

## **APPENDIX D6 – SIMULATIONS**

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**Note: Simulations 12-22, 25, and 26 were prepared for Route Group 2 alternatives, and are not included in this volume.**

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# SUNZIA SOUTHWEST TRANSMISSION PROJECT

## Simulation Points

### Project Features

-  Route Group 1
-  Route Group 3
-  Route Group 4
-  Eliminated Routes
-  Simulation Points
-  Substation Site

### General Reference Features

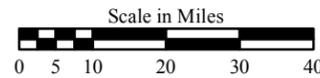
-  City
-  State Highway
-  U.S. Highway
-  Interstate
-  County Boundary
-  Lake/Reservoir

### Land Ownership

-  Bureau of Land Management
-  U.S. Department of Defense
-  McGregor Range Withdrawal
-  National Park Service
-  U.S. Forest Service
-  U.S. Fish and Wildlife Service
-  U.S. Bureau of Reclamation
-  Federal (Other)
-  Indian Reservation
-  State
-  Private/Other

### Sources

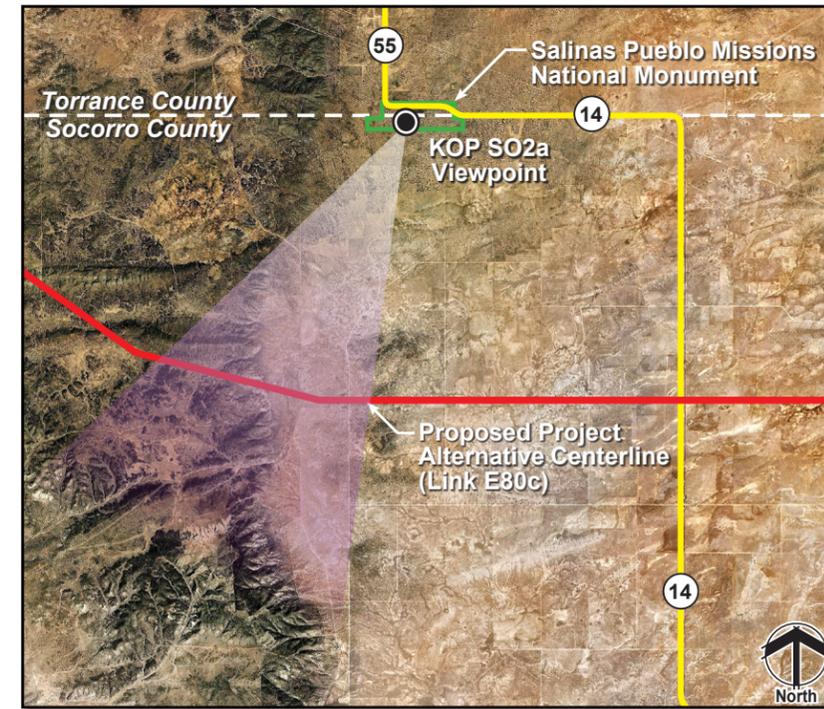
- Arizona Bureau of Land Management 2010
- Arizona State Land Department and ALRIS 2010
- New Mexico Bureau of Land Management 2009
- ESRI StreetMap 2010
- EPG, Inc. 2010



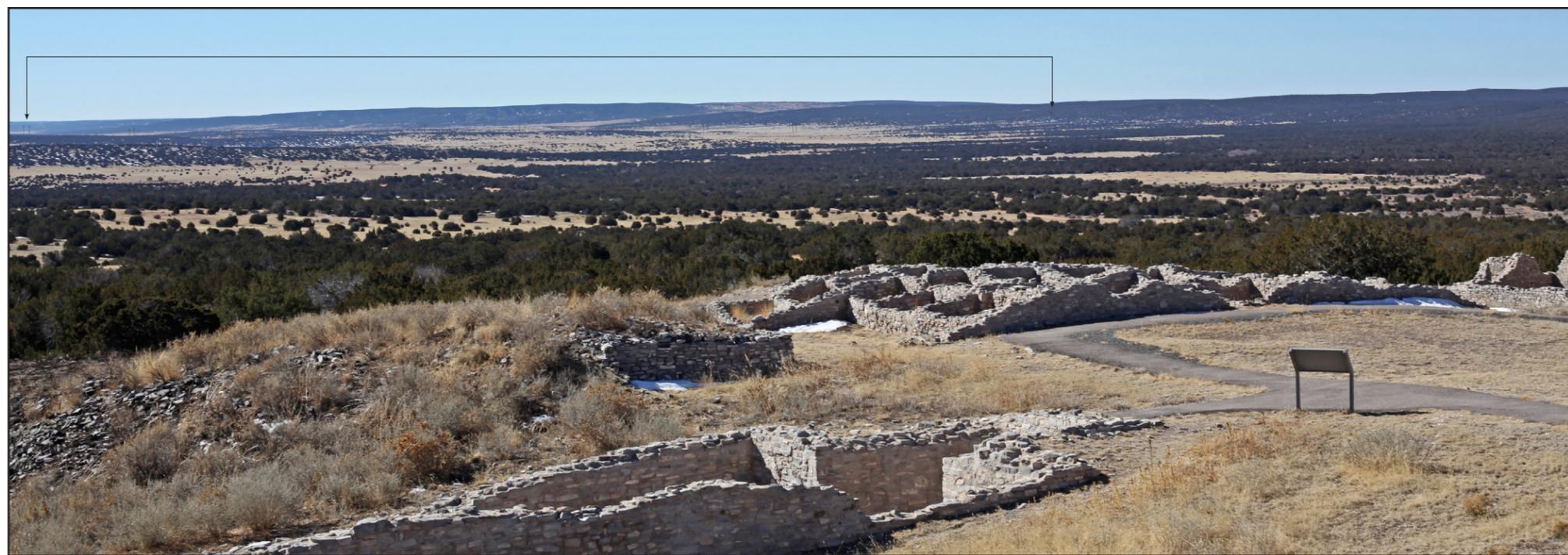
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**Existing Condition** – View southwest from the Gran Quivira Ruins within the Salinas Pueblo Missions National Monument (KOP SO2a) toward Chupadera Mesa.



**Photograph Location:** Viewpoint is approximately 6.0 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram) based on standard mitigation measures and typical spans. Portions of the Project would be seen from a superior viewing position in a setting where cultural modifications are not evident.

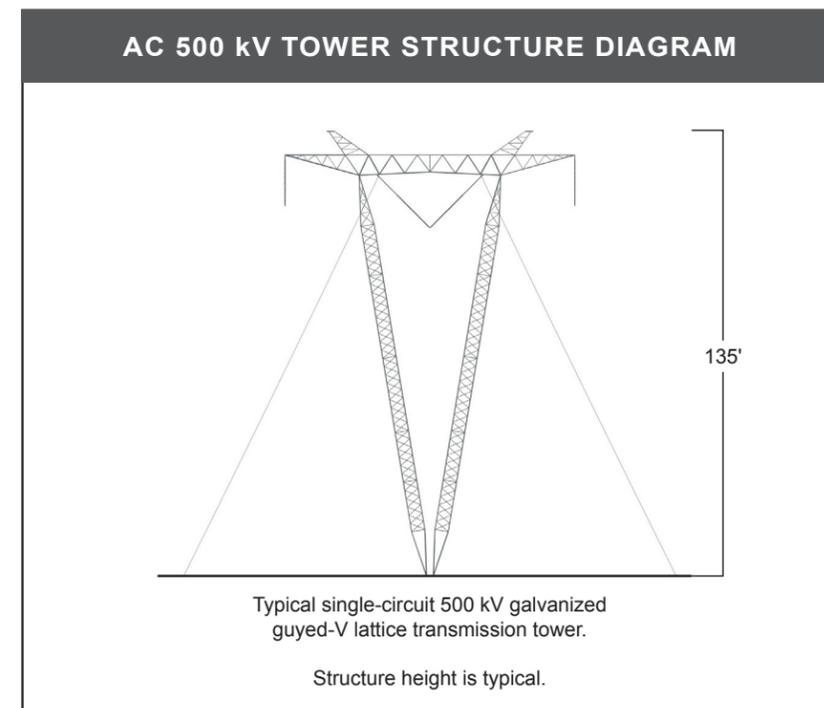


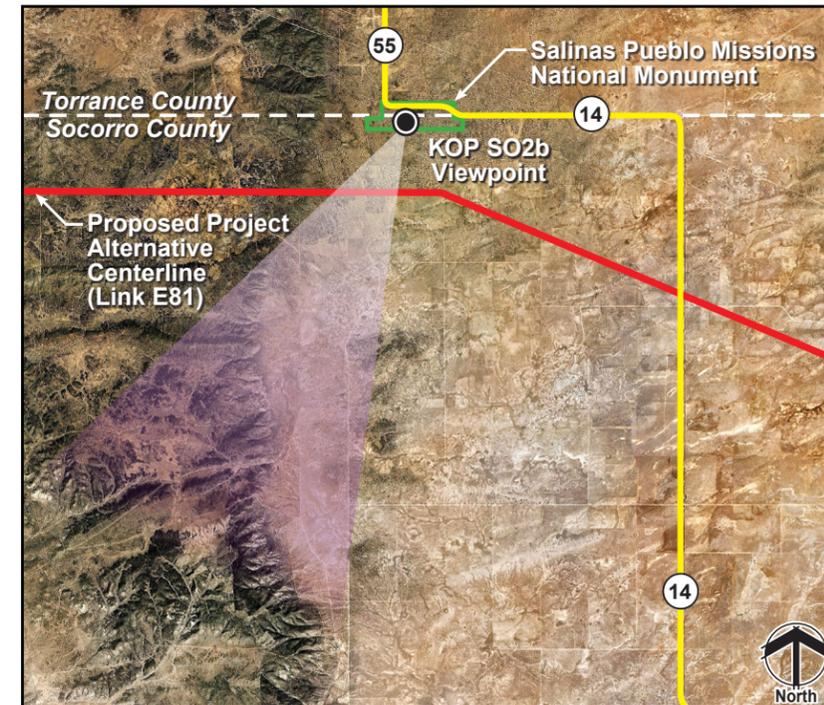
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 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View southwest from the Gran Quivira Ruins within the Salinas Pueblo Missions National Monument (KOP SO2b) toward Chupadera Mesa.



**Photograph Location:** Viewpoint is approximately 2.0 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram) based on standard mitigation measures and typical spans. Portions of the Project would be seen from a superior viewing position in a setting where cultural modifications are not evident.

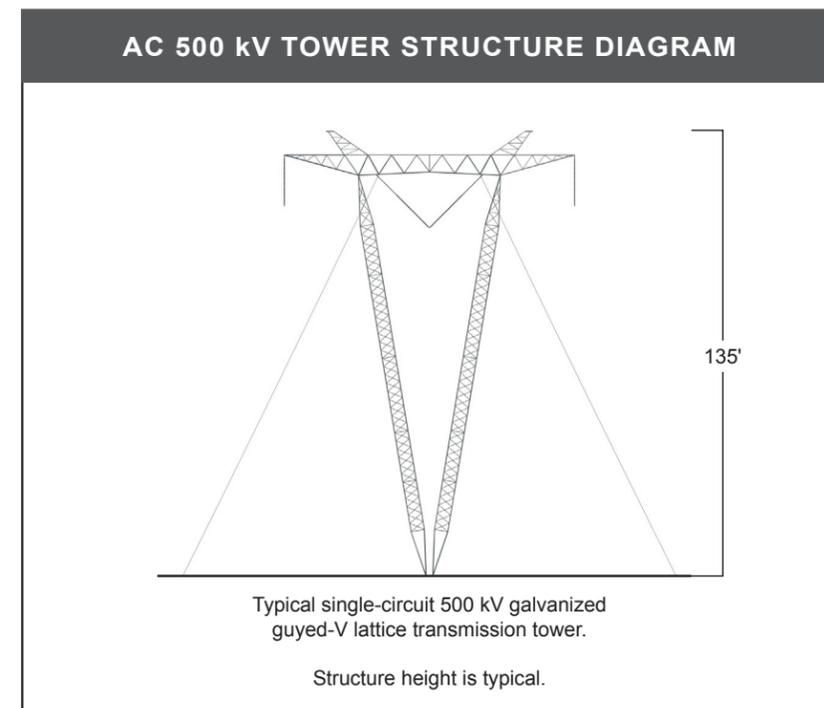


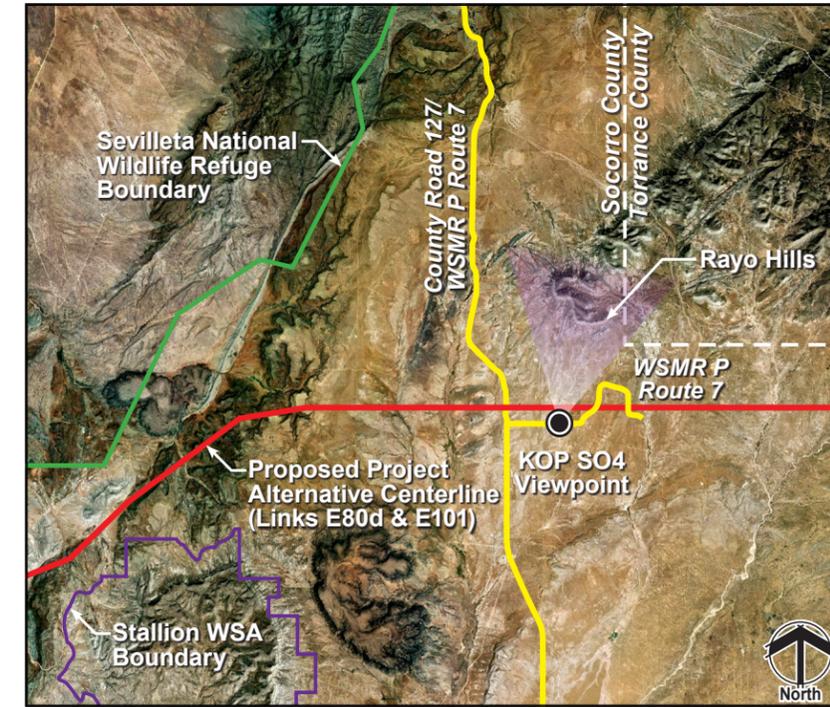
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 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from a residence along WSMR P Route 7 (KOP SO4) located east of the Sevilleta NWR. Adjacent scenery includes Rayo Hills.



**Photograph Location:** Viewpoint is approximately 0.5 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. Portions of the Project would be seen crossing BLM Class IV land in a partially skylined condition. Recommended selective mitigation measure #7 would reduce visual contrast.

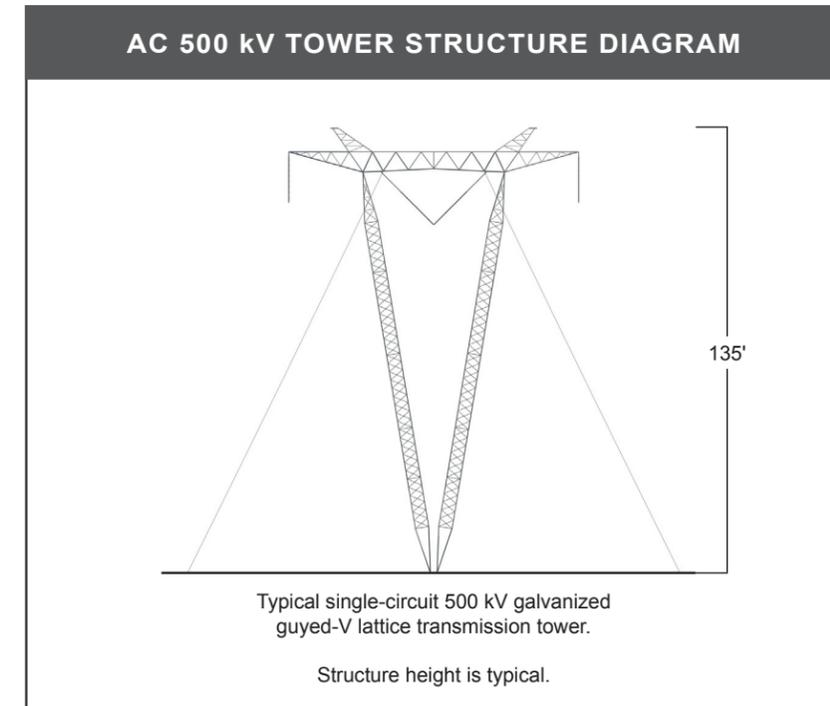


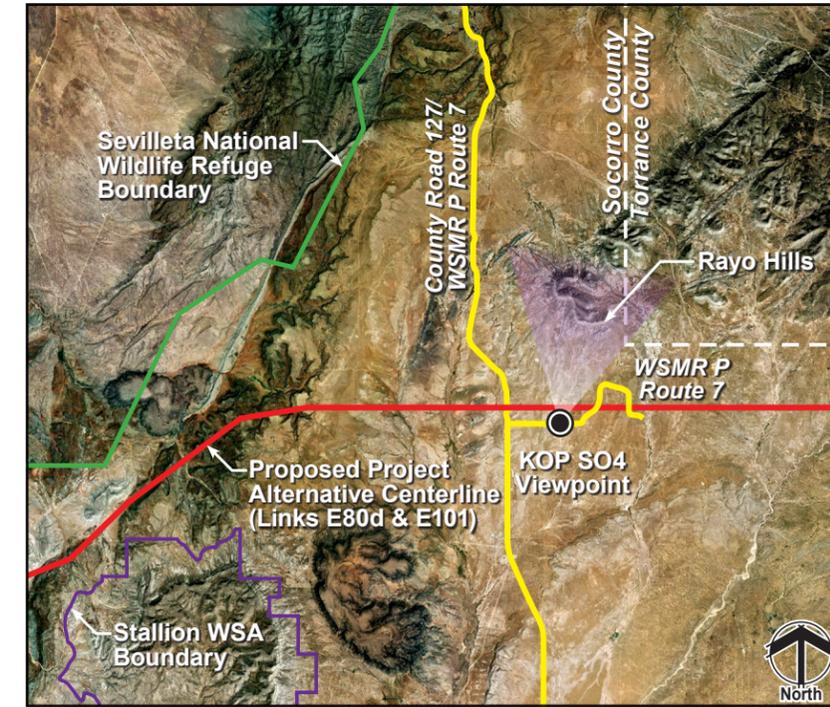
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 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from a residence along WSMR P Route 7 (KOP SO4) located east of the Seville NWR. Adjacent scenery includes Rayo Hills.



**Photograph Location:** Viewpoint is approximately 0.5 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including selective mitigation measures and typical spans. Portions of the Project would be seen crossing BLM Class IV land in a partially skylined condition.

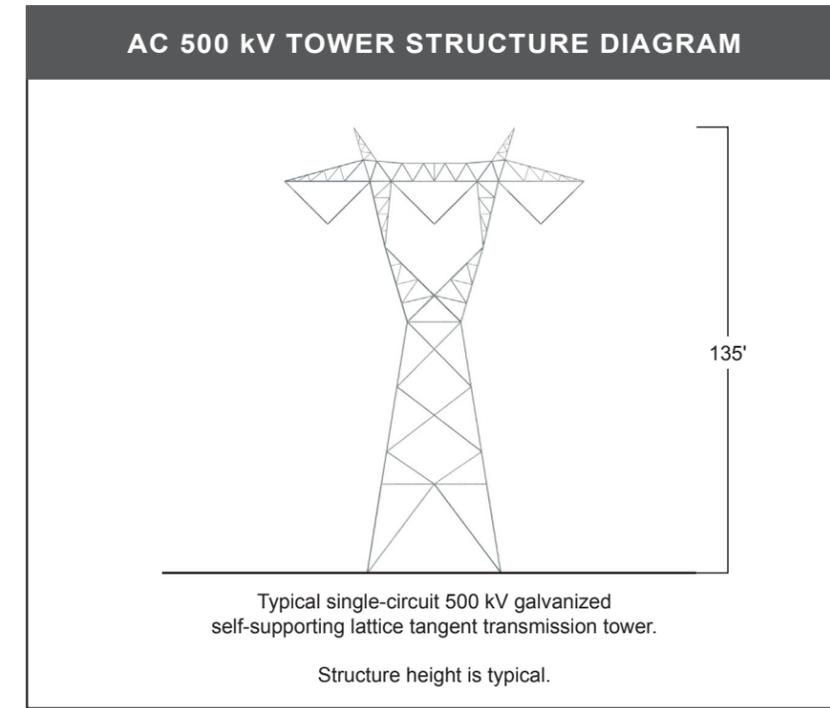


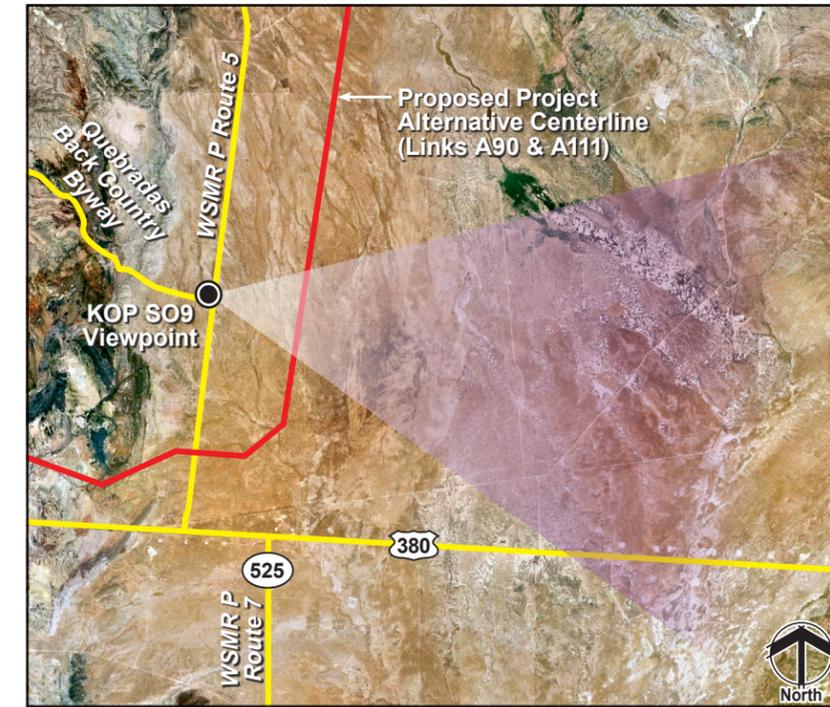
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 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View east from the Quebradas Back Country Byway near its intersection with WSMR P Route 5 (KOP SO9). Adjacent scenery includes the Oscura Mountains.



**Photograph Location:** Viewpoint is approximately 1.2 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. Structures would be seen as the Project crosses BLM Class III Land.

