This appendix includes figures referenced in Chapter 3, Section 3.4, *Biological Resources*, of the Draft EIS. These figures are:

- Figure G-1. Wildfire Hazard Potential
- Figure G-2a. Sensitive Plant Species <u>– Barneby Ridge-Cress Suitable</u> Habitat
- Figure G-2b. Sensitive Plant Species Pariette Cactus and Uinta Basin Hookless Cactus Suitable Habitat
- Figure G-3. Mexican Spotted Owl Moderate Quality Habitat
- Figure G-4. Snowshoe Hare Seasonal Range
- Figure G-5. Bighorn Sheep Seasonal Range and Movement Corridors
- Figure G-6. Elk Seasonal Range and Movement Corridors
- Figure G-7. Moose Seasonal Range
- Figure G-8. Mule Deer Seasonal Range and Movement Corridors
- Figure G-9. Pronghorn Seasonal Range and Movement Corridors
- Figure G-10. Vegetation Communities

Figure G-1 through Figure G-9 consist of individual maps. <u>OEA has revised Figures G-1 to G-6, G-8, and G-9 in response to comments received on the Draft EIS and to incorporate updated data.</u>

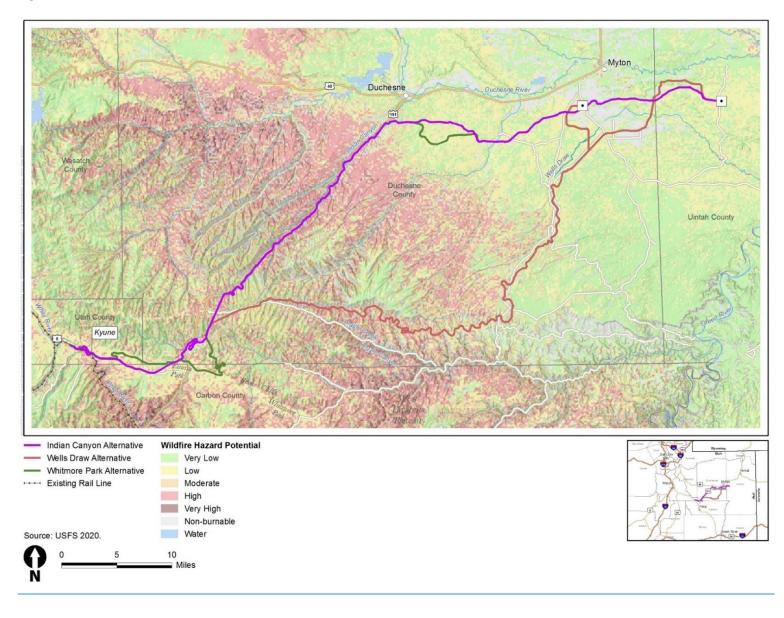
Figure G-10 is a mapbook consisting of one index map and nine detailed map sheets. Figure G-10 depicts the biological resources field survey study area and vegetation communities in and around the study area. This figure reproduces at a smaller scale the vegetation community maps included in the *Biological Resources Baseline Environment Technical Memorandum: Uinta Basin Railway* (Technical Memorandum) (Coalition 2020a).

Table G-1 provides a crosswalk between the nine sheets in Figure G-10 and the corresponding maps included in the Technical Memorandum Appendix B, Appendix C, and Appendix D.

	Biological Resources Baseline Environmental Technical Memorandum		
Figure G-10 Sheets	Indian Canyon Alternative (Appendix B)	Wells Draw Alternative (Appendix C)	Whitmore Park Alternative (Appendix D)
Sheet 1	1–35	1-36	1-45
Sheet 2	34–55	34-64	44-65
Sheet 3	51-71		61-81
Sheet 4	68-92		78-106
Sheet 5	86-116	179-182	96-130
Sheet 6	115–145	140-184	129-159
Sheet 7		63-112	
Sheet 8		109-127	
Sheet 9		126-142	

