

## **Appendix I**

### **Visual Simulations**



# Chokecherry and Sierra Madre Wind Energy Project EIS

PHOTO SIMULATIONS AND CONTRAST RATINGS DOCUMENT

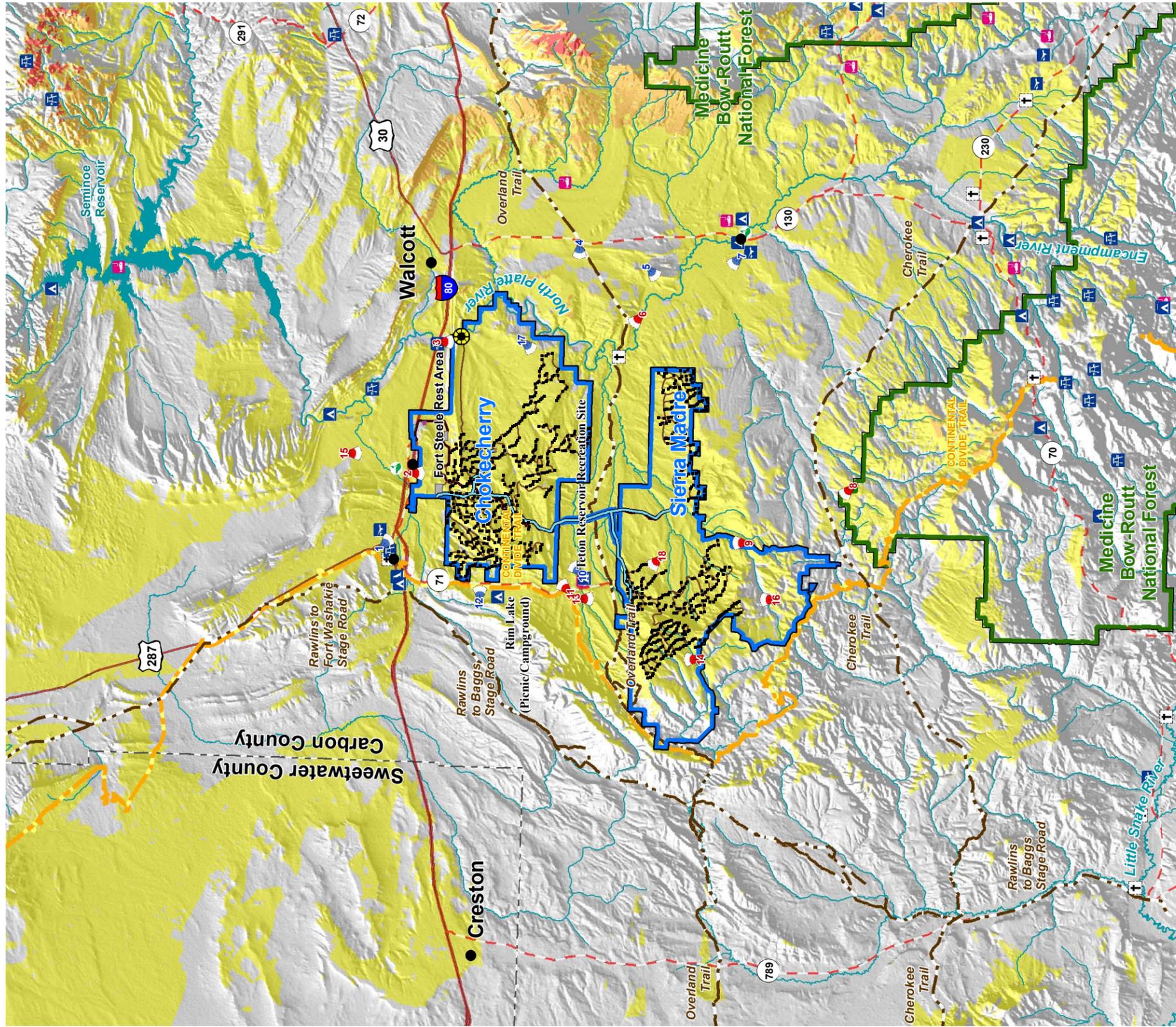
JUNE 2011

## Table of Contents:

page:

WTG Viewshed Analysis Alternatives	1
Typical Wind Turbine Generator	5
Existing Wind Turbine Generator Photos from Happy Jack Wind Farm	6
KOP 1: Rawlins Recreation Center	8
KOP 4: State Highway 130 @ Overland Trail Historical Marker	12
KOP 5: County Road 508 to Pick Bridge Public Access Area	16
KOP 7: West of Saratoga - County Road 385 @ County Road 500	20
KOP 10: Teton Reservoir Campground	24
KOP 12: CDNST Above Rim Lake	28
KOP 15: Seminoe to Alcove Scenic Byway BLM Kiosk	32
KOP 17: County Road 345 at Savage Hills	36
KOP 19: North Platte River	40

# WTG Viewshed Analysis Alternative 1R



**Chokecherry and Sierra Madre Wind Energy Project**

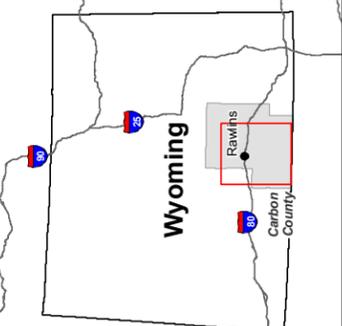
**Figure 4.12-1**

**WTG Viewshed Analysis Alternative 1R**

Scale: 1:650,000  
 0 5 10 15 Miles  
 0 5 10 15 Kilometers

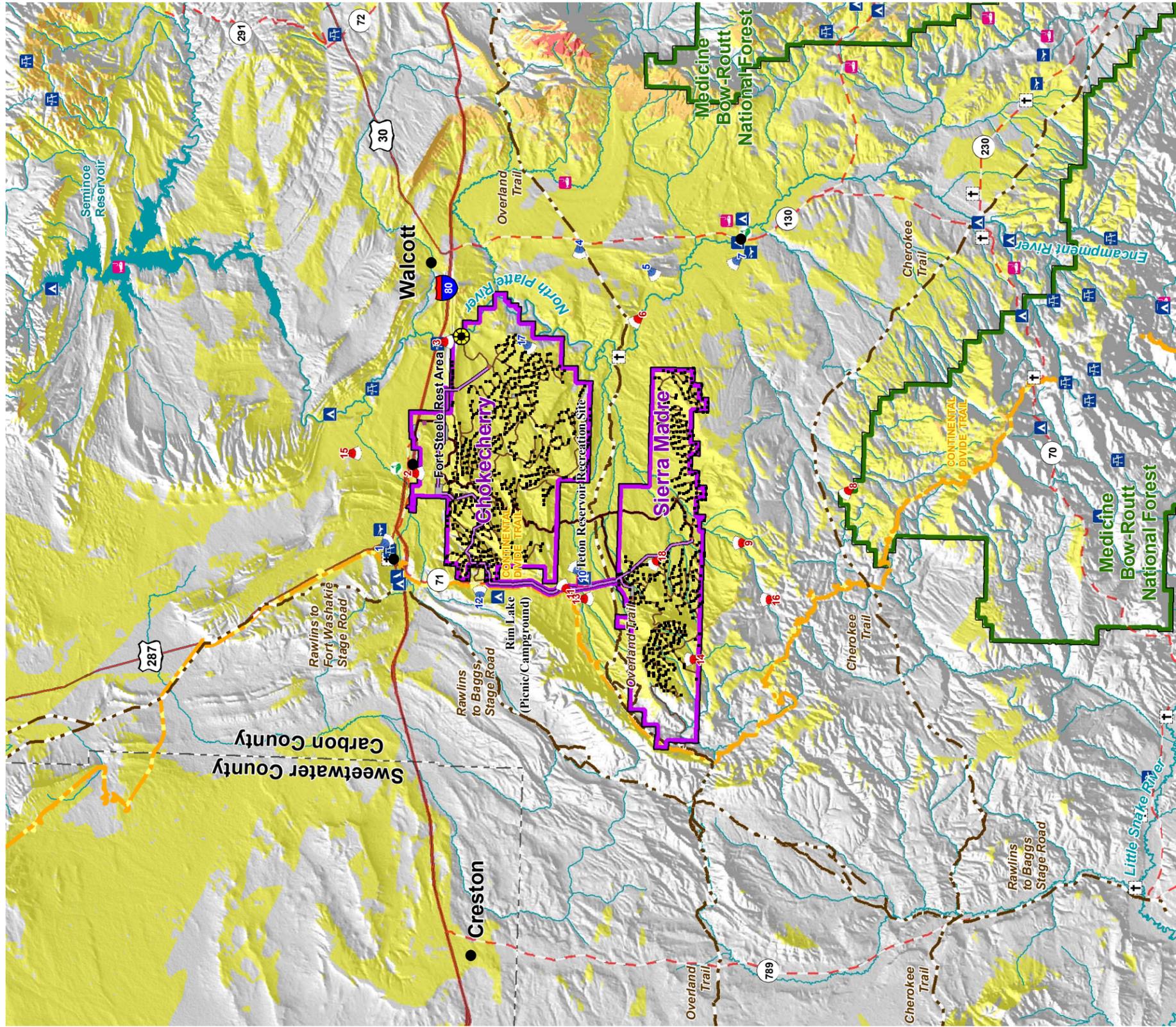
**Legend**

<ul style="list-style-type: none"> <li>Water Extraction Site</li> <li>Alternate O&amp;M Facility</li> <li>Intermodal Rail Facility</li> <li>Staging Area (Construction Only)</li> <li>Substation</li> </ul>	<ul style="list-style-type: none"> <li>Airport</li> <li>Cemetery</li> <li>Park or Rest Area</li> <li>Golf Course</li> <li>Fishing</li> <li>Campground</li> <li>Continental Divide</li> <li>Trail</li> <li>Historic Trail</li> </ul>
<ul style="list-style-type: none"> <li>Wind Turbine Generator</li> <li>Transmission Line</li> <li>Haul Road</li> <li>Resource Road</li> <li>Project Area</li> </ul>	<ul style="list-style-type: none"> <li>Key Observation Point</li> <li>Key Observation Point (With Photo Simulation)</li> </ul>
<ul style="list-style-type: none"> <li>Turbine Visibility</li> <li>666 - 1000 Turbines</li> <li>333 - 666 Turbines</li> <li>1 - 333 Turbines</li> </ul>	



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# WTG Viewshed Analysis Alternative 2



