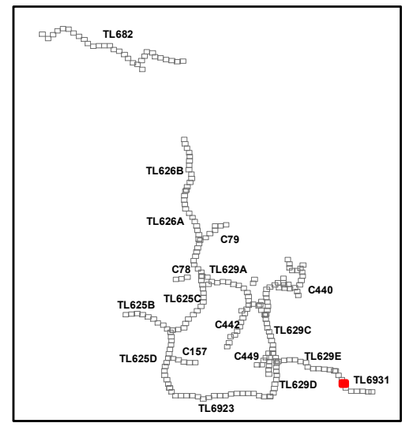
Access Road

Seed Mix Types

Coastal Sage / Chaparral

Semi-Desert Chaparral

Southern Mixed Chaparral and Scrub Oak Chaparral



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TL6931

Attachment B-6:
TL6931
Prescribed Seed Mix
Map 5 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

Access Road

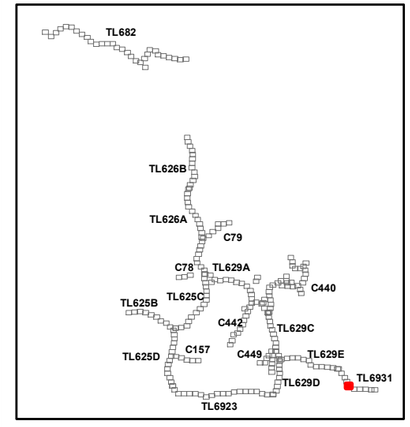
Seed Mix Types

Coastal Sage / Chaparral

Oak Savanna, Non-Native Grassland, and Erosion Control

Semi-Desert Chaparral

Southern Mixed Chaparral and Scrub Oak Chaparral



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Attachment B-6:
TL6931
Prescribed Seed Mix
Map 6 of 10

Cleveland National Forest
Power Line Replacement Projects

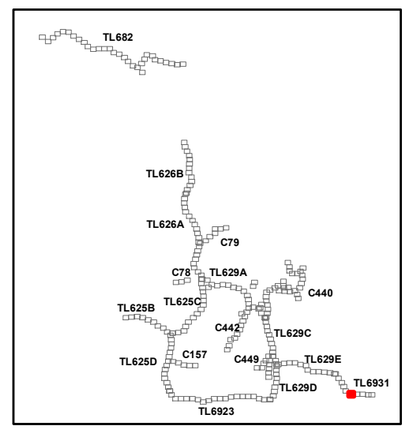
Wood-to-Steel Replacement

Access Road

Seed Mix Types

Semi-Desert Chaparral

TL6931



SDGE A Sempra Energy utility

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TL6931

Attachment B-6:
TL6931
Prescribed Seed Mix
Map 7 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

Access Road

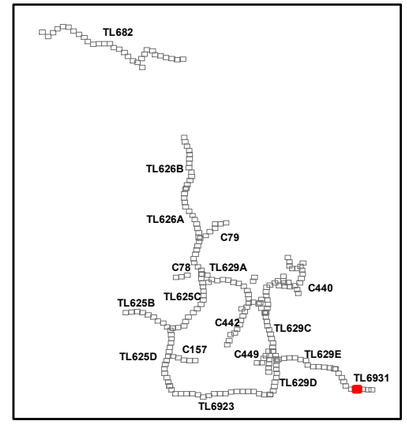
Seed Mix Types

Coastal Sage / Chaparral

Oak Savanna, Non-Native Grassland, and Erosion Control

Semi-Desert Chaparral

Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility

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Attachment B-6:
TL6931
Prescribed Seed Mix
Map 8 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

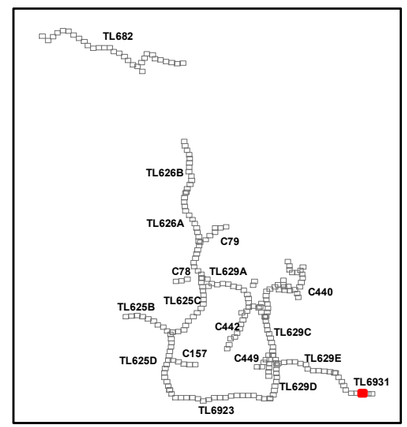
Access Road

Seed Mix Types

Semi-Desert Chaparral

Southern Mixed Chaparral and Scrub Oak Chaparral

TL6931



SDGE A Sempra Energy utility

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Attachment B-6:
TL6931
Prescribed Seed Mix
Map 9 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

Access Road

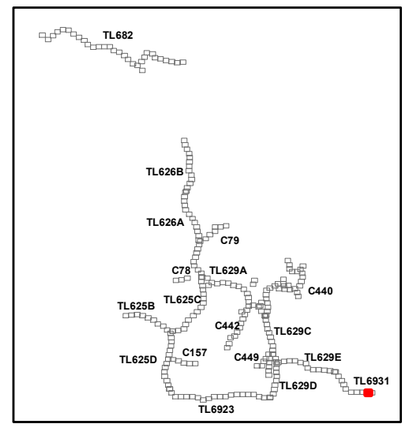
Seed Mix Types

Oak Savanna, Non-Native Grassland, and Erosion Control

Semi-Desert Chaparral

Southern Mixed Chaparral and Scrub Oak Chaparral

TL6931



SDGE A Sempra Energy utility

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Attachment B-6:
TL6931
Prescribed Seed Mix
Map 10 of 10

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement

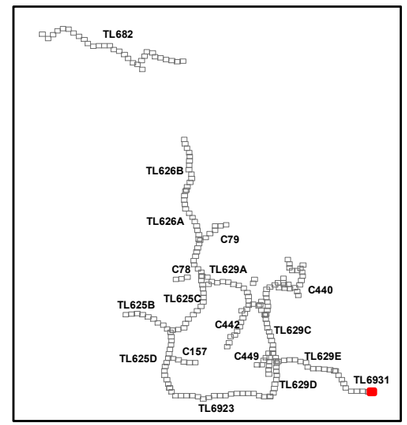
Access Road

Seed Mix Types

Oak Savanna, Non-Native Grassland, and Erosion Control

Semi-Desert Chaparral

TL6931



SDGE A Sempra Energy utility

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ATTACHMENT B-7: C157 PRESCRIBED SEED MIX APPLICATION MAPPING

Attachment B-7:
C157
Prescribed Seed Mix
Map 1 of 5

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Native Grassland, Non-Native Grassland, Coast Live Oak Riparian, Southern Riparian Forest, and Erosion Control
- Southern Mixed Chaparral, Semi-Desert Chaparral, and Scrub Oak Chaparral

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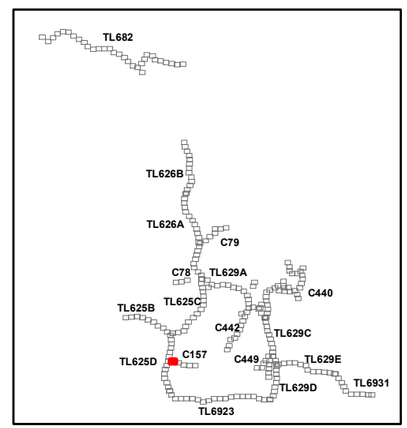

SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/17/2016

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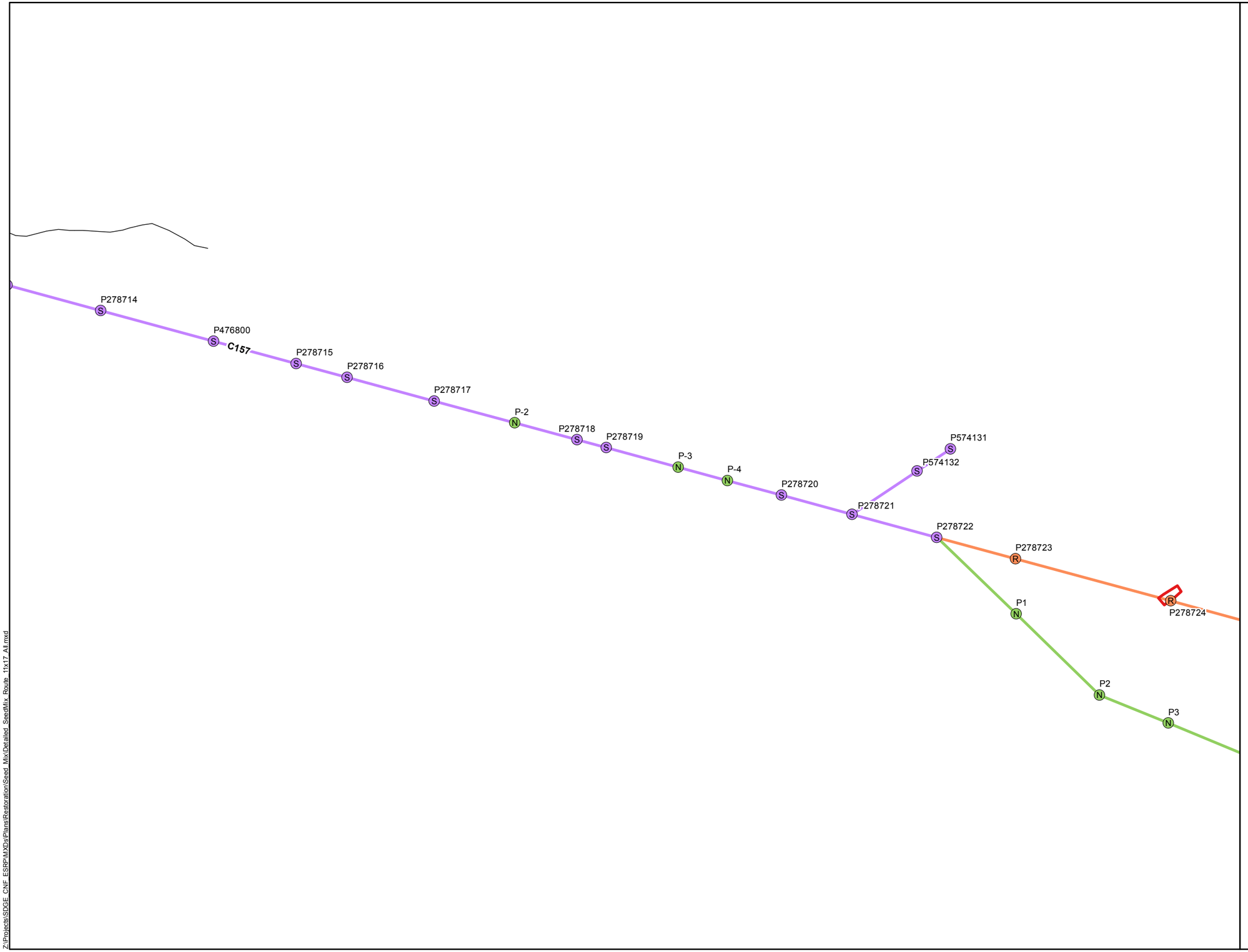
Attachment B-7:
C157
Prescribed Seed Mix
Map 2 of 5

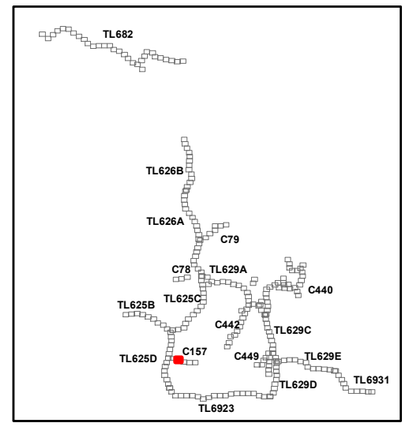
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Native Grassland, Non-Native Grassland, Coast Live Oak Riparian, Southern Riparian Forest, and Erosion Control
- Southern Mixed Chaparral, Semi-Desert Chaparral, and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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6/17/2016

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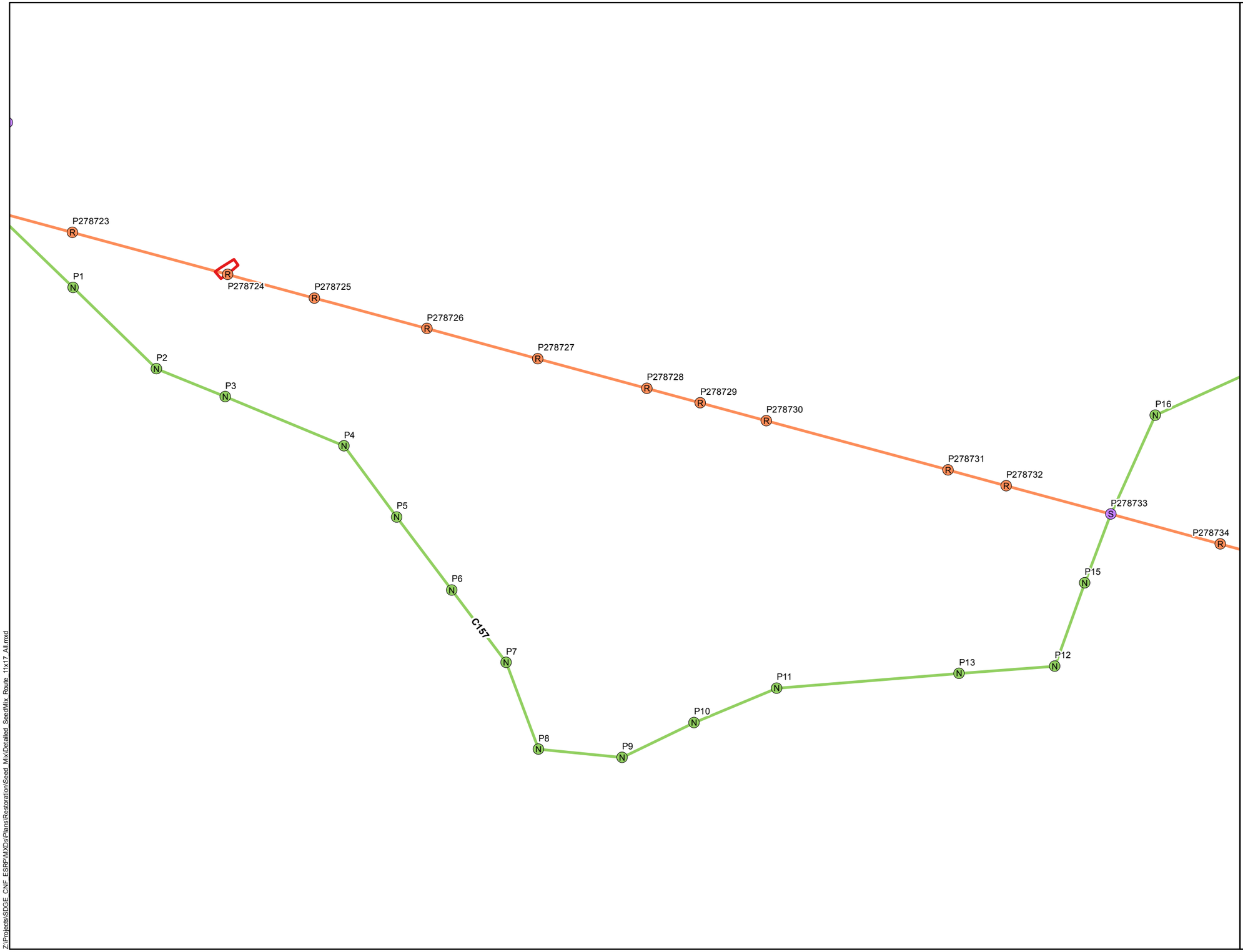
Attachment B-7:
C157
Prescribed Seed Mix
Map 3 of 5

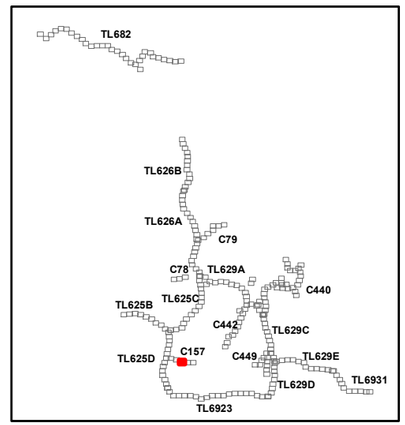
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Native Grassland, Non-Native Grassland, Coast Live Oak Riparian, Southern Riparian Forest, and Erosion Control
- Southern Mixed Chaparral, Semi-Desert Chaparral, and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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Attachment B-7:
C157
Prescribed Seed Mix
Map 4 of 5

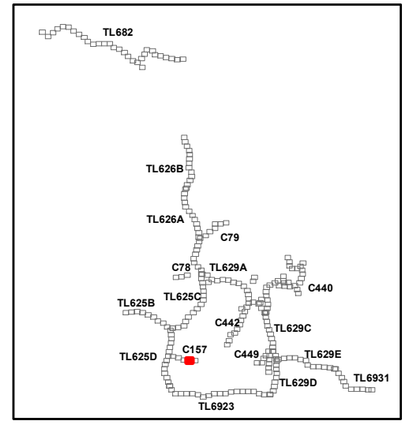
Cleveland National Forest
Power Line Replacement Projects

P22
C157
P21
P20
P23
P24
P18
P17
P19
P16
P25
P26
P27
P278732
P278733
P278734
P15
P278735
P278736
P278737
P28
P12
P278738
P29
P278739
P278740
P278741
P278742
P278743

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Coastal Sage / Chaparral
- Oak Savanna, Native Grassland, Non-Native Grassland, Coast Live Oak Riparian, Southern Riparian Forest, and Erosion Control
- Southern Mixed Chaparral, Semi-Desert Chaparral, and Scrub Oak Chaparral



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6/17/2016

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Attachment B-7:
C157
Prescribed Seed Mix
Map 5 of 5

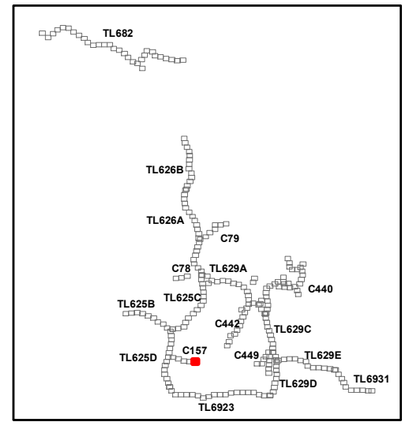
Cleveland National Forest
Power Line Replacement Projects

P28
P29
P278741
P278742
P278743
P278744
P-6
P278745
P476799
P278746
P278747
P278748
C157
P278749
P278750
P278751
P278752

- New Steel Pole
- Wood-to-Steel Replacement Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Seed Mix Types

- Coastal Sage / Chaparral
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland
- Oak Savanna, Native Grassland, Non-Native Grassland, Coast Live Oak Riparian, Southern Riparian Forest, and Erosion Control
- Southern Mixed Chaparral, Semi-Desert Chaparral, and Scrub Oak Chaparral



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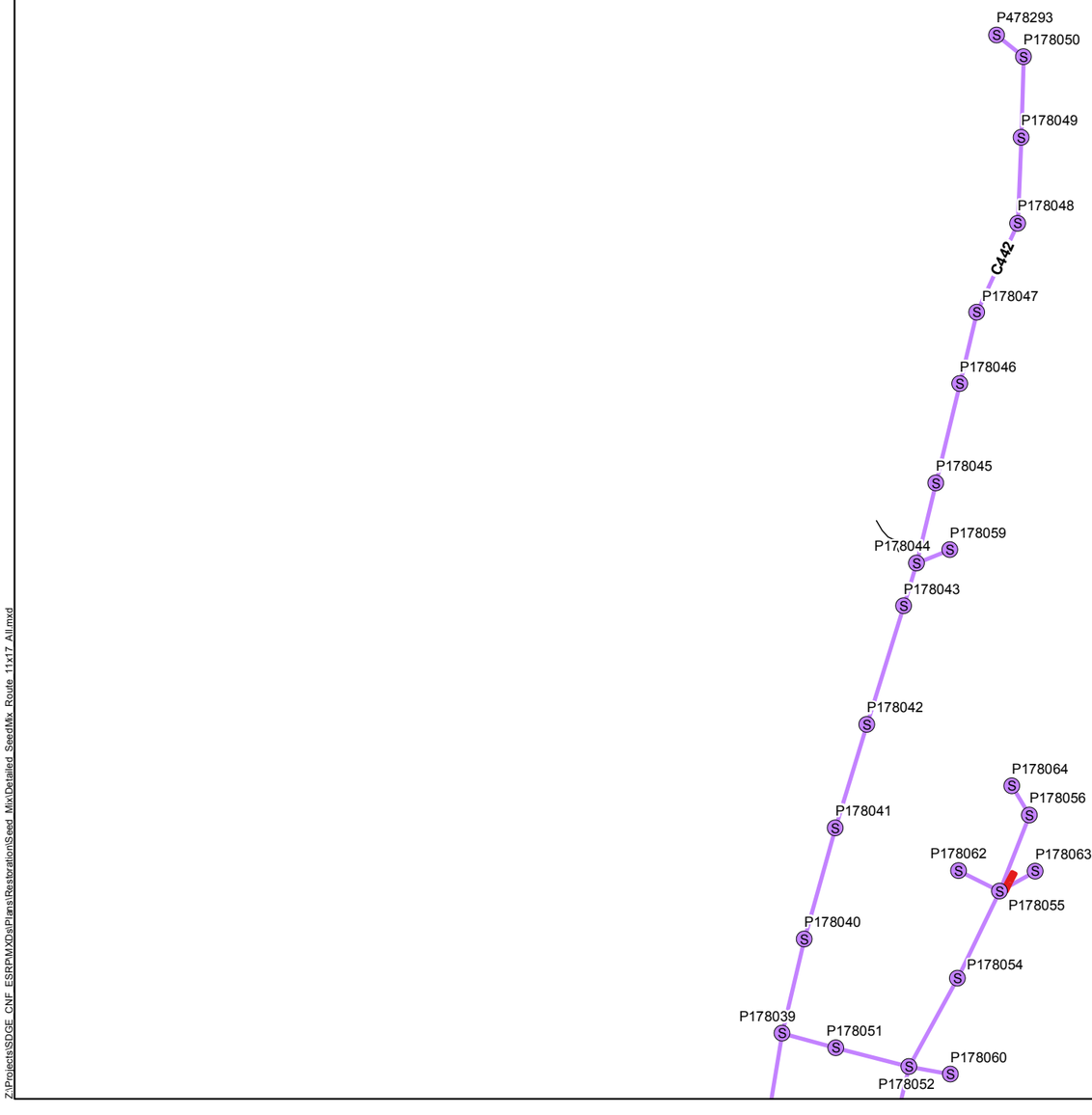
6/17/2016

ATTACHMENT B-8: C442 PRESCRIBED SEED MIX APPLICATION MAPPING

Attachment B-8:
C442
Prescribed Seed Mix
Map 1 of 14

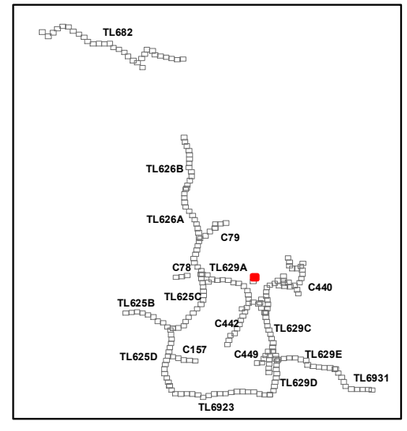
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland



SDGE A Sempra Energy utility

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8/8/2016

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P178064
P178056
P178041
P178062
P178063
C442
P178055
P178040
P178054
P178039
P178051
P178052
P178060
P176907
P178038
P178058
P178053
P178061
P178037
P178033
P178034
P178057
P178035
P178032
P178036
P178031
P178029
P180570S
P178030
P178028
P178027
P178026
P178025
P178024

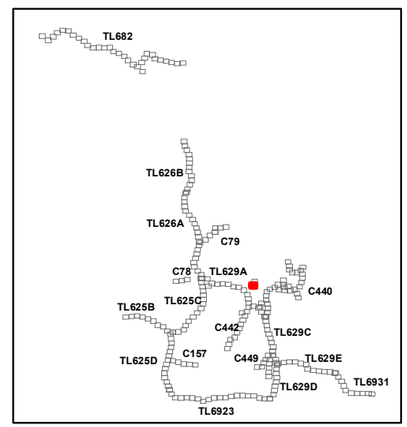
Attachment B-8:
C442
Prescribed Seed Mix
Map 2 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland



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Z774861
Z774860
Z276631
P176943
P176944
P176945
P176946
P177154
C442
P176947
P176948
P-1

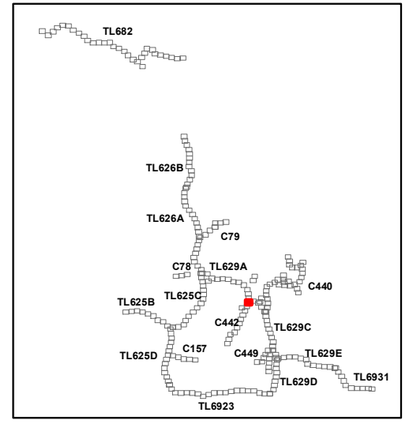
Attachment B-8:
C442
Prescribed Seed Mix
Map 3 of 14

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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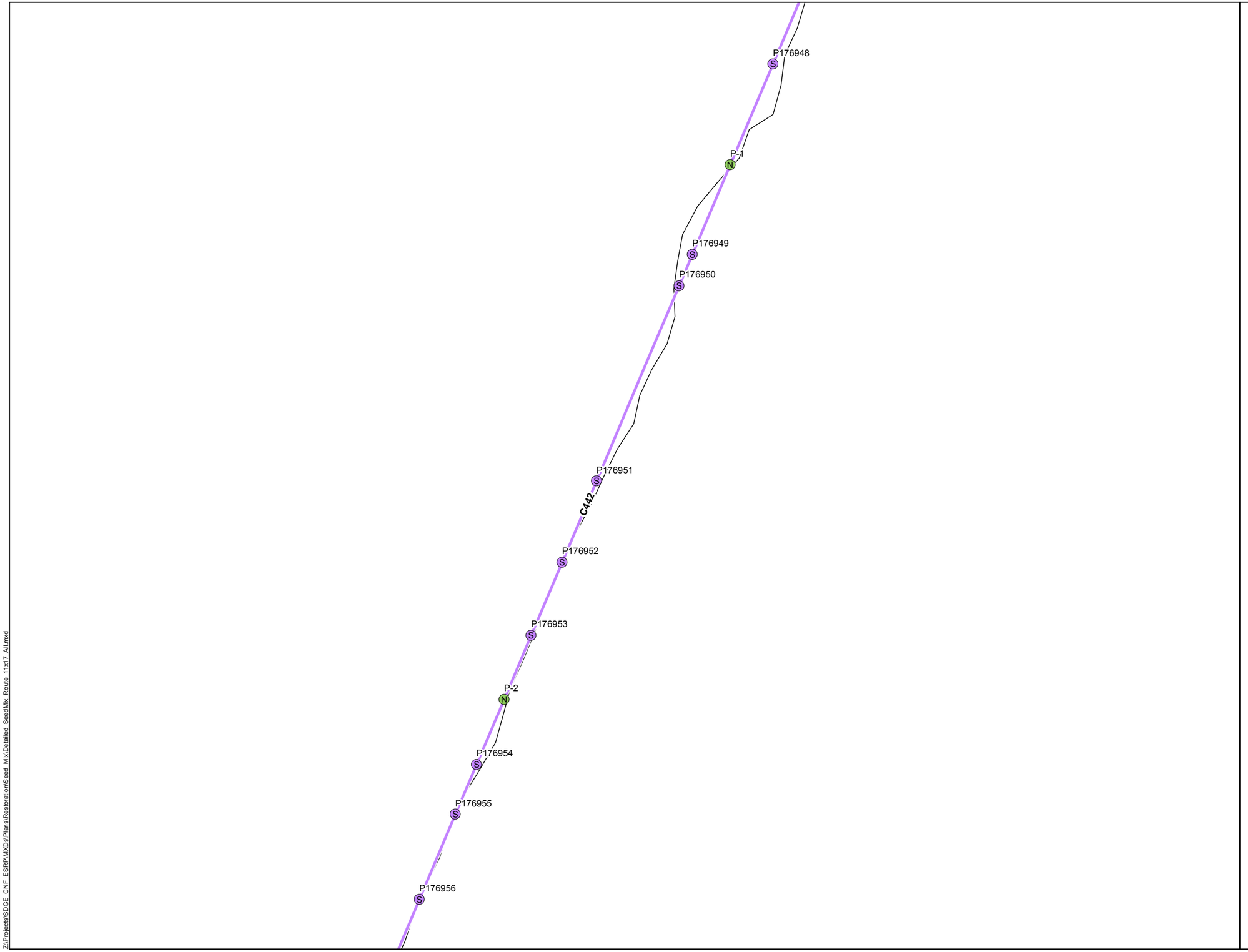
8/8/2016



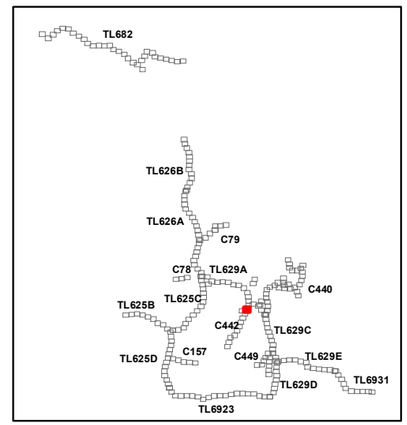
Attachment B-8:
C442
Prescribed Seed Mix
Map 4 of 14

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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Attachment B-8:
C442
Prescribed Seed Mix
Map 5 of 14

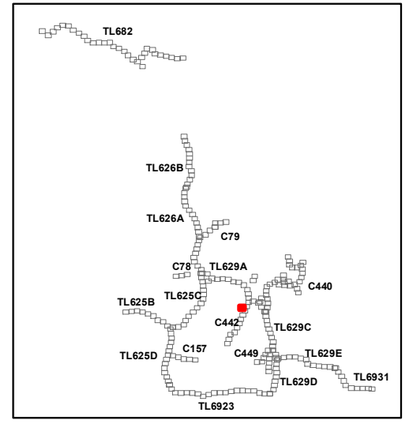
Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland
- Meadow / Seep
- Southern Mixed Chaparral and Scrub Oak Chaparral

P176957
P-33 (#21)
C442
P176958



SDGE a Sempra Energy utility
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P176954
P176955
P176956
P176957
P-33 (#21)
P176958
C442
P-34 (#23)
P176959
P-35 (#25)
P176960
P176961
P176962
P176963

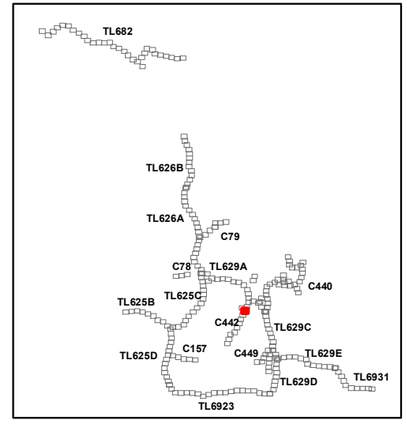
Attachment B-8:
C442
Prescribed Seed Mix
Map 6 of 14

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



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P176962
P176963
P176964
P176965
P176966
P176967
C442
P176968
P176969
P176970
P176971
P176972
P176973

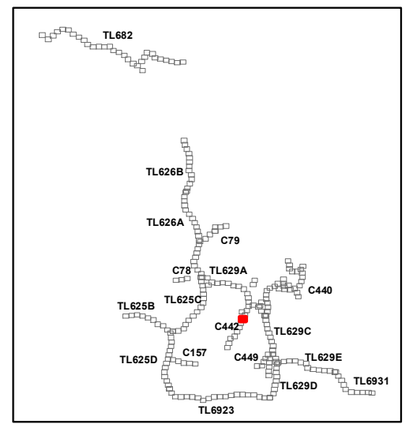
Attachment B-8:
C442
Prescribed Seed Mix
Map 7 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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P176973
P176974
P176975
P176976
P176977
P176978
P176979
C442
P176980
P177155
P176981

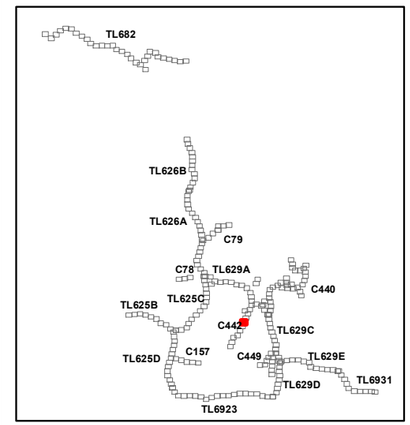
Attachment B-8:
C442
Prescribed Seed Mix
Map 8 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



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P-27 (#49)
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P176983
P176984
P176985
C442
P176986
P176987
P176988
P176989
P176990
P176991

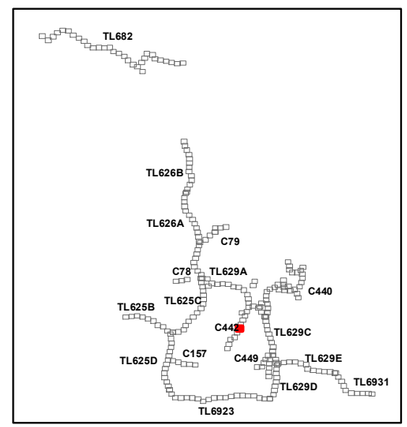
Attachment B-8:
C442
Prescribed Seed Mix
Map 9 of 14

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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P176990
P176991
P176992
P176993
P176994
P-28 (#63)
C442
P176995
P176996
P176997
P-29
(#65/#67)
P176998
P176999
P177000

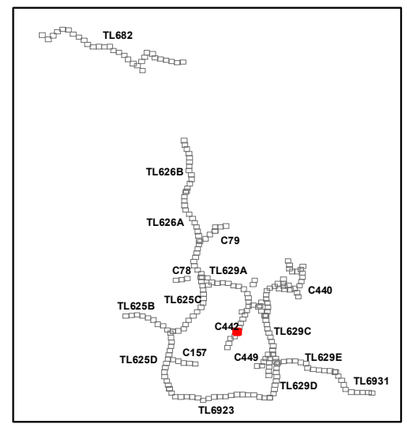
Attachment B-8:
C442
Prescribed Seed Mix
Map 10 of 14

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



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P176999
P177000
P177001
P-31 (#72)
P177002
P177003
P177004
C442
P177005
P177006
P177007
P177008
P177009
P177010
P177011
P177012
P177013

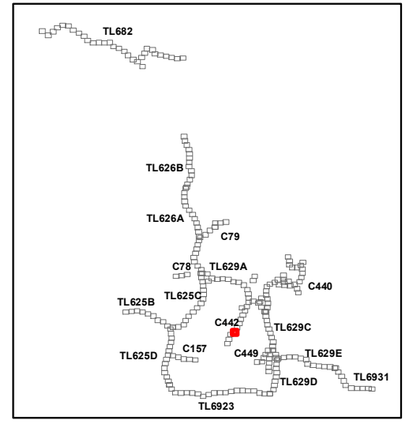
Attachment B-8:
C442
Prescribed Seed Mix
Map 11 of 14

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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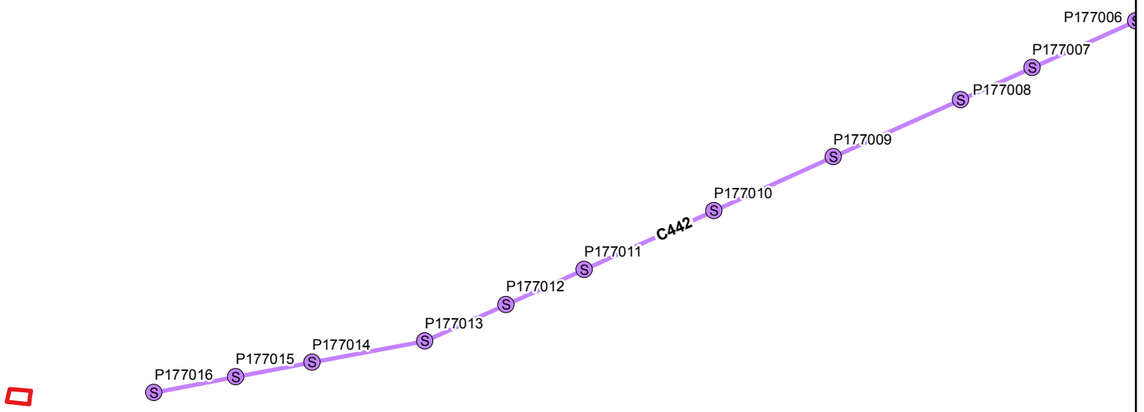
Attachment B-8:
C442
Prescribed Seed Mix
Map 12 of 14

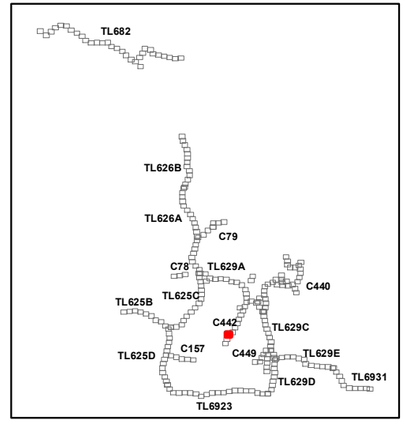
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland
- Non-Native Grassland and Erosion Control
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility

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Attachment B-8:
C442
Prescribed Seed Mix
Map 13 of 14

Cleveland National Forest
Power Line Replacement Projects

Fly Yard

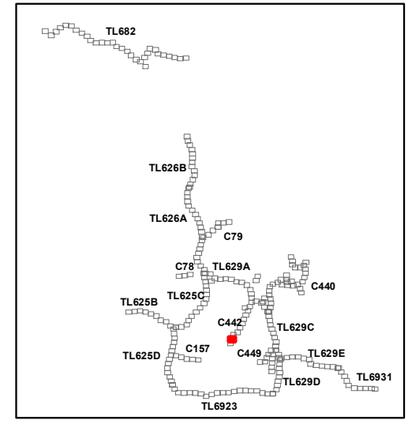
Access Road

Seed Mix Types

Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland

Oak Savanna, Non-Native Grassland, and Erosion Control

Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility

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Attachment B-8:
C442
Prescribed Seed Mix
Map 14 of 14

Cleveland National Forest
Power Line Replacement Projects

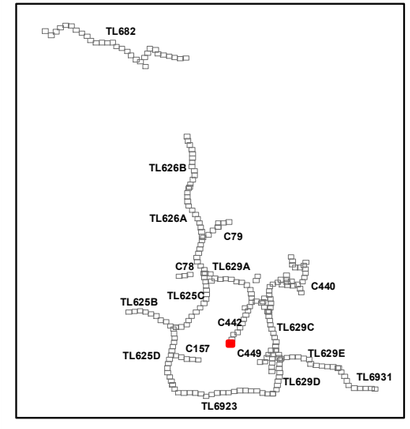
Fly Yard

Access Road

Seed Mix Types

Oak Savanna, Non-Native Grassland, and Erosion Control

Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility

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ATTACHMENT B-9: C440 PRESCRIBED SEED MIX APPLICATION MAPPING

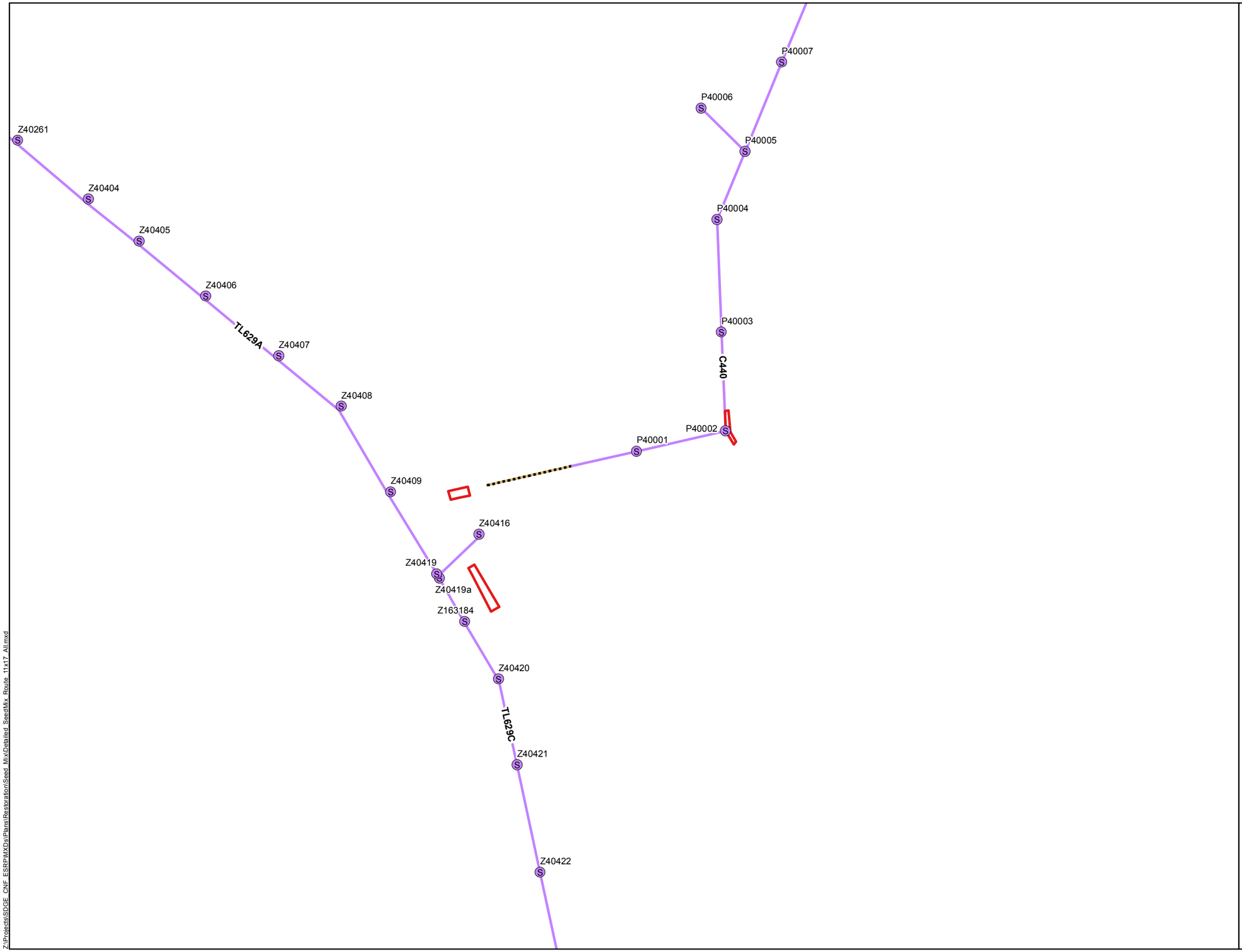
Attachment B-9:
C440
Prescribed Seed Mix
Map 1 of 33

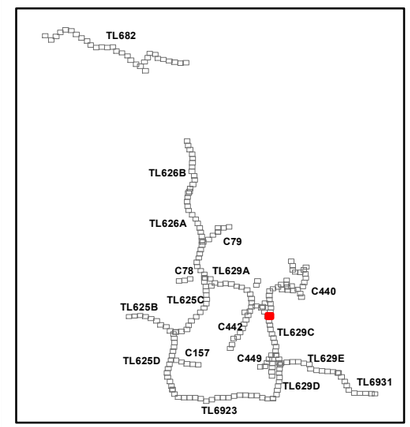
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage / Chaparral
- Big Sage Scrub
- Chamise Chaparral
- Montane Mixed Chaparral and Scrub Oak Chaparral





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C440

P40011

P40010

P223415

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P194594

P40007

P40006

P40005

P40004

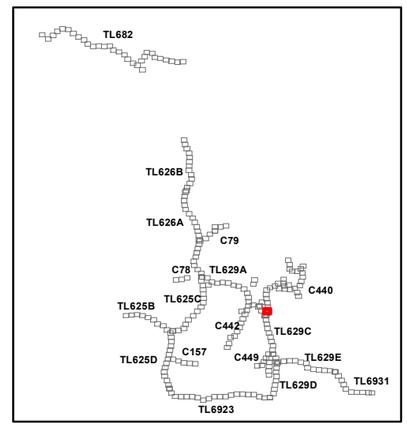
Attachment B-9:
C440
Prescribed Seed Mix
Map 2 of 33

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Removal
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Big Sage Scrub
- Chamise Chaparral
- Montane Mixed Chaparral and Scrub Oak Chaparral



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C440

P40015

P40014

P40013

P40012

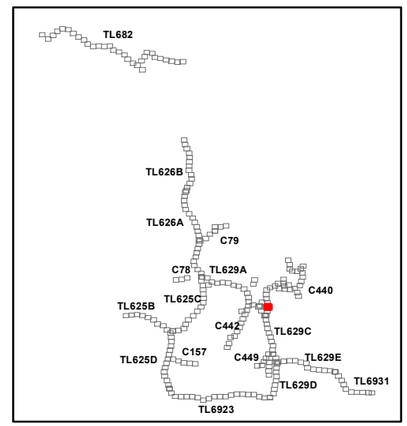
Attachment B-9:
C440
Prescribed Seed Mix
Map 3 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Chamise Chaparral
- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral



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C440

P40021

P40019

P40018

P40017

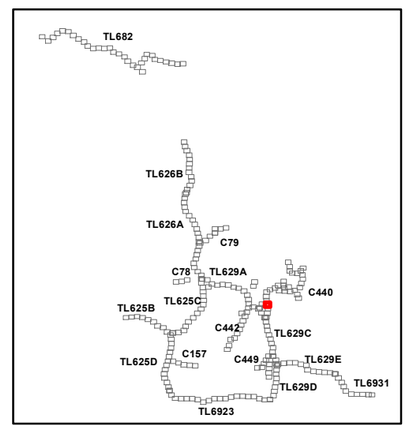
Attachment B-9:
C440
Prescribed Seed Mix
Map 4 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral



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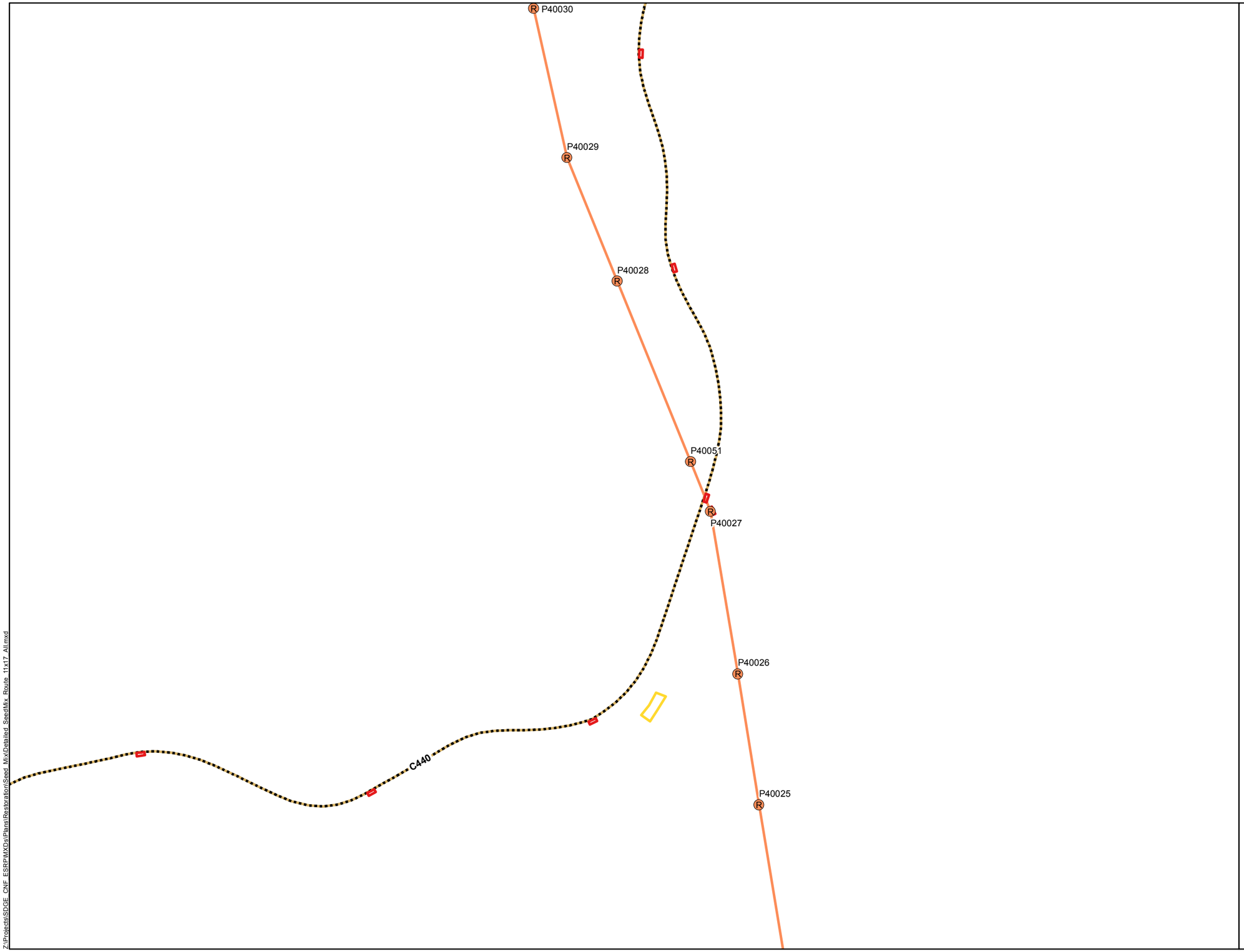


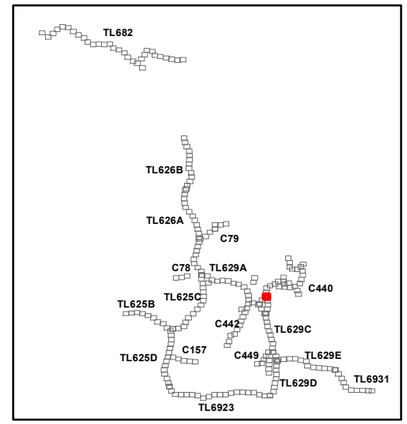
Attachment B-9:
C440
Prescribed Seed Mix
Map 5 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Montane Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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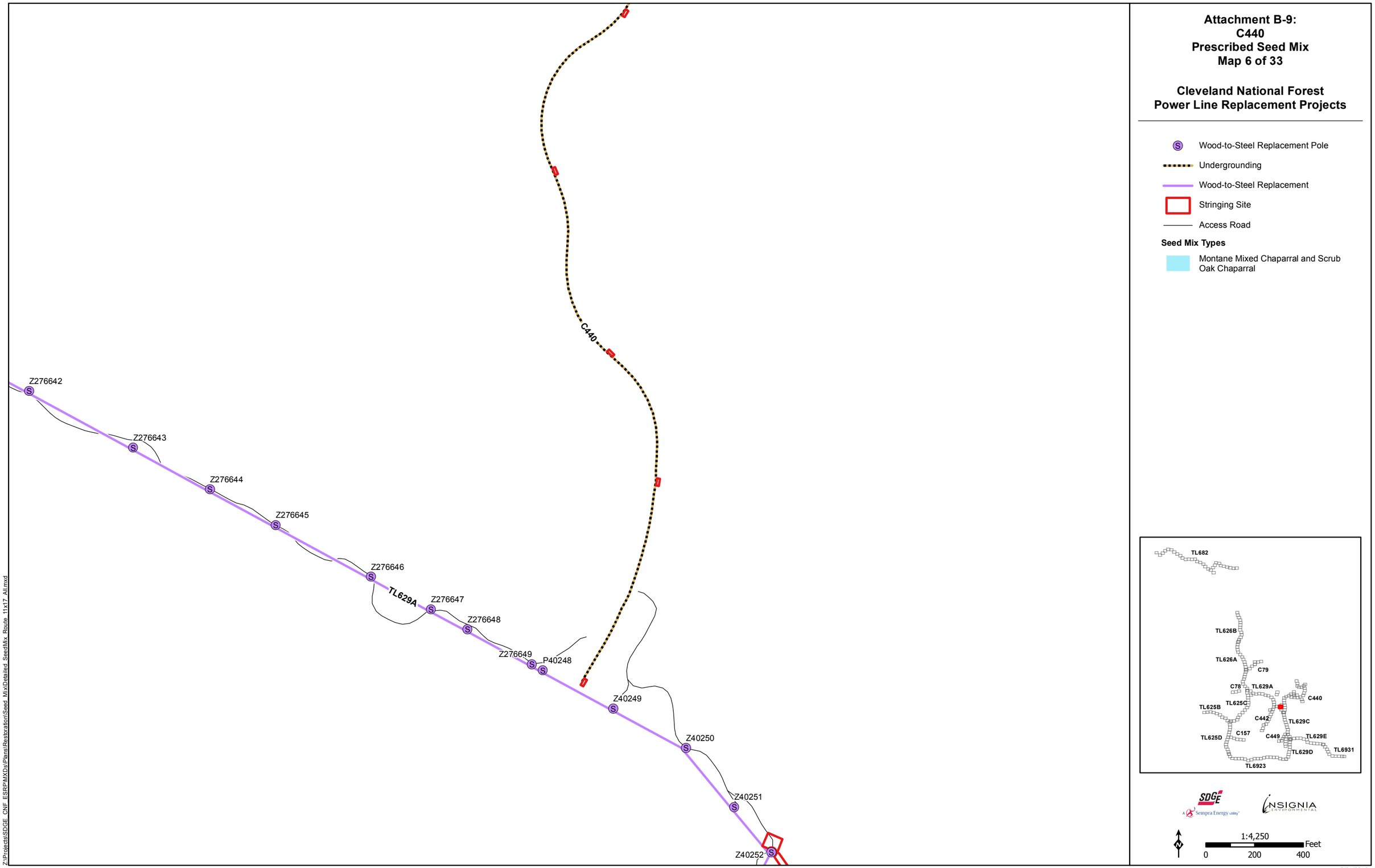
Attachment B-9:
C440
Prescribed Seed Mix
Map 6 of 33

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Montane Mixed Chaparral and Scrub Oak Chaparral



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Attachment B-9:
C440
Prescribed Seed Mix
Map 7 of 33

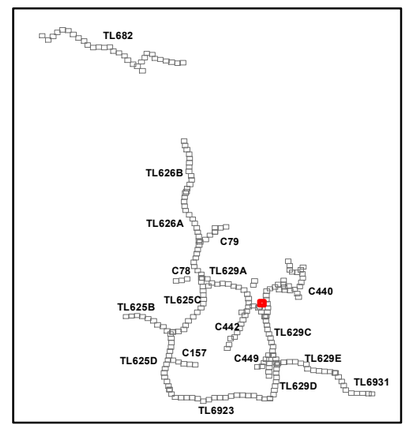
Cleveland National Forest
Power Line Replacement Projects

- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Mixed Chaparral and Scrub Oak Chaparral

C440



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P40034

P40033

C440

P40032

P40031

P40030

P40029

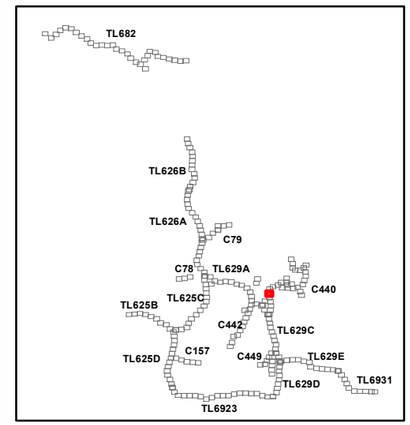
Attachment B-9:
C440
Prescribed Seed Mix
Map 8 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Montane Mixed Chaparral and Scrub Oak Chaparral



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P40047
P40044
P40043
P40042
P40041
P40040
P40039
C440
P40038
P40037
P40036
P40035

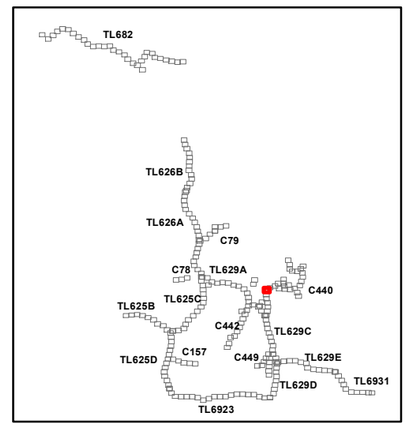
Attachment B-9:
C440
Prescribed Seed Mix
Map 9 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Montane Mixed Chaparral and Scrub Oak Chaparral



