Project Name: Horizon West Transmission's Ironwood Transmission Line
Reviewer(s): Kelly Hobbs
Initial Review Date: 9/29/2025

PEA Checklist Section: Proposed Project Description
ECORP Project Number: 2020-196.03

Item #	Item Description	Does the PEA include this item? Yes	No	N/A	Notes	Applicant Response Date:	CPUC 2nd Review Item Resolved? Yes	No	Notes	Applicant 2nd Response Date:	CPUC 3rd Review Item Resolved? Yes	No
3.1 Project Overview												
3.1.1	**Project Overview**						☐	☐			☐	☐
	a) Provide a concise summary of the Proposed Project and components in a few paragraphs.	☑	☐	☐			☐	☐			☐	☐
	b) Described the geographical location of the Proposed Project (i.e., county, city, etc.).	☑	☐	☐			☐	☐			☐	☐
	c) Provide an overview map of the proposed Project location.	☑	☐	☐			☐	☐			☐	☐
3.2 Exisiting and Proposed System												
3.2.1	**Exisiting System**											
	a) Identify and describe the existing utility system that would be modified by the Proposed Project, including connected facilities to provide context. Include detailed information about substations, transmission lines, distribution lines, compressor stations, metering stations, valve stations, nearby renewable generation and energy storage facilities, telecommunications facilities, control systems, SCADA systems, etc.	☑	☐	☐			☐	☐			☐	☐
	b) Provide information on users and the area served by the existing system features.	☑	☐	☐			☐	☐			☐	☐
	c) Explain how the proposed project would fit into the existing local and regional systems.	☑	☐	☐			☐	☐			☐	☐
	d) Provide a schematic diagram of the existing system features.	☑	☐	☐			☐	☐			☐	☐
	e) Provide detailed maps and associated GIS data for existing facilities that would be modified by the Proposed Project.	☐	☐	☑			☐	☐			☐	☐
3.2.2	**Proposed Project System**											
	a) Describe the whole of the Proposed Project by component, including all new facilities and any modifications, upgrades, or expansions to existing facilities and any interrelated activities that are part of the whole of the action.	☑	☐	☐			☐	☐			☐	☐
	b) Clearly identify system features that would be added, modified, removed, disconnected and left in place, etc.	☑	☐	☐			☐	☐			☐	☐
	c) Identify the expected capacities of the proposed facilities, highlighting any changes from the existing system. If the project would not change existing capacities, make this statement. For electrical projects, provide the anticipated capacity increase in amps or megawatts or in the typical units for the types of facilities proposed. For gas projects, provide the total volume of gas to be delivered by the proposed facilities, anticipated system capacity increase (typically in million cubic feet per day), expected customers, delivery points and corresponding volumes, and the anticipated maximum allowable operating pressure(s).	☑	☐	☐			☐	☐			☐	☐

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	d) Describe the initial buildout and eventual full buildout of the proposed project facilities. For example, if an electrical substation or gas compressor station would be installed to accommodate additional demand in the future, then include the designs for both the initial construction based on current demand and the design for all infrastructure that could ultimately be installed within the planned footprint of an electric substation or compressor station.	☑	☐	☐			☐	☐			☐	☐
	e) Explain whether the electric line or gas pipeline will create a second system tie or loop for reliability.	☑	☐	☐			☐	☐			☐	☐
	f) Provide information on users and the area served by the proposed system features, highlighting any differences from the existing system.	☑	☐	☐			☐	☐			☐	☐
	g) Provide a schematic diagram of the proposed system features.	☑	☐	☐			☐	☐			☐	☐
	h) Provide detailed maps and associated GIS data for proposed facilities that would be installed, modified, or relocated by the Proposed Project.	☑	☐	☐			☐	☐			☐	☐
3.2.3	**System Reliability.** Explain whether the electric line or gas pipeline will create a second system tie or loop for reliability. Clearly explain and show how the Proposed Project relates to and supports the existing utility systems.	☑	☐	☐			☐	☐			☐	☐
3.2.4	**Planning Area.** Describe the system planning area served or to be served by the project. Clearly define the Applicant's term for the planning area (e.g., Electrical Needs Area or Distribution Planning Area).	☑	☐	☐			☐	☐			☐	☐
3.3 Project Components												
Required for All Project Types												
3.3.1	**Preliminary Design and Engineering**											
	a) Provide preliminary design and engineering information for all above-ground and below-ground facilities for the Proposed Project. The approximately locations, maximum dimensions of facilities, and limits of areas that would be needed to construction and operate the facilities should be clearly defined.	☑	☐	☐			☐	☐			☐	☐
	b) Provide preliminary design drawings for project features and explain the level of completeness (i.e., percentage).	☑	☐	☐			☐	☐			☐	☐
	c) Provide detailed project maps (approximately 1:3,000 scale) and associated GIS data of all facility locations and boundaries with attributes and spatial geometry that corresponds to information in the Project Description.	☑	☐	☐			☐	☐			☐	☐
3.3.2	**Segments, Components, and Phases**											
	a) Define all project segments, components, and phases for the Proposed Project.	☑	☐	☐			☐	☐			☐	☐
	b) Provide the length/area of each segment or component, and the timing of each development phase.	☑	☐	☐			☐	☐			☐	☐
	c) Provide an overview map showing each segment and provide associated GIS data (may be combined with other mapping efforts).	☑	☐	☐			☐	☐			☐	☐
3.3.3	**Exisiting Facilities**											
	a) Identify the types of existing facilities that would be removed or modified by the Proposed Project (i.e., conductor/cable, poles/towers, substations, switching stations, gas storage facilities, gas pipelines, service buildings, communication systems, etc.).	☑	☐	☐			☐	☐			☐	☐

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	b) Describe the existing facilities by Project segment and/or component, and provide information regarding existing dimensions, areas/footprints, quantities, locations, spans, etc.	☑	☐	☐			☐	☐			☐	☐
	c) Distinguish between above-ground and below-ground facilities and provide both depth and height ranges for each type of facility. For poles/towers, provide the installation method (i.e., foundation type or direct bury), and maximum above-ground heights and below-ground depths.	☑	☐	☐			☐	☐			☐	☐
	d) Explain what would happen to the existing facilities. Would they be replaced, completely removed, modified, or abandoned? Explain why.	☑	☐	☐			☐	☐			☐	☐
	e) Identify the names, types, materials, and capacity/volumes ranges (i.e., minimum and maximum) of existing facilities that would be installed or modified by the Proposed Project.	☑	☐	☐			☐	☐			☐	☐
	f) Provide diagrams with dimensions representing existing facilities to provide context on how the proposed facilities would be different.	☑	☐	☐			☐	☐			☐	☐
	g) Briefly describe the surface colors, textures, light reflectivity, and any lighting of existing facilities.	☑	☐	☐			☐	☐			☐	☐
3.3.4	**Proposed Facilities**											
	a) Identify the types of proposed facilities to be installed or modified by the Proposed Project (e.g., conductor/cable, poles/towers, substations, switching stations, gas storage facilities, gas pipelines, service buildings, communication systems).	☑	☐	☐			☐	☐			☐	☐
	b) Describe the proposed facilities by project segment and/or component, and provide information regarding maximum dimensions, areas/footprints, quantities, locations, spans, etc.	☑	☐	☐			☐	☐			☐	☐
	c) Distinguish between above-ground and below-ground facilities and provide both depth and height ranges for each type of facility. For poles/towers, provide the installation method (i.e., foundation type or direct bury), and maximum above-ground heights and below-ground depths.	☑	☐	☐			☐	☐			☐	☐
	d) Identify where facilities would be different (e.g., where unique or larger poles would be located, large guy supports or snub poles).	☑	☐	☐			☐	☐			☐	☐
	e) Provide details about civil engineering requirements (i.e., permanent roads, foundations, pads, drainage systems, detention basins, spill containment, etc.).	☑	☐	☐			☐	☐			☐	☐
	f) Distinguish between permanent facilities and any temporary facilities (i.e., poles, shoo-fly lines, mobile substations, mobile compressors, transformers, capacitors, switch racks, compressors, valves, driveways, and lighting).	☑	☐	☐			☐	☐			☐	☐
	g) Identify the names, types, materials, and capacity/volumes ranges (i.e., minimum and maximum) of proposed facilities that would be installed or modified by the Proposed Project.	☑	☐	☐			☐	☐			☐	☐
	h) Provide diagrams with dimensions representing existing facilities.	☐	☐	☑			☐	☐			☐	☐
	i) Briefly describe the surface colors, textures, light reflectivity, and any lighting of proposed facilities.	☑	☐	☐			☐	☐			☐	☐
3.3.5	**Other Potentially Required Facilities**											
	a) Identify and describe in detail any other actions or facilities that may be required to complete the Project. For example, consider the following questions:	☑	☐	☐			☐	☐			☐	☐