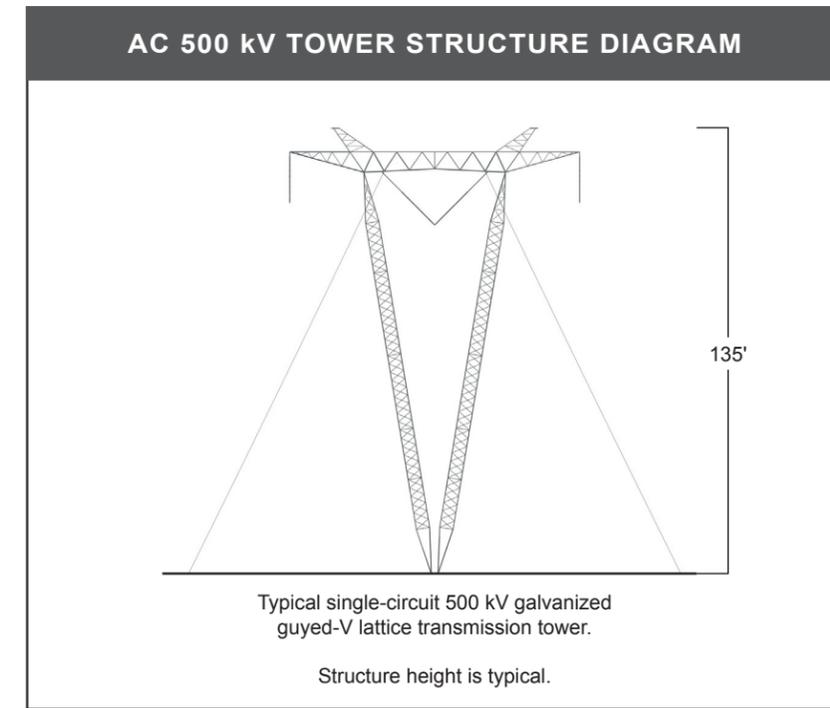


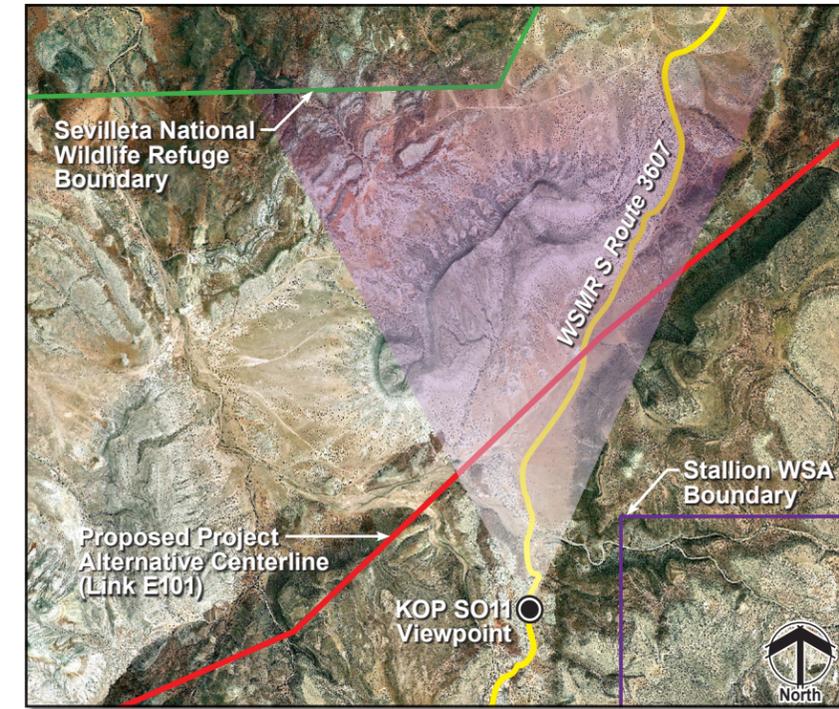
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 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from WSMR S Route 3607 (KOP SO11), of landforms south of the Sevilleta National Wildlife Refuge and west of the Stallion WSA.



**Photograph Location:** Viewpoint is approximately 0.9 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. Portions of the Project would be skylined with remaining portions backdropped. Structures would be seen as the Project crosses BLM Class III Land. Recommended selective mitigation measure #7 would reduce visual contrast.

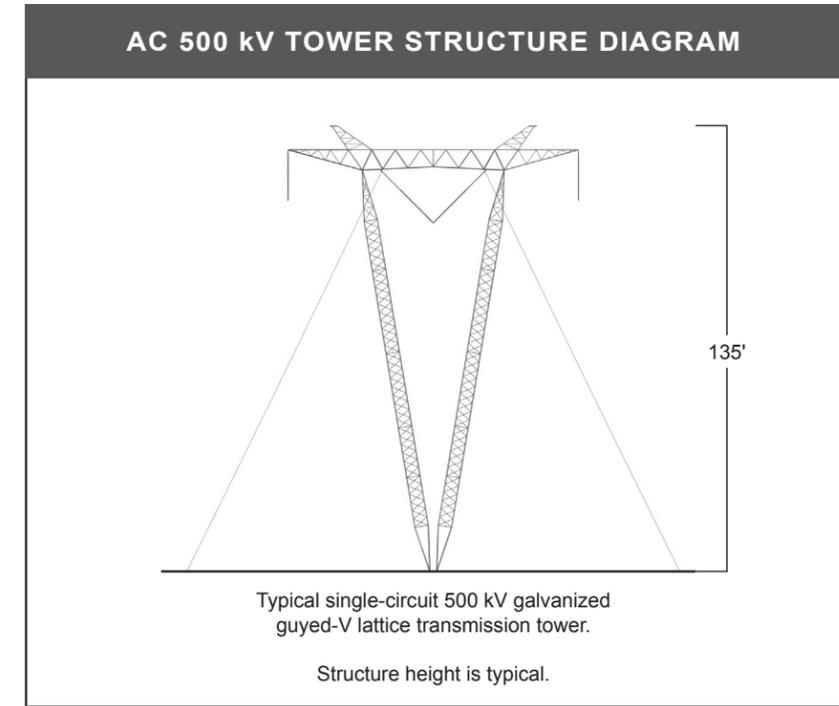


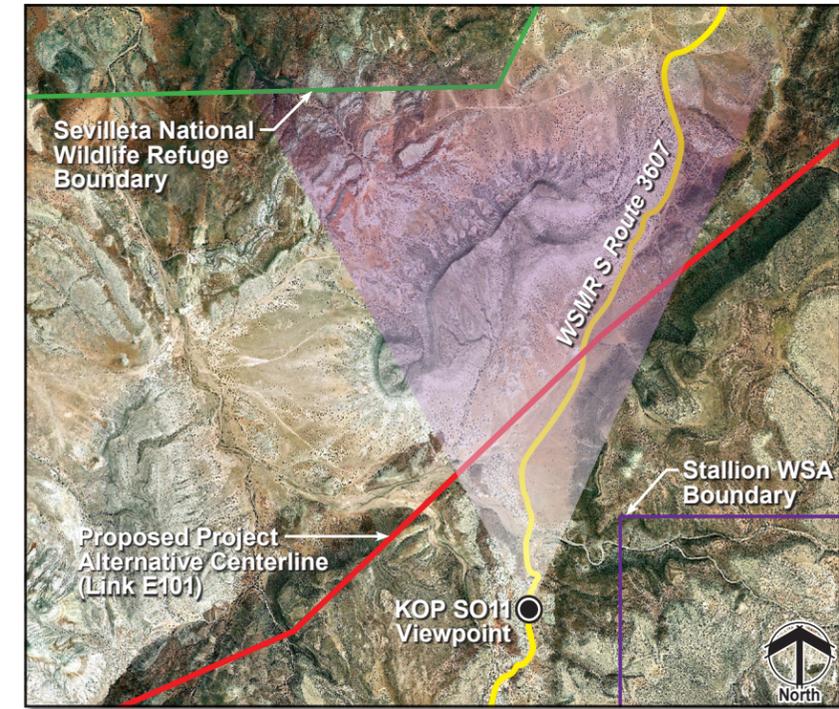
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 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from WSMR S Route 3607 (KOP SO11), of landforms south of the Sevilleta National Wildlife Refuge and west of the Stallion WSA.



**Photograph Location:** Viewpoint is approximately 0.9 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including selective mitigation measures and typical spans. Portions of the Project would be skylined with remaining portions backdropped. Structures would be seen as the Project crosses BLM Class III Land.

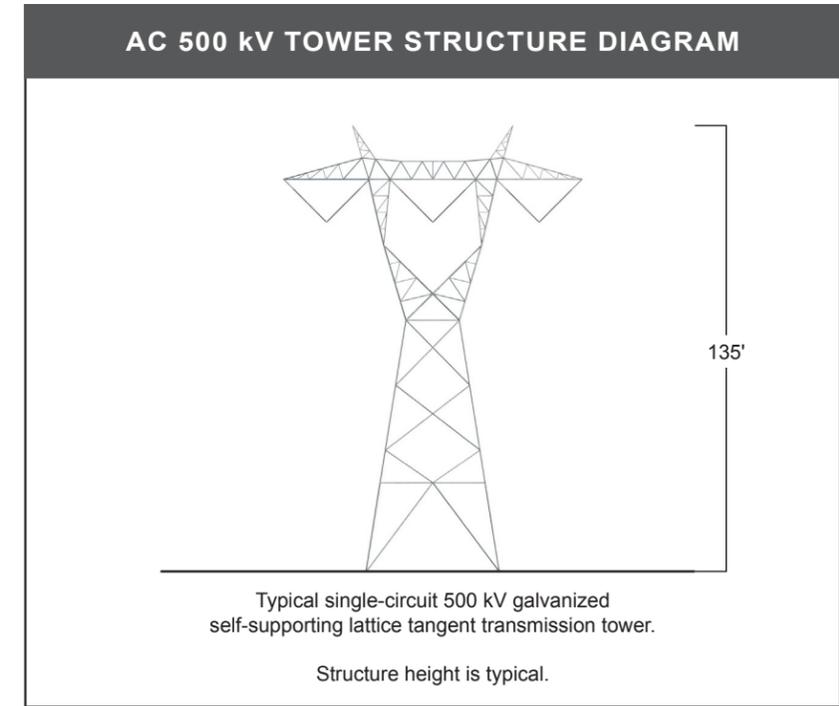


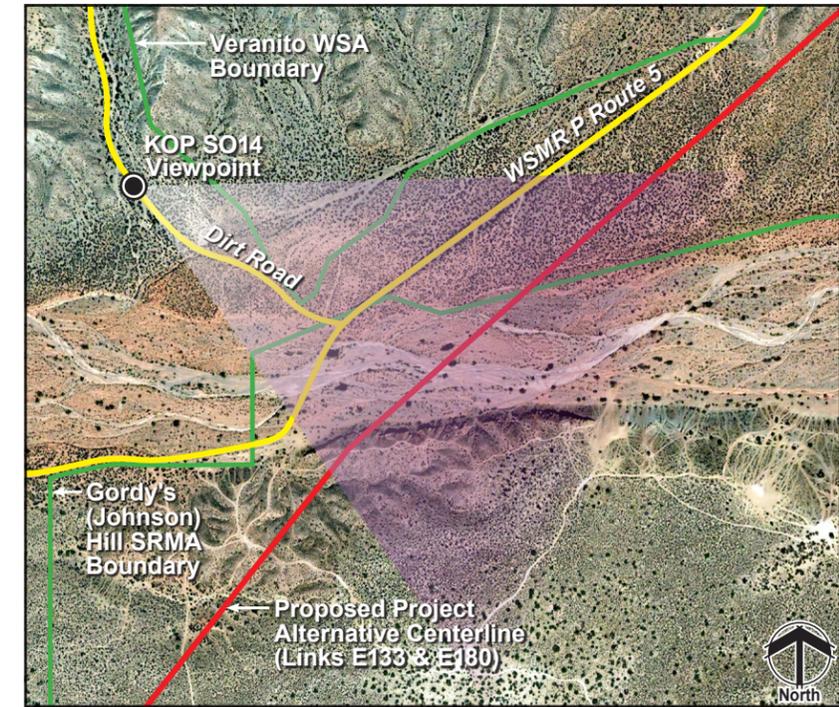
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 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View traveling southeast toward WSMR P Route 5 and Gordy's (Johnson) Hill SRMA (KOP SO14).



**Photograph Location:** Viewpoint is approximately 0.4 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. Portions of the Project would be skylined within the SRMA. Recommended selective mitigation measure #7 would reduce visual contrast.

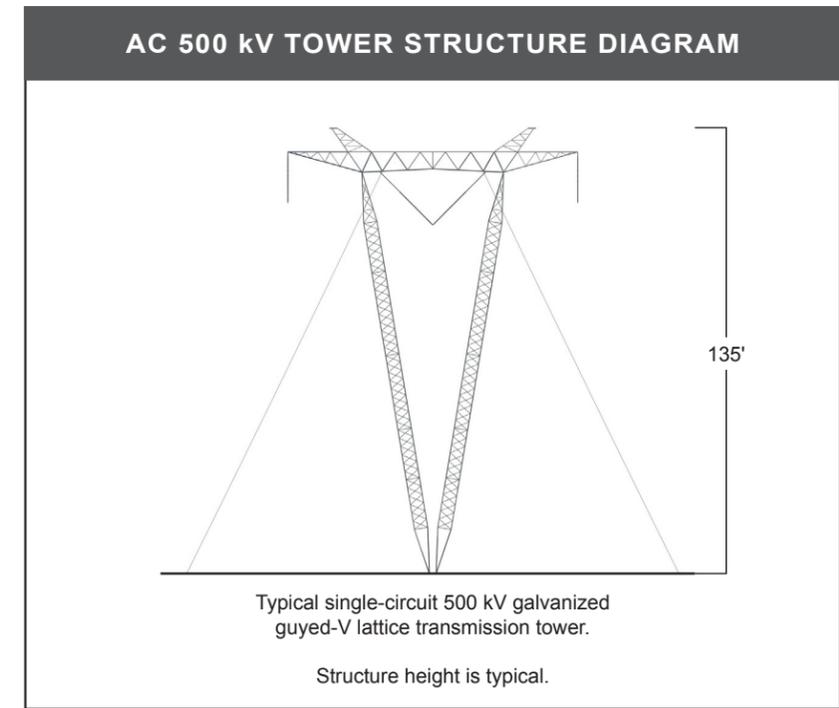


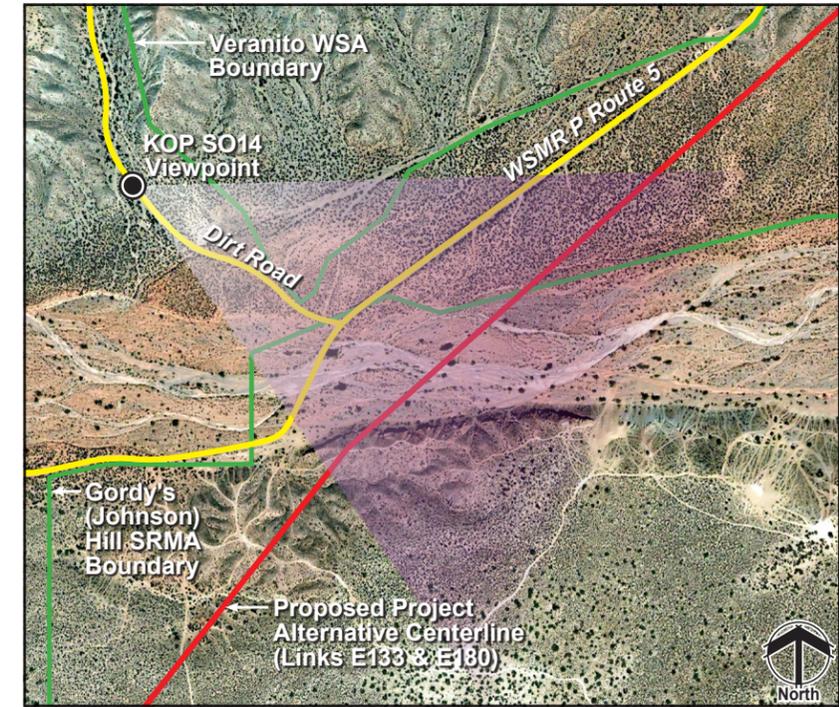
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 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View traveling southeast toward WSMR P Route 5 and Gordy's (Johnson) Hill SRMA (KOP SO14).



**Photograph Location:** Viewpoint is approximately 0.4 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including selective mitigation measures and typical spans. Portions of the Project would be skylined within the SRMA.

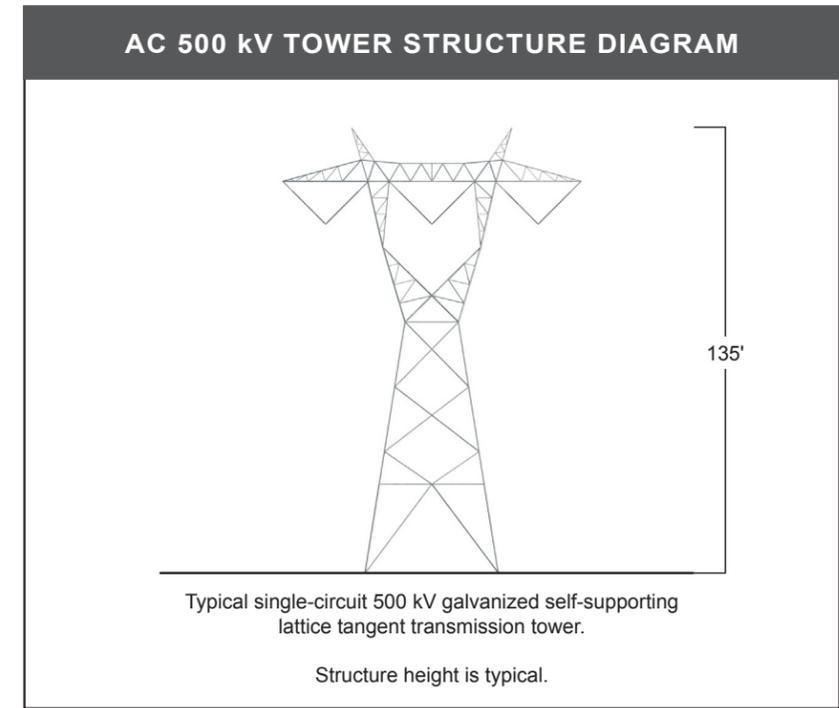


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Simulations were prepared using three-dimensional structure models provided by the owner's engineer. Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground. Facility locations, colors, and heights will differ based on final engineering and design.



**SunZia Southwest Transmission Line Project**

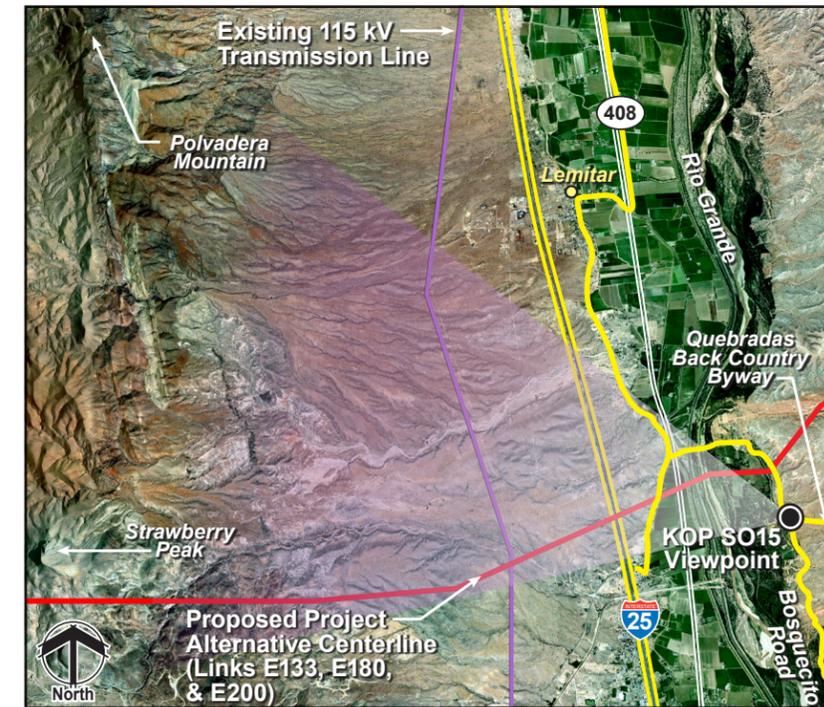
**Simulation 5b**

April 2012

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**Existing Condition** – View northwest toward the Rio Grande Valley north of Socorro, New Mexico, from the Quebradas Back Country Byway (KOP SO15). Adjacent scenery includes the Rio Grande Valley, Strawberry Peak, Polvadera Mountain, and portions of the Magdalena Mountains.



**Photograph Location:** Viewpoint is approximately 1.1 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures and typical spans. The Project would be seen from a superior viewing condition crossing BLM Class IV Land.

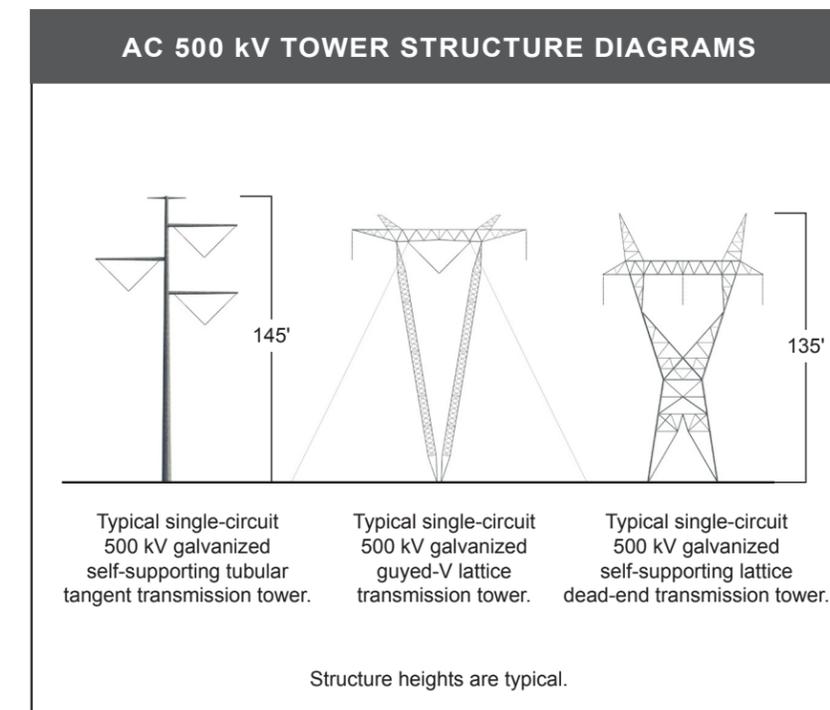


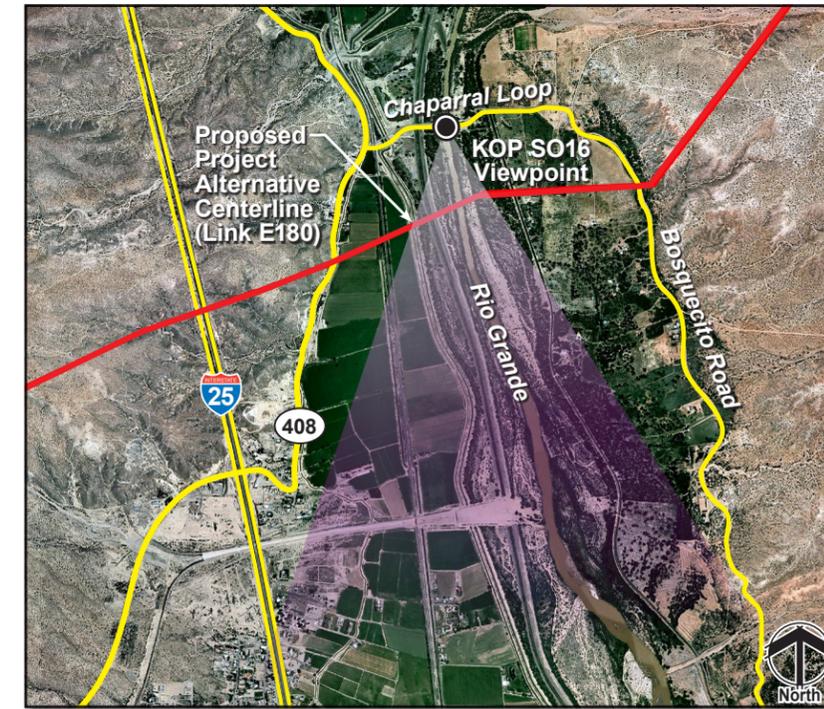
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 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View south down the Rio Grande (KOP SO16) from Bosquecito Road, part of the Chaparral Loop Bridge, north of Socorro. Recreation viewers along the river are associated with a high concern level.



**Photograph Location:** Viewpoint is approximately 0.3 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. Portions of the Project would be seen above and through breaks in the riparian vegetation, resulting in partially skylined conditions. Selective mitigation measures #10 and #14 would reduce visual contrast (shown).