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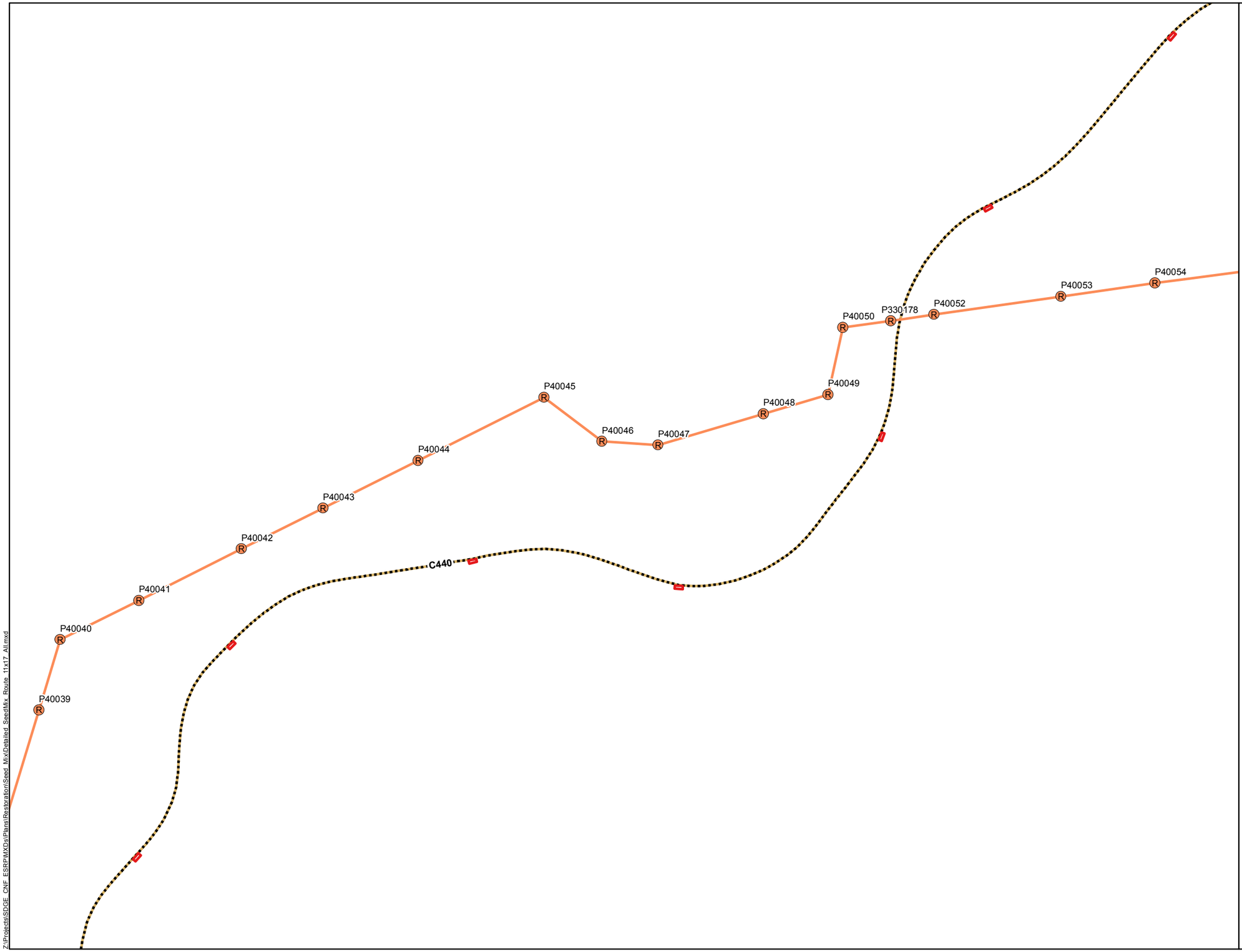
Attachment B-9:
C440
Prescribed Seed Mix
Map 10 of 33

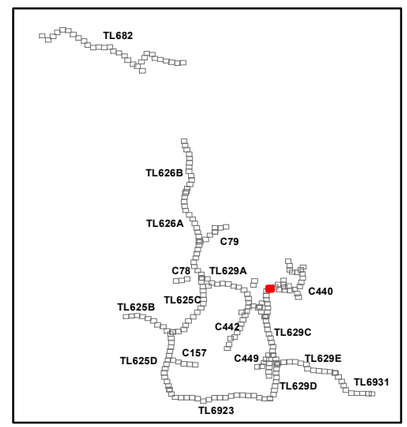
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral



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Attachment B-9:
C440
Prescribed Seed Mix
Map 11 of 33

Cleveland National Forest
Power Line Replacement Projects

C440

NEW POLE P-304

NEW POLE P-60

NEW POLE P-303

NEW POLE P-305

NEW POLE P-306

P330178

P40052

P40053

P40054

P40055

P40056

P40057

P40058

P40059

P40060

P40061

P40062

P40063

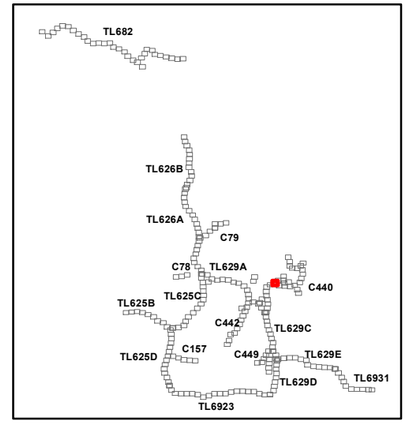
P40064

P40065

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral
- Montane Wet Meadow



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P40061
P40062
P40063
P40064
P40065
P40066
P40067
P40068
P40069
P40070
C440
P40071
P40072
P40073
P40074

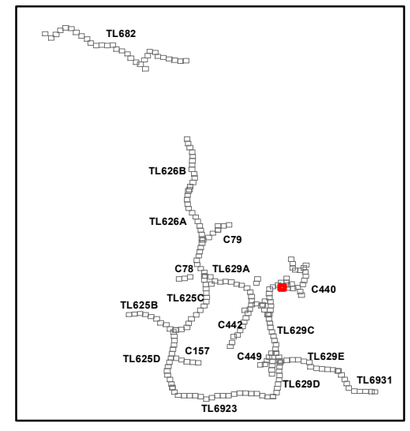
Attachment B-9:
C440
Prescribed Seed Mix
Map 12 of 33

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral
- Montane Wet Meadow



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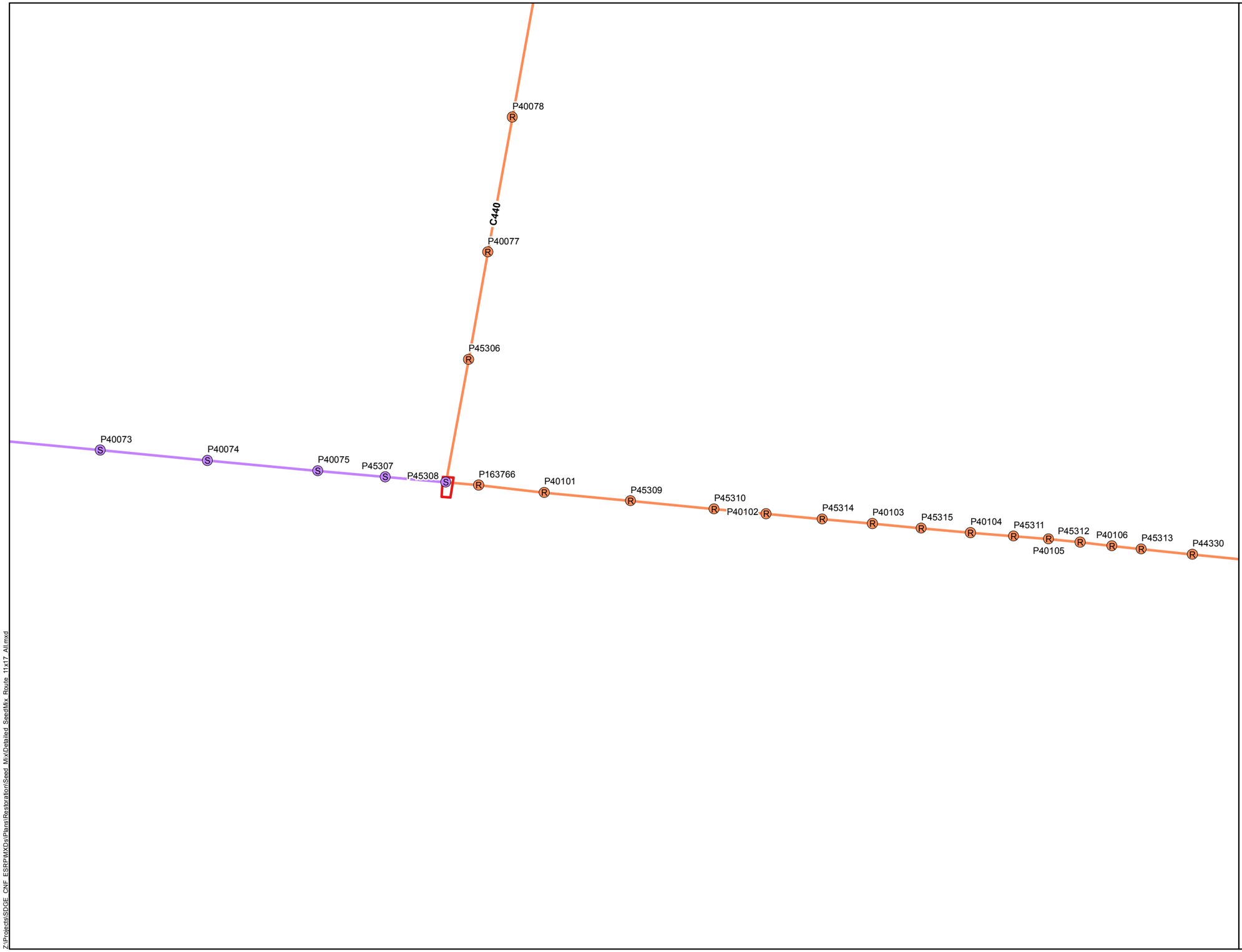
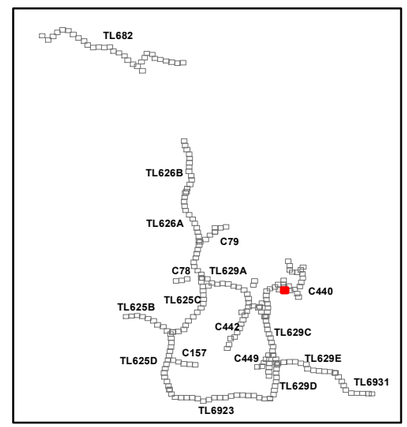
Attachment B-9:
C440
Prescribed Seed Mix
Map 13 of 33

Cleveland National Forest
Power Line Replacement Projects





Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral
- Montane Wet Meadow

Wood-to-Steel Replacement Pole
Removal Pole
Removal
Wood-to-Steel Replacement
Stringing Site
Access Road

SDGE a Sempra Energy utility
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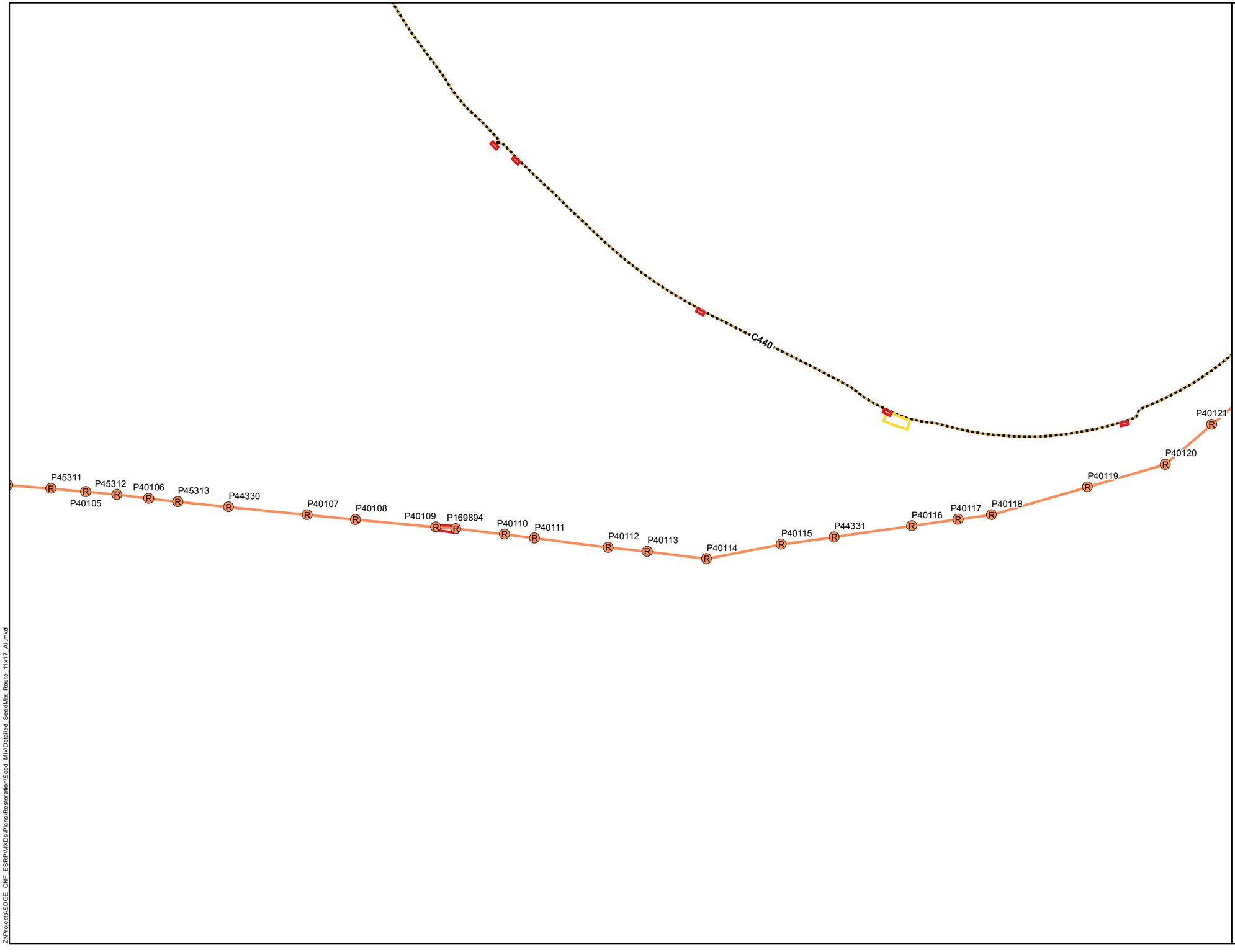
Attachment B-9:
C440
Prescribed Seed Mix
Map 14 of 33

Cleveland National Forest
Power Line Replacement Projects



Removal Pole

Removal

Undergrounding

Staging Area

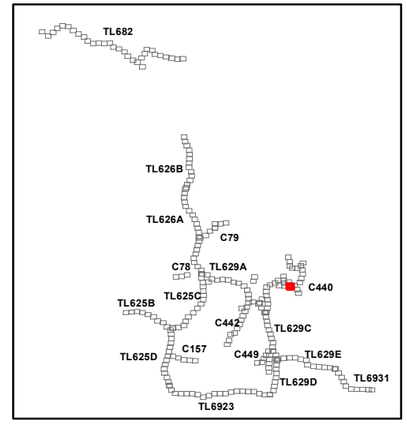
Stringing Site

Access Road

Seed Mix Types

Montane Forest, Native Grassland, and Erosion Control

Montane Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility

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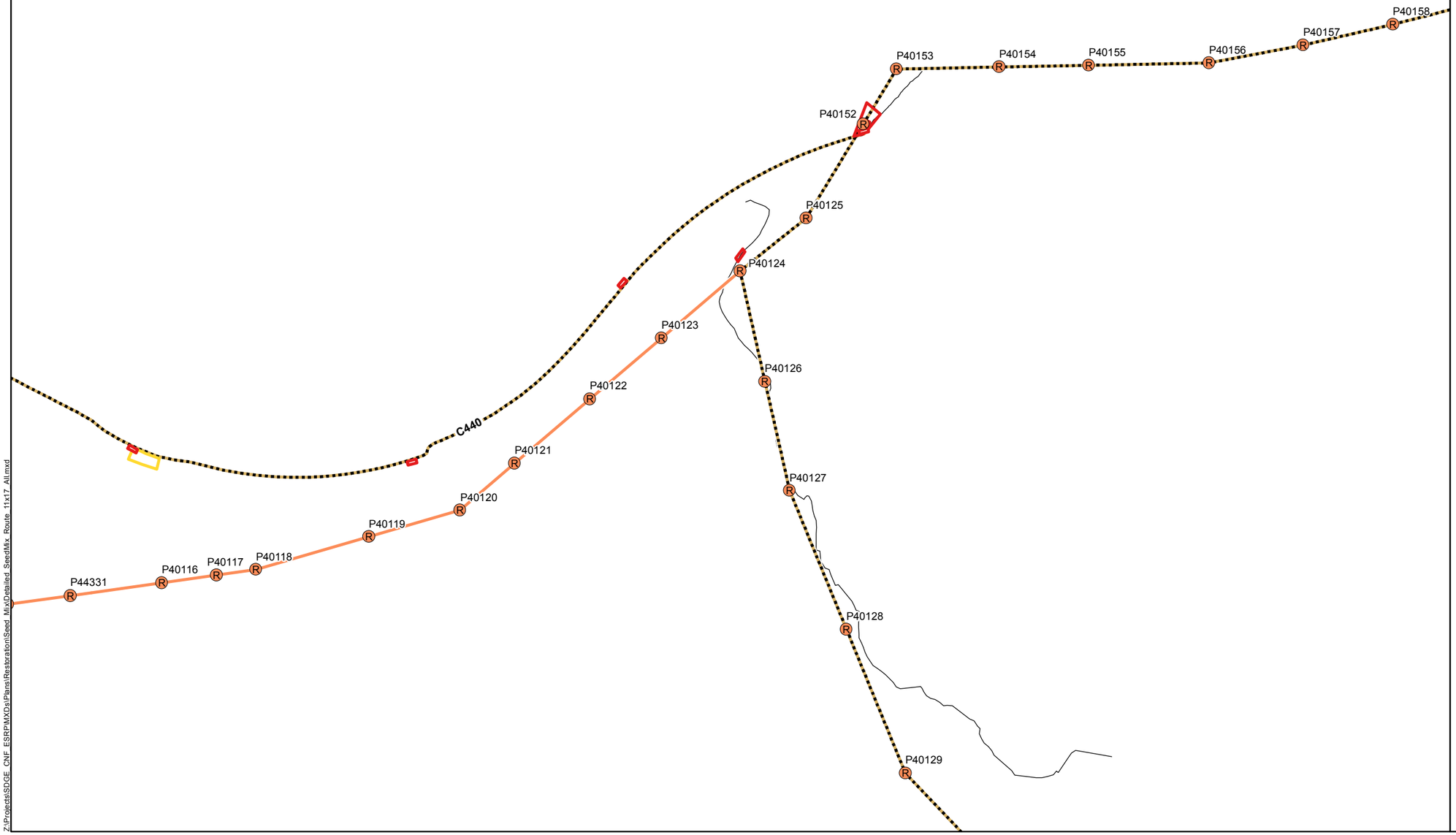
Attachment B-9:
C440
Prescribed Seed Mix
Map 15 of 33

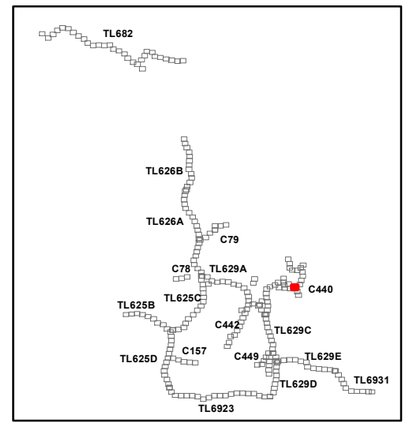
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral
- Montane Wet Meadow



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C440

NEW POLE
P-304

NEW POLE P-60

NEW POLE
P-303

NEW POLE
P-305

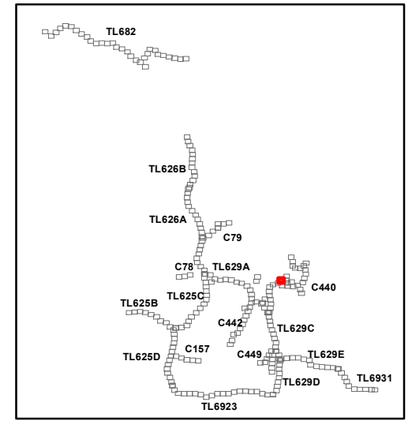
Attachment B-9:
C440
Prescribed Seed Mix
Map 16 of 33

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- New Steel
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral
- Montane Wet Meadow



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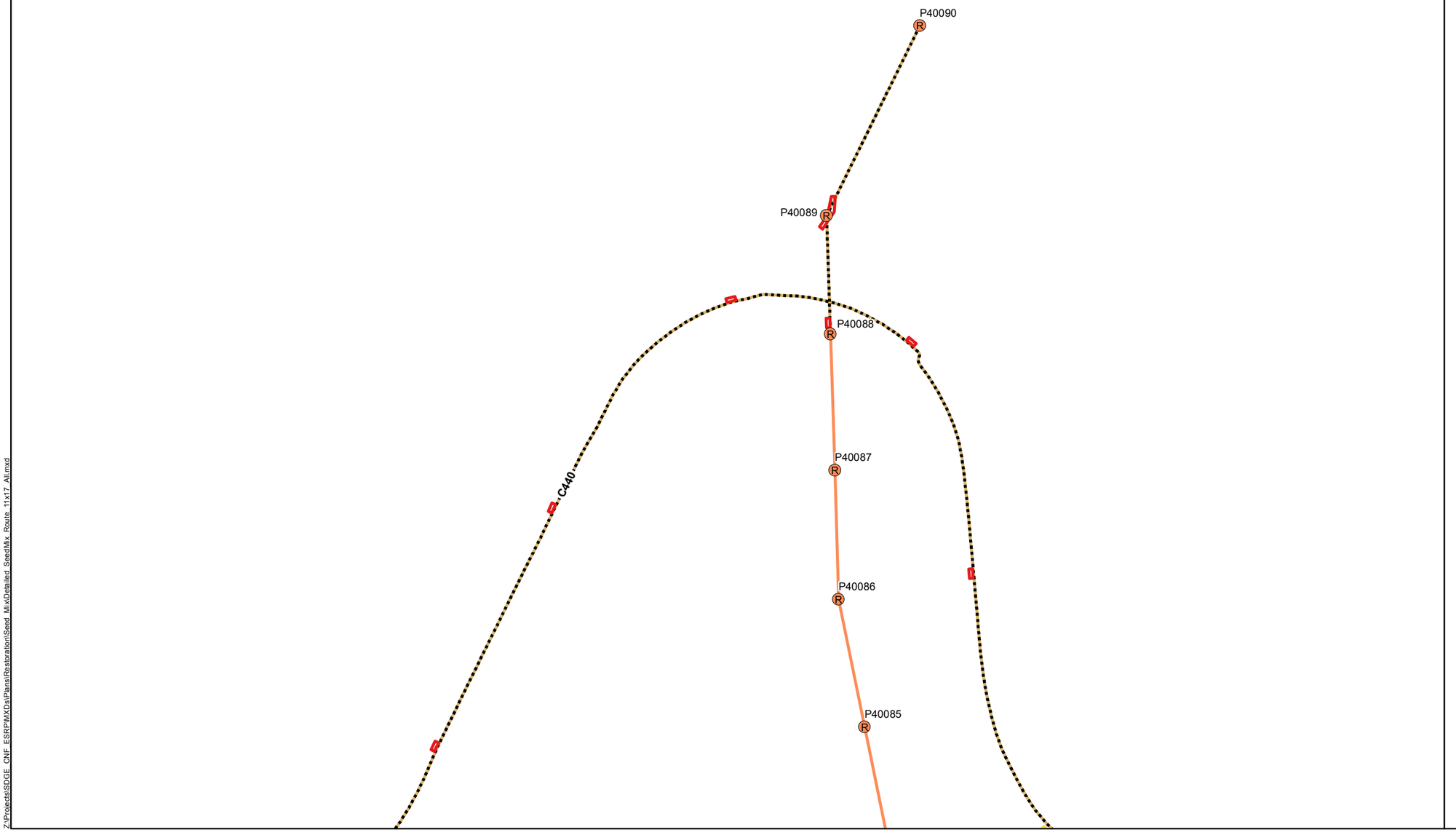
Attachment B-9:
C440
Prescribed Seed Mix
Map 17 of 33

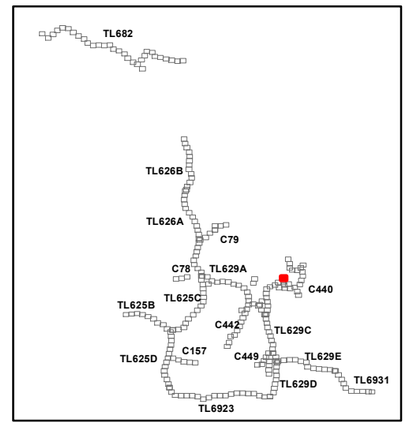
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral



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P40085

P40084

P40083

C440

P40082

P40081

P40080

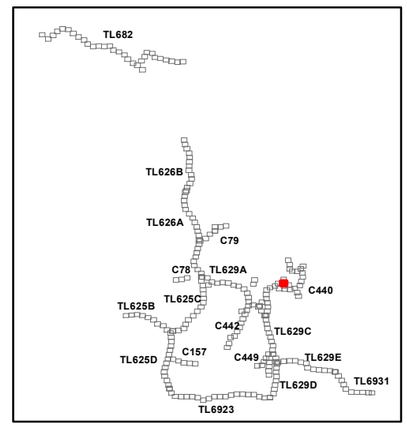
Attachment B-9:
C440
Prescribed Seed Mix
Map 18 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral
- Montane Wet Meadow



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P40080

P40079

P40078

C440

P40077

P45306

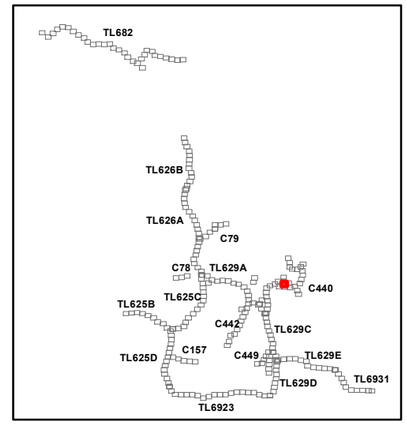
Attachment B-9:
C440
Prescribed Seed Mix
Map 19 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral
- Montane Wet Meadow



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C440

Attachment B-9:
C440
Prescribed Seed Mix
Map 20 of 33

Cleveland National Forest
Power Line Replacement Projects

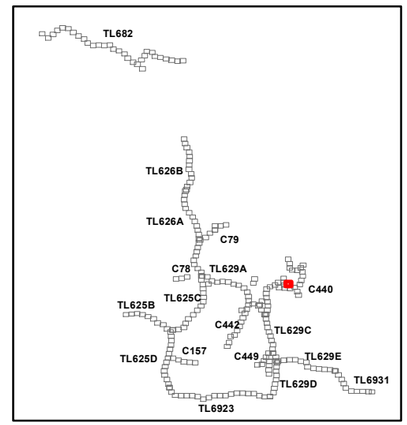
Undergrounding

Stringing Site

Access Road

Seed Mix Types

Montane Forest, Native Grassland, and Erosion Control



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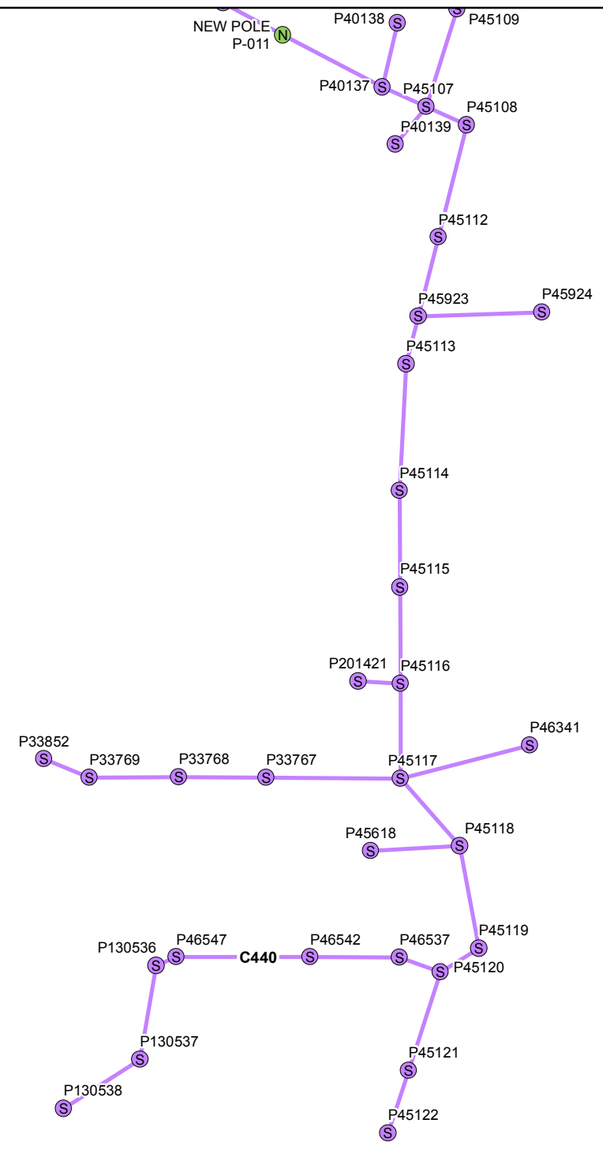


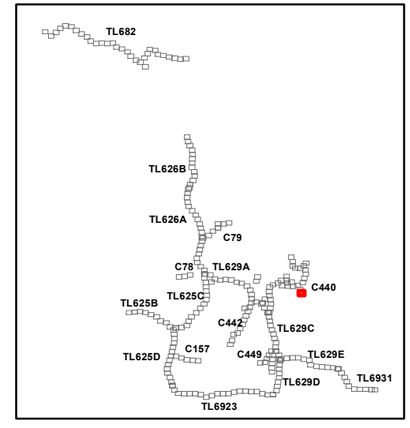
Attachment B-9:
C440
Prescribed Seed Mix
Map 21 of 33

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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P40128
P40129
C440
P40130
P40131
P40132
P40133
P40134
P40135
P40136
NEW POLE
P-011
P40137
P40138
P40139
P40140
P40141
P40142
P40143
P45107
P45108
P45109
P45110
P45111
P45112
P45113
P45923
P45924

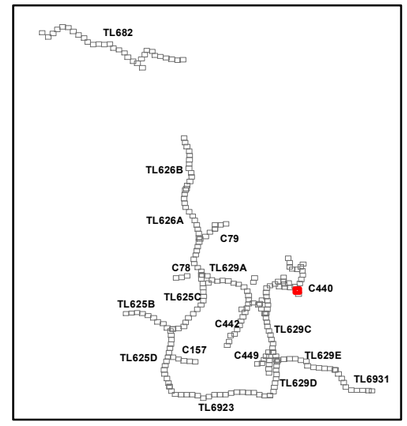
Attachment B-9:
C440
Prescribed Seed Mix
Map 22 of 33

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Mixed Chaparral and Scrub Oak Chaparral
- Montane Wet Meadow



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P45317
P40174
P40173
P40172
P40171
P40170
P40169
P164382
P40168
P40167
P40166
P40165
P40160
P40159
P45316
P40158
P40157
P40156
C440
P40155

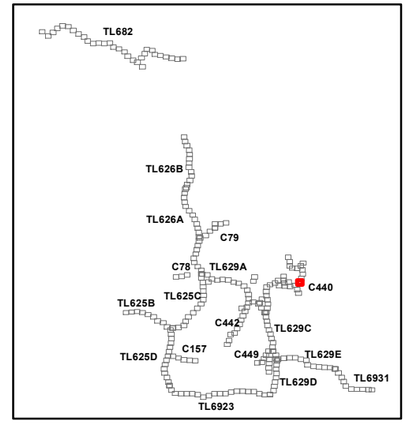
Attachment B-9:
C440
Prescribed Seed Mix
Map 23 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Wet Meadow



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P40193
P130387
P40196
P40195
P40198
P40094
P40199
P40200
P40197
P40093
P40189
P40188
P40192
P40187
P40191
P40186
P40190
P40185
P40184
P40183
P40182
P45318
C440
P40178
P40179
P40177
P40176
P40175
P40020
P40300
P40161
P138853
P45317
P40174
P40173
P40172

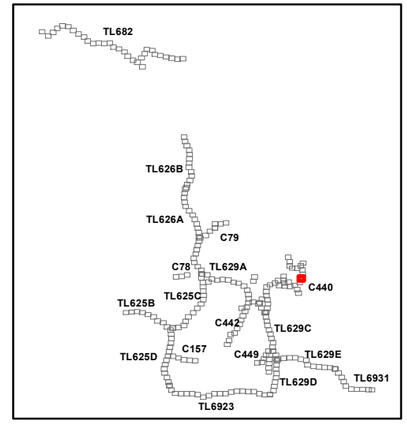
Attachment B-9:
C440
Prescribed Seed Mix
Map 24 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Wet Meadow



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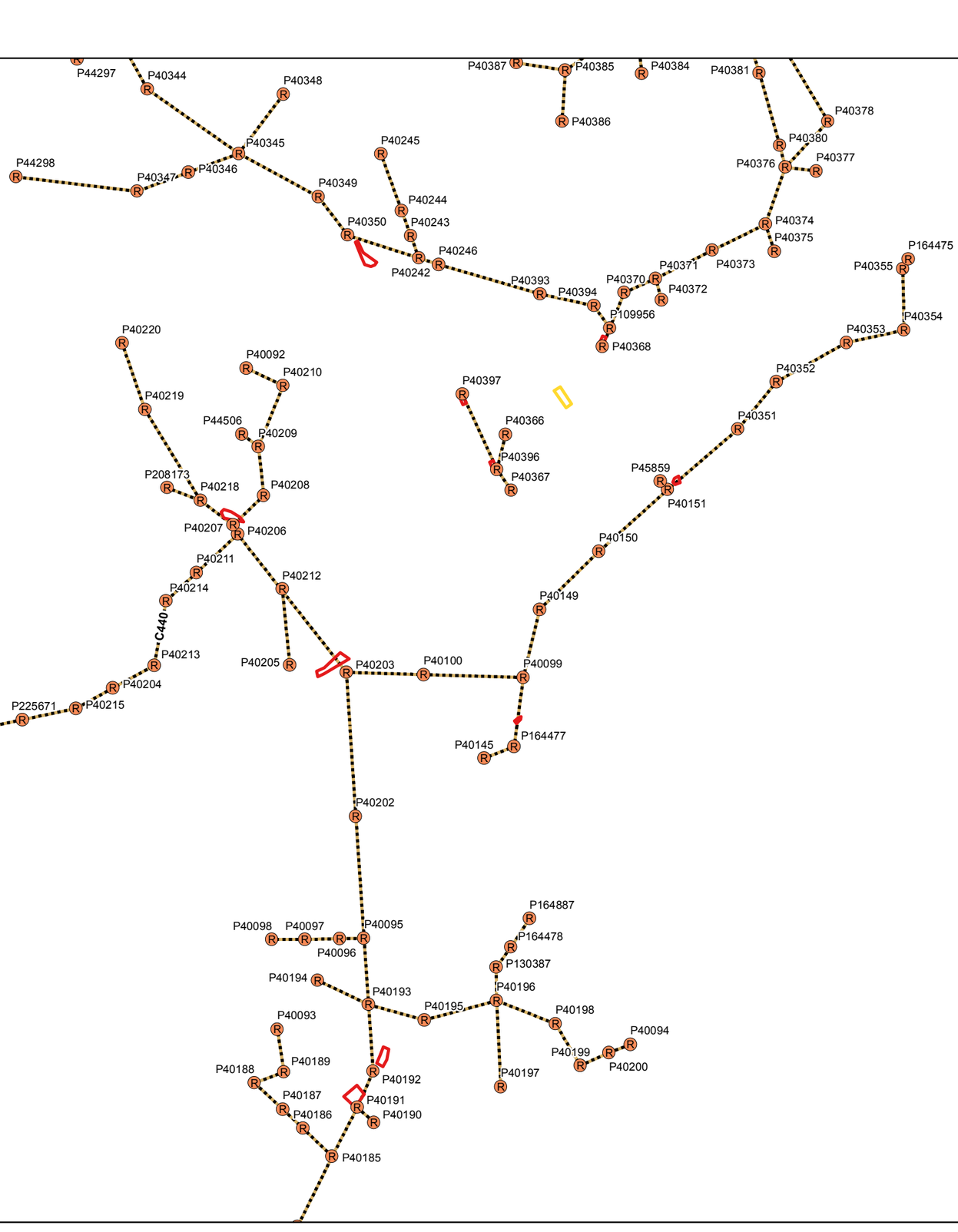
Attachment B-9:
C440
Prescribed Seed Mix
Map 25 of 33

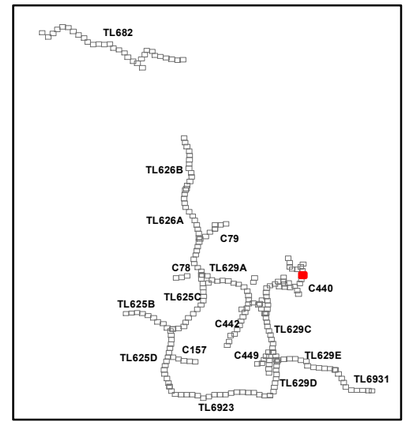
Cleveland National Forest
Power Line Replacement Projects



Seed Mix Types

- Removal Pole
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Montane Forest, Native Grassland, and Erosion Control



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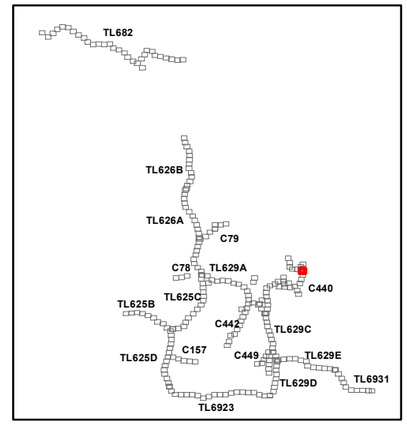
Attachment B-9:
C440
Prescribed Seed Mix
Map 26 of 33

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Wet Meadow



SDGE a Sempra Energy utility

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Attachment B-9:
C440
Prescribed Seed Mix
Map 27 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control

P40486
P40485
P40484
P40483
P40482
P40481
C440
P40480
P40478
P40477
P40476
P40475
P40474
P40473
P40472
P40471
P194592
P40470
P40469
P40468
P40467
P40466
P40456
P40455
P40458
P40459
P40460
P44603
P40461
P40463
P40336
P40335
P40334
P40333
P40452
P40451
P40450
P40324
P40325
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P40440
P40439
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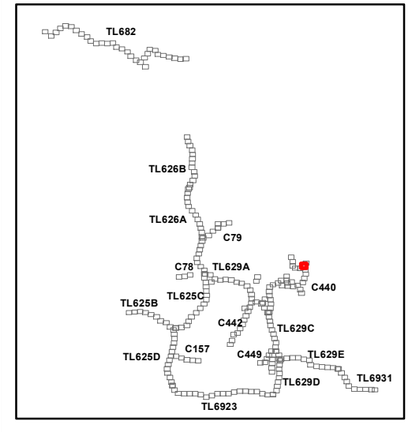

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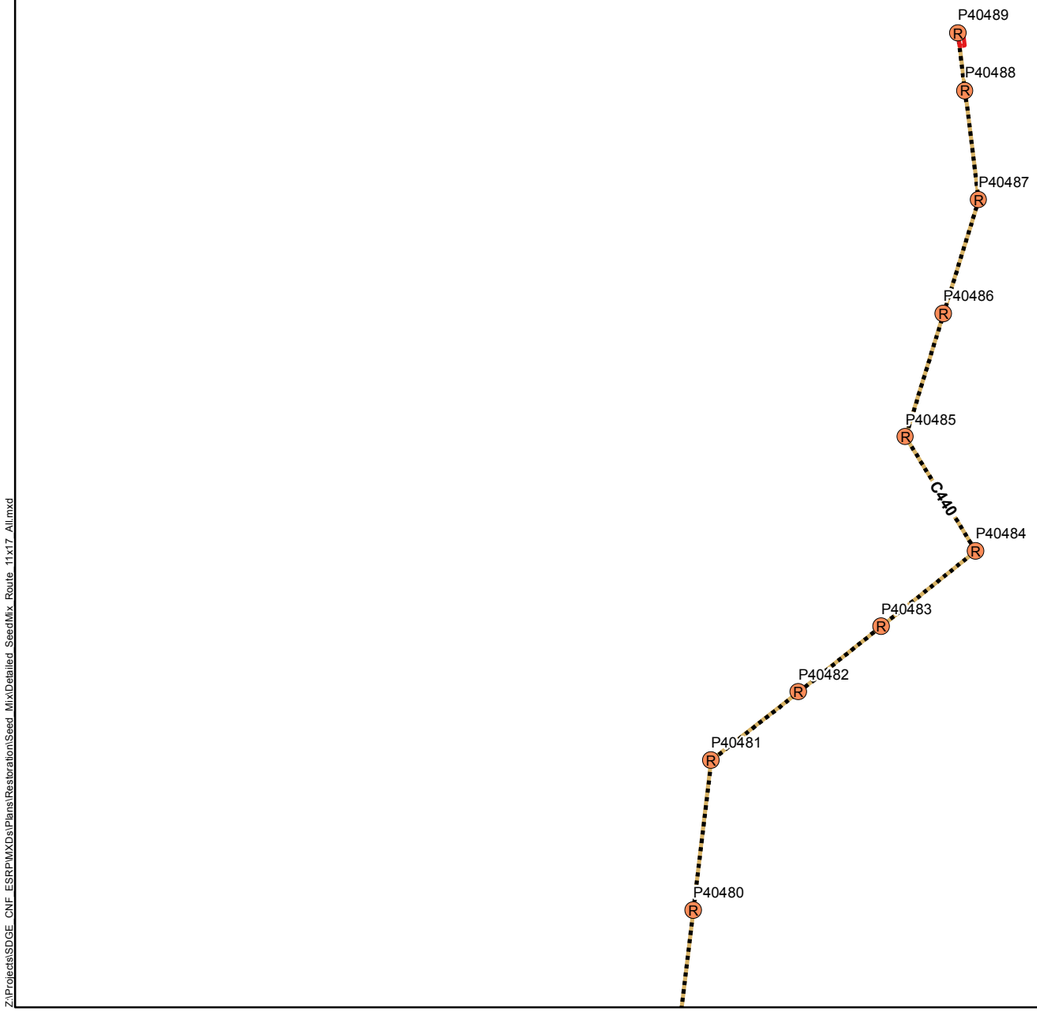


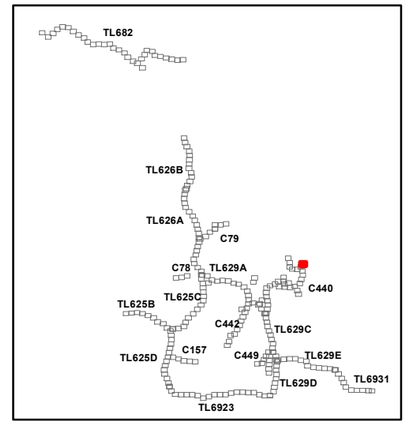
Attachment B-9:
C440
Prescribed Seed Mix
Map 28 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control



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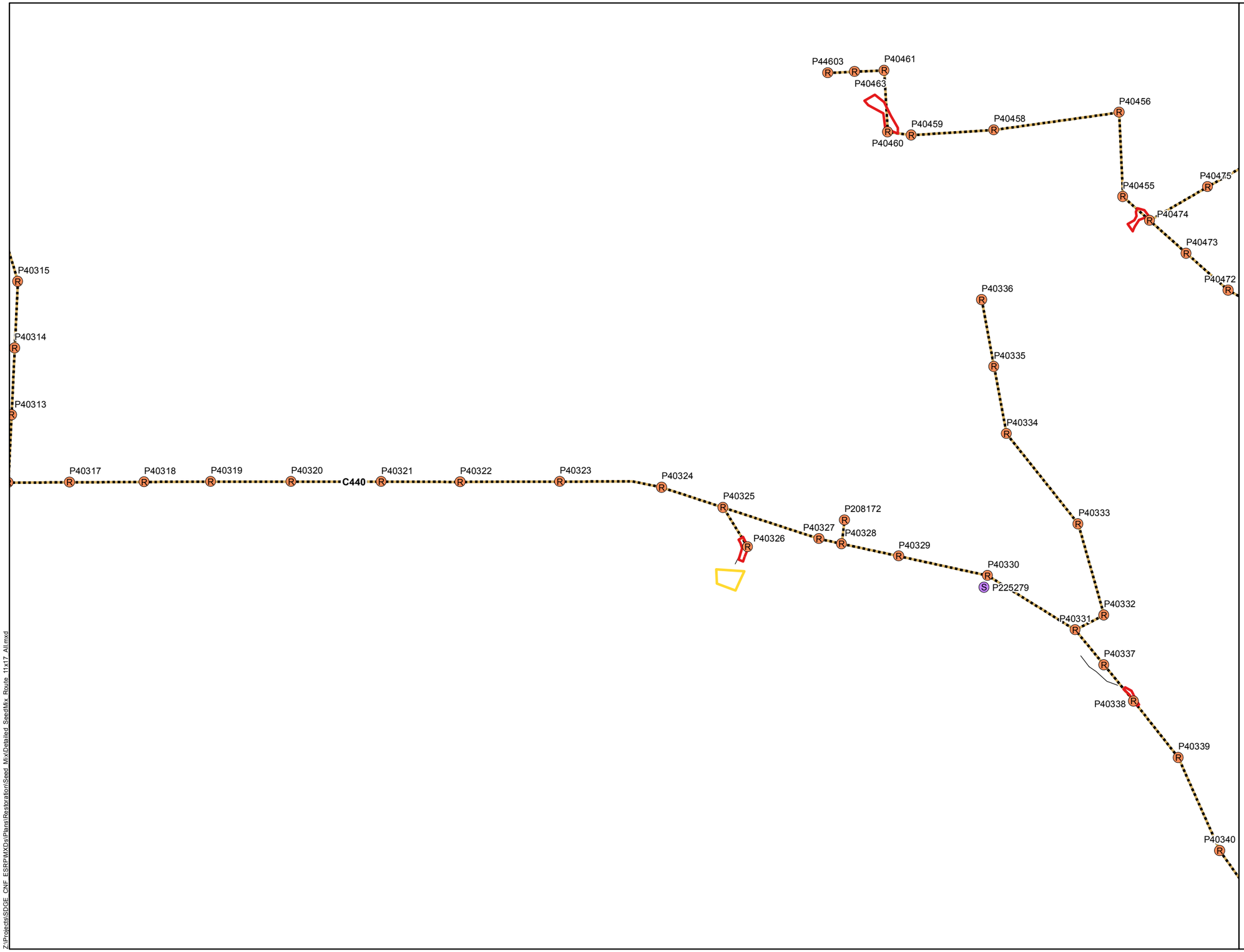
Attachment B-9:
C440
Prescribed Seed Mix
Map 29 of 33

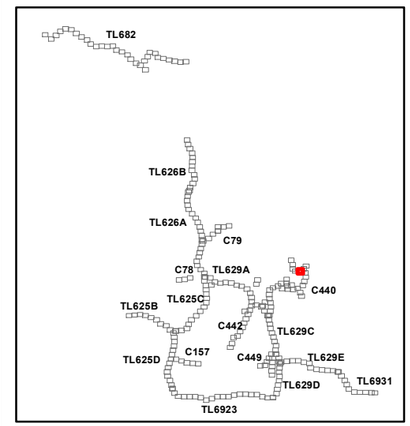
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Wet Meadow





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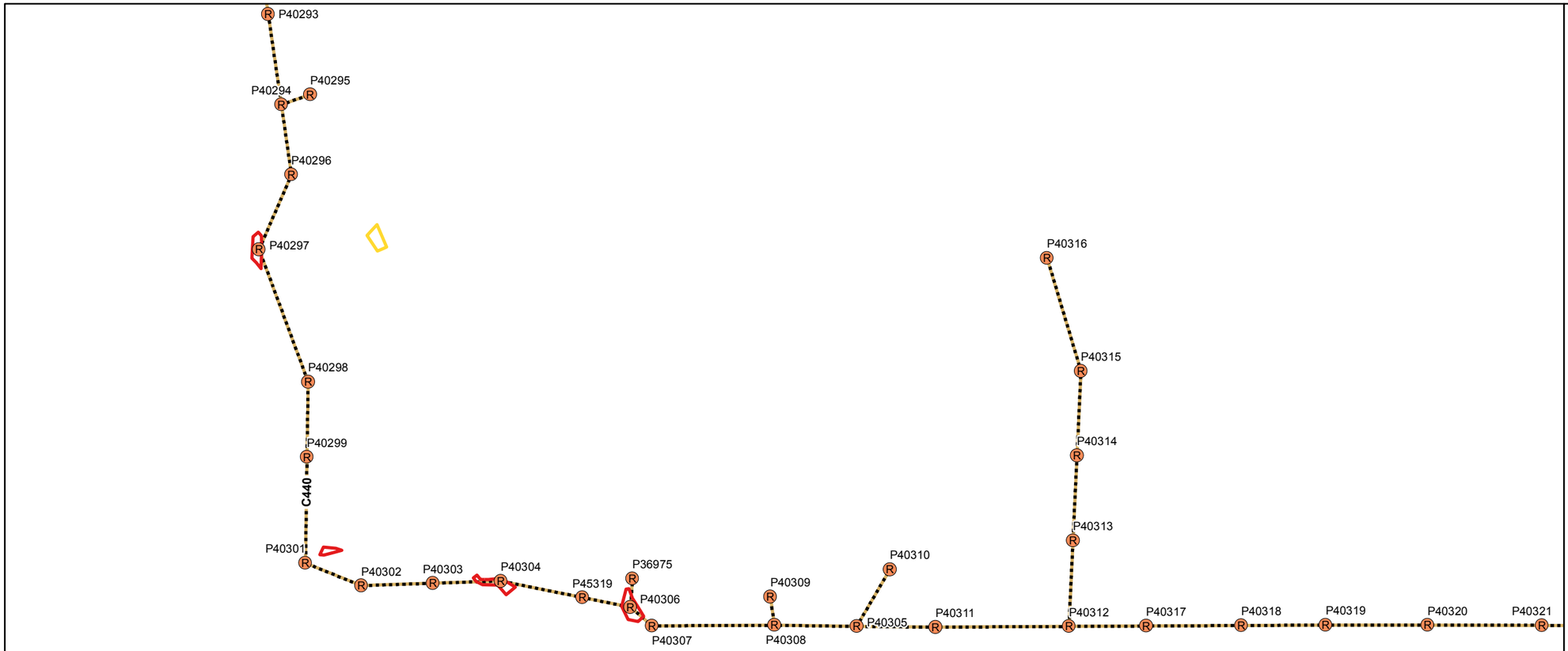


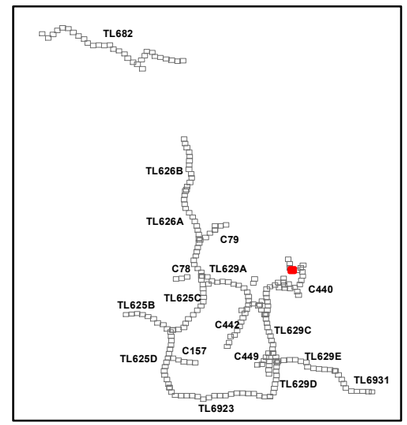
Attachment B-9:
C440
Prescribed Seed Mix
Map 30 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Wet Meadow



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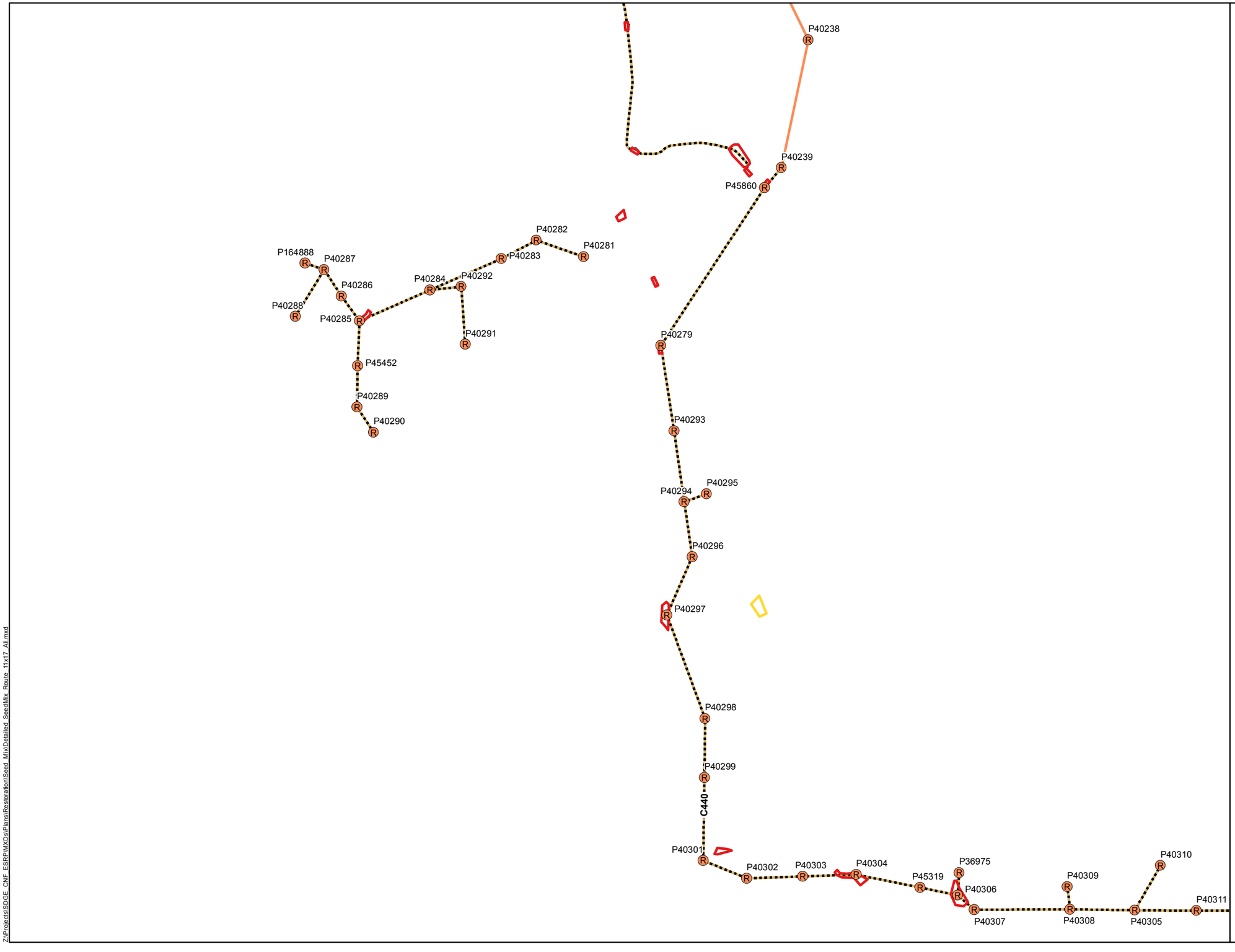
Attachment B-9:
C440
Prescribed Seed Mix
Map 31 of 33

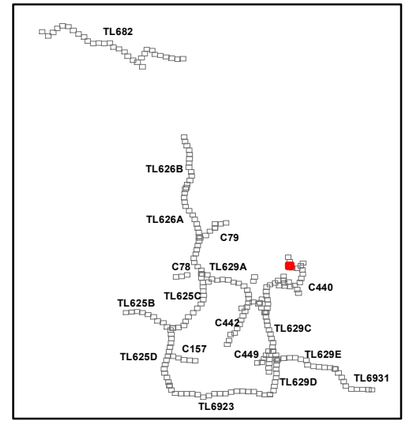
Cleveland National Forest
Power Line Replacement Projects



Removal Pole
Removal
Undergrounding
Staging Area
Stringing Site
Access Road

Seed Mix Types

Montane Wet Meadow



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P40278
P40277
P46564
P40228
P40229
P40230
P40231
P40232
P40233
P40234
P40235
C440
P40236
P40237
P40238
P40239
P45860
P40282
P40283
P40281
P164888

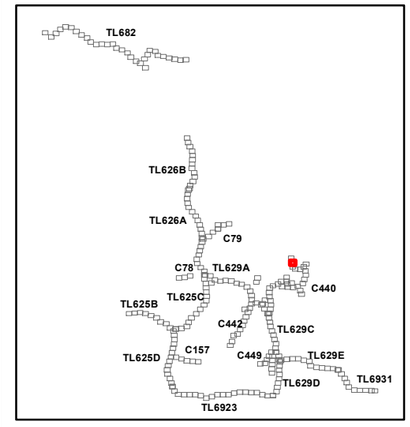
Attachment B-9:
C440
Prescribed Seed Mix
Map 32 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Wet Meadow