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	i) Could the project require the relocation (temporary or permanent), modification, or replacement of unconnected utilities or other types of infrastructure by the Applicant or any other entity?	☑	☐	☐			☐	☐			☐	☐
	ii) Could the project require aviation lighting and/or marking?	☑	☐	☐			☐	☐			☐	☐
	iii) Could the project require additional civil engineering requirements to address site conditions or slope stabilization issues, such as pads and retaining walls, etc.?	☑	☐	☐			☐	☐			☐	☐
	b) Provide the location of each facility and a description of the facility.	☑	☐	☐			☐	☐			☐	☐
3.3.6	**Future Expansions and Equipment Lifespans**											
	a) Provide detailed information about the current and reasonably foreseeable plans for expansion and future phases of development.	☑	☐	☐			☐	☐			☐	☐
	b) Provide the expected usable life of all facilities.	☑	☐	☐			☐	☐			☐	☐
	c) Describe all reasonably foreseeable consequences of the Proposed Project (e.g., future ability to upgrade gas compressor station to match added pipeline capacity).	☑	☐	☐			☐	☐			☐	☐
Required for Certain Project Types												
3.3.7	**Below-ground Conductor/Cable Installations (as Applicable)**											
	a) Describe the type of line to be installed (e.g., single circuit crosslinked polyethylene-insulated solid-dielectric, copper-conductor cables).	☑	☐	☐			☐	☐			☐	☐
	b) Describe the type of casing the cable would be installed in (e.g., concrete-encased duct bank system) and provide the dimensions of the casing.	☑	☐	☐			☐	☐			☐	☐
	Describe the types of infrastructure would likely be installed within the duct bank (e.g., transmission, fiber optics, etc.).	☑	☐	☐			☐	☐			☐	☐
3.3.8	**Electric Substations and Switching Stations (as Applicable)**											
	a) Provide the number of transformer banks that will be added at initial and full buildout of the substation. Identify the transformer voltage and number of each transformer type.	☑	☐	☐			☐	☐			☐	☐
	b) Identify any gas insulated switchgear that will be installed within the substation.	☑	☐	☐			☐	☐			☐	☐
	c) Describe any operation and maintenance facilities, telecommunications equipment, and SCADA equipment that would be installed within the substation.	☑	☐	☐			☐	☐			☐	☐
3.3.9	**Gas Pipelines (as Applicable).** For each segment:											
	a) Identify pipe diameter, number and length of exposed sections, classes and types of pipe to be installed, pressure of pipe, and cathodic protection for each linear segment.	☐	☐	☑			☐	☐			☐	☐
	b) Describe new and existing inspection facilities (e.g., pig launcher sites).	☐	☐	☑			☐	☐			☐	☐
	c) Describe system cross ties and laterals/taps.	☐	☐	☑			☐	☐			☐	☐
	d) Identify the spacing between each valve station.	☐	☐	☑			☐	☐			☐	☐
	e) Describe the compressor station, if needed, for any new or existing pipeline.	☐	☐	☑			☐	☐			☐	☐

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		Yes	**No**	**N/A**		**Date:**	**Yes**	**No**		**Date:**	**Yes**	**No**	
	f) Describe all pipelines and interconnections with existing and proposed facilities, including:	☐	☐	☑			☐	☐			☐	☐	
	i) Number of interconnections and locations and sizes;	☐	☐	☑			☐	☐			☐	☐	
	ii) All below-ground and above-ground installations;	☐	☐	☑			☐	☐			☐	☐	
	iii) All remote facility locations for metering, telemetry, control.	☐	☐	☑			☐	☐			☐	☐	
3.3.10	**Gas Storage Facilities – Background and Resource Information (as Applicable)**												
	a) Provide detailed background information on the natural gas formation contributing to the existing or proposed natural gas facility, including the following:	☐	☐	☑			☐	☐			☐	☐	
	i) Description of overlying stratigraphy, especially caps	☐	☐	☑			☐	☐			☐	☐	
	ii) Description of production, injection, and intervening strata	☐	☐	☑			☐	☐			☐	☐	
	iii) Types of rock	☐	☐	☑			☐	☐			☐	☐	
	iv) Description of types of rocks in formation, including permeability or fractures	☐	☐	☑			☐	☐			☐	☐	
	v) Thickness of strata	☐	☐	☑			☐	☐			☐	☐	
	b) Provide a graphic and/or table showing formation thicknesses.	☐	☐	☑			☐	☐			☐	☐	
	c) Identify and describe any potential gas migration pathways, such as faults, permeable contacts, abandoned wells, underground water or other pipelines.	☐	☐	☑			☐	☐			☐	☐	
	d) Provide a summary and detailed cross-section diagrams of the geologic formations and structures of the oil/gas field or area.	☐	☐	☑			☐	☐			☐	☐	
	e) Provide the first well drilling and production history, abandonment procedures, inspections, etc.	☐	☐	☑			☐	☐			☐	☐	
	f) Describe production zones, including depth, types of formations, and characteristics of field/area.	☐	☐	☑			☐	☐			☐	☐	
	g) Describe the existing and proposed storage capacity and limiting factors, such as injection or withdrawal capacities.	☐	☐	☑			☐	☐			☐	☐	
	h) Describe existing simulation studies that were used to predict the reservoir pressure response under gas injection and withdrawal operations, and simulation studies for how the system would change as proposed. Provide the studies as a PEA Appendix.	☐	☐	☑			☐	☐			☐	☐	
	i) Provide the history of the oil/gas field or area.	☐	☐	☑			☐	☐			☐	☐	
3.3.11	**Gas Storage Facilities – Well-Head Sites (as Applicable).** Describe the location, depth, size and completion information for all existing, abandoned, proposed production and injection, monitoring, and test wells.	☐	☐	☑			☐	☐			☐	☐	
3.3.12	**Gas Storage Facilities – Production and Injection (as Applicable)**												
	a) Provide the proposed storage capacity of production and injection wells.	☐	☐	☑			☐	☐			☐	☐	
	b) Provide production and injection pressures, depths, and rates.	☐	☐	☑			☐	☐			☐	☐	
	c) Provide production and injection cycles by day, week, and year.	☐	☐	☑			☐	☐			☐	☐	