**Chokecherry and Sierra Madre Wind Energy Project**

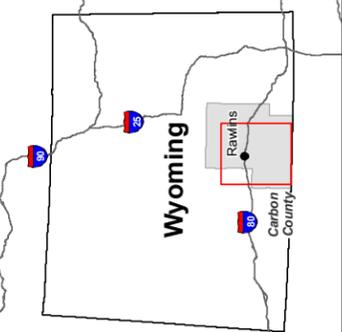
**Figure 4.12-3**

**WTG Viewshed Analysis Alternative 2**

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 0 5 10 15 Kilometers

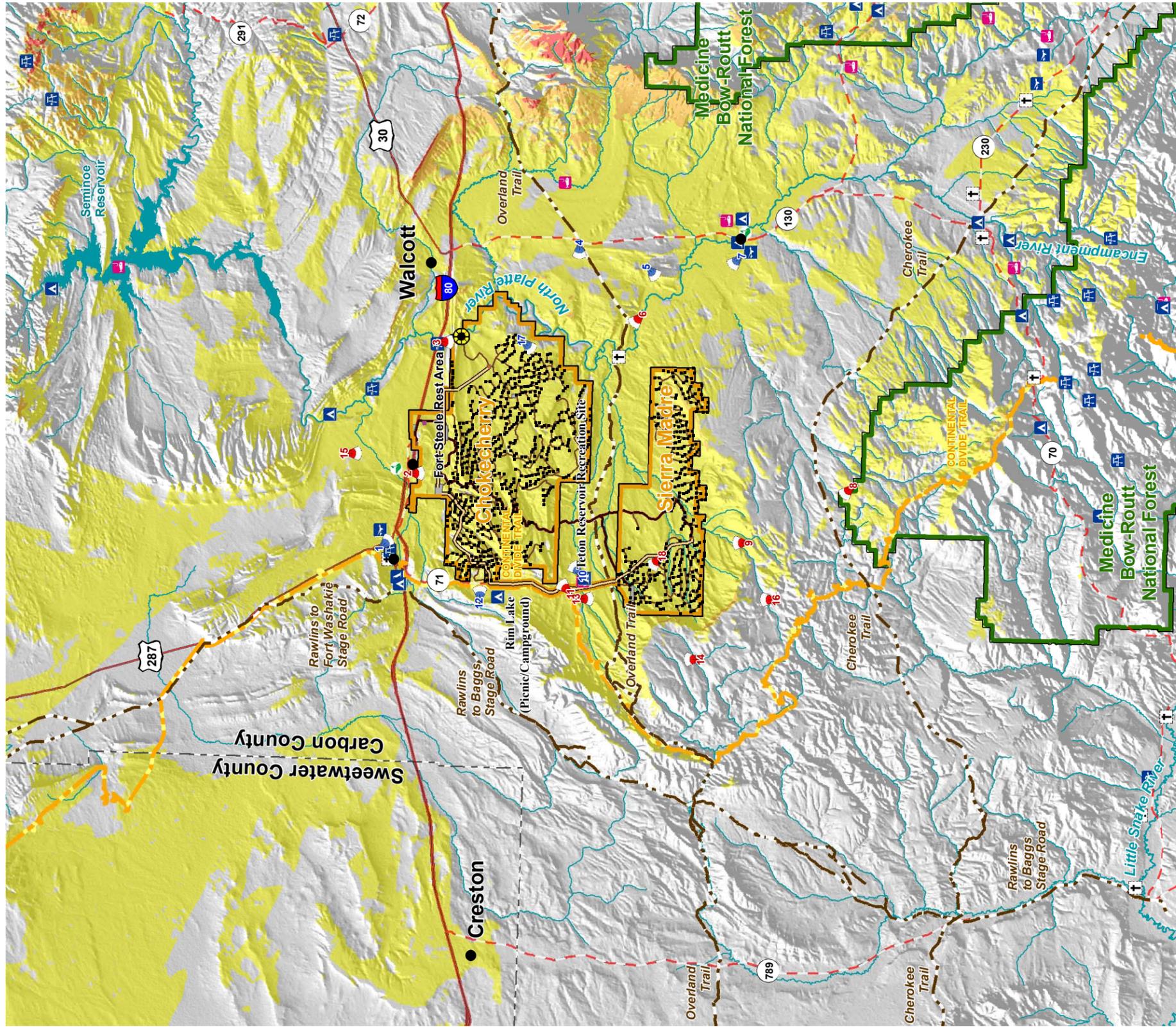
**Legend**

<ul style="list-style-type: none"> <li>Wind Turbine Generator</li> <li>Transmission Line</li> </ul>	<ul style="list-style-type: none"> <li>Water Extraction Site</li> <li>Alternate O&amp;M Facility</li> <li>Intermodal Rail Facility</li> <li>Staging Area (Construction Only)</li> <li>Substation</li> </ul>	<ul style="list-style-type: none"> <li>Airport</li> <li>Cemetery</li> <li>Park or Rest Area</li> <li>Golf Course</li> <li>Fishing</li> <li>Campground</li> <li>Continental Divide</li> <li>Trail</li> <li>Historic Trail</li> </ul>
<ul style="list-style-type: none"> <li>Project Roads</li> <li>Haul Road</li> <li>Resource Road</li> <li>Application Area</li> <li>Key Observation Point</li> <li>Key Observation Point (With Photo Simulation)</li> </ul>	<ul style="list-style-type: none"> <li>Turbine Visibility</li> <li>666 - 1000 Turbines</li> <li>333 - 666 Turbines</li> <li>1 - 333 Turbines</li> </ul>	



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# WTG Viewshed Analysis Alternative 3



**Chokecherry and Sierra Madre Wind Energy Project**

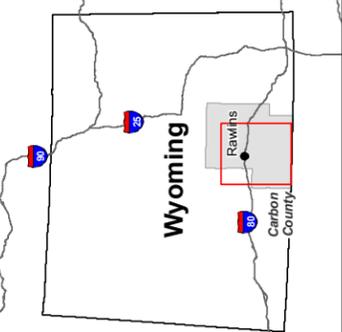
**Figure 4.12-5**

**WTG Viewshed Analysis Alternative 3**

Scale: 1:650,000  
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 0 5 10 15 Kilometers

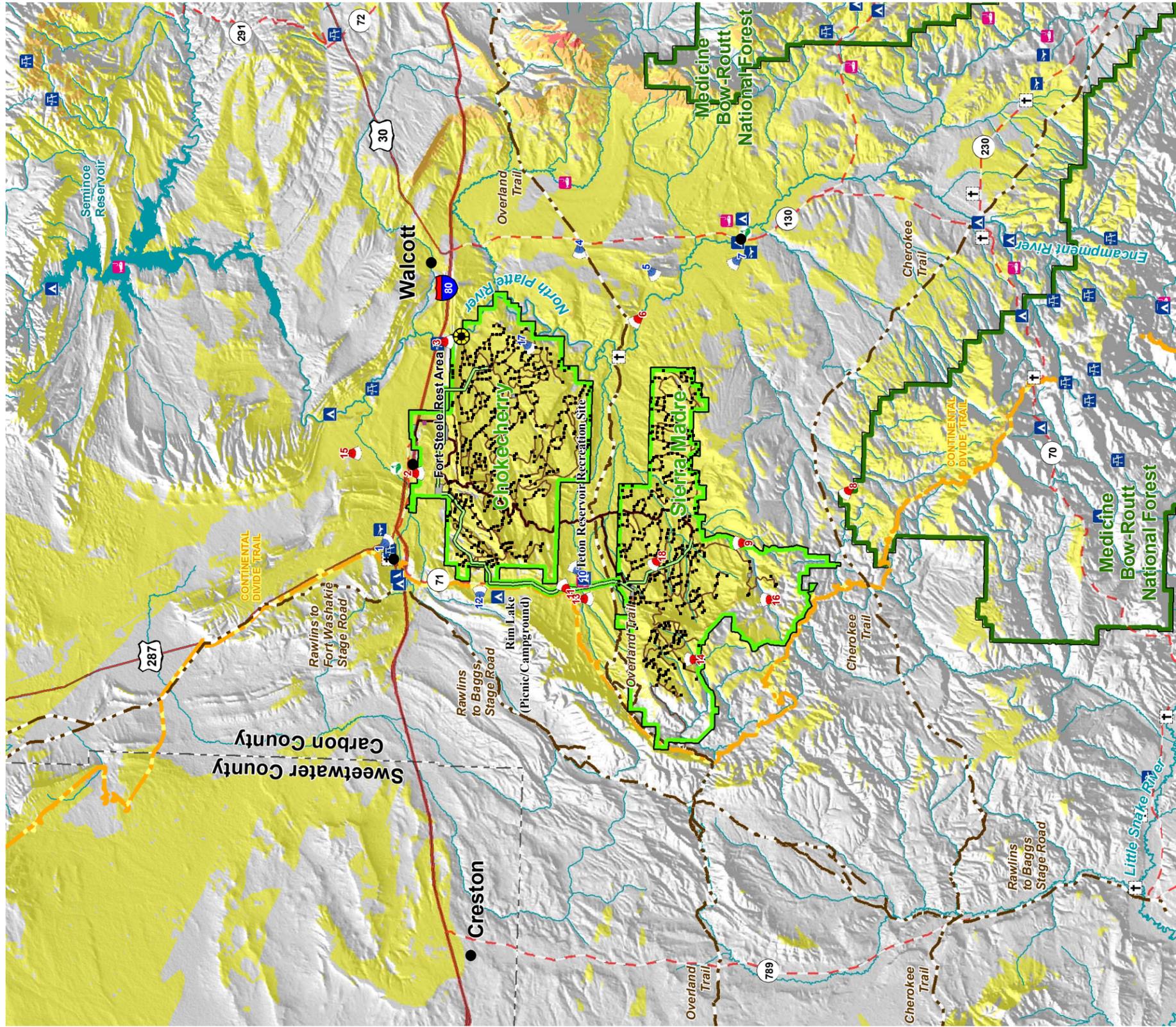
**Legend**

<ul style="list-style-type: none"> <li>Wind Turbine Generator</li> <li>Transmission Line</li> </ul>	<ul style="list-style-type: none"> <li>Water Extraction Site</li> <li>Alternate O&amp;M Facility</li> <li>Intermodal Rail Facility</li> <li>Staging Area (Construction Only)</li> <li>Substation</li> </ul>	<ul style="list-style-type: none"> <li>Airport</li> <li>Cemetery</li> <li>Park or Rest Area</li> <li>Golf Course</li> <li>Fishing</li> <li>Campground</li> <li>Continental Divide</li> <li>Trail</li> <li>Historic Trail</li> </ul>
<ul style="list-style-type: none"> <li>Project Roads</li> <li>Haul Road</li> <li>Resource Road</li> <li>Project Area</li> <li>Key Observation Point</li> <li>Key Observation Point (With Photo Simulation)</li> </ul>	<ul style="list-style-type: none"> <li>Turbine Visibility</li> <li>666 - 1000 Turbines</li> <li>333 - 666 Turbines</li> <li>1 - 333 Turbines</li> </ul>	