Table G-1. Crosswalk between Maps in Figure G-10 and Technical Memorandum

Figure G-1. Wildfire Hazard Potential



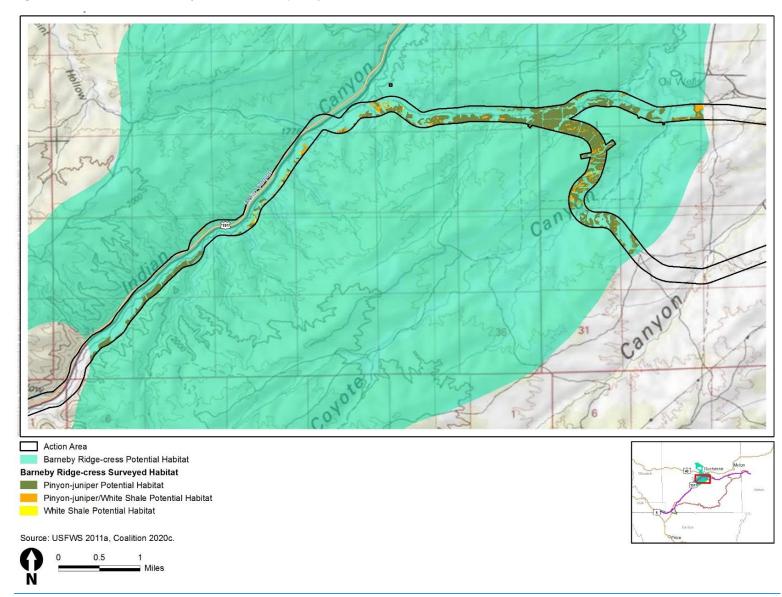


Figure G-2a. Sensitive Plant Species—Barneby Ridge-Cress Suitable Habitat

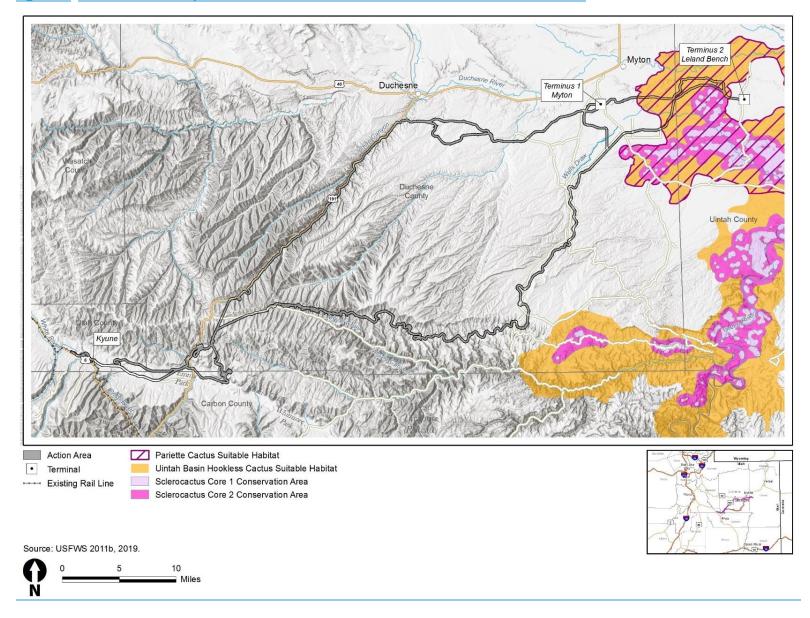


Figure G-2b. Sensitive Plant Species—Pariette Cactus and Uinta Basin Hookless Cactus Habitat