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	d) Describe existing and proposed withdrawal/production wells (i.e., size, depth, formations, etc.).	☐	☐	☑			☐	☐			☐	☐
	e) Describe existing and proposed cushion gas requirements.	☐	☐	☑			☐	☐			☐	☐
	f) Describe any cushion gas injection—formation the well is completed in (cushion gas formation), and injection information.	☐	☐	☑			☐	☐			☐	☐
3.3.13	**Gas Storage Facilities – Electrical Energy (as Applicable).** Describe all existing and proposed electric lines, telecommunications facilities, and other utilities/facilities (e.g., administrative offices, service buildings, and non-hazardous storage), and chemical storage associated with the Proposed Project.	☐	☐	☑			☐	☐			☐	☐
3.3.14	**Telecommunication Lines (as Applicable)**											
	a) Identify the type of cable that is proposed and length in linear miles by segment.	☑	☐	☐			☐	☐			☐	☐
	b) Identify any antenna and node facilities that are part of the project.	☑	☐	☐			☐	☐			☐	☐
	c) For below-ground telecommunication lines, provide the depth of cable and type of conduit.	☑	☐	☐			☐	☐			☐	☐
	d) For above-ground telecommunication lines, provide:	☑										
	i) Types of poles that will be installed (if new poles are required)	☑	☐	☐			☐	☐			☐	☐
	ii) Where existing poles will be used	☑	☐	☐			☐	☐			☐	☐
	iii) Any additional infrastructure (e.g., guy wires) or pole changes required to support the additional cable on existing poles	☑	☐	☐			☐	☐			☐	☐
3.4 Land Ownership, Rights-of-Way, and Easements												
3.4.1	Land Ownership. Describe existing land ownership where each Project component would be located. State whether the Proposed Project would be located on property(ies) owned by the Applicant or if additional property would be required.	☑	☐	☐			☐	☐			☐	☐
3.4.2	**Exisiting Rights-of-Way or Easements**											
	a) Identify and describe existing rights-of-way (ROWs) or easements where project components would be located. Provide the approximately lengths and widths in each Project Area.	☑	☐	☐			☐	☐			☐	☐
	b) Clearly state if project facilities would be replaced, modified, or relocated within existing ROWs or easements.	☑	☐	☐			☐	☐			☐	☐
3.4.3	**New or Modified Rights-of-Way or Easements**											
	a) Describe new permanent or modified ROWs or easements that would be required. Provide the approximately lengths and widths in each Project Area.	☑	☐	☐			☐	☐			☐	☐
	b) Describe how any new permanent or modified ROWs or easements would be acquired.	☑	☐	☐			☐	☐			☐	☐
	c) Provide site plans identifying all properties/parcels and partial properties/parcels that may require acquisition and the anticipated ROWs or easements. Provide associated GIS data.	☑	☐	☐			☐	☐			☐	☐
	d) Describe any development restrictions within new ROWs or easements, e.g., building clearances and height restrictions, etc.	☑	☐	☐			☐	☐			☐	☐
	e) Describe any relocation or demolition of commercial or residential property/structures that may be necessary.	☑	☐	☐			☐	☐			☐	☐
3.4.4	**Temporary Rights-of-Way or Easements**											

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	f) Describe temporary ROWs or easements that would be required to access project areas, including ROWs or easements for temporary construction areas (i.e., staging areas or landing zones).	☑	☐	☐			☐	☐			☐	☐
	g) Explain where temporary construction areas would be located with existing ROWs or easements for the Project or otherwise available to the Applicant without a temporary ROW or easement.	☑	☐	☐			☐	☐			☐	☐
	h) Describe how any temporary ROWs or easements would be acquired.	☑	☐	☐			☐	☐			☐	☐
3.5 Construction												
3.5.1	**Construction Access *(All Projects)***											
3.5.1.1	**Existing Access Roads**											
	a) Provide the lengths, widths, ownership details (both public and private roads), and surface characteristics (i.e., paved, graveled, bare soil) of existing access roads that would be used during construction. Provide the area of existing roads that would be used (see example in Table 3 below).	☑	☐	☐			☐	☐			☐	☐
	Table 3. Access Roads **Type of Road** / **Description** / **Area Proposed Project** Existing Dirt Road — Typically double track. May have been graded previously. No other preparation required, although a few sections may need to be re-graded and crushed rock applied in very limited areas for traction. — ____ acres New Permanent — Would be xx feet wide, bladed. No other preparation required although crushed rock may need to be applied in very limited areas for traction. — ____ acres Overland Access — No preparation required. Typically grassy areas that are relatively flat. No restoration would be necessary. — ____ acres											
	b) Describe any road modifications or stabilization that would be required prior to construction, including on the adjacent road shoulders or slopes. Identify any roads that would be expanded and provide the proposed width increases.	☑	☐	☐			☐	☐			☐	☐
	c) Describe any procedures to address incidental road damage cause by Project activities following construction.	☑	☐	☐			☐	☐			☐	☐
	d) Provide detailed maps and associated GIS data for all existing access roads.	☑	☐	☐			☐	☐			☐	☐
3.5.1.2	**New Access Roads**											
	a) Identify any new access roads that would be developed for Project construction purposes, such as where any blading, grading, or gravel placement could occur to provide equipment access outside of a designated workspace.	☑	☐	☐			☐	☐			☐	☐
	b) Provide lengths, widths, and development methods for new access roads.	☑	☐	☐			☐	☐			☐	☐
	c) Identify any temporary or permanent gates that would be installed.	☑	☐	☐			☐	☐			☐	☐
	d) Clearly identify any roads that would be temporary and fully restored following construction. Otherwise it will be assumed the new access road is a permanent feature.	☑	☐	☐			☐	☐			☐	☐
	e) Provide detailed maps and associated GIS data for all new access roads.	☑	☐	☐			☐	☐			☐	☐
3.5.1.3	**Overland Access Routes**											
	a) Identify any overland access routes that would be used during construction, such as where vehicles and equipment would travel over existing vegetation and where blading, grading, or gravel placement would occur.	☑	☐	☐			☐	☐			☐	☐
	b) Provide lengths and widths for new access roads.	☑	☐	☐			☐	☐			☐	☐