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# WTG Viewshed Analysis Alternative 4



**Chokecherry and Sierra Madre Wind Energy Project**

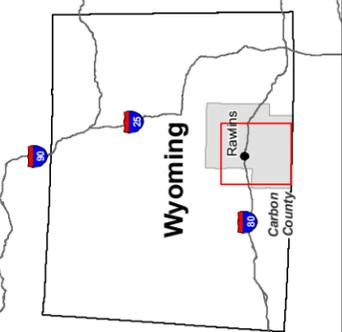
**Figure 4.12-7**

**WTG Viewshed Analysis Alternative 4**

0 5 10 15 Miles  
0 5 10 15 Kilometers  
1:650,000

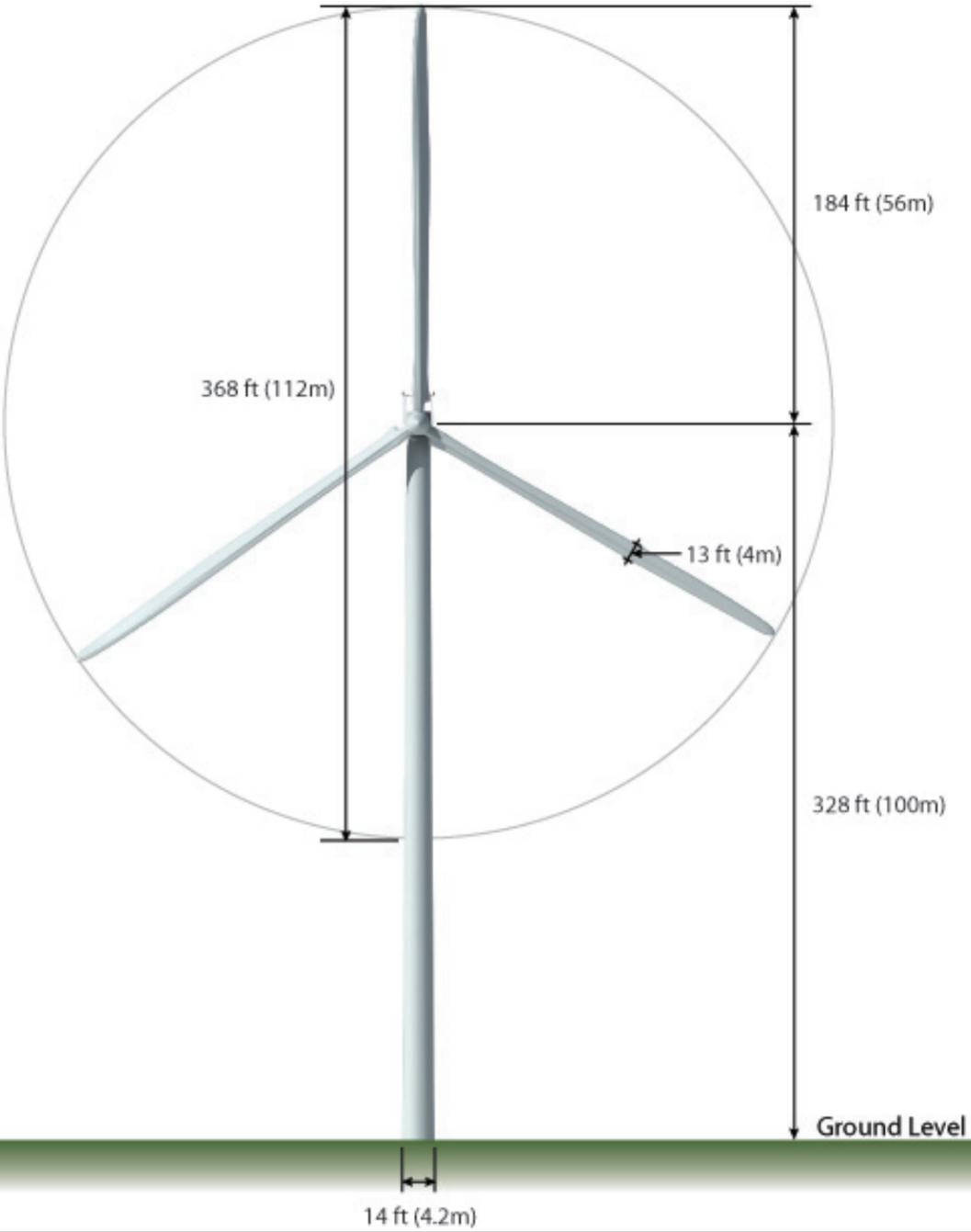
**Legend**

<ul style="list-style-type: none"> <li>Wind Turbine Generator</li> <li>Transmission Line</li> </ul>	<ul style="list-style-type: none"> <li>Water Extraction Site</li> <li>Alternate O&amp;M Facility</li> <li>Intermodal Rail Facility</li> <li>Staging Area (Construction Only)</li> <li>Substation</li> </ul>	<ul style="list-style-type: none"> <li>Airport</li> <li>Cemetery</li> <li>Park or Rest Area</li> <li>Golf Course</li> <li>Fishing</li> <li>Campground</li> <li>Continental Divide</li> <li>Trail</li> <li>Historic Trail</li> </ul>
<ul style="list-style-type: none"> <li>Project Roads</li> <li>Haul Road</li> <li>Resource Road</li> <li>Project Area</li> <li>Key Observation Point</li> <li>Key Observation Point (With Photo Simulation)</li> </ul>	<ul style="list-style-type: none"> <li>Turbine Visibility</li> <li>666 - 1000 Turbines</li> <li>333 - 666 Turbines</li> <li>1 - 333 Turbines</li> </ul>	



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Typical Wind Generator Turbine used in the Chokecherry-Sierra Madre Wind Project EIS



Typical WTG used in the photographic simulations: 328 ft (100m) height to hub, 184 ft (56m) rotor at 20% grey color. Actual WTGs constructed for the project may have smaller dimensions. A specific turbine make and model has not been selected by PCW.



**Existing Conditions at Happy Jack Wind Farm with 2.1 MW WTGs in Cheyenne, Wyoming. Closest WTG is 8 miles away. Source: AECOM**



**Existing Conditions at Happy Jack Wind Farm with 2.1 MW WTGs in Cheyenne, Wyoming. Closest WTG is 2,000 feet away. Source: AECOM**

# KOP 1: Rawlins Recreation Center

## Existing Conditions



The KOP is at the Rawlins Recreation Center within the city of Rawlins. The view is towards the southeast, and shows ridgetops and north-facing slopes of the Chokecherry area about 5 miles from the KOP.

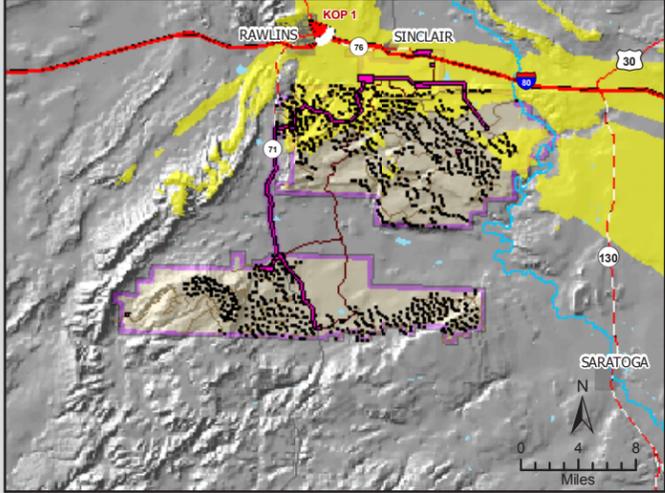


Photo Location Map

## Alternative 2



**Items Not Simulated:**

- Substation
- Access Roads
- Intermodal Facilities

# KOP 1: Rawlins Recreation Center

## Existing Conditions



The KOP is at the Rawlins Recreation Center within the city of Rawlins. The view is towards the southeast, and shows ridgetops and north-facing slopes of the Chokecherry area about 5 miles from the KOP.

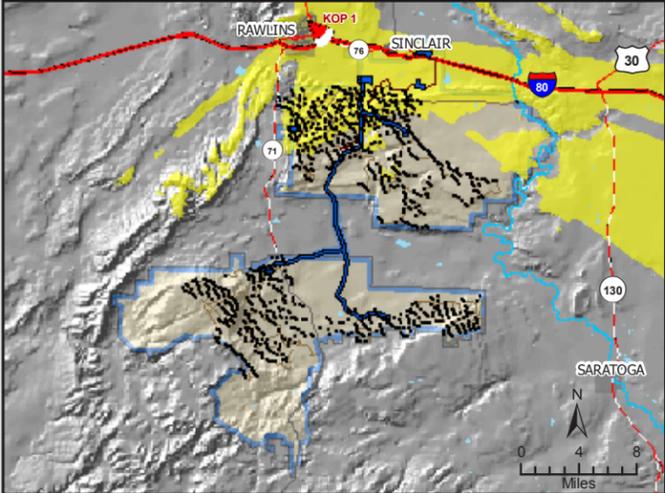


Photo Location Map

## Alternative 1R



- Items Not Simulated:**
- Substation
  - Access Roads
  - Intermodal Facilities

# KOP 1: Rawlins Recreation Center

## Existing Conditions



The KOP is at the Rawlins Recreation Center within the city of Rawlins. The view is towards the southeast, and shows ridgetops and north-facing slopes of the Chokecherry area about 5 miles from the KOP.