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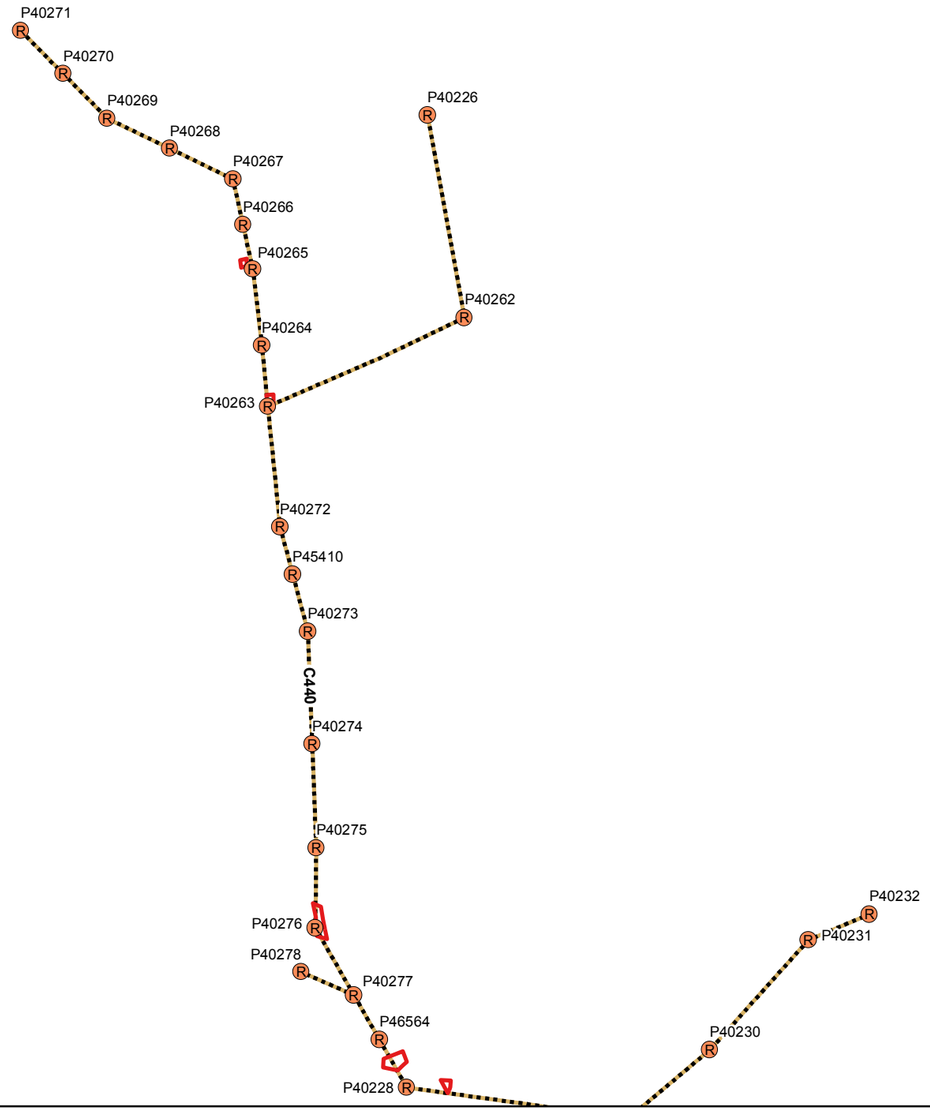


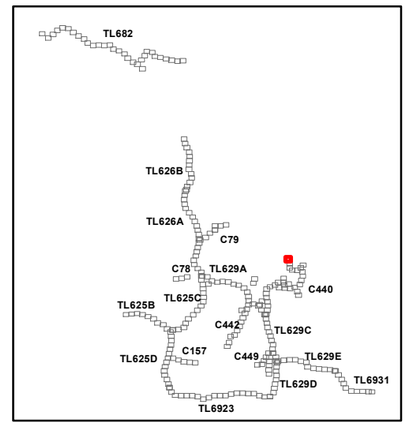
Attachment B-9:
C440
Prescribed Seed Mix
Map 33 of 33

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Montane Forest, Native Grassland, and Erosion Control
- Montane Wet Meadow



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ATTACHMENT B-10: TL626 PRESCRIBED SEED MIX APPLICATION MAPPING

Attachment B-10:
TL626A
Prescribed Seed Mix
Map 1 of 21

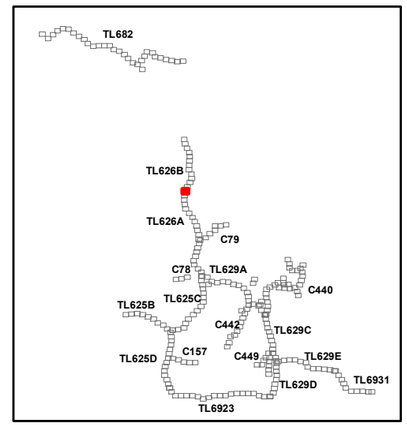
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



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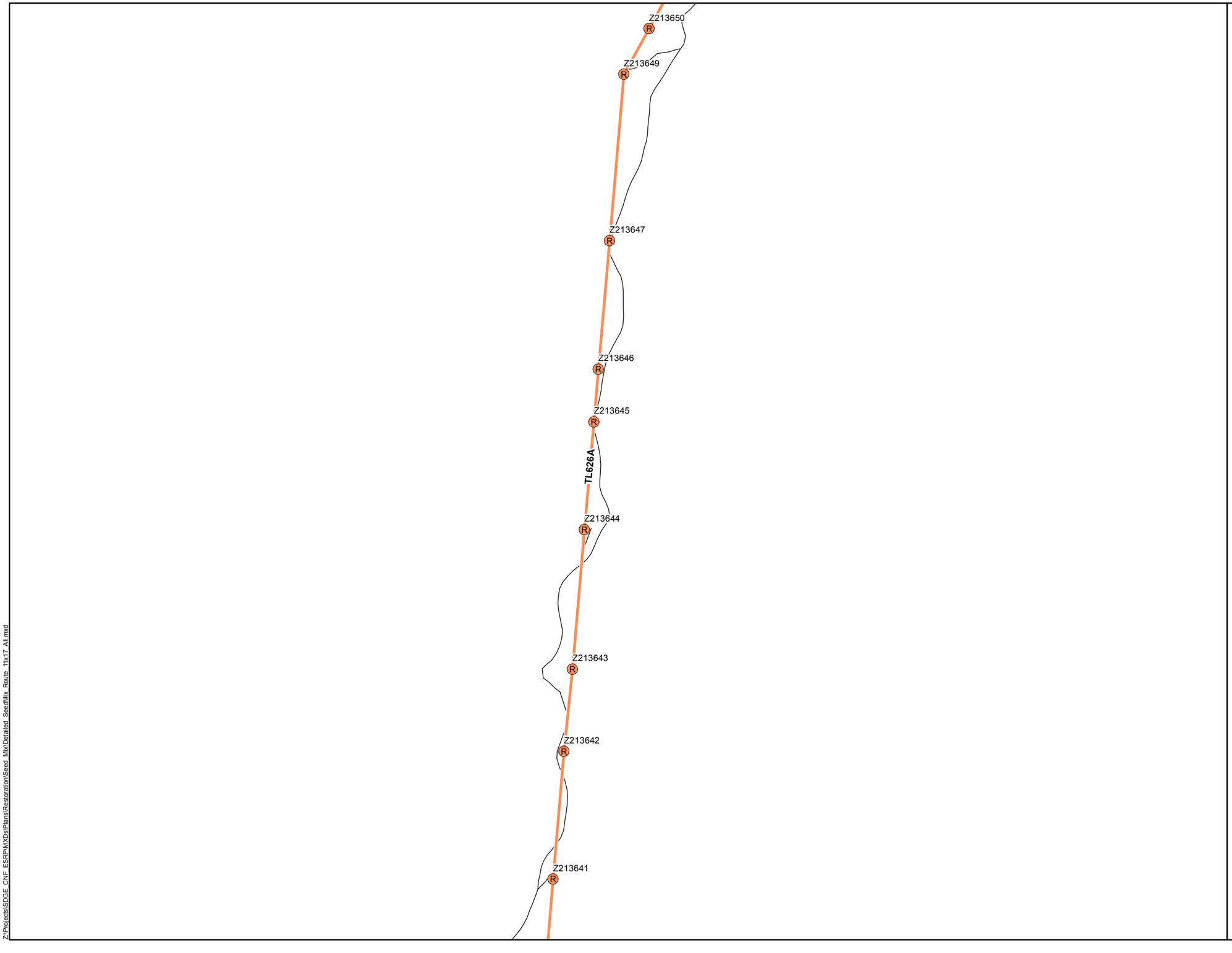


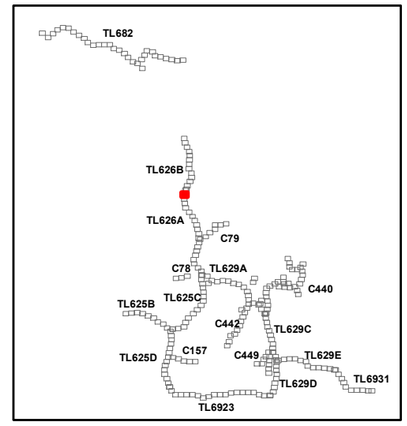
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 2 of 21

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



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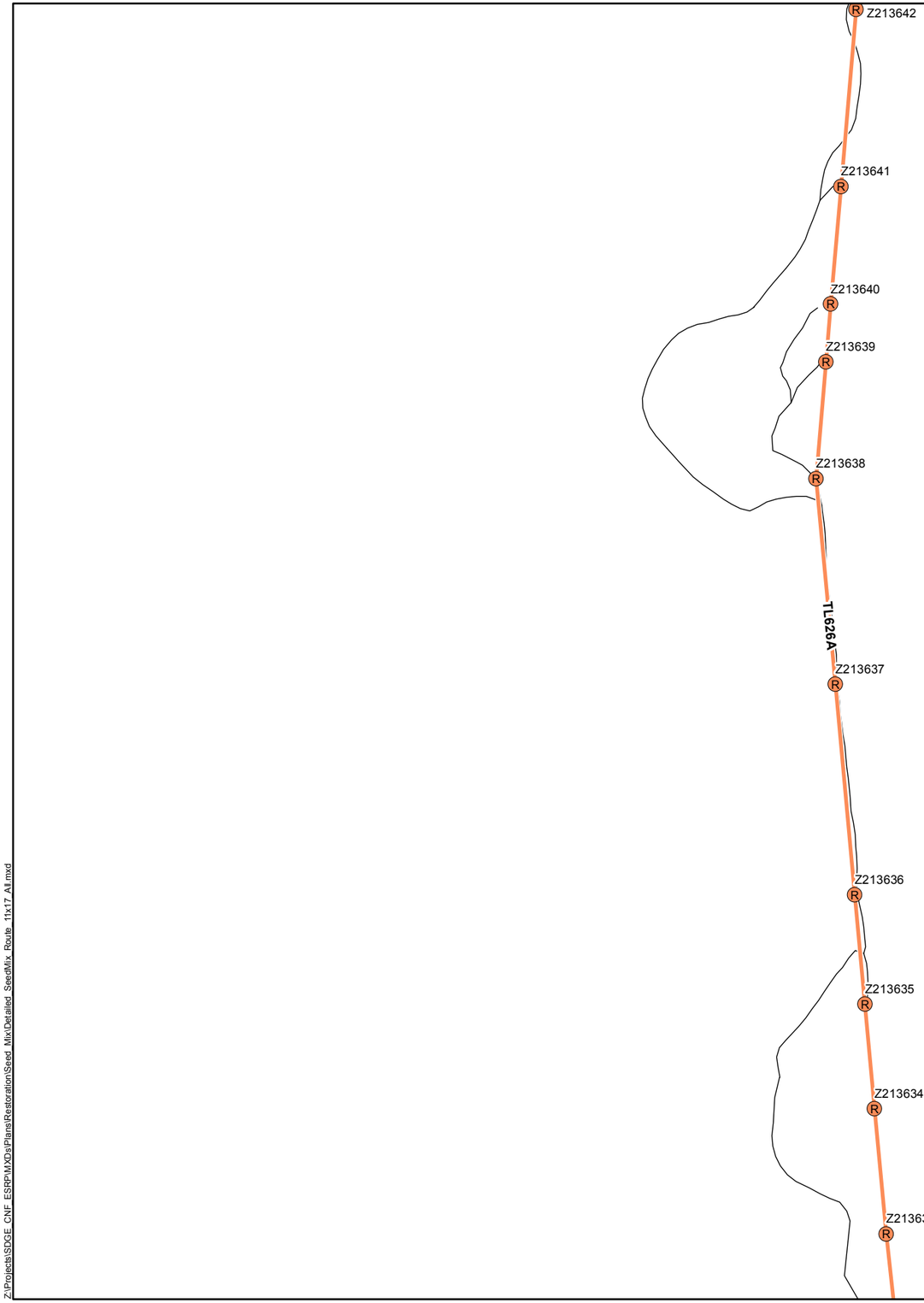
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 3 of 21

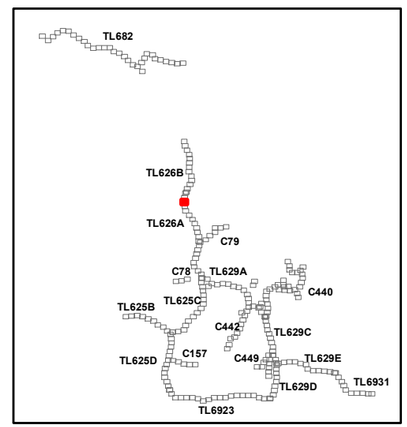
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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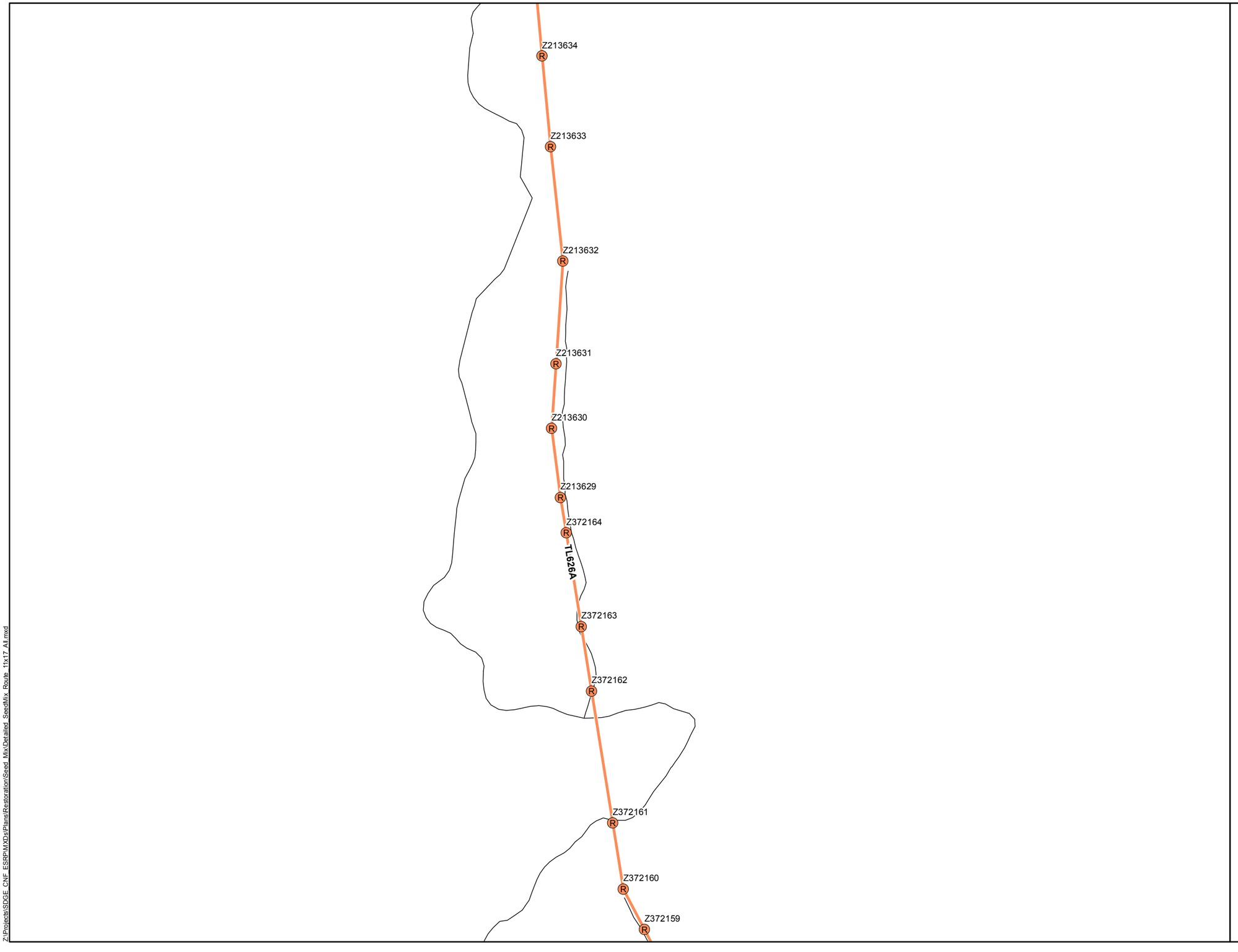


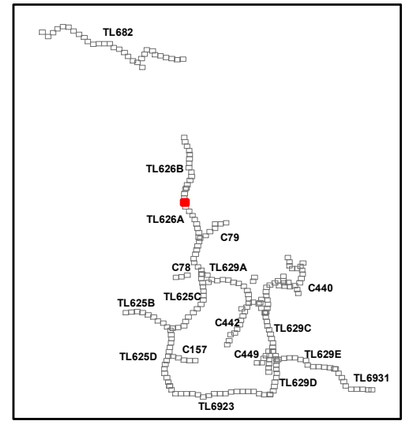
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 4 of 21

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Chamise Chaparral
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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Attachment B-10:
TL626A
Prescribed Seed Mix
Map 5 of 21

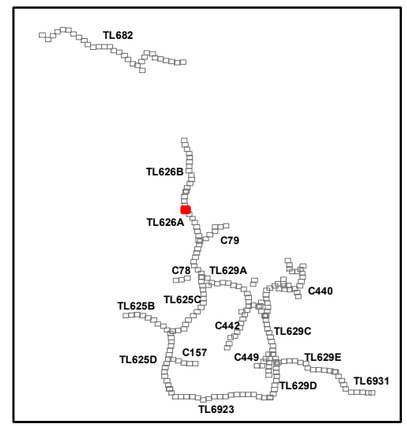
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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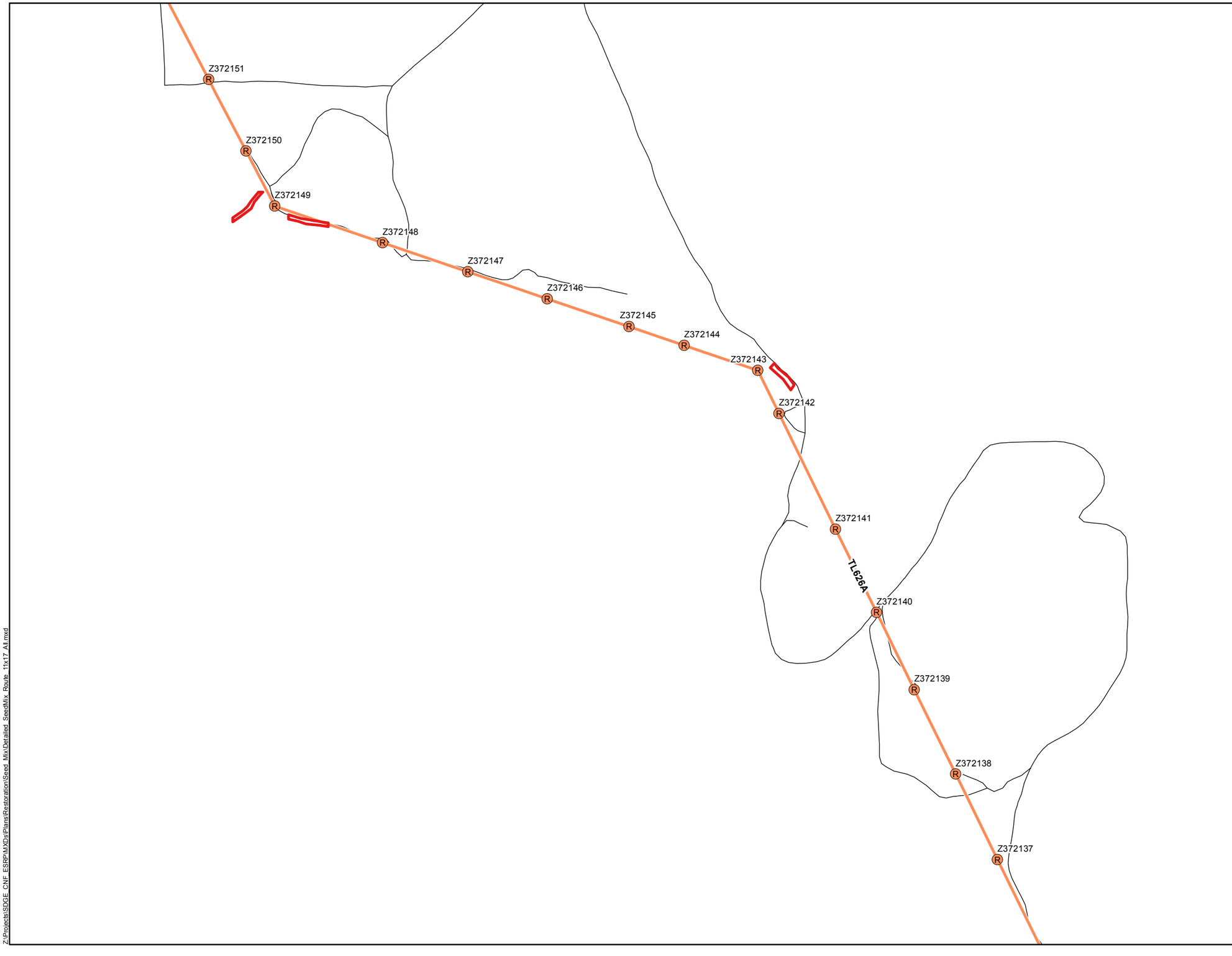
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 6 of 21

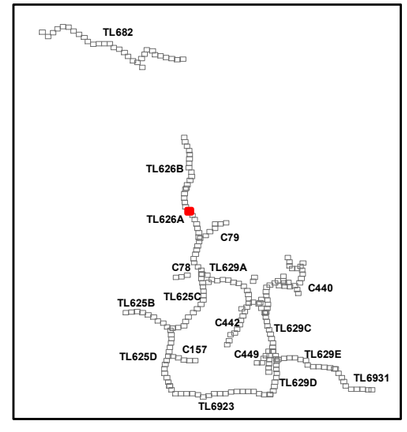
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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6/17/2016

Z372138
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Z372136
Z372135
Z372134
Z372133
TL626A
Z372132
Z372131
Z372130
Z372129
Z372128

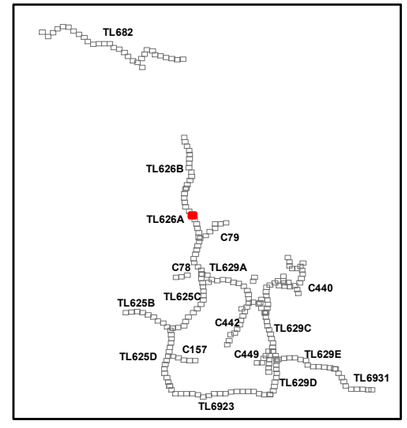
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 7 of 21

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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Z372126
TL626A
Z372125
Z372123
Z372122
Z372121
Z372120
Z372119
Z372118

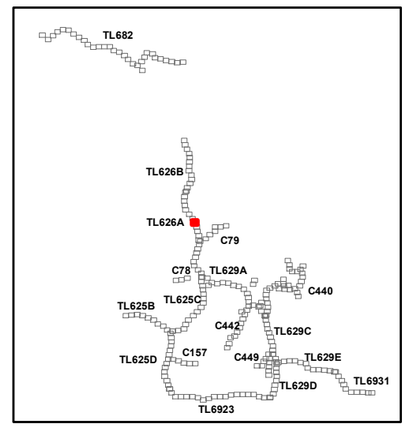
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 8 of 21

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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TL626A
Z372116
Z372115
Z372114
Z372113
Z372112
Z372111
Z372110
Z372109

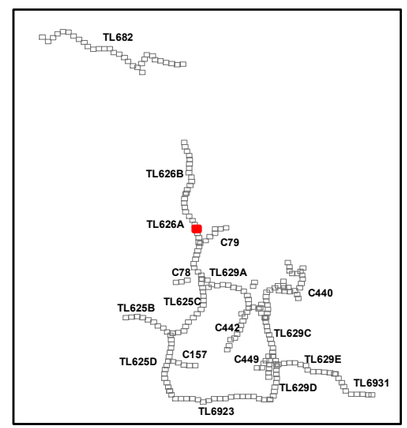
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 9 of 21

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Fly Yard
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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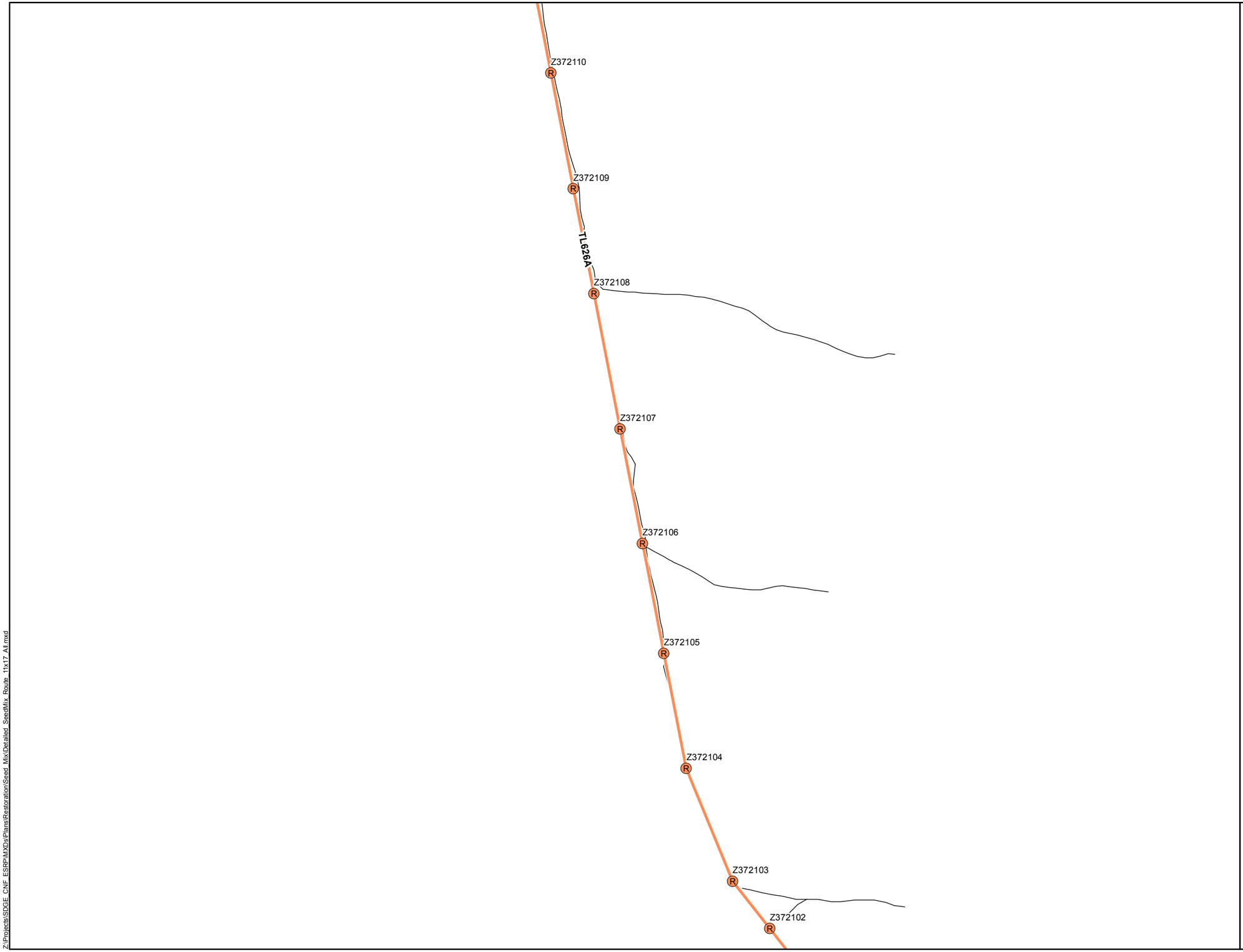
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 10 of 21

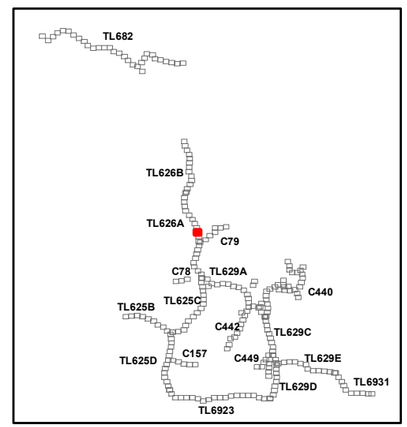
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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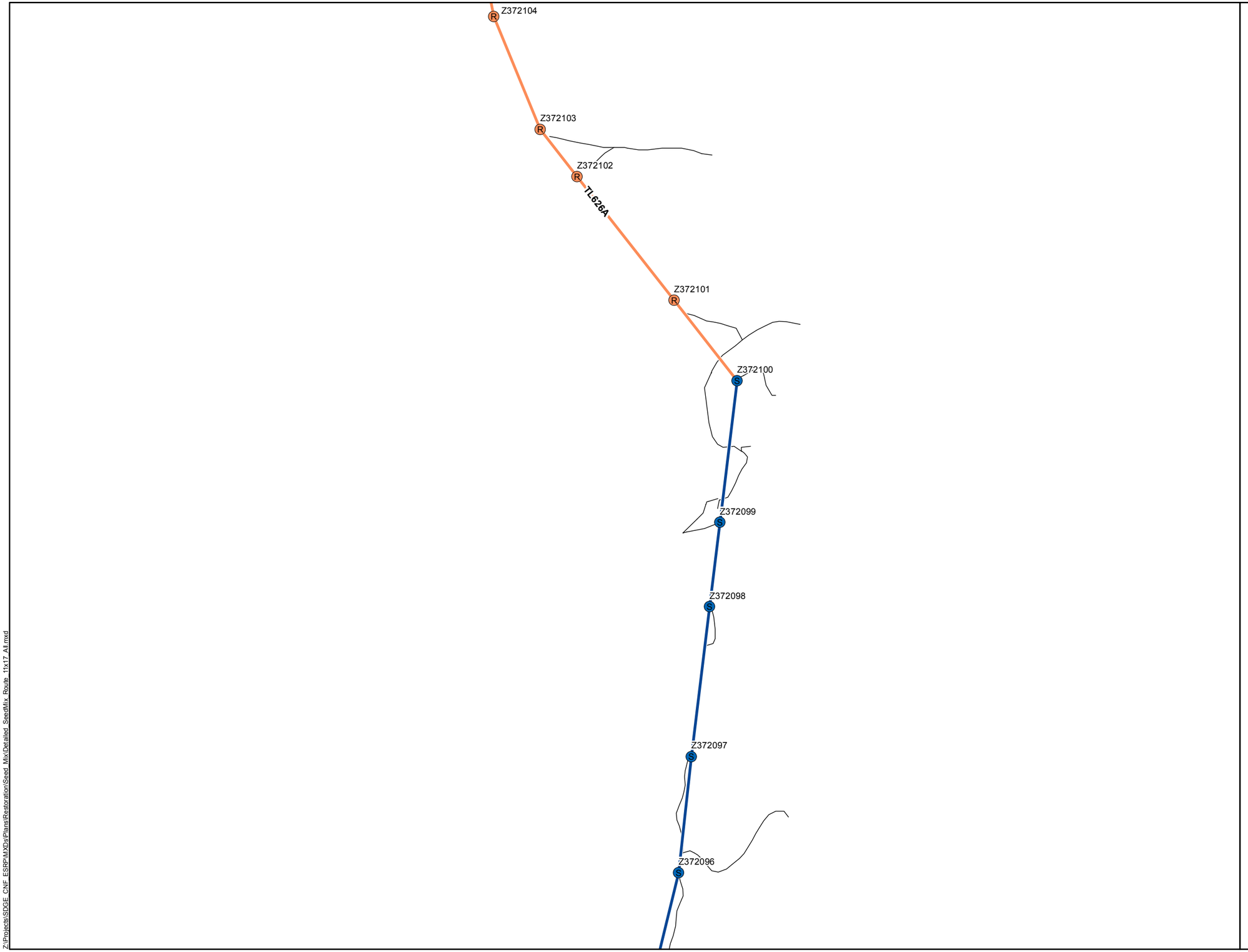


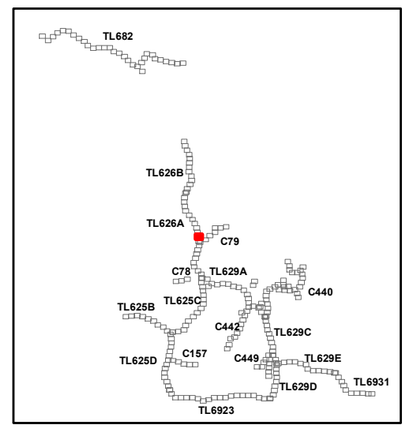
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 11 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Removal Pole
- Removal
- Wood-to-Steel 12 kV
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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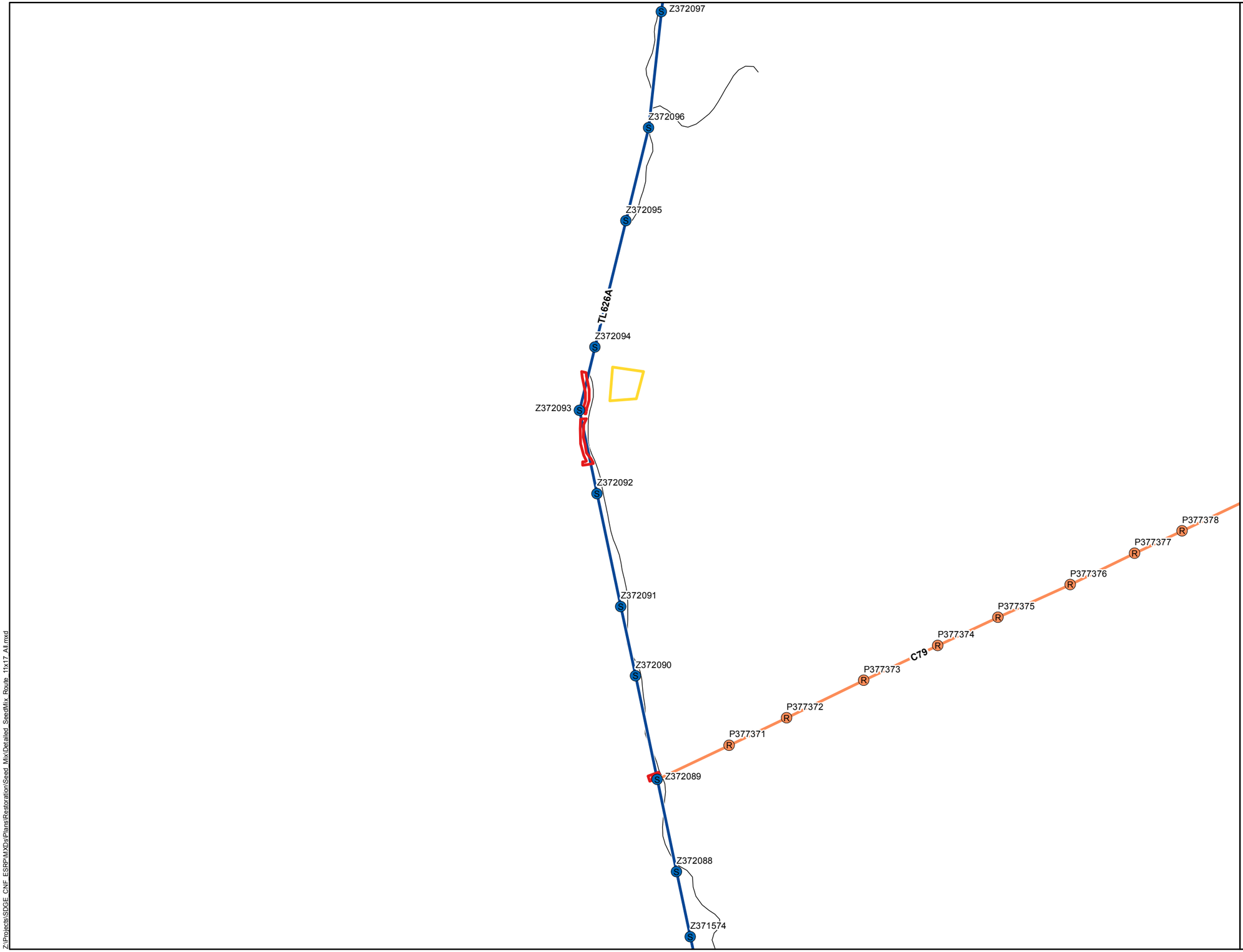
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 12 of 21

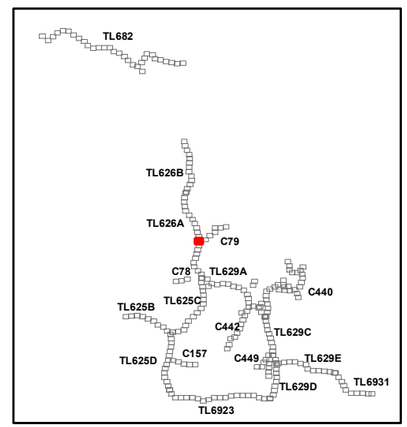
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel 12 kV Pole
- Removal Pole
- Removal
- Wood-to-Steel 12 kV
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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TL626A
Z371570
Z371569
Z371568
Z371567
Z371566
Z371565

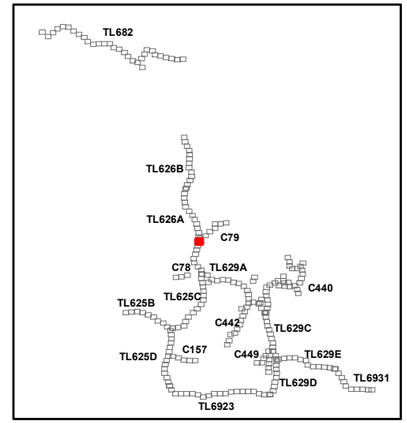
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 13 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Removal Pole
- Removal
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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Z371559
Z371558
Z371557

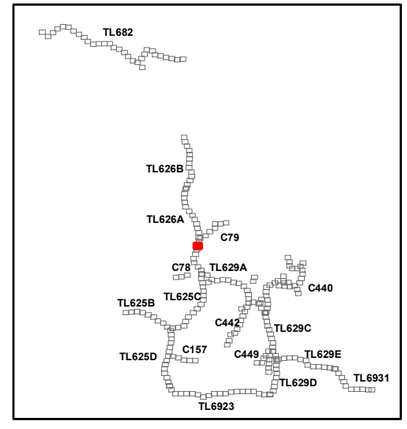
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 14 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Wood-to-Steel 12 kV
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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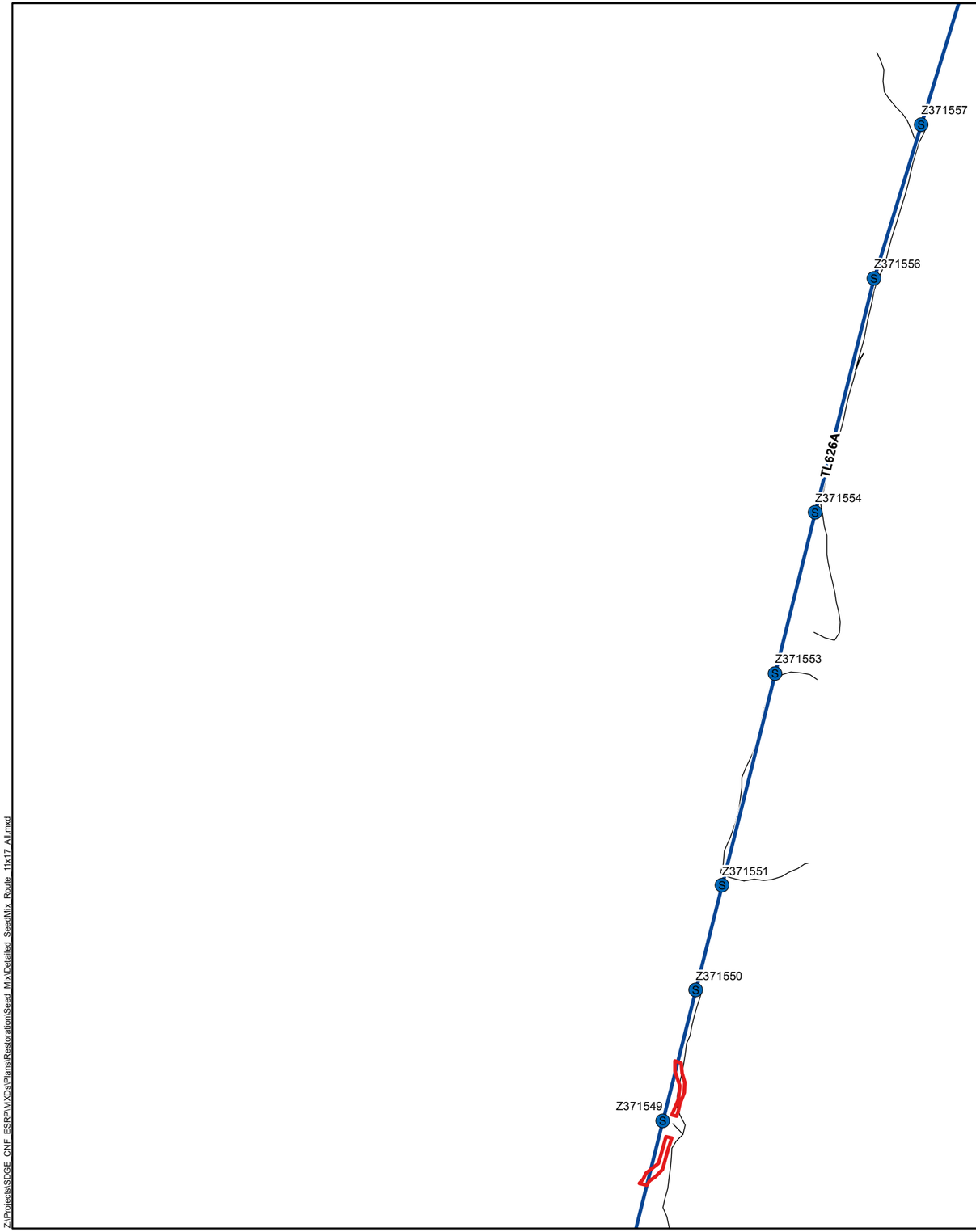
0 200 400 Feet

6/17/2016

Attachment B-10:
TL626A
Prescribed Seed Mix
Map 15 of 21

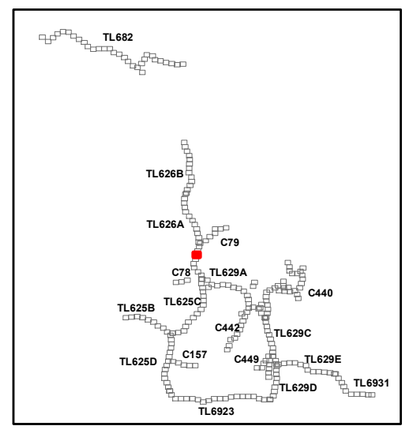
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel 12 kV Pole
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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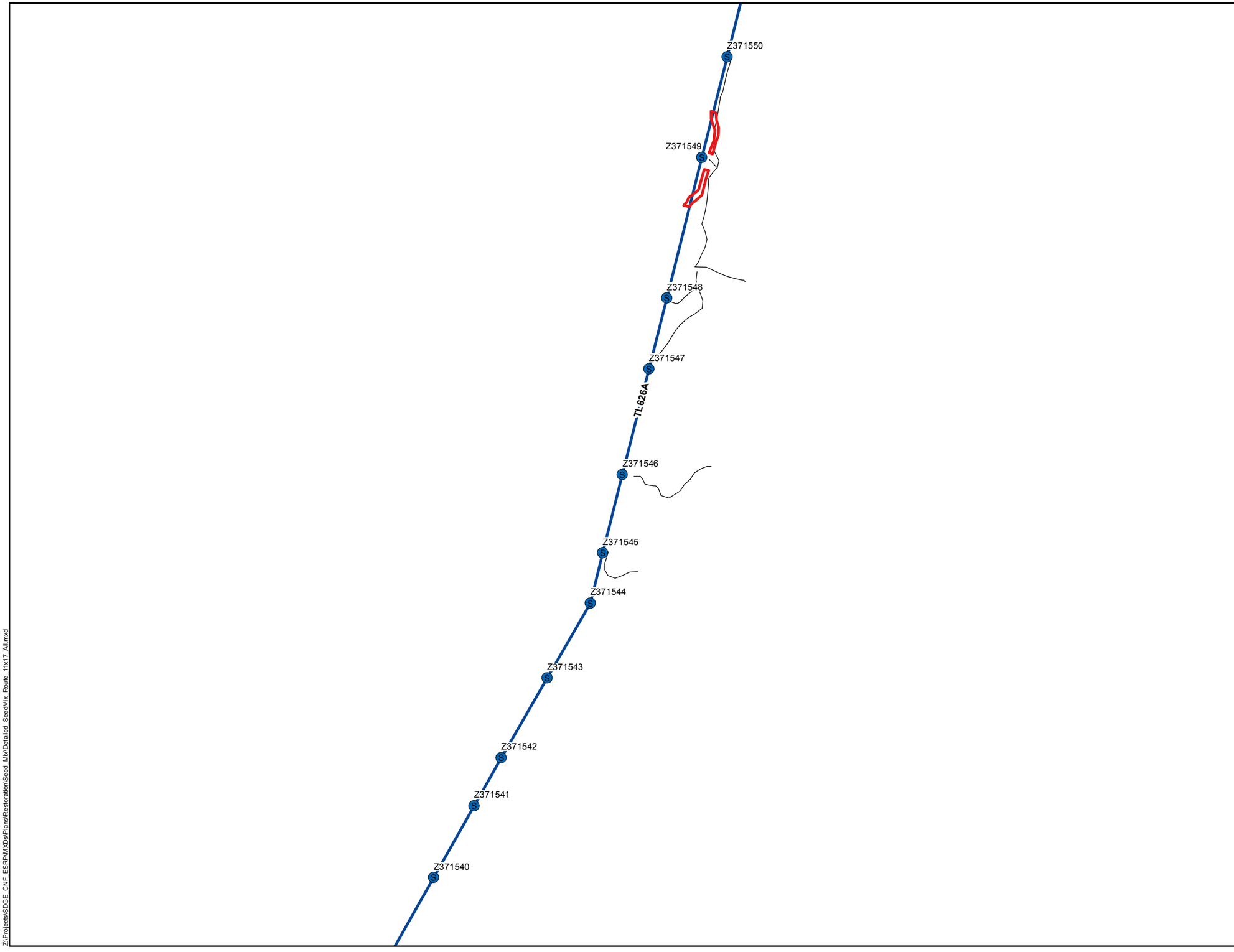


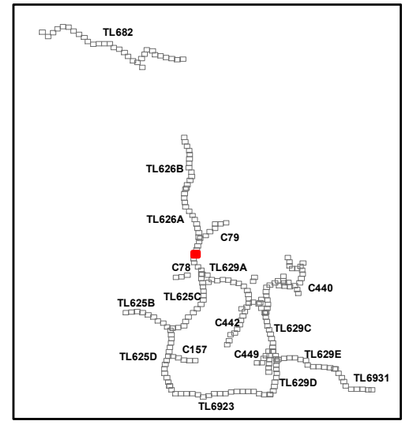
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 16 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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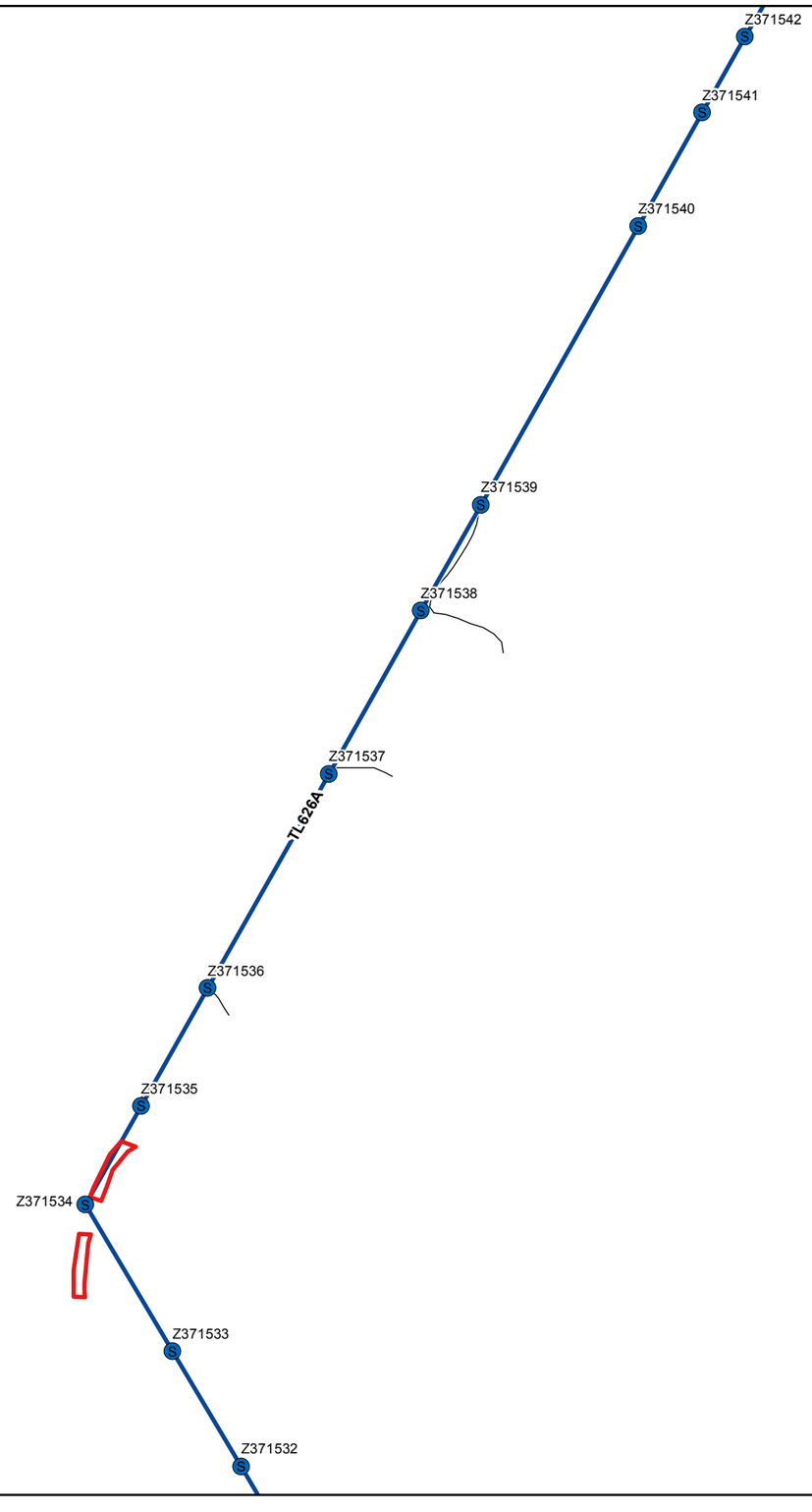


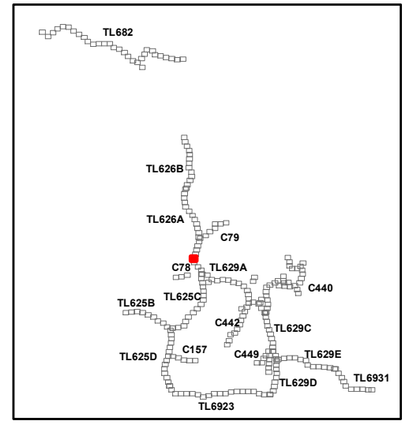
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 17 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Z371524
Z371523
Z371522
Z371521

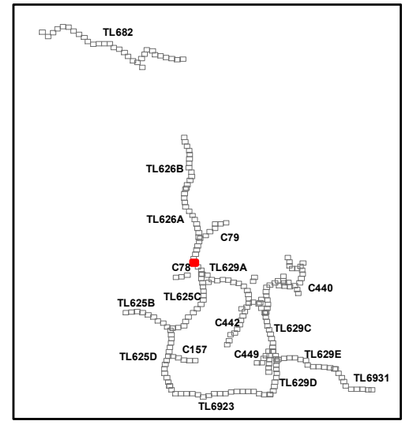
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 18 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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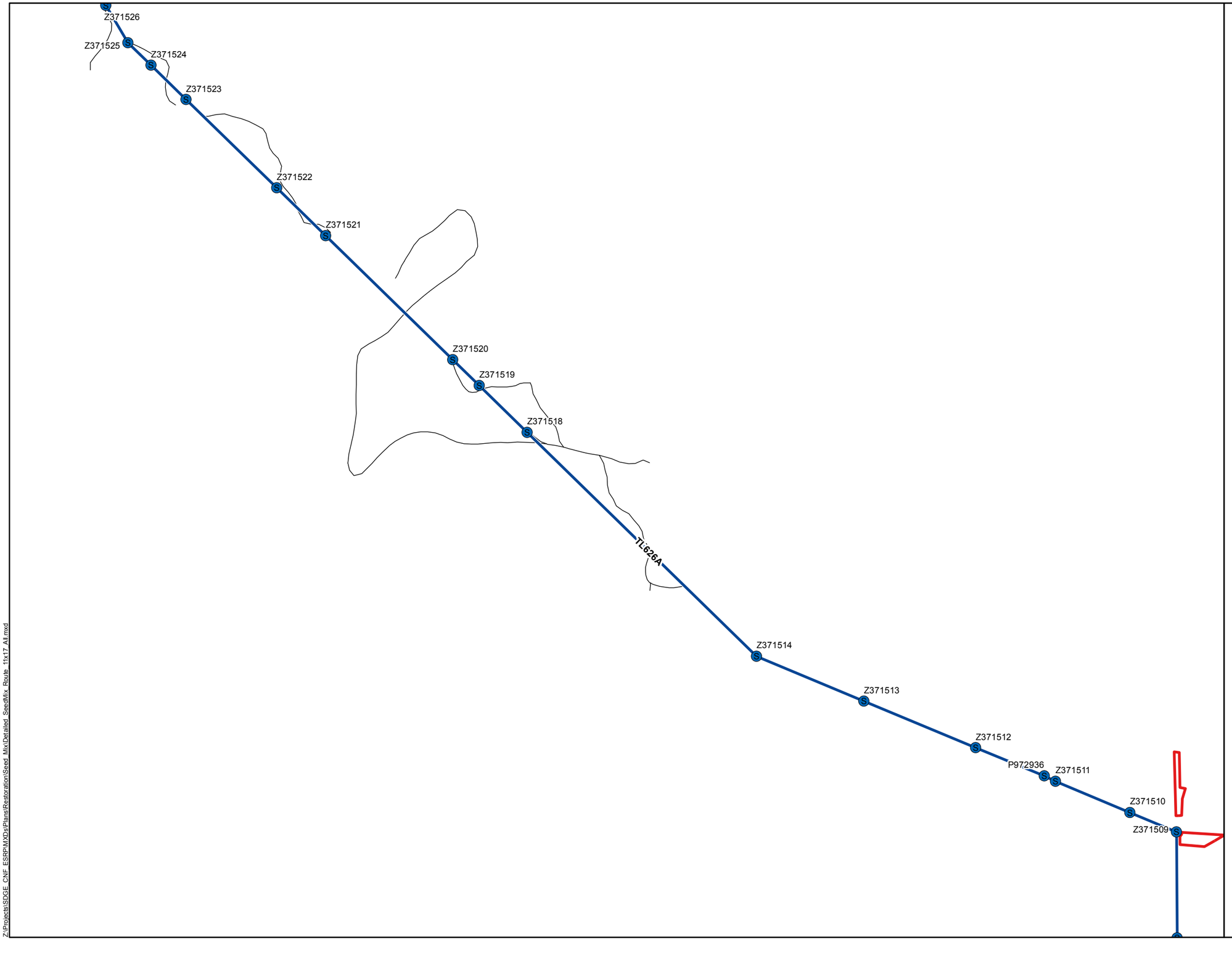
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 19 of 21