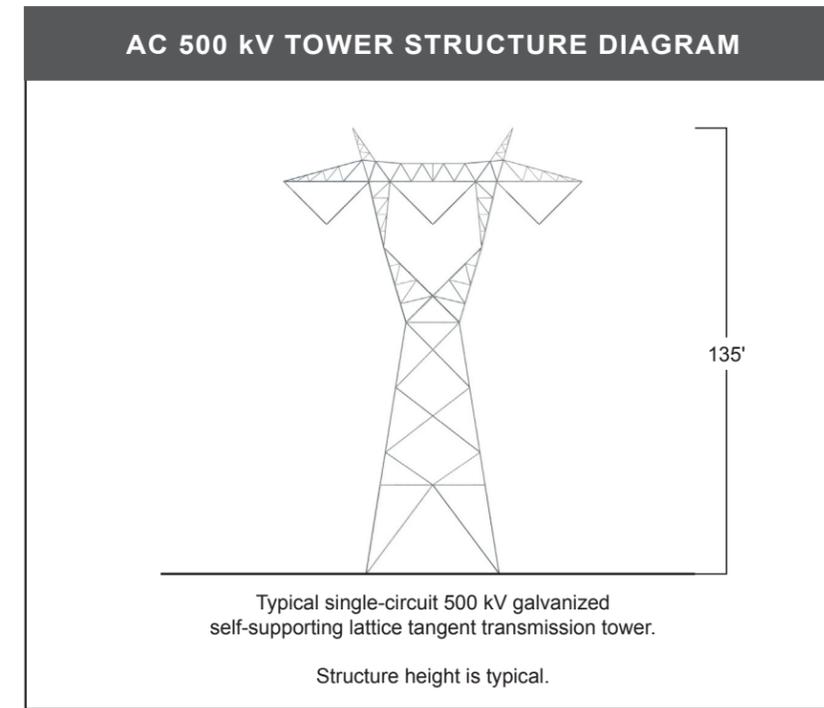


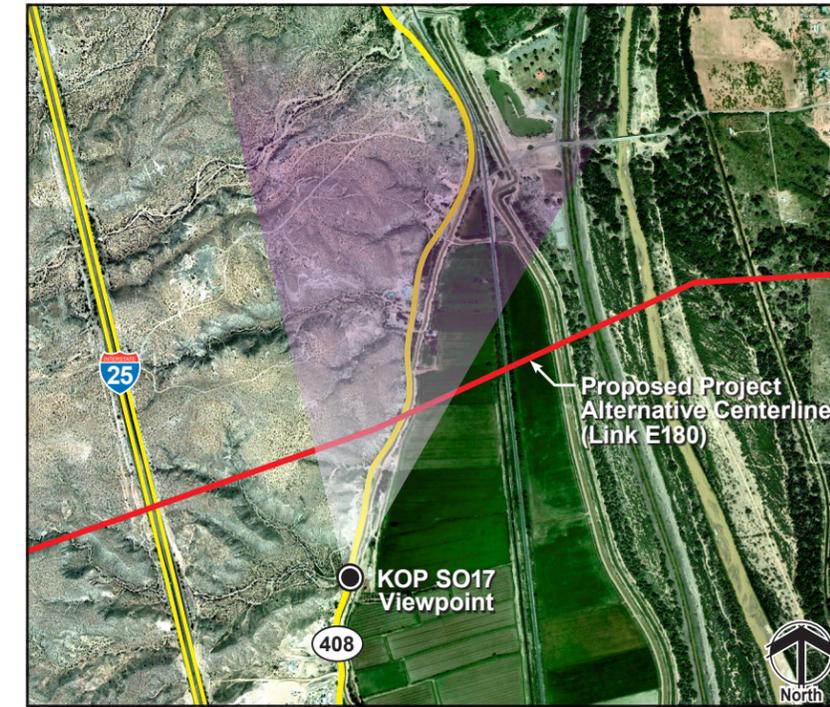
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 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from New Mexico SR 408 (KOP SO17), part of the El Camino Real National Scenic Byway, north of Socorro.



**Photograph Location:** Viewpoint is approximately 0.3 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures and typical spans. Portions of the Project would be skylined as it crosses BLM VRM Class IV designated land in a modified landscape setting. Selective mitigation measure #10 would reduce visual contrast (shown).

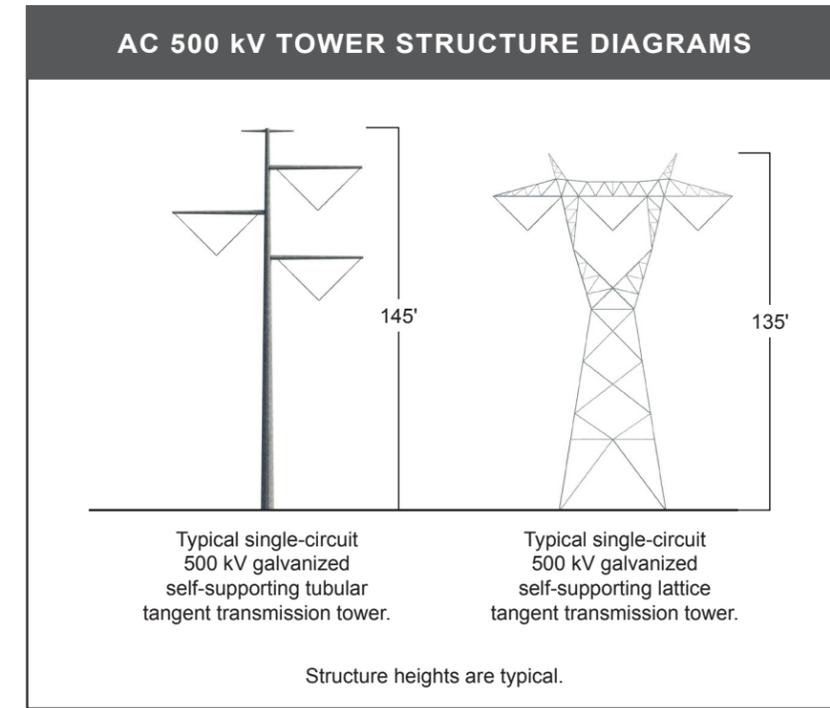


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 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View southeast toward residences through the Rio Grande Valley north of San Antonio, New Mexico, along SR 1 (KOP SO20). Existing distribution lines, residences, and agricultural development modify the existing landscape setting within the river valley with a natural landscape setting on the east of the valley, as the Project traverses BLM VRM Class II lands.



**Photograph Location:** Viewpoint is approximately 0.7 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures. The Project would be partially backdropped, with a portion of the Project skylined and construction access visible through the BLM VRM Class II lands.

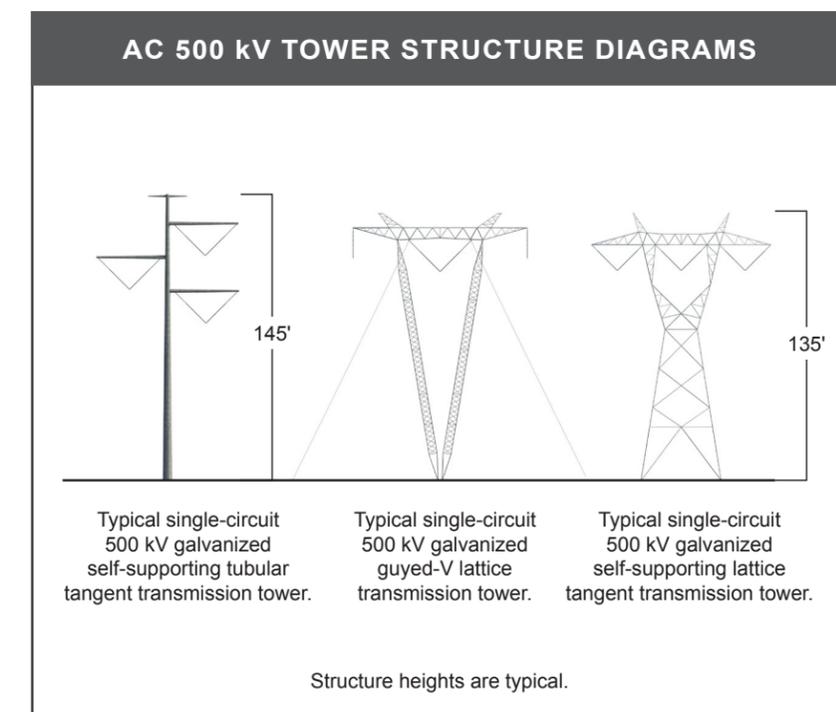


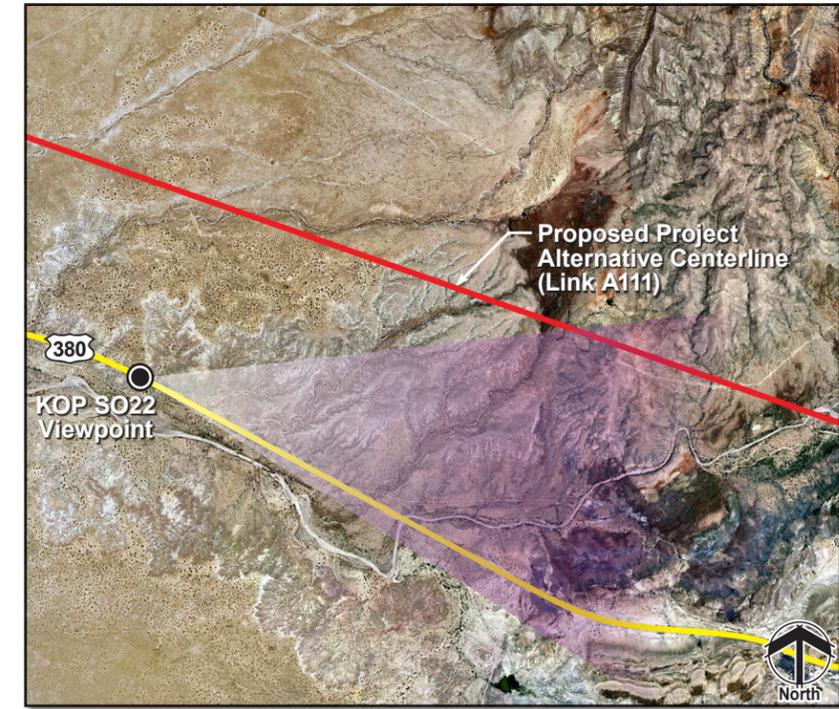
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 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View east from US Route 380 (KOP SO22), within the San Pedro ACEC, east of San Antonio, New Mexico.



**Photograph Location:** Viewpoint is approximately 1.6 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. The Project is intermittently screened as it parallels US Route 380 through BLM VRM Class II and III designations.

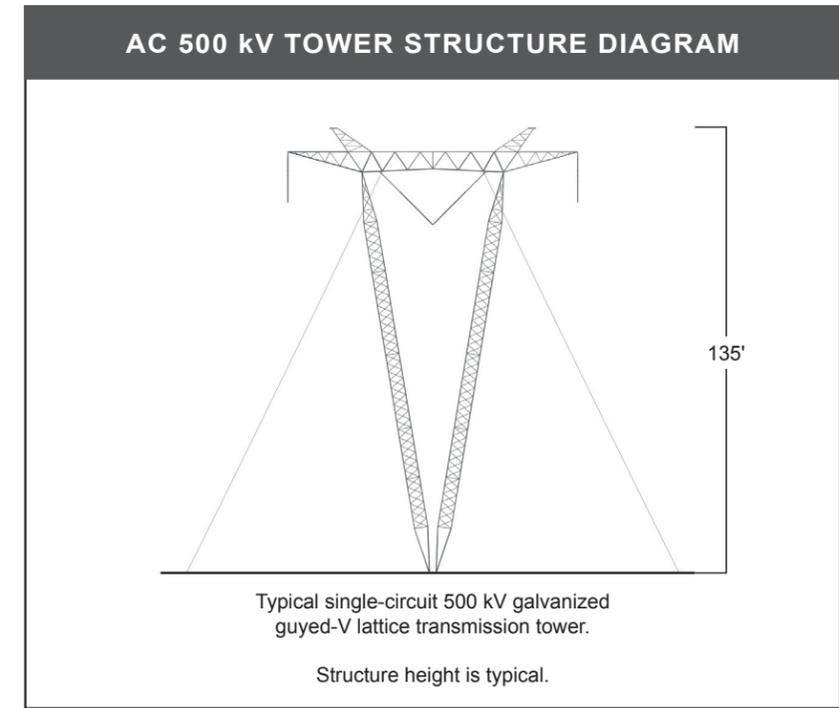


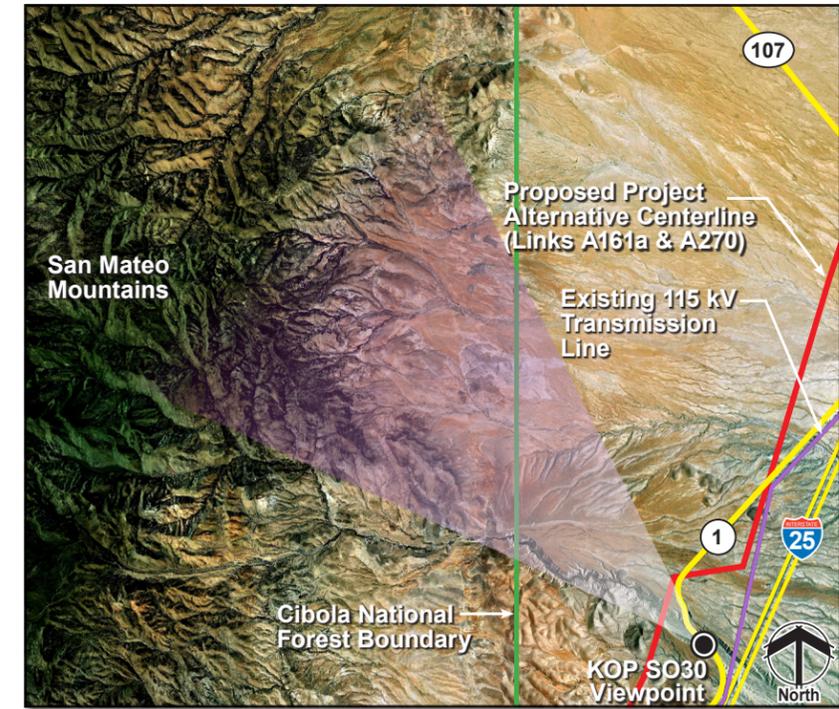
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 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View northwest from SR 1, a portion of the El Camino Real National Byway (KOP SO30) within Nogal Canyon. Adjacent scenery includes the San Mateo Mountains.



**Photograph Location:** Viewpoint is approximately 0.9 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. Inferior view of the Project, which would be partially skylined.

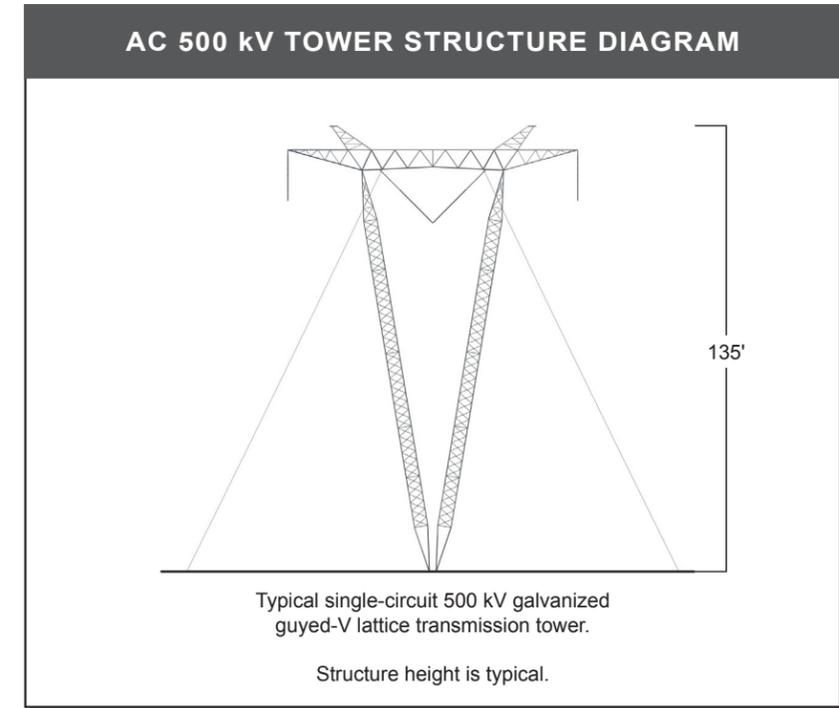


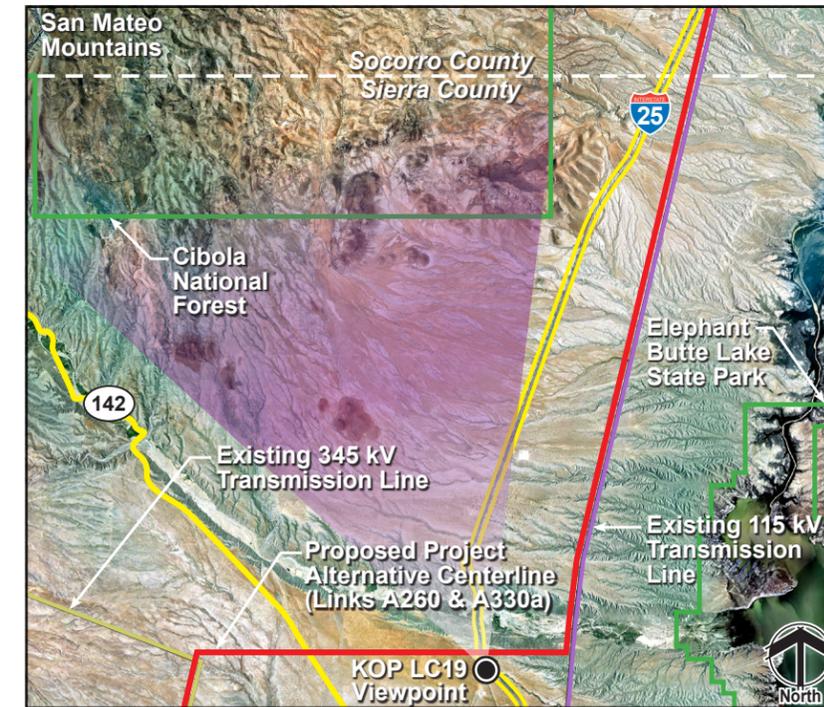
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 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from I-25 (KOP LC19), which is part of the El Camino Real National Scenic Byway, from BLM VRM Class III land. Adjacent terrain includes the San Mateo Mountains, Vicks Peak, and Monticello Canyon.



**Photograph Location:** Viewpoint is approximately 0.2 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. Portions of the Project would be skylined when crossing this scenic travel route on BLM VRM Class III land. Selective mitigation measure #10 would reduce visual contrast (shown).

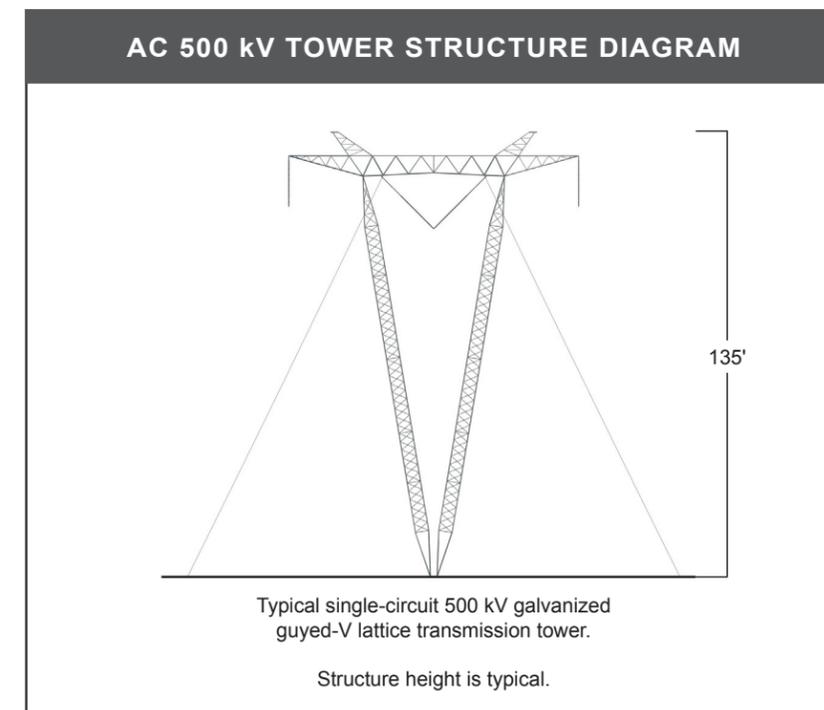


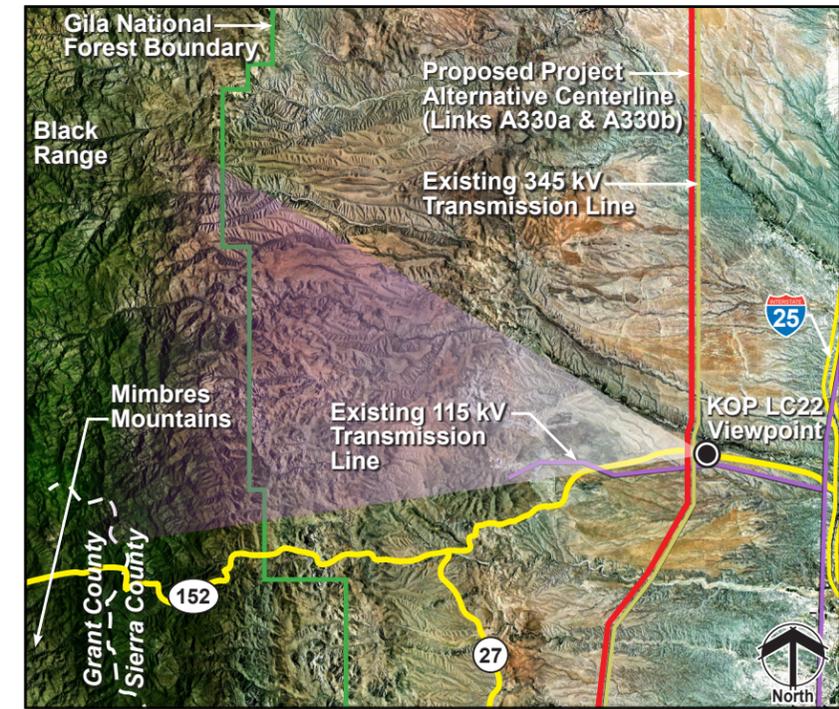
Photo Date and Time: 2-18-11, 8:36 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View west from Lake Valley Back Country Byway/Geronimo National Scenic Byway (KOP LC22) from BLM VRM Class III land. Existing 345 kV and 115 kV transmission lines cross and parallel this travel route. Adjacent scenery includes the Mimbres Mountains within the Black Range.



**Photograph Location:** Viewpoint is approximately 0.5 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. The Project would parallel an existing 345 kV transmission line when crossing this scenic travel route on BLM VRM Class III land; however, a portion of the route would be skyline. Selective mitigation measure #10 would reduce visual contrast.