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	c) Provide detailed maps and associated GIS data for all overland access routes.	☑	☐	☐			☐	☐			☐	☐
3.5.1.4	**Watercourse Crossings**											
	a) Identify all temporary watercourse crossings that would be required during construction. Provide specific methods and procedures for temporary watercourse crossings.	☑	☐	☐			☐	☐			☐	☐
	b) Describe any bridges or culverts that replacement or installation of would be required for construction access.	☑	☐	☐			☐	☐			☐	☐
	c) Provide details about the location, design and construction methods.	☑	☐	☐			☐	☐			☐	☐
3.5.1.5	**Helicopter Access.** If helicopters would be used during construction:											
	a) Describe the types and quantities of helicopters that would be used during construction (e.g., light, medium, heavy, or sky crane), and a description of the activities that each helicopter would be used for.	☑	☐	☐			☐	☐			☐	☐
	b) Identify areas for helicopter takeoff and landing.	☑	☐	☐			☐	☐			☐	☐
	c) Describe helicopter refueling procedures and locations.	☑	☐	☐			☐	☐			☐	☐
	d) Describe flight paths, payloads, and expected hours and durations of helicopter operation.	☑	☐	☐			☐	☐			☐	☐
	e) Describe any safety procedures or requirements unique to helicopter operations, such as but not limited to obtaining a Congested Area Plan from the Federal Aviation Administration (FAA).	☑	☐	☐			☐	☐			☐	☐
3.5.2	**Staging Areas *(All Projects)***											
3.5.2.1	**Staging Area Locations**											
	a) Identify the locations of all staging area(s). Provide a map and GIS data for each. While not all potential local site staging areas will be known prior to selection of a contractor, it is expected that approximate area and likely locations of staging areas be disclosed. The identification of extra or optional staging areas should be considered to reduce the risk of changes after project approval that could necessitate further CEQA review.	☑	☐	☐			☐	☐			☐	☐
	b) Provide the size (in acres) for each staging area and the total staging area requirements for the Project.	☑	☐	☐			☐	☐			☐	☐
3.5.2.2	**Staging Area Preparation**											
	a) Describe any site preparation required, if known, or generally describe what might be required (i.e., vegetation removal, new access road, installation of rock base, etc.).	☑	☐	☐			☐	☐			☐	☐
	b) Describe what the staging area would be used for (i.e., material and equipment storage, field office, reporting location for workers, parking area for vehicles and equipment, etc.).	☑	☐	☐			☐	☐			☐	☐
	c) Describe how the staging area would be secured. Would a fence be installed? If so, describe the type and extent of the fencing.	☑	☐	☐			☐	☐			☐	☐
	d) Describe how power to the site would be provided if required (i.e., tap into existing distribution, use of diesel generators, etc.).	☑	☐	☐			☐	☐			☐	☐
	e) Describe any temporary lightning facilities for the site.	☑	☐	☐			☐	☐			☐	☐
	f) Describe any grading activities and/or slope stabilization issues.	☑	☐	☐			☐	☐			☐	☐
3.5.3	**Construction Work Areas *(All Projects)***											

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3.5.3.1	**Construction Work Areas**											
	a) Describe known work areas that may be required for specific construction activities (e.g., pole assembly, hillside construction). Each specific work area may not be determined until the final work plan is submitted by the construction contractor. Estimate total area likely to be disturbed.	☑	☐	☐			☐	☐			☐	☐
	b) Describe the types of activities that would be performed at each work area. Work areas may include but are not necessarily limited to:											
	i) Helicopter landing zones and touchdown areas	☑	☐	☐			☐	☐			☐	☐
	ii) Vehicle and equipment parking, passing, or turnaround areas	☑	☐	☐			☐	☐			☐	☐
	iii) Railroad, bridge, or watercourse crossings	☑	☐	☐			☐	☐			☐	☐
	iv) Temporary work pads for facility installation, modification, or removal	☑	☐	☐			☐	☐			☐	☐
	v) Excavations and associated equipment work areas	☑	☐	☐			☐	☐			☐	☐
	vi) Temporary guard structures	☑	☐	☐			☐	☐			☐	☐
	vii) Pull-and-tension/stringing sites	☑	☐	☐			☐	☐			☐	☐
	viii) Jack and bore pits, drilling areas and pull-back areas for horizontal directional drills	☑	☐	☐			☐	☐			☐	☐
	ix) Retaining walls	☑	☐	☐			☐	☐			☐	☐
3.5.3.2	**Work Area Disturbance**											
	a) Provide the dimensions of each work area including the maximum area that would be disturbed during construction (e.g., 100 feet by 200 feet).	☑	☐	☐			☐	☐			☐	☐
	b) Provide a table with temporary and permanent disturbance at each work area (in square feet or acres), and the total area of temporary and permanent disturbance for the entire Project (in acres).	☑	☐	☐			☐	☐			☐	☐
3.5.3.3	**Temporary Power.** Identify how power would be provided at work area (i.e., tap into existing distribution, use of diesel generators, etc.). Provide the disturbance area for any temporary power lines.	☑	☐	☐			☐	☐			☐	☐
3.5.4	**Site Preparation (All Projects)**											
3.5.4.1	**Surveying and Staking.** Describe initial surveying and staking procedures for site preparation and access.	☑	☐	☐			☐	☐			☐	☐
3.5.4.2	**Utilities**											
	a) Describe the process for identifying any underground utilities prior to construction (i.e., underground service alerts, etc.).	☑	☐	☐			☐	☐			☐	☐
	b) Describe the process for relocating any existing overhead or underground utilities that aren't directly connected to the project system.	☑	☐	☐			☐	☐			☐	☐
	c) Describe the process for installing any temporary power or other utility lines for construction.	☑	☐	☐			☐	☐			☐	☐
3.5.4.3	**Vegetation Clearing**											
	a) Describe what types of vegetation clearing may be required (e.g., tree removal, brush removal, flammable fuels removal) and why (e.g., to provide access, etc.).	☑	☐	☐			☐	☐			☐	☐

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	b) Provide calculations of temporary and permanent disturbance of each vegetation community and include all areas of vegetation removal in the GIS database. Distinguish between disturbance that would occur in previously developed areas (i.e., paved, graveled, or otherwise urbanized), and naturally vegetated areas.	☑	☐	☐			☐	☐			☐	☐
	c) Describe how each type of vegetation removal would be accomplished.	☑	☐	☐			☐	☐			☐	☐
	d) Describe the types of equipment that would be used for vegetation removal.	☑	☐	☐			☐	☐			☐	☐
3.5.4.4	**Tree Trimming Removal**											
	a) For electrical projects, distinguish between tree trimming as required under CPUC General Order 95-D and tree removal.	☑	☐	☐			☐	☐			☐	☐
	b) Identify the types, locations, approximate numbers, and sizes of trees that may need to be removed or trimmed substantially.	☑	☐	☐			☐	☐			☐	☐
	c) Identify potentially protected trees that may be removed or substantially trimmed, such as but not limited to riparian trees, oak trees, Joshua trees, or palm trees.	☑	☐	☐			☐	☐			☐	☐
	d) Describe the types of equipment that would typically be used for tree removal.	☑	☐	☐			☐	☐			☐	☐
3.5.4.5	**Work Area Stabilization.** Describe the processes to stabilize temporary work areas and access roads including the materials that would be used (e.g., gravel).	☑	☐	☐			☐	☐			☐	☐
3.5.4.6	**Grading**											
	a) Describe any earth moving or substantial grading activities (i.e., grading below a 6-inch depth) that would be required and identify locations where it would occur.	☑	☐	☐			☐	☐			☐	☐
	b) Provide estimated volumes of grading (in cubic yards) including total cut, total fill, cut that would be reused, cut that would be hauled away, and clean fill that would be hauled to the site.	☑	☐	☐			☐	☐			☐	☐
3.5.5	**Transmission Line Construction (Above Ground)**											
3.5.5.1	**Poles/Towers**											
	a) Describe the process and equipment for removing poles, towers, and associated foundations for the proposed project (where applicable). Describe how they would be disconnected, demolished, and removed from the site. Describe backfilling procedures and where the material would be obtained.	☑	☐	☐			☐	☐			☐	☐
	b) Describe the process and equipment for installing or otherwise modifying poles and towers for the proposed project. Describe how they would be put into place and connected to the system. Identify any special construction methods (e.g., helicopter installation) at specific locations or specific types of poles/towers.	☑	☐	☐			☐	☐			☐	☐
	c) Describe how foundations, if any, would be installed. Provide a description of the construction method(s), approximate average depth and diameter of excavation, approximate volume of soil to be excavated, approximate volume of concrete or other backfill required, etc. for foundations. Describe what would be done with soil removed from a hole/foundation site.	☑	☐	☐			☐	☐			☐	☐
	d) Describe how the poles/towers and associated hardware would be delivered to the site and assembled.	☑	☐	☐			☐	☐			☐	☐