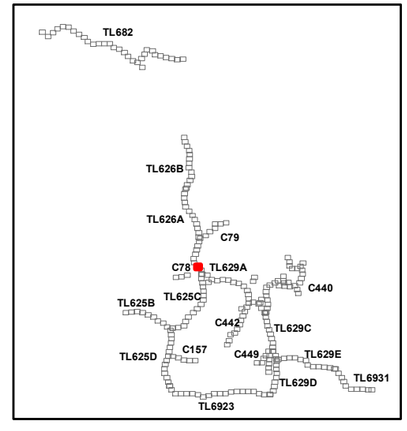
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel 12 kV Pole
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Z371503
Z371502
P778979

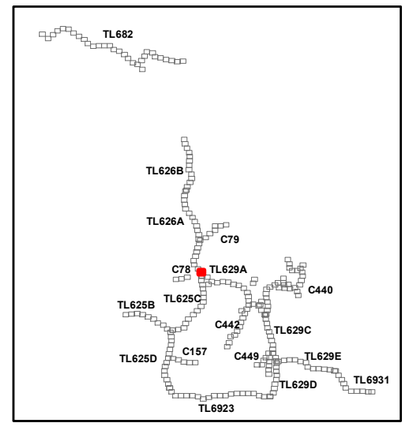
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 20 of 21

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel 12 kV Pole
- Wood-to-Steel 12 kV
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



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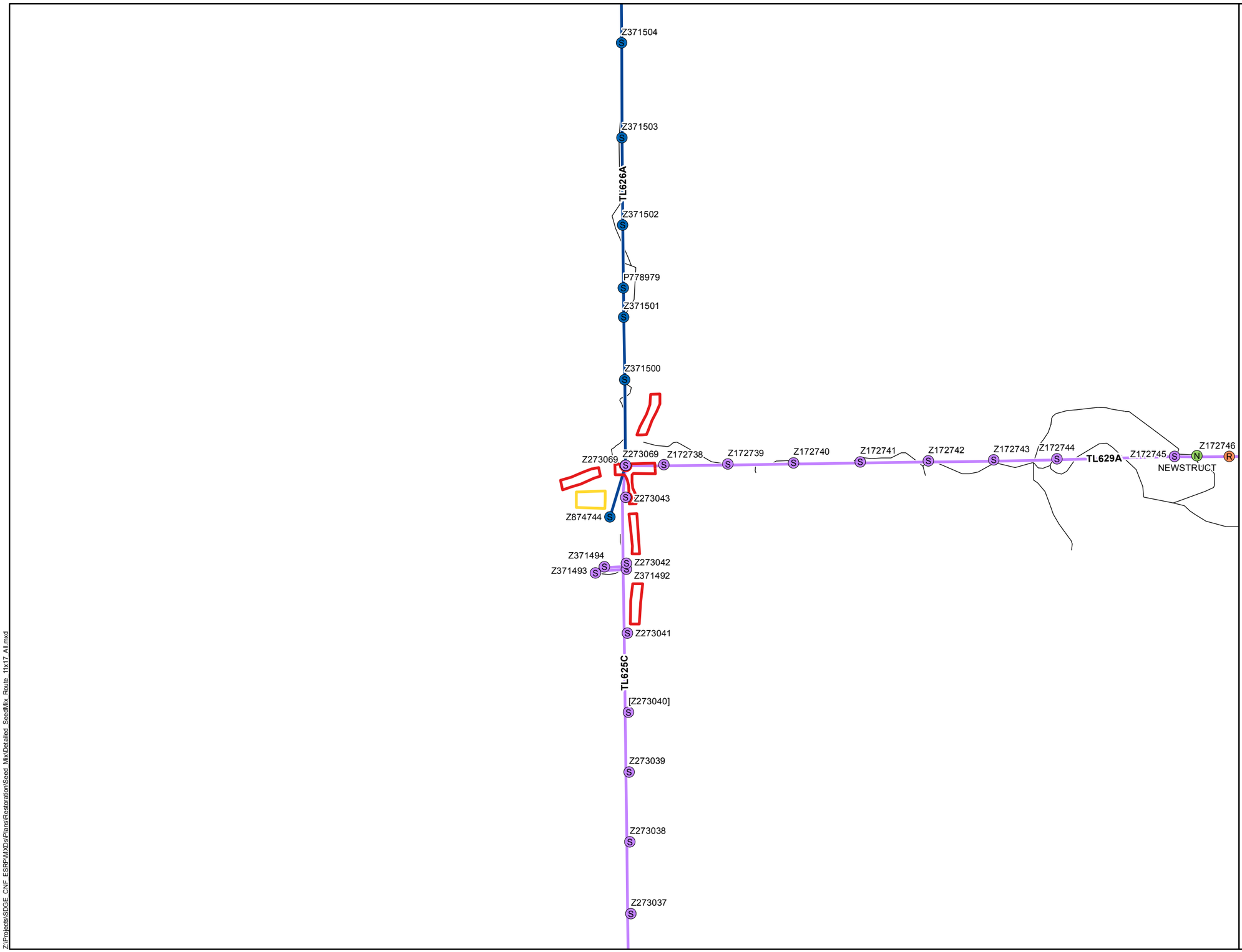
Attachment B-10:
TL626A
Prescribed Seed Mix
Map 21 of 21

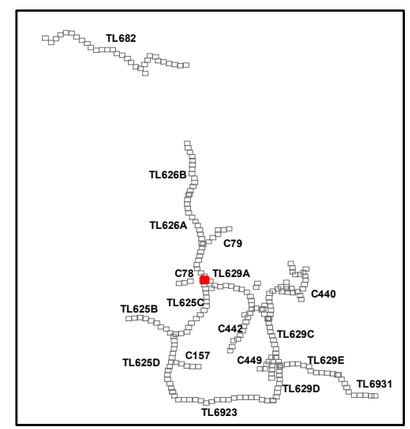
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel 12 kV Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel 12 kV
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub
- Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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ATTACHMENT B-11: C449 PRESCRIBED SEED MIX APPLICATION MAPPING

P42793

P42794

P42795

C449

P42796

P42797

P42798

P42911

P42912

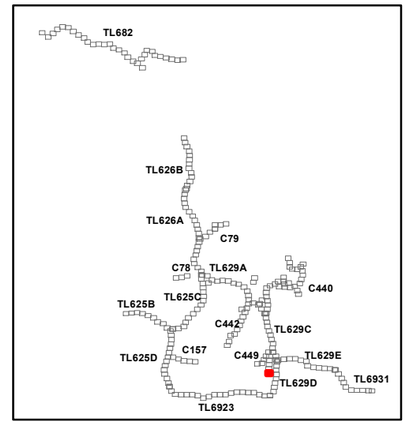
Attachment B-11:
C449
Prescribed Seed Mix
Map 1 of 11

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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P42790

C449

P42791

P42792

P42793

P42794

Attachment B-11:
C449
Prescribed Seed Mix
Map 2 of 11

Cleveland National Forest
Power Line Replacement Projects

Removal Pole

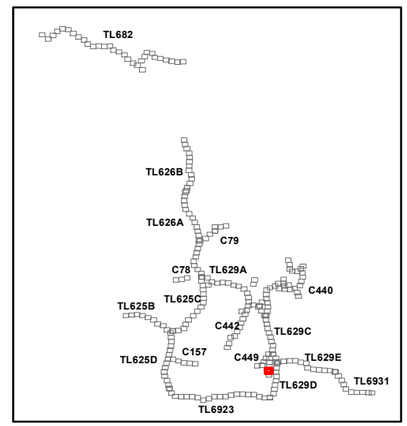
Removal

Access Road

Seed Mix Types

Meadow / Seep and Southern Willow Scrub

Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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C449
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P42750
P42751
P42782
P42783
P42784
P42785
P42786

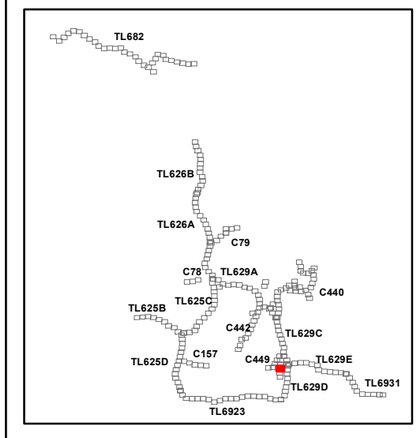
Attachment B-11:
C449
Prescribed Seed Mix
Map 3 of 11

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Big Sage Scrub and Mixed Oak Woodland
- Meadow / Seep and Southern Willow Scrub
- Oak Savanna, Non-Native Grassland, and Erosion Control



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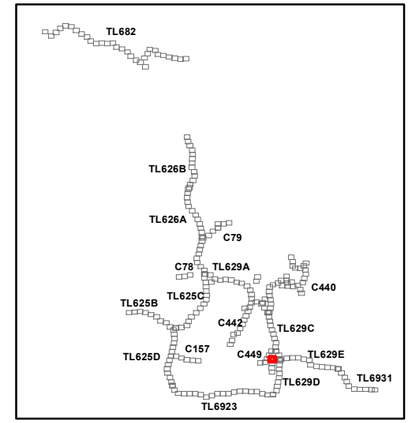
Attachment B-11:
C449
Prescribed Seed Mix
Map 4 of 11

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub and Mixed Oak Woodland
- Coastal Sage / Chaparral
- Meadow / Seep and Southern Willow Scrub
- Oak Savanna, Non-Native Grassland, and Erosion Control



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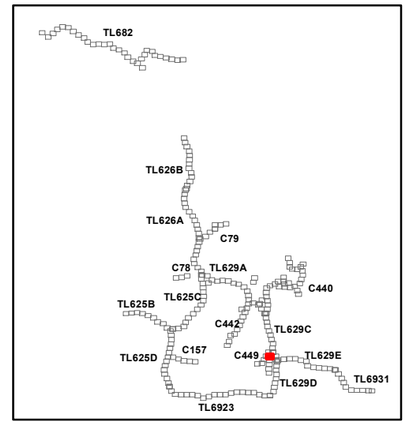
Attachment B-11:
C449
Prescribed Seed Mix
Map 5 of 11

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Removal Pole
- New Steel
- Removal
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub and Mixed Oak Woodland
- Coastal Sage / Chaparral
- Meadow / Seep and Southern Willow Scrub
- Oak Savanna, Non-Native Grassland, and Erosion Control



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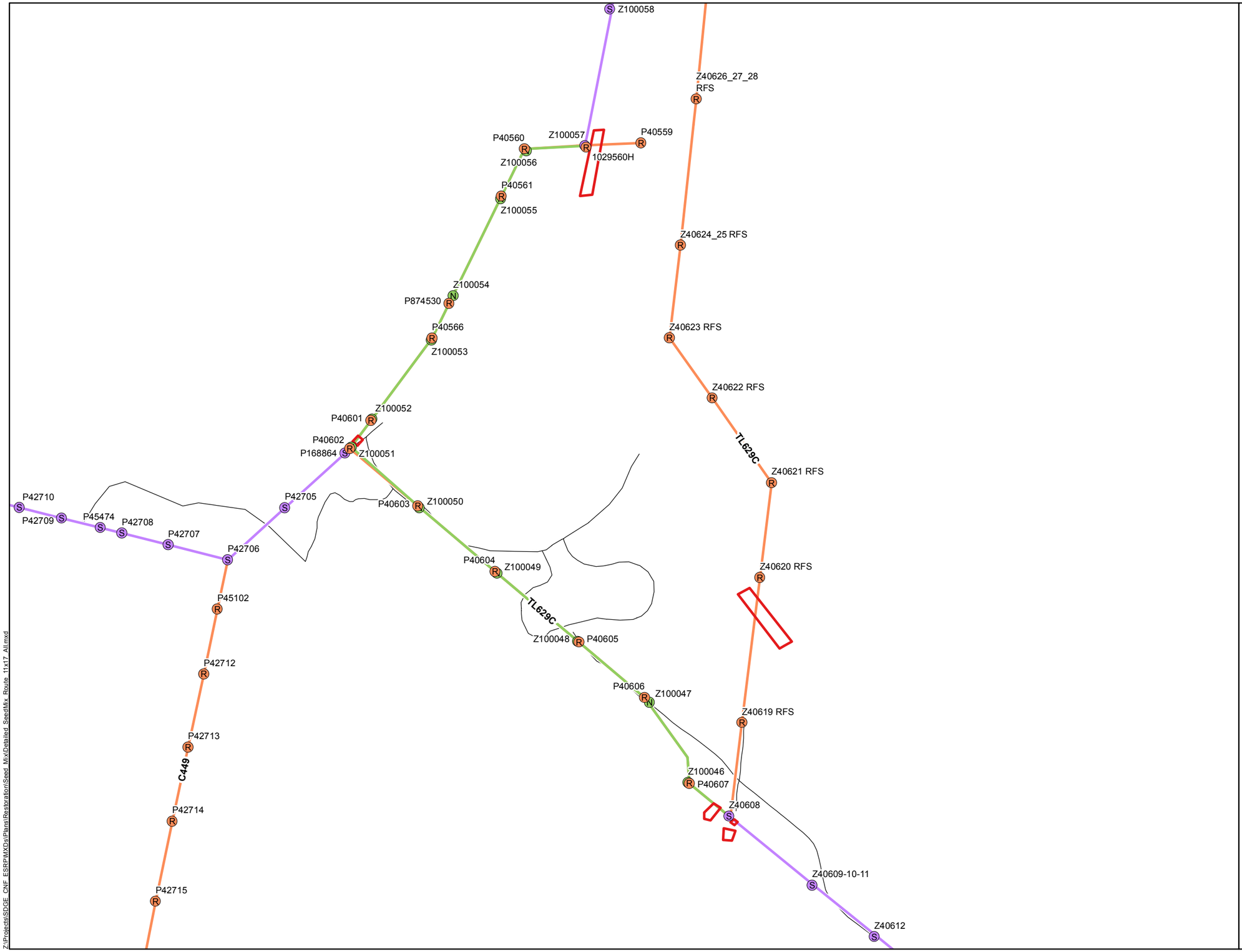
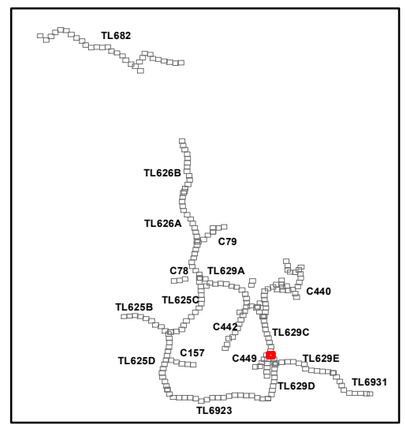
Attachment B-11:
C449
Prescribed Seed Mix
Map 6 of 11

Cleveland National Forest
Power Line Replacement Projects





- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub and Mixed Oak Woodland
- Coastal Sage / Chaparral
- Southern Mixed Chaparral and Scrub Oak Chaparral

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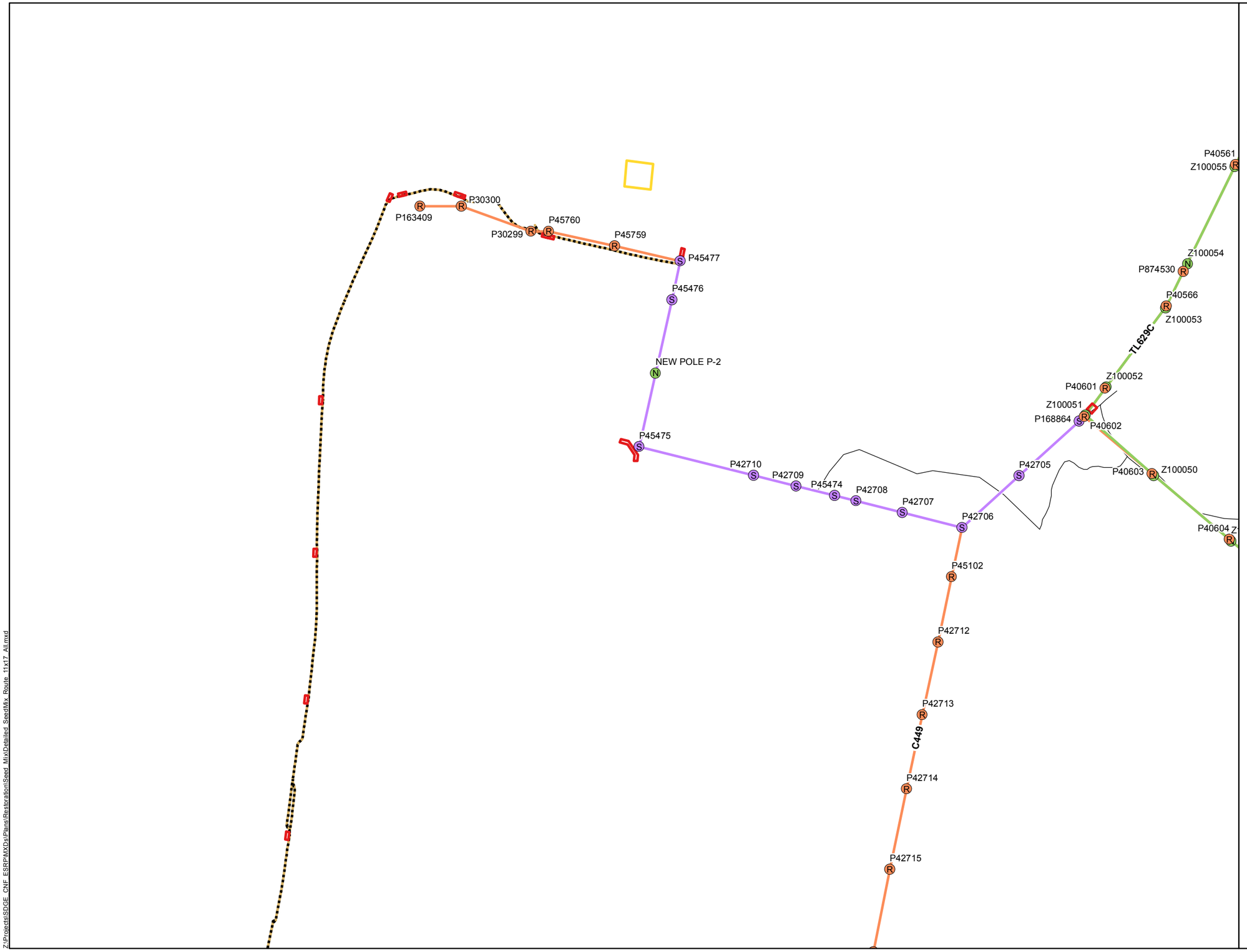


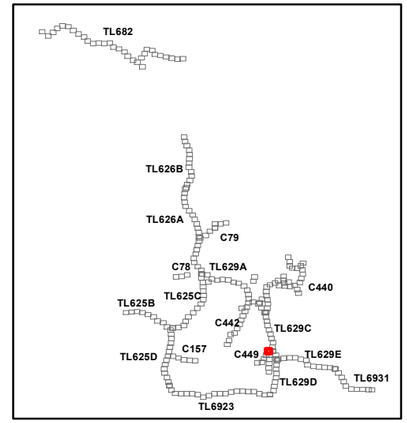
Attachment B-11:
C449
Prescribed Seed Mix
Map 7 of 11

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Undergrounding
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub and Mixed Oak Woodland
- Chamise Chaparral
- Coastal Sage / Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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Attachment B-11:
C449
Prescribed Seed Mix
Map 8 of 11

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub and Mixed Oak Woodland
- Chamise Chaparral
- Coastal Sage / Chaparral
- Meadow / Seep and Southern Willow Scrub
- Oak Savanna, Non-Native Grassland, and Erosion Control

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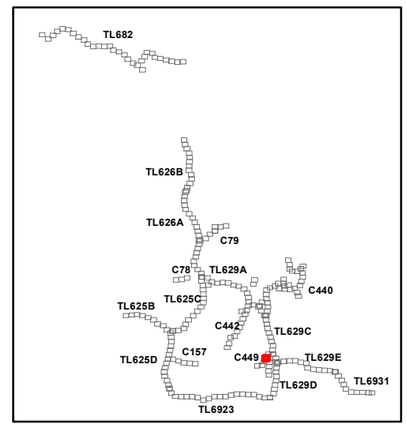

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Attachment B-11:
C449
Prescribed Seed Mix
Map 9 of 11

Cleveland National Forest
Power Line Replacement Projects

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NEW POLE P-18
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NEW POLE P-19
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NEW POLE P-20
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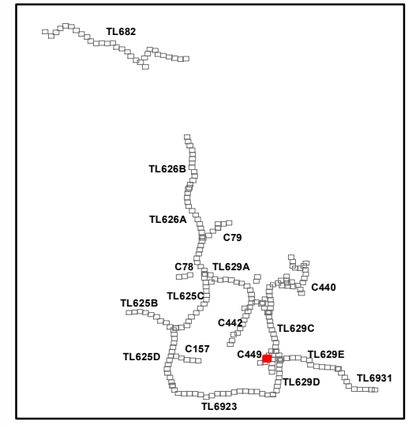
NEW POLE P-21
P42760
NEW POLE P-22
P104078
P42761
NEW POLE P-41

- New Steel Pole
- Removal Pole
- New Steel
- Removal
- Undergrounding
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub and Mixed Oak Woodland
- Chamise Chaparral
- Meadow / Seep and Southern Willow Scrub
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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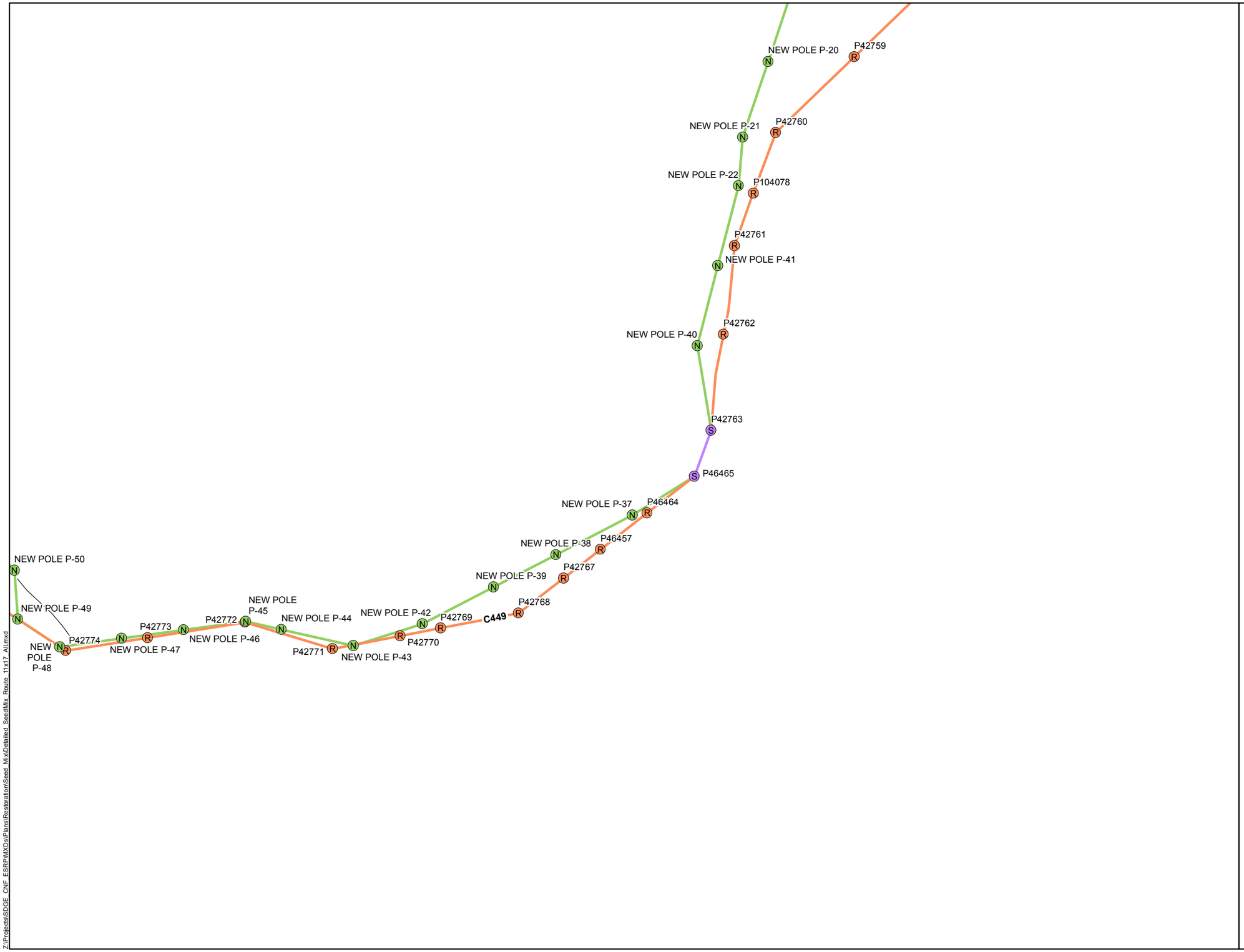


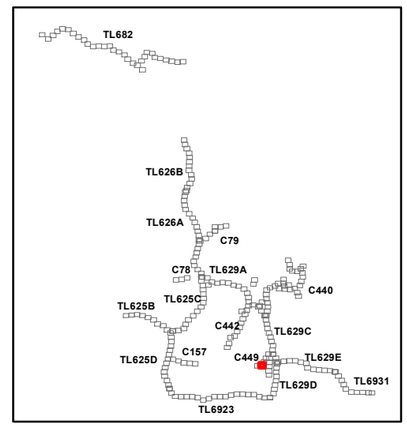
Attachment B-11:
C449
Prescribed Seed Mix
Map 10 of 11

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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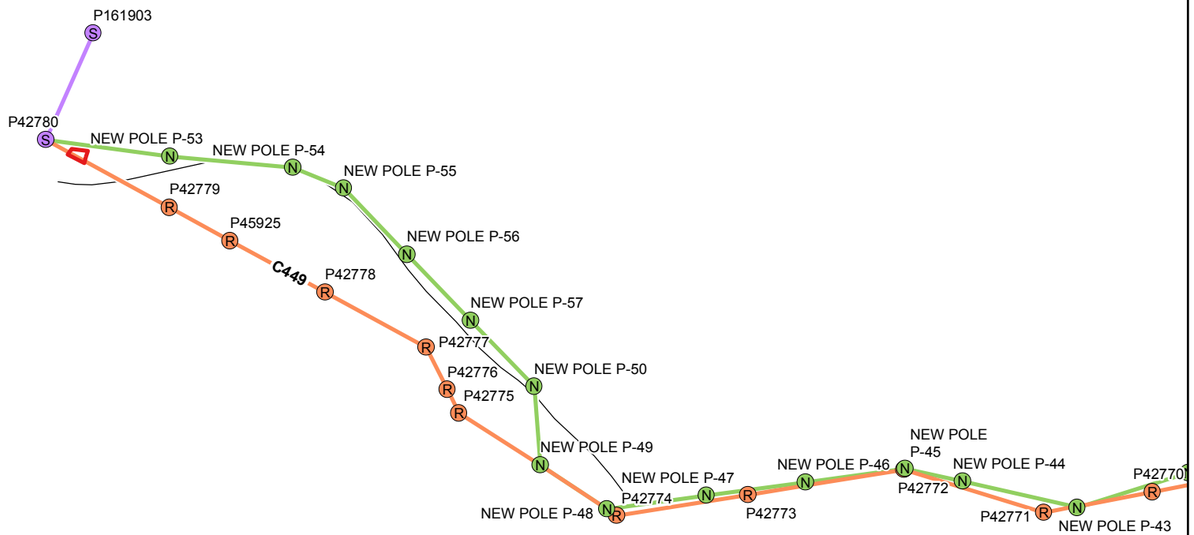


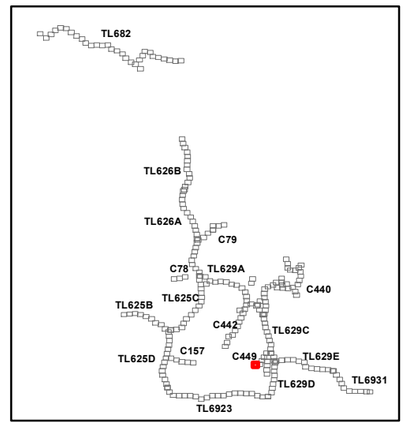
Attachment B-11:
C449
Prescribed Seed Mix
Map 11 of 11

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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ATTACHMENT B-12: TL625D PRESCRIBED SEED MIX APPLICATION MAPPING

Attachment B-12:
TL625D
Prescribed Seed Mix
Map 1 of 14

Cleveland National Forest
Power Line Replacement Projects

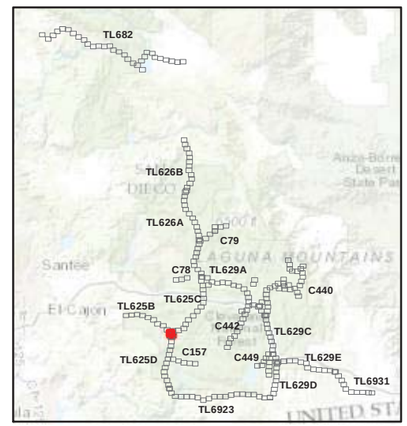


Seed Mix Types

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland



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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 2 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

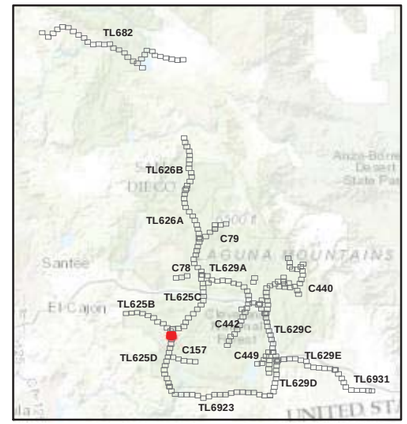
Stringing Site

Access Road

Seed Mix Types

Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland





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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 3 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Access Road

Seed Mix Types

Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland



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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 4 of 14

Cleveland National Forest
Power Line Replacement Projects

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Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

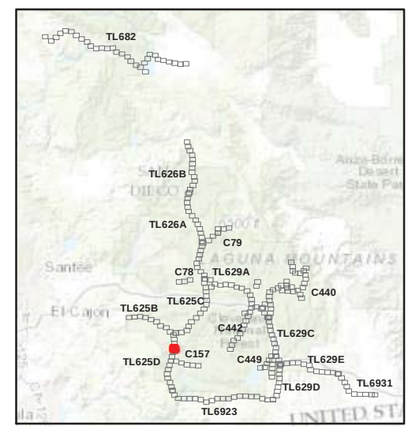
Access Road

Seed Mix Types

Chamise Chaparral

Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland

Z571426
Z778787
P874489
Z571427
Z206470
Z571428
Z571429
Z571430
Z571431
Z571432
TL625D
Carveacre Rd
Old Oak Rd
Barrett View Rd
Sky Ridge Rd
Stark Rock Rd
Ski Ridge RDY



SDGE A Sempra Energy utility

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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 5 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

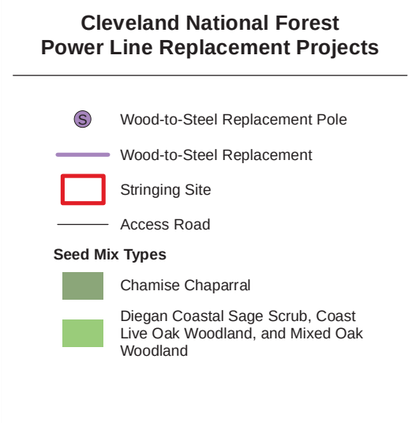
Stringing Site

Access Road

Seed Mix Types

Chamise Chaparral

Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland



SDGE a Sempra Energy utility

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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 6 of 14

Cleveland National Forest
Power Line Replacement Projects

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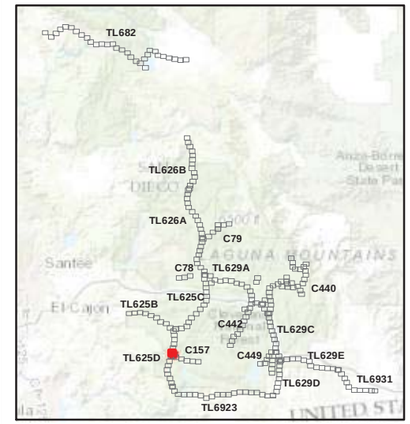
Z571437
Z571438
Z571439
Z571440
TL625D
Japutul Lyons Valley Rd
Lyons Valley Rd

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Chamise Chaparral
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland



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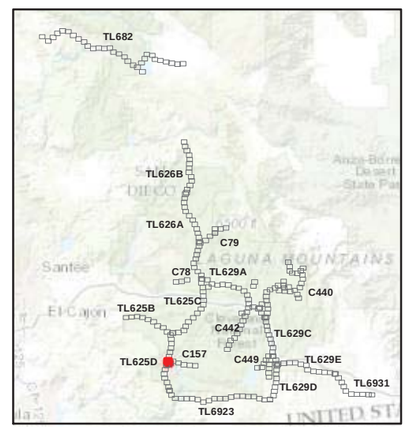
Attachment B-12:
TL625D
Prescribed Seed Mix
Map 7 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Coastal Sage / Chaparral
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland



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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 8 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

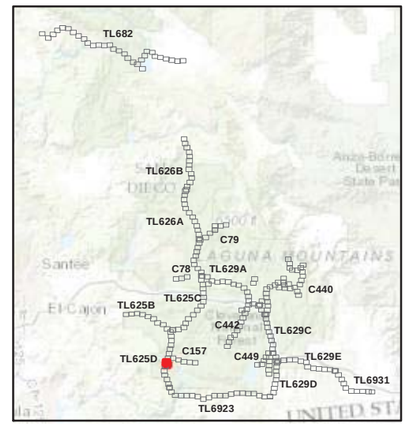
Access Road

Seed Mix Types

Chamise Chaparral

Coastal Sage / Chaparral

Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland



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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 9 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Fly Yard

Staging

Stringing Site

Access Road

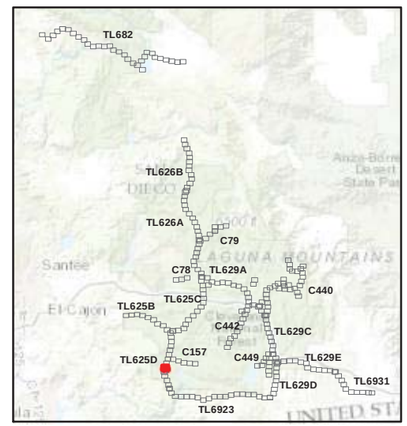
Seed Mix Types

Chamise Chaparral

Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland

Oak Savanna, Non-Native Grassland, and Erosion Control

Southern Mixed Chaparral and Scrub Oak Chaparral



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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 10 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

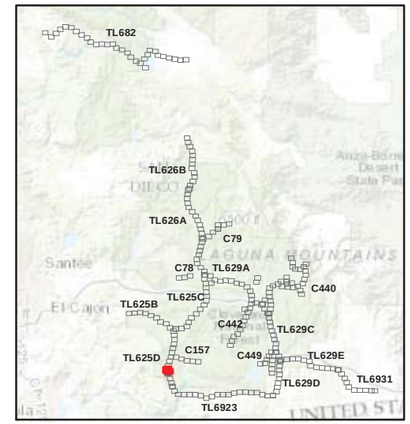
Access Road

Seed Mix Types

Chamise Chaparral

Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland

Southern Mixed Chaparral and Scrub Oak Chaparral



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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 11 of 14

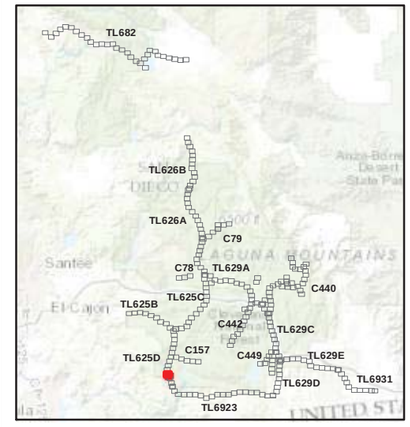
Cleveland National Forest
Power Line Replacement Projects

Z571459
Z571460
Z571461
Z571462
Z571463
TL625D
Barber Mtn
Barber Mtn
Barber Mtn
Barber Mtn

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 12 of 14

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Removal Pole

Wood-to-Steel Replacement

Staging

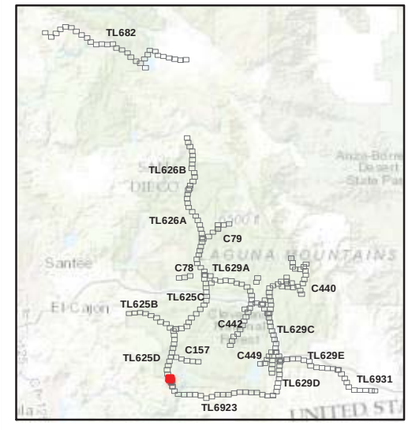
Stringing Site

Access Road

Seed Mix Types

Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland

Southern Mixed Chaparral and Scrub Oak Chaparral



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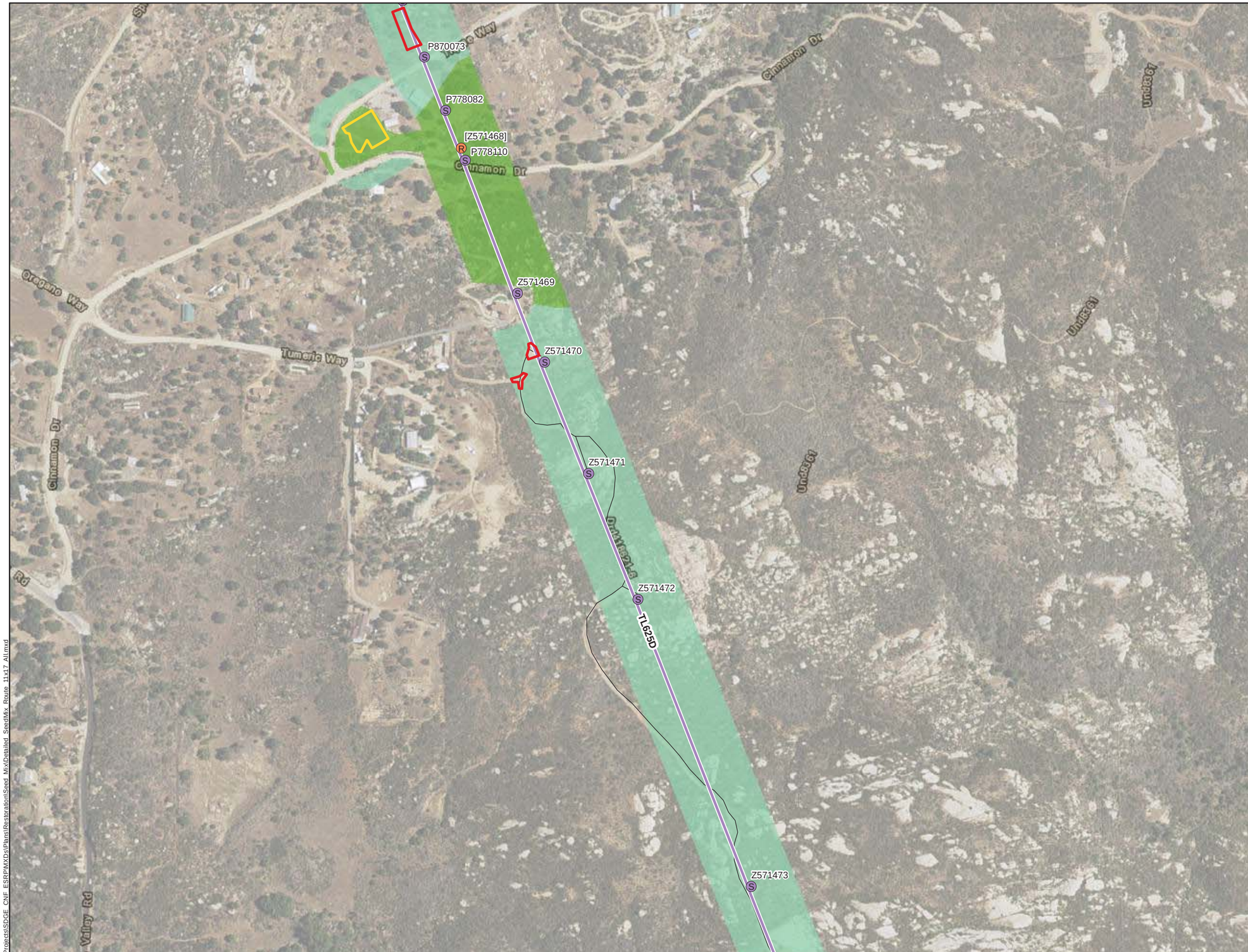


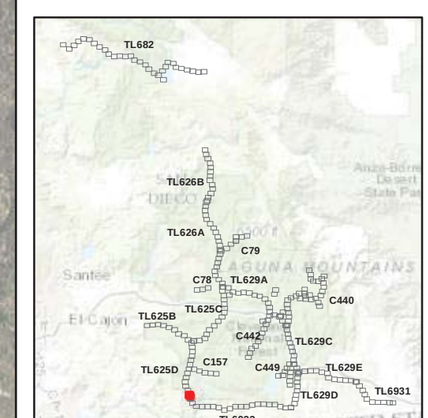
Attachment B-12:
TL625D
Prescribed Seed Mix
Map 13 of 14

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



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Attachment B-12:
TL625D
Prescribed Seed Mix
Map 14 of 14

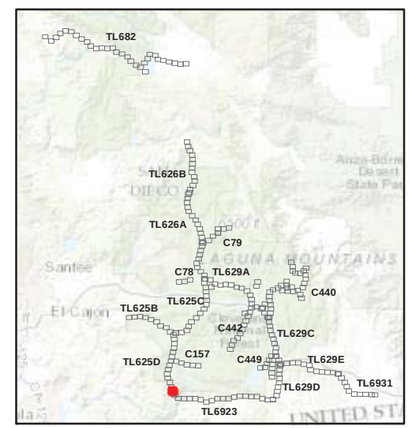
Cleveland National Forest
Power Line Replacement Projects

TL625D
Z571473
Z571474
Z105008
Z105009
Z105010
Z105011
Z105012
Z571476
TL6923
Z571477
Z571478
Manzanita Way
Manzanita Way

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



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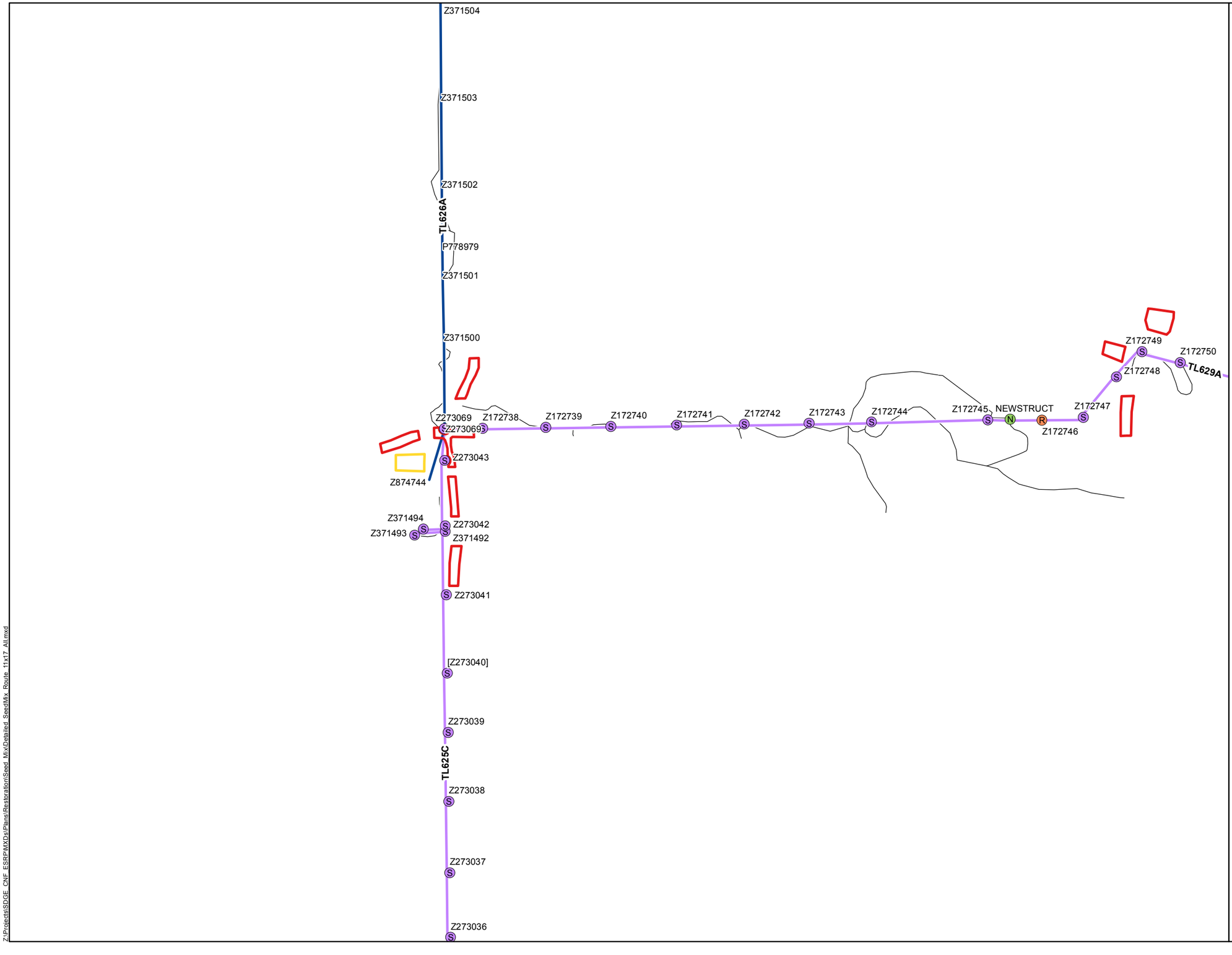
ATTACHMENT B-13: TL629A PRESCRIBED SEED MIX APPLICATION MAPPING

Attachment B-13:
TL629A
Prescribed Seed Mix
Map 1 of 16

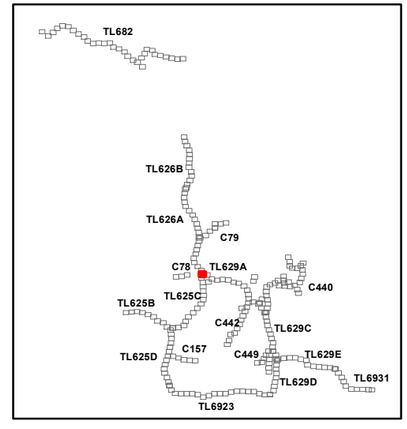
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel 12 kV
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility

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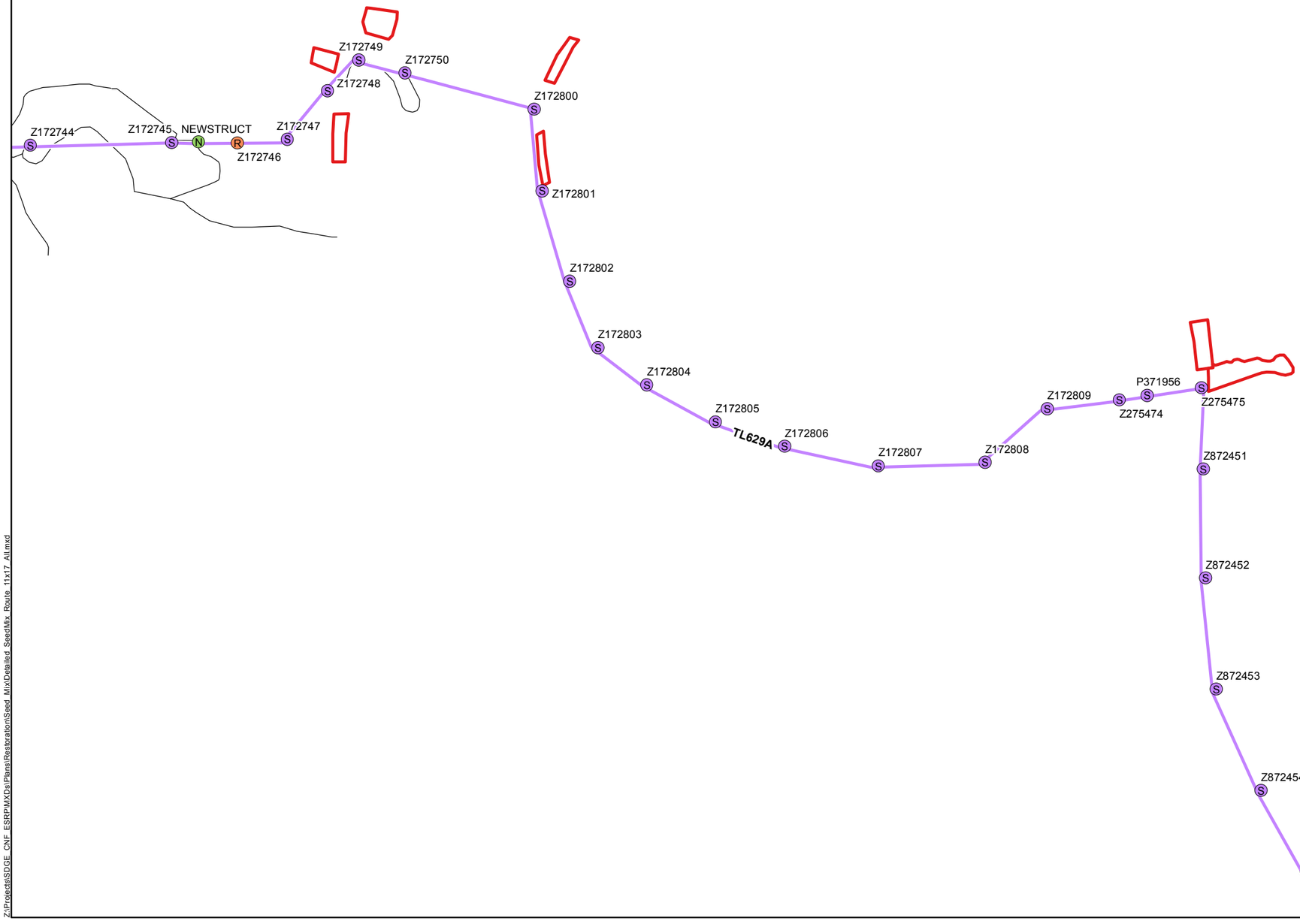
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 2 of 16

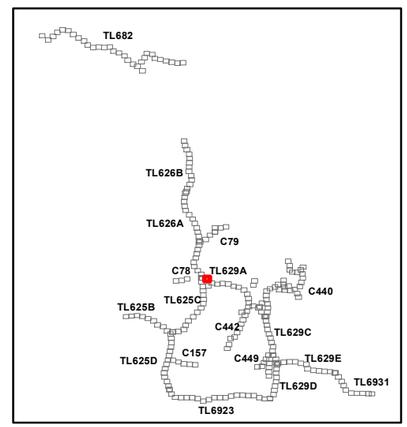
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral
- Southern Riparian Forest / Riparian Scrub



SDGE a Sempra Energy utility

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Z373149
Z373148
Z373147
Z373146
Z173038
Z173039
Z173040
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Z173042
Z173043
Z173044
Z173045
Z173046
P276357
Z173047
Z173048
Z173049
Z173050
Z178329
Z173051

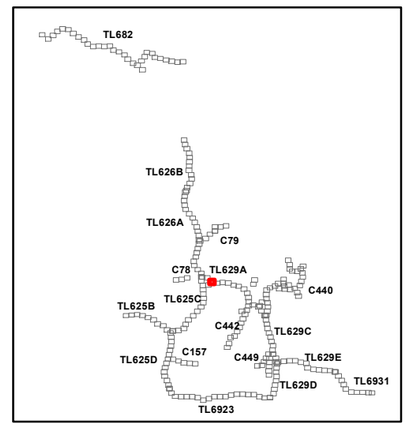
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 3 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral
- Southern Riparian Forest / Riparian Scrub



SDGE A Sempra Energy utility
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Attachment B-13:
TL629A
Prescribed Seed Mix
Map 4 of 16

Cleveland National Forest
Power Line Replacement Projects

Z173045
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P276357
Z173047
TL629A
Z173048
Z173049
Z173050
Z178329
Z173051
Z173052
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Z173054
Z173055
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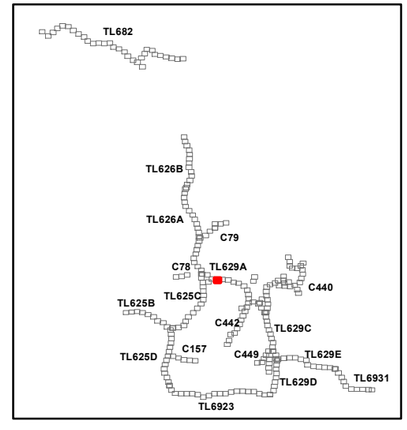
Z173057
Z173058
Z173059
P208905
Z173060
Z173061
Z173062
Z173063
Z173065
Z173066

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Riparian Forest / Riparian Scrub



SDGE A Sempra Energy utility
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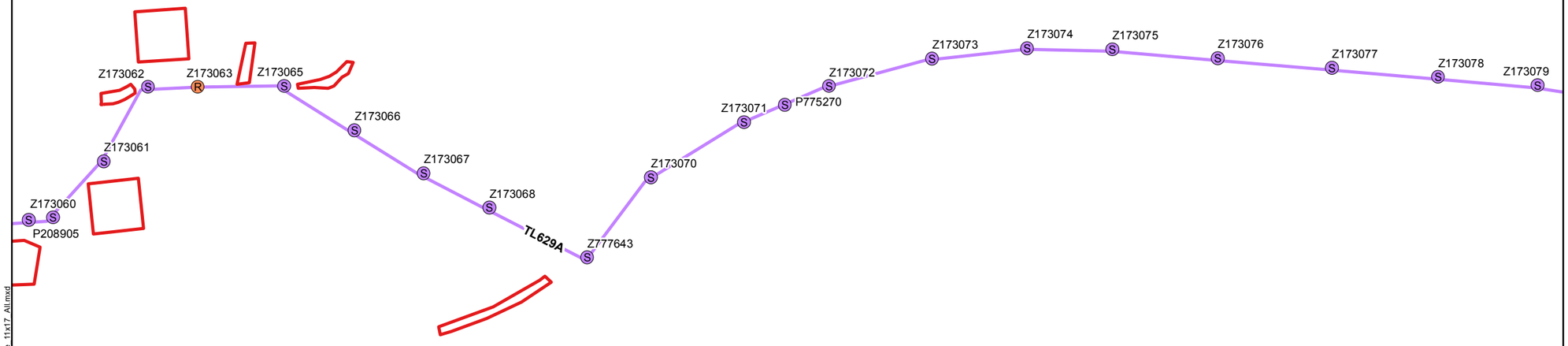
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 5 of 16

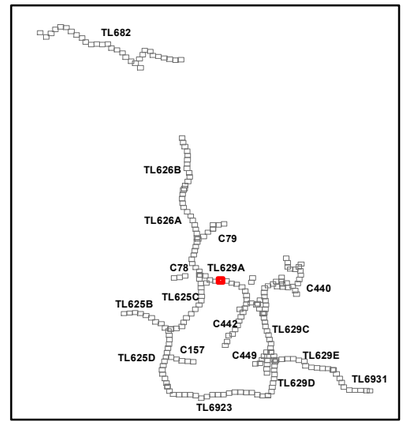
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral
- Southern Riparian Forest / Riparian Scrub



SDGE A Sempra Energy utility

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Attachment B-13:
TL629A
Prescribed Seed Mix
Map 6 of 16