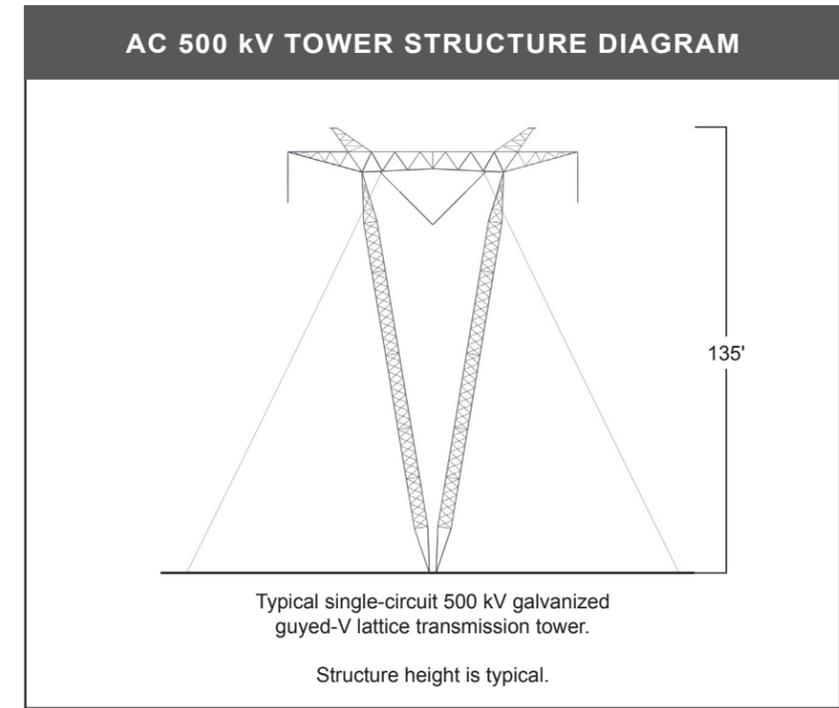


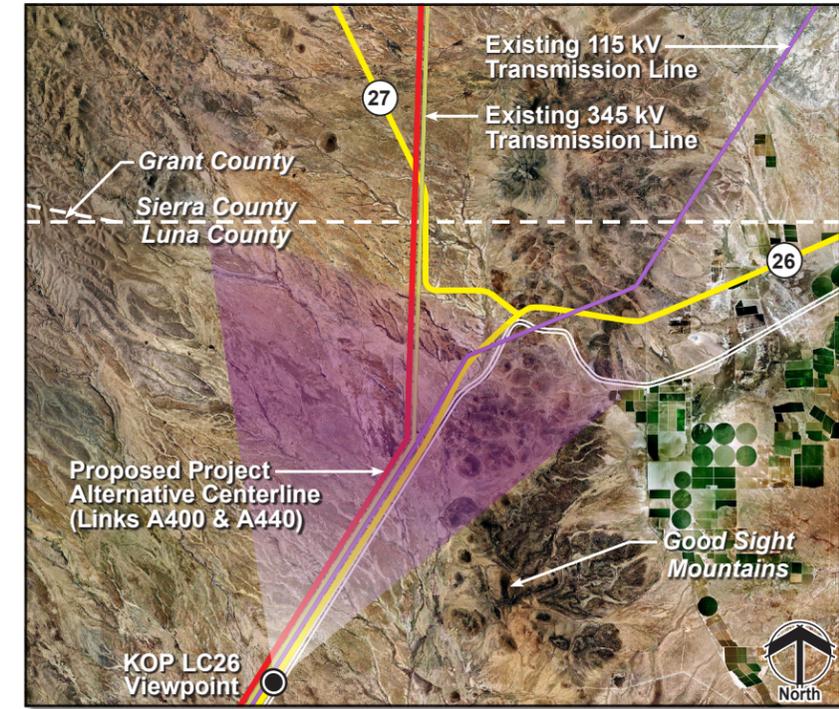
Photo Date and Time: 2-18-11, 9:28 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View northeast along SR 26 (KOP LC26), where the historic Butterfield Trail crosses BLM VRM Class II land. Existing 115 kV and 345 kV transmission lines parallel this travel route. Adjacent scenery includes Cookes Range and the Good Sight Mountains.



**Photograph Location:** Viewpoint is approximately 0.2 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. The Project would parallel existing transmission lines when crossing the historic Butterfield Trail on BLM VRM Class II land; however, the Project would be skyline. The Project would cross BLM VRM Class III lands for other portions of this alternative link.

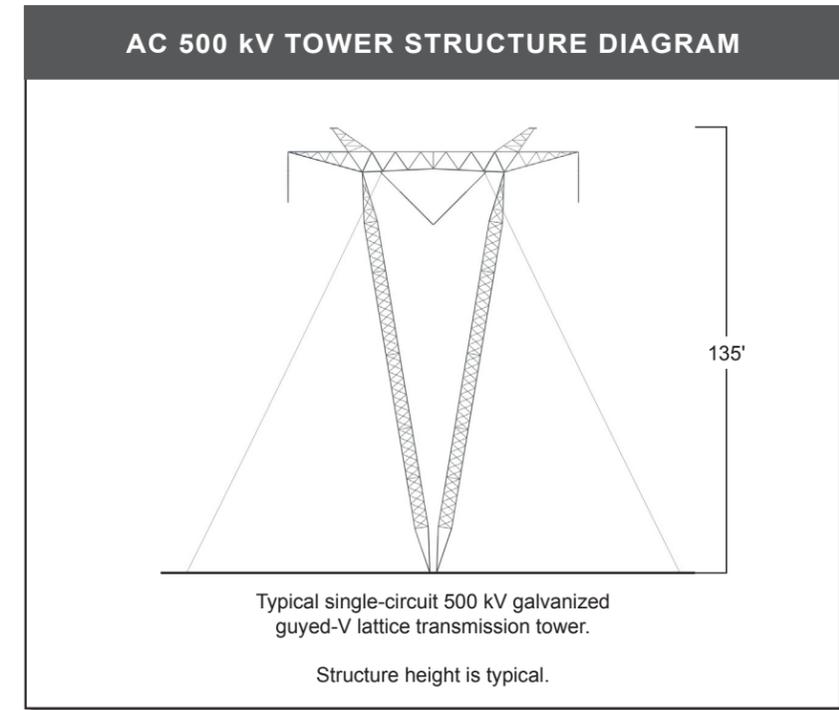
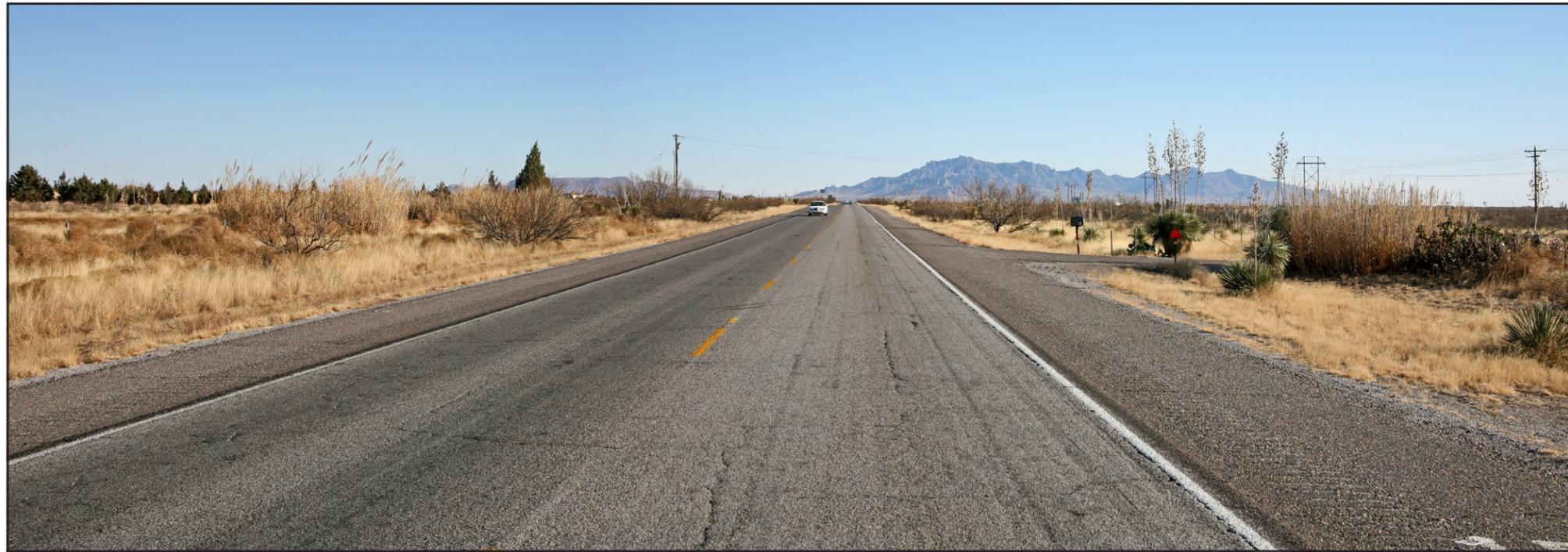


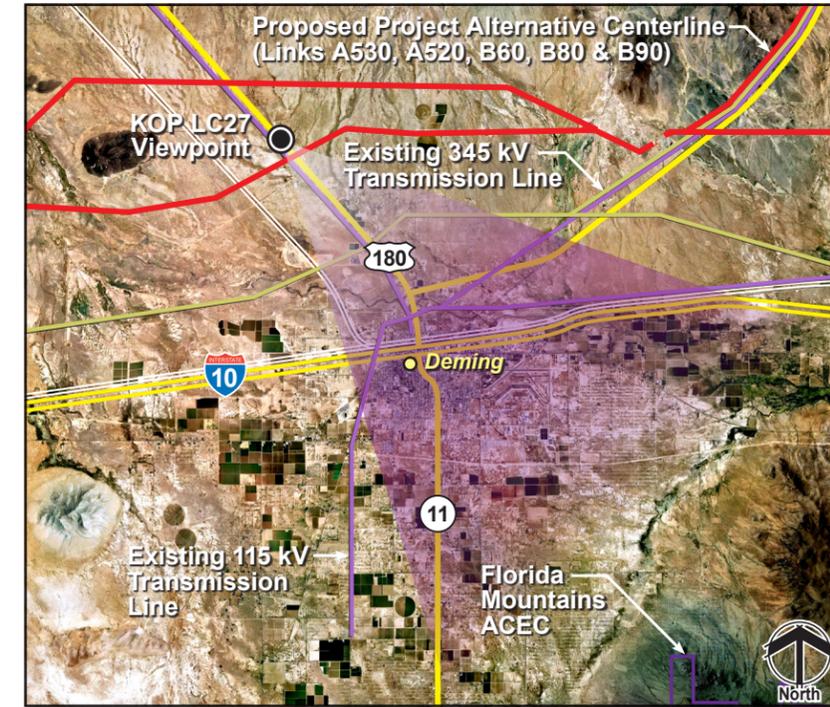
Photo Date and Time: 2-18-11, 11:33 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



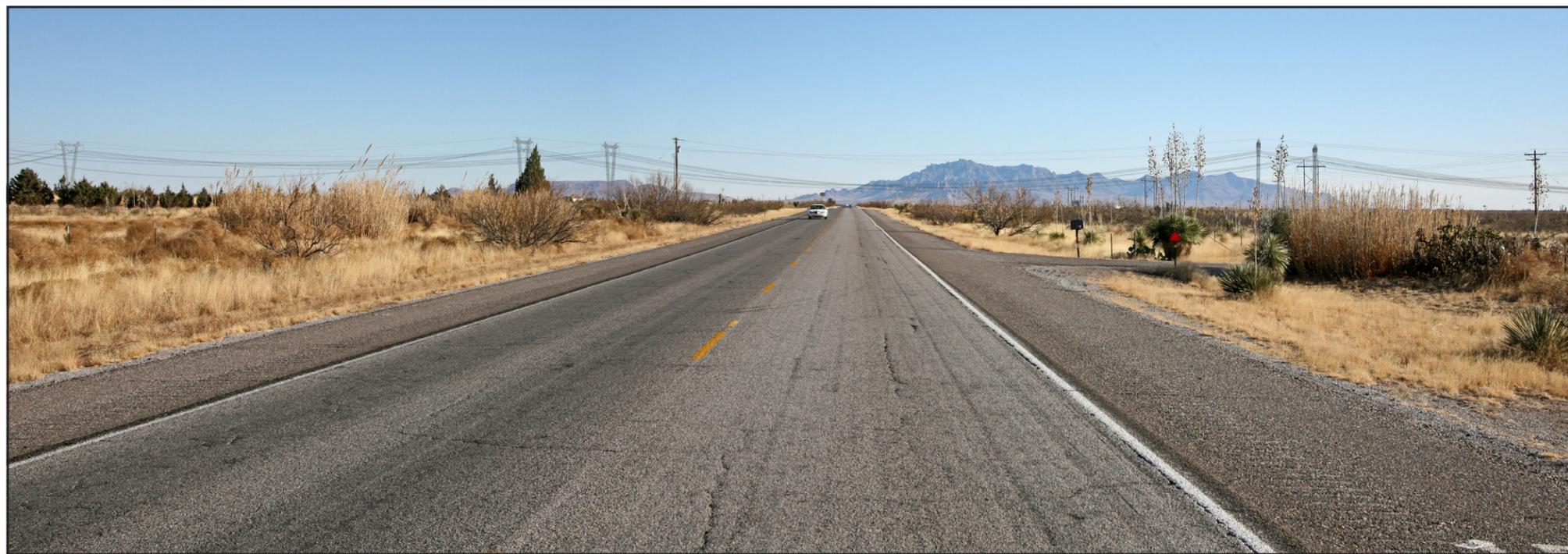
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**Existing Condition** – View southeast along US Route 180 (KOP LC27) toward Deming. Existing distribution lines parallel this travel route. Scenery includes the Florida Mountains southeast of Deming.



**Photograph Location:** Viewpoint is approximately 1.7 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures and typical spans. Portions of the Project would be skylined when crossing this travel route. Selective mitigation measure #10 would reduce visual contrast (shown).

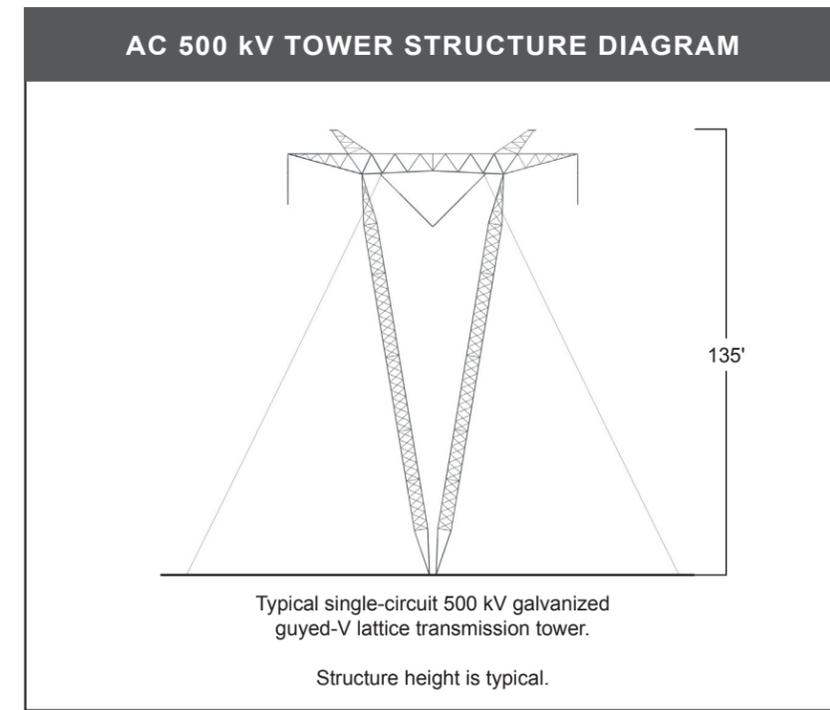


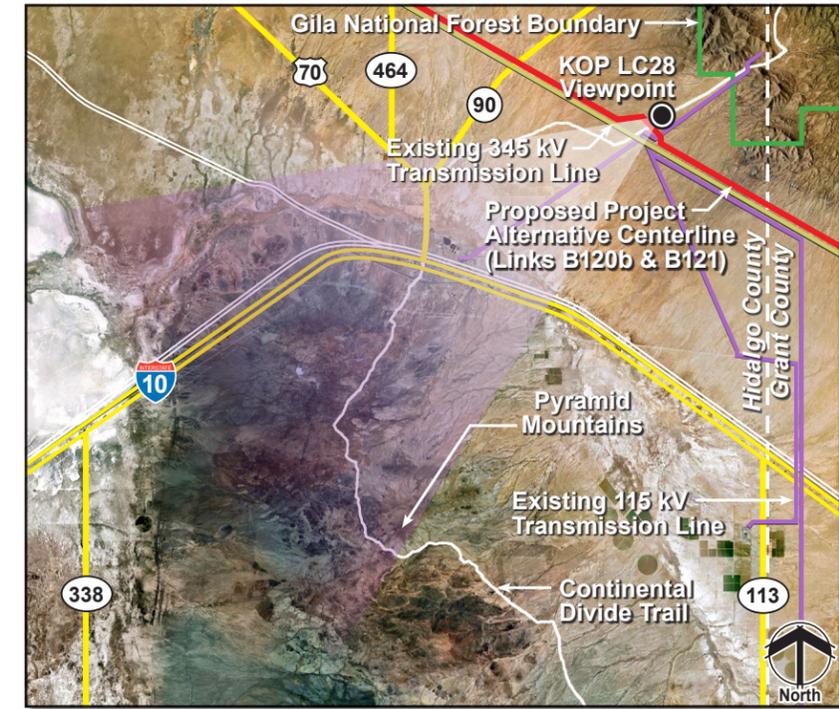
Photo Date and Time: 1-26-11, 4:42 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View southwest from the Continental Divide National Scenic Trail (KOP LC28) toward Lordsburg, New Mexico. Adjacent scenery includes the Pyramid Mountains and the Animas Valley.



**Photograph Location:** Viewpoint is approximately 0.4 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures. The Project would be seen from a level viewing position in the context of the existing Lordsburg Substation and existing transmission lines. Selective mitigation measure #10 would reduce visual contrast (shown).

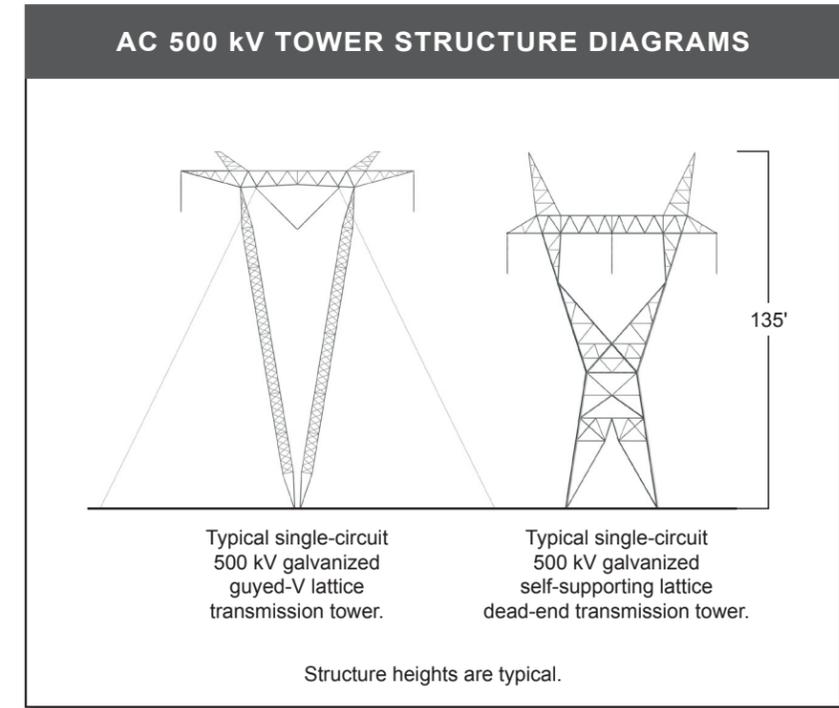


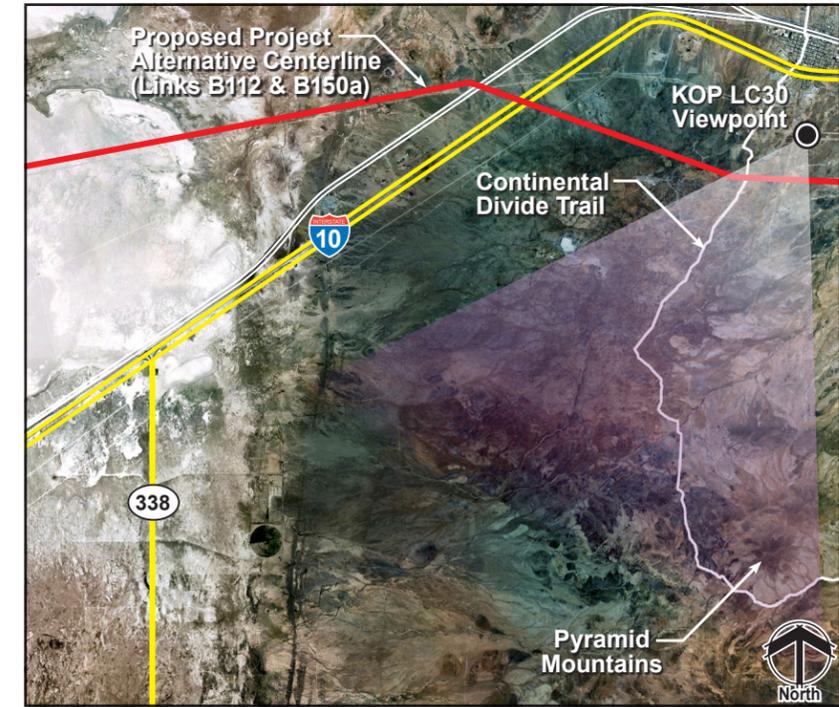
Photo Date and Time: 5-13-11, 8:52 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View southwest from residences in Lordsburg, New Mexico (KOP LC30). Adjacent scenery includes the Pyramid Mountains.



**Photograph Location:** Viewpoint is approximately 0.8 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures. Portions of the Project would be seen crossing BLM Class II Land. Cultural modifications include residences, distribution lines, and travel routes.

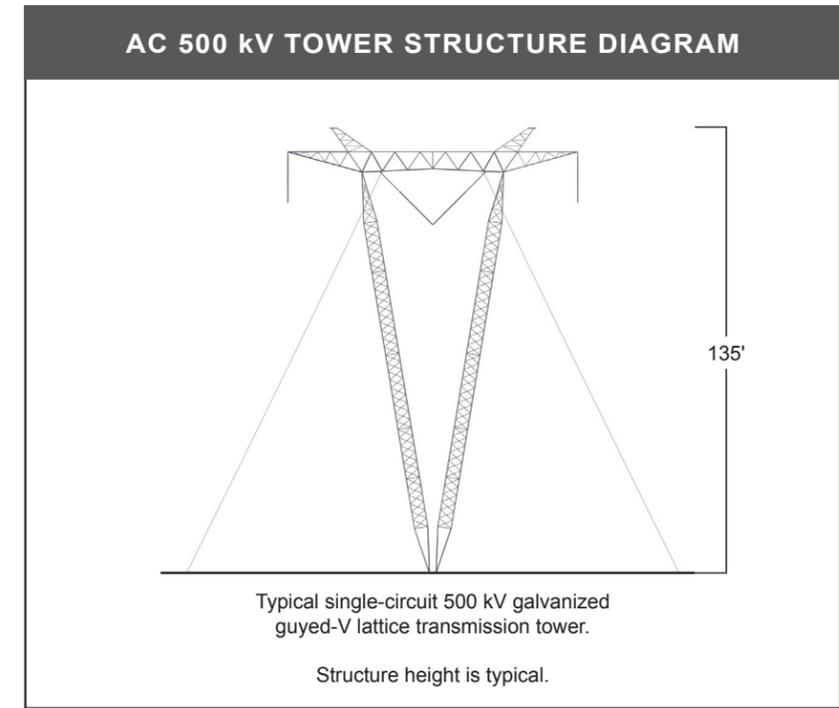


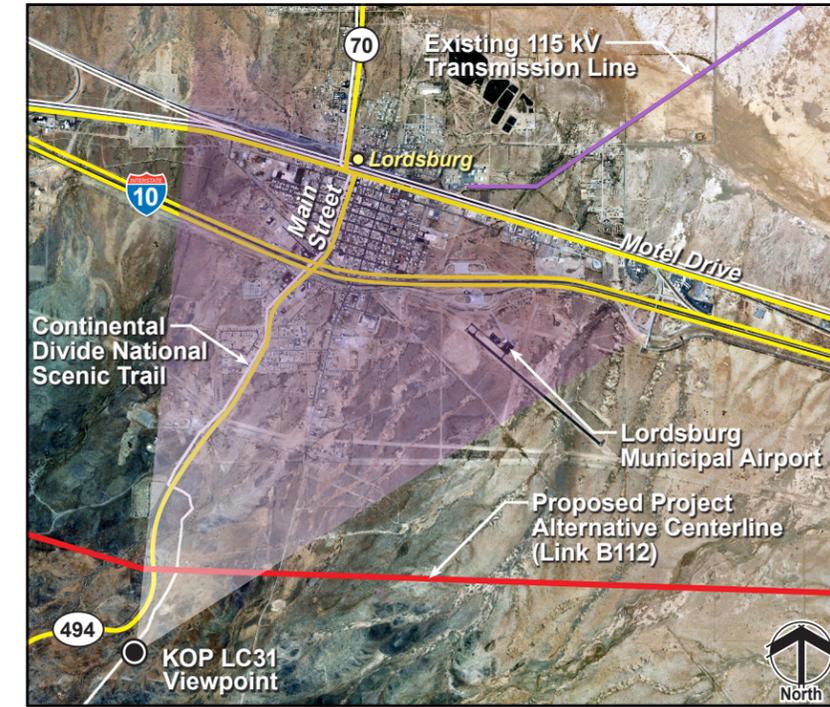
Photo Date and Time: 2-25-11, 11:04 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View northeast from the Continental Divide National Scenic Trail (KOP LC31) toward Lordsburg, New Mexico. Adjacent scenery includes the Big Burro Mountains and Animas Valley.