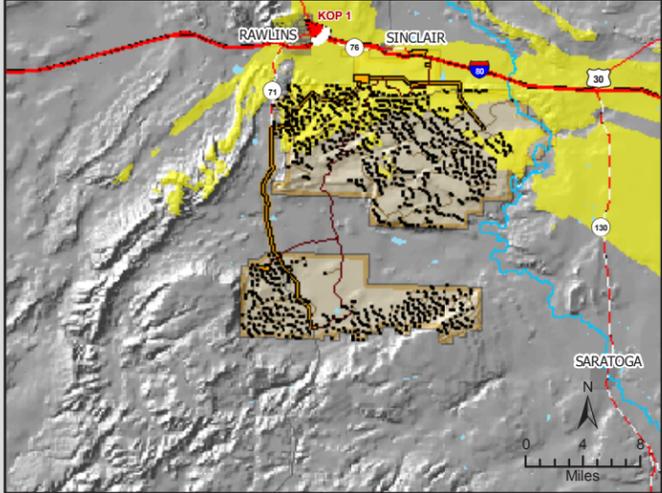
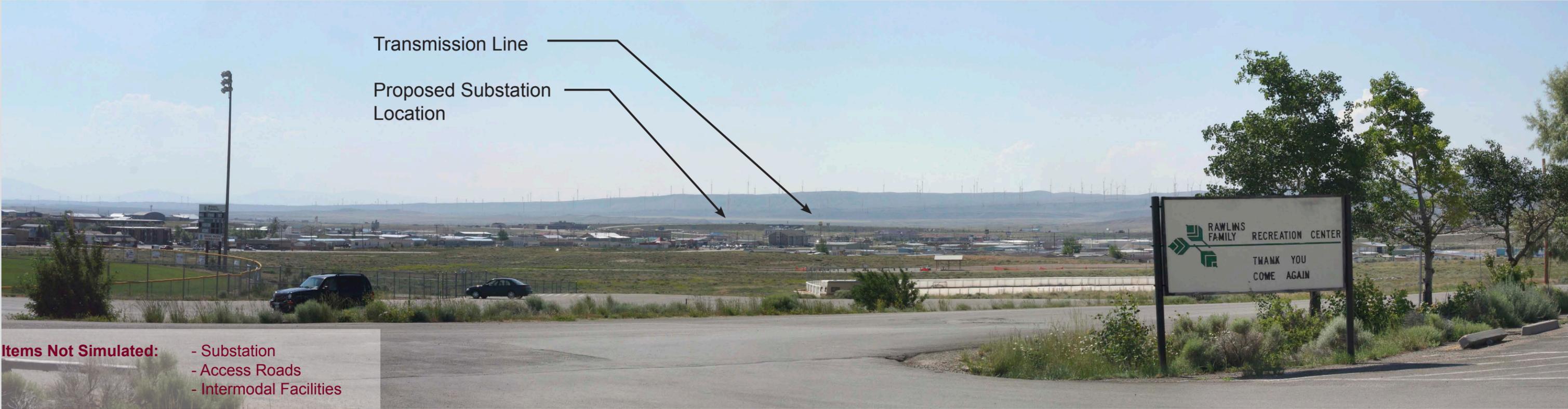


Photo Location Map

## Alternative 3



**Items Not Simulated:**

- Substation
- Access Roads
- Intermodal Facilities

# KOP 1: Rawlins Recreation Center

## Existing Conditions



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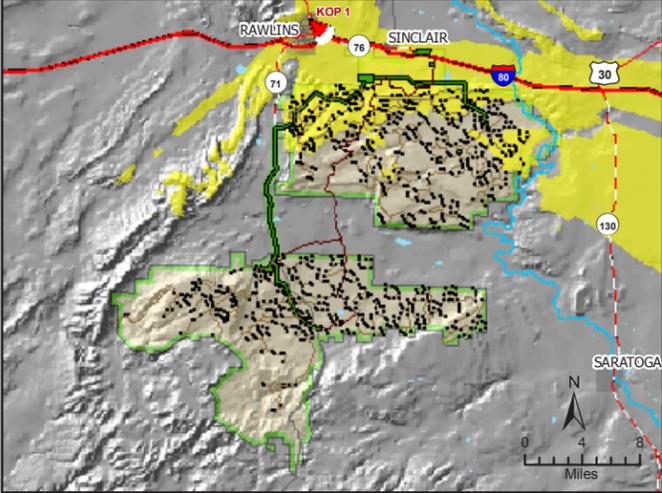
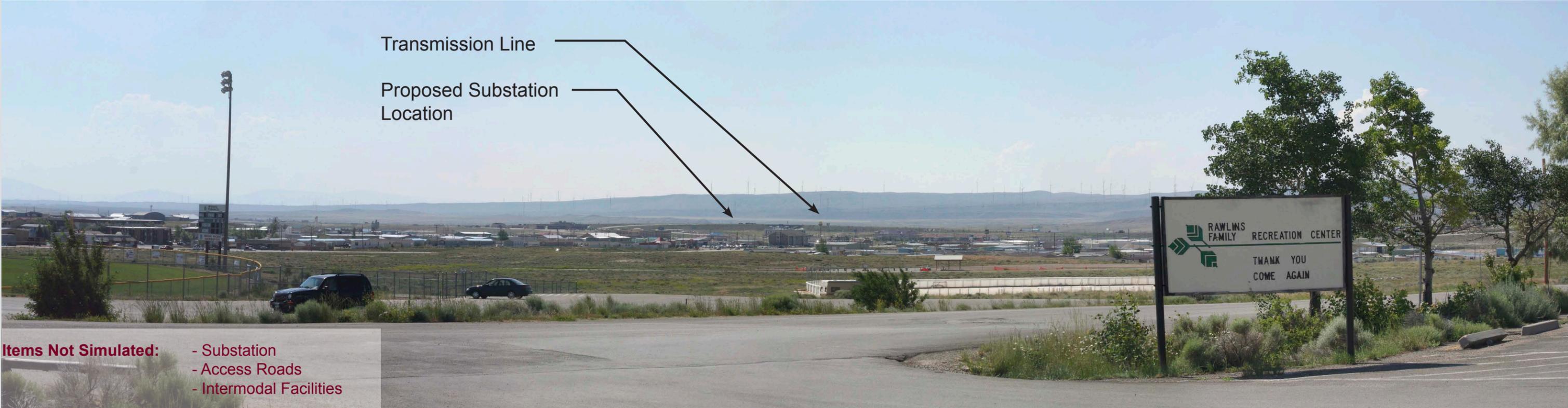


Photo Location Map

## Alternative 4

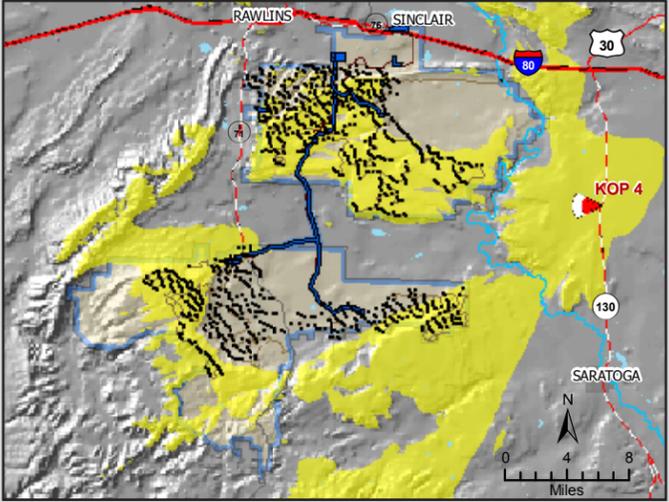


**Items Not Simulated:**

- Substation
- Access Roads
- Intermodal Facilities

# KOP 4: State Highway 130 at Overland Trail Historical Marker

## Existing Conditions



The KOP is at the Overland Historic Trail marker at the trail crossing of State Highway 130 approximately 10 miles north of Saratoga. The view is towards the west, and shows the southeast portion of the Chokecherry area about 7 miles from the KOP.

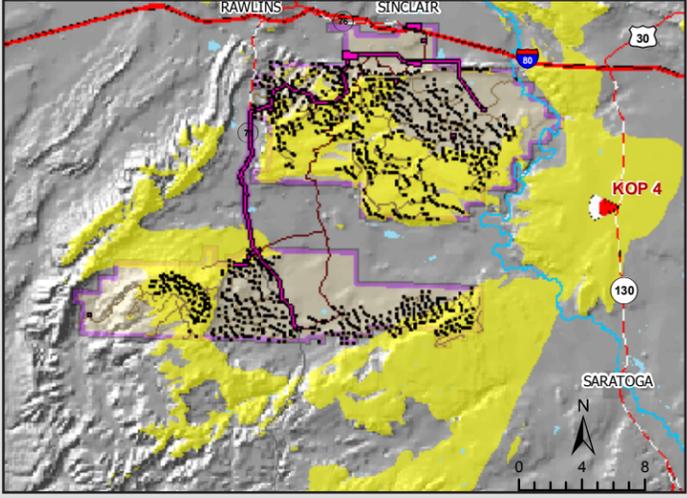
Photo Location Map

## Alternative 1R



# KOP 4: State Highway 130 at Overland Trail Historical Marker

## Existing Conditions



The KOP is at the Overland Historic Trail marker at the trail crossing of State Highway 130 approximately 10 miles north of Saratoga. The view is towards the west, and shows the southeast portion of the Chokecherry area about 7 miles from the KOP.

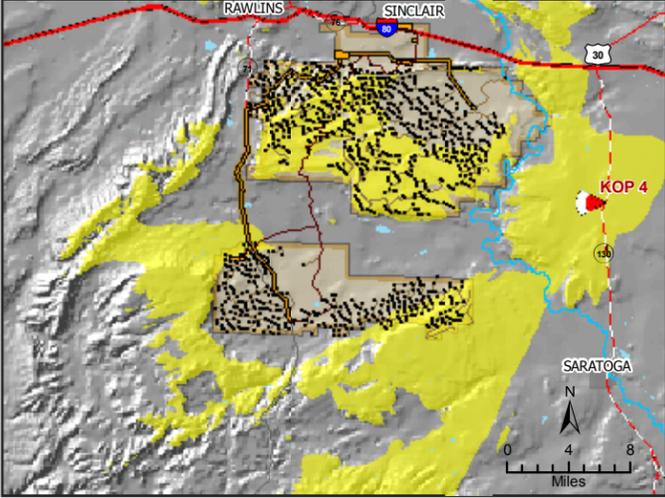
Photo Location Map

## Alternative 2



# KOP 4: State Highway 130 at Overland Trail Historical Marker

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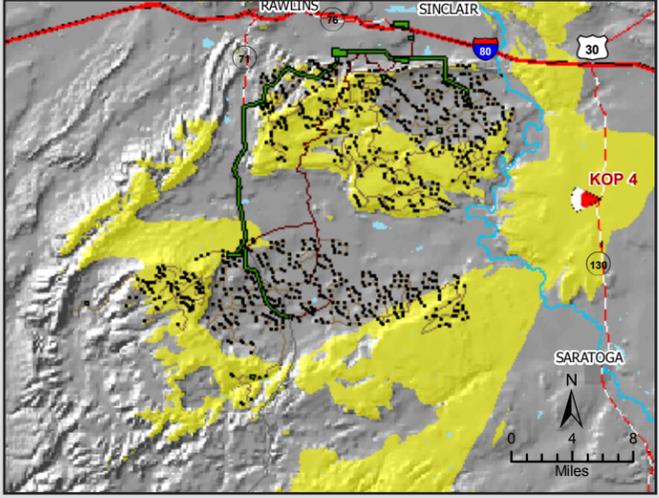
Photo Location Map

## Alternative 3



# KOP 4: State Highway 130 at Overland Trail Historical Marker

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The KOP is at the Overland Historic Trail marker at the trail crossing of State Highway 130 approximately 10 miles north of Saratoga. The view is towards the west, and shows the southeast portion of the Chokecherry area about 7 miles from the KOP.