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

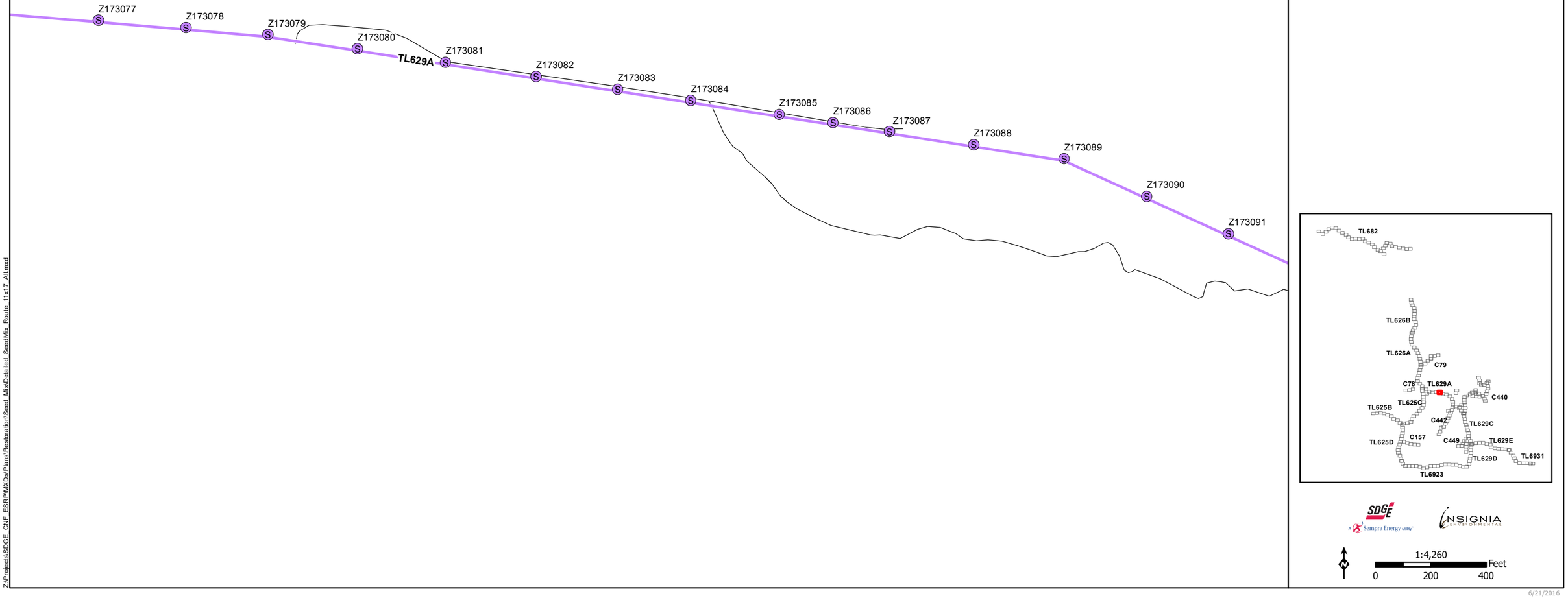
Wood-to-Steel Replacement

Access Road

Seed Mix Types

Southern Mixed Chaparral and Scrub Oak Chaparral

Southern Riparian Forest / Riparian Scrub



SDGE A Sempra Energy utility

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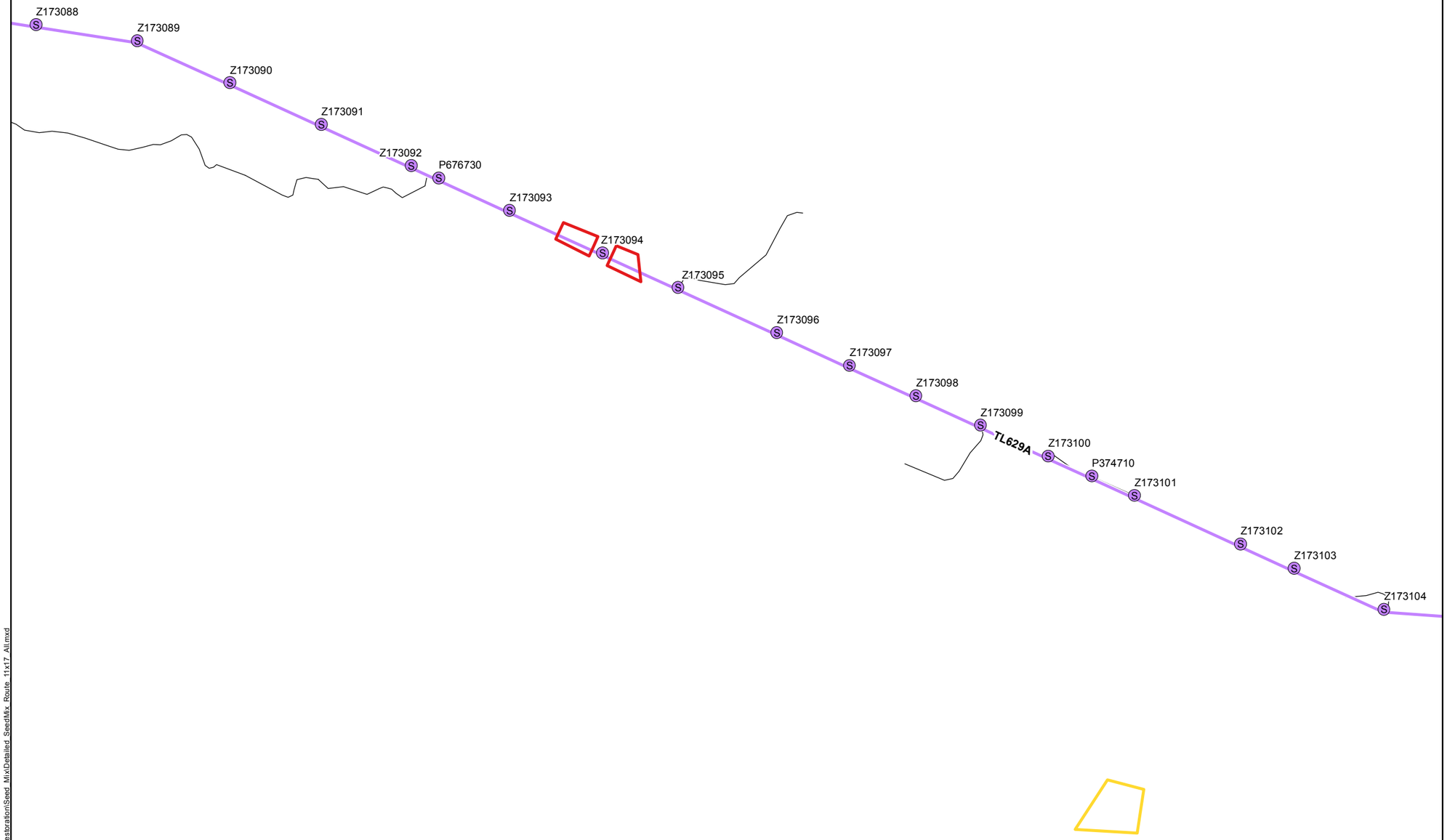


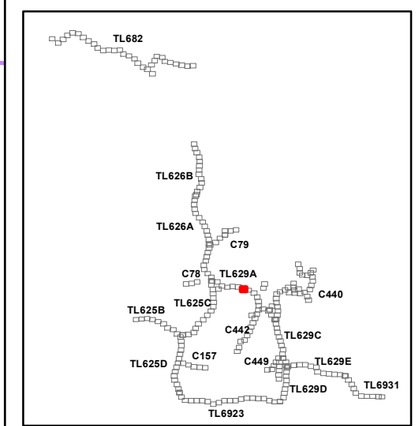
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 7 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment B-13:
TL629A
Prescribed Seed Mix
Map 8 of 16

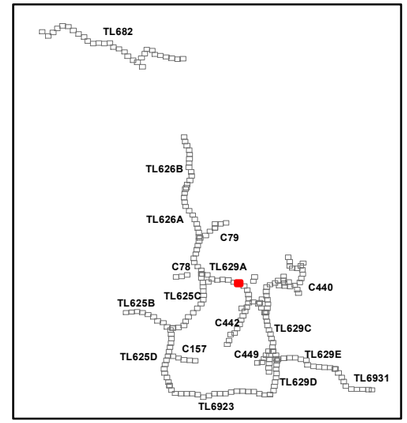
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Seed Mix Types

- Big Sage Scrub
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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Z173117
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Z117118
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Z173121
Z173122
Z173123
Z173124
Z173125
173126
Z173127

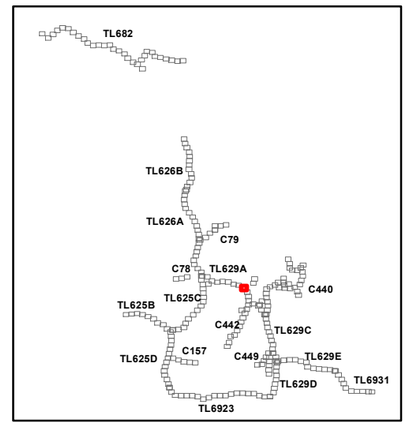
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 9 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Big Sage Scrub
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland



SDGE A Sempra Energy utility
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Z173129
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Z812701
TL629A
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Z173134
Z173135
Z173136
Z173137

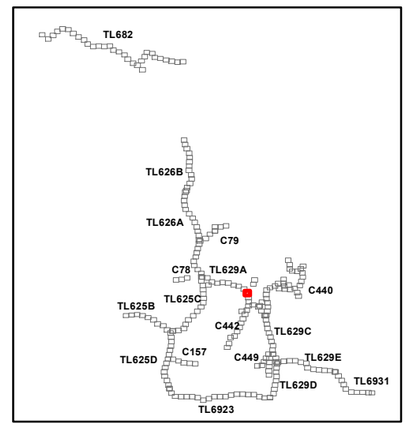
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 10 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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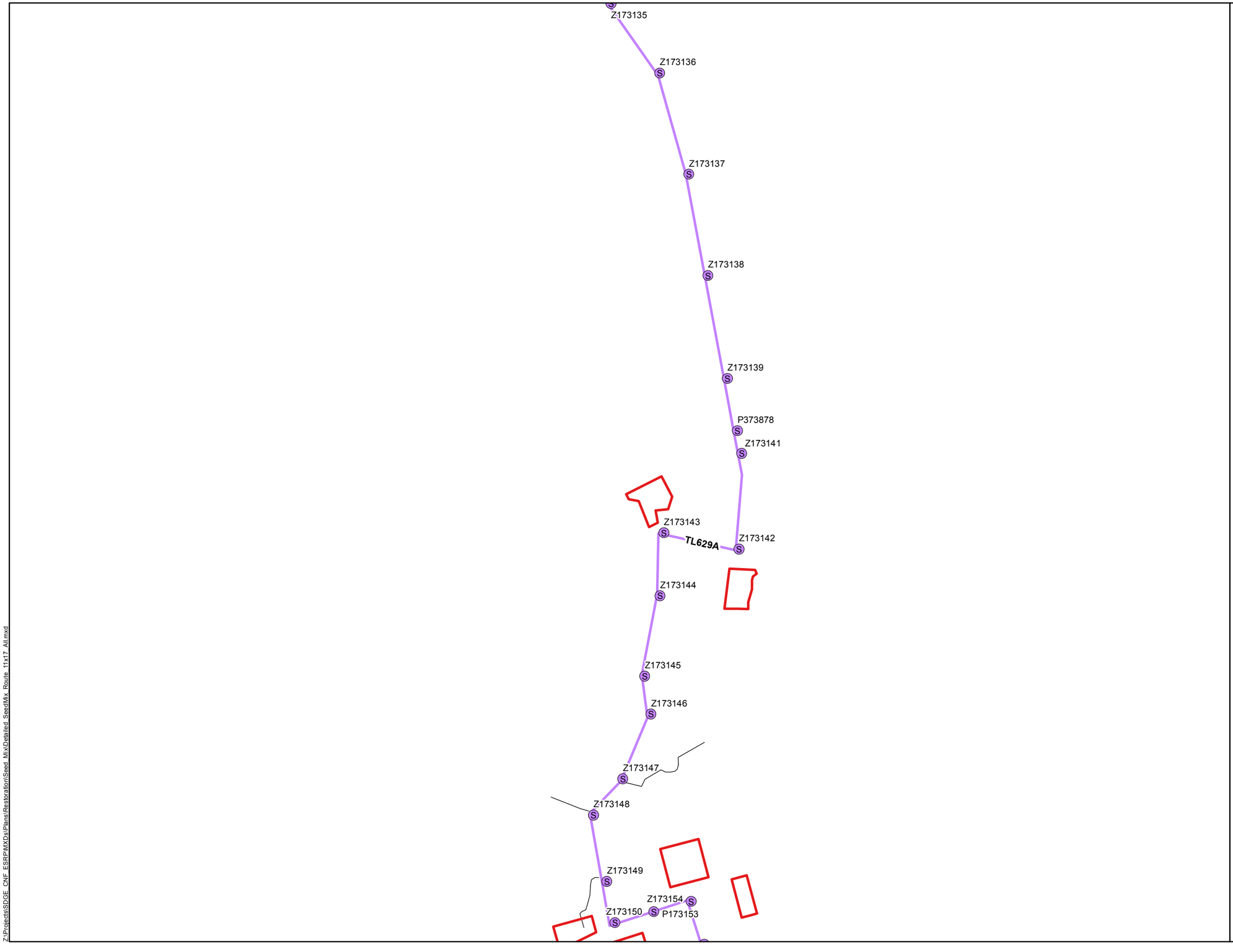


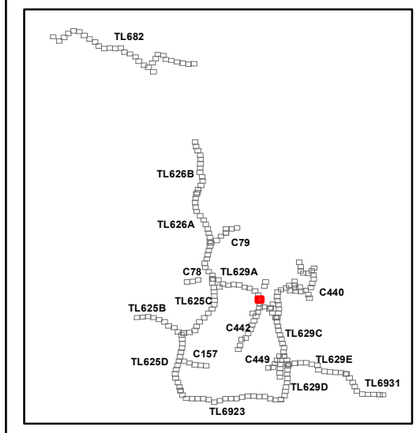
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 11 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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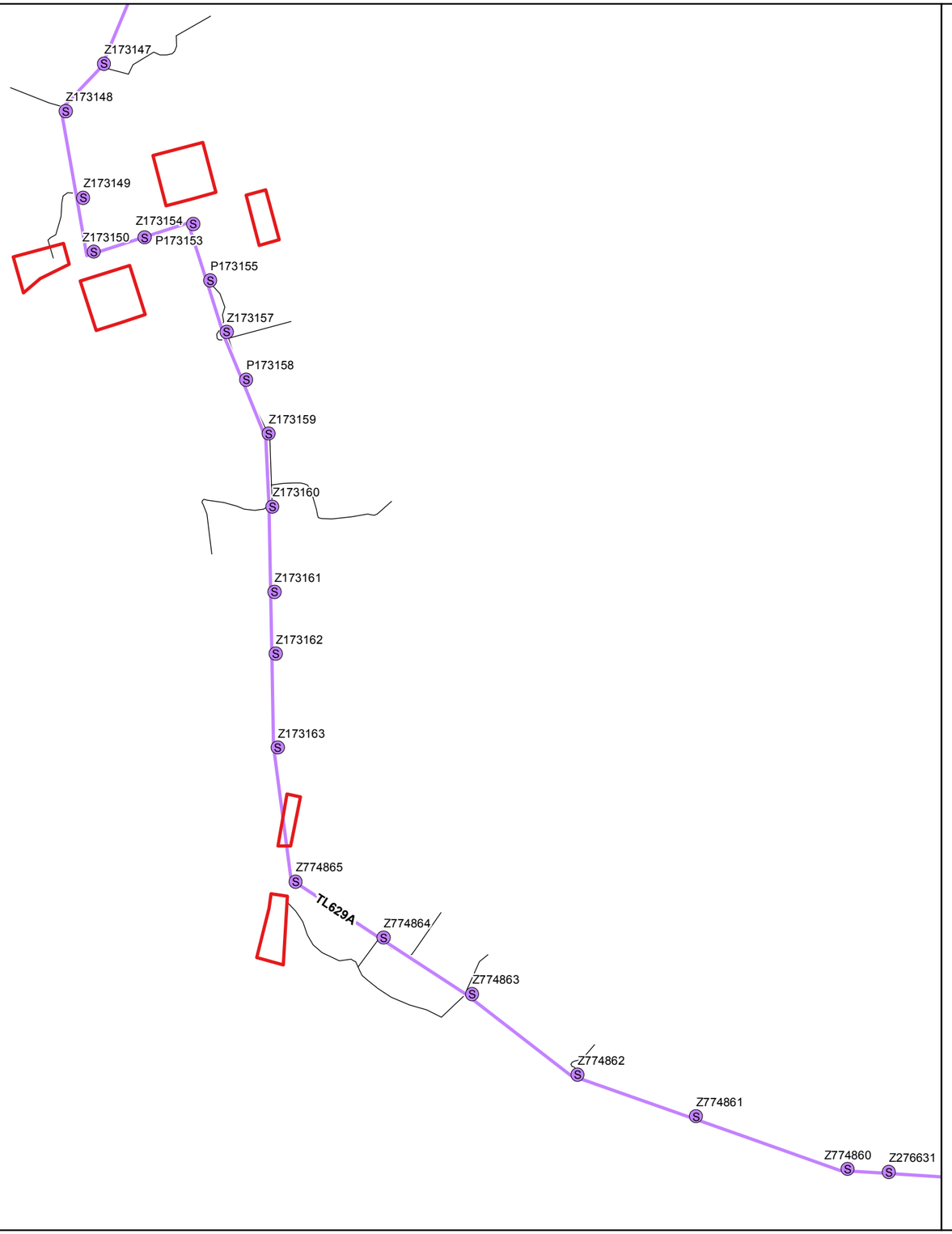


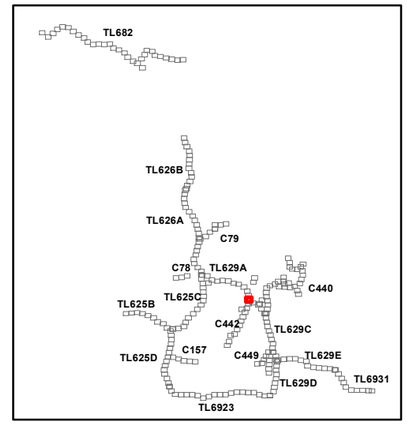
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 12 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub
- Redshank Chaparral
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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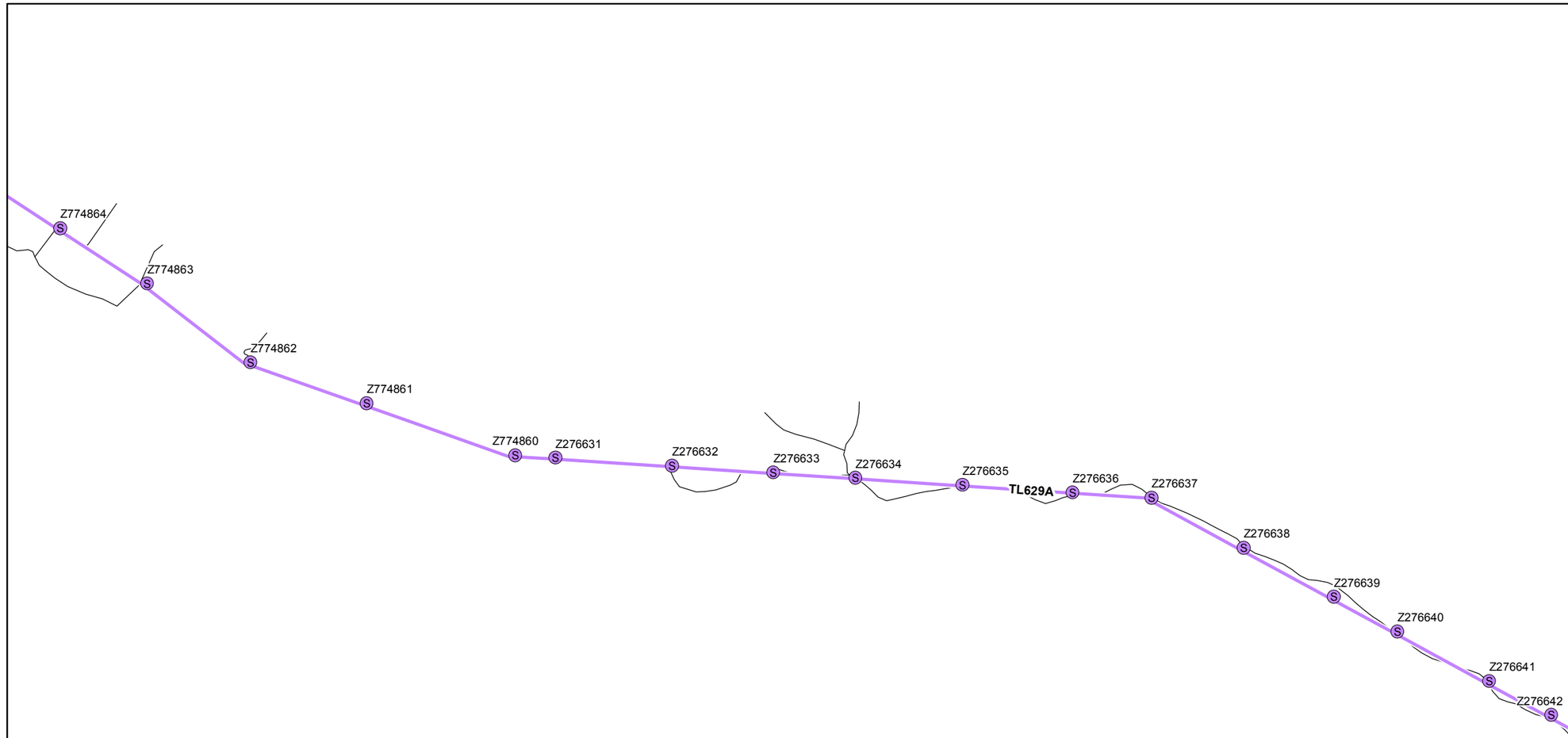
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 13 of 16

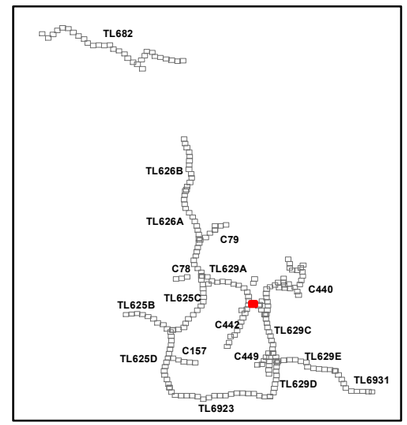
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Big Sage Scrub
- Chamise Chaparral
- Redshank Chaparral



SDGE A Sempra Energy utility

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Z276641
Z276642
Z276643
Z276644
Z276645
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Z276647
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Z276649
P40248
C440
Z40249
Z40250
Z40251
Z40252
Z40253

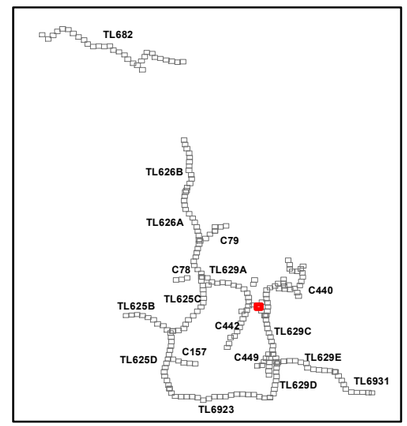
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 14 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement
- Undergrounding
- Wood-to-Steel
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Redshank



SDGE a Sempra Energy utility
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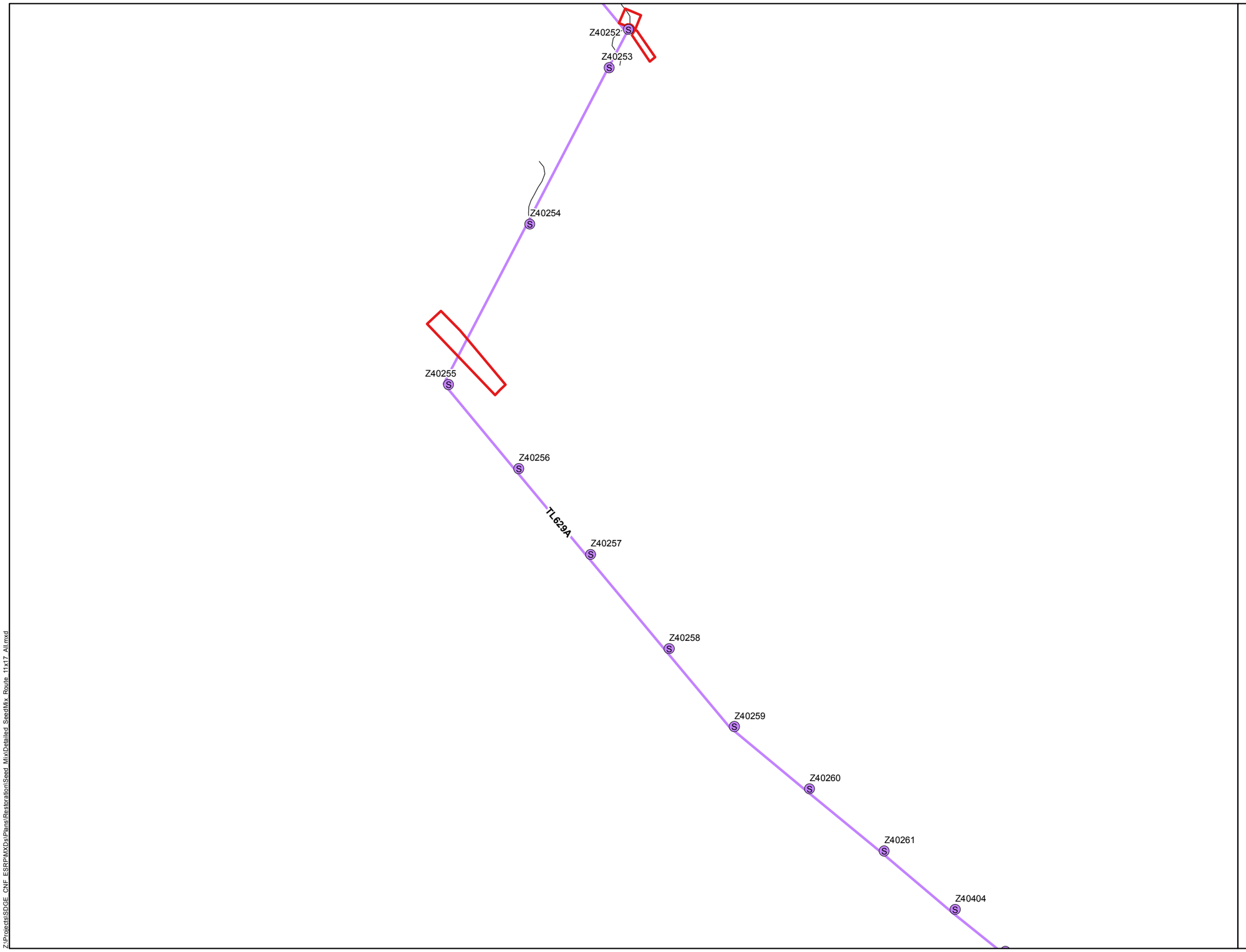


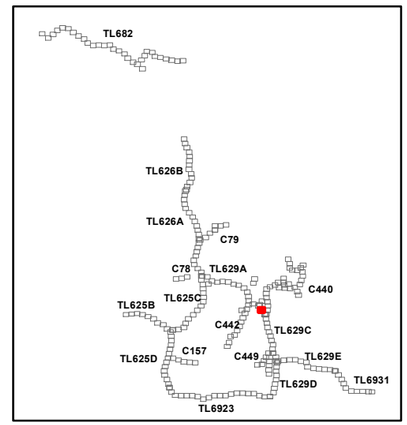
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 15 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Redshank Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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C440
P40002
P40001

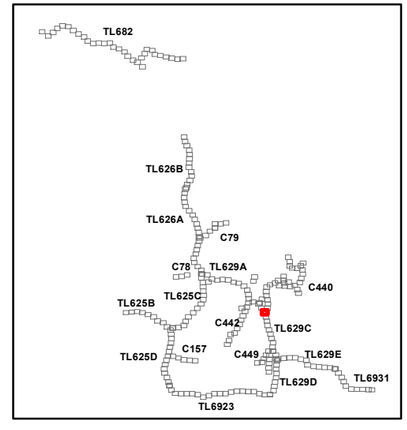
Attachment B-13:
TL629A
Prescribed Seed Mix
Map 16 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Redshank Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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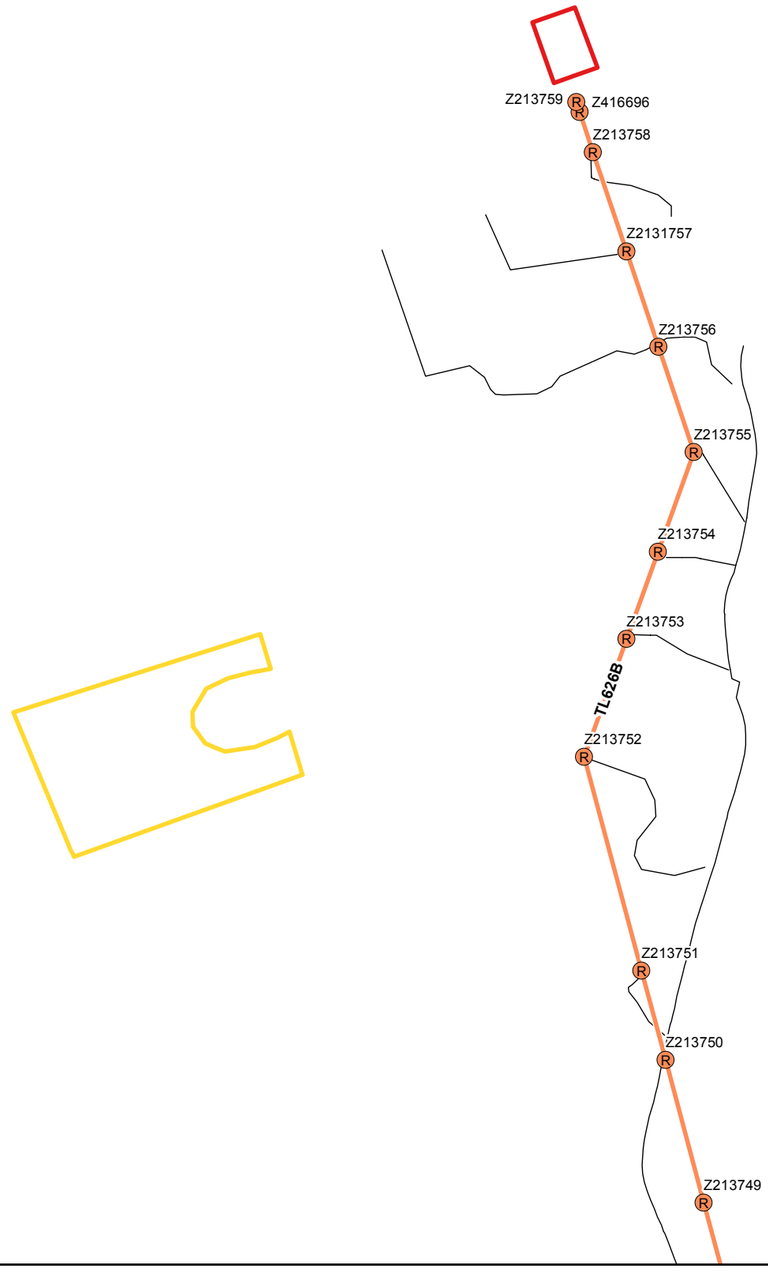
6/21/2016

ATTACHMENT B-14: TL626B PRESCRIBED SEED MIX APPLICATION MAPPING



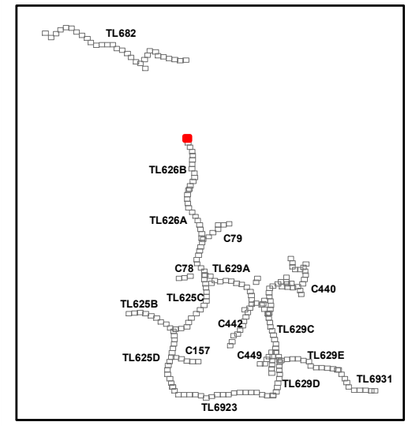
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 1 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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6/17/2016

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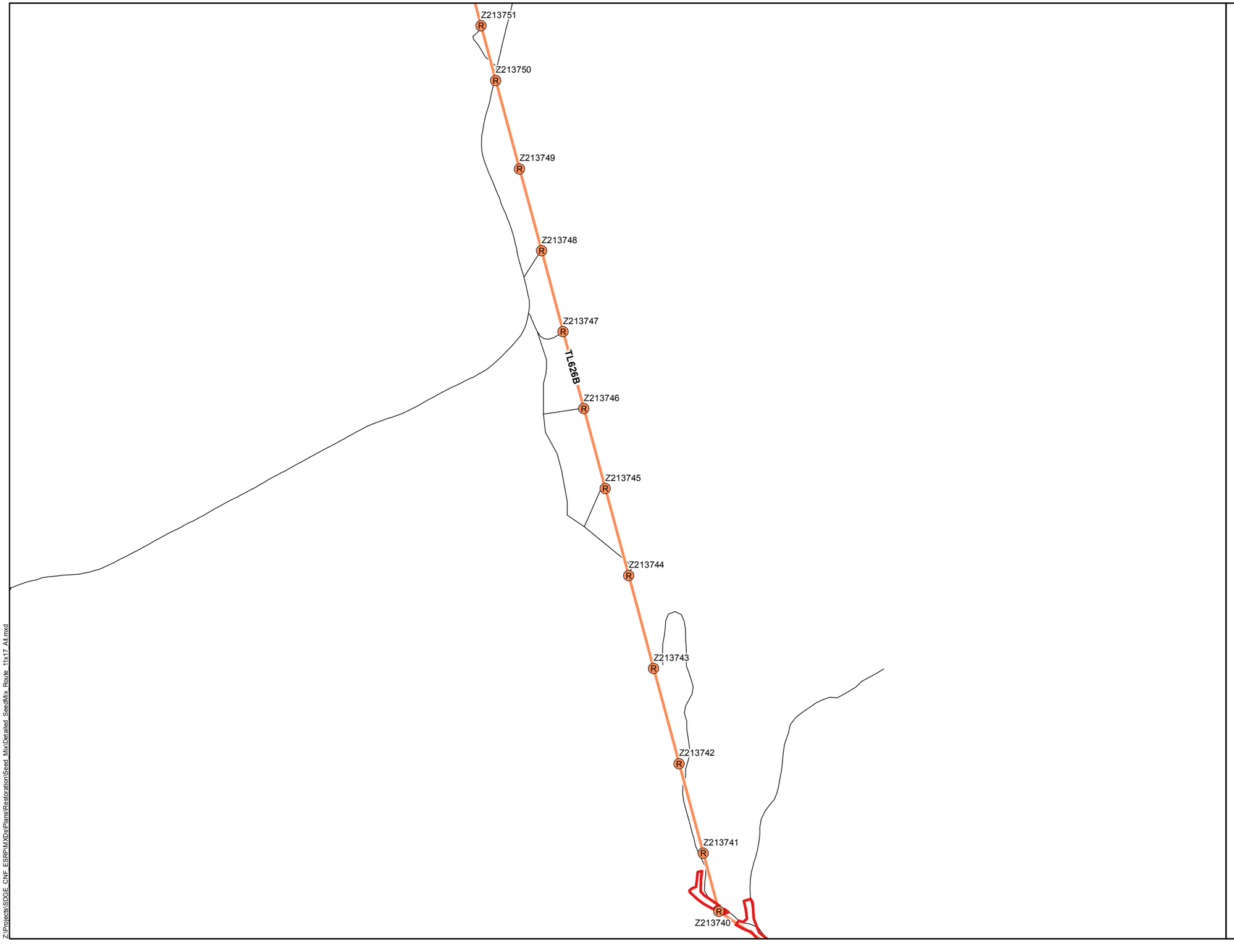


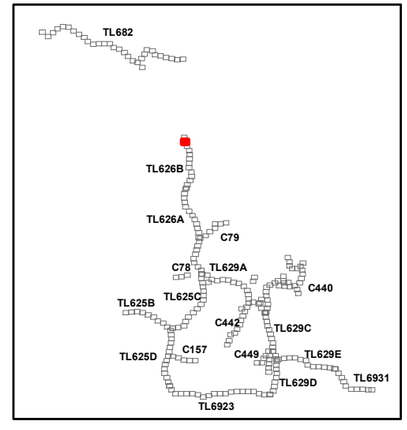
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 2 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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6/17/2016

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Z213738
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Z213736
Z213735
TL626B
Z213734
Z213733
Z213732

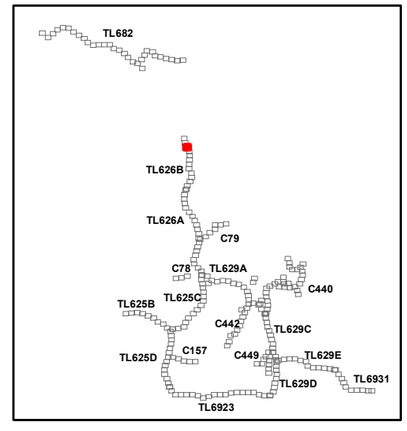
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 3 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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Z213730
TL626B
Z213729
Z213728
Z213727
Z213726
Z213725

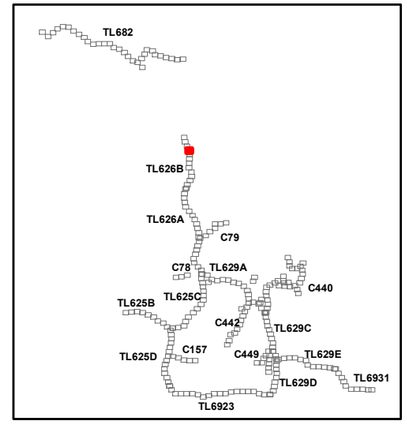
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 4 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control



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6/17/2016

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Z213724

Z213723

TL626B

Z213722

Z213721

Z213720

Z213719

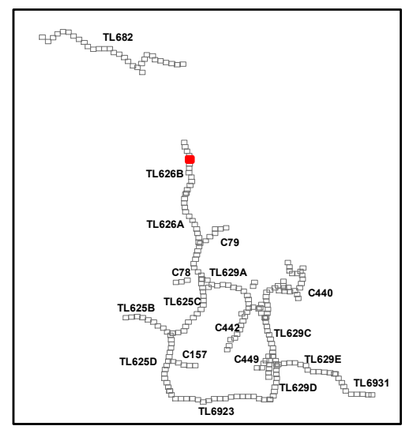
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 5 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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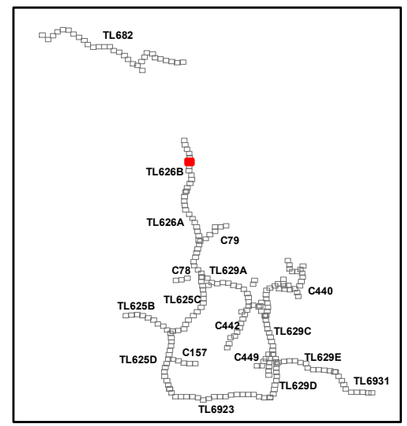
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 6 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control



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Z213707
Z213706
TL626B
Z213705
Z213704
Z213703
Z213702

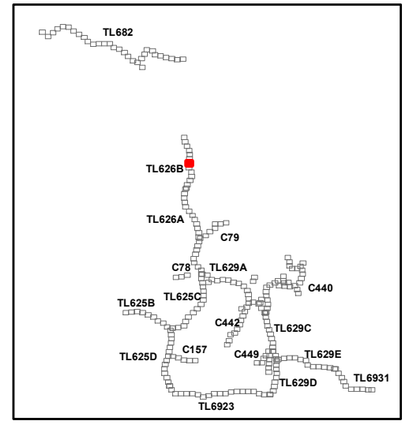
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 7 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control



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6/17/2016

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Z213697
TL626B
Z213696
Z213695
Z213694
Z213693
Z213692
Z213691

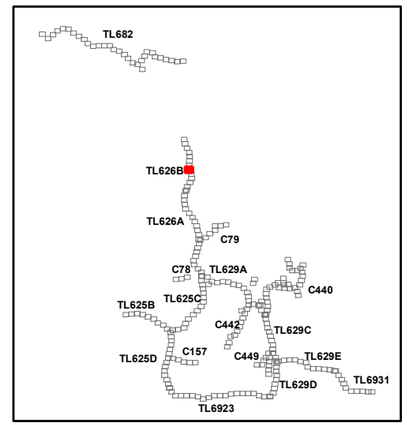
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 8 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control



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Z213688
TL626B
Z213687
Z213686
Z213685
Z213684
Z213683

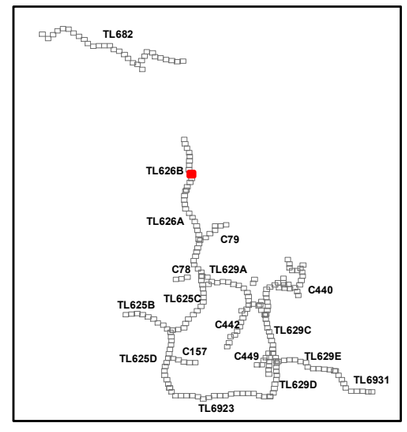
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 9 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Native Grassland and Meadow / Seep
- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control



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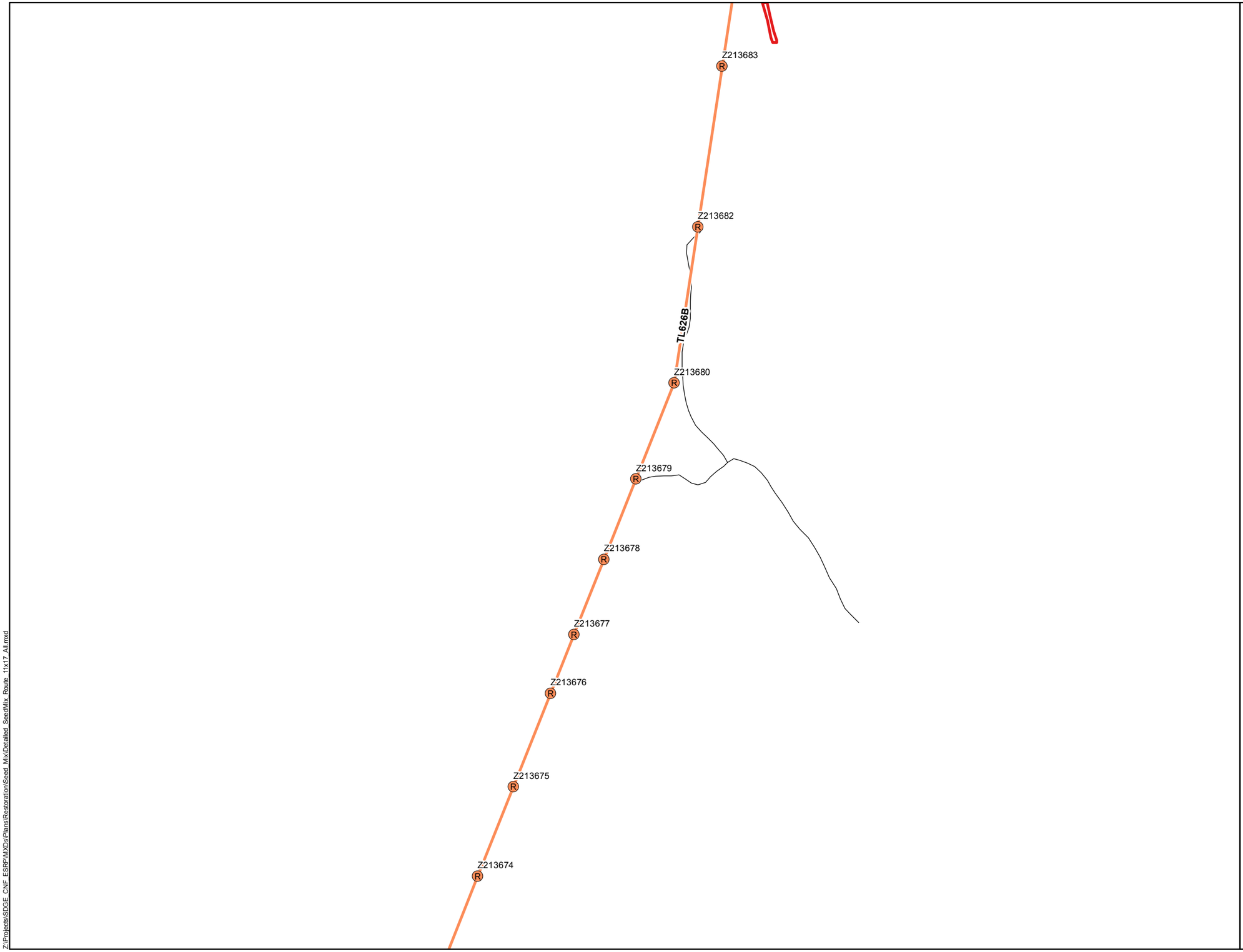


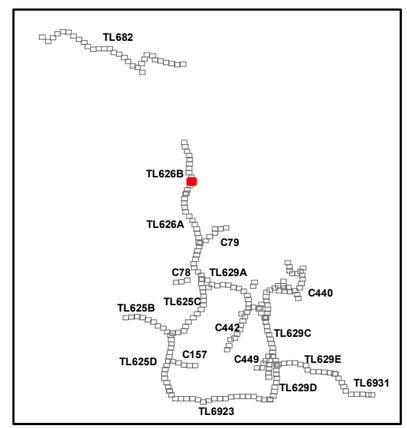
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 10 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Stringing Site
- Access Road

Seed Mix Types

- Coastal Sage / Chaparral
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Native Grassland and Meadow / Seep
- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Z213670
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Z213668
Z213667
Z213666
TL626B

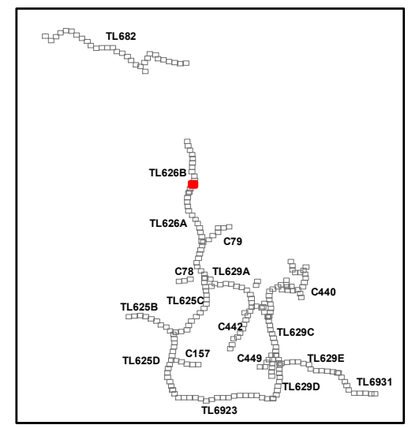
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 11 of 13

Cleveland National Forest
Power Line Replacement Projects

- Removal Pole
- Removal
- Access Road

Seed Mix Types

- Coastal Sage / Chaparral
- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland
- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control



SDGE a Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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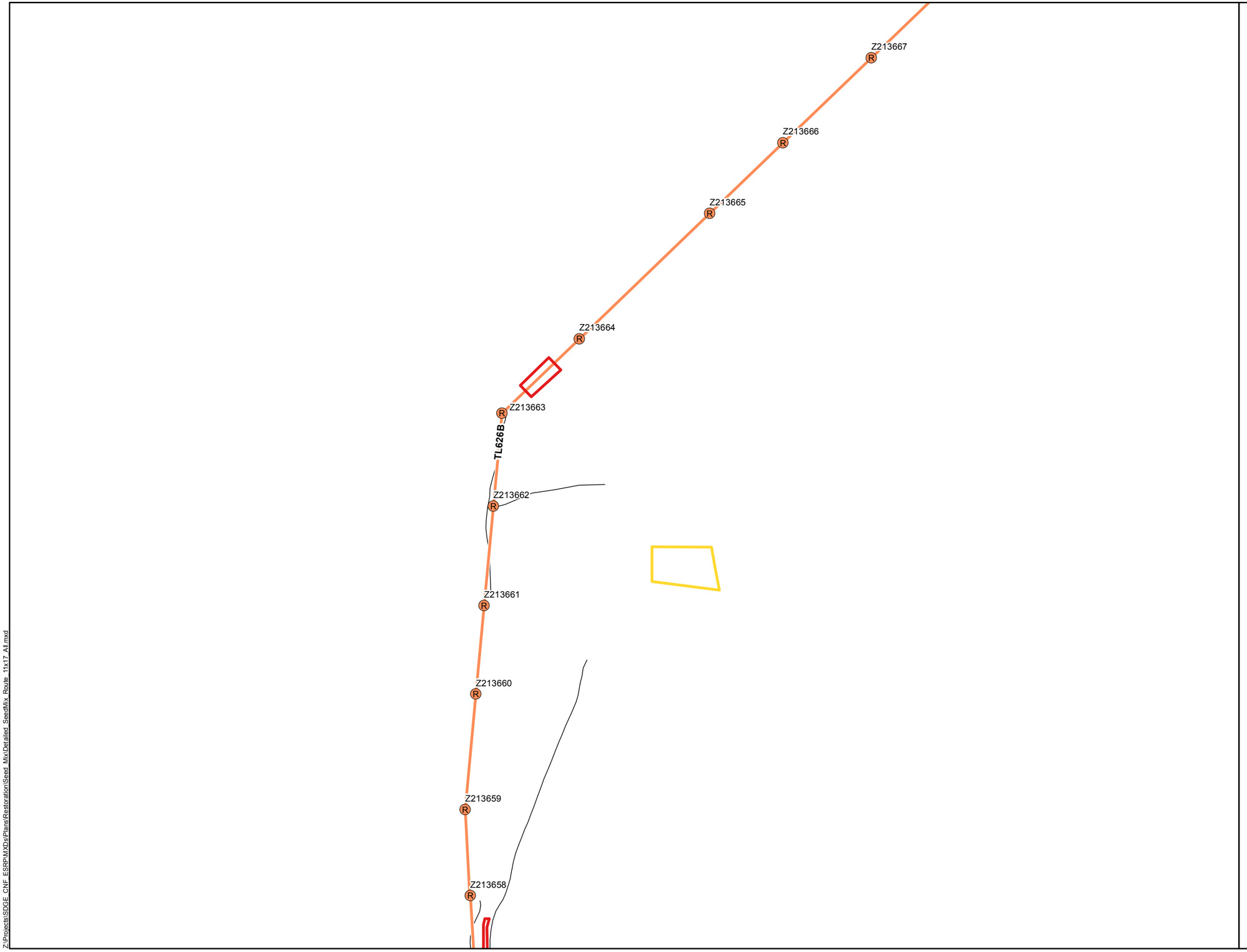
0 200 400 Feet

6/17/2016

Attachment B-14:
TL626B
Prescribed Seed Mix
Map 12 of 13

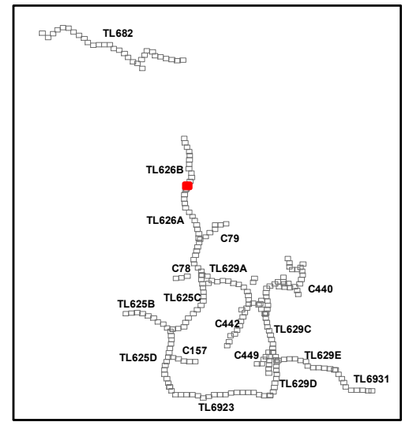
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Coastal Sage / Chaparral
- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control



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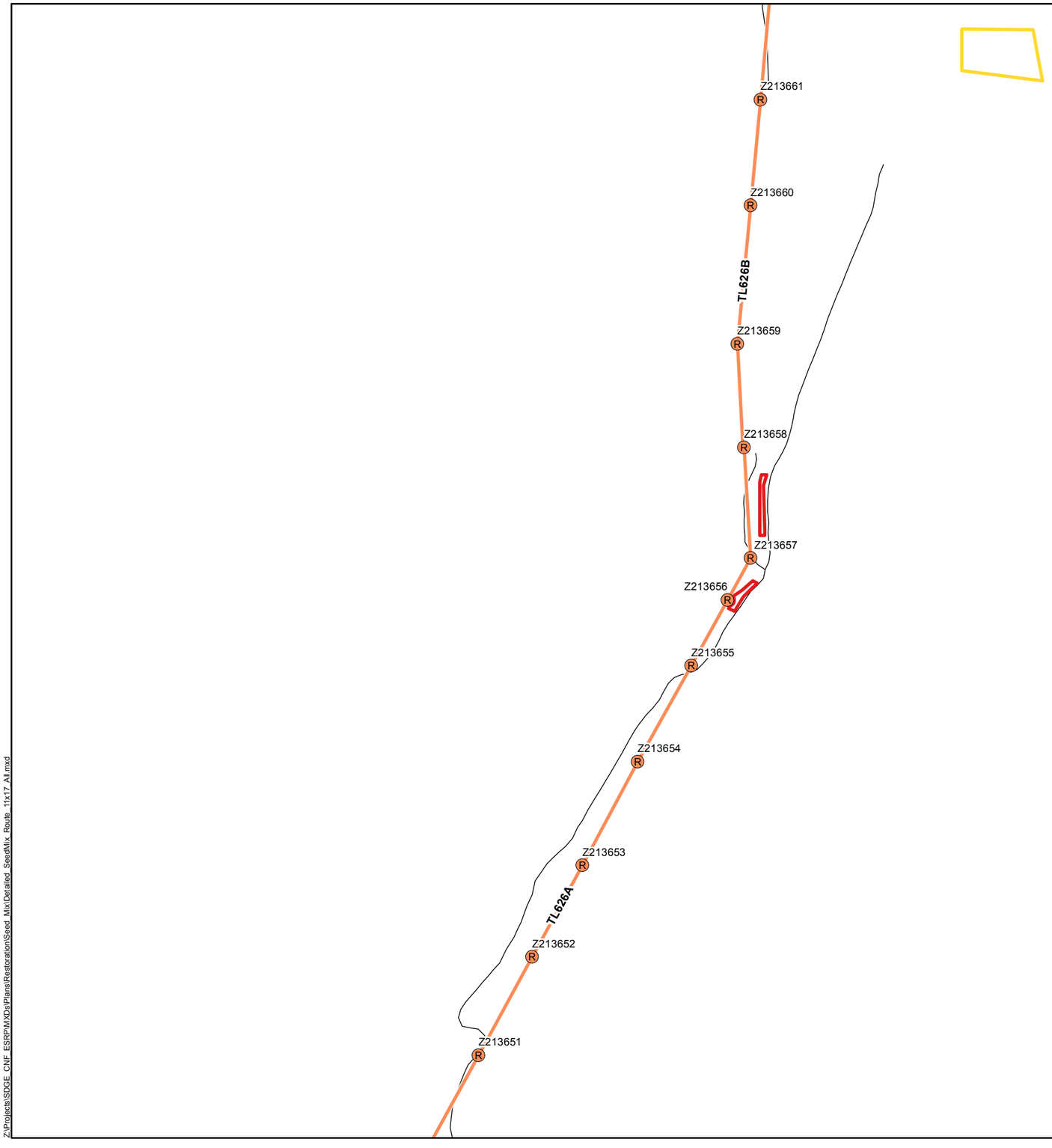
Attachment B-14:
TL626B
Prescribed Seed Mix
Map 13 of 13

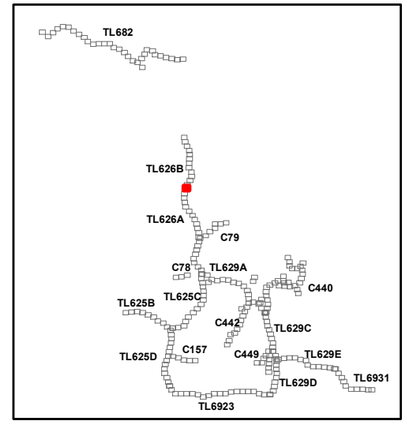
Cleveland National Forest
Power Line Replacement Projects



- Removal Pole
- Removal
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control



SDGE A Sempra Energy utility

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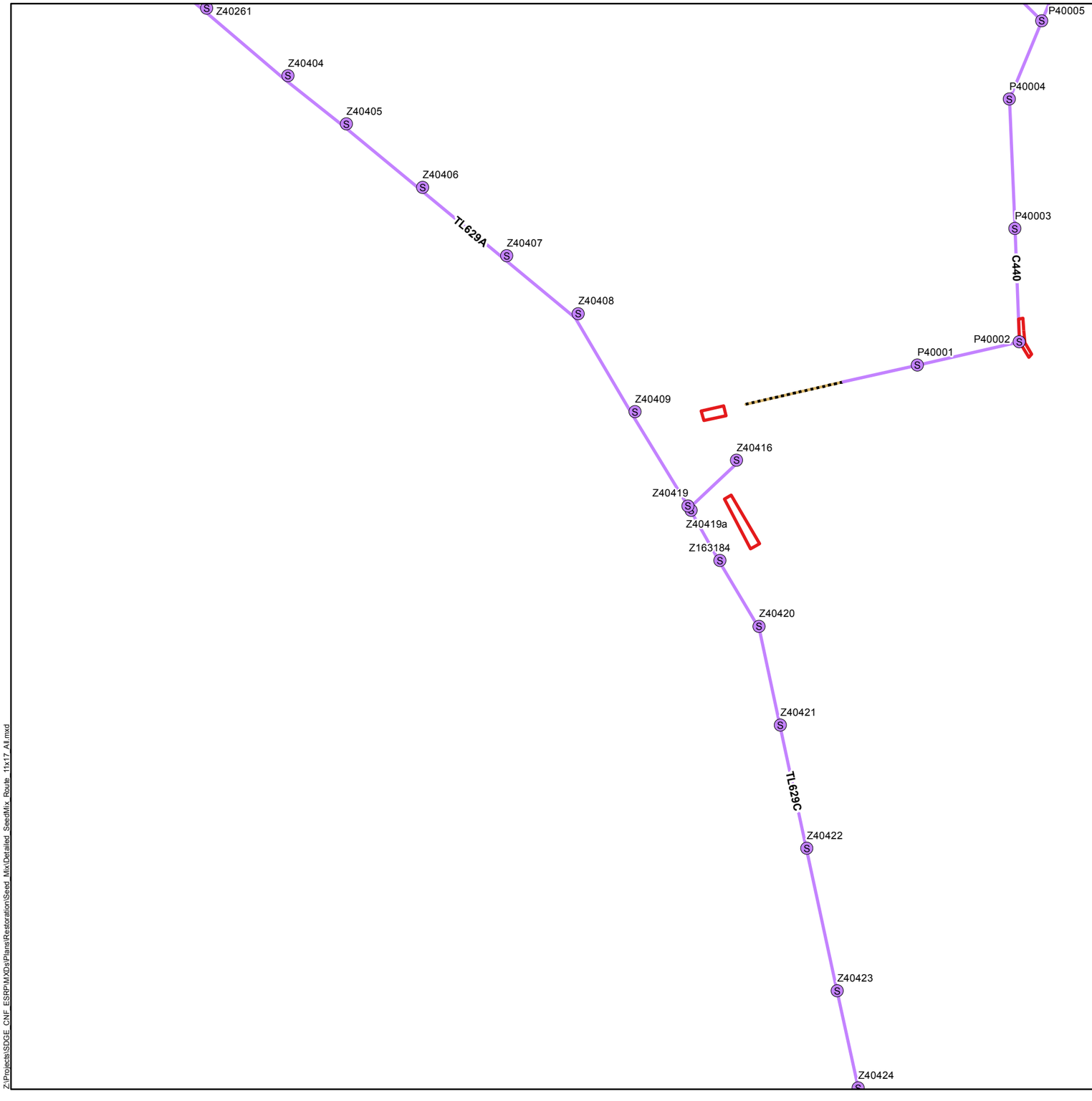
ATTACHMENT B-15: TL629C PRESCRIBED SEED MIX APPLICATION MAPPING