**Photograph Location:** Viewpoint is approximately 0.4 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures. Views of the Project would be partially skylined. Selective mitigation measure #10 would reduce visual contrast (shown).

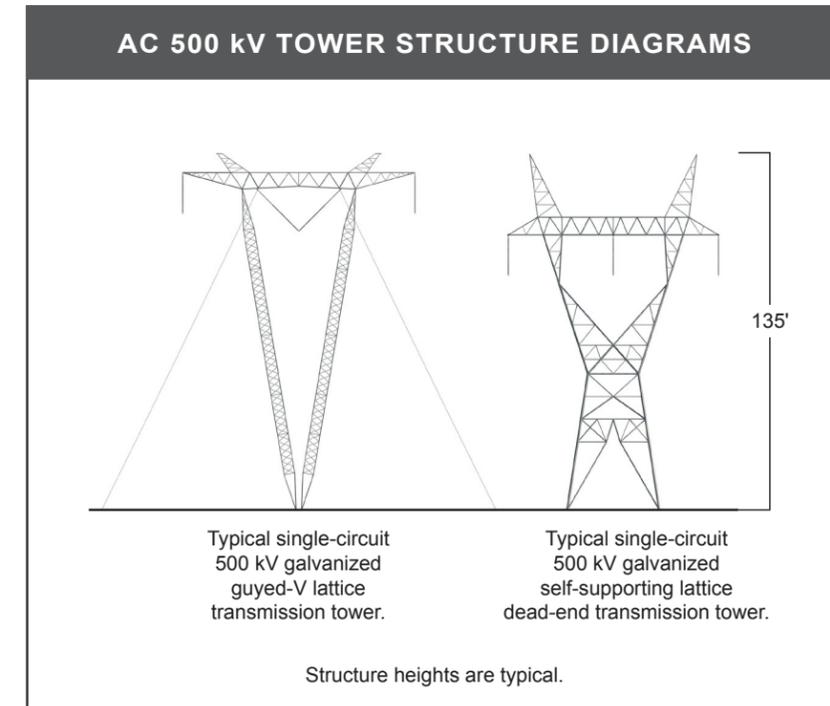


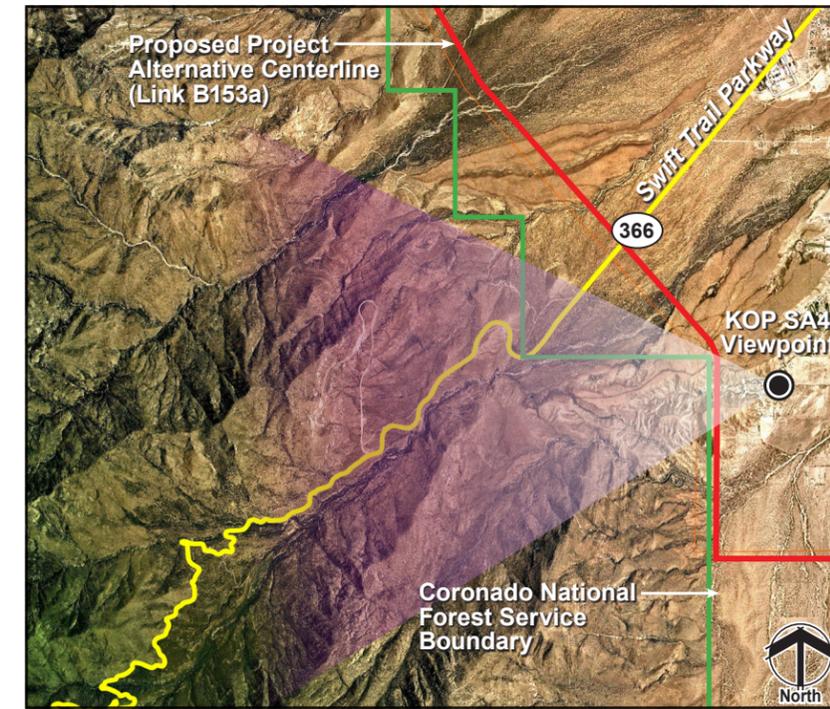
Photo Date and Time: 1-26-11, 3:02 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View west from Quatro Cerros Road (KOP SA4) toward residences near Artesia. Adjacent scenery includes the Pinaleño Mountains, Heliograph Peak, and Mount Graham.



**Photograph Location:** Viewpoint is approximately 0.4 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures. Inferior view of the Project, which would be partially skylined. Selective mitigation measure #10 would reduce visual contrast (shown).

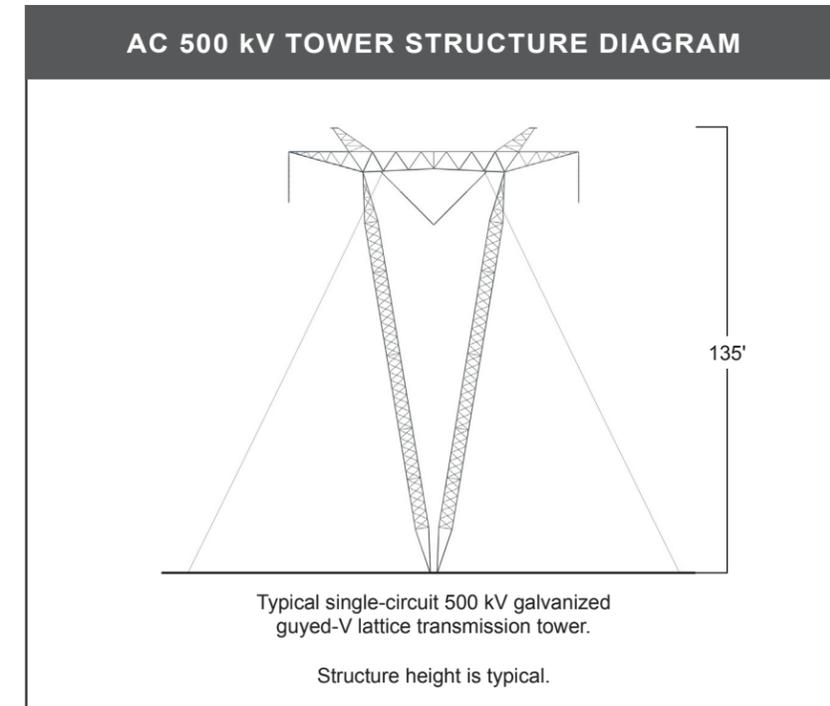


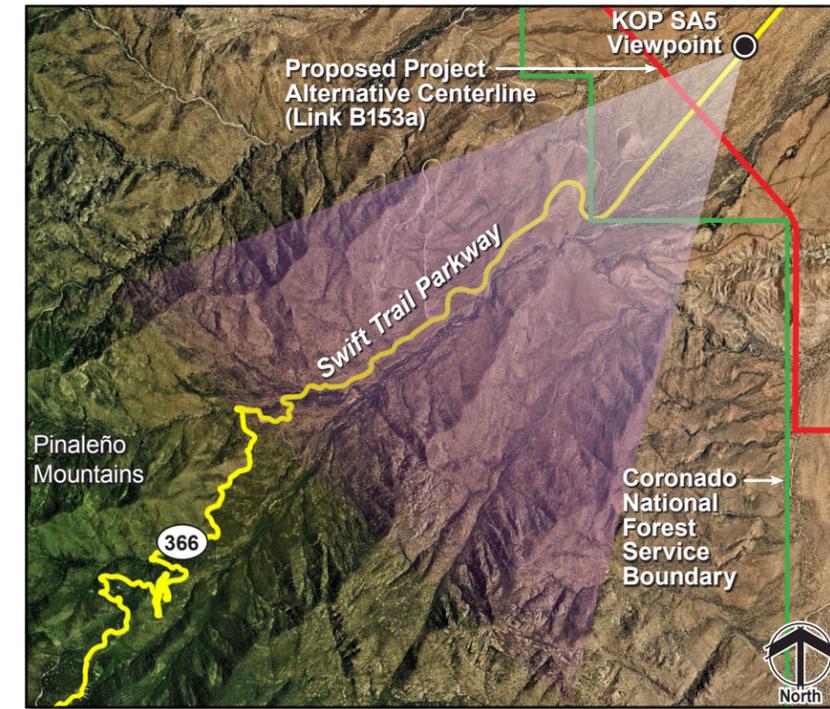
Photo Date and Time: 1-26-11, 11:26 a.m. Focal Length: 50mm  
 Simulations were prepared using three-val structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View southwest from Swift Trail Parkway (KOP SA5), a designated scenic road. This travel route provides primary access to the Coronado National Forest. Adjacent scenery includes the Pinaleno Mountains, Heliograph Peak, and Mount Graham.



**Photograph Location:** Viewpoint is approximately 0.5 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures. Level view of the Project that would be backdropped by adjacent terrain. Selective mitigation measures #7 and #10 would reduce visual contrast.

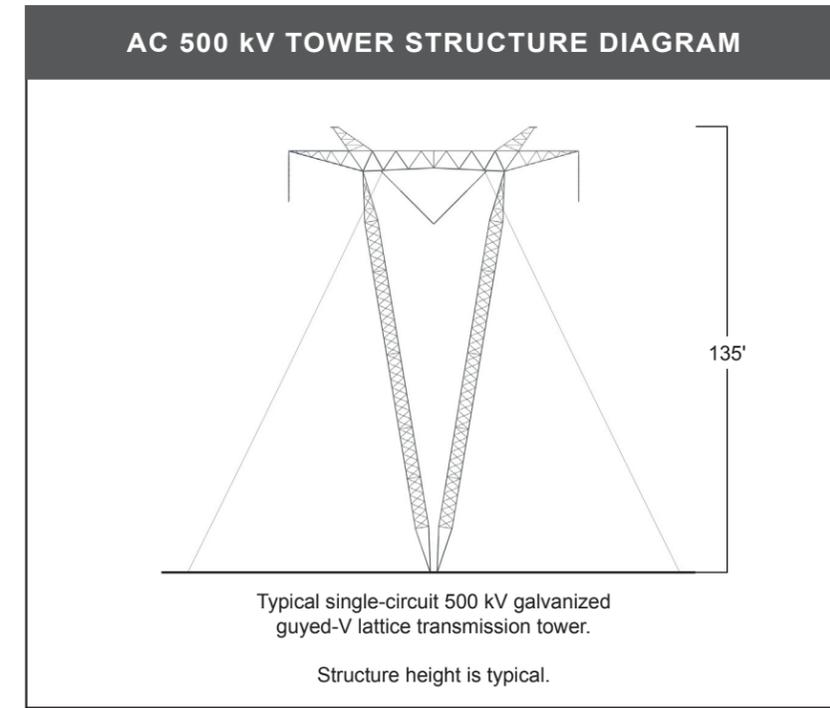


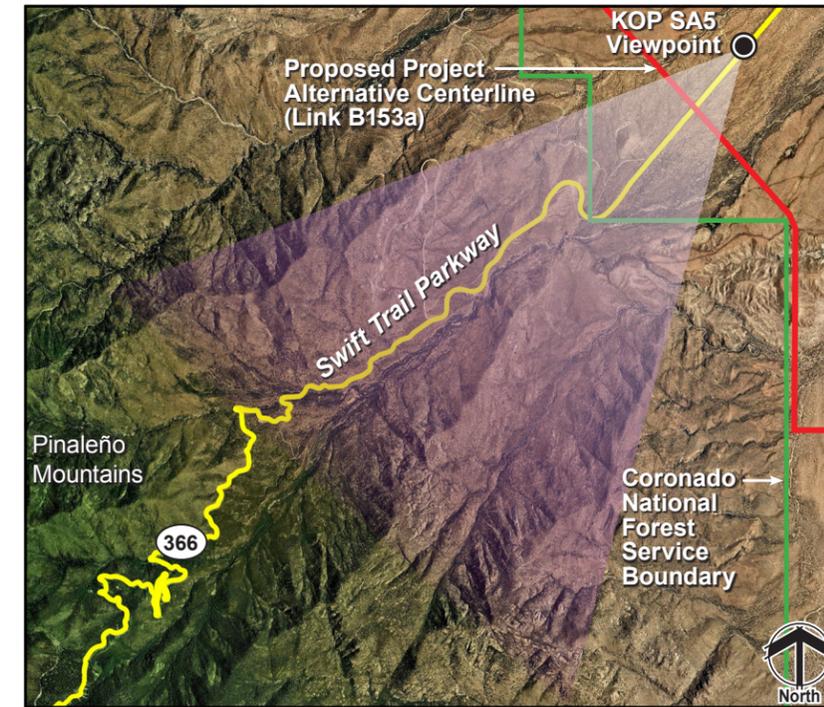
Photo Date and Time: 1-26-11, 11:49 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View southwest from Swift Trail Parkway (KOP SA5), a designated scenic road. This travel route provides primary access to the Coronado National Forest. Adjacent scenery includes the Pinaleno Mountains, Heliograph Peak, and Mount Graham.



**Photograph Location:** Viewpoint is approximately 0.5 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including selective mitigation measures. Level view of the Project that would be backdropped by adjacent terrain.

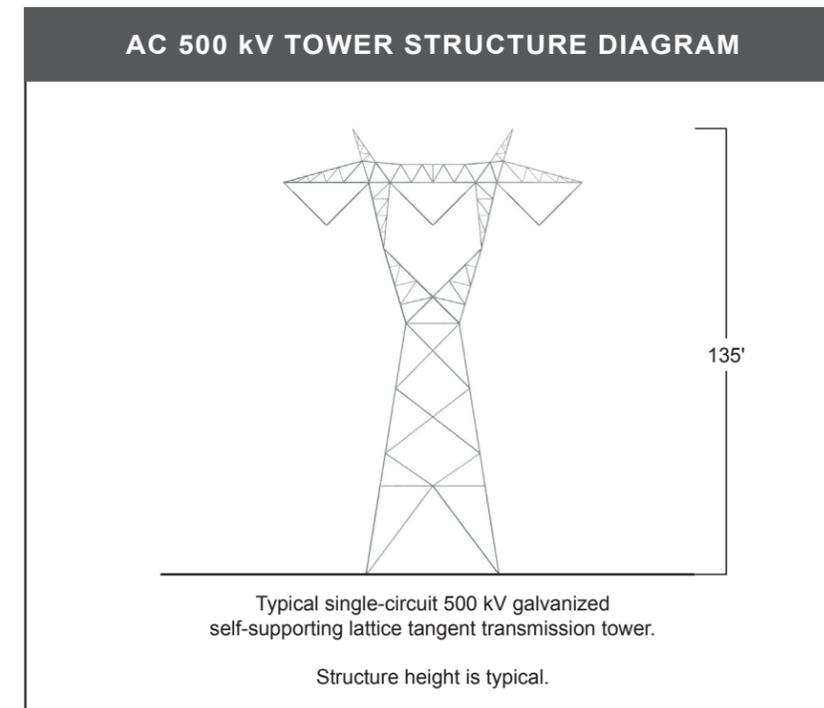


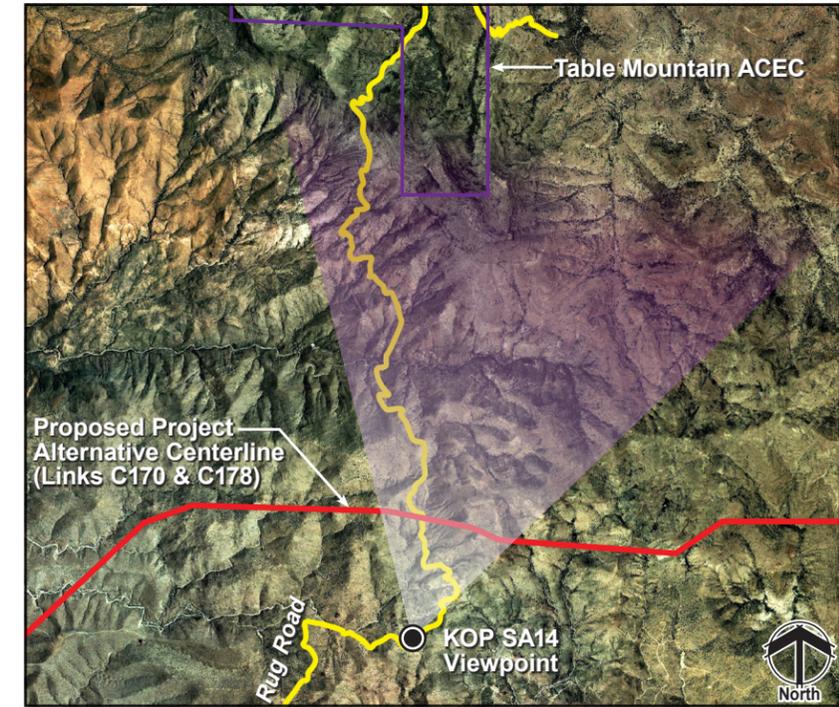
Photo Date and Time: 1-26-11, 11:49 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from Rug Road (KOP SA14), a recreation access road for Aravaipa Canyon Wilderness, toward Table Mountain ACEC.



**Photograph Location:** Viewpoint is approximately 0.75 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures. Inferior view of the Project crossing steep terrain where portions would be skylined. Selective mitigation measures #10, #11, and #13 would reduce visual contrast.

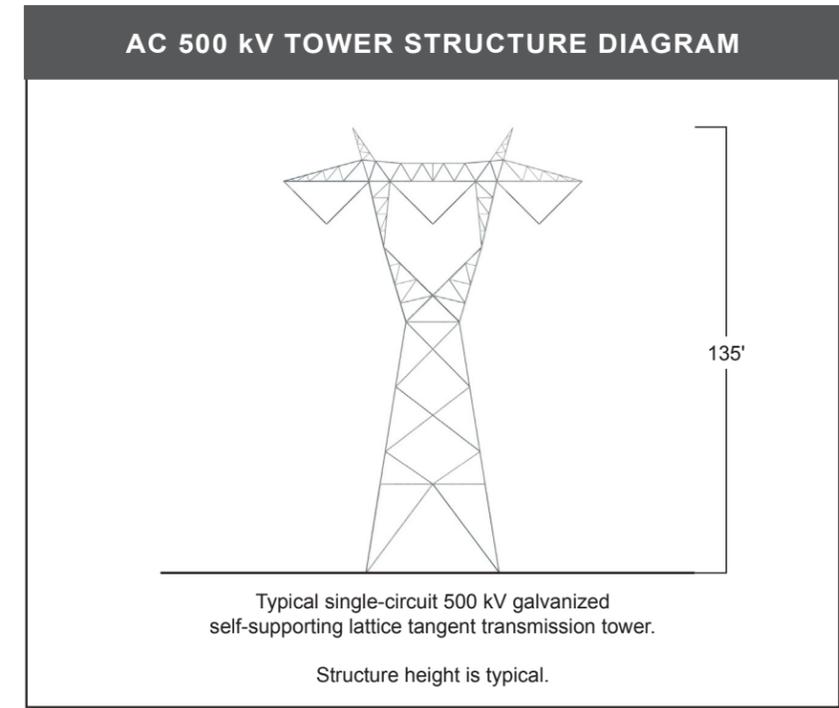


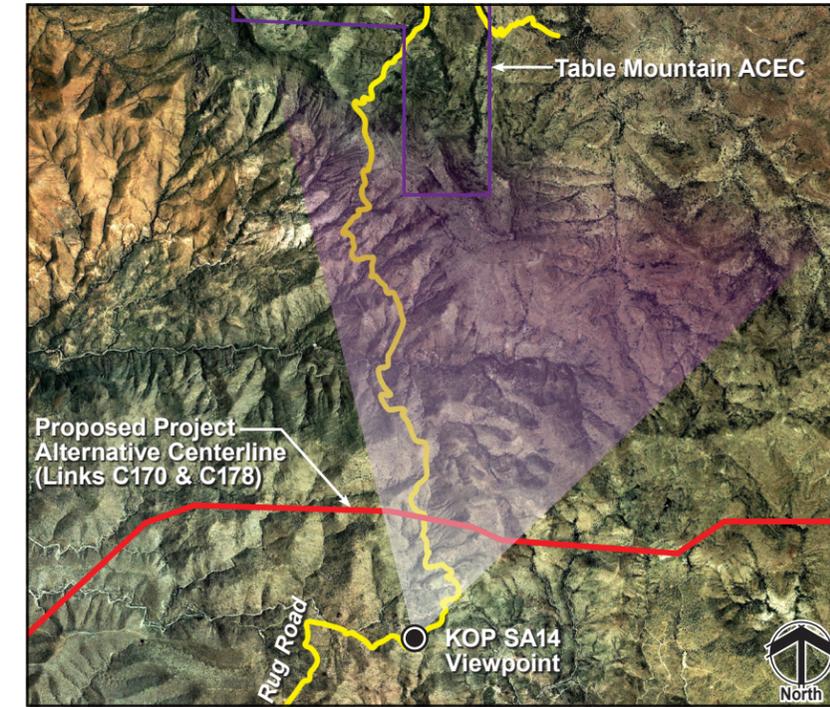
Photo Date and Time: 4-14-10, 1:24 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from Rug Road (KOP SA14), a recreation access road for Aravaipa Canyon Wilderness, toward Table Mountain ACEC.



**Photograph Location:** Viewpoint is approximately 0.75 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including selective mitigation measures. Inferior view of the Project crossing steep terrain where portions would be skylined.