Figure G-3. Mexican Spotted Owl Moderate Quality Habitat

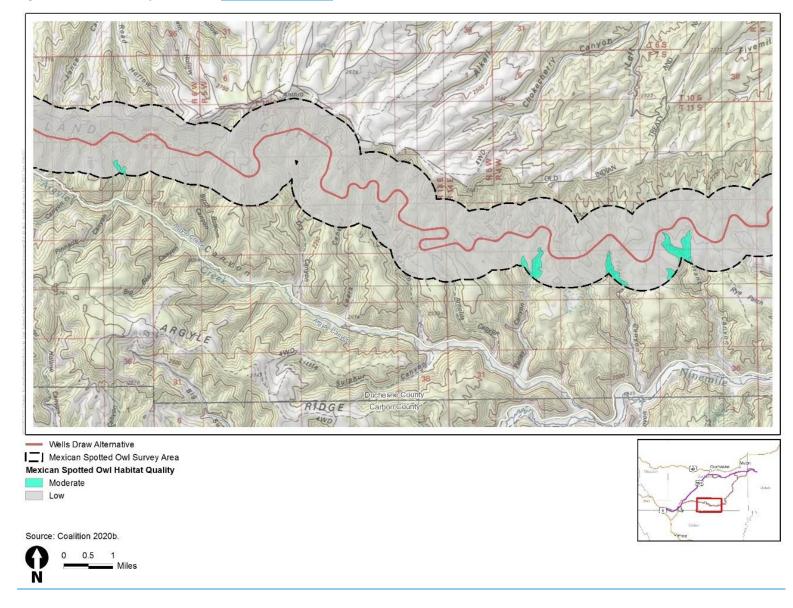


Figure G-4. Snowshoe Hare Seasonal Range

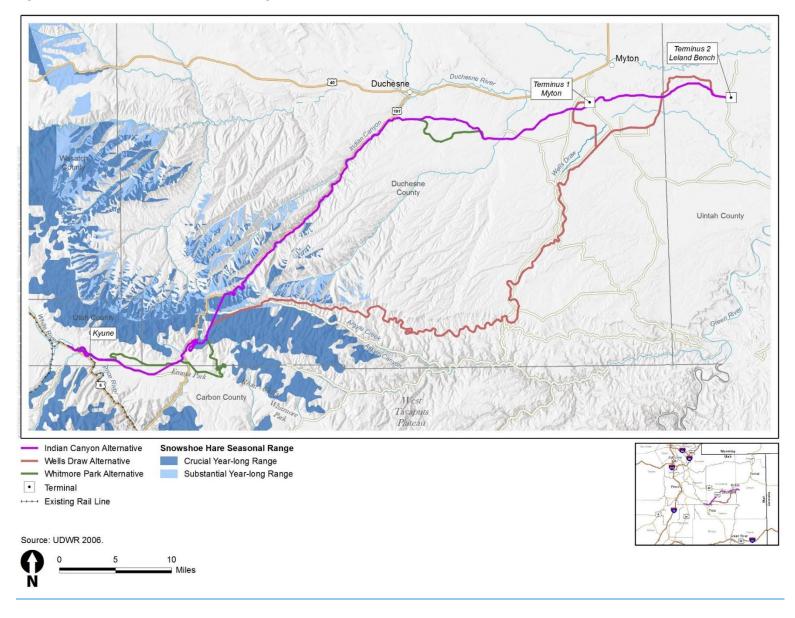