Attachment B-15:
TL629C
Prescribed Seed Mix
Map 1 of 12

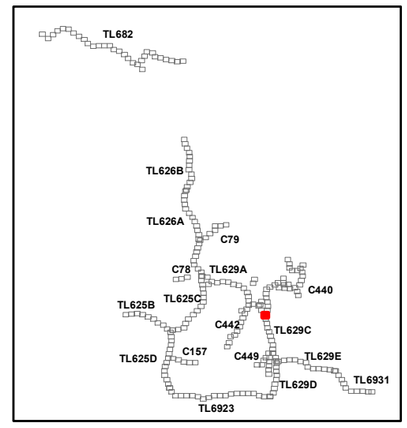
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Undergrounding
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral



SDGE A Sempra Energy utility

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Z40465
TL629C
Z40490
Z40501
Z40502
Z40503

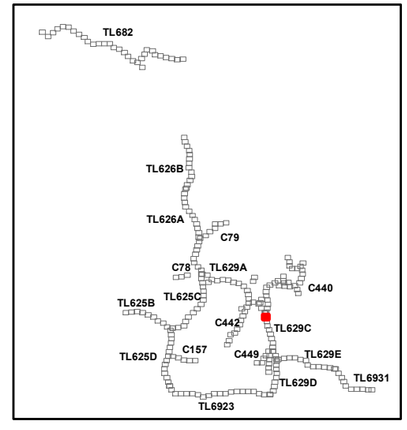
Attachment B-15:
TL629C
Prescribed Seed Mix
Map 2 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Coastal Sage / Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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6/17/2016

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Z40505
TL629C
Z40506
Z40507
Z40508
Z40509
Z40510

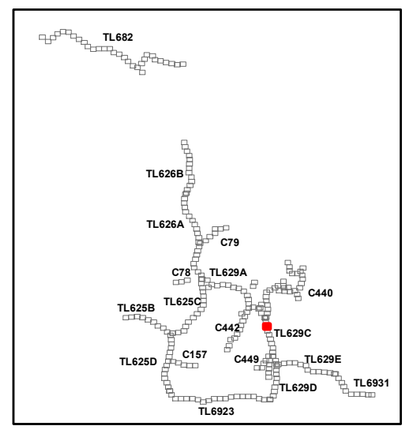
Attachment B-15:
TL629C
Prescribed Seed Mix
Map 3 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Coastal Sage / Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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6/17/2016

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Z40514
Z40515
TL629C
Z40516
Z40517
Z40518
Z40519

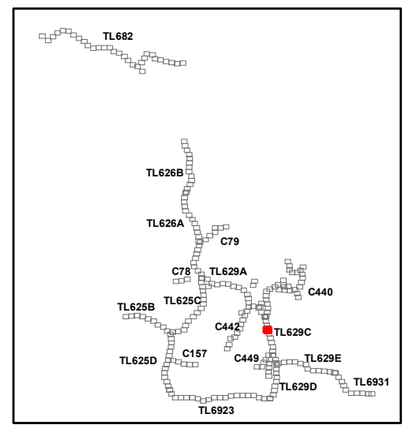
Attachment B-15:
TL629C
Prescribed Seed Mix
Map 4 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/17/2016

Attachment B-15:
TL629C
Prescribed Seed Mix
Map 5 of 12

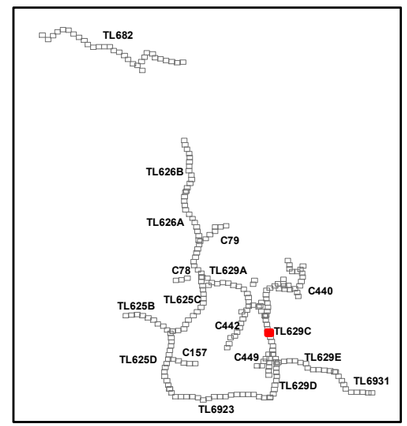
Cleveland National Forest
Power Line Replacement Projects

Z40518
Z40519
Z40520
Z40521
TL629C
Z40522
Z40523
Z40524
Z40525
Z40526

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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Z40525

Z40526

Z40527

Z40528

TL629C

Z40529

Z40530

Z40531

Z40532

Z40533

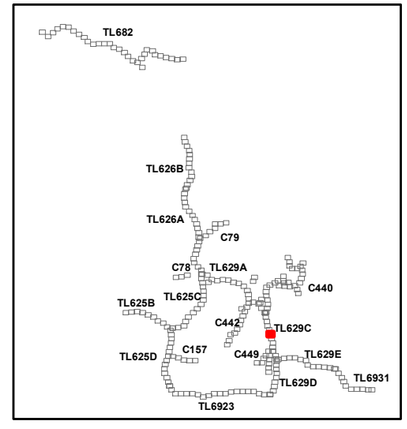
Attachment B-15:
TL629C
Prescribed Seed Mix
Map 6 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging
- Access Road

Seed Mix Types

- Big Sage Scrub
- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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6/17/2016

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Z40534
TL629C
Z40535
Z40536
Z40537
Z40538
Z40539

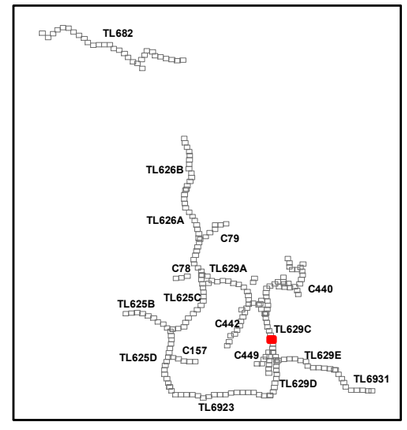
Attachment B-15:
TL629C
Prescribed Seed Mix
Map 7 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub
- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control



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Z40547
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Z40548
Z40549
Z40550
Z40551
Z40552

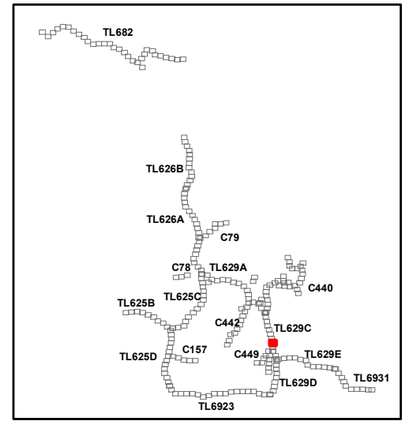
Attachment B-15:
TL629C
Prescribed Seed Mix
Map 8 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Big Sage Scrub
- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control



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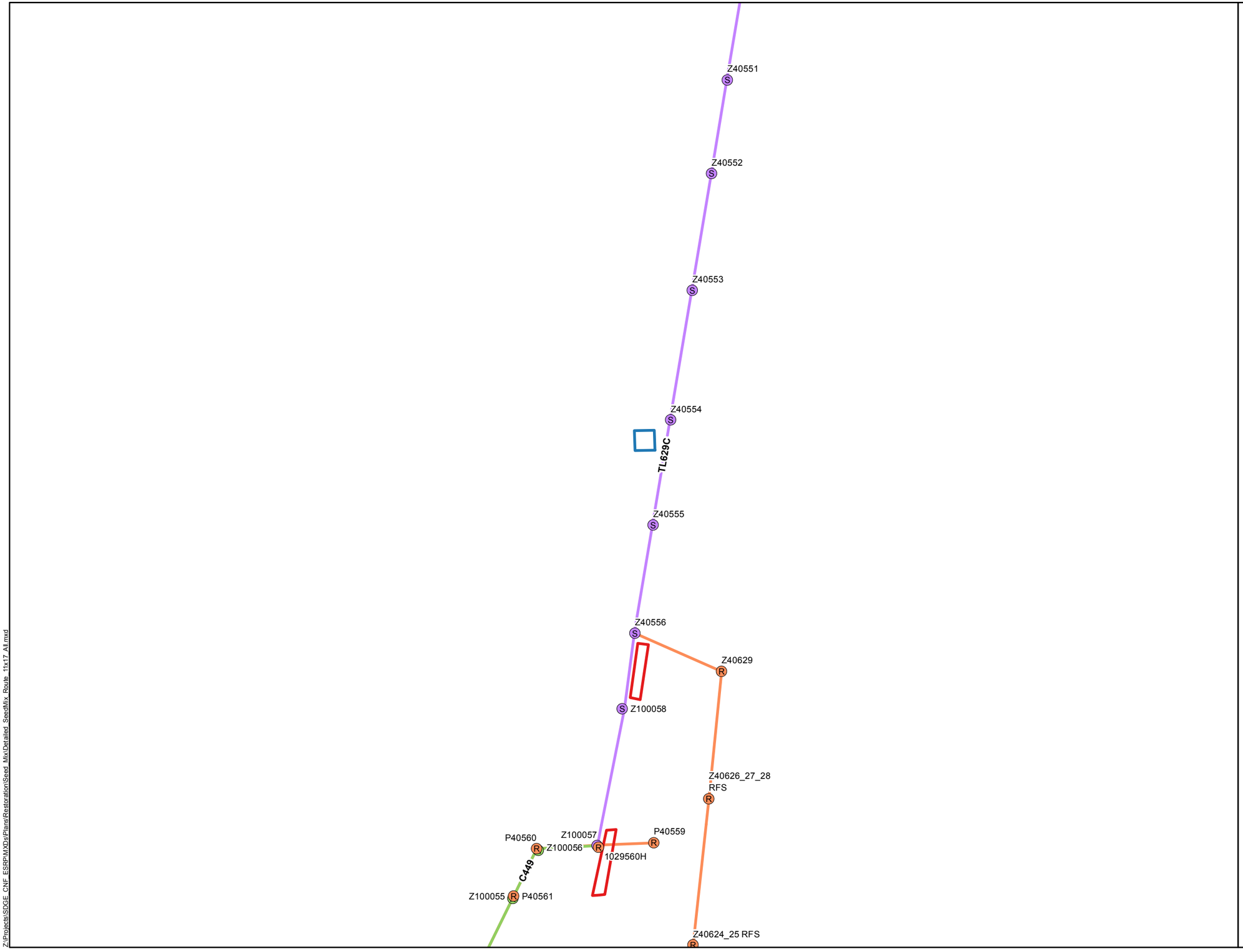


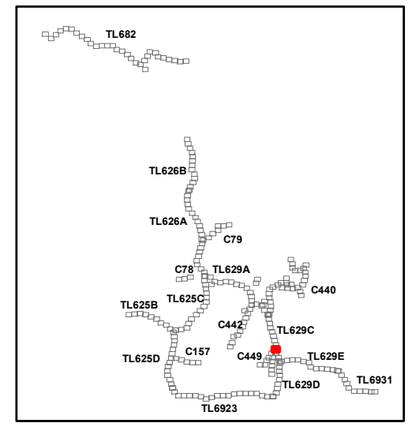
Attachment B-15:
TL629C
Prescribed Seed Mix
Map 9 of 12

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Fly Yard
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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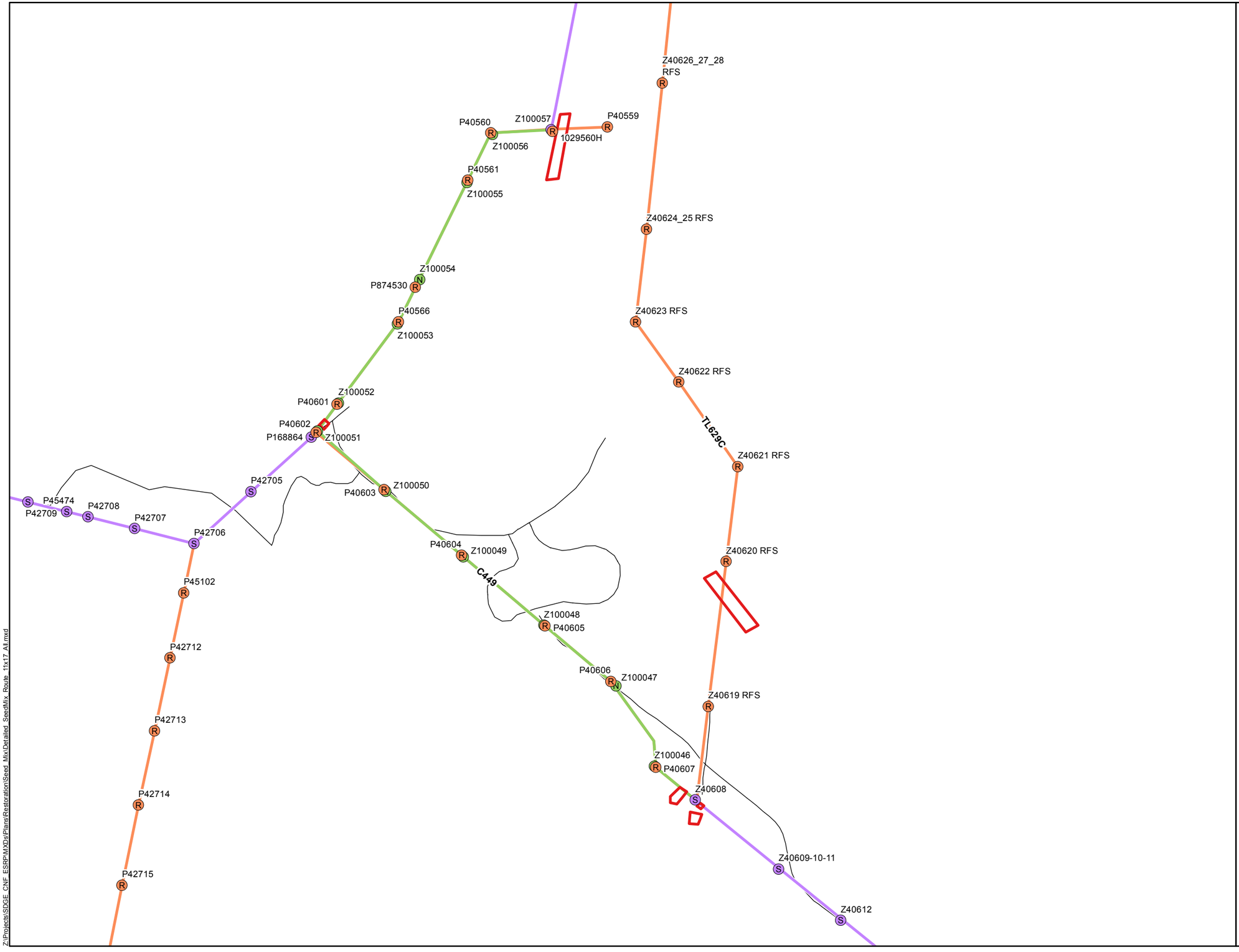


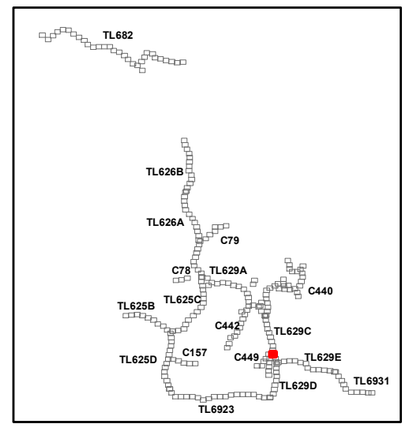
Attachment B-15:
TL629C
Prescribed Seed Mix
Map 10 of 12

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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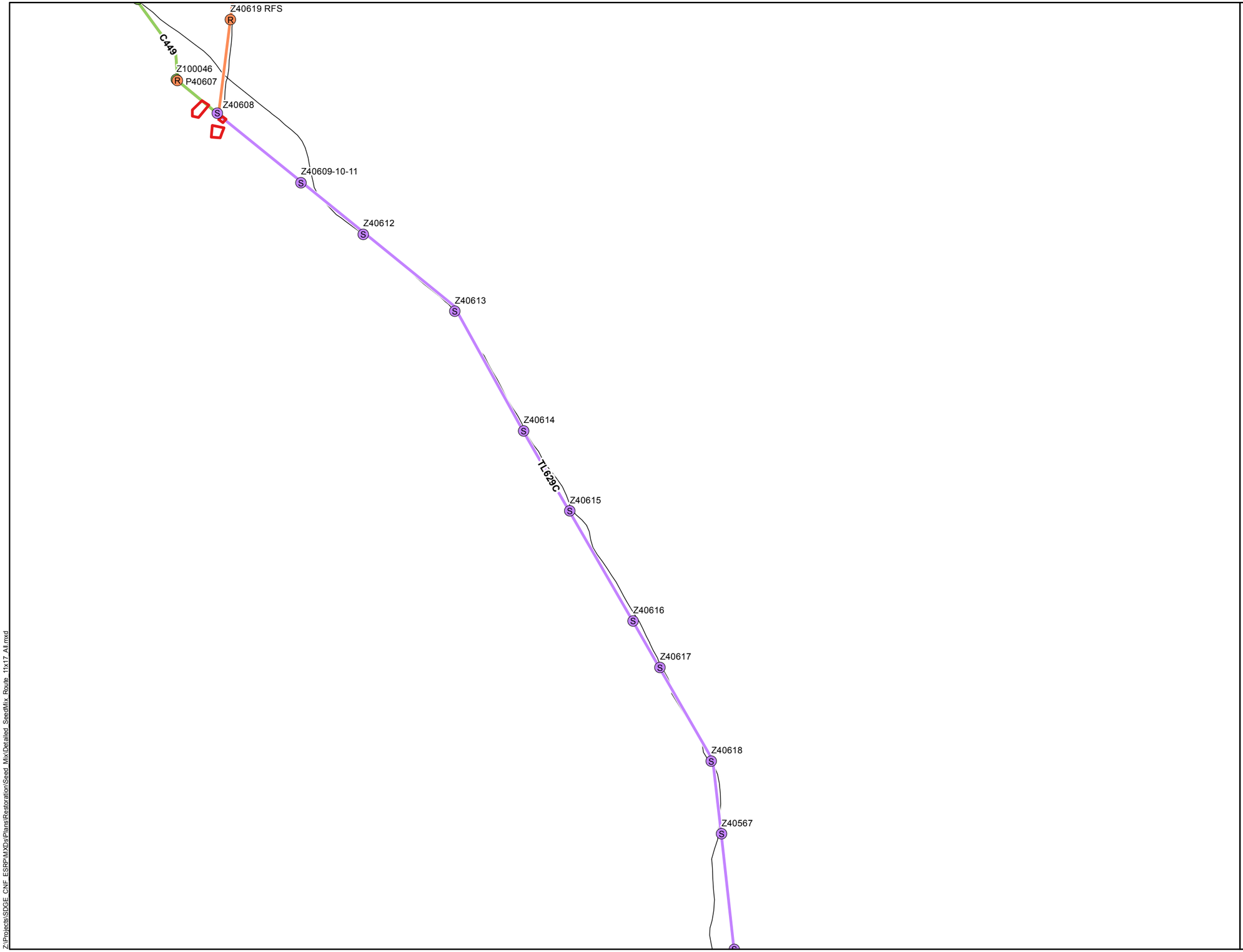


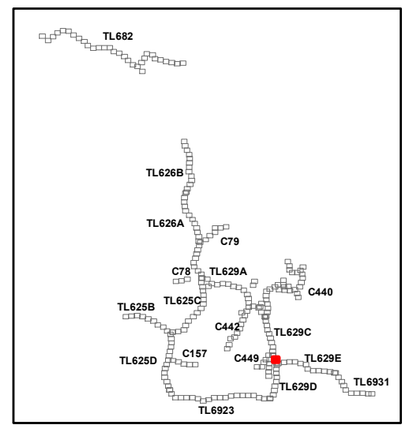
Attachment B-15:
TL629C
Prescribed Seed Mix
Map 11 of 12

Cleveland National Forest
Power Line Replacement Projects

- New Steel Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- New Steel
- Removal
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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Z203063
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P192946
P192944
Z40575-76
Z40572-73-74
P192945
Z40968-69
Z40970
TL629D
Z40577
TL629E
Z40578
Z40579

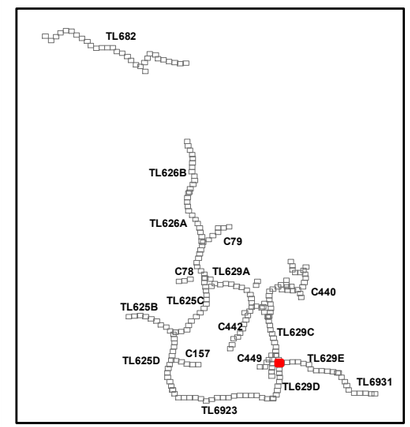
Attachment B-15:
TL629C
Prescribed Seed Mix
Map 12 of 12

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Fly Yard
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE a Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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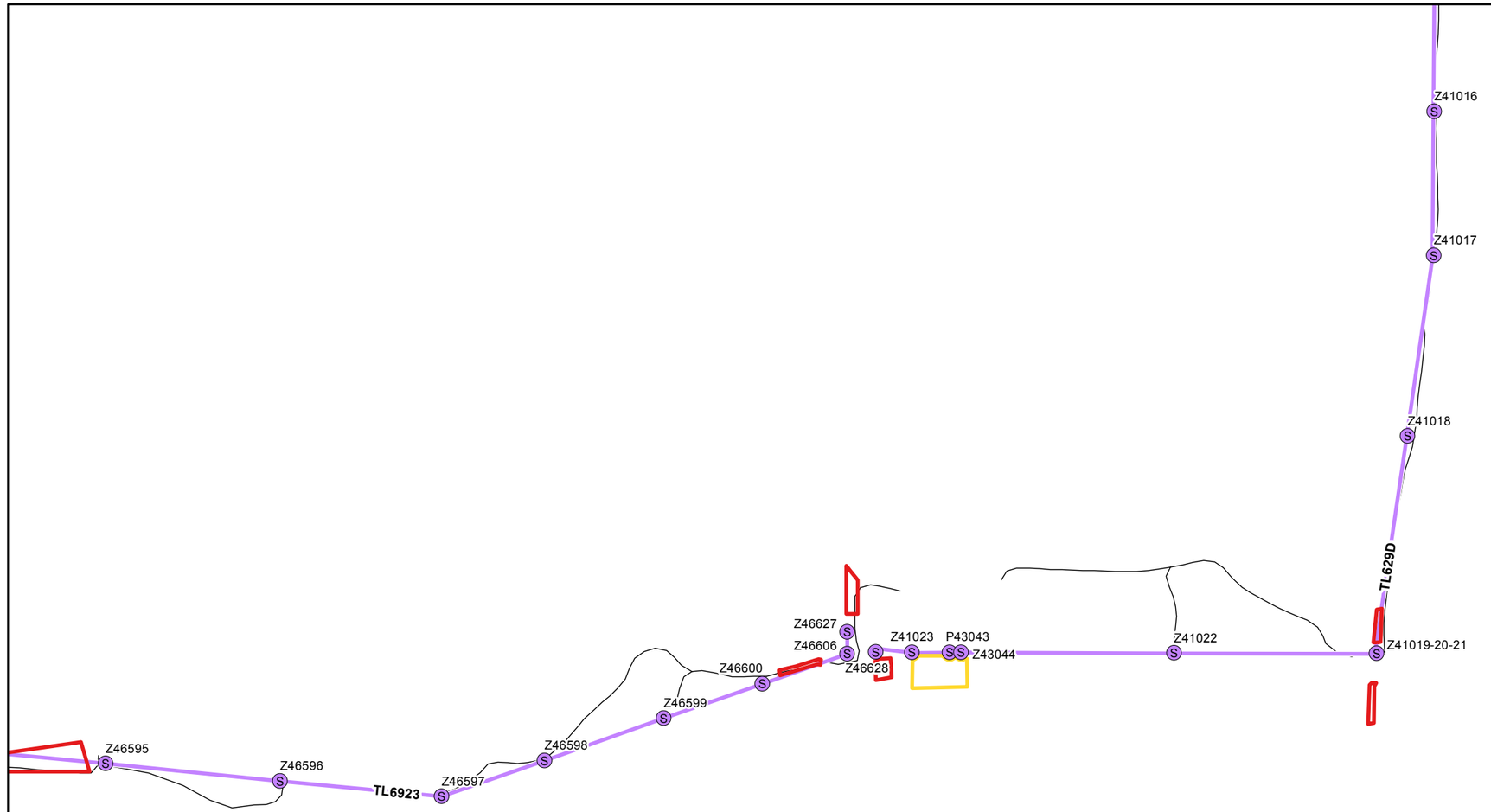
ATTACHMENT B-16: TL629D PRESCRIBED SEED MIX APPLICATION MAPPING

Attachment B-16:
TL629D
Prescribed Seed Mix
Map 1 of 9

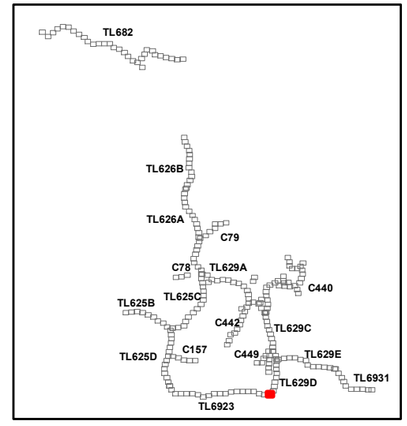
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control



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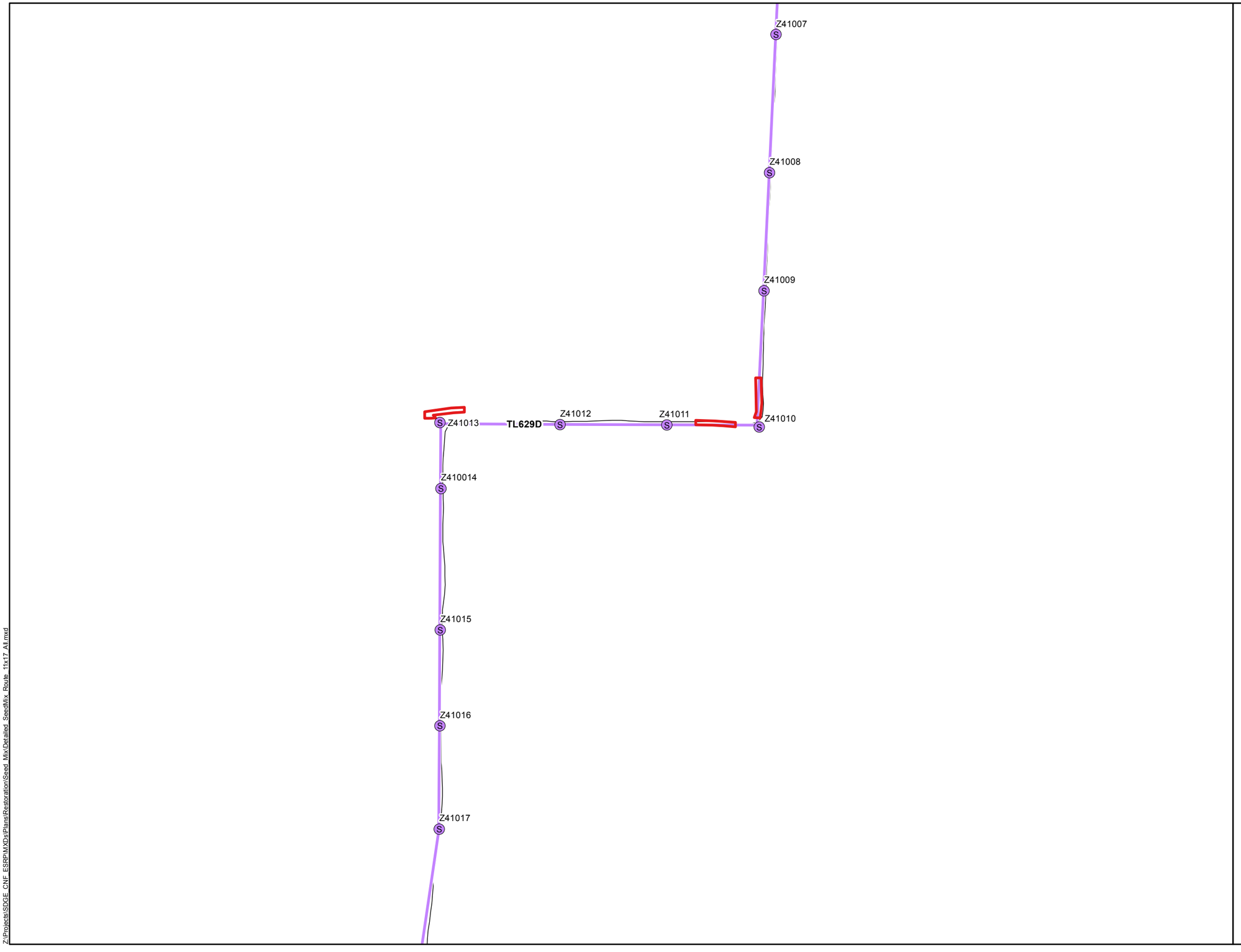


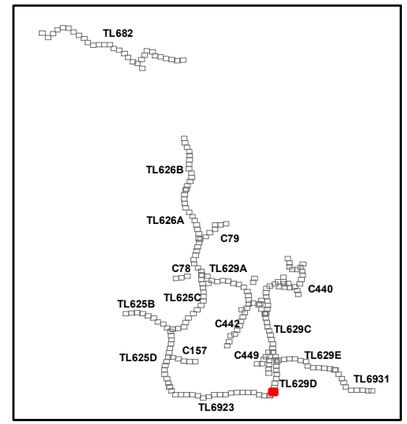
Attachment B-16:
TL629D
Prescribed Seed Mix
Map 2 of 9

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control



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TL629D
Z41005
Z41006
Z41007
Z41008

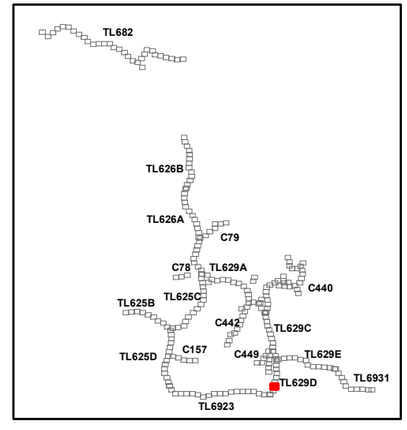
Attachment B-16:
TL629D
Prescribed Seed Mix
Map 3 of 9

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Chamise Chaparral



SDGE a Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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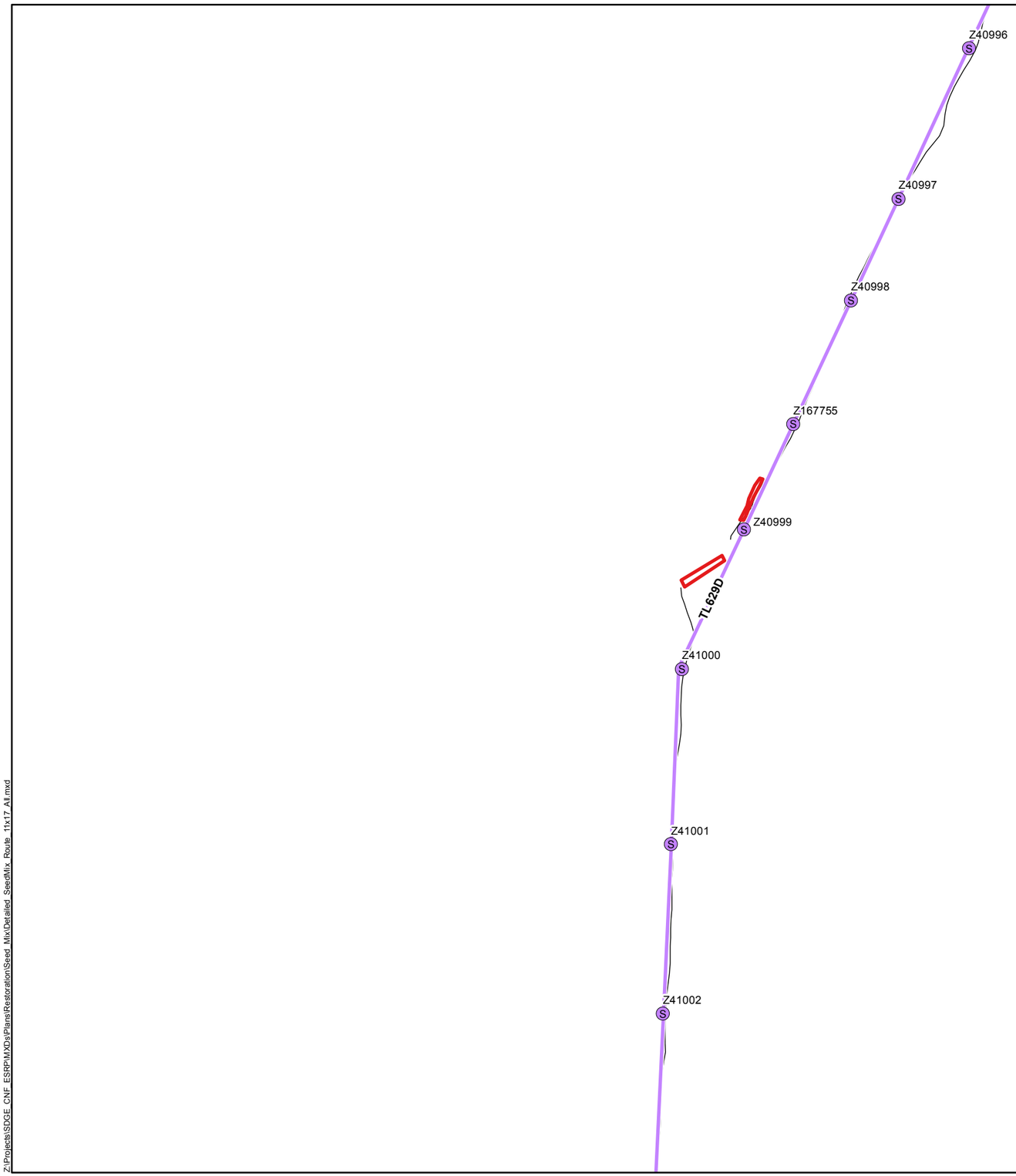
Attachment B-16:
TL629D
Prescribed Seed Mix
Map 4 of 9

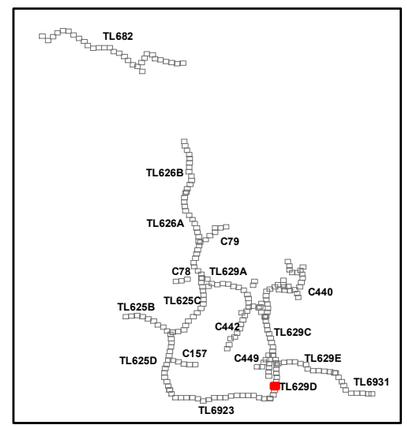
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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TL629D
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Z40994
Z40995
Z40996
Z40997

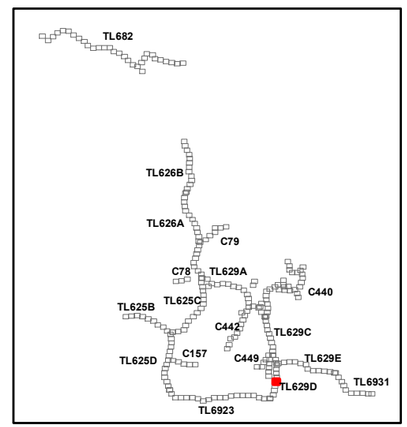
Attachment B-16:
TL629D
Prescribed Seed Mix
Map 5 of 9

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
INSIGHT ENVIRONMENTAL

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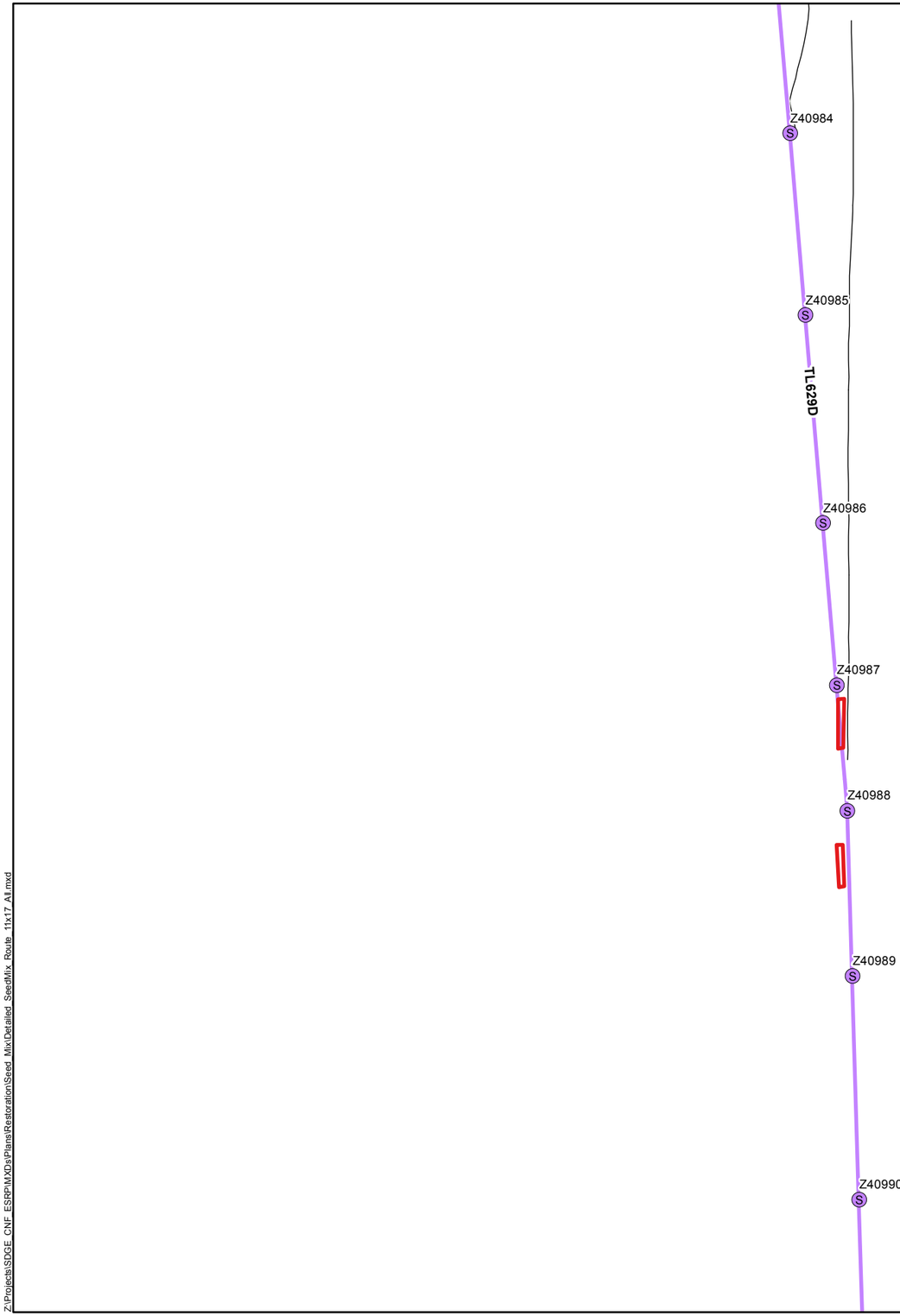
Attachment B-16:
TL629D
Prescribed Seed Mix
Map 6 of 9

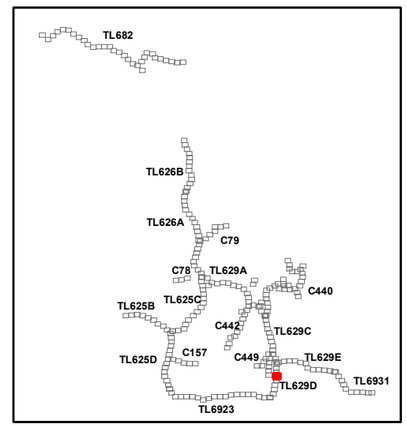
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub and Coast Live Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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Z40980

Z40981

Z40982

TL629D

Z40983

Z40984

Attachment B-16:
TL629D
Prescribed Seed Mix
Map 7 of 9

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

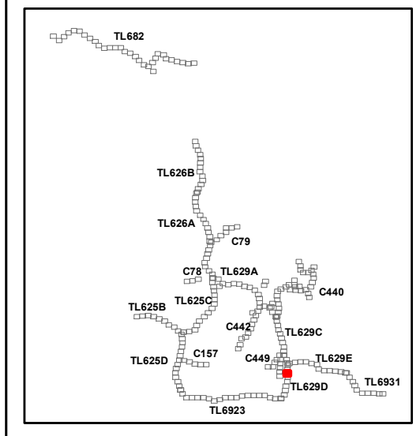
Access Road

Seed Mix Types

Big Sage Scrub and Coast Live Oak Woodland

Oak Savanna, Non-Native Grassland, and Erosion Control

Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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TL629D
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Z40978
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Z40979

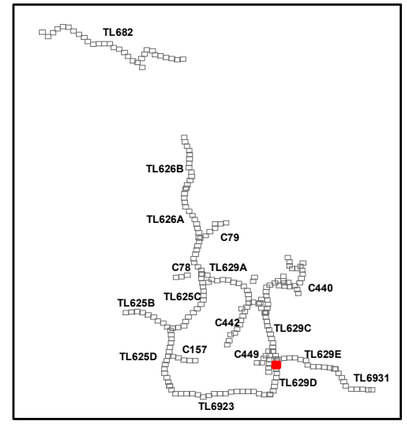
Attachment B-16:
TL629D
Prescribed Seed Mix
Map 8 of 9

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Big Sage Scrub and Coast Live Oak Woodland
- Meadow / Seep and Southern Willow Scrub
- Oak Savanna, Non-Native Grassland, and Erosion Control



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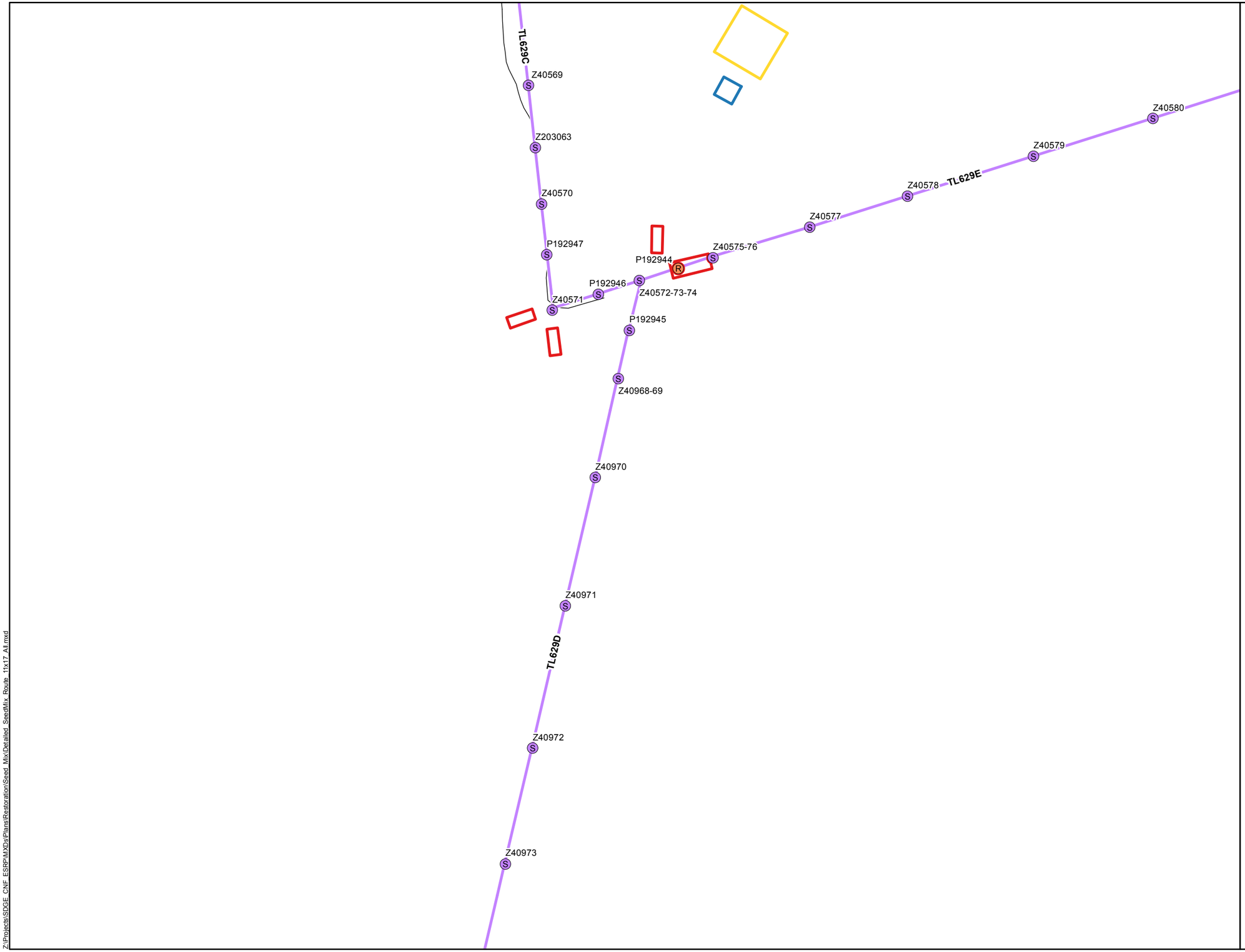
Attachment B-16:
TL629D
Prescribed Seed Mix
Map 9 of 9

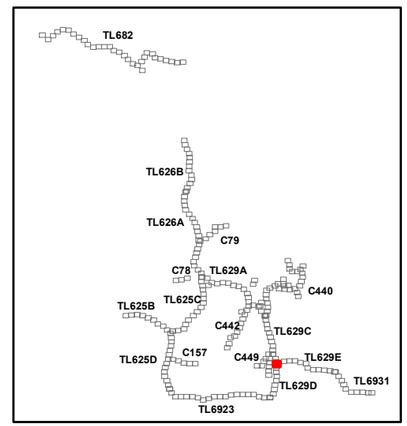
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Fly Yard
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Meadow / Seep and Southern Willow Scrub



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ATTACHMENT B-17: TL625C PRESCRIBED SEED MIX APPLICATION MAPPING

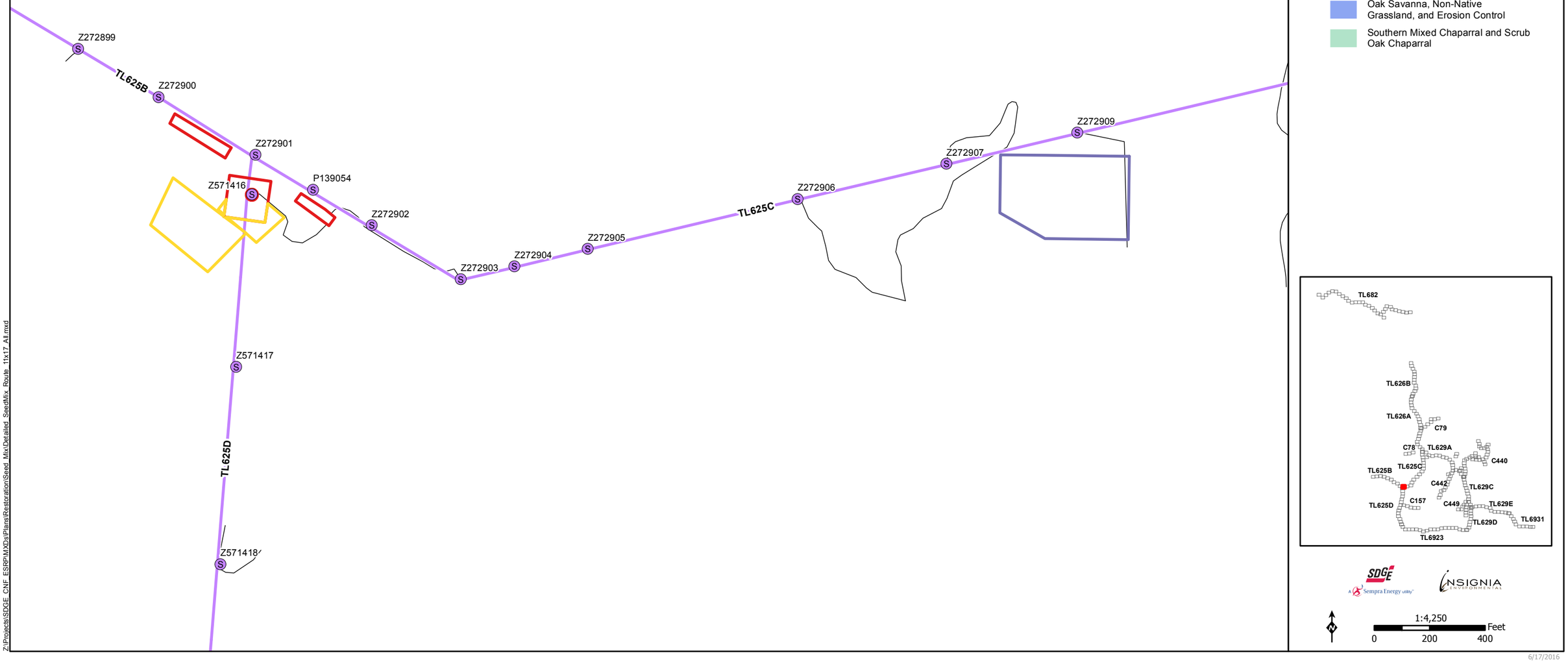
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 1 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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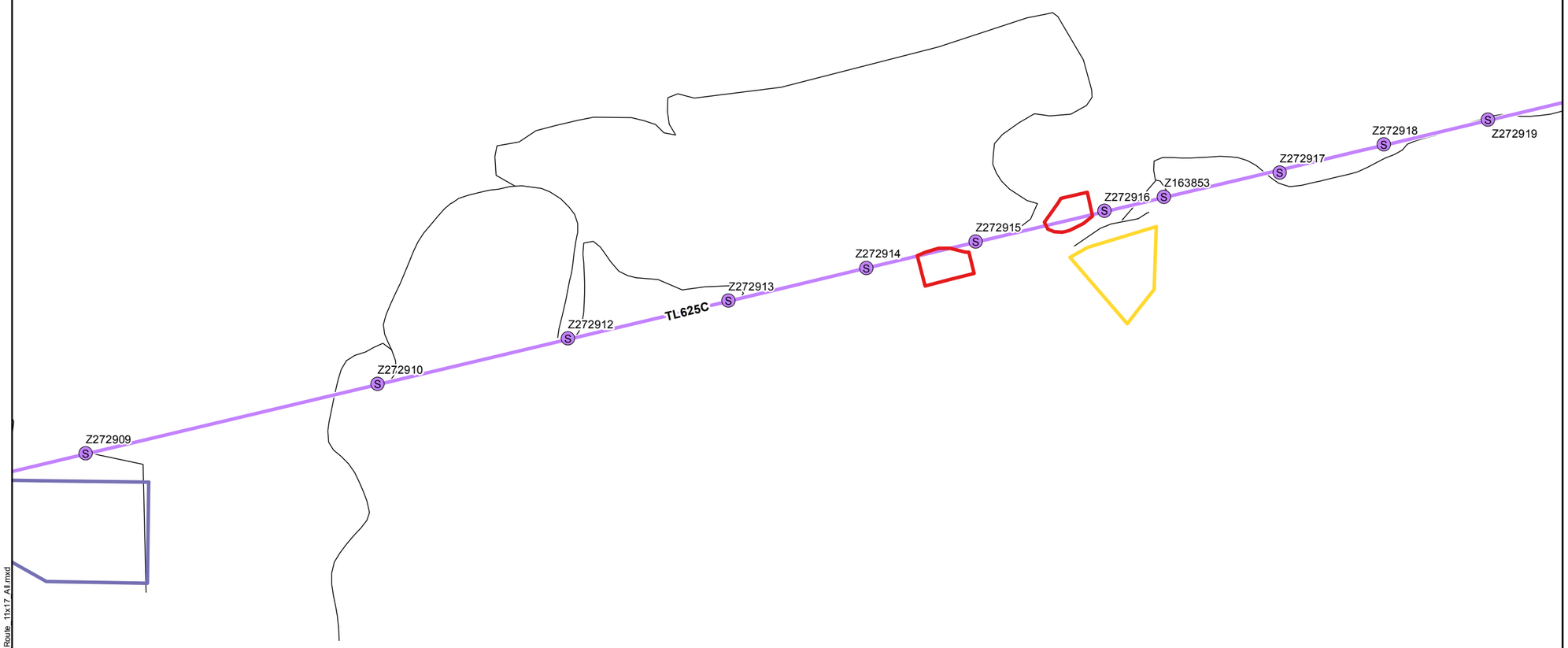
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 2 of 16

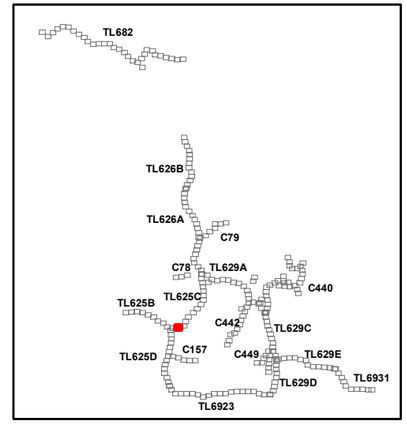
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard and Staging
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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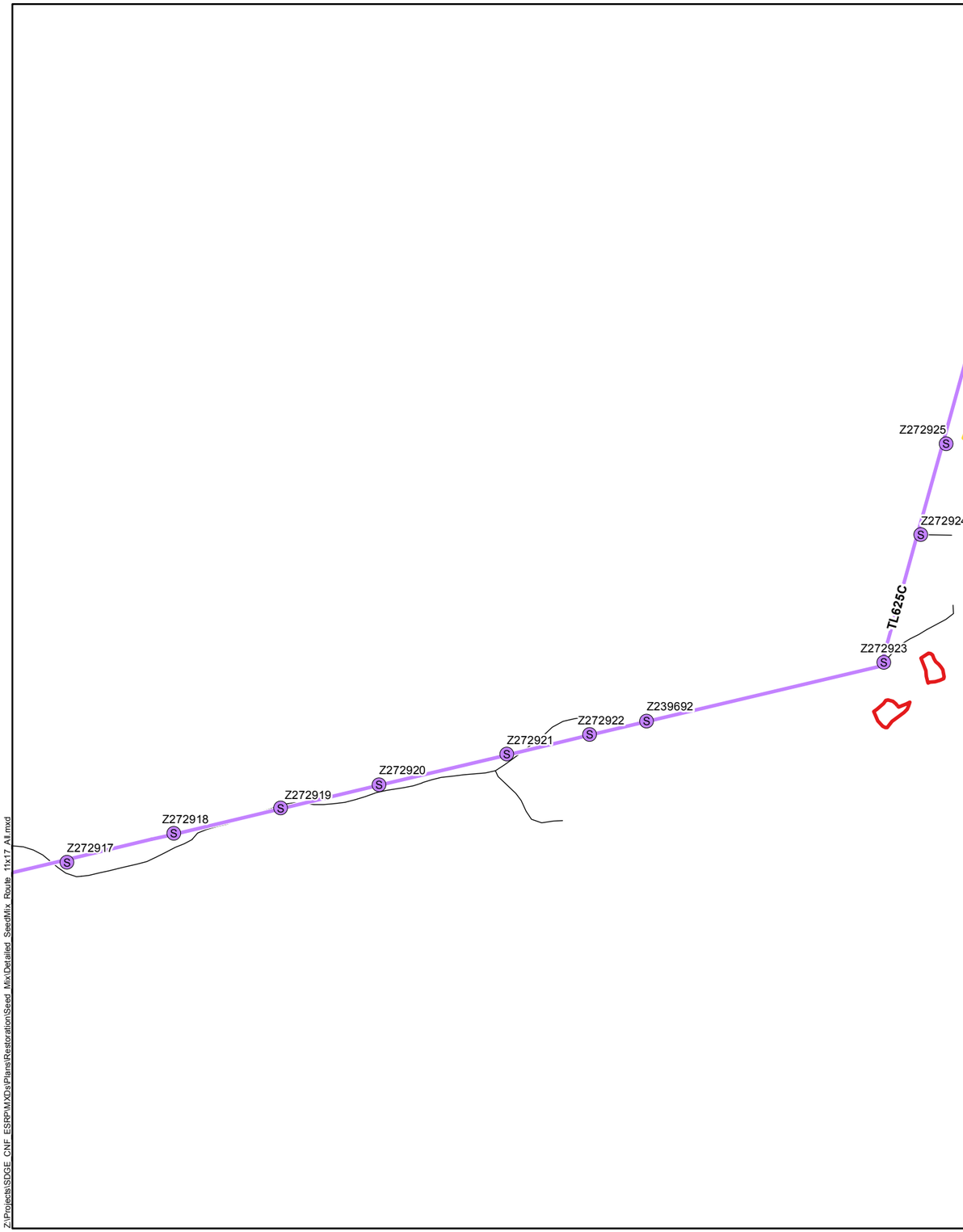
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 3 of 16