Photo Location Map

## Alternative 4



# KOP 5: County Road 508 to Pick Bridge Public Access Area

## Existing Conditions



The KOP is on County Road 508, which provides access to the Pick Bridge Public Access Area from State Highway 130. The view is towards the southwest, showing the Sierra Madre area (7 miles).

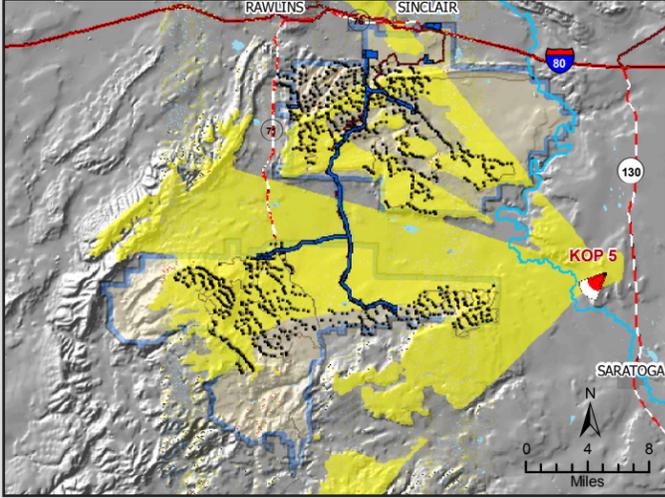


Photo Location Map

## Alternative 1R



# KOP 5: County Road 508 to Pick Bridge Public Access Area

## Existing Conditions



The KOP is on County Road 508, which provides access to the Pick Bridge Public Access Area from State Highway 130. The view is towards the southwest, showing the Sierra Madre area (7 miles).

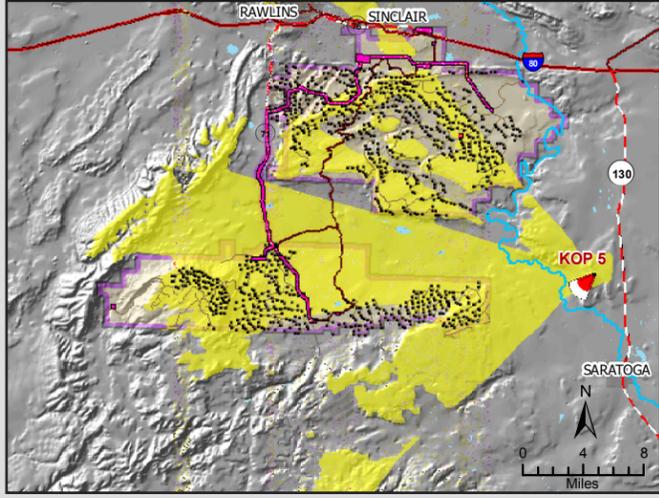


Photo Location Map

## Alternative 2



# KOP 5: County Road 508 to Pick Bridge Public Access Area

## Existing Conditions



The KOP is on County Road 508, which provides access to the Pick Bridge Public Access Area from State Highway 130. The view is towards the southwest, showing the Sierra Madre area (7 miles).

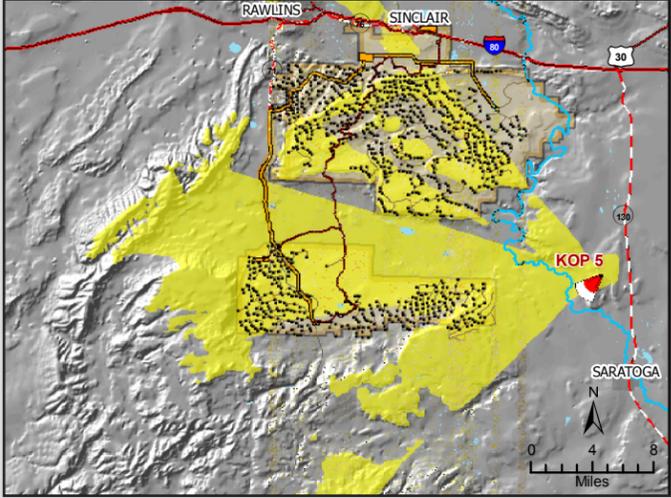


Photo Location Map

## Alternative 3



# KOP 5: County Road 508 to Pick Bridge Public Access Area

## Existing Conditions



The KOP is on County Road 508, which provides access to the Pick Bridge Public Access Area from State Highway 130. The view is towards the southwest, showing the Sierra Madre area (7 miles).

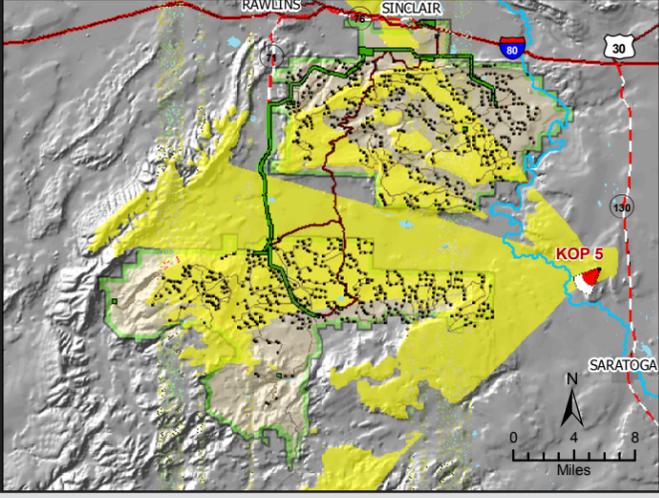


Photo Location Map

## Alternative 4



# KOP 7 : West of Saratoga - County Road 385 and County Road 500

## Existing Conditions



The junction of County Road 385 and County Road 500 is at the west boundary of Saratoga. The view is towards the northwest, showing the Sierra Madre area (7.5 miles).

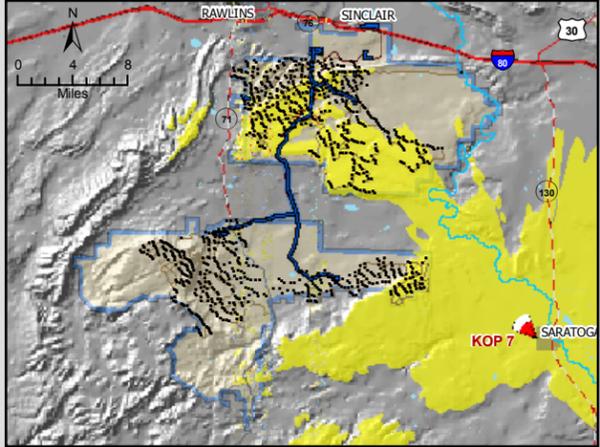


Photo Location Map

## Alternative 1R



# KOP 7 : West of Saratoga - County Road 385 and County Road 500

## Existing Conditions



The junction of County Road 385 and County Road 500 is at the west boundary of Saratoga. The view is towards the northwest, showing the Sierra Madre area (7.5 miles).

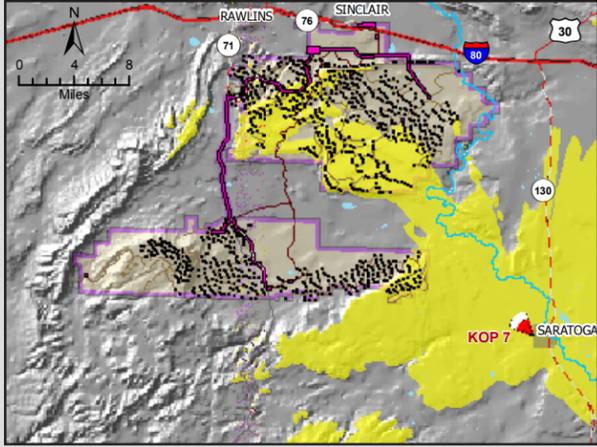


Photo Location Map

## Alternative 2



# KOP 7 : West of Saratoga - County Road 385 and County Road 500

## Existing Conditions



The junction of County Road 385 and County Road 500 is at the west boundary of Saratoga. The view is towards the northwest, showing the Sierra Madre area (7.5 miles).

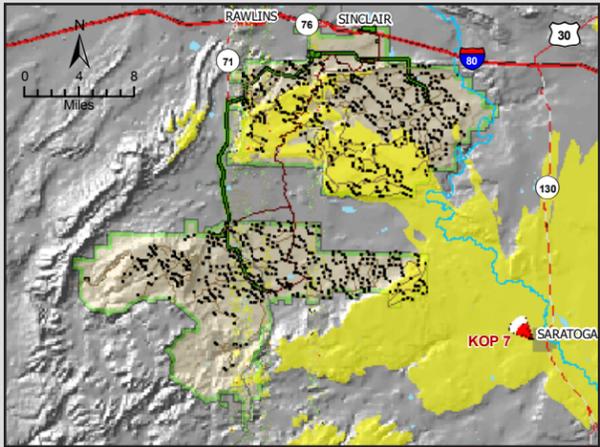


Photo Location Map

## Alternative 3



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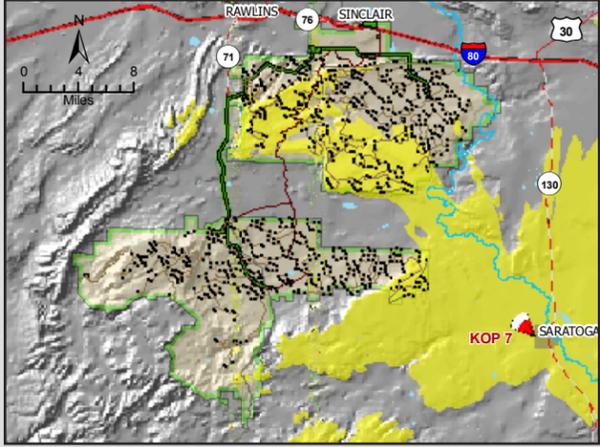