Figure G-5. Bighorn Sheep Seasonal Range and Movement Corridors

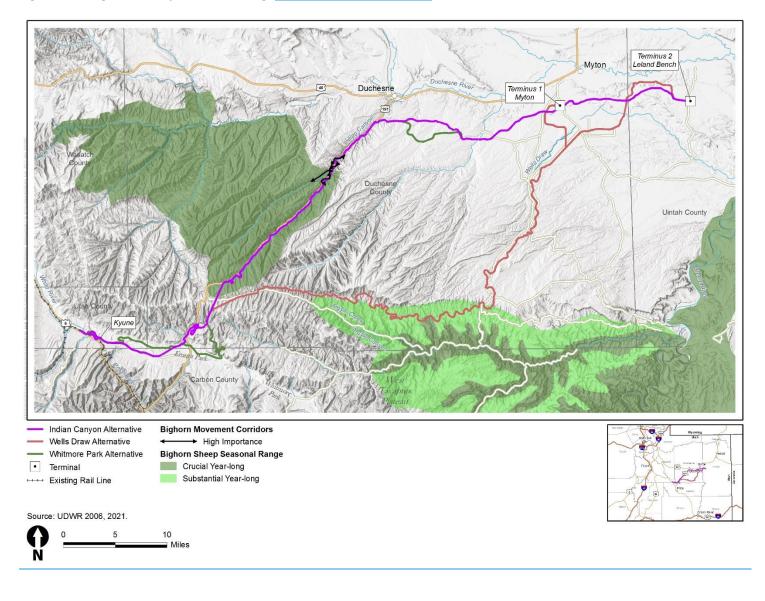


Figure G-6. Elk Seasonal Range and Movement Corridors

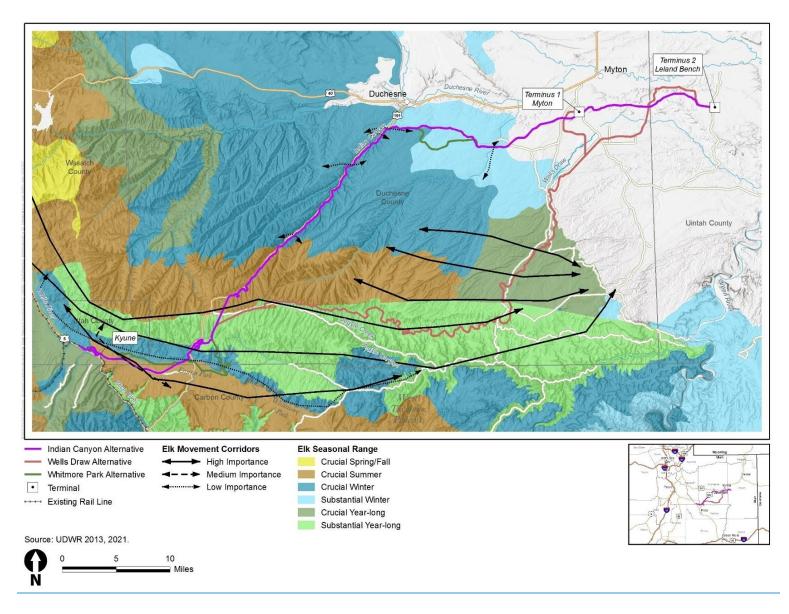


Figure G-7. Moose Seasonal Range