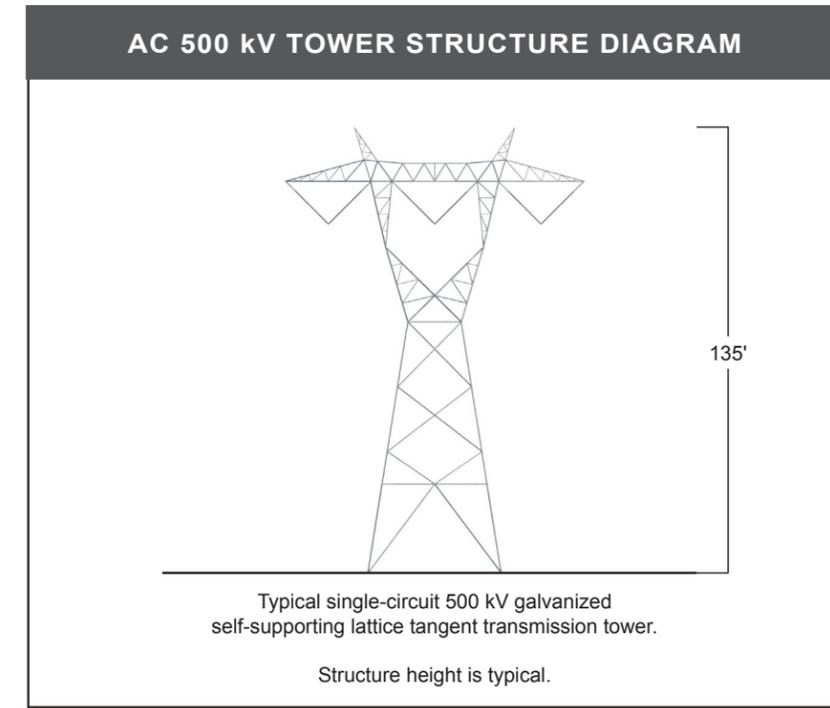


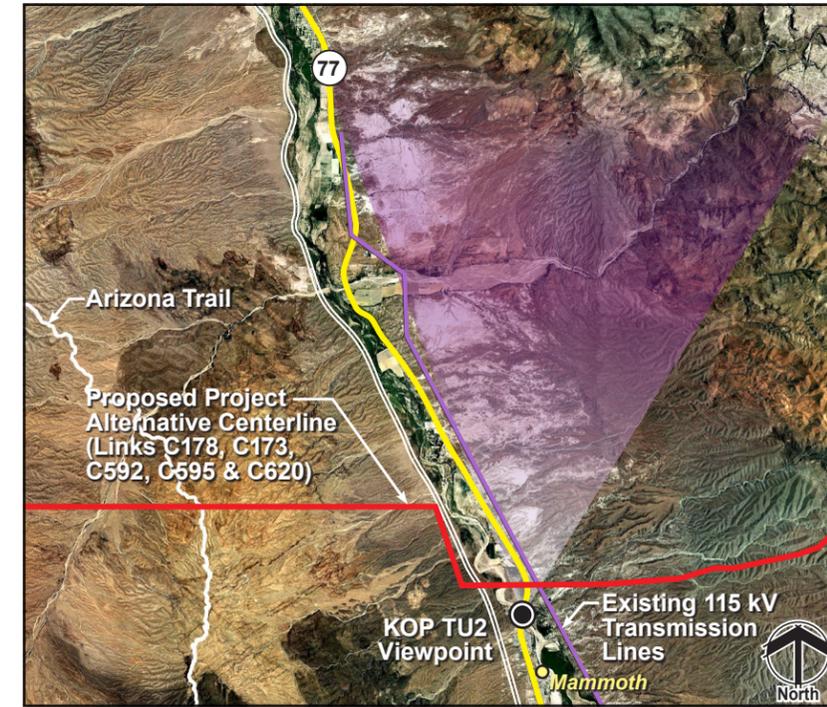
Photo Date and Time: 4-14-10, 1:24 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from SR 77 (KOP TU2) in Mammoth, Arizona. This travel route provides access to residents in the northern part of the San Pedro River Valley.



**Photograph Location:** Viewpoint is approximately 0.8 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures. Portions of the Project would be skylined when crossing the San Pedro River Valley. Selective mitigation measure #10 would reduce visual contrast (shown).

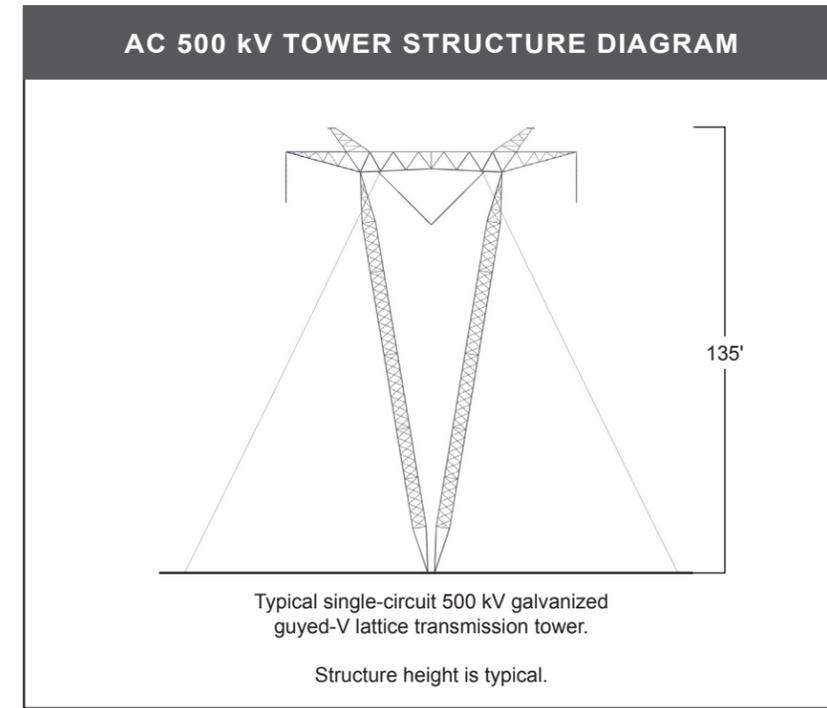
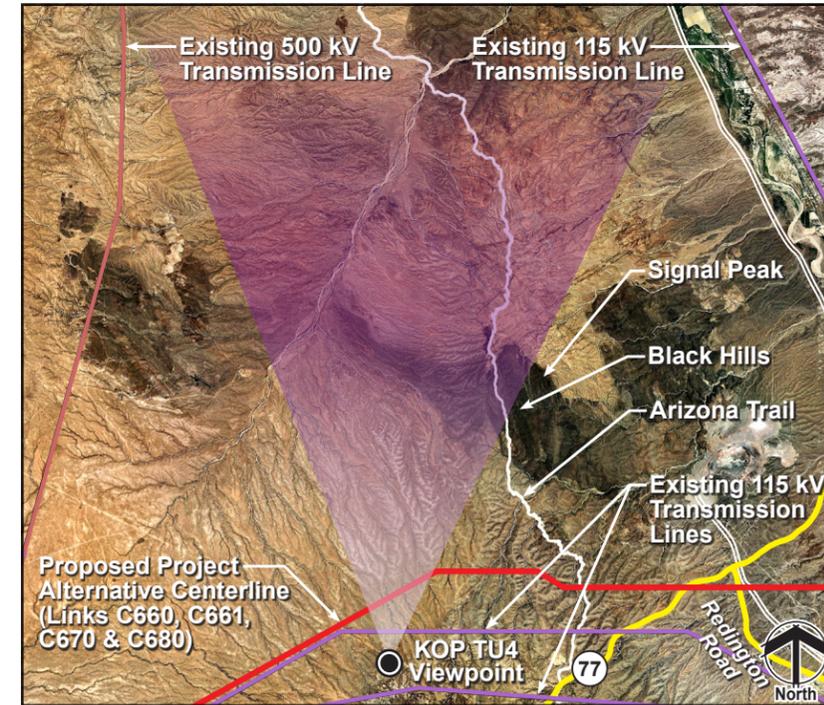


Photo Date and Time: 1-25-11, 12:05 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.

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**Existing Condition** – View north from residences near Oracle (KOP TU4) toward an existing 115 kV transmission line. Adjacent scenery includes Signal Peak and the Black Hills.



**Photograph Location:** Viewpoint is approximately 1.0 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures. The Project would be backdropped by adjacent terrain and viewed in context with an existing 115 kV transmission line.

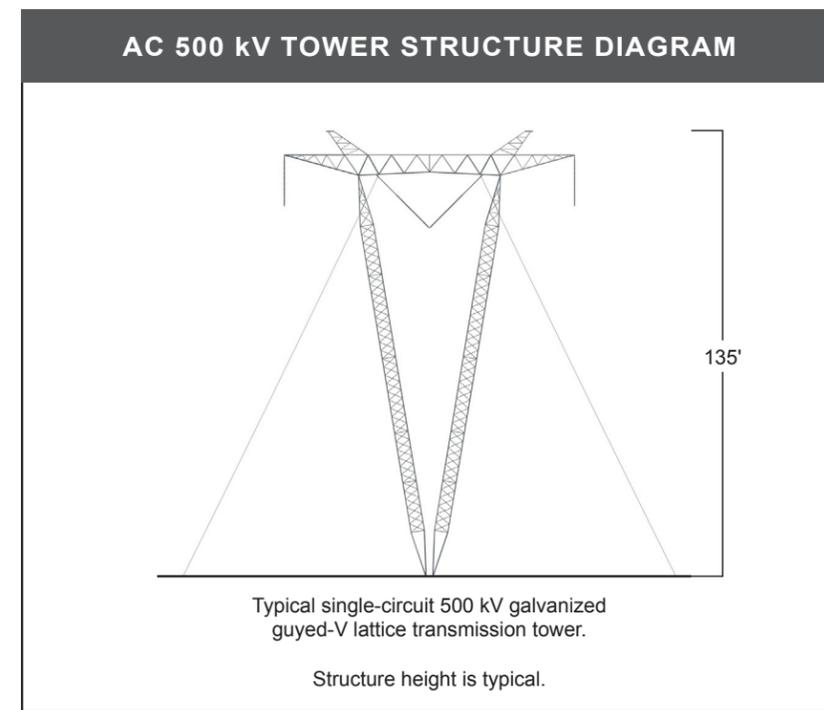


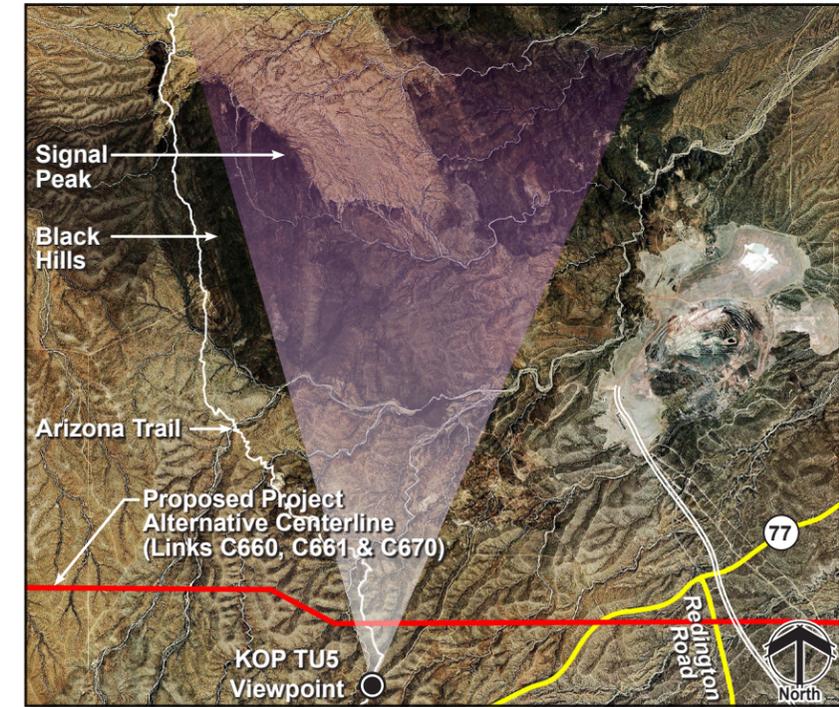
Photo Date and Time: 1-25-11, 12:48 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from the Tiger Mine Trailhead on the Arizona Trail (KOP TU5), a nationally designated scenic trail. Terrain in this viewshed includes Signal Peak and Pinal Peak, which are associated with the Black Hills north of Oracle.



**Photograph Location:** Viewpoint is approximately 0.7 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures. The Project would be backdropped by adjacent terrain. Selective mitigation measures #7 and #10 would reduce visual contrast.

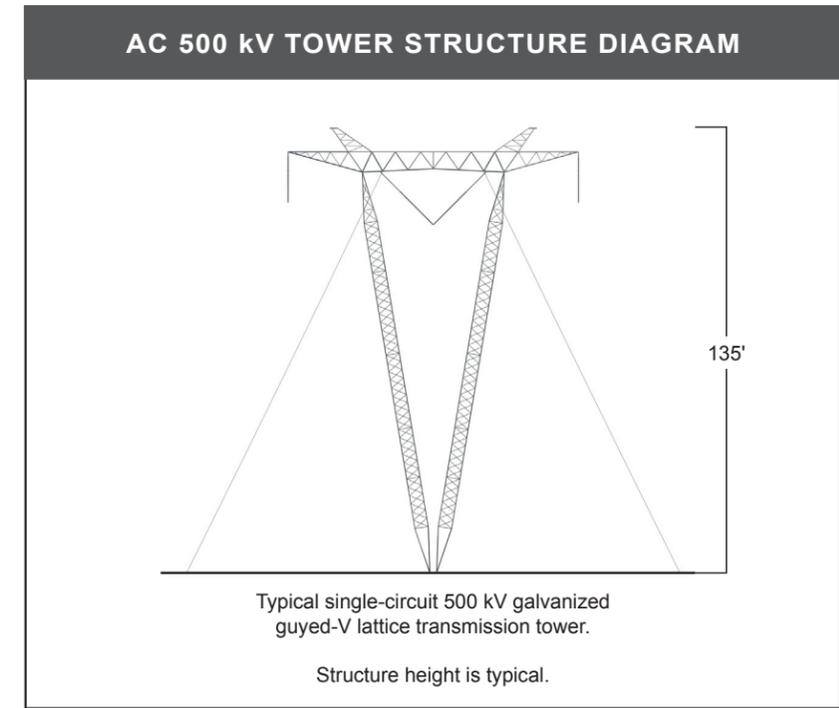


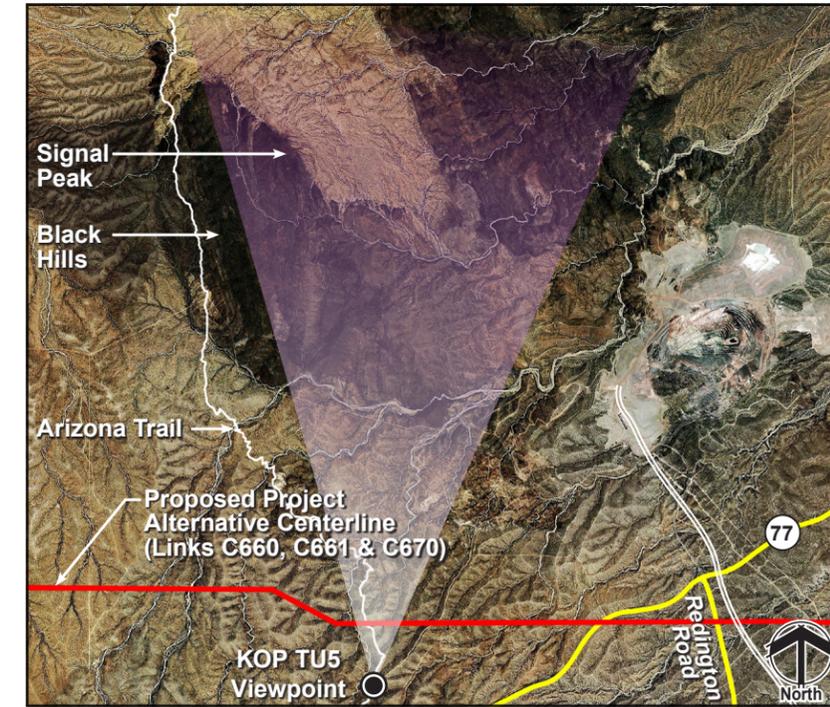
Photo Date and Time: 1-25-11, 1:05 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View north from the Tiger Mine Trailhead on the Arizona Trail (KOP TU5), a nationally designated scenic trail. Terrain in this viewshed includes Signal Peak and Pinal Peak, which are associated with the Black Hills north of Oracle.



**Photograph Location:** Viewpoint is approximately 0.7 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including selective mitigation measures. The Project would be backdropped by adjacent terrain.

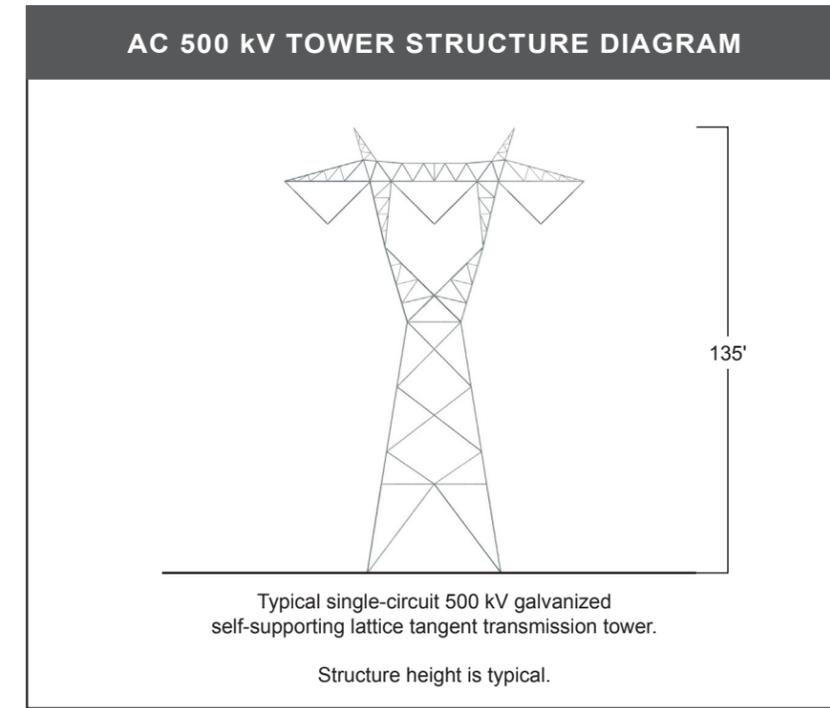


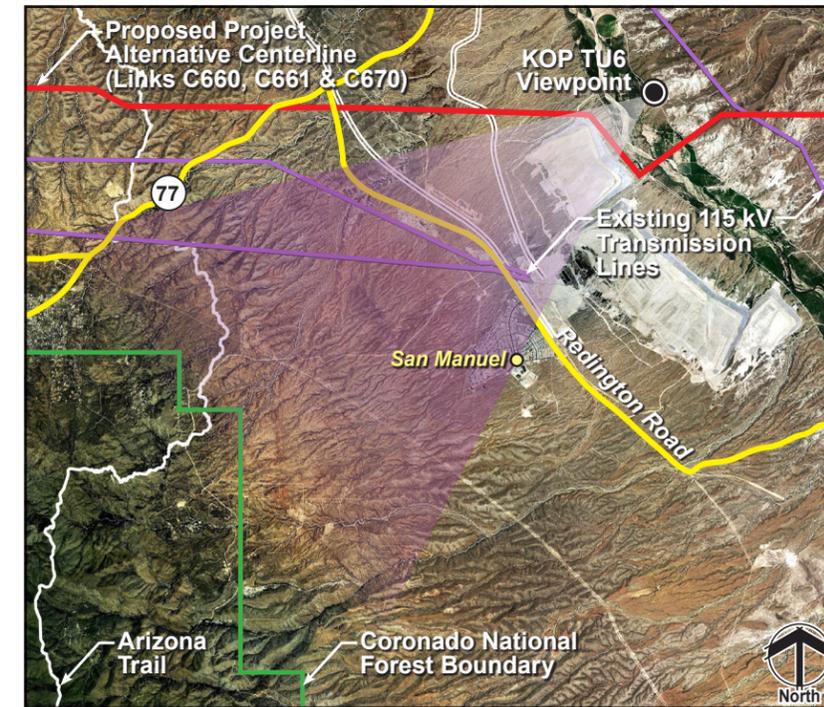
Photo Date and Time: 1-25-11, 1:05 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View southwest from a residence within the San Pedro River Valley northeast of San Manuel (KOP TU6). Existing cultural modifications include a mine, which is evident from this residence.



**Photograph Location:** Viewpoint is approximately 1.0 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures. The Project would be viewed in a modified setting where an existing mine dominates the view.

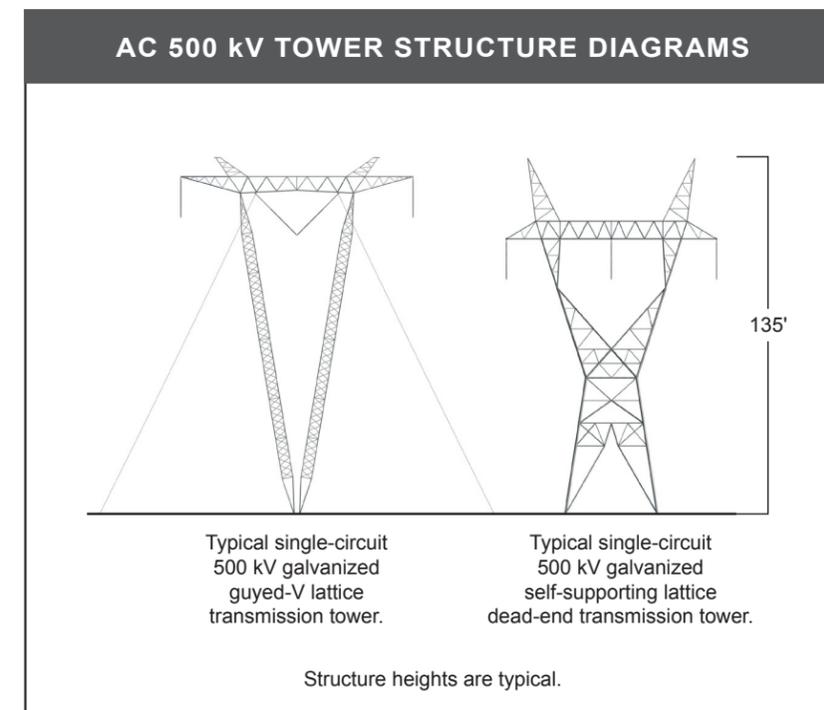


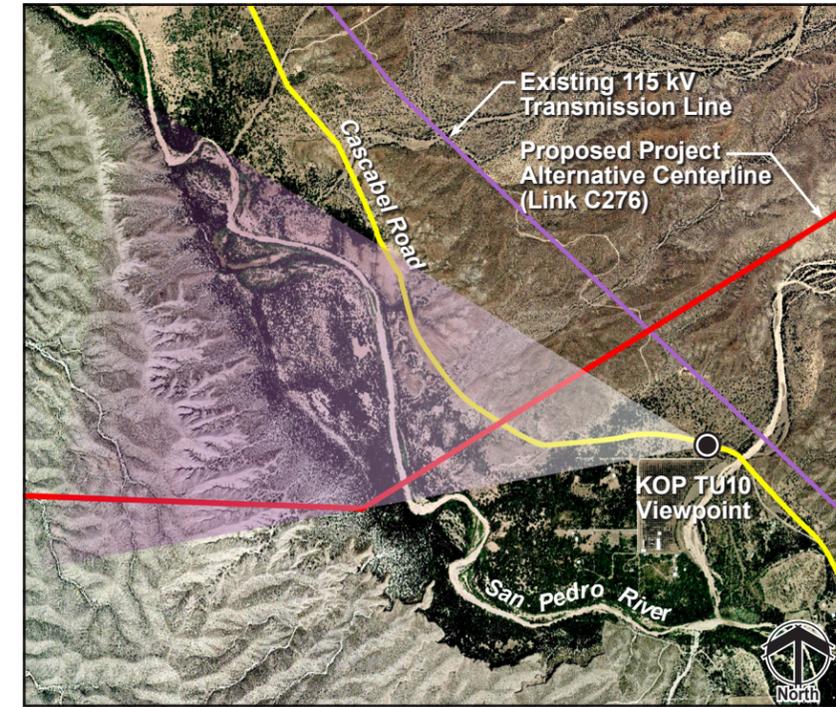
Photo Date and Time: 1-25-11, 10:55 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View west from Cascabel Road (KOP TU10) within the San Pedro River Valley. Cascabel Road provides access for residents in the San Pedro River Valley area.



**Photograph Location:** Viewpoint is approximately 0.5 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures. Portions of the Project would be skylined while crossing elevated terrain through the San Pedro River Valley. Selective mitigation measures #7 and #10 would reduce visual contrast (shown).