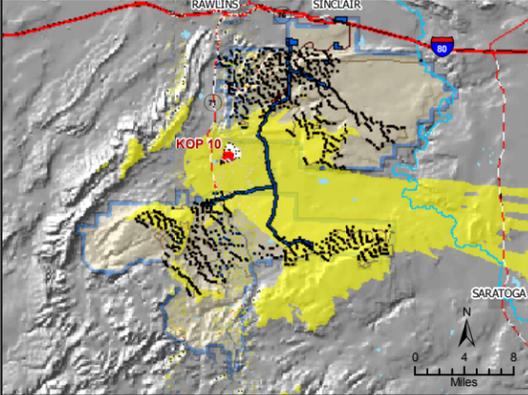
Photo Location Map

## Alternative 4



# KOP 10 : Teton Reservoir Campground

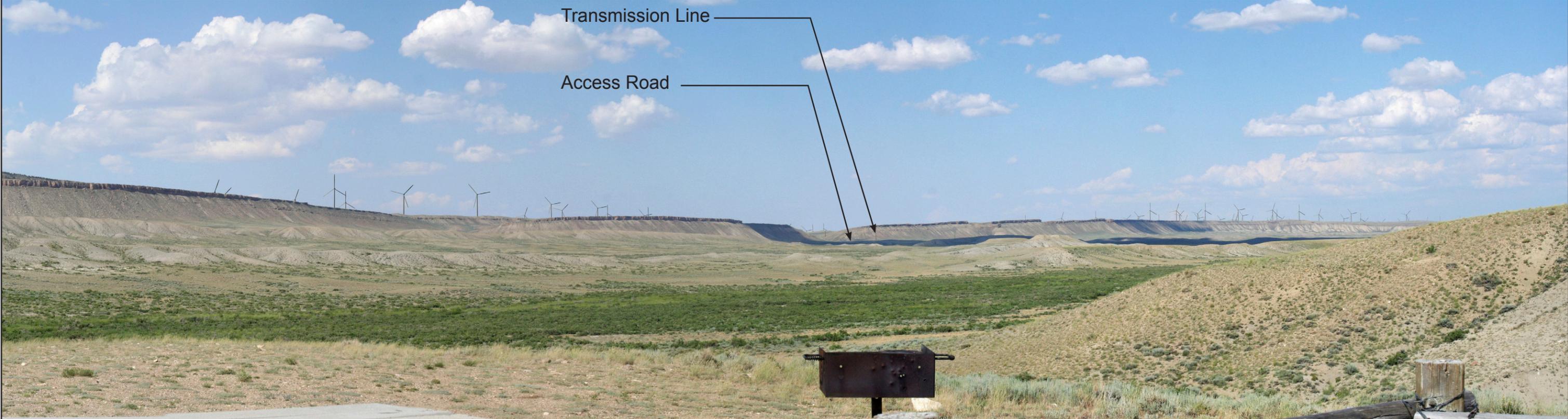
## Existing Conditions



The Teton Reservoir Campground is located east of Highway 71 and north of the Overland Historic Trail. The view is towards the northeast looking at Sheep Mountain and a steep ridge extending to the east in the Chokecherry area.

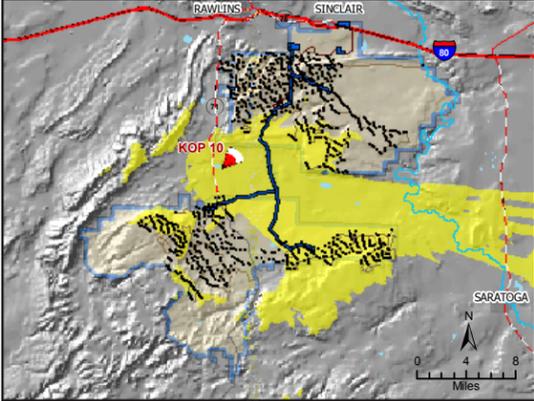
Photo Location Map

## Alternative 1R



# KOP 10 : Teton Reservoir Campground

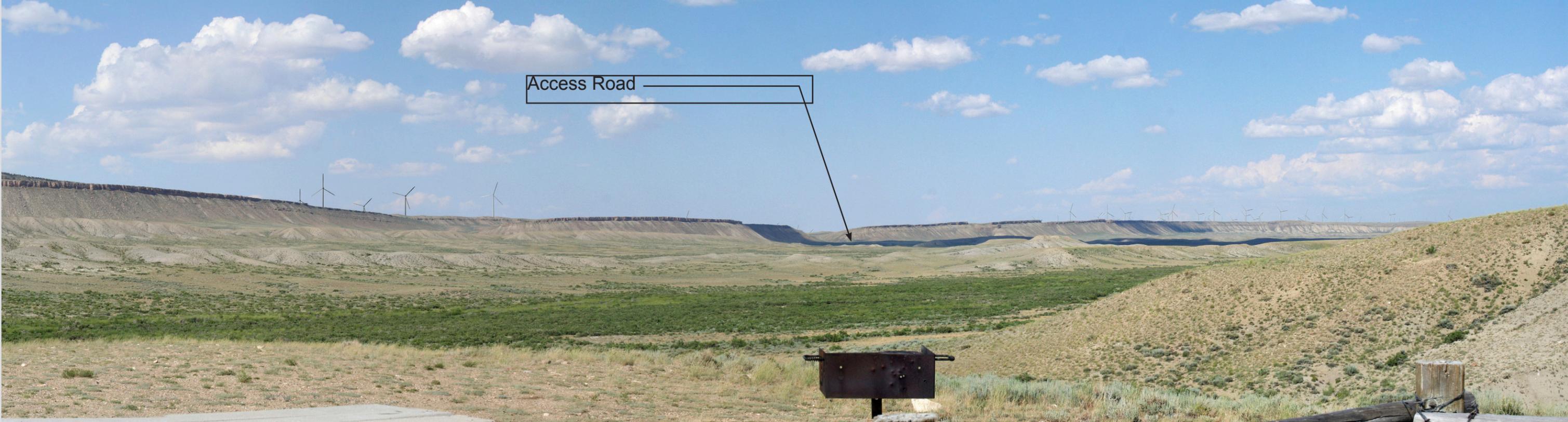
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The Teton Reservoir Campground is located east of Highway 71 and north of the Overland Historic Trail. The view is towards the northeast looking at Sheep Mountain and a steep ridge extending to the east in the Chokecherry area.

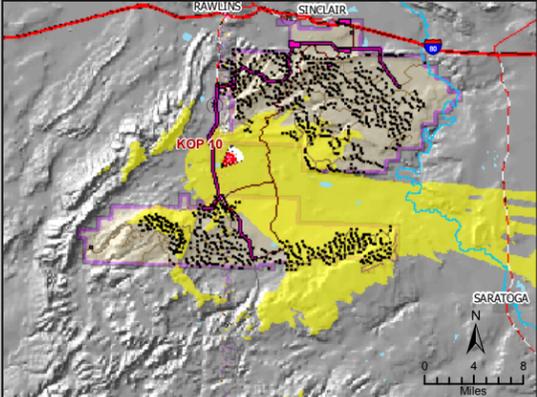
Photo Location Map

## Alternative 2



# KOP 10 : Teton Reservoir Campground

## Existing Conditions



The Teton Reservoir Campground is located east of Highway 71 and north of the Overland Historic Trail. The view is towards the northeast looking at Sheep Mountain and a steep ridge extending to the east in the Chokecherry area.

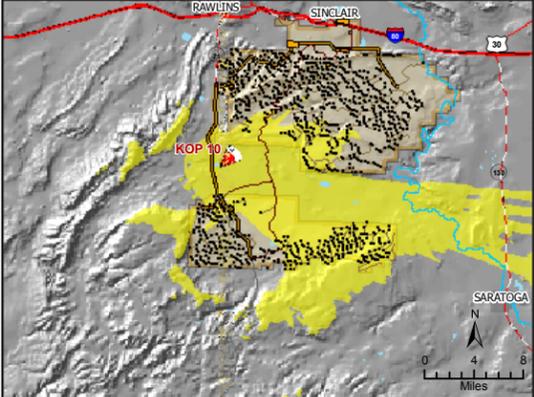
Photo Location Map

## Alternative 3



# KOP 10 : Teton Reservoir Campground

## Existing Conditions



The Teton Reservoir Campground is located east of Highway 71 and north of the Overland Historic Trail. The view is towards the northeast looking at Sheep Mountain and a steep ridge extending to the east in the Chokecherry area.

Photo Location Map

## Alternative 4



# KOP 12 CDNST Above Rim Lake

## Existing Conditions



The KOP is on the Continental Divide National Scenic Trail above the Rim Lake Recreation Site. The view is towards the east, looking at ridges at the west boundary of the Chokecherry area.

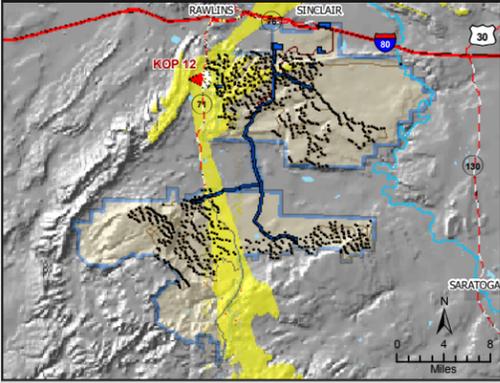


Photo Location Map

## Alternative 1R



# KOP 12 CDNST Above Rim Lake

## Existing Conditions



The KOP is on the Continental Divide National Scenic Trail above the Rim Lake Recreation Site. The view is towards the east, looking at ridges at the west boundary of the Chokecherry area.

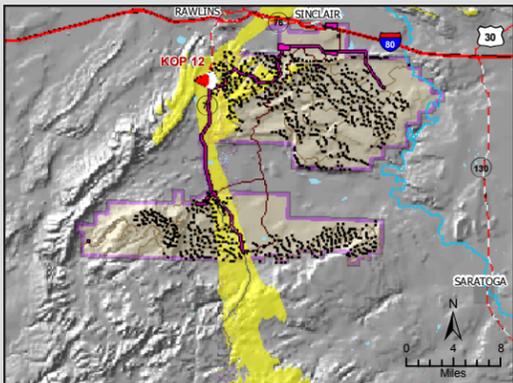
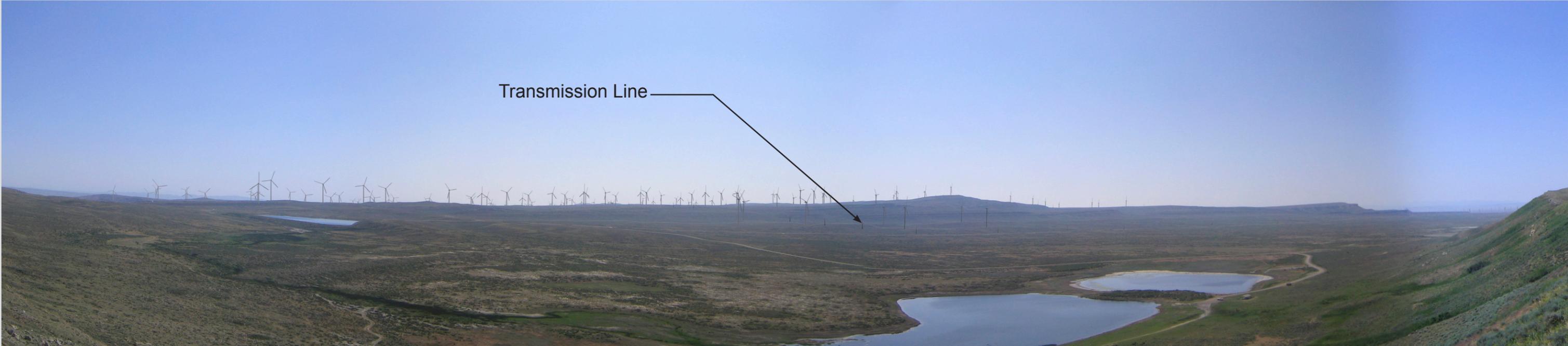


Photo Location Map

## Alternative 2



Transmission Line

# KOP 12 CDNST Above Rim Lake

## Existing Conditions



The KOP is on the Continental Divide National Scenic Trail above the Rim Lake Recreation Site. The view is towards the east, looking at ridges at the west boundary of the Chokecherry area.