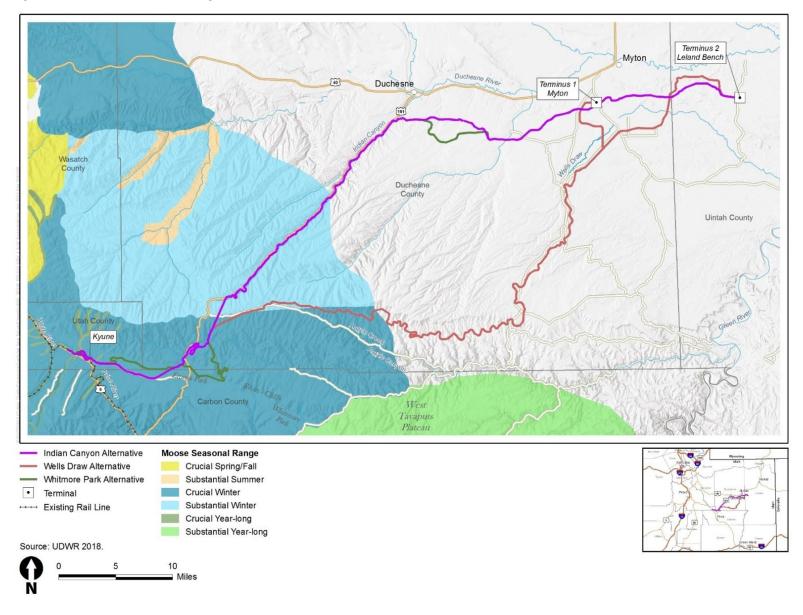


Figure G-8. Mule Deer Seasonal Range and Movement Corridors

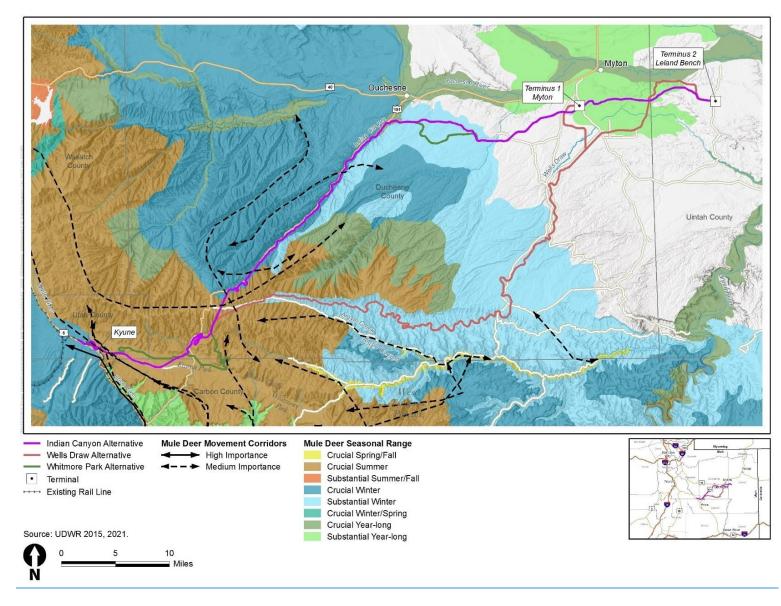
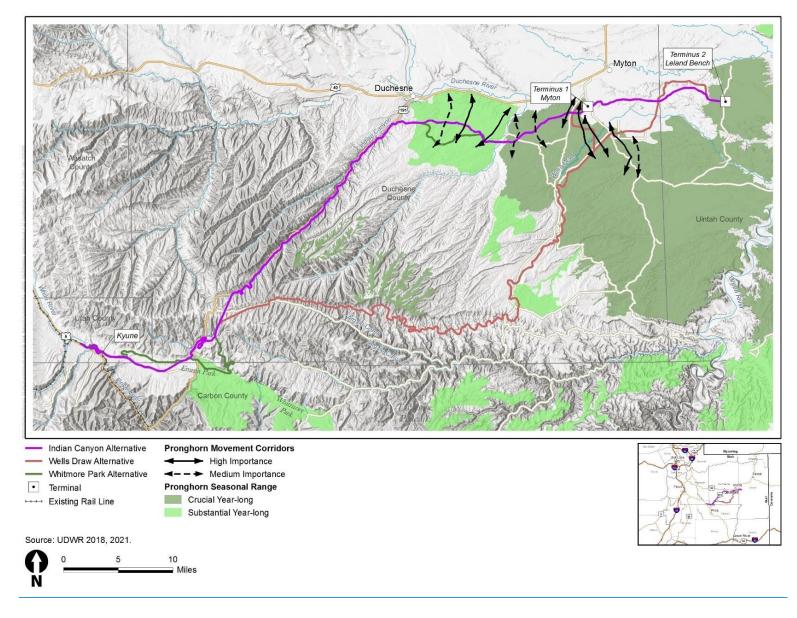
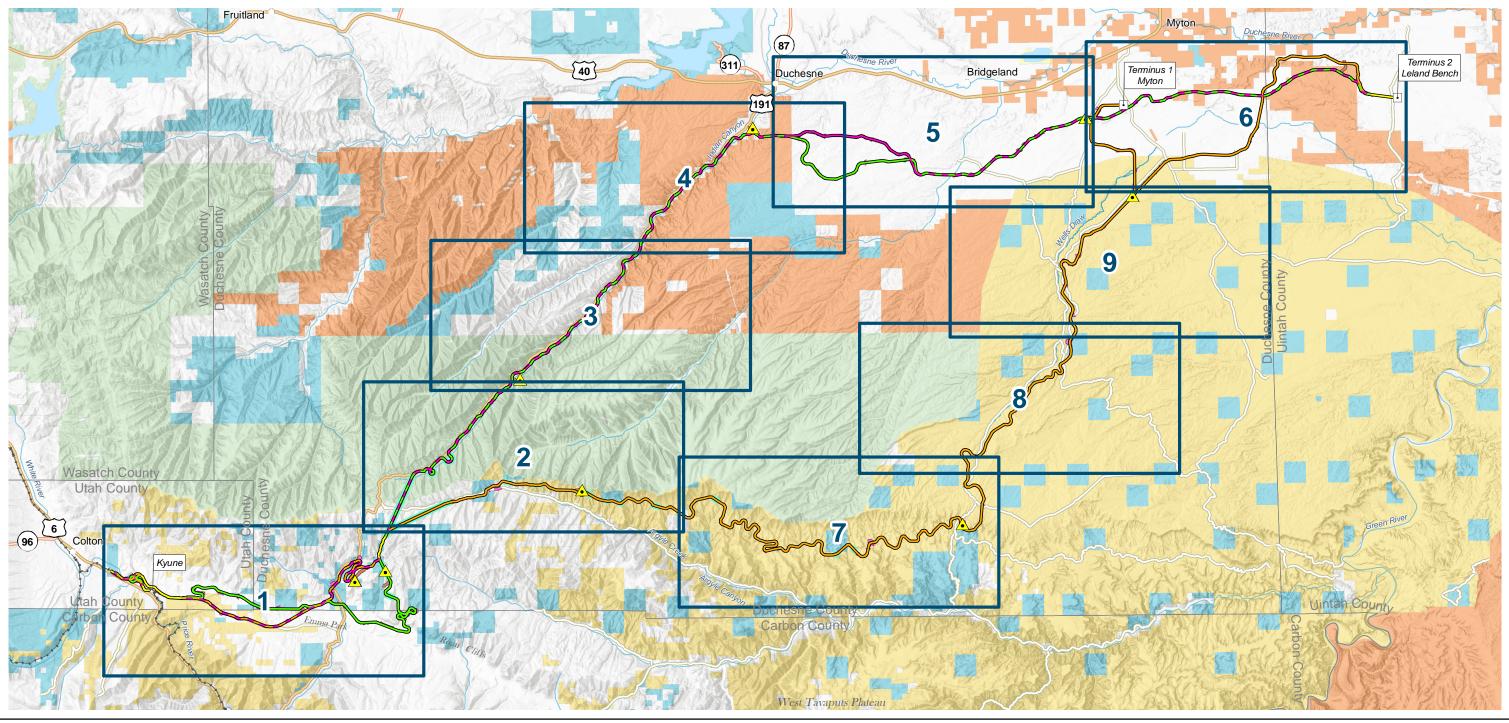