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	e) Describe any pole topping procedures that would occur, identify specific locations and reasons, and describe how each facility would be modified. Describe any special methods that would be required to top poles that may be difficult to access.	☑	☐	☐			☐	☐			☐	☐
3.5.5.2	**Aboveground and Underground Conductor/Cable**											
	a) Provide a process-based description of how new conductor/cable would be installed and how old conductor/cable would be removed, if applicable.	☑	☐	☐			☐	☐			☐	☐
	b) Identify where conductor/cable stringing/installation activities would occur.	☑	☐	☐			☐	☐			☐	☐
	c) Provide a diagram of the general sequencing and equipment that would be used.	☑	☐	☐			☐	☐			☐	☐
	d) Describe the conductor/cable splicing process.	☑	☐	☐			☐	☐			☐	☐
	e) Provide the general or average distance between pull-and-tension sites. Describe the approximate dimensions and where pull-andtension sites would generally be required (as indicated by the designated work areas), such as the approximate distance to pole/tower height ratio, at set distances, or at significant direction changes. Describe the equipment that would be required at these sites.	☑	☐	☐			☐	☐			☐	☐
	f) For underground conductor/cable installations, describe all specialized construction methods that would be used for installing underground conductor or cable. If vaults are required, provide their dimensions and location/spacing along the alignment. Provide a detailed description for how the vaults would be delivered to the site and installed.	☑	☐	☐			☐	☐			☐	☐
	g) Describe any safety precautions or areas where special methodology would be required (e.g., crossing roadways, stream crossing).	☑	☐	☐			☐	☐			☐	☐
3.5.5.3	**Telecommunications.** Identify the procedures for installation of proposed telecommunication cables and associated infrastructure.	☑	☐	☐			☐	☐			☐	☐
3.5.5.4	**Guard Structures.** Identify the types of guard structures that would be used at crossings of utility lines, roads, railroads, highways, etc. Describe the different types of guard structures or methods that may be used (i.e., buried poles and netting, poles secured to a weighted object, bucket trucks, etc.). Describe any pole installation and removal procedures associated with guard structures. Describe guard structure installation and removal process and duration that guard structures would remain in place.	☐	☑	☐			☐	☐			☐	☐
3.5.5.5	**Blasting**											
	a) Describe any blasting that may be required to construct the project.	☑	☐	☐	"blasting operations may occur during Proposed Project construction on a case-by-case basis, depending on site conditions." Blasting Plan not included.		☐	☐			☐	☐
	b) If blasting may be required, provide a Blasting Plan that identifies the blasting locations; types and amounts of blasting agent to be used at each location; estimated impact radii; and, noise estimates. The Blasting Plan should be provided as an Appendix to the PEA.	☐	☑	☐	"blasting operations may occur during Proposed Project construction on a case-by-case basis, depending on site conditions." Blasting Plan not included.		☐	☐			☐	☐
	c) Provide a map identifying the locations where blasting may be required with estimated impact radii. Provide associated GIS data.	☐	☑	☐	"blasting operations may occur during Proposed Project construction on a case-by-case basis, depending on site conditions." Blasting Plan not included.		☐	☐			☐	☐
3.5.6	**Transmission Line Construction (Below Ground)**											
3.5.6.1	**Trenching**											

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	a) Describe the approximate dimensions of the trench (e.g., depth, width).	☐	☐	☑	N/A		☐	☐			☐	☐
	b) Provide the total approximate volume of material to be removed from the trench, the amount to be used as backfill, and any amount to subsequently be removed/disposed of offsite in cubic yards.	☐	☐	☑	N/A		☐	☐			☐	☐
	c) Describe the methods used for making the trench (e.g., saw cutter to cut the pavement, backhoe to remove, etc.).	☐	☐	☑	N/A		☐	☐			☐	☐
	d) Provide off-site disposal location, if known, or describe possible option(s).	☐	☐	☑	N/A		☐	☐			☐	☐
	e) Describe if dewatering would be anticipated and if so, how the trench would be dewatered, the anticipated flows of the water, whether there would be treatment, and how the water would be disposed of.	☐	☐	☑	N/A		☐	☐			☐	☐
	f) Describe the process for testing excavated soil or groundwater for the presence of pre-existing environmental contaminants that could be exposed from trenching operations	☐	☐	☑	N/A		☐	☐			☐	☐
	g) If a pre-existing hazardous waste were encountered, describe the process of removal and disposal.	☐	☐	☑	N/A		☐	☐			☐	☐
	h) Describe the state of the ground surface after backfilling the trench.	☐	☐	☑	N/A		☐	☐			☐	☐
	i) Describe standard Best Management Practices to be implemented.	☐	☐	☑	N/A		☐	☐			☐	☐
3.5.6.2	**Trenchless Techniques (Microtunnel, Jack and Bore, Horizontal Directional Drilling)**											
	a) Identify any locations/features for which the Applicant expects to use a trenchless (i.e., microtunneling, jack and bore, horizontal directional drilling) crossing method and which method is planned for each crossing.	☐	☐	☑	N/A		☐	☐			☐	☐
	b) Describe the methodology of the trenchless technique.	☐	☐	☑	N/A		☐	☐			☐	☐
	c) Provide the approximate location and dimensions of the sending and receiving pits.	☐	☐	☑	N/A		☐	☐			☐	☐
	d) Describe the methodology of excavating and shoring the pits.	☐	☐	☑	N/A		☐	☐			☐	☐
	e) Provide the total volume of material to be removed from the pits, the amount to be used as backfill, and the amount subsequently to be removed/disposed of offsite in cubic yards.	☐	☐	☑	N/A		☐	☐			☐	☐
	f) Describe process for safe handling of drilling mud and bore lubricants.	☐	☐	☑	N/A		☐	☐			☐	☐
	g) Describe the process for detecting and avoiding “fracturing-out” during horizontal directional drilling operations.	☐	☐	☑	N/A		☐	☐			☐	☐
	h) Describe the process for avoiding contact between drilling mud/lubricants and stream beds.	☐	☐	☑	N/A		☐	☐			☐	☐
	i) If engineered fill would be used as backfill, indicate the type of engineered backfill and the amount that would be typically used (e.g., the top 2 feet would be filled with thermal-select backfill).	☐	☐	☑	N/A		☐	☐			☐	☐
	j) Describe if dewatering is anticipated and, if so, how the pits would be dewatered, the anticipated flows of the water, whether therewould there be treatment, and how the water would be disposed of.	☐	☐	☑	N/A		☐	☐			☐	☐