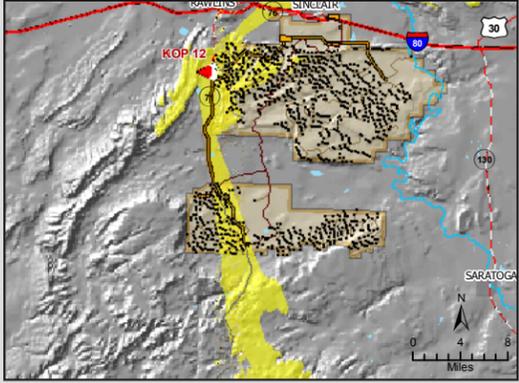
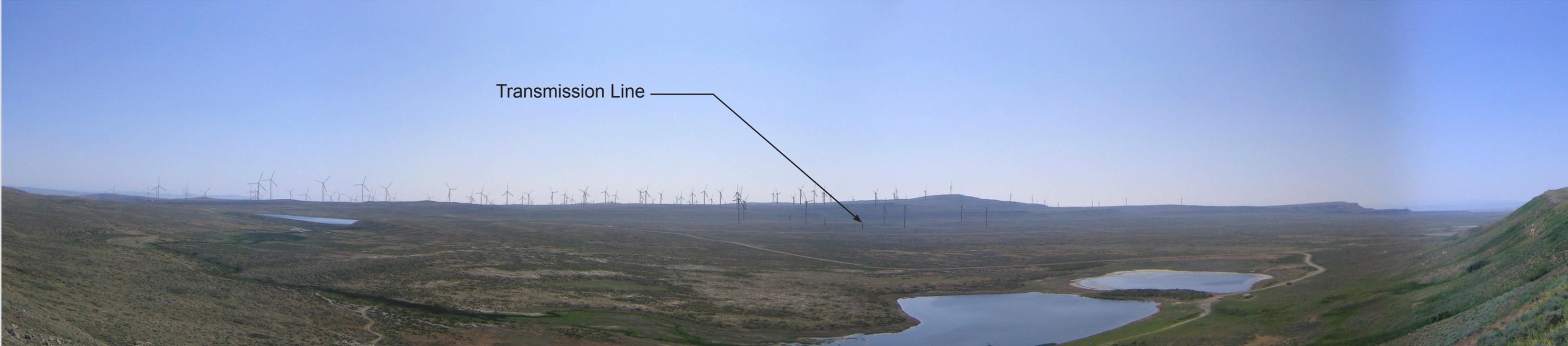


Photo Location Map

## Alternative 3



Transmission Line

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The KOP is on the Continental Divide National Scenic Trail above the Rim Lake Recreation Site. The view is towards the east, looking at ridges at the west boundary of the Chokecherry area.

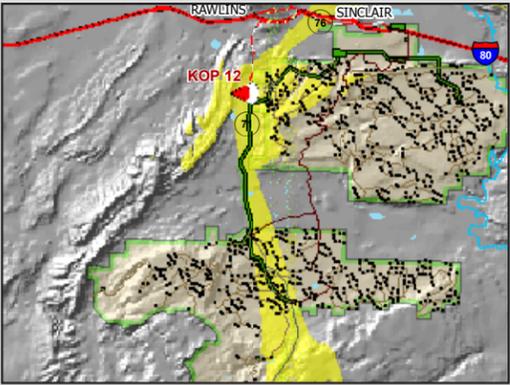
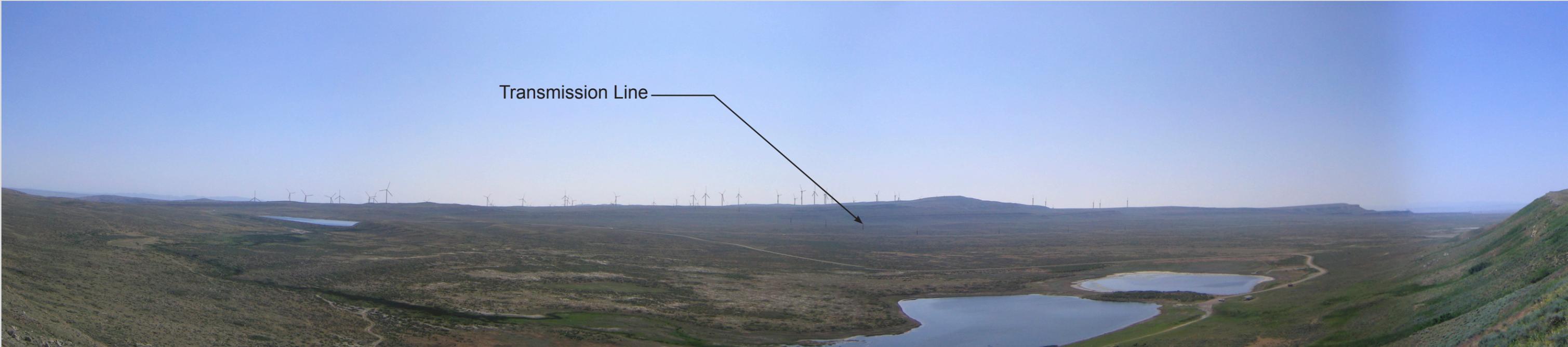


Photo Location Map

## Alternative 4



Transmission Line

# KOP 15: Seminole to Alcove Scenic Byway BLM Kiosk

## Existing Conditions

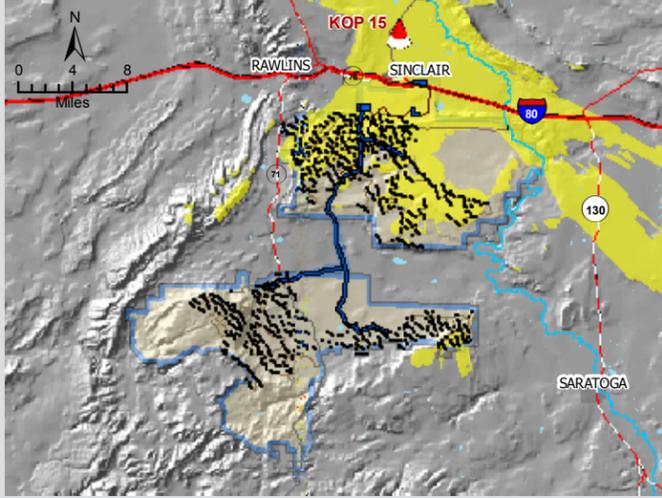


Photo Location Map

## Alternative 1R



# KOP 15: Seminole to Alcove Scenic Byway BLM Kiosk

## Existing Conditions

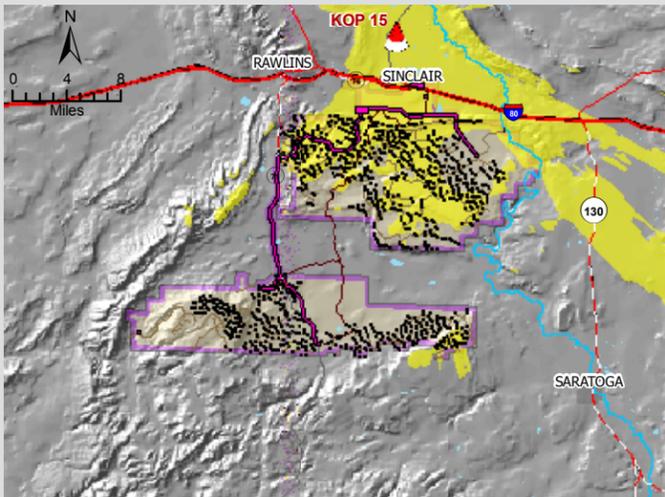


Photo Location Map

## Alternative 2



# KOP 15: Seminole to Alcove Scenic Byway BLM Kiosk

## Existing Conditions

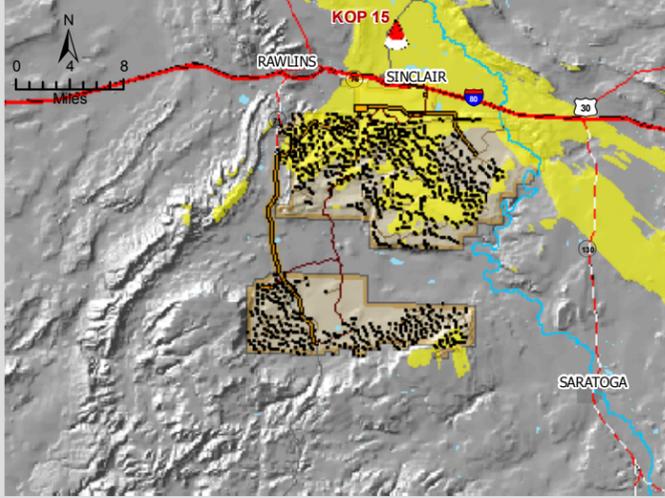


Photo Location Map

## Alternative 3



# KOP 15: Seminole to Alcove Scenic Byway BLM Kiosk

## Existing Conditions

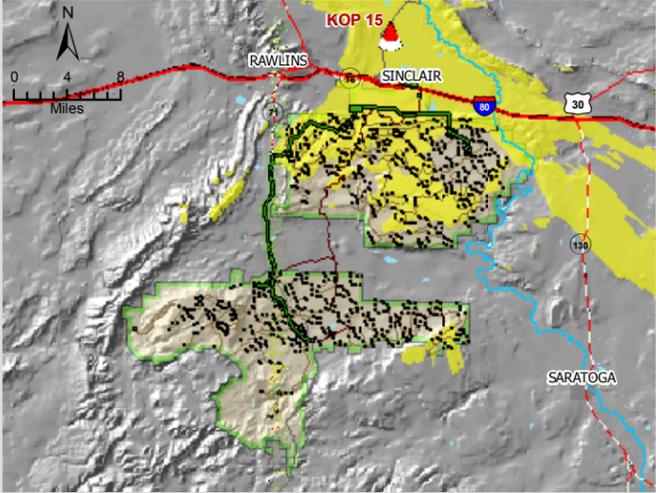


Photo Location Map

## Alternative 4



# KOP 17: County Road 345 at Savage Hills

## Existing Conditions



The high point along County Road 345, near the southwest base of the Savage Hills, looking to the southwest at a panoramic vista containing the Severson Flats.