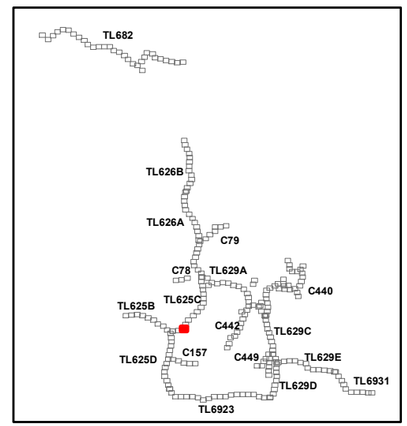
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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6/17/2016

Attachment B-17:
TL625C
Prescribed Seed Mix
Map 4 of 16

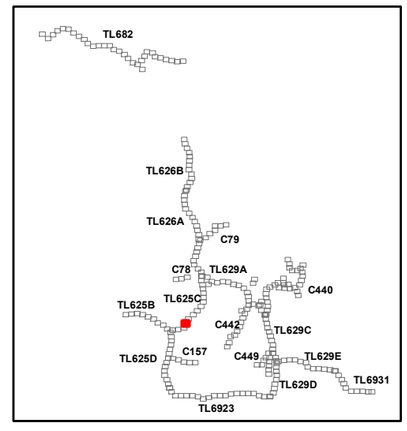
Cleveland National Forest
Power Line Replacement Projects

Z272936
Z272935
Z272934
Z272933
TL625C
Z272932
Z272931
Z272930
Z272929
Z272928
Z272927

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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TL625C
Z972939
Z119859
Z272938
Z272937
Z272936
Z272935

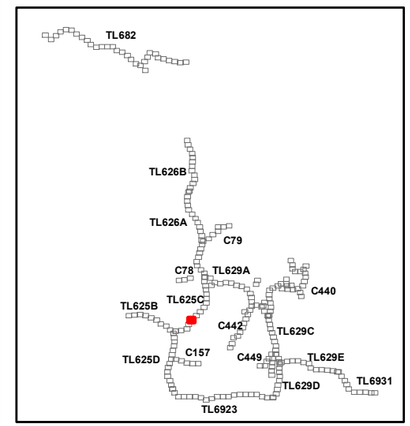
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 5 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland
- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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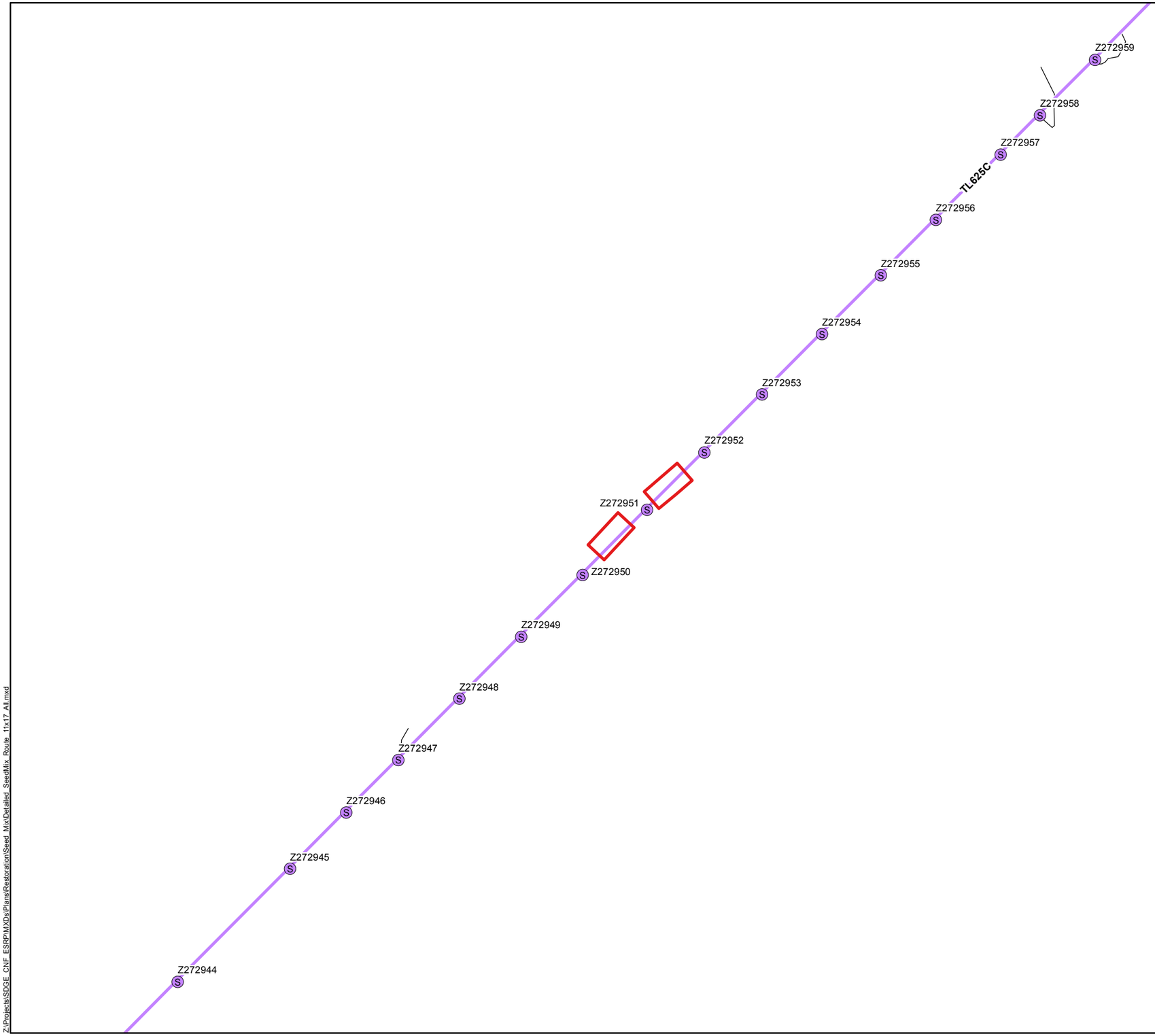
6/17/2016

Attachment B-17:
TL625C
Prescribed Seed Mix
Map 6 of 16

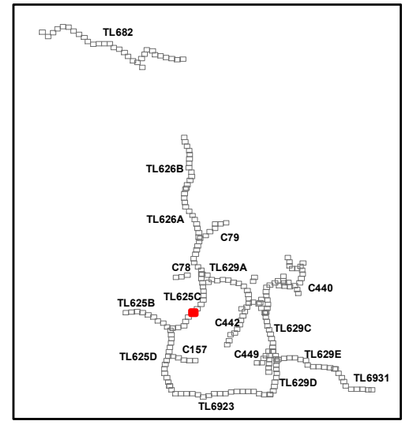
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



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Z262961
Z272960
Z272959
Z272958
Z272957
Z272956

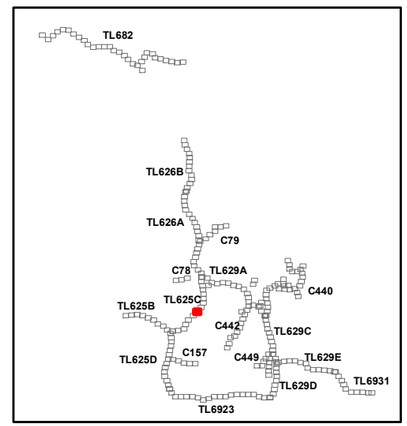
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 7 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



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6/17/2016

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Z272974
Z272973
Z272972
P33489
Z272971
Z272970
Z272969

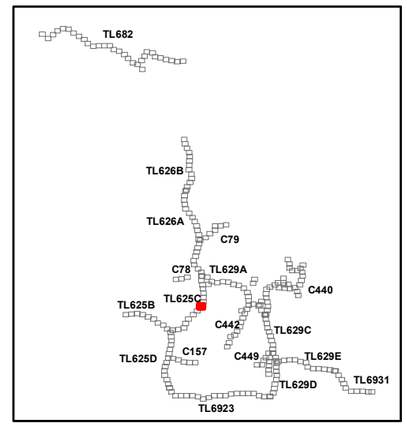
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 8 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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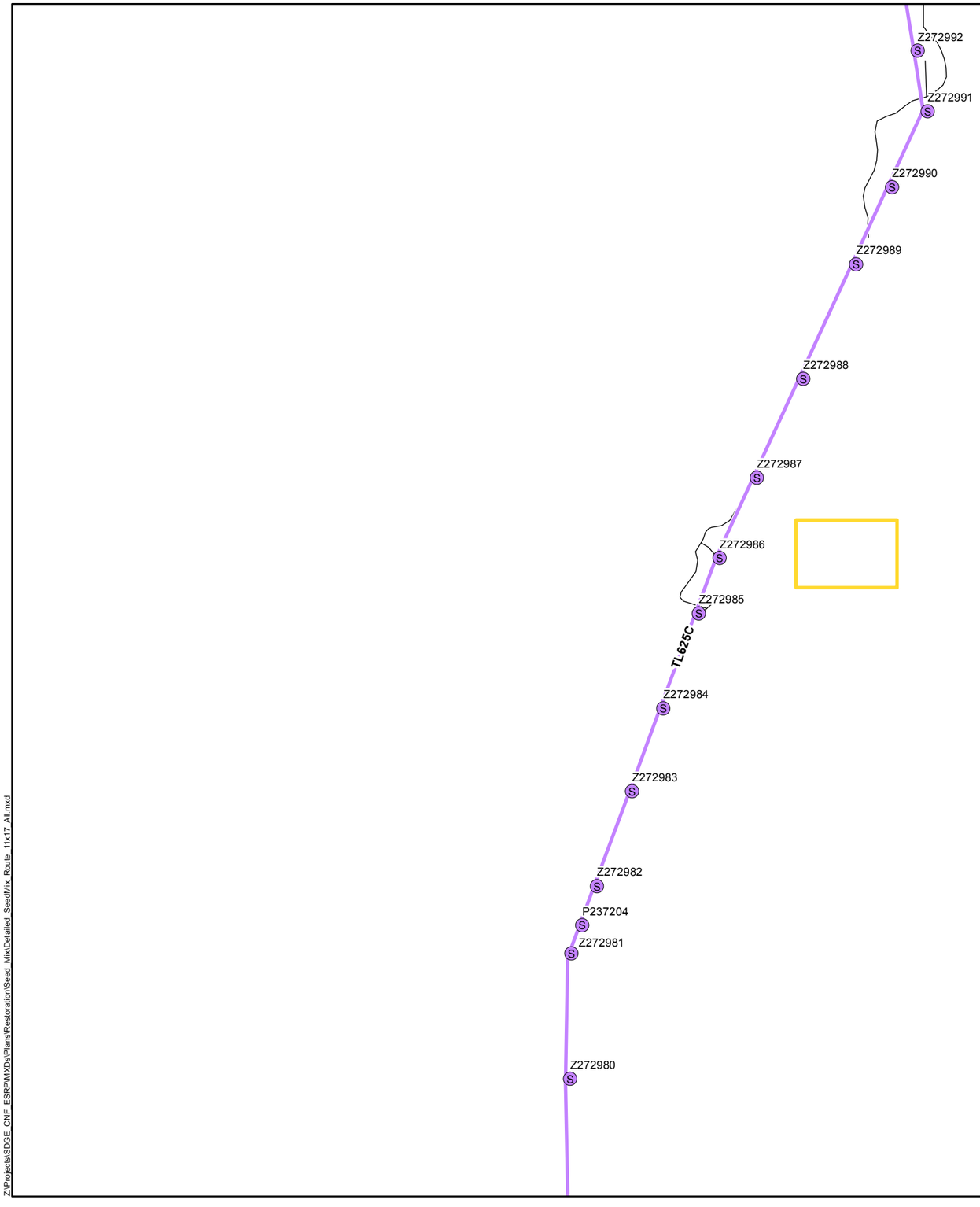
6/17/2016

Attachment B-17:
TL625C
Prescribed Seed Mix
Map 9 of 16

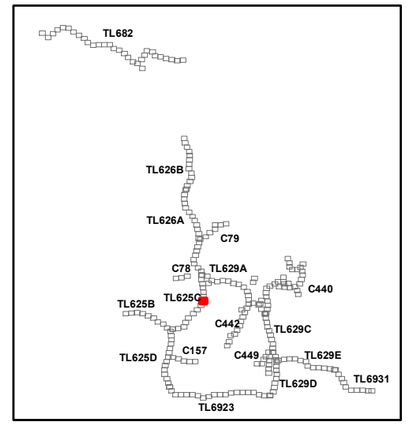
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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Attachment B-17:
TL625C
Prescribed Seed Mix
Map 10 of 16

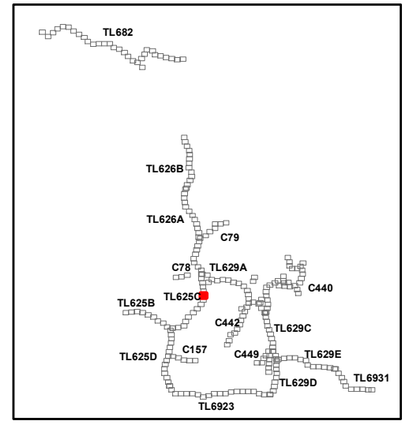
Cleveland National Forest
Power Line Replacement Projects

Z272998
Z272997
Z272996
Z272995
Z272994
TL625C
Z292993
Z272992
Z272991
Z272990

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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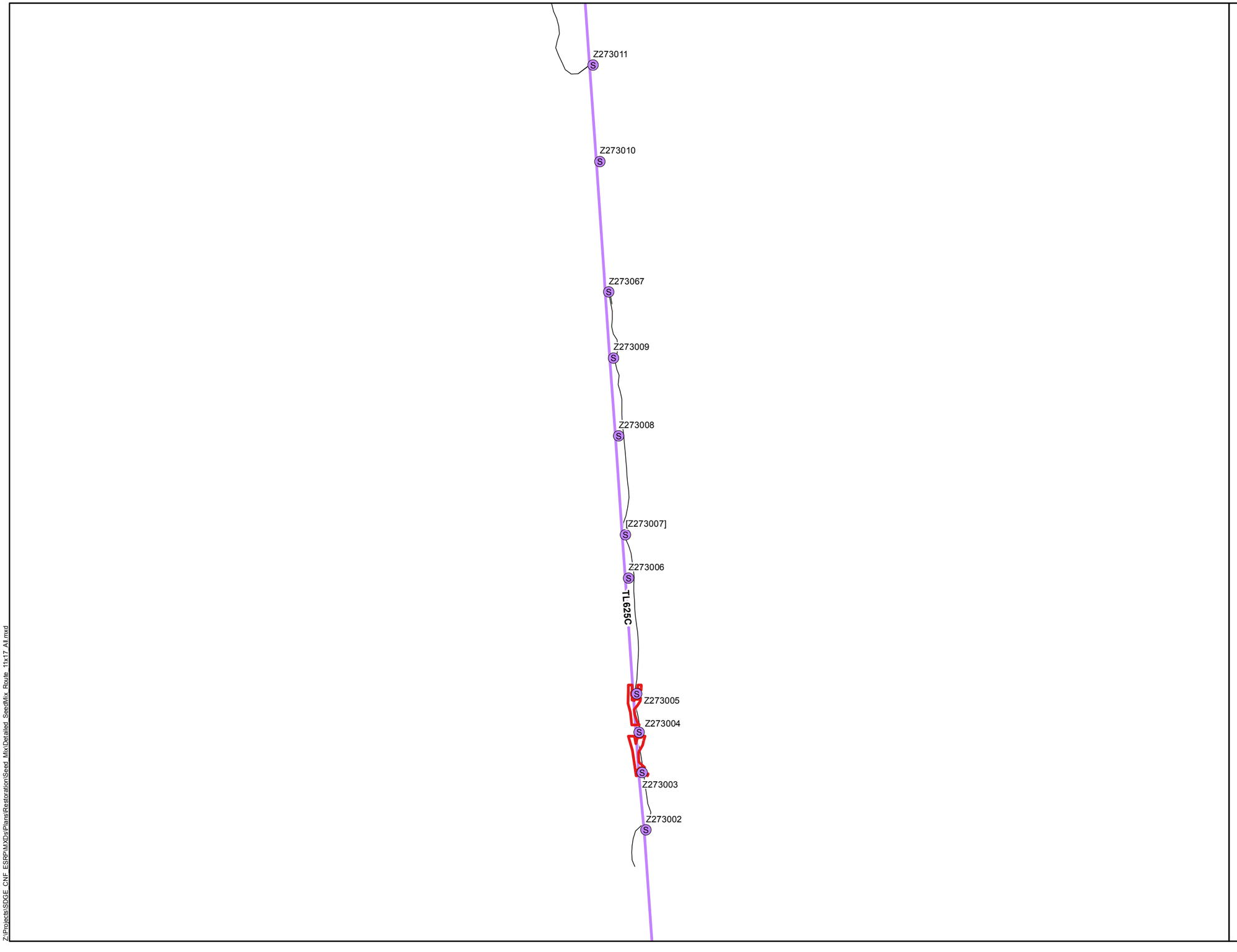


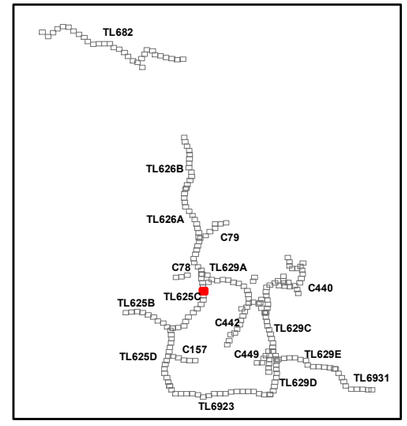
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 11 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



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Z273018

TL625C

Z273017

Z273016

Z273015

Z273014

P273013

P273012

P119857

Z273011

Z273010

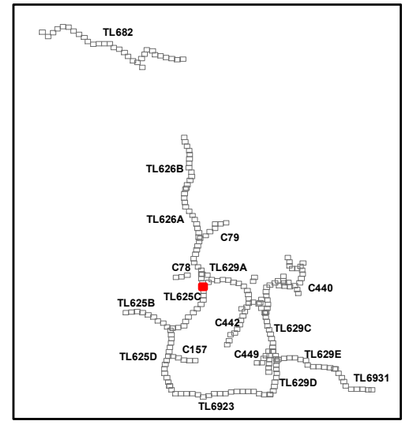
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 12 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Fly Yard
- Access Road

Seed Mix Types

- Oak Savanna, Non-Native Grassland, and Erosion Control
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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Z273021
Z273020
Z273019
Z273018

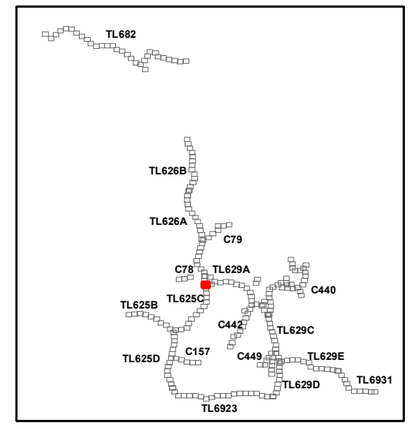
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 13 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
INSIGNIA ENVIRONMENTAL

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Attachment B-17:
TL625C
Prescribed Seed Mix
Map 14 of 16

Cleveland National Forest
Power Line Replacement Projects

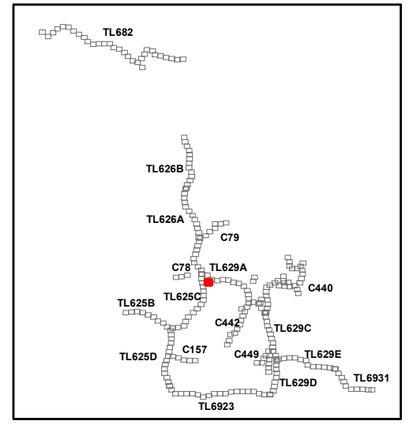
Staging Area

Access Road

Seed Mix Types

Diegan Coastal Sage Scrub, Coast Live Oak Woodland, and Mixed Oak Woodland

Oak Savanna, Non-Native Grassland, and Erosion Control



SDGE a Sempra Energy utility

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Z273030
Z273029
Z273028
Z273027

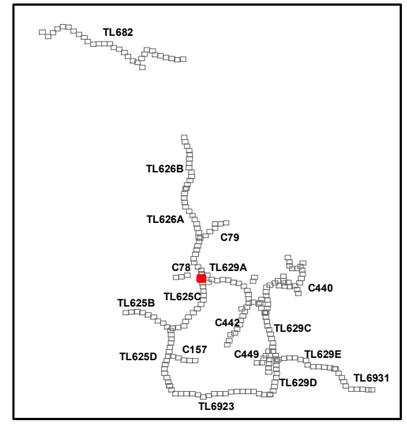
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 15 of 16

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



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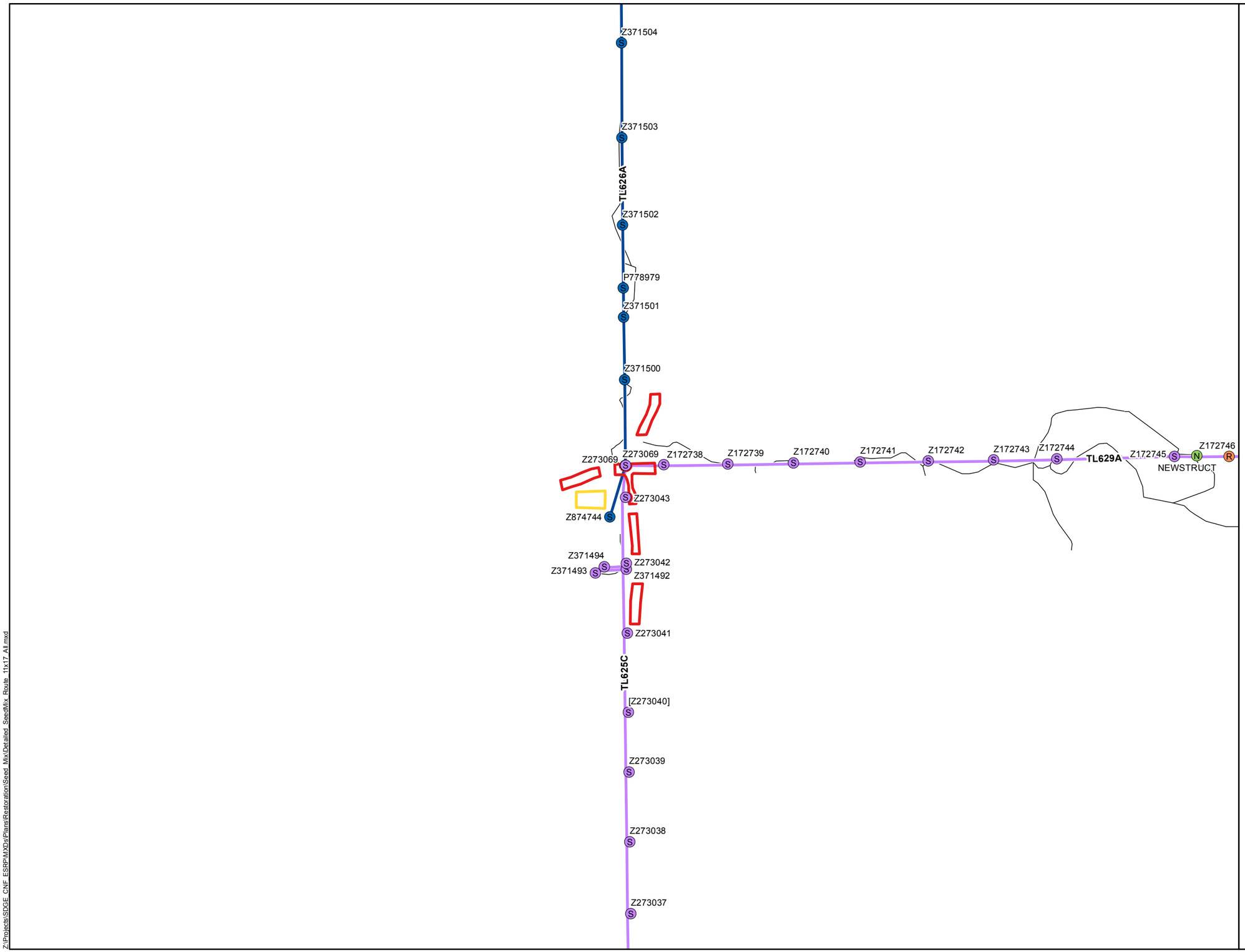
Attachment B-17:
TL625C
Prescribed Seed Mix
Map 16 of 16

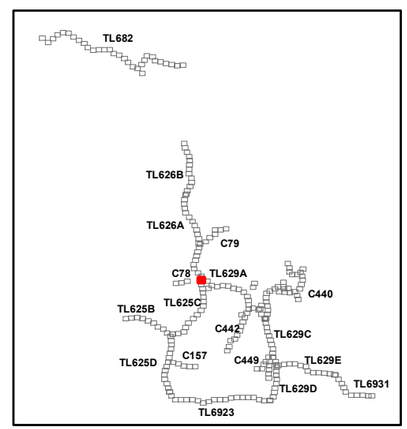
Cleveland National Forest
Power Line Replacement Projects



- New Steel Pole
- Wood-to-Steel 12 kV Pole
- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel 12 kV
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub
- Oak Chaparral



SDGE A Sempra Energy utility

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ATTACHMENT B-18: TL6923 PRESCRIBED SEED MIX APPLICATION MAPPING

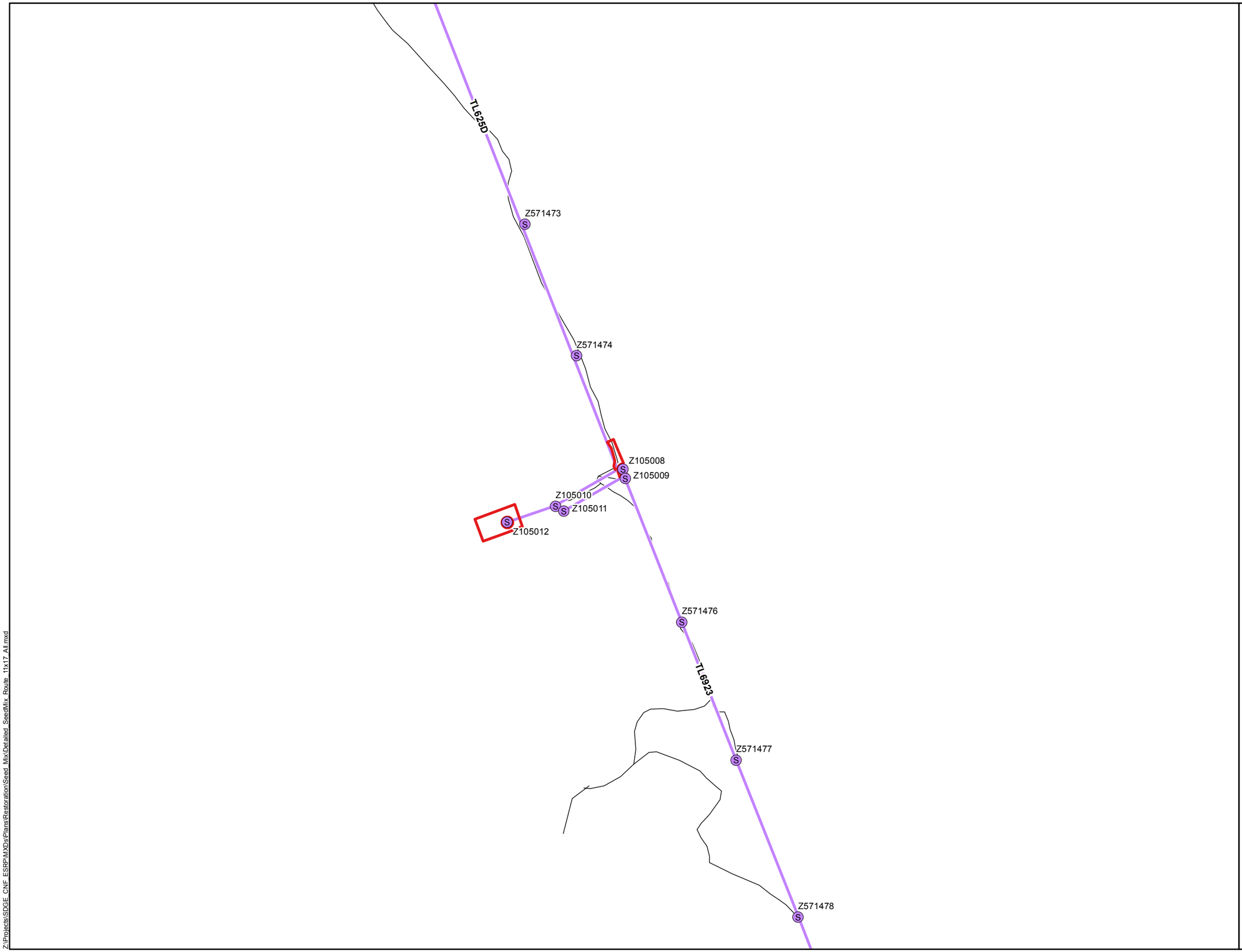
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 1 of 20

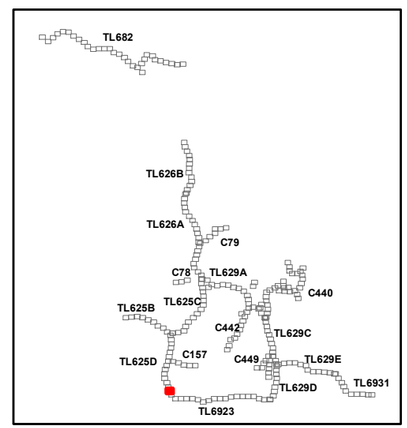
Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub
- Southern Mixed Chaparral and Scrub Oak Chaparral





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Z571482
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Z571484

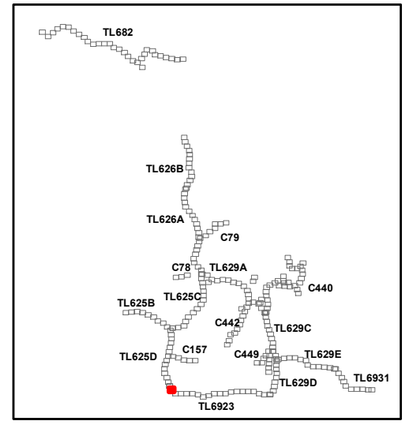
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 2 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub
- Southern Mixed Chaparral and Scrub Oak Chaparral



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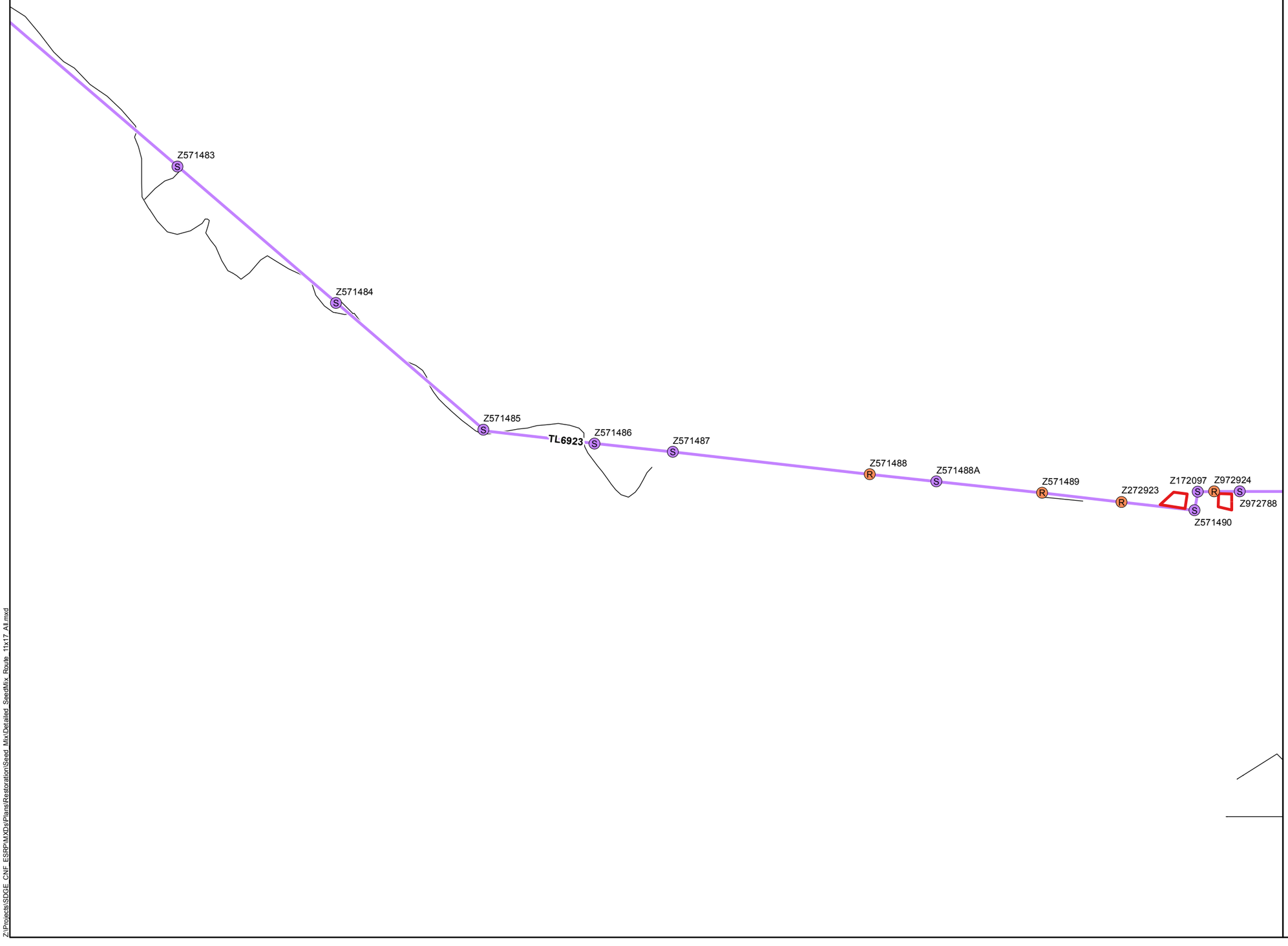
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 3 of 20

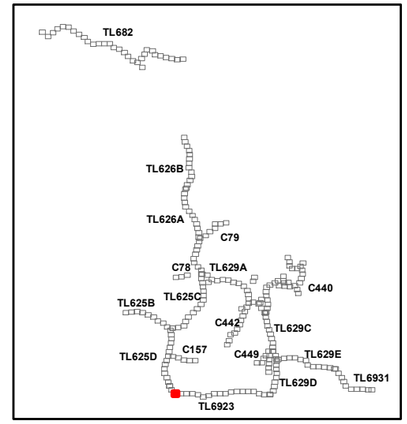
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Coastal Sage / Chaparral
- Diegan Coastal Sage Scrub
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

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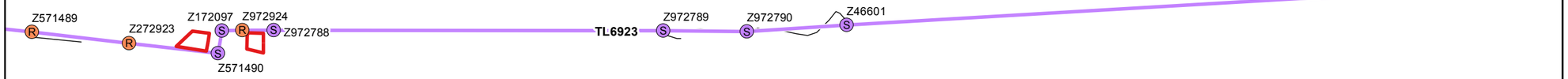
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 4 of 20

Cleveland National Forest
Power Line Replacement Projects

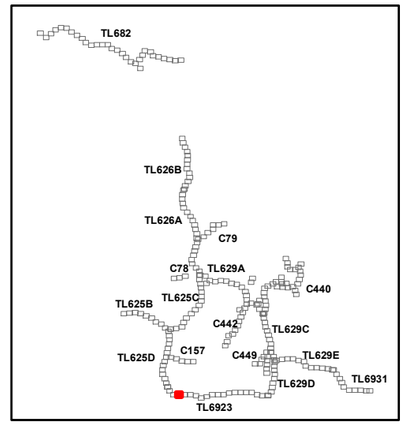




- Wood-to-Steel Replacement Pole
- Removal Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Coastal Sage / Chaparral
- Diegan Coastal Sage Scrub
- Southern Mixed Chaparral and Scrub
  Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

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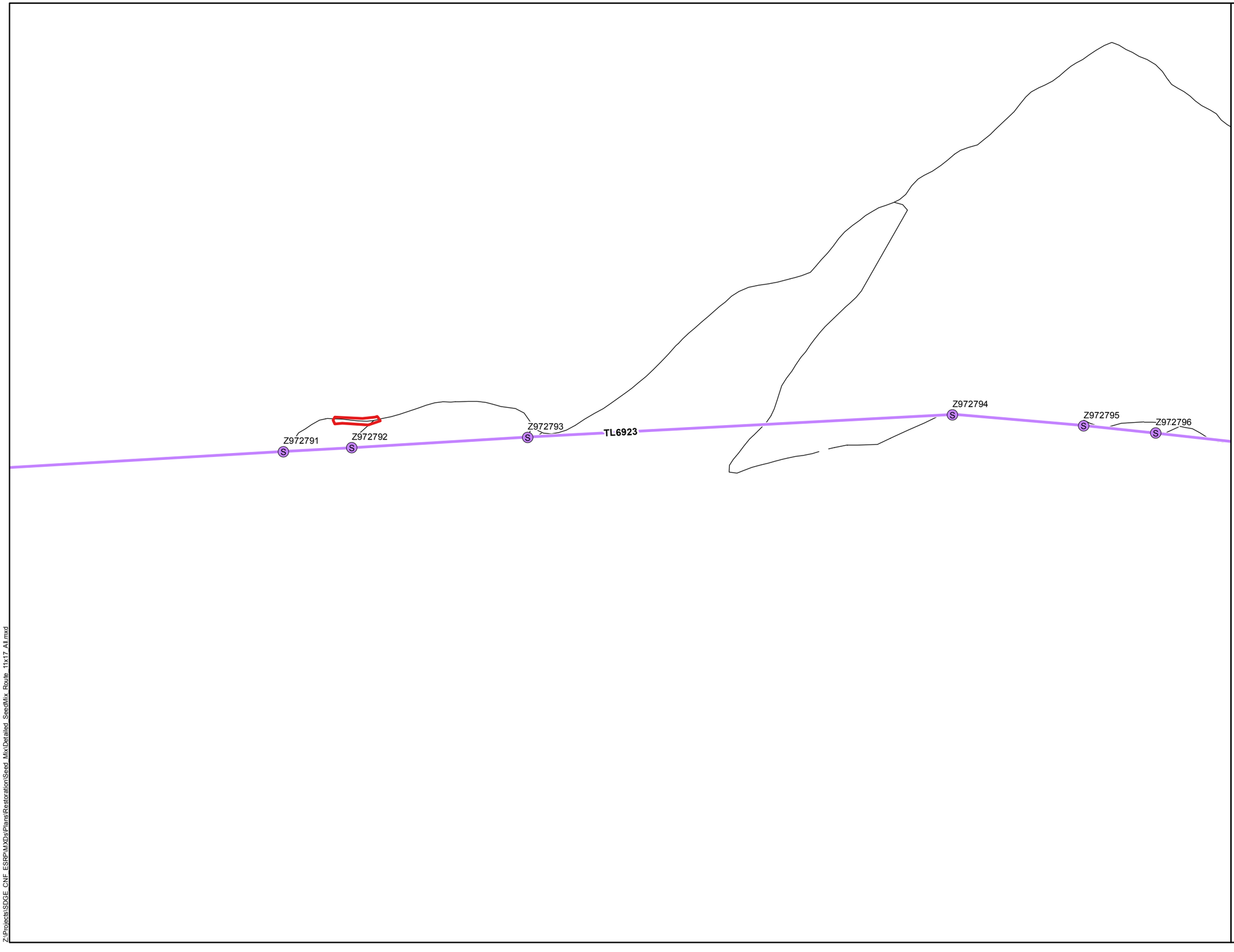
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 5 of 20

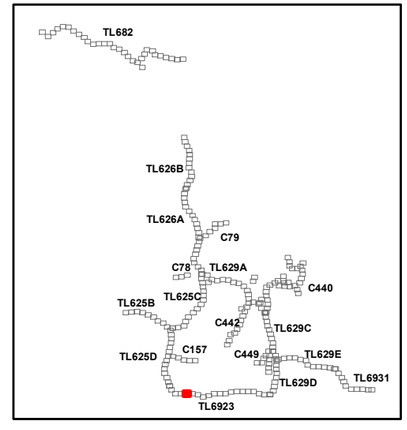
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland
- Coastal Sage / Chaparral
- Diegan Coastal Sage Scrub
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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0 200 400 Feet

6/17/2016

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Attachment B-18:
TL6923
Prescribed Seed Mix
Map 6 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral

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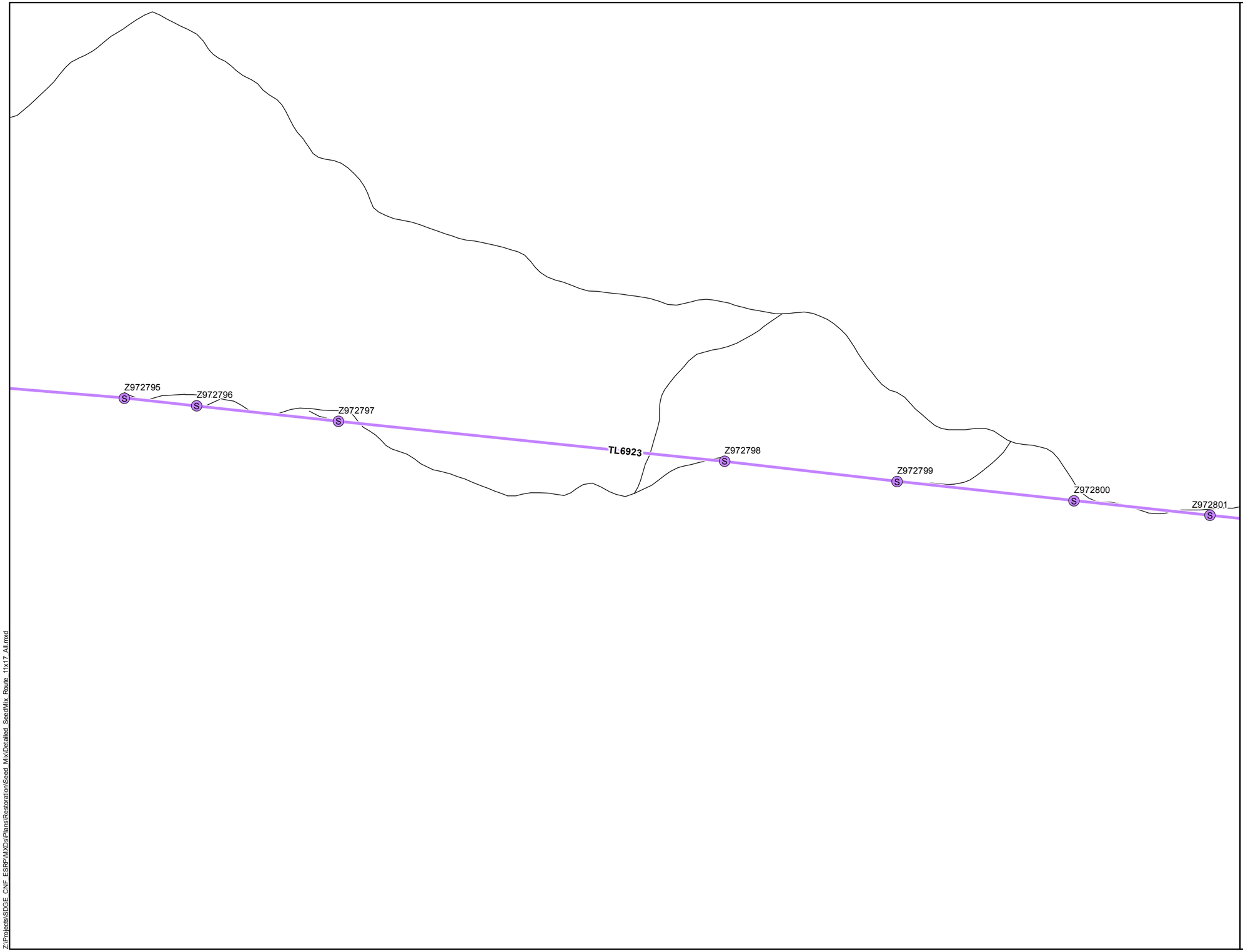

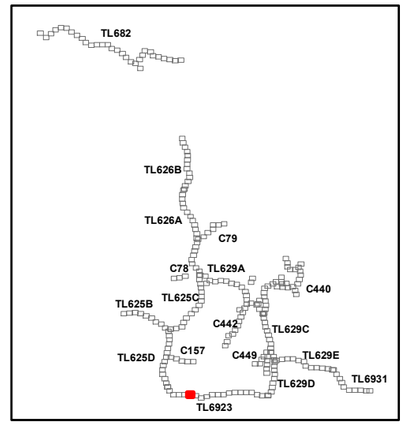

SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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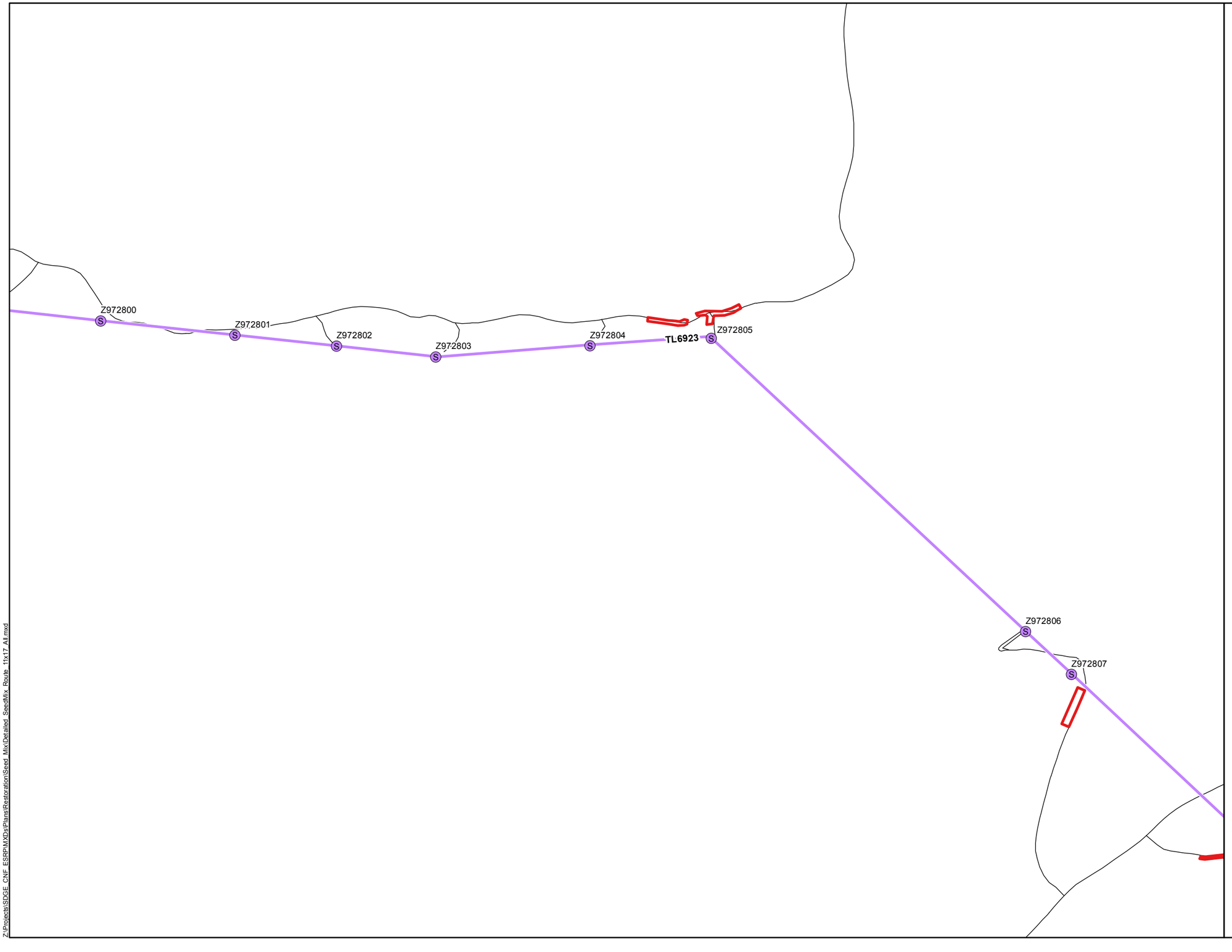
6/17/2016

Attachment B-18:
TL6923
Prescribed Seed Mix
Map 7 of 20

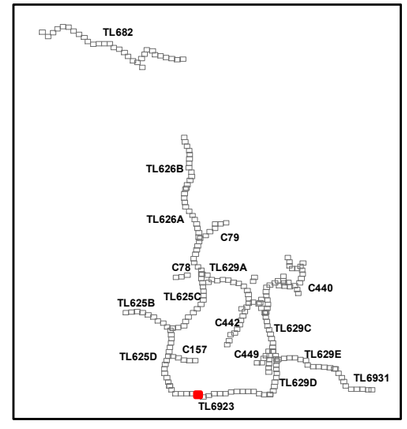
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Southern Mixed Chaparral and Scrub Oak Chaparral



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Z972806
Z972807
Z972808
TL6923
Z972809
Z972810
Z972811
Z972812
Z972813
Z972814

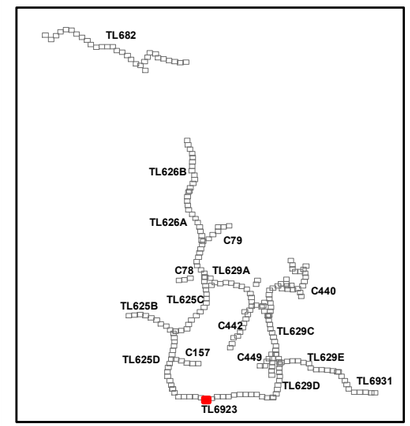
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 8 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility
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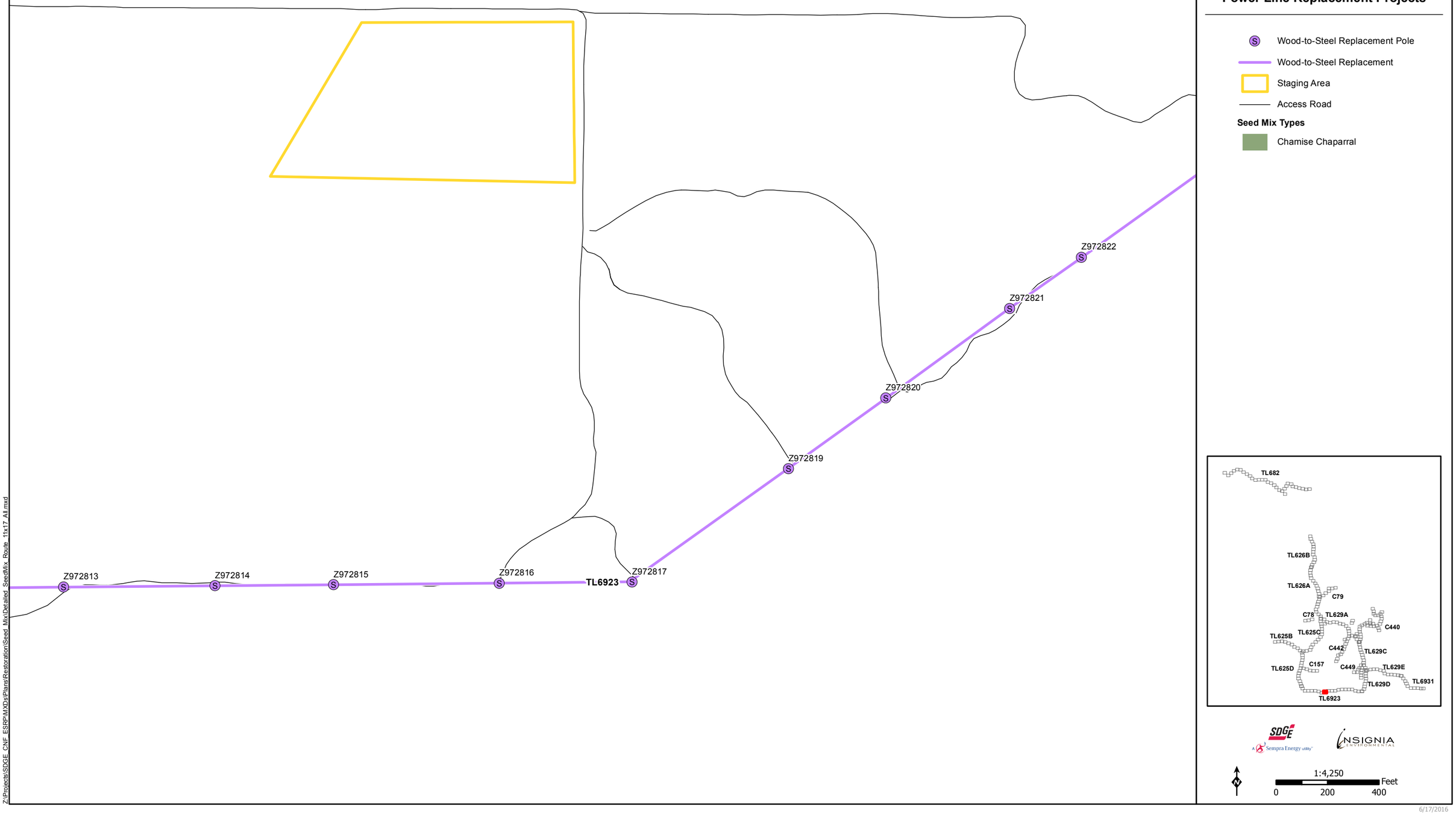
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 9 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Access Road

Seed Mix Types

- Chamise Chaparral



SDGE A Sempra Energy utility

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Attachment B-18:
TL6923
Prescribed Seed Mix
Map 10 of 20

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

No Work Planned

Wood-to-Steel Replacement

Stringing Site

Access Road

Seed Mix Types

Chamise Chaparral

Southern Mixed Chaparral and Scrub
Oak Chaparral

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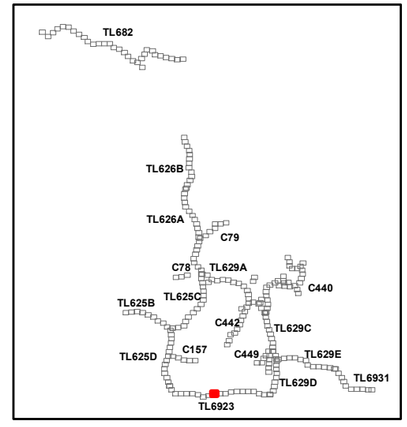
Z972825
Z972826
Z972827
Z972828
SP-1036
TL6923
Z972822
Z972821



SDGE A Sempra Energy utility

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Z972827
Z972828
SP-1036
Z972829
Z972830
TL6923
Z972831
Z972832
Z972834
Z972835

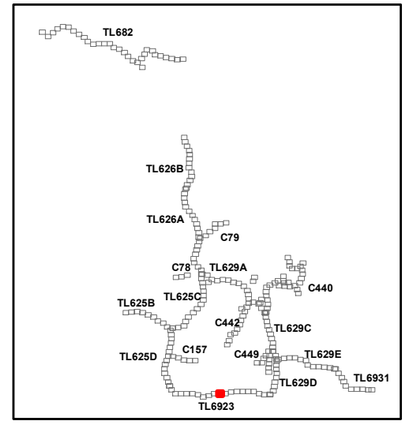
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 11 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- No Work Planned
- Wood-to-Steel Replacement
- Access Road

Seed Mix Types

- Southern Mixed Chaparral and Scrub Oak Chaparral



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment B-18:
TL6923
Prescribed Seed Mix
Map 12 of 20