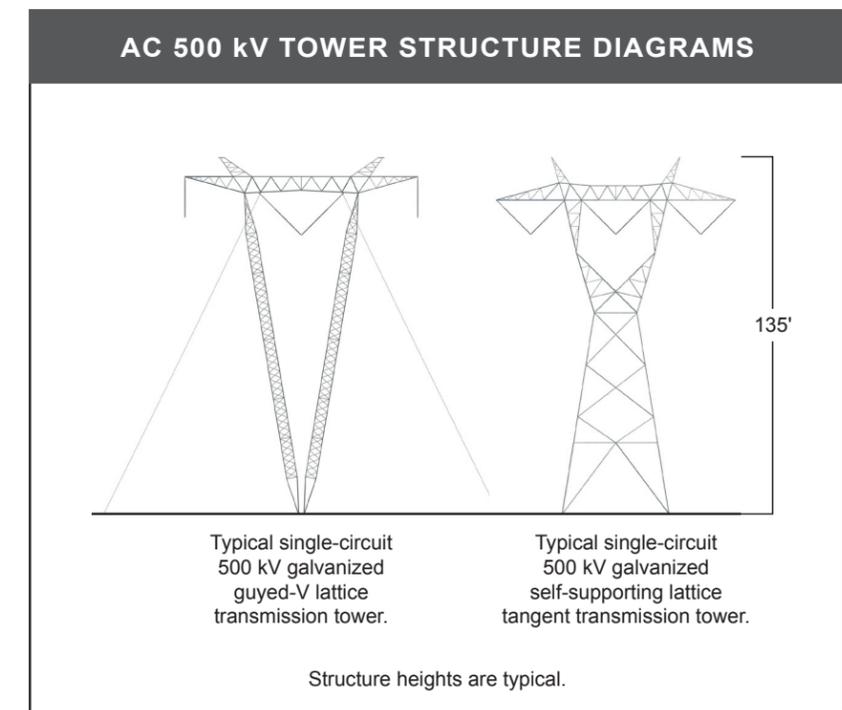


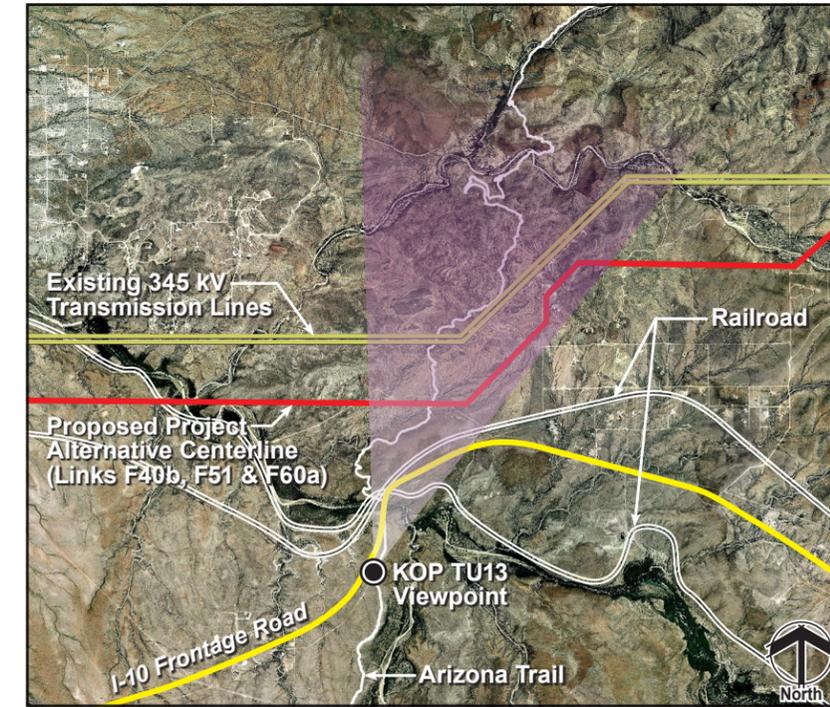
Photo Date and Time: 1-26-11, 8:42 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View northeast from the Davidson Trailhead on the Arizona Trail through the Cienega Creek Natural Preserve (KOP TU13) toward two existing 345 kV transmission lines. The Arizona Trail is a nationally designated scenic trail. Surrounding terrain includes the Rincon Mountains, Tanque Verde Peak, and Duckbill Mountain.



**Photograph Location:** Viewpoint is approximately 1.0 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures. The Project would be backdropped by adjacent terrain and viewed in the context of existing transmission lines. Selective mitigation measures #5 and #7 would reduce visual contrast.

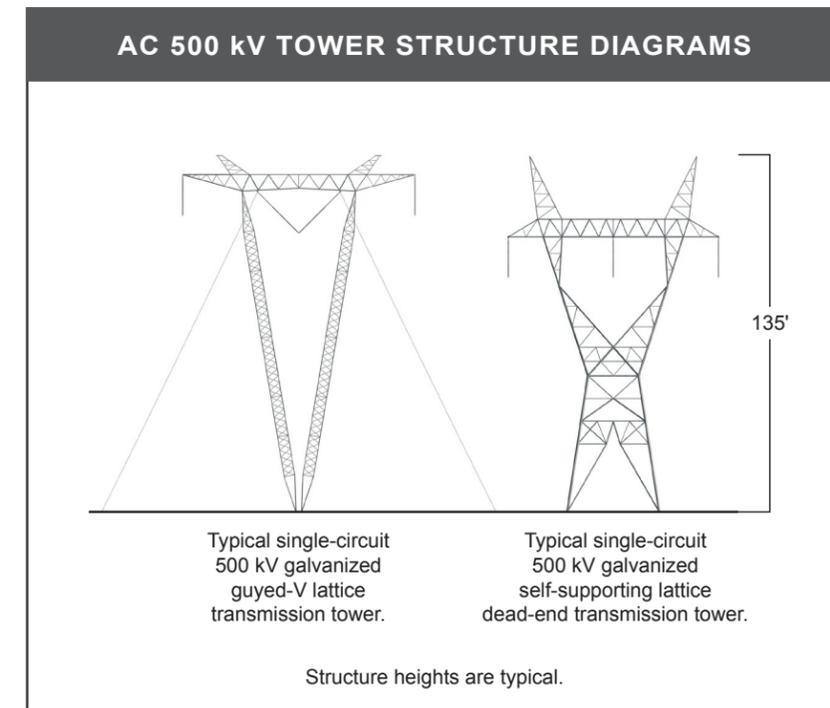


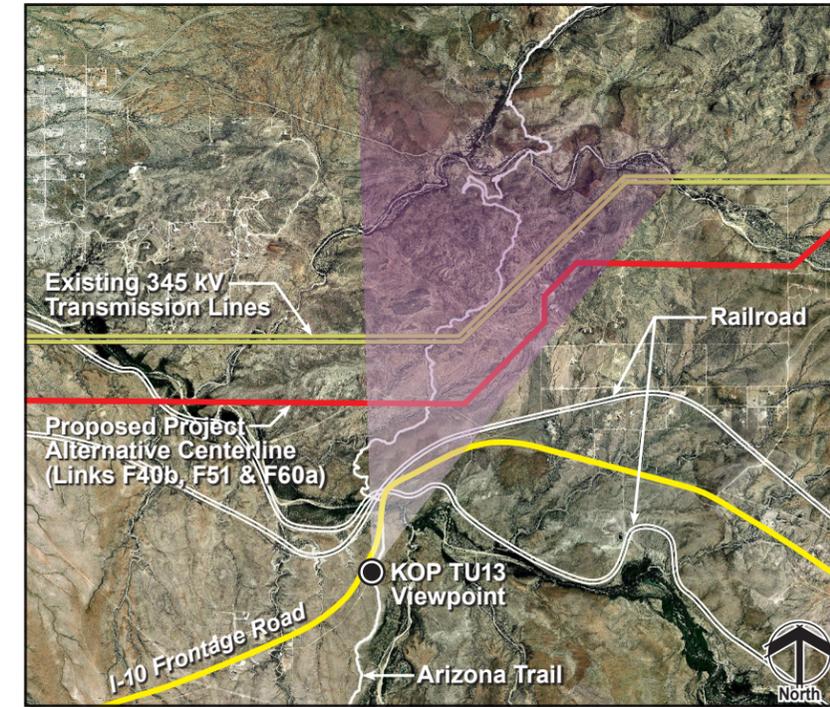
Photo Date and Time: 1-21-11, 1:02 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View northeast from the Davidson Trailhead on the Arizona Trail through the Cienega Creek Natural Preserve (KOP TU13) toward two existing 345 kV transmission lines. The Arizona Trail is a nationally designated scenic trail. Surrounding terrain includes the Rincon Mountains, Tanque Verde Peak, and Duckbill Mountain.



**Photograph Location:** Viewpoint is approximately 1.0 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including selective mitigation measures. The Project would be backdropped by adjacent terrain and viewed in the context of existing transmission lines.

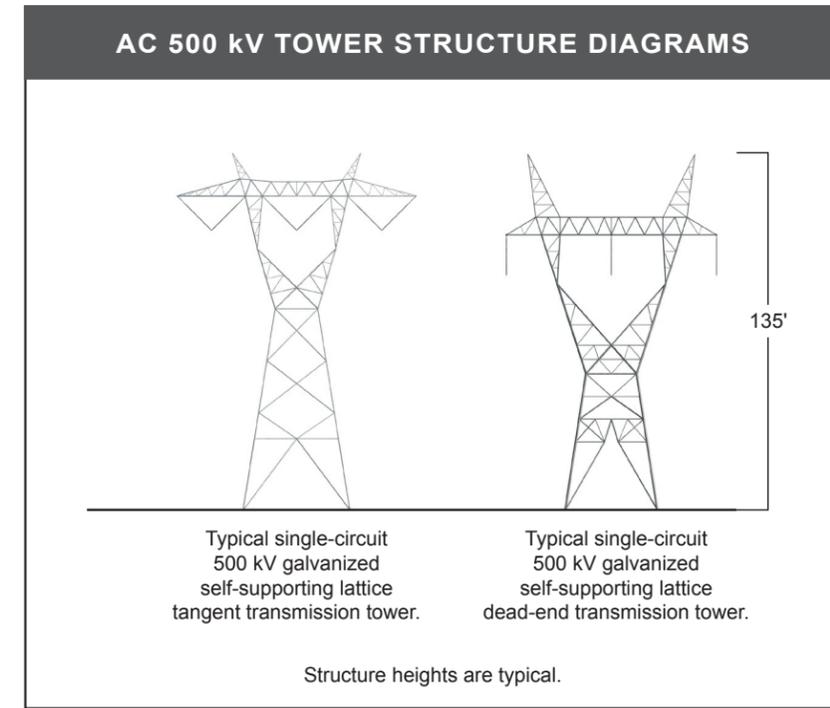


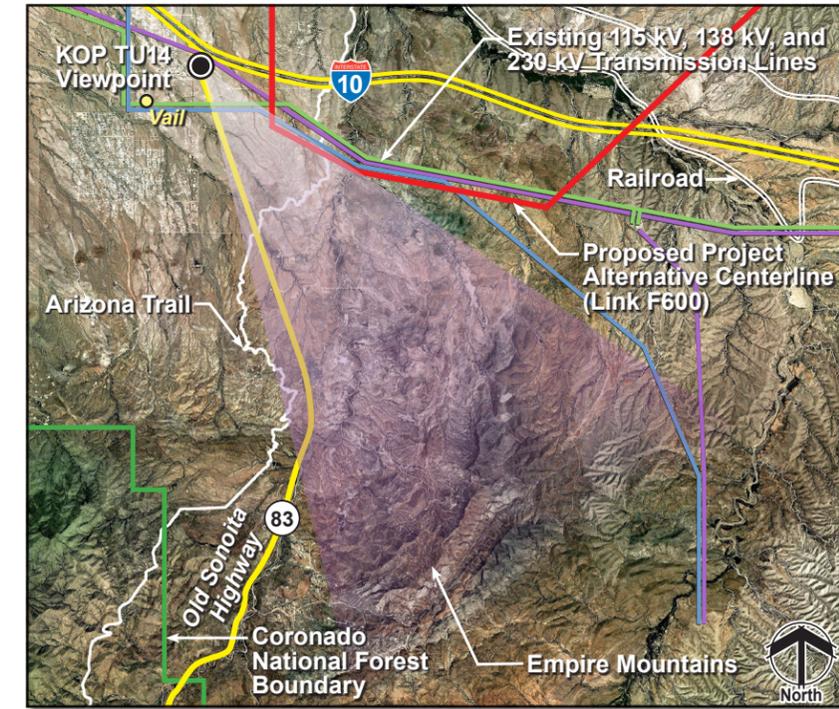
Photo Date and Time: 1-21-11, 1:02 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View southeast from SR 83 (KOP TU14), a designated scenic road, at the exit ramp from I-10 toward existing 138 kV and 230 kV transmission lines. Adjacent scenery includes the Empire Mountains and Apache Peak.



**Photograph Location:** Viewpoint is approximately 1.5 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures. The Project would be backdropped by adjacent terrain and viewed in the context of existing transmission lines.

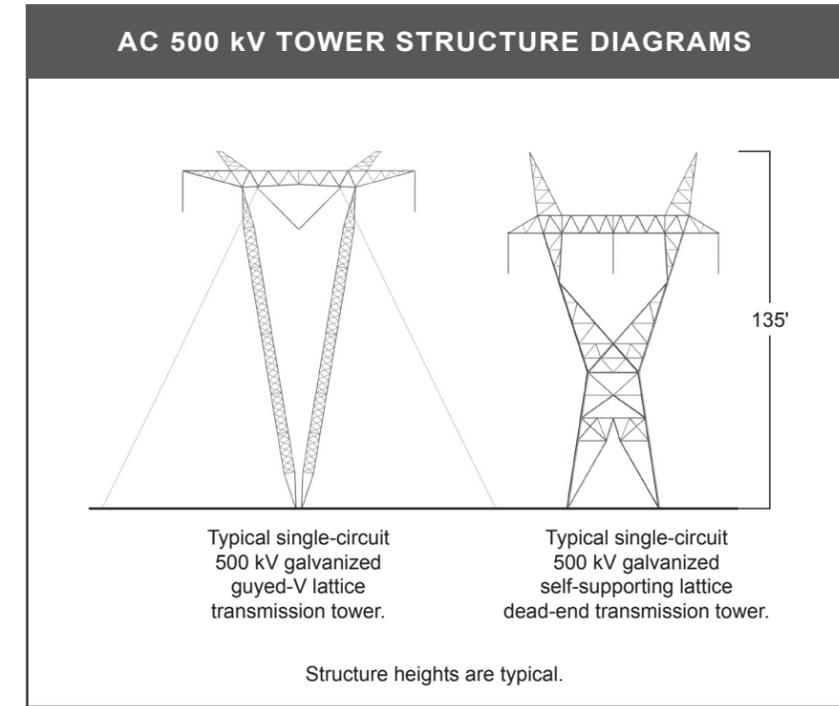
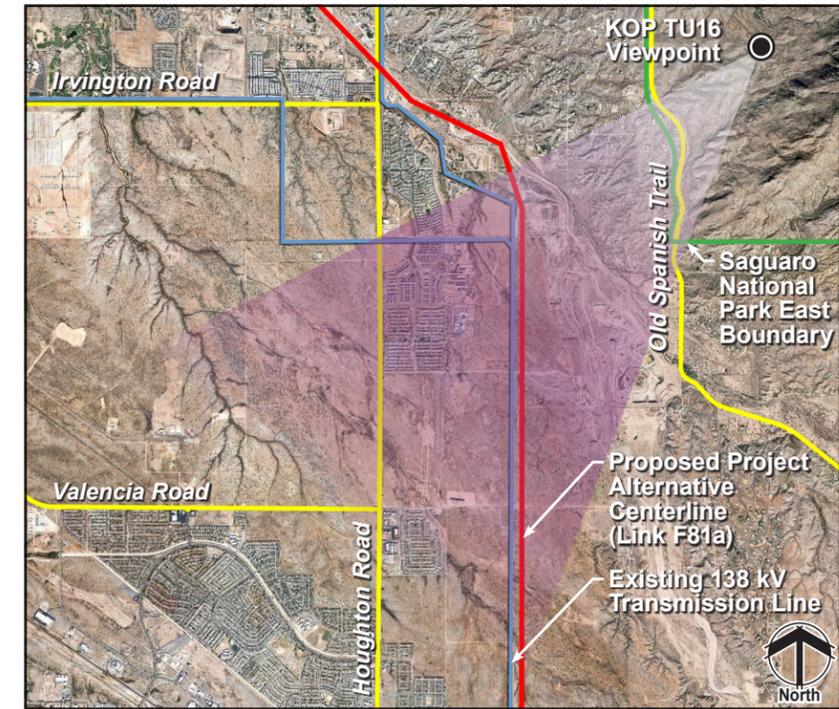


Photo Date and Time: 1-21-11, 12:39 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.

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**Existing Condition** – View southwest from Tanque Verde Ridge Trailhead and picnic area within Saguaro National Park East (KOP TU16), toward an existing 138 kV transmission line and the developed area of the Rincon Valley, south of Tucson.



**Photograph Location:** Viewpoint is approximately 2.0 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures. The Project would be backdropped by surrounding terrain and viewed in the context of existing transmission lines and the developed area of Tucson.

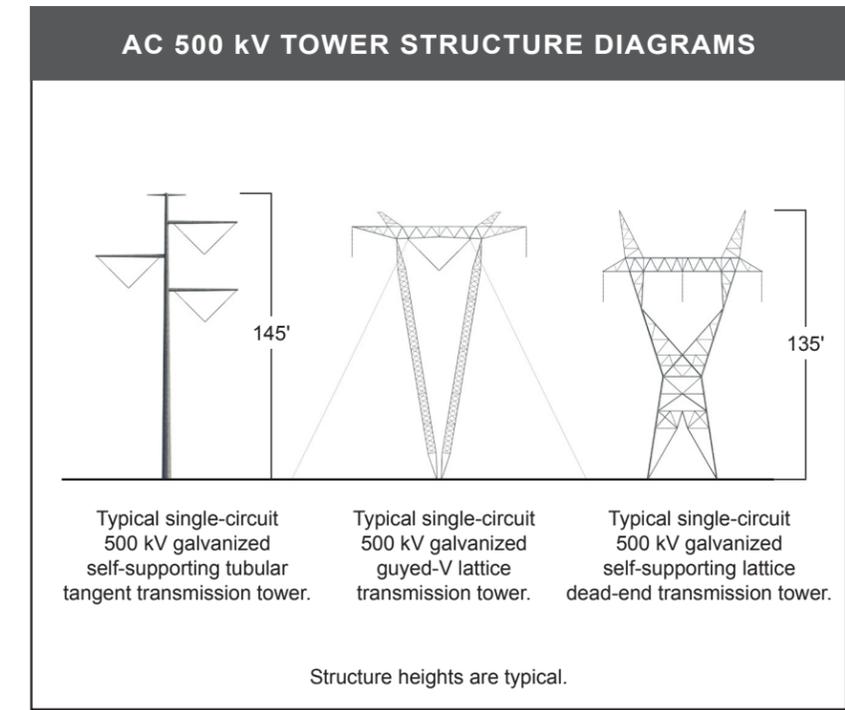


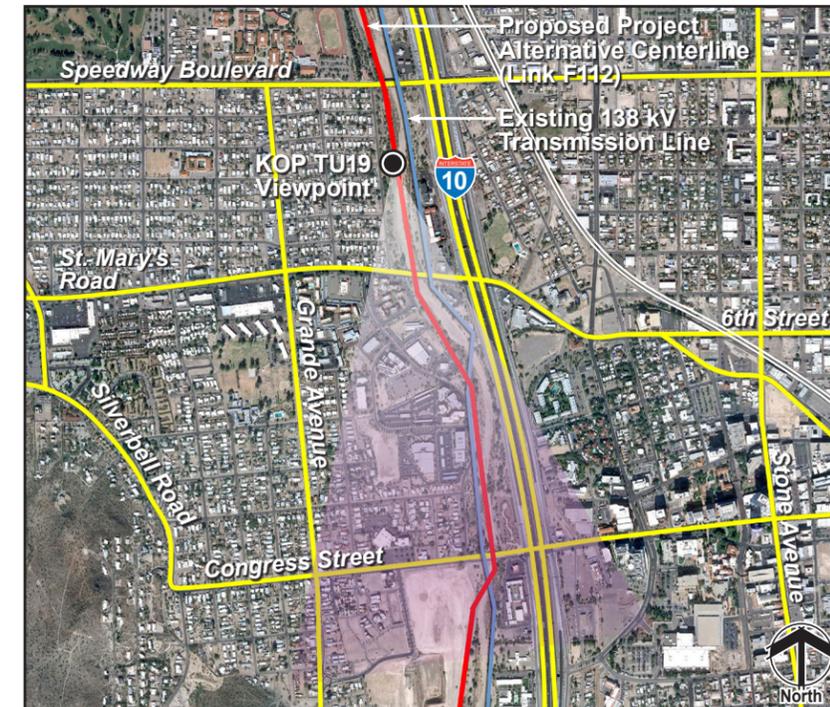
Photo Date and Time: 1-21-11, 11:38 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View south from the Santa Cruz River Park (KOP TU19), which also includes the Juan Bautista de Anza National Historic Trail, adjacent to the Santa Cruz River. This river park is paralleled by an existing 138 kV transmission line and the developed area of Tucson, including I-10.



**Photograph Location:** Viewpoint is immediately adjacent to proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures. The Project would be viewed in the context of an existing transmission line and the developed area of Tucson.

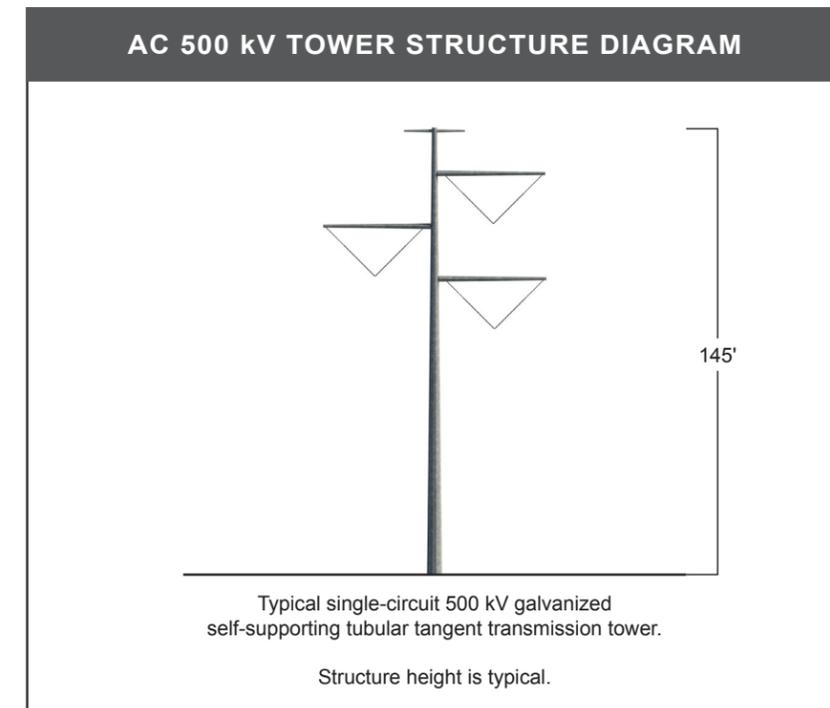
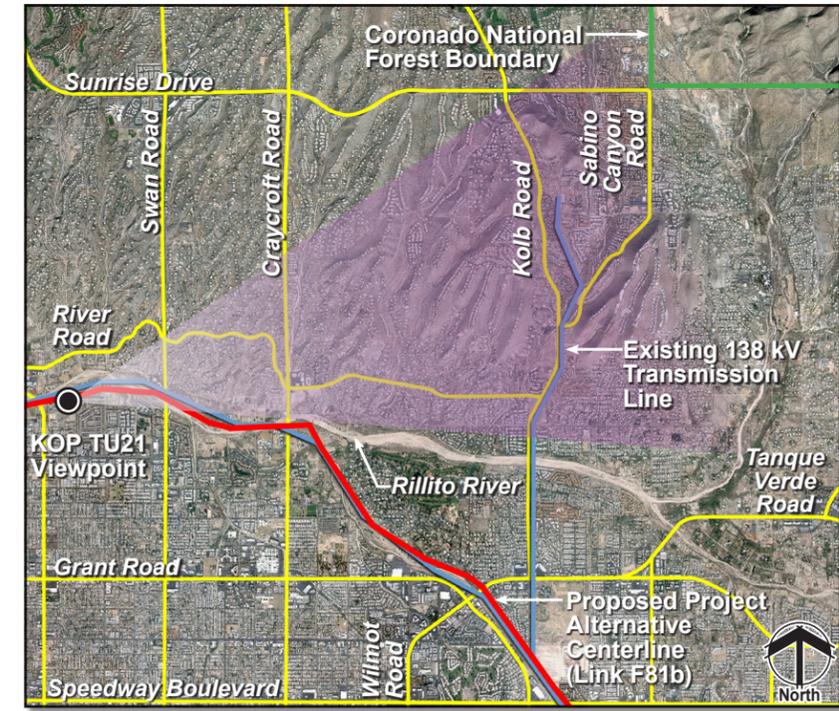


Photo Date and Time: 1-21-11, 10:01 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.