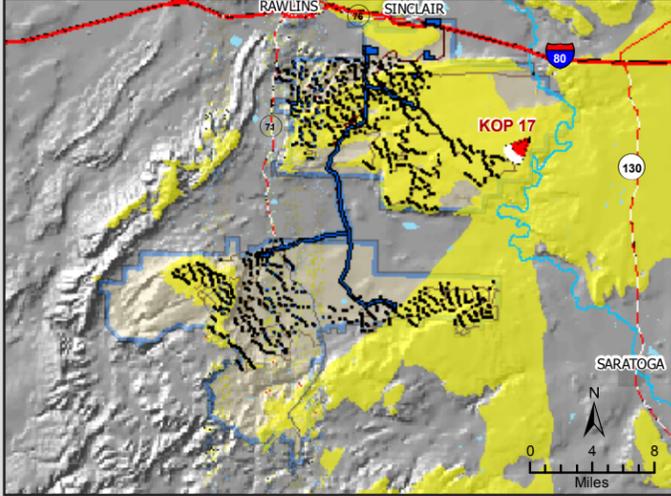


Photo Location Map

## Alternative 1R



# KOP 17: County Road 345 at Savage Hills

## Existing Conditions



The high point along County Road 345, near the southwest base of the Savage Hills, looking to the southwest at a panoramic vista containing the Severson Flats.

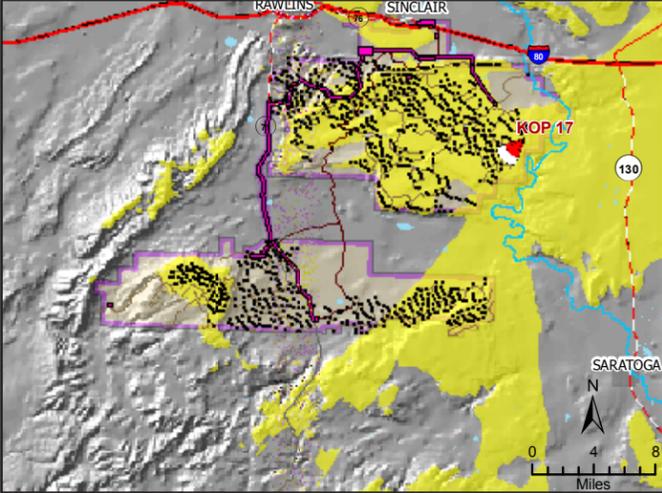


Photo Location Map

## Alternative 2



# KOP 17: County Road 345 at Savage Hills

## Existing Conditions



The high point along County Road 345, near the southwest base of the Savage Hills, looking to the southwest at a panoramic vista containing the Severson Flats.

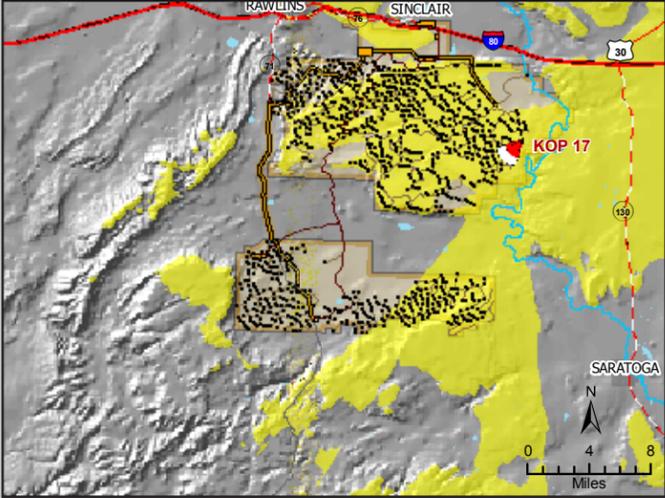


Photo Location Map

## Alternative 3



# KOP 17: County Road 345 at Savage Hills

## Existing Conditions



The high point along County Road 345, near the southwest base of the Savage Hills, looking to the southwest at a panoramic vista containing the Severson Flats.

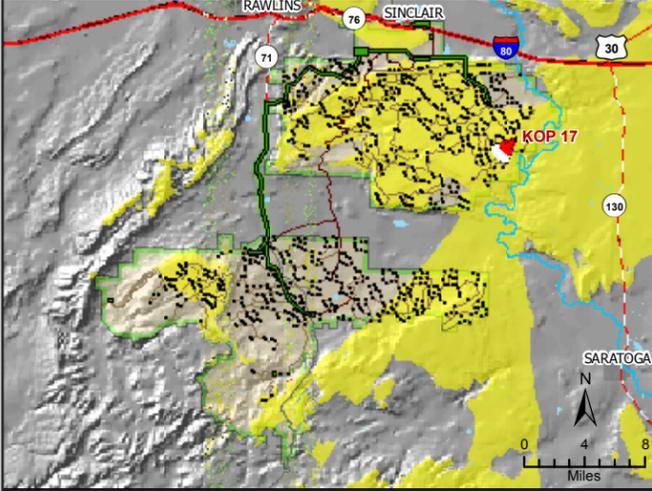


Photo Location Map

## Alternative 4



# KOP 19: North Platte River

## Existing Conditions



The KOP is at the Overland Trail Cemetery overlooking the Overland Trail crossing of the North Platte River. The view is towards the south-west, and shows ridgetops from Sage Creek to Miller Hill.

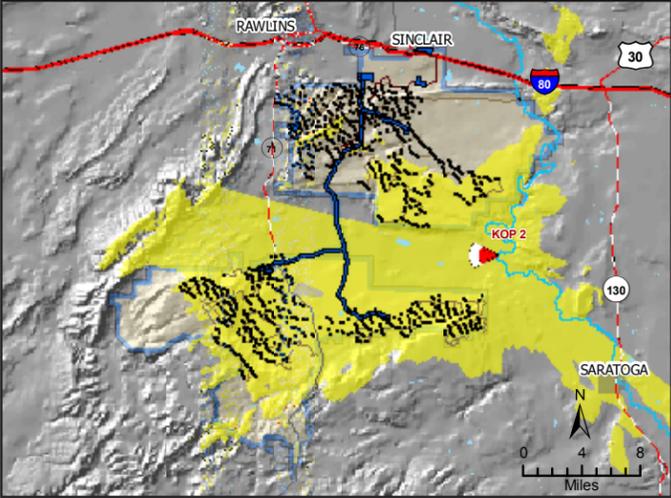


Photo Location Map

## Alternative 1



# KOP 19: North Platte River

## Existing Conditions



The KOP is at the Overland Trail Cemetery overlooking the Overland Trail crossing of the North Platte River. The view is towards the south-west, and shows ridgetops from Sage Creek to Miller Hill.

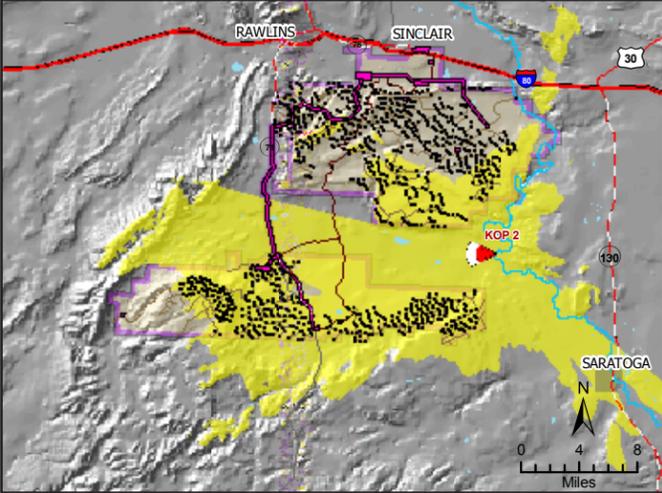


Photo Location Map

## Alternative 2



Existing Conditions



The KOP is at the Overland Trail Cemetery overlooking the Overland Trail crossing of the North Platte River. The view is towards the south-west, and shows ridgetops from Sage Creek to Miller Hill.

# KOP 19: North Platte River

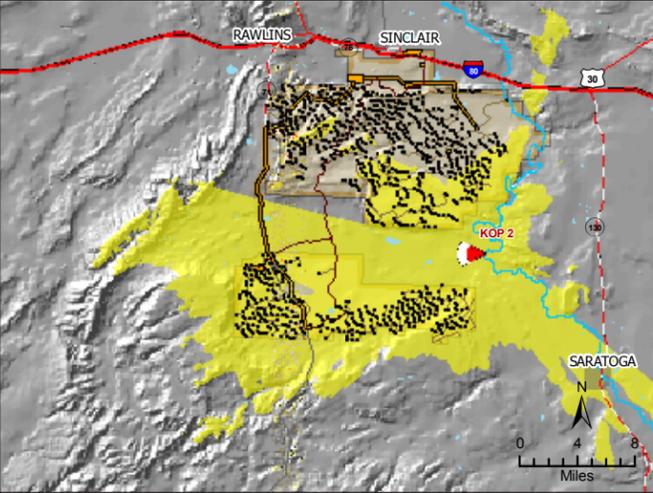


Photo Location Map

Alternative 3



Existing Conditions



The KOP is at the Overland Trail Cemetery overlooking the Overland Trail crossing of the North Platte River. The view is towards the south-west, and shows ridgetops from Sage Creek to Miller Hill.

# KOP 19: North Platte River

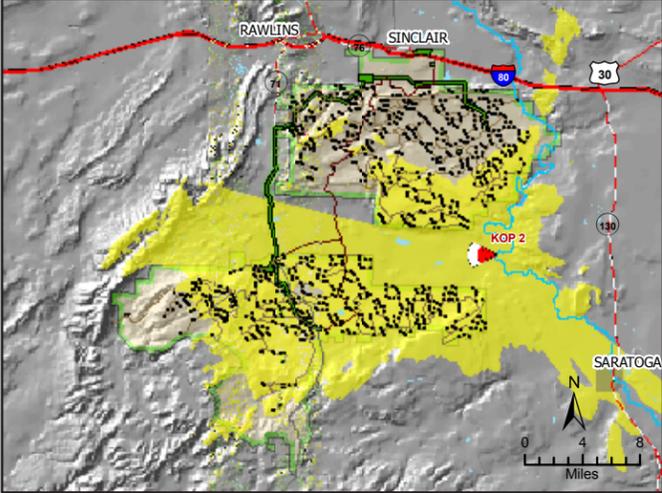


Photo Location Map

Alternative 4