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

Seed Mix Types

Coastal Sage / Chaparral

Oak Savanna, Non-Native Grassland, and Erosion Control

Southern Mixed Chaparral and Scrub Oak Chaparral

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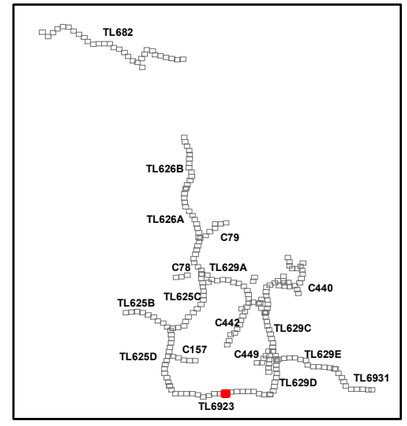

SDGE A Sempra Energy utility

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Attachment B-18:
TL6923
Prescribed Seed Mix
Map 13 of 20

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

Seed Mix Types

Coastal Sage / Chaparral

Oak Savanna, Non-Native Grassland, and Erosion Control

Southern Mixed Chaparral and Scrub Oak Chaparral

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Z972842
Z972844
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TL6923
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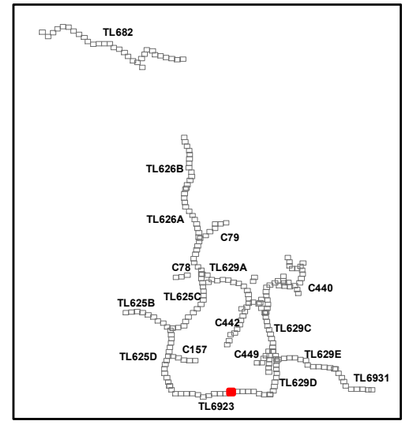
Z972854
Z972855



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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Attachment B-18:
TL6923
Prescribed Seed Mix
Map 14 of 20

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

Seed Mix Types

Southern Mixed Chaparral and Scrub Oak Chaparral

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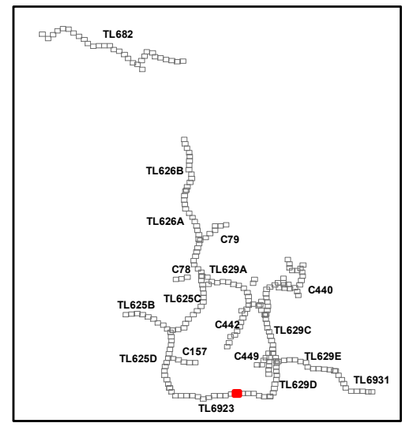
Z972856
Z972857
TL6923
Z972858
Z972859
Z972860



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Attachment B-18:
TL6923
Prescribed Seed Mix
Map 15 of 20

Cleveland National Forest
Power Line Replacement Projects

Wood-to-Steel Replacement Pole

Wood-to-Steel Replacement

Stringing Site

Access Road

Seed Mix Types

Southern Mixed Chaparral and Scrub Oak Chaparral

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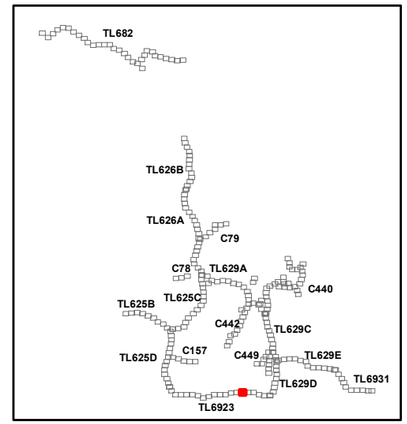

SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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6/17/2016

Attachment B-18:
TL6923
Prescribed Seed Mix
Map 16 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- No Work Planned
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Big Sage Scrub, Mixed Oak Woodland
- Diegan Coastal Sage Scrub
- Southern Mixed Chaparral and Scrub Oak Chaparral

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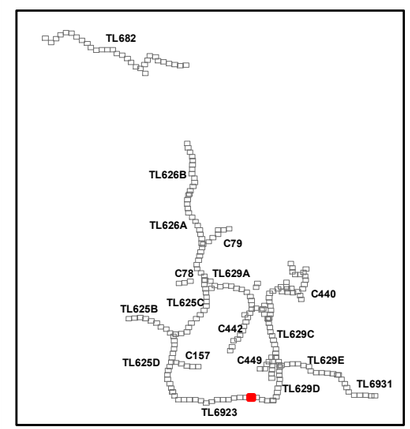

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6/17/2016

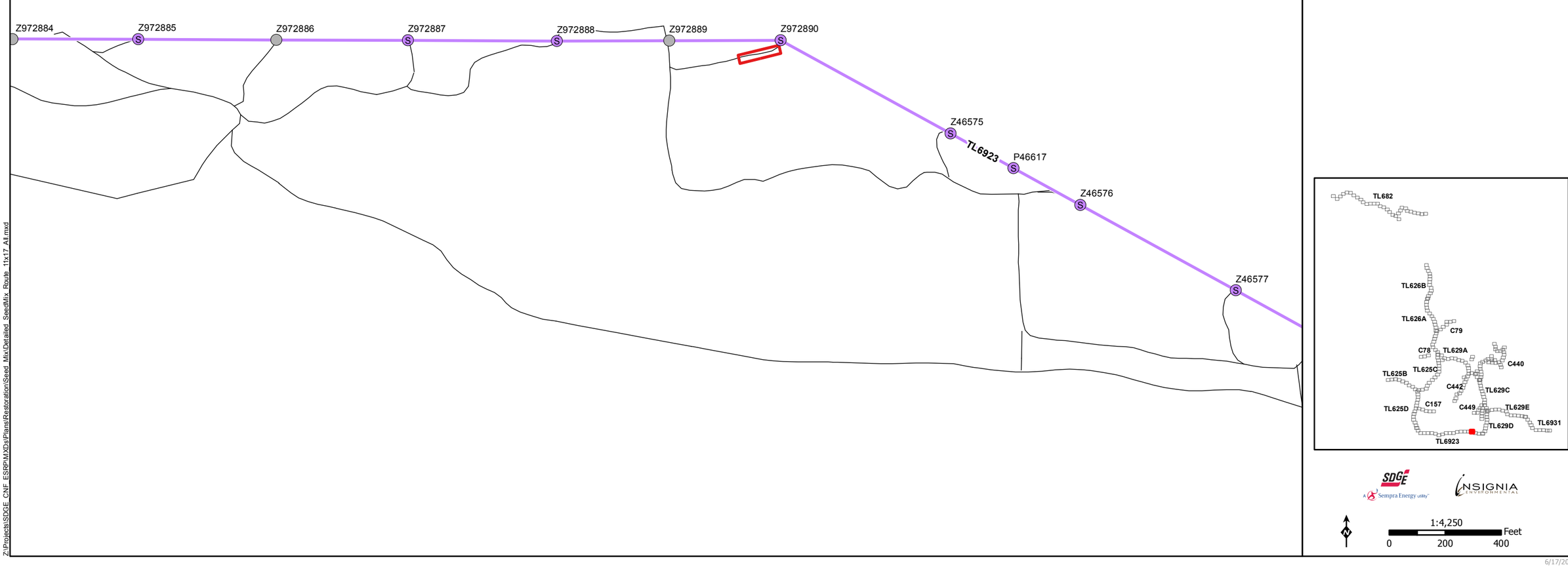
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 17 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- No Work Planned
- Wood-to-Steel Replacement
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub



SDGE A Sempra Energy utility

INSIGNIA ENVIRONMENTAL

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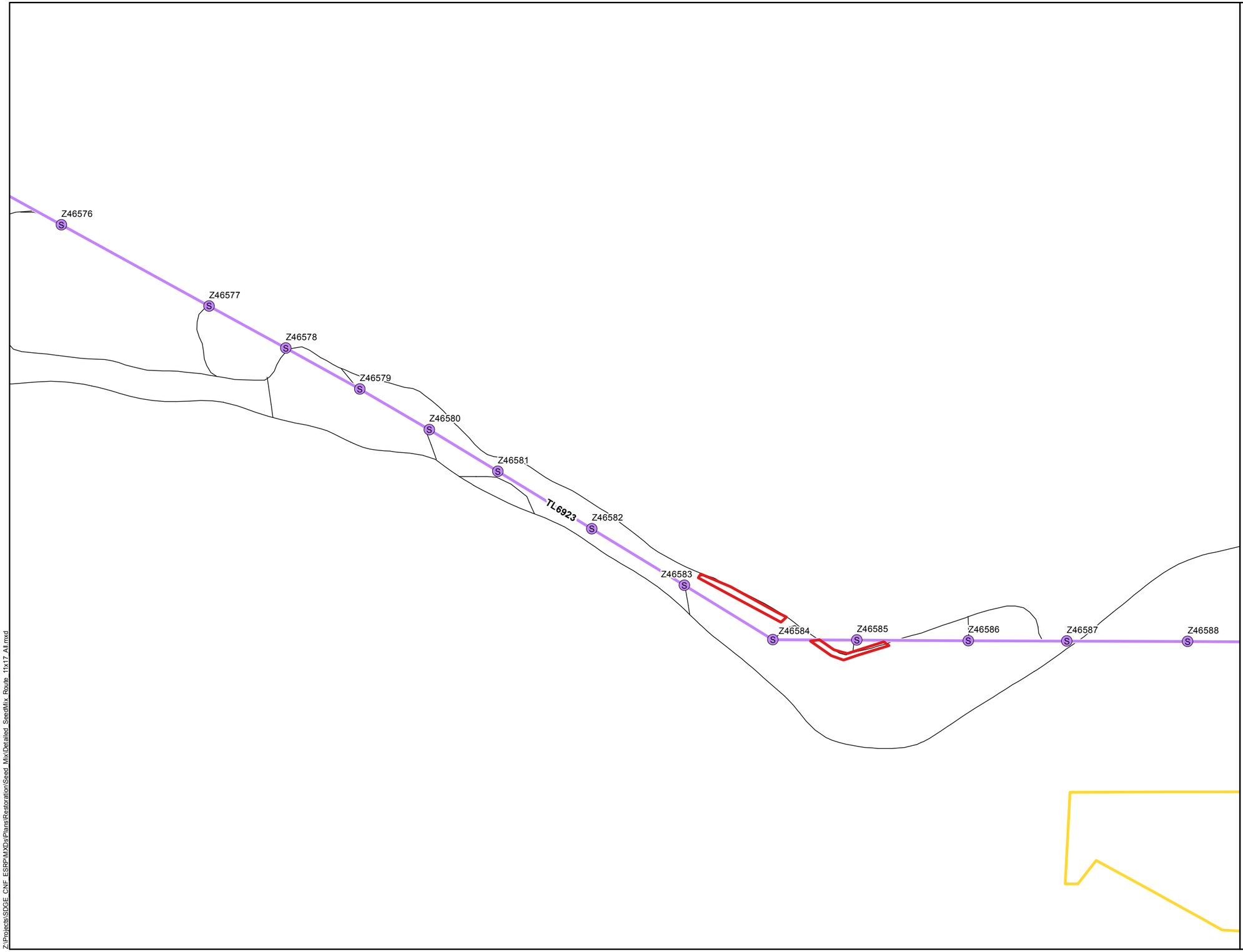
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 18 of 20

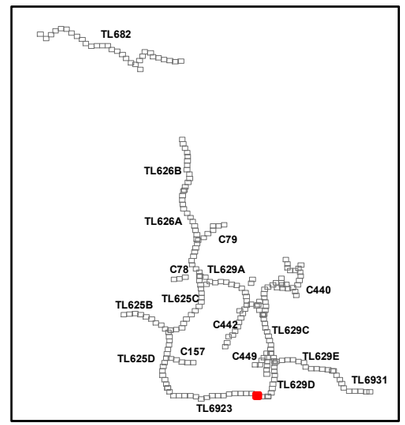
Cleveland National Forest
Power Line Replacement Projects



- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Diegan Coastal Sage Scrub
- Oak Savanna, Non-Native Grassland, and Erosion Control



SDGE A Sempra Energy utility

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Attachment B-18:
TL6923
Prescribed Seed Mix
Map 19 of 20

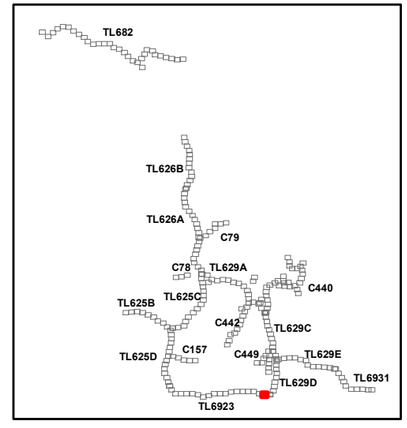
Cleveland National Forest
Power Line Replacement Projects

Z46586 Z46587 Z46588 Z46589 **TL6923** Z46590 Z46591 Z46592 Z46593 P43386 Z46594 Z46595 Z46596

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral
- Diegan Coastal Sage Scrub
- Oak Savanna, Non-Native Grassland, and Erosion Control



SDGE A Sempra Energy utility

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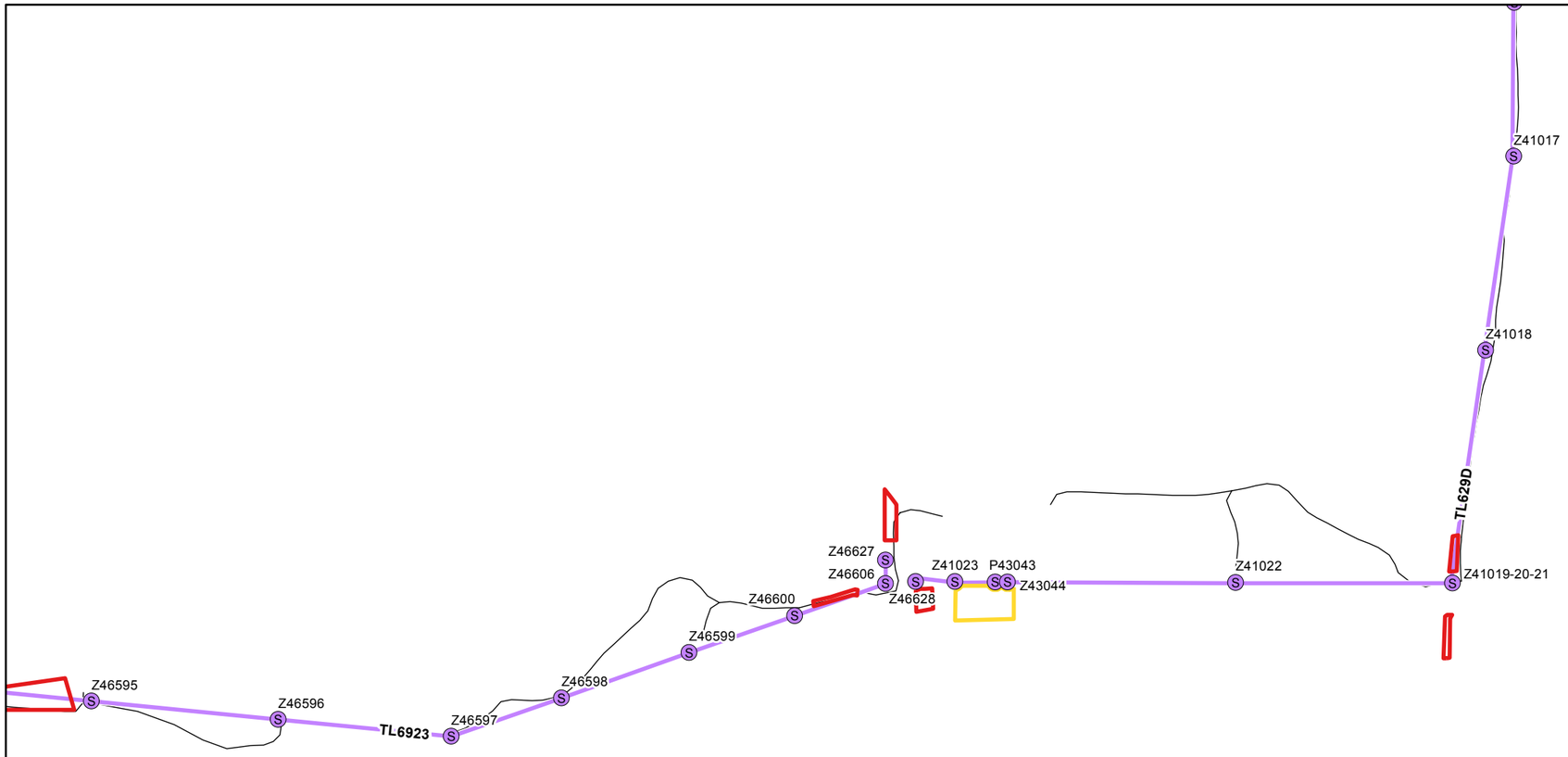


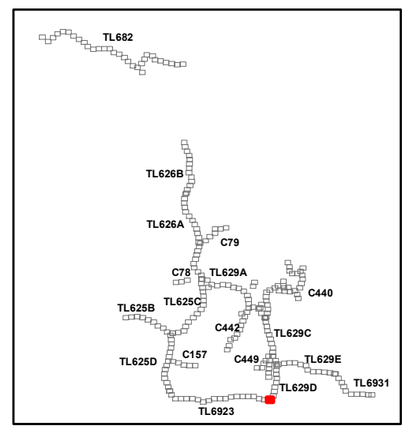
Attachment B-18:
TL6923
Prescribed Seed Mix
Map 20 of 20

Cleveland National Forest
Power Line Replacement Projects

- Wood-to-Steel Replacement Pole
- Wood-to-Steel Replacement
- Staging Area
- Stringing Site
- Access Road

Seed Mix Types

- Chamise Chaparral



SDGE A Sempra Energy utility

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ATTACHMENT C: PRESCRIBED SEED MIXES

ATTACHMENT C-1: TL625B SEED MIXES

ATTACHMENT C-1: TL625B SEED MIXES

TL625B Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.30
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Acmispon strigosus	TBD	Local, focused seed collections	66.50	1.75
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.30
Xylococcus bicolor	Lakeside	Local, focused seed collections	32.34	1.15
Total				**24.5**

TL625B Diegan Coastal Sage Scrub and Mixed Oak Woodland Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Artemisia californica	Ramona	Local, focused seed collections	18.00	1.15
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	4.70
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	1.50
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.60

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Acmispon strigosus	TBD	Local, focused seed collections	66.50	4.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	3.50
Rhamnus crocea	TBD	Local, focused seed collections	39.84	2.00
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	0.75
Total				**20.00**

TL625B Oak Savanna Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	7.30
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.25
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.25
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	2.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.50
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	0.70
Total				**20.00**

TL625B Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.75
*Ceanothus greggi**	TBD	Local, focused seed collections	68.60	0.9
*Ceanothus tomentosus**	Escondido	Local, focused seed collections	68.60	2.50
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	60	4.80
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.30
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.3	1.00
*Rhus ovata**	TBD	Local, focused seed collections	58.8	7.00
Salvia apiana	TBD	Local, focused seed collections	26.4	2.00
Xylococcus bicolor	Lakeside	Local, focused seed collections	32.34	1.00
Total				**30.00**

TL625B Native Grassland Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	2.40
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.25
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	2.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Acmispon strigosus	TBD	Local, focused seed collections	66.50	4.00
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	0.10
Stipa pulchra	Commercial	Local, focused seed collections	67.5	9.25
Total				**20.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-2: TL629E SEED MIXES

ATTACHMENT C-2: TL629E SEED MIXES

TL629E Non-Native Grassland and Temporary Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	5.00
Melica frutescens	Commercial	Local, focused seed collections	54.60	5.00
Trifolium wildenovii	Commercial	Local, focused seed collections	NA	5.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.00
Total				**20.00**

TL629E Meadow/Seep Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Artemisia dracunculus	Buckman Springs	Local, focused seed collections	5.00	0.50
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.00
Carex praegracilis	TBD	Local, focused seed collections	76.00	2.00
Juncus mexicanus	TBD	Local, focused seed collections	76.00	0.50
Leymus glauca	TBD	Local, focused seed collections	83.30	10.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.75
Muhlenbergia asperifolia	Commercial	Local, focused seed collections	24.00	0.75
Total				**20.00**

TL629E Big Sagebrush Scrub and Oak Savanna Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	8.00
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.50
Eriastrum sapphirinum ssp. *dasyanthum*	TBD	Local, focused seed collections	15.00	2.15
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	1.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.50
Lessingia glandulifera var. glandulifera	TBD	Local, focused seed collections	2.40	2.10
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	3.00
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	1.10
Total				**21.10**

TL629E Semi-Desert Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.1 0
Artemisia tridentate	TBD	Local, focused seed collections	6.50	1.5
*Ceanothus cuneatus**	TBD	Local, focused seed collections	68.60	4.60
Cercocarpus betuloides	TBD	Local, focused seed collections	35.00	4.50
Eriodictyon trichocalyx	Escondido	Local, focused seed collections	12.00	3.40

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Eriogonum fasciculatum polifolium	Ramona	Local, focused seed collections	6.00	3.30
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	2.00
Frangula californica ssp. *tomentella*	Palomar Mountain	Local, focused seed collections	56.84	4.60
Garrya veatchii	TBD	Local, focused seed collections	N/A	2.90
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	2.20
Total				**30.10**

TL629E Southern Riparian Forest Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	11.00
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.75
Baccharis salicifolia	TBD	Local, focused seed collections	2.00	0.50
Juncus mexicanus	TBD	Local, focused seed collections	76.00	0.75
Schoenoplectus acutus var. *occidentalis*	TBD	Local, focused seed collections	66.64	6.00
Total				**20.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined; [3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-3: C78 SEED MIXES

ATTACHMENT C-3: C78 SEED MIXES

C78 Diegan Coastal Sage Scrub Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.50
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	3.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.50
Deindrana fasciculata	TBD	Local, focused seed collections	16.25	1.50
Quercus x acutidens	TBD	Local, focused seed collections	NA	10.00
Rhamnus crocea	TBD	Local, focused seed collections	39.84	2.20
*Rhus ovata**	TBD	Local, focused seed collections	58.80	3.20
Salvia apiana	TBD	Local, focused seed collections	26.40	1.10
Stipa lepida	TBD	Local, focused seed collections	63.90	4.30
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	3.20
Total				**32.50**

C78 Native Grassland Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	3.00	2.10
Gutierrezia californica	Ramona	Local, focused seed collections	1.50	2.80
Deindrana fasciculata	TBD	Local, focused seed collections	4.00	2.00
Stephanomeria exigua	TBD	Local, focused seed collections	1.50	2.10
Stipa lepida	TBD	Local, focused seed collections	9.00	7.00
Total				**19.00**

C78 Non-Native Grassland and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.00
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	4.40
Eriogonum elongatum	Banning	Local, focused seed collections	10.50	3.50
Galium angustifolium	Ramona	Local, focused seed collections	25.50	2.50
Acmispon strigosus	TBD	Local, focused seed collections	66.50	5.20
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.40
Total				**20.00**

C78 Southern Mixed Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.75
Eriogonum fasciculatum fasciculatum	Ramona	Local, focused seed collections	5.00	3.40
Heteromeles arbutifolia	TBD	Local, focused seed collections	57.00	4.90
Lasthenia gracilis	Commercial	Local, focused seed collections	NA	0.75
Acmispon strigosus	TBD	Local, focused seed collections	66.50	3.70
Rhamnus crocea	TBD	Local, focused seed collections	39.84	4.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	6.75
Salvia apiana	TBD	Local, focused seed collections	26.40	2.60
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	2.40
Total				**30.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-4: TL682 SEED MIXES

ATTACHMENT C-4: TL682 SEED MIXES

TL682 Big Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland Seed Mix (East of East Grade Road)

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Acmispon glaber	TBD	Local, focused seed collections	76.00	0.50
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.25
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.10
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	2.25
Galium angustifolium	TBD	Local, focused seed collections	25.50	0.50
Hazardia squarrosa	Ramona	Local, focused seed collections	2.0	0.10
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	3.00
Lasthenia gracilis	Commercial	Local, focused seed collections	38.50	1.05
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.00
Stipa pulchra	Commercial	Local, focused seed collections	67.50	6.00
Total				**20.00**

TL682 Chamise Chaparral

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.50
*Ceanothus greggii**	TBD	Local, focused seed collections	NA	2.00
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	2.60
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.50
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	9.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.30
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	0.20
Quercus berberidifolia	TBD	Local, focused seed collections	NA	2.90
Total				**30.00**

TL682 Coastal Sage/Chaparral Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Acmispon glaber	TBD	Local, focused seed collections	76.00	1.50
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.50
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.75
*Ceanothus crassifolius**	TBD	Local, focused seed collections	68.60	1.80
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	3.00
Eriophyllum confertiflorum var. confertiflorum	TBD	Local, focused seed collections	22.32	1.25
Galium angustifolium	Ramona	Local, focused seed collections	25.50	1.00
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	1.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	4.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	4.50
*Rhamnus ilicifolia**	TBD	Local, focused seed collections	45.58	3.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.50
Stipa lepida	TBD	Local, focused seed collections	63.90	3.00
Total				**30.00**

TL682 Coast Live Oak Woodland, Mixed Oak Woodland Seed Mix (West of East Grade Road)

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[4] (Pounds per Acre)
Acmispon glaber	TBD	Local, focused seed collections	76.00	1.40
Cercocarpus betuloides	TBD	Local, focused seed collections	35.00	5.00
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	2.00
Eriophyllum confertiflorum var. confertiflorum	TBD	Local, focused seed collections	22.32	1.00
Galium angustifolium	Ramona	Local, focused seed collections	25.50	1.00
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	1.10
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	3.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.0
Quercus berberidifolia	TBD	Local, focused seed collections	N/A	6.00
Marah macrocarpa	TBD	Local, focused seed collections	78.40	1.00
Mirabilis laevis var. crassifolia	TBD	Local, focused seed collections	53.01	2.00
*Rhamnus ilicifolia**	TBD	Local, focused seed collections	45.58	2.50
Salvia apiana	TBD	Local, focused seed collections	26.40	2.50
Melica imperfecta	TBD	Local, focused seed collections	60.30	2.50
Total				**33.50**

TL682 Native Grassland Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	2.10
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	2.0
Eriogonum elongatum	Banning	Local, focused seed collections	10.50	2.90
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.00
Stipa pulchra	Commercial	Local, focused seed collections	67.50	8.00
Total				**20.00**

TL682 Non-Native Grassland and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.4	2.60
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	3.00
Eriogonum elongatum	Banning	Local, focused seed collections	10.5	3.50
Galium angustifolium	Ramona	Local, focused seed collections	25.5	1.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.3	5.20
Trifolium wildenovii	Commercial	Local, focused seed collections	NA	4.20
Total				**20.00**

TL682 Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Acmispon glaber	TBD	Local, focused seed collections	76.00	1.50
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.50
Cercocarpus betuloides	TBD	Local, focused seed collections	35.00	4.50
*Ceanothus crassifolius**	TBD	Local, focused seed collections	68.60	2.50
Eriogonum fasciculatum var. fasciculatum	Ramona	Local, focused seed collections	5.00	2.00
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	4.00
Helianthus gracilentus	TBD	Local, focused seed collections	13.75	1.50
Lonicera subspicata var. denudata	TBD	Local, focused seed collections	58.90	1.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.50
*Arctostaphylos glandulosa adamsii**	TBD	Local, focused seed collections	57.00	5.00
Total				**25.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-5: C79A SEED MIXES

ATTACHMENT C-5: C79 SEED MIXES

C79 Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.30
Helianthus gracilentus	TBD	Local, focused seed collections	13.75	1.50
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	1.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.25
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.30
Total				**25.00**

C79 Montane Forest, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	6.00
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.30
Eriogonum wrightii var. *membranaceum*	TBD	Local, focused seed collections	11.00	3.60
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.40
Leptosiphon floribundus subsp. *glaber*	TBD	Local, focused seed collections	76.00	4.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	3.70
Sidalcea sparsifolia	TBD	Local, focused seed collections	N/A	3.00
Poa secunda	TBD	Local, focused seed collections	52.92	4.00
Total				**29.00**

C79 Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
Helianthus gracilentus	TBD	Local, focused seed collections	13.75	2.50
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	1.50

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.35
Eriophyllum confertiflorum var. *confertiflorum*	TBD	Local, focused seed collections	22.32	0.25
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Rhamnus crocea	TBD	Local, focused seed collections	39.84	3.00
Total				**27.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-6: TL6931 SEED MIXES

ATTACHMENT C-6: TL6931 SEED MIXES

TL6931 Coastal Sage/Chaparral Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.50
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	2.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.0	2.55
Eriodictyon trichocalyx	Escondido	Local, focused seed collections	12.00	3.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	4.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.50
*Malosma laurina**	Commercial	Local, focused seed collections	60.76	1.00
Rhamnus crocea	TBD	Local, focused seed collections	39.84	3.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	4.00
Total				**25.00**

TL6931 Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	7.25
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.25
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	3.00
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	2.25
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.55
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	3.20
Total				**25.00**

TL6931 Semi-Desert Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.90
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.50
*Ceanothus cuneatus**	TBD	Local, focused seed collections	68.60	3.60
Cercocarpus betuloides	TBD	Local, focused seed collections	35.00	3.80
Eriodictyon trichocalyx	Escondido	Local, focused seed collections	12.00	4.90
Eriogonum fasciculatum polifolium	Ramona	Local, focused seed collections	6.00	6.60

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	1.70
Frangula californica ssp. *tomentella*	Palomar Mountain	Local, focused seed collections	56.84	3.60
Garrya veatchii	TBD	Local, focused seed collections	N/A	1.90
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.50
Total				**30.00**

TL6931 Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.75
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	1.50
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.75
Eriophyllum confertiflorum var. *confertiflorum*	TBD	Local, focused seed collections	22.32	0.25
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.55
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Rhus ovata**	TBD	Local, focused seed collections	58.8	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.00
Total				**25.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-7: C157 SEED MIXES

ATTACHMENT C-7: C157 SEED MIXES

C157 Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.30
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.30
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	1.25
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	0.50
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.50
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	1.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.25
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.30
Total				**27.60**

C157 Diegan Coastal Sage Scrub Seed Mix, Coast Live Oak Woodland, and Mixed Oak Woodland

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.30
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	3.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.50
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	3.00
*Rhamnus ilicifolia**	TBD	Local, focused seed collections	45.58	6.00
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	1.00
Total				**22.05**

C157 Coastal Sage/Chaparral Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.50
*Ceanothus perplexans**	TBD	Local, focused seed collections	NA	1.75
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	1.50

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	2.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	4.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	1.00
Rhamnus crocea	TBD	Local, focused seed collections	39.84	2.00
Rhus ovata	TBD	Local, focused seed collections	58.80	4.00
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	1.00
Total				**19.75**

C157 Oak Savanna, Native Grassland, Non-Native Grassland, Coast Live Oak Riparian, Southern Riparian Forest, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	8.00
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	2.25
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	2.0
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	1.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.50

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Muhlenbergia rigens	TBD	Local, focused seed collections	31.50	0.25
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	1.00
Total				**20.00**

C157 Southern Mixed Chaparral, Semi-Desert Chaparral, and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
*Prunus ilicifolia**	TBD	Local, focused seed collections	45.00	10.00
*Ceanothus perplexans**	TBD	Local, focused seed collections	NA	1.50
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	3.10
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.00
Eriophyllum confertiflorum var. *confertiflorum*	TBD	Local, focused seed collections	22.32	.50
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	7.00

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Salvia apiana	TBD	Local, focused seed collections	26.40	1.00
Total				**33.50**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-8: C442 SEED MIXES

ATTACHMENT C-8: C442 SEED MIXES

C442 Big Sage Scrub, Mixed Oak Woodland and Coast Live Oak Woodland Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Arctostaphylos pungens**	TBD	Local, focused seed collections	57.00	1.5
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.20
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	1.00
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	4.00
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	5.50
Lasthenia gracilis	Commercial	Local, focused seed collections	38.50	0.30
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.00
Melica imperfecta	TBD	Local, focused seed collections	60.30	4.00
Total				**21.50**

C442 Chamise Chaparral Seed Mix[1]

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.75
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.25
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.75

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.50
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.75
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.30
Total				**25.75**

C442 Meadow/Seep Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Artemisia dracunculus	Buckman Springs	Local, focused seed collections	5.00	0.50
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.00
Carex praegracilis	TBD	Local, focused seed collections	76.00	2.00
Leymus glauca	TBD	Local, focused seed collections	83.30	10.50
Juncus mexicanus	TBD	Local, focused seed collections	76.00	0.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.75
Muhlenbergia asperifolia	Commercial	Local, focused seed collections	24.00	0.75
Total				**20.00**

C442 Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	8.00
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	2.30
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	2.00
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	1.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.50
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	1.00
Total				**20.80**

C442 Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.75
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.20
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	6.00
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	4.10
Eriodictyon trichocalyx	Escondido	Local, focused seed collections	12.00	2.50

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.25
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	1.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	4.00
Total				**30.00**

Seed Mix Notes:

[1] Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.

[2] Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.

[3] For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.

[4] Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.

[5] The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.

* Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-9: C440 SEED MIXES

ATTACHMENT C-9: C440 SEED MIXES

C440 Big Sage Scrub

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.50
Artemisia tridentata	TBD	Local, focused seed collections	6.50	0.75
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	2.10
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	3.00
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
Lasthenia gracilis	Commercial	Local, focused seed collections	NA	0.75
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.00
Stipa pulchra	Commercial	Local, focused seed collections	67.50	6.00
Total				**25.10**

C440 Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collection	17.00	1.75
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.75

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.75
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.30
Total				**25.00**

C440 Big Sage Scrub / Chaparral Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia tridentata	TBD	Local, focused seed collections	6.50	0.75
*Ceanothus perplexans**	TBD	Local, focused seed collections	NA	1.75
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.50
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	2.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	4.00
Keckiella antirrhinoides	Banning	Local, focused seed collections	30.00	0.50

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Arctostaphylos glandulosa adamsii**	TBD	Local, focused seed collections	NA	8.00
Cercocarpus betuloides betuloides	TBD	Local, focused seed collections	35.00	4.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.00
Total				**27.50**

C440 Montane Forest, Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	3.70
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.30
Eriogonum wrightii var. *membranaceum*	TBD	Local, focused seed collections	NA	3.60
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Leptosiphon floribundus subsp. *glaber*	TBD	Local, focused seed collections	NA	2.00
Lupinus excubitus austromontana	TBD	Local, focused seed collections	NA	3.70
Sidalcea sparsifolia	TBD	Local, focused seed collections	NA	3.00
Bromus carinatus	TBD	Local, focused seed collections	85.50	4.00
Stipa lemmonii	TBD	Local, focused seed collections	NA	4.70
Total				**29.00**

C440 Montane Wet Meadow Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Achillea millefolium	TBD	Local, focused seed collections	83.30	0.75
Carex praegracilis	TBD	Local, focused seed collections	76.00	2.00
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	1.10
Stipa lemmonii	TBD	Local, focused seed collections	NA	3.50
Juncus mexicanus	TBD	Local, focused seed collections	NA	0.40
Leymus glauca	TBD	Local, focused seed collections	83.30	3.75
Poa secunda	TBD	Local, focused seed collections	52.92	4.00
Ranunculus californicus	TBD	Local, focused seed collections	NA	3.50
Sidalcea sparsifolia	TBD	Local, focused seed collections	NA	1.00
Total				**20.00**

C440 Montane Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
*Arctostaphylos glandulosa adamsii**	TBD	Local, focused seed collections	NA	8.00
*Ceanothus palmeri**	TBD	Local, focused seed collections	NA	1.75
*Ceanothus perplexans**	TBD	Local, focused seed collections	NA	1.75

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Cercocarpus betuloides var. *betuloides*	TBD	Local, focused seed collections	35.00	2.75
Eriogonum fasciculatum var polifolium	Ramona	Local, focused seed collections	6.00	3.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	1.30
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	7.00
Total				**34.50**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-10: TL626 SEED MIXES

ATTACHMENT C-10: TL626A SEED MIXES

TL626A Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.30
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.75
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	1.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	4.70
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.25
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	1.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	3.25
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.30
Total				**30.00**

TL626A Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Acmispon glaber	TBD	Local, focused seed collections	76.00	1.40
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.75
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	2.00
Eriophyllum confertiflorum var. *confertiflorum*	TBD	Local, focused seed collections	22.32	1.50
Galium angustifolium	Ramona	Local, focused seed collections	25.50	1.50
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	1.10
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	3.00
*Arctostaphylos pungens**	TBD	Local, focused seed collections	57.00	1.75
Marah macrocarpa	TBD	Local, focused seed collections	78.40	2.00
Mirabilis laevis var. *crassifolia*	TBD	Local, focused seed collections	53.01	2.00
*Rhamnus ilicifolia**	TBD	Local, focused seed collections	45.58	2.50
Salvia apiana	TBD	Local, focused seed collections	26.40	2.50
Stipa lepida	TBD	Local, focused seed collections	63.90	3.00
Total				**25.00**

TL626A Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.20
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	4.00
Eriogonum elongatum	Banning	Local, focused seed collections	10.50	3.50
Galium angustifolium	Ramona	Local, focused seed collections	25.50	3.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	3.70
Total				**17.90**

TL626A Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
*Arctostaphylos pungens**	TBD	Local, focused seed collections	57.00	6.25
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	1.50
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.00
Eriophyllum confertiflorum var. confertiflorum	TBD	Local, focused seed collections	22.32	0.25
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.50

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.25
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.25
Total				**30.00**

TL626A Southern Riparian Forest/Riparian Scrub Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	8.00
Artemisia dracunculus	Buckman Springs	Local, focused seed collections	5.00	0.75
Artemisia ludoviciana ssp. *incompta*	TBD	Local, focused seed collections	6.00	2.00
Salix lasiolepis	TBD	Local, focused seed collections	NA	6.00
Juncus mexicanus	TBD	Local, focused seed collections	76.00	2.00
Rosa californica	TBD	Local, focused seed collections	45.05	6.25
Total				**25.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-11: C449 SEED MIXES

ATTACHMENT C-11: C449 SEED MIXES

C449 Big Sage Scrub and Mixed Oak Woodland Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Artemisia tridentata	TBD	Local, focused seed collections	6.50	0.75
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	2.10
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	3.00
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.40
Lasthenia gracilis	Commercial	Local, focused seed collections	38.50	0.75
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.00
Melica imperfecta	TBD	Local, focused seed collections	60.30	6.00
Total				**25.00**

C449 Chamise Chaparral Seed Mix

Species[1]	Commercial Sources[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.75
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.75
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	1.80

Species[1]	Commercial Sources[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.75
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.30
Total				**25.00**

C449 Coastal Sage[1]/Chaparral Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.25
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.00
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.50
Eriodictyon trichocalyx	Escondido	Local, focused seed collections	12.00	4.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.75
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	6.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	3.00

[1] The coastal sage/chaparral mix stands observed in C449 are actually co-dominated by big sagebrush (*Artemisia tridentata*) and chamise (*Adenostoma fasciculata*).

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Rhus ovata**	TBD	Local, focused seed collections	58.80	3.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.50
Total				**24.75**

C449 Meadow/Seep and Southern Willow Scrub Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Artemisia dracunculus	Buckman Springs	Local, focused seed collections	5.00	0.75
Artemisia tridentata	TBD local collection	Local, focused seed collections	6.50	1.25
Carex praegracilis	TBD	Local, focused seed collections	76.00	2.00
Leymus glauca	TBD	Local, focused seed collections	83.30	11.00
Juncus mexicanus	TBD	Local, focused seed collections	76.00	0.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.25
Muhlenbergia asperifolia	Commercial	Local, focused seed collections	24.00	0.75
Total				**21.50**

C449 Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	8.0
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	2.30
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	2.00
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	1.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.50
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	1.00
Total				**20.80**

C449 Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.75
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.2
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	4.10
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	4.10
Eriodictyon trichocalyx	Escondido	Local, focused seed collections	12.00	2.50
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	3.00
Total				**25.05**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-12: TL625D SEED MIXES

ATTACHMENT C-12: TL625D SEED MIXES

TL625D Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed[4] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.30
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.70
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.50
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.50
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.25
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	6.00
Acmispon strigosus	TBD	Local, focused seed collections	66.50	2.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.50
Total				**24.00**

TL625D Diegan Coastal Sage Scrub Seed Mix, Coast Live Oak Woodland, and Mixed Oak Woodland

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed (Pounds per Acre)
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.50
Eriodictyon crassifolium var.	Banning	Local, focused seed collection	21.20	3.50

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed (Pounds per Acre)
crassifolium				
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	4.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Acmispon strigosus	TBD	Local, focused seed collections	66.50	3.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	1.00
Rhamnus crocea	TBD	Local, focused seed collections	39.84	5.00
Total				**18.00**

TL625D Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed[4] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	3.50
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	2.00
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	2.00
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	2.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	6.00
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	3.50
Total				**20.00**

TL625D Coastal Sage / Chaparral Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed [4] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.50
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	1.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.00
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	3.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.75
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	3.75
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.00
Rhamnus crocea	TBD	Local, focused seed collections	39.84	3.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	2.50
Total				**20.00**

TL 625D Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed[4] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
Arctostaphylos glandulosa adamsii	Ramona	Local, focused seed collections	NA	8.00
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	4.00

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed[4] (Pounds per Acre)
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.50
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	1.50
Eriophyllum confertiflorum var. *confertiflorum*	TBD	Local, focused seed collections	22.32	0. 50
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.50
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.25
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	5.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Rhamnus crocea	TBD	Local, focused seed collections	39.84	4.00
Salvia clevelandii	TBD	Local, focused seed collections	14.57	0.25
Total				**33.25**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-13: TL629A SEED MIXES

ATTACHMENT C-13: TL629A SEED MIXES

TL629A Big Sage Scrub

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.50
Artemisia tridentata	TBD	Local, focused seed collections	6.50	0.75
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	1.10
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	3.00
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
Lasthenia gracilis	Commercial	Local, focused seed collections	38.50	0.75
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.00
Stipa lepida	TBD	Local, focused seed collections	63.90	6.00
Total				**25.10**

TL629A Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	6.00
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.30
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	3.00
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	2.00

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	6.00
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	3.20
Total				**25.00**

TL629A Diegan Coastal Sage Scrub Seed Mix, Coast Live Oak Woodland, and Mixed Oak Woodland

Species[1]	CommercialSource[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.50
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	3.75
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.3
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	2.2
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	5
*Rhus ovata**	TBD	Local, focused seed collections	58.80	6.00
Muhlenbergia rigens	Commercial	Local, focused seed collections	31.50	1.5
Trichostema parishii	TBD	Local, focused seed collections	32.25	2.75
Total				**28.00**

TL629A Southern Riparian Forest/Riparian Scrub Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	8.00
Artemisia dracunculus	Buckman Springs	Local, focused seed collections	5.00	0.75
Artemisia ludoviciana ssp. incompta	TBD	Local, focused seed collections	6.00	2.00
Salix lasiolepis	TBD	Local, focused seed collections	NA	6.00
Juncus mexicanus	TBD	Local, focused seed collections	76.00	2.00
Rosa californica	TBD	Local, focused seed collections	45.05	6.25
Total				**25.00**

TL629A Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.75
Artemisia tridentata	TBD	Local, focused seed collections	6.50	0.75
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	1.75
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.80
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	5.00

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.75
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.00
Total				**25.00**

TL629A Redshank Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma sparsifolium**	Jacumba	Local, focused seed collections	7.50	0.50
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	1.00
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.60
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	2.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.50
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.90
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Salvia apiana	TBD	Local, focused seed collections	26.40	4.00
Total				**21.25**

TL629A Coastal Sage/Chaparral Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.25
*Ceanothus cuneatus**	TBD	Local, focused seed collections	68.60	3.00
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.50
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	3.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.25
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	4.00
Keckiella antirrhinoides	Banning	Local, focused seed collections	30.00	2.75
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.00
*Prunus ilicifolia**	TBD	Local, focused seed collections	17.00	0.25
Salvia apiana	TBD	Local, focused seed collections	6.50	1.25
Total				**30.00**

TL629A Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
*Ceanothus leucodermis**	TBD	Local, focused seed collections	68.60	1.25

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Cercocarpus betuloides var. *betuloides*	Boulevard	Local, focused seed collections	35.00	2.00
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	1.85
Eriodictyon crassifolium var. crassifolium	Banning	Local, focused seed collections	21.20	2.5
*Rhus ovata**	TBD	Local, focused seed collections	58.80	6.5
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Penstemon centranthifolius	TBD	Local, focused seed collections	59.34	1.00
Quercus x acutidens	TBD	Local, focused seed collections	N/A	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.75
Total				**34.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-14: TL626B SEED MIXES

ATTACHMENT C-14: TL626B SEED MIXES

TL626B Coastal Sage/Chaparral Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia californica	Ramona	Local, focused seed collections	18.00	1.00
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	2.75
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	6.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.75
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	4.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.00
Rhamnus crocea	TBD	Local, focused seed collections	39.84	2.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	2.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.75
Total				**22.50**

TL626B Oak Savanna, Coast Live Oak Riparian Forest, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	4.20
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	3.00

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Eriogonum elongatum	Banning	Local, focused seed collections	10.50	3.10
Galium angustifolium	Ramona	Local, focused seed collections	25.50	3.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.20
Stipa pulchra	Commercial	Local, focused seed collections	67.50	6.00
Total				**25.00**

TL626B Native Grassland and Meadow/Seep[1] Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.20
Eriogonum elongatum	Banning	Local, focused seed collections	10.50	3.1
Galium angustifolium	Ramona	Local, focused seed collections	25.50	4.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.20
Sidalcea sparsifolia	TBD	Local, focused seed collections	N/A	3.00
Stipa pulchra	Commercial	Local, focused seed collections	67.50	6.00
Total				**25.00**

[1] The meadow/seep areas on TL626B were dominated by native and non-native grasses and Mexican rush (*Juncus mexicanus*). Mexican rush was present at low cover of one- to five-percent absolute cover.

TL626B Native Grassland and Meadow/Seep[2] Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.20
Eriogonum elongatum	Banning	Local, focused seed collections	10.50	3.1
Galium angustifolium	Ramona	Local, focused seed collections	25.50	4.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.20
Sidalcea sparsifolia	TBD	Local, focused seed collections	N/A	3.00
Stipa pulchra	Commercial	Local, focused seed collections	67.50	6.00
Total				**25.00**

TL626B Diegan Coastal Sage Scrub, Coast Live Oak Woodland, Mixed Oak Woodland Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Acmispon glaber	TBD	Local, focused seed collections	76.00	2.40
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.75
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	6.00
Eriophyllum confertiflorum var. *confertiflorum*	TBD	Local, focused seed collections	22.32	1.00
Galium angustifolium	Ramona	Local, focused seed collections	25.50	1.50

[2] The meadow/seep areas on TL626B were dominated by native and non-native grasses and Mexican rush (*Juncus mexicanus*). Mexican rush was present at low cover of one- to five-percent absolute cover.

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	1.10
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	3.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	1.00
Marah macrocarpa	TBD	Local, focused seed collections	78.40	1.25
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	1.50
*Rhamnus ilicifolia**	TBD	Local, focused seed collections	45.58	1.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.25
Stipa pulchra	Commercial	Local, focused seed collections	67.50	2.25
Total				**25.00**

TL626B Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
*Arctostaphylos glandulosa adamsii**	TBD	Local, focused seed collections	57.00	8.00
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	1.50
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var.	Ramona	Local, focused seed collections	6.00	2.35

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
polifolium				
Eriophyllum confertiflorum var. *confertiflorum*	TBD	Local, focused seed collections	22.32	0.25
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
*Prunus ilicifolia**	TBD	Local, focused seed collections	45.00	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.00
Total				**30.50**

TL626B Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	Ramona	Local, focused seed collections	17.00	1.30
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.75
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.45
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.50
Hazardia squarrosa	Alpine	Local, focused seed collections	2.00	1.20
Hesperoyucca whipplei	Commercial	Local, focused seed collections	73.87	7.00

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Lupinus bicolor	TBD	Local, focused seed collections	83.30	2.25
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	Ramona	Local, focused seed collections	26.40	1.30
Total				**23.70**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-15: TL629C SEED MIXES

ATTACHMENT C-15: TL629C SEED MIXES

TL 629C Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed[4] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	3.00
*Ceanothus cuneatus**	TBD	Local, focused seed collections	68.60	3.00
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	1.50
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.50
Eriodictyon crassifolium var. crassifolium	Banning	Local, focused seed collections	21.20	1.50
Eriodictyon trichocalyx	Escondido	Local, focused seed collections	12.00	1.50
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.5
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	5.00
Prunus ilicifolia	TBD	Local, focused seed collections	45.00	2.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	7.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.00
*Arctostaphylos glandulosa adamsii**	TBD	Local, focused seed collections	NA	8.00
Brickellia californica	TBD	Local, focused seed collections	2.5	0.5
Total				**37.20**

TL 629C Big Sage Scrub

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed[4] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.00
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	1.10
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	3.00
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.50
Lasthenia gracilis	Commercial	Local, focused seed collections	38.50	0.74
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.00
Stipa pulchra	Commercial	Local, focused seed collections	67.50	6.40
Total				**25.00**

TL 629C Coastal Sage / Chaparral Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed[4] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia tridentate	TBD	Local, focused seed collections	6.50	1.25
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	1.75
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.50
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	3.75

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed[4] (Pounds per Acre)
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.75
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	6.00
Keckiella antirrhinoides	Banning	Local, focused seed collections	30.00	0.75
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.00
*Malosma laurina**	Poway	Local, focused seed collections	60.76	3.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.00
Total				**25.00**

TL629C Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed[3] (Pounds per Acre)
Ambrosia acanthicarpa	TBD	Local, focused seed collections	42.5	4.00
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.30
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	3.0
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	2.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.20
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.50
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	2.00
Total				**21.00**

TL629C Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent	Suggested Pure Live Seed[4] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.75
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.80	2.75
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.30
Total				**25.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-16: TL629D SEED MIXES

ATTACHMENT C-16: TL629D SEED MIXES

TL629D Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	9.00
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.30
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	3.00
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	1.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.75
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.50
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	1.70
Total				**25.00**

TL629D Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.75
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.25
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.30
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.3	2.75
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.30
Total				**25.00**

C629D Meadow/Seep and Southern Willow Scrub Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Artemisia dracunculus	Buckman Springs	Local, focused seed collections	5.00	0.75
Artemisia tridentata	TBD	Local, focused seed collections	6.50	2.00
Carex praegracilis	TBD	Local, focused seed collections	76.00	5.00
Juncus mexicanus	TBD	Local, focused seed collections	76.00	0.50
Leymus glauca	TBD	Local, focused seed collections	83.30	10.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.25
Muhlenbergia asperifolia	Commercial	Local, focused seed collections	24.00	1.00
Total				**25.00**

TL629D Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.75
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.25
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	4.00
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.10
Eriodictyon trichocalyx	Escondido	Local, focused seed collections	12.00	3.50
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	3.00
Total				**25.00**

TL629D Big Sage Scrub and Coast Live Oak Woodland Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.40
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	1.10
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	3.00

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
Lasthenia gracilis	Commercial	Local, focused seed collections	38.50	1.25
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	5.00
Stipa pulchra	Commercial	Local, focused seed collections	67.50	5.00
Total				**25.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-17: TL625C SEED MIXES

ATTACHMENT C-17: TL625C SEED MIXES

TL625C Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.30
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.50
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	3.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	1.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.25
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.30
Total				**25.00**

TL625C Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
*Prunus ilicifolia**	TBD	Local, focused seed collections	45.00	8.00
*Ceanothus perplexans**	TBD	Local, focused seed collections	NA	1.50
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.25
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.35
Eriophyllum confertiflorum var. confertiflorum	TBD	Local, focused seed collections	22.32	0.25
Gutierrezia californica	Ramona		2.50	0.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	8.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.00
Total				**30.50**

TL625C Diegan Coastal Sage Scrub Seed Mix, Coast Live Oak Woodland, and Mixed Oak Woodland

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Artemisia californica	Ramona	Local, focused seed collections	18.00	0.30
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	4.75
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	4.55
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	5.00
Cercocarpus betuloides	TBD	Local, focused seed collections	35.00	5.40
Total				**25.00**

TL625C Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	8.50
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	3.75
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	2.50
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	2.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.75

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.50
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	2.00
Total				**25.00**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.

ATTACHMENT C-18: TL6923 SEED MIXES

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TL6923 Big Sage Scrub, Mixed Oak Woodland Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia tridentata	TBD	Local, focused seed collections	6.50	1.25
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	0.10
Eriogonum fasciculatum var. *fasciculatum*	Ramona	Local, focused seed collections	5.00	3.30
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	6.00
Lasthenia gracilis	Commercial	Local, focused seed collections	38.50	0.50
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	3.60
Salvia apiana	TBD	Local, focused seed collections	26.40	1.00
Stipa pulchra	Commercial	Local, focused seed collections	67.50	4.00
Total				**20.00**

TL6923 Chamise Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[4] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	1.75
*Ceanothus tomentosus**	TBD	Local, focused seed collections	68.60	1.50
Corethrogyne	Ramona	Local, focused	2.40	0.25

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[4] (Pounds per Acre)
filaginifolia		seed collections		
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.80
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	8.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.30
Total				**25.00**

TL6923 Diegan Coastal Sage Scrub Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Bahiopsis laciniata	TBD	Local, focused seed collections	13.95	5.00
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	1.0
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	3.75
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	7.25
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.50

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Lasthenia gracilis	Commercial	Local, focused seed collections	38.50	0.50
*Rhus ovata***	TBD	Local, focused seed collections	58.80	1.00
Rhamnus crocea	TBD	Local, focused seed collections	39.84	3.00
Salvia apiana	TBD	Local, focused seed collections	26.40	2.0
Total				**25.00**

TL6923 Coastal Sage/Chaparral Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.25
Artemisia californica	Ramona	Local, focused seed collections	18.00	1.00
Bahiopsis laciniata	Otay Mesa	Local, focused seed collections	13.95	1.50
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	0.75
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	5.00
Eriodictyon crassifolium var. *crassifolium*	Banning	Local, focused seed collections	21.20	2.75
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.25
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	4.00
Keckiella antirrhinoides	Banning	Local, focused seed collections	30.00	1.50

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	2.00
*Rhus ovata***	Poway	Local, focused seed collections	58.80	1.00
Total				**20.00**

TL6923 Oak Savanna, Non-Native Grassland, and Erosion Control Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
Ambrosia psilostachya	Ramona	Local, focused seed collections	20.25	8.00
Corethrogyne filaginifolia	Ramona	Local, focused seed collections	2.40	4.30
Deinandra fasciculata	TBD	Local, focused seed collections	16.25	2.50
Eriogonum gracile	Lake Henshaw	Local, focused seed collections	12.00	2.00
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	1.70
Lupinus bicolor	Commercial	Local, focused seed collections	83.30	4.50
Stephanomeria exigua	TBD	Local, focused seed collections	1.32	2.00
Total				**25.00**

TL6923 Southern Mixed Chaparral and Scrub Oak Chaparral Seed Mix

Species[1]	Commercial Source[2]	Source for USFS Managed Lands[3]	Purity and Germination Combined Percent[4]	Suggested Pure Live Seed[5] (Pounds per Acre)
*Adenostoma fasciculatum**	TBD	Local, focused seed collections	17.00	0.75
Heteromeles arbutifolia	TBD	Local, focused seed collections	57.00	5.00
*Rhamnus ilicifolia**	TBD	Local, focused seed collections	45.58	2.00
*Ceanothus perplexans**	TBD	Local, focused seed collections	68.60	0.75
Eriogonum fasciculatum var. *polifolium*	Ramona	Local, focused seed collections	6.00	2.00
Eriodictyon crassifolium var. crassifolium	Banning	Local, focused seed collections	21.20	1.85
Eriodictyon trichocalyx	Escondido	Local, focused seed collections	12.00	0.50
Gutierrezia californica	Ramona	Local, focused seed collections	2.50	0.20
Hazardia squarrosa	Ramona	Local, focused seed collections	2.00	0.20
Hesperoyucca whipplei	Alpine	Local, focused seed collections	73.87	7.00
*Prunus ilicifolia**	TBD	Local, focused seed collections	45.00	4.00
*Rhus ovata**	TBD	Local, focused seed collections	58.80	7.00
Salvia apiana	TBD	Local, focused seed collections	26.40	1.00
*Arctostaphylos pungens**	TBD	Local, focused seed collections	57.00	4.00
Total				**36.25**

Seed Mix Notes:

[1]Species substitutions and/or additions may be made at the discretion of the HRS based on seed availability; substitutions or additions for seed mixes applied on USFS-managed lands will be approved by USFS.
[2]Commercial source locations obtained from S&S seeds are listed in table; TBD = to be determined.
[3]For USFS-managed lands, the first source for seeds will be from local, focused seed collections within the Cleveland National Forest. Local sources shall fall within the USFS provisional seed zones (USFS 2016) and, to the extent practical, within 10 miles and 500 feet elevation along each transmission line and distribution circuit.
[4]Purity and Germination Combined Percent provided by S&S Seeds; NA=not available.
[5]The bulk pounds of seed per acre will be adjusted to achieve the specified suggested pounds of pure live seed per acre when the final seed sources are confirmed and the actual percent purity/percent germination percent are known. Each final seed mix will have a minimum of 100 live seeds per square foot.
*Seed scarification treatments may be performed for these species at the discretion of the HRS; only 30% of the seed for any restoration area will be treated.