Figure G-9. Pronghorn Seasonal Range and Movement Corridors



References

- Seven County Infrastructure Coalition (Coalition). 2020a. *Biological Resources Baseline Environment Technical Memorandum: Uinta Basin Railway* (Technical Memorandum).
- Seven County Infrastructure Coalition (Coalition). 2020b. Draft Mexican Spotted Owl Habitat Evaluation Memorandum. July 31.
- Seven County Infrastructure Coalition (Coalition). 2020c. Draft Barneby Ridge-Cress Habitat Evaluation Memorandum. July 30.
- <u>U.S. Fish and Wildlife Service (USFWS). 2011a. Lepidium barnebyanum (Barneby ridge-cress), 5-Year Review: Summary and Evaluation. Utah Field Office Ecological Services. July. Available: https://ecos.fws.gov/docs/five_year_review/doc3779.pdf.Accessed: August 14, 2020.</u>
- U.S. Fish and Wildlife Service (USFWS). 2011b. Sclerocactus Core 1 and Core 2 conservation area GIS data.
- U.S. Fish and Wildlife Service (USFWS). 2019. Pariette Cactus (Sclerocactus brevispinus) and Uinta Basin Hookless Cactus (Sclerocactus wetlandicus) Suitable habitat GIS data.
- U.S. Forest Service. 2020. Wildfire Hazard Potential for the United States, version 2020 (270m). 3rd <u>Edition. Fort Collins, CO: Forest Service Research Data Archive. Available:</u> <u>https://www.firelab.org/project/wildfire-hazard-potential. Accessed: April 2, 2021.</u>
- <u>Utah Division of Wildlife Resources (UDWR). 2006. UDWR Mammal Habitat Coverages GIS –</u> <u>Snowshoe Hare Habitat.</u>
- <u>Utah Division of Wildlife Resources (UDWR). 2013. Elk Habitat shapefile. April 8, 2013. Available:</u> <u>https://dwrcdc.nr.utah.gov/ucdc/DownloadGIS/disclaim.htm.</u>
- <u>Utah Division of Wildlife Resources (UDWR). 2015. Utah Statewide Elk Management Plan. Available:</u> <u>https://wildlife.utah.gov/pdf/bg/elk plan.pdf. Accessed: April 9, 2021.</u>
- <u>Utah Division of Wildlife Resources (UDWR). 2018. Utah Bighorn Sheep Statewide Management</u> <u>Plan. Available: https://wildlife.utah.gov/pdf/bg/bighorn-plan.pdf. Accessed: April 9, 2021.</u>
- <u>Utah Division of Wildlife Resources (UDWR). 2021. Big Game Movement Corridor GIS data.</u> <u>Developed by UDWR for the Surface Transportation Board's (STB) Office of Environmental</u> <u>Analysis (OEA) for the Uinta Basin Railway Project Environmental Impact Statement. May 10.</u>