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**Existing Condition** – View east from Mehl Park along Rillito River (KOP TU21) toward Agua Caliente Hill. Recreation viewers and adjacent residences have views of the Santa Catalina Mountains.



**Photograph Location:** Viewpoint is immediately adjacent to proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures. The Project would be partially skylined from a level viewing condition with minimal screening.

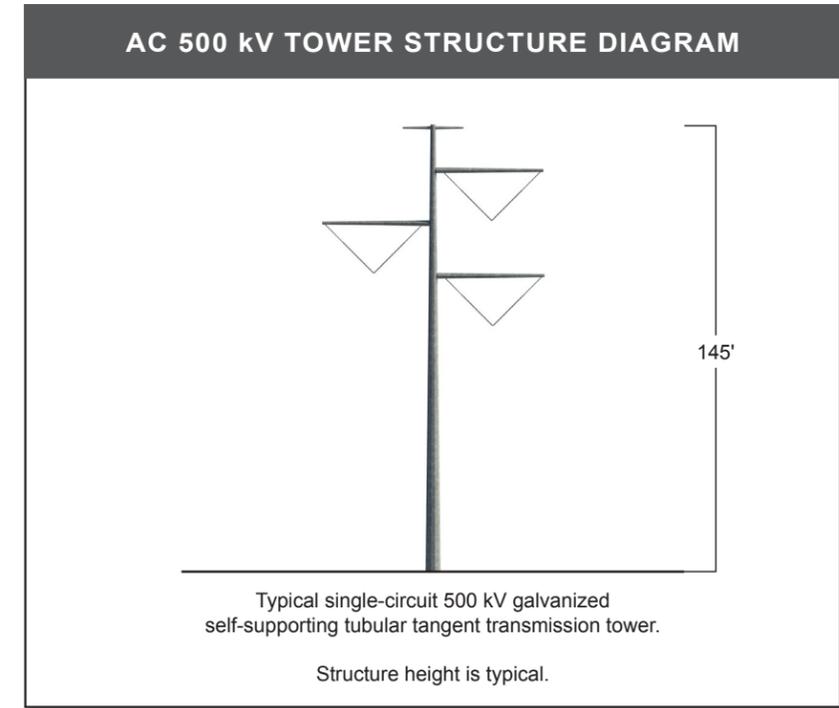


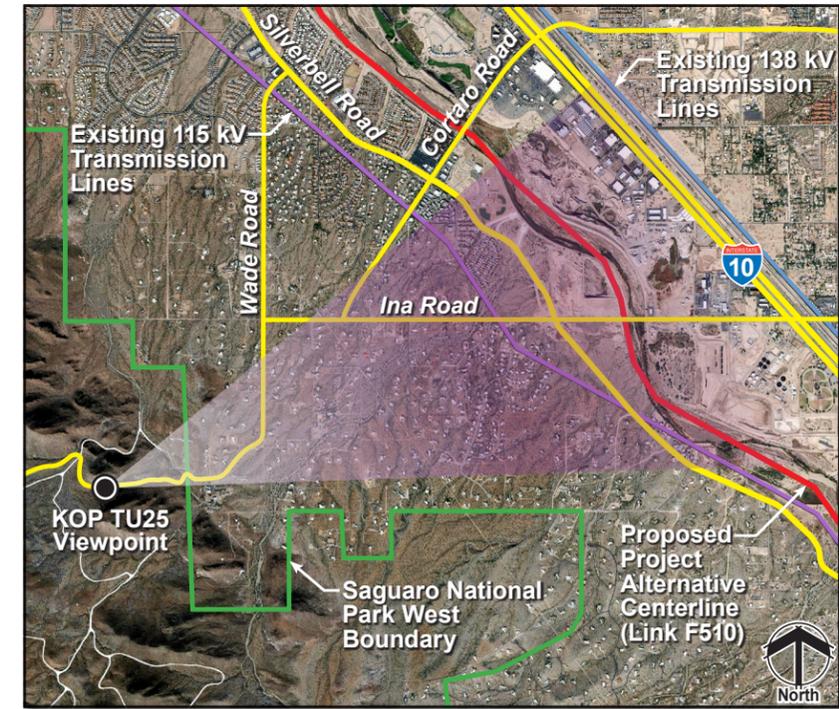
Photo Date and Time: 1-21-11, 2:15 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View east from West Picture Rocks Road within Saguaro National Park West (KOP TU25), a nationally important recreation area near Tucson, Arizona. Adjacent scenery includes the Santa Catalina Mountains.



**Photograph Location:** Viewpoint is approximately 2.6 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagram), including standard mitigation measures. Superior views of the Project would be viewed in the context of the developed area of Tucson, Arizona.

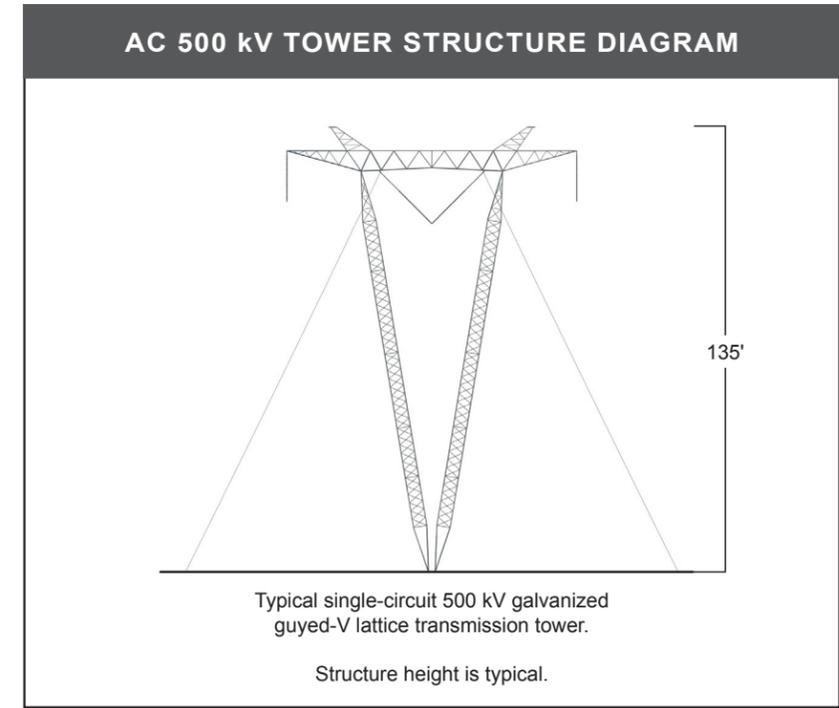


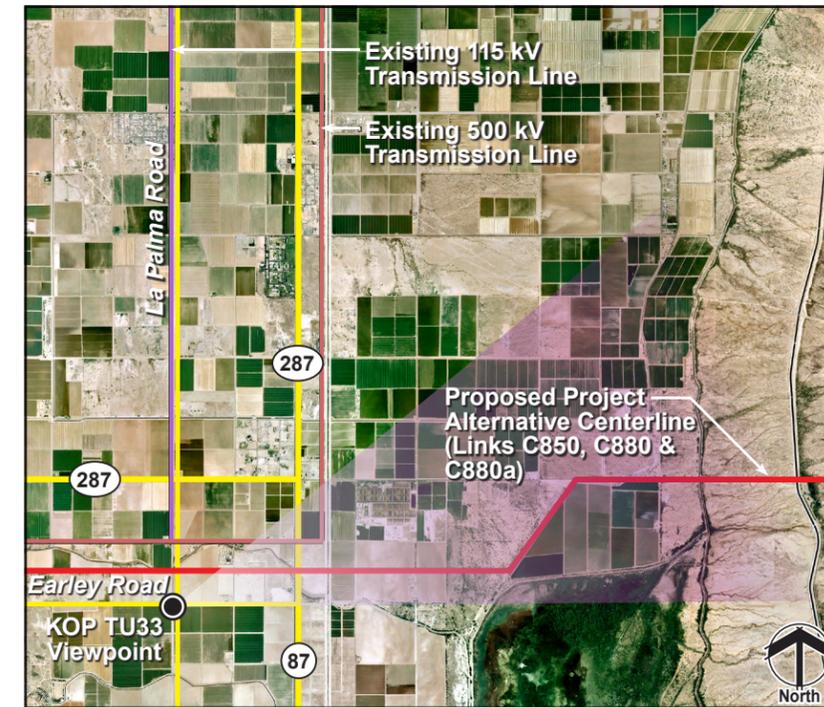
Photo Date and Time: 1-21-11, 3:47 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View northeast toward residences on Earley Road (KOP TU33). Existing distribution lines, a 500 kV transmission line, and agriculture modify the landscape setting.



**Photograph Location:** Viewpoint is approximately 0.4 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures. The Project would be minimally screened and partially skylined.

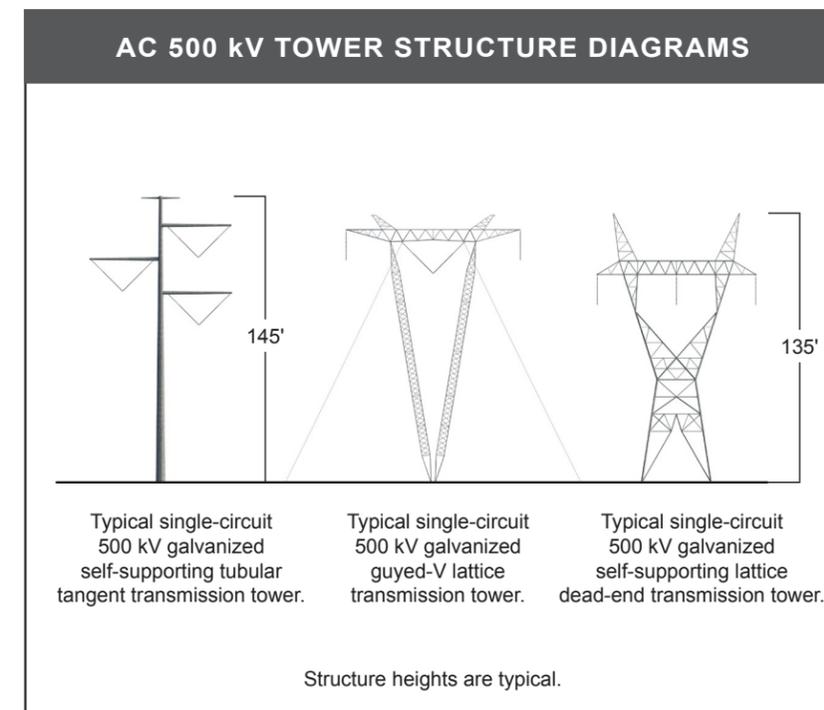


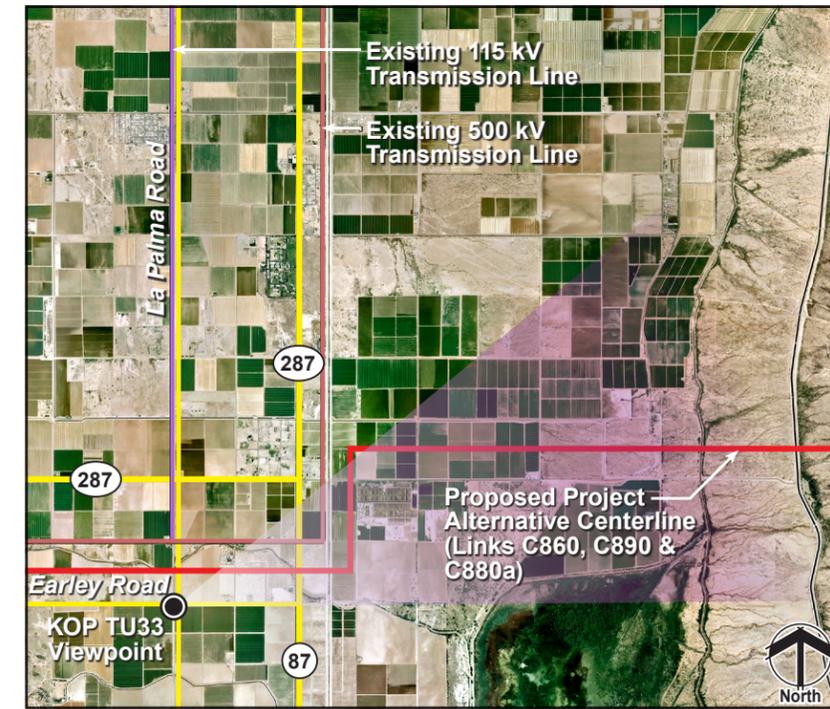
Photo Date and Time: 1-21-11, 4:57 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View northeast toward residences on Earley Road (KOP TU33). Existing distribution lines, a 500 kV transmission line, and agriculture modify the landscape setting.



**Photograph Location:** Viewpoint is approximately 0.4 mile from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams), including standard mitigation measures. The Project would be minimally screened and partially skylined.

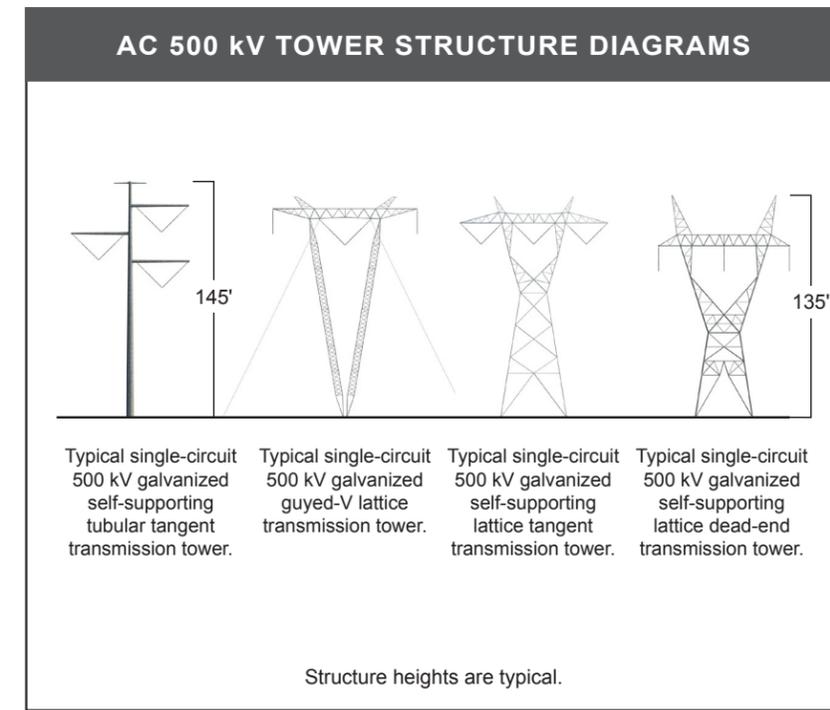


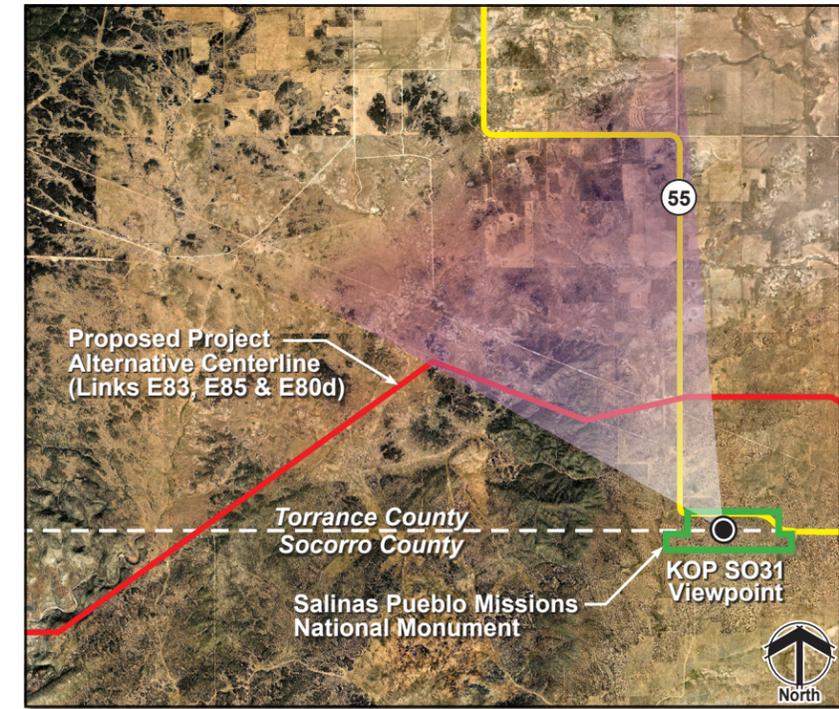
Photo Date and Time: 1-21-11, 4:57 p.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View northwest from the Gran Quivira Ruins within the Salinas Pueblo Missions National Monument (KOP SO31).



**Photograph Location:** Viewpoint is approximately 2.0 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams) based on standard mitigation measures and typical spans. Portions of the Project would be seen from a superior viewing position in a setting where cultural modifications are present but minimal.

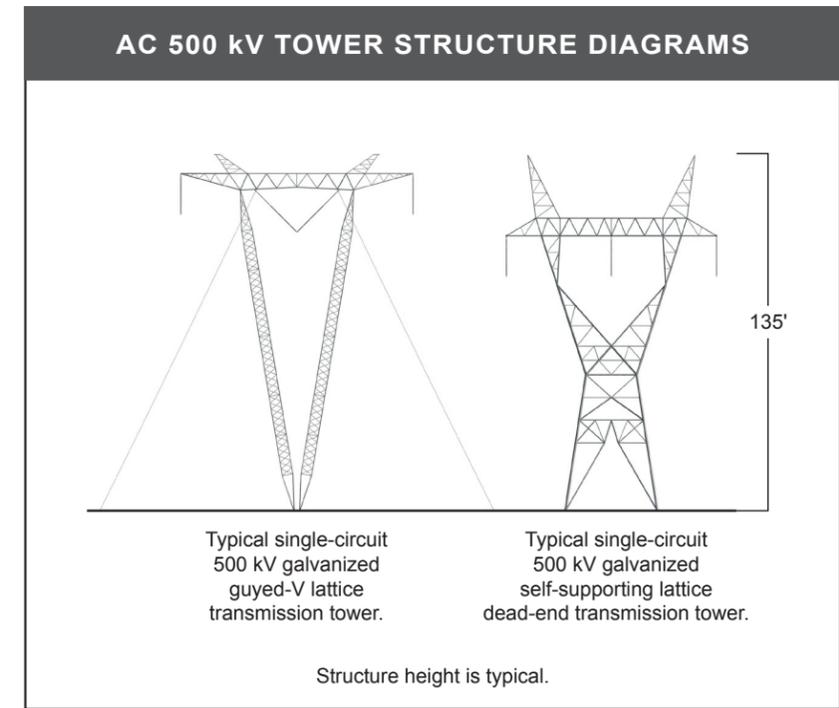


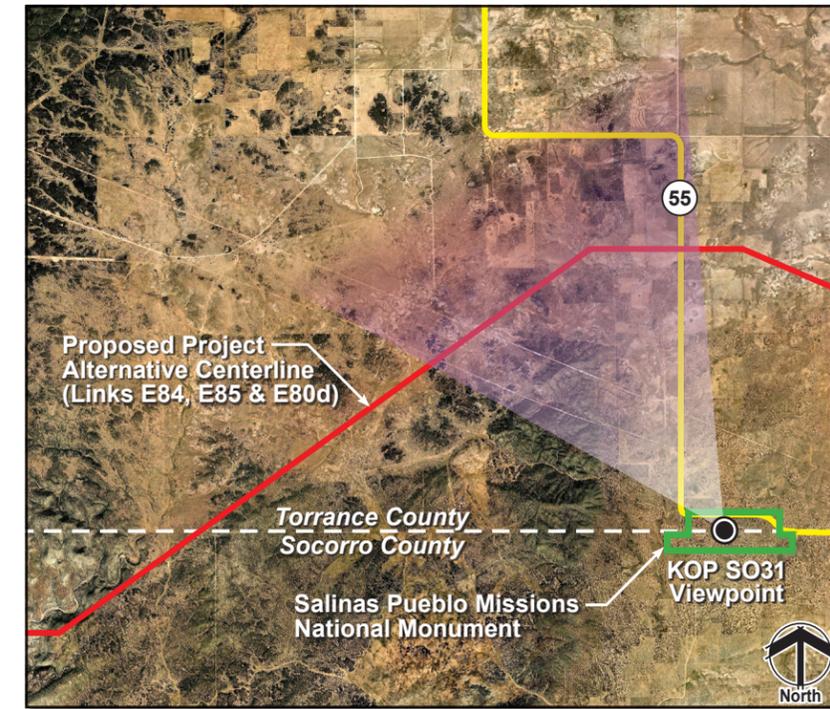
Photo Date and Time: 5-25-11, 10:01 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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**Existing Condition** – View northwest from the Gran Quivira Ruins within the Salinas Pueblo Missions National Monument (KOP SO31).



**Photograph Location:** Viewpoint is approximately 4.3 miles from proposed transmission lines.



**Simulation** – Proposed Project (see AC 500 kV Tower Structure Diagrams) based on standard mitigation measures and typical spans. Portions of the Project would be seen from a superior viewing position in a setting where cultural modifications are present but minimal.

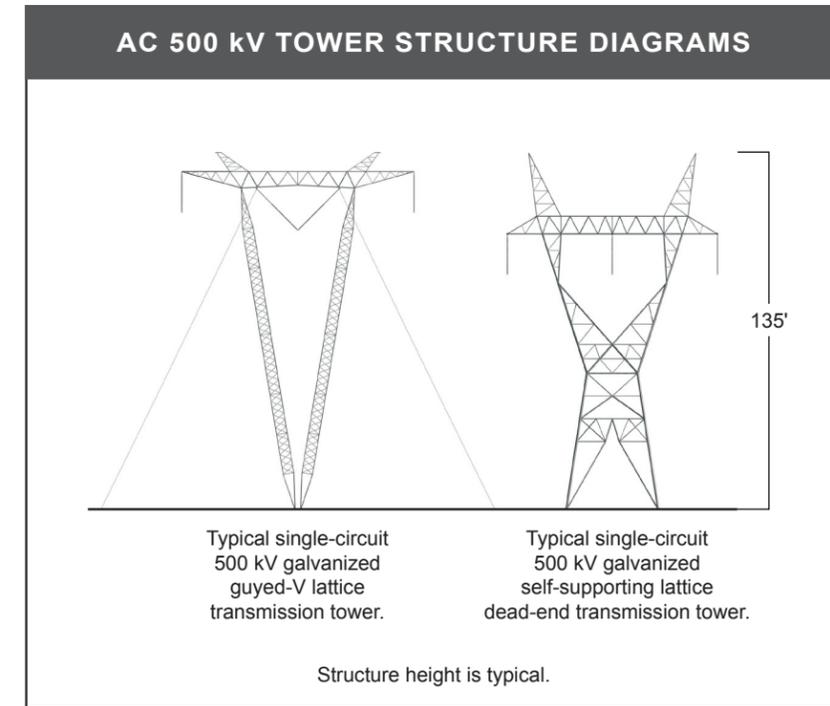


Photo Date and Time: 5-25-11, 10:01 a.m. Focal Length: 50mm  
 Simulations were prepared using three-dimensional structure models provided by the owner's engineer.  
 Typical structures would range between 125 to 160 feet above ground with a span of 1,000 to 1,500 feet. Typical conductor sag would be 45' feet above ground.  
 Facility locations, colors, and heights will differ based on final engineering and design.



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