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	k) Describe the process for testing excavated soil or groundwater for the presence of pre-existing environmental contaminants. Describe the process of disposing of any pre-existing hazardous waste that is encountered during excavation.	☐	☐	☑	N/A		☐	☐			☐	☐
	l) Describe any standard BMPs that would be implemented for trenchless construction.	☐	☐	☑	N/A		☐	☐			☐	☐
3.5.7	**Substation, Switching Stations, Gas Compressor Stations**				N/A							
3.5.7.1	**Installation or Facility Modification.** Describe the process and equipment for removing, installing, or modifying any substations, switching stations, or compressor stations including:				N/A							
	a) Transformers/ electric components	☐	☐	☑	N/A		☐	☐			☐	☐
	b) Gas components	☐	☐	☑	N/A		☐	☐			☐	☐
	c) Control and operation buildings	☐	☐	☑	N/A		☐	☐			☐	☐
	d) Driveways	☐	☐	☑	N/A		☐	☐			☐	☐
	e) Fences	☐	☐	☑	N/A		☐	☐			☐	☐
	f) Gates	☐	☐	☑	N/A		☐	☐			☐	☐
	g) Communication systems (SCADA)	☐	☐	☑	N/A		☐	☐			☐	☐
	h) Grounding systems	☐	☐	☑	N/A		☐	☐			☐	☐
3.5.7.2	Civil Works. Describe the process and equipment required to construct any slope stabilization, drainage, retention basins, and spill containment required for the facility.	☐	☐	☑	N/A		☐	☐			☐	☐
3.5.8	**Gas Pipelines**				N/A							
3.5.8.1	**Gas Pipeline Construction.** Describe the process for proposed pipeline construction including site development, trenching and trenchless techniques, pipe installation, and backfilling.	☐	☐	☑	N/A		☐	☐			☐	☐
3.5.8.2	**Water Crossings.** Describe water feature crossings that will occur during trenching, the method of trenching through stream crossings, and the process for avoiding impacts to the water features required for pipeline construction. Identify all locations where the pipeline will cross water features. Cite to any associated geotechnical or hydrological investigations completed and provide a full copy of each report as an Appendix to the PEA. If a geotechnical study is not available at the time of PEA filing, provide the best information available	☐	☐	☑	N/A		☐	☐			☐	☐
3.5.8.3	**Gas Pipeline Other Requirements**				N/A							
	a) Describe hydrostatic testing process including pressures, timing, source of flushing water, discharge of water.	☐	☐	☑	N/A		☐	☐			☐	☐
	b) Describe energy dissipation basin, and the size and length of segments to be tested.	☐	☐	☑	N/A		☐	☐			☐	☐
	c) Describe pig launching locations and any inline inspection techniques used during or immediately post construction.	☐	☐	☑	N/A		☐	☐			☐	☐
3.5.9	**Gas Storage Facilities**				N/A							
3.5.9.1	**Gas Storage Construction**				N/A							
	a) Describe the process for constructing the gas storage facility including constructing well pads and drilling wells.	☐	☐	☑	N/A		☐	☐			☐	☐

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	b) Describe the specific construction equipment that would be used, such as the type of drill rig (i.e., size, diesel, electric, etc.), depth of drilling, well-drilling schedule and equipment.	☐	☐	☑	N/A		☐	☐			☐	☐
3.5.9.2	**Drilling Muds and Fluids.** Describe the use of any drilling muds, fluids, and other drilling materials. Provided estimated types and quantities.	☐	☐	☑	N/A		☐	☐			☐	☐
3.5.10	**Public Safety and Traffic Control (All Projects)**											
3.5.10.1	**Public Safety**											
	a) Describe specific public safety considerations during construction and best management practices to appropriately manage public safety. Clearly state when and where they each safety measure would be applied.	☑	☐	☐			☐	☐			☐	☐
	b) Identify procedures for managing work sites in urban areas, covering open excavations securely, installing barriers, installing guard structures, etc.	☑	☐	☐			☐	☐			☐	☐
	c) Identify specific project areas where public access may be restricted for safety purposes and provide the approximate durations and timing of restricted access at each location.	☑	☐	☐			☐	☐			☐	☐
3.5.10.2	**Traffic Control**											
	a) Describe traffic control procedures that would be implemented during construction.	☑	☐	☐			☐	☐			☐	☐
	b) Identify the locations, process, and timing for closing any sidewalks, lanes, roads, trails, paths, or driveways to manage public access.	☑	☐	☐			☐	☐			☐	☐
	c) Identify temporary detour routes and locations.	☑	☐	☐			☐	☐			☐	☐
	d) Provide a preliminary Traffic Control Plan(s) for the project.	☑	☐	☐			☐	☐			☐	☐
3.5.10.3	**Security.** Describe any security measures, such as fencing, lighting, alarms, etc. that may be required. State if security personnel will be stationed at project areas and anticipated duration of security.	☑	☐	☐			☐	☐			☐	☐
3.5.10.4	**Livestock.** Describe any livestock fencing or guards that may be necessary to prevent livestock from entering project areas. State if the fencing would be electrified and if so, how it would be powered.	☑	☐	☐			☐	☐			☐	☐
3.5.11	**Dust, Erosion, and Runoff Controls *(All Projects)***											
3.5.11.1	**Dust.** Describe specific best management practices that would be implemented to manage fugitive dust.	☑	☐	☐			☐	☐			☐	☐
3.5.11.2	**Erosion.** Describe specific best management practices that would be implemented to manage erosion.	☑	☐	☐			☐	☐			☐	☐
3.5.11.3	**Runoff.** Describe specific best management practices that would be implemented to manage stormwater runoff and sediment.	☑	☐	☐			☐	☐			☐	☐
3.5.12	**Water Use and Dewatering *(All Projects)***											
3.5.12.1	**Water Use.** Describe the estimated volumes of water that would be used by construction activity (e.g., dust control, compaction, etc.). State if recycled or reclaimed water would be used and provide estimated volumes. Identify the anticipated sources where the water would be acquired or purchased. Identify if the source of water is groundwater and the quantity of groundwater that could be used.	☑	☐	☐			☐	☐			☐	☐
3.5.12.2	**Dewatering**											
	a) Describe dewatering procedures during construction, including pumping, storing, testing, permitted discharging, and disposal requirements that would be followed.	☑	☐	☐			☐	☐			☐	☐

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	b) Describe the types of equipment and workspace considerations to be used to dewater, store, transport, or discharge extracted water.	☑	☐	☐			☐	☐			☐	☐
3.5.13	**Hazardous Materials and Management *(All Projects)***											
3.5.13.1	**Hazardous Materials**											
	a) Describe the types, uses, and volumes of all hazardous materials that would be used during construction.	☑	☐	☐			☐	☐			☐	☐
	b) State if herbicides or pesticides may be used during construction.	☑	☐	☐			☐	☐			☐	☐
	c) If a pre-existing hazardous waste were encountered, describe the process of removal and disposal.	☑	☐	☐			☐	☐			☐	☐
3.5.13.1	**Hazardous Materials**											
	a) Identify specific best management practices that would be followed for transporting, storing, and handling hazardous materials.	☑	☐	☐			☐	☐			☐	☐
	b) Identify specific best management practices that would be followed in the event of an incidental leak or spill of hazardous materials.	☑	☐	☐			☐	☐			☐	☐
	c) Provide a Hazardous Substance Controland emergency Response Plan/Hazardous Waste and Spill Prevention Plan as an Appendix to the PEA, if appropriate.	☐	☐	☑			☐	☐			☐	☐
3.5.14	**Waste Generation and Management *(All Projects)***											
3.5.14.1	**Solid Waste**											
	a) Describe solid waste streams from existing and proposed facilities during construction.	☑	☐	☐			☐	☐			☐	☐
	b) Identify procedures to be implemented to manage solid waste, including collection, containment, storage, treatment, and disposal.	☑	☐	☐			☐	☐			☐	☐
	c) Provide estimated total volumes of solid waste by construction activity or project component.	☑	☐	☐			☐	☐			☐	☐
	d) Describe the recycling potential of solid waste materials and provide estimated volumes of recyclable materials by construction activity or project component.	☑	☐	☐			☐	☐			☐	☐
	e) Identify the locations of appropriate disposal and recycling facilities where solid wastes would be transported.	☑	☐	☐			☐	☐			☐	☐
3.5.14.2	**Liquid Waste**											
	a) Describe liquid waste streams during construction (i.e., sanitary waste, drilling fluids, contaminated water, etc.)	☑	☐	☐			☐	☐			☐	☐
	b) Describe procedures to be implemented to manage liquid waste, including collection, containment, storage, treatment, and disposal.	☑	☐	☐			☐	☐			☐	☐
	c) Provide estimated volumes of liquid waste generated by construction activity or project component.	☑	☐	☐			☐	☐			☐	☐
	d) Identify the locations of appropriate disposal facilities where liquid wastes would be transported.	☑	☐	☐			☐	☐			☐	☐
3.5.14.3	**Hazardous Waste**											
	a) Describe potentially hazardous waste streams during construction and procedures to be implemented to manage hazardous wastes, including collection, containment, storage, treatment, and disposal.	☑	☐	☐			☐	☐			☐	☐
	b) If large volumes of hazardous waste are anticipated, such as from a pre-existing contaminant in the soil that must be collected and disposed of, provide estimated volumes of hazardous waste that would be generated by construction activity or project component.	☑	☐	☐			☐	☐			☐	☐