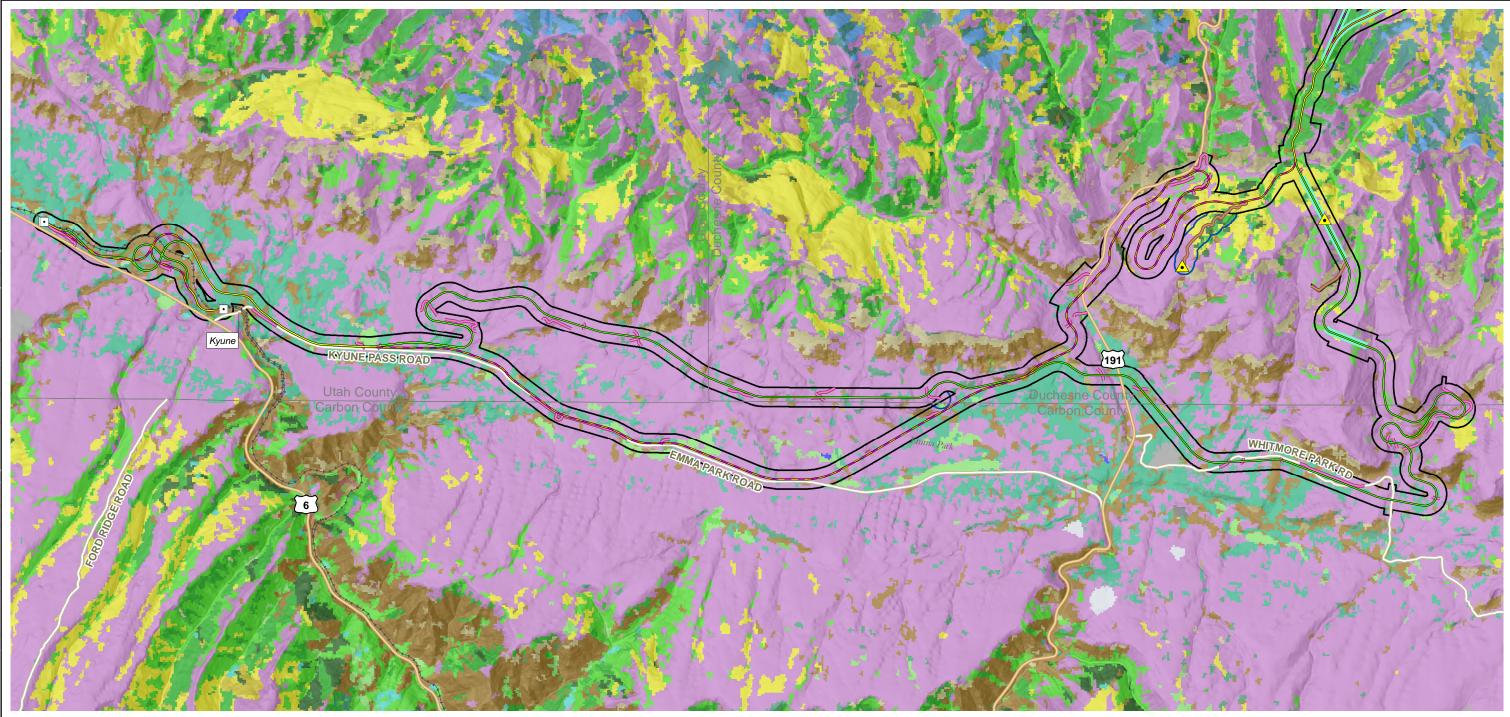


- All Alternatives
- Indian Canyon Alternative
- Wells Draw Alternative
- Whitmore Park Alternative
- ----- Indian Canyon and Wells Draw
- ---- Indian Canyon and Whitmore Park
- Tunnel
- 1 2 3 4 5 1:280,000 Ν Date: 6/2/2020

- **Communication Tower**
- Terminal

- ----- Road Relocation
- Access Road
- Interstate Hwy
- U.S. Hwy
- ----- State Route
- County Road Existing Rail Line
- Land Status
 - Bureau of Land Management
- Bureau of Reclamation
- Private Land
- State Land
- Tribal Trust Land
- U.S. Forest Service

Figure 10. Vegetation Communities





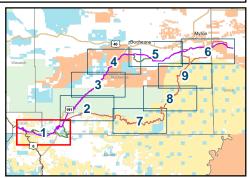


Figure 10. Vegetation Communities Sheet 1 of 9



 A 11	
AIL	Alternatives

- Indian Canyon Alternative
- Wells Draw Alternative
- Whitmore Park Alternative
- ----- Indian Canyon and Wells Draw
- Indian Canyon and Whitmore Park
- Terminal
- Tunnel

Ν

Source: USGS 2004.

1:60,000

- - Access Road Existing Rail Line

2 Miles

- Survey Study Area
- Supplemental Survey Study Area

Communication Tower