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	c) Identify the locations of appropriate disposal facilities where hazardous wastes would be transported.	☑	☐	☐			☐	☐			☐	☐
3.5.15	**Fire Prevention and Response *(All Projects)***											
3.5.15.1	**Fire Prevention and Response Procedures.** Describe fire prevention and response procedures that would be implemented during construction. Provide a Construction Fire Prevention Plan or specific procedures as an Appendix to the PEA.	☑	☐	☐			☐	☐			☐	☐
3.5.15.2	**Fire Breaks.** Identify any fire breaks (i.e., vegetation clearance) requirements around specific project activities (i.e., hot work). Ensure that such clearance buffers are included in the limits of the defined work areas, and the vegetation removal in that area is attributed to Fire Prevention and Response (refer to 3.5.4.3: Vegetation Clearing).	☑	☐	☐			☐	☐			☐	☐
3.6 Construction Workforce, Equipment, Traffic, and Schedule												
3.6.1	**Construction Workforce**											
	a) Provide the estimated number of construction crew members. In the absence of project-specific data, provide estimates based on past projects of a similar size and type.	☑	☐	☐			☐	☐			☐	☐
	b) Describe the crew deployment. Would crews work concurrently (i.e., multiple crews at different sites); would they be phased? How many crews could be working at the same time and where?	☑	☐	☐			☐	☐			☐	☐
	c) Describe the different types of activities to be undertaken during construction, the number of crew members for each activity (i.e. trenching, grading, etc.), and number and types of equipment expected to be used for the activity. Include a written description of the activity.	☑	☐	☐			☐	☐			☐	☐
3.6.2	**Construction Equipment.** Provide a tabular list of the types of equipment expected to be used during construction of the Proposed Project including the horsepower. Define the equipment that would be used by each phase.	☑	☐	☐			☐	☐			☐	☐
3.6.3	**Construction Traffic**	☑										
	a) Describe how the construction crews and their equipment would be transported to and from the proposed Project Site.	☑	☐	☐			☐	☐			☐	☐
	b) Provide vehicle type, number of vehicles, and estimated hours of operation per day, week, and month for each construction activity and phase.	☑	☐	☐			☐	☐			☐	☐
	c) Provide estimated vehicle trips and vehicles miles traveled (VMT) for each construction activity and phase. Provide separate values for construction crews commuting, haul trips, and other types of construction traffic.	☑	☐	☐			☐	☐			☐	☐
3.6.4	**Construction Schedule**											
	a) Provide the proposed construction schedule (e.g., month and year) for each segment or project component, and for each construction activity and phase.	☑	☐	☐			☐	☐			☐	☐
	b) Provide and explain the sequencing of construction activities, and if they would or would not occur concurrently.	☑	☐	☐			☐	☐			☐	☐
	c) Provide the total duration of each construction activity and phase in days or weeks.	☑	☐	☐			☐	☐			☐	☐
	d) Identify seasonal considerations that may affect the construction schedule, such as weather or anticipated wildlife restrictions, etc. The proposed construction should account for such factors.	☑	☐	☐			☐	☐			☐	☐
3.6.5	**Work Schedule**											

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	a) Describe the anticipated work schedule, including the days of the week and hours of the day when work would occur. Clearly state if work would occur at night or on weekends and identify when and where this could occur.	☑	☐	☐			☐	☐			☐	☐
	b) Provide the estimated number of days or weeks that construction activities would occur at each type of work area. For example, construction at a stationary facility or staging area may occur for the entire duration of construction, but construction at individual work areas along a linear project would be limited to a few hours, days or weeks, and only a fraction of the total construction period.	☑	☐	☐			☐	☐			☐	☐
3.7 Post-Construction												
3.7.1	**Configuring and Testing.** Describe the process and duration for post-construction configuring and testing of facilities. Describe the number of personnel and types of equipment that would be involved.	☑	☐	☐			☐	☐			☐	☐
3.7.2	**Landscaping.** Describe any landscaping that would be installed. Provide a conceptual landscape plan that identifies the locations and types of plantings that will be used. Identify whether plantings will include container plants or seeds. Include any water required for landscaping in the description of water use above.	☑	☐	☐			☐	☐			☐	☐
3.7.3	**Demobilization and Site Restoration**											
3.7.3.1	**Demobilization.** Describe the process for demobilization after construction activities, but prior to leaving the work site. For example, describe final processes for removing stationary equipment and materials, etc.	☑	☐	☐			☐	☐			☐	☐
3.7.3.2	**Site Restoration.** Describe how cleanup and post-construction restoration would be performed (i.e., personnel, equipment, and methods) on all project ROWs, sites, and extra work areas. Things to consider include, but are not limited to, restoration of the following:	☑	☐	☐			☐	☐			☐	☐
	a) Restoring natural drainage patterns	☑	☐	☐			☐	☐			☐	☐
	b) Recontouring disturbed soil	☑	☐	☐			☐	☐			☐	☐
	c) Removing construction debris	☑	☐	☐			☐	☐			☐	☐
	d) Vegetation	☑	☐	☐			☐	☐			☐	☐
	e) Permanent and semi-permanent erosion control measures	☑	☐	☐			☐	☐			☐	☐
	f) Restoration of all disturbed areas and access roads, including restoration of any public trails that are used as access, as well as any damaged sidewalks, agricultural infrastructure, or landscaping, etc.	☑	☐	☐			☐	☐			☐	☐
	g) Road repaving and striping, including proposed timing of road restoration for underground construction within public roadways	☑	☐	☐			☐	☐			☐	☐
3.8 Operation and Maintenance												
3.8.1	**Regulations and Standards**											
	a) Identify and describe all regulations and standards applicable to operation and maintenance of project facilities.	☑	☐	☐			☐	☐			☐	☐
	b) Provide a copy of any applicable Wildfire Management Plan and describe any special procedures for wildfire management.	☑	☐	☐			☐	☐			☐	☐
3.8.2	**System Controls and Operation Staff**	☑										

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	a) Describe the systems and methods that the Applicant would use for monitoring and control of project facilities (e.g., on-site control rooms, remote facilities, standard monitoring and protection equipment, pressure sensors, automatic shut-off valves, and site and equipment specific for monitoring and control such as at natural gas well pads).	☑	☐	☐			☐	☐			☐	☐
	b) If new full-time staff would be required for operation and/or maintenance, provide the number of positions and purpose.	☑	☐	☐			☐	☐			☐	☐
3.8.3	**Inspection Programs**											
	a) Describe the existing and proposed inspection programs for each project component, including the type, frequency, and timing of scheduled inspections (i.e., aerial inspection, ground inspection, pipeline inline inspections).	☑	☐	☐			☐	☐			☐	☐
	b) Describe any enhanced inspections, such as within any High Fire Threat Districts consistent with applicable Wildfire Management Plan requirements.	☑	☐	☐			☐	☐			☐	☐
	c) Describe the inspection processes, such as the methods, number of crew members, and how access would occur (i.e., walk, vehicle, allterrain vehicle, helicopter, drone, etc.). If new access would be required, describe any restoration that would be provided for the access roads.	☑	☐	☐			☐	☐			☐	☐
3.8.4	**Maintenance Programs**											
	a) Describe the existing and proposed maintenance programs for each project component.	☑	☐	☐			☐	☐			☐	☐
	b) Describe scheduled maintenance or facility replacement after the designated lifespan of the equipment.	☑	☐	☐			☐	☐			☐	☐
	c) Identify typical parts and materials that require regular maintenance and describe the repair procedures.	☑	☐	☐			☐	☐			☐	☐
	d) Describe any access road maintenance that would occur.	☑	☐	☐			☐	☐			☐	☐
	e) Describe maintenance for surface or color treatment.	☑	☐	☐			☐	☐			☐	☐
	f) Describe cathodic protection maintenance that would occur.	☑	☐	☐			☐	☐			☐	☐
	g) Describe ongoing landscaping maintenance that would occur.	☑	☐	☐			☐	☐			☐	☐
3.8.5	**Vegetation Management Programs**											
	a) Describe vegetation management programs within and surrounding project facilities. Distinguish between any different types of vegetation management.	☑	☐	☐			☐	☐			☐	☐
	b) Describe any enhanced vegetation management, such as within any High Fire Threat Districts consistent with any applicable Wildfire Management Plan requirements. Identify the areas where enhanced vegetation management would be conducted.	☑	☐	☐			☐	☐			☐	☐
3.9 Decommissioning												
3.9.1	**Decommissioning.** Provide detailed information about the current and reasonably foreseeable plans for the disposal, recycling, or future abandonment of all project facilities.	☑	☐	☐			☐	☐			☐	☐
3.10 Anticipated Permits and Approvals												
3.10.1	**Anticipated Permits and Approvals.** Identify all necessary federal, state, regional, and local permits that may be required for the project. For each permit, list the responsible agency and district/office representative with contact information, type of permit or approval, and status of each permit with date filed or planned to file.	☑	☐	☐			☐	☐			☐	☐

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3.10.2	**Rights-of-Way or Easement Applications.** Demonstrate that applications for ROWs or other proposed land use have been or soon will be filed with federal, state, or other land-managing agencies that have jurisdiction over land that would be affected by the project (if any). Discuss permitting plans and timeframes and provide the contact information at the federal agency(ies) approached.	☑	☐	☐			☐	☐			☐	☐
3.11 Applicant Proposed Measures												
3.11	**Applicant Proposed Measures**						☐	☐			☐	☐
	a) Provide a table with the full text of any Applicant Proposed Measure. Where applicable, provide a copy of Applicant procedures, plans, and standards referenced in the Applicant Proposed Measures.	☐	☑	☐			☐	☐			☐	☐
	b) Within Chapter 5, describe the basis for selecting a particular Applicant Proposed Measure and how the Applicant Proposed Measure would reduce the impacts of the project.	☑	☐	☐			☐	☐			☐	☐
	c) Carefully consider each CPUC Draft Environmental Measure identified in Chapter 5 of this PEA Checklist. The CPUC Draft Environmental Measures will be applied to the Proposed Project where applicable.	☑	☐	☐			☐	☐			☐	☐
3.12 Project Description Graphics, Mapbook, and GIS Requirements												
3.12.1	**Graphics.** Provide diagrams of the following as applicable:											
	a) All pole, tower, pipe, vault, conduit, and retaining wall types	☑	☐	☐			☐	☐			☐	☐
	b) For poles, provide typical drawings with approximate diameter at the base and tip; for towers, estimate the width at base and top.	☑	☐	☐			☐	☐			☐	☐
	c) A typical detail for any proposed underground duct banks and vaults	☐	☐	☑			☐	☐			☐	☐
	d) All substation, switchyard, building, and facility layouts	☐	☐	☑			☐	☐			☐	☐
	e) Trenching, drilling, pole installation, pipe installation, vault installation, roadway construction, facility removal, helicopter uses, conductor installation, traffic control, and other construction activities where a diagram would assist the reader in visualizing the work area and construction approach	☑	☐	☐			☐	☐			☐	☐
	f) Typical profile views of proposed aboveground facilities and existing facilities to be modified within the existing and proposed ROW (e.g., typical cross-section of existing and proposed facilities by project segment).	☑	☐	☐			☐	☐			☐	☐
	g) Photos of representative existing and proposed structures	☑	☐	☐			☐	☐			☐	☐
3.12.2	**Mapbook.** Provide a detailed mapbook on an aerial imagery basemap at a scale between 1:3000 and 1:6000 (or as appropriate and legible) that show mileposts, roadways, and all project components and work areas including:											
	a) All proposed above-ground and underground structure/facility locations (e.g., poles, conductor, substations, compressor stations, telecommunication lines, vaults, duct bank, lighting, markers, etc.)	☑	☐	☐			☐	☐			☐	☐
	b) All existing structures/facilities that would be modified or removed	☐	☐	☑			☐	☐			☐	☐
	c) Identify by milepost where existing ROW will be used and where new ROW or land acquisition will be required.	☑	☐	☐			☐	☐			☐	☐
	d) All permanent work areas including permanent facility access	☑	☐	☐			☐	☐			☐	☐
	e) All access roads including, existing, temporary, and new permanent access	☑	☐	☐			☐	☐			☐	☐

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	f) All temporary work areas including staging, material storage, field offices, material laydown, temporary work areas for above ground (e.g., pole installation) and underground facility construction (e.g., trenching and duct banks), helicopter landing zones, pull and tension sites, guard structures, shoo flys etc.	☑	☐	☐			☐	☐			☐	☐
	g) Areas where special construction methods (e.g., jack and bore, HDD, blasting, retaining walls etc.) may need to be employed	☐	☑	☐	Areas proposed for blasting are not indicated		☐	☐			☐	☐
	h) Areas where vegetation removal may occur	☐	☑	☐	If applicable		☐	☐			☐	☐
	i) Areas to be heavily graded and where slope stabilization measures would be employed including any retaining walls	☐	☐	☑			☐	☐			☐	☐
3.12.3	**GIS Data.** Provide GIS data for all features and ROW shown on the detailed mapbook.	☑	☐	☐			☐	☐			☐	☐
3.12.4	**GIS Requirements.** Provide the following information for each pole/tower that would be installed and for each pole/tower that would be removed:											
	a) Unique ID number and type of pole (e.g., wood, steel, etc.) or tower (e.g., self-supporting lattice) both in a table and in the attributes of the GIS data provided	☑	☐	☐			☐	☐			☐	☐
	b) Identify pole/tower heights and conductor sizes in the attributes of the GIS data provided.	☑	☐	☐			☐	☐			☐	☐
3.12.5	**Natural Gas Facilities GIS Data.** For natural gas facilities, provide GIS data for system cross ties and all laterals/taps, valve stations, and new and existing inspection facilities (e.g., pig launcher sites).	☐	☐	☑			☐	☐			☐	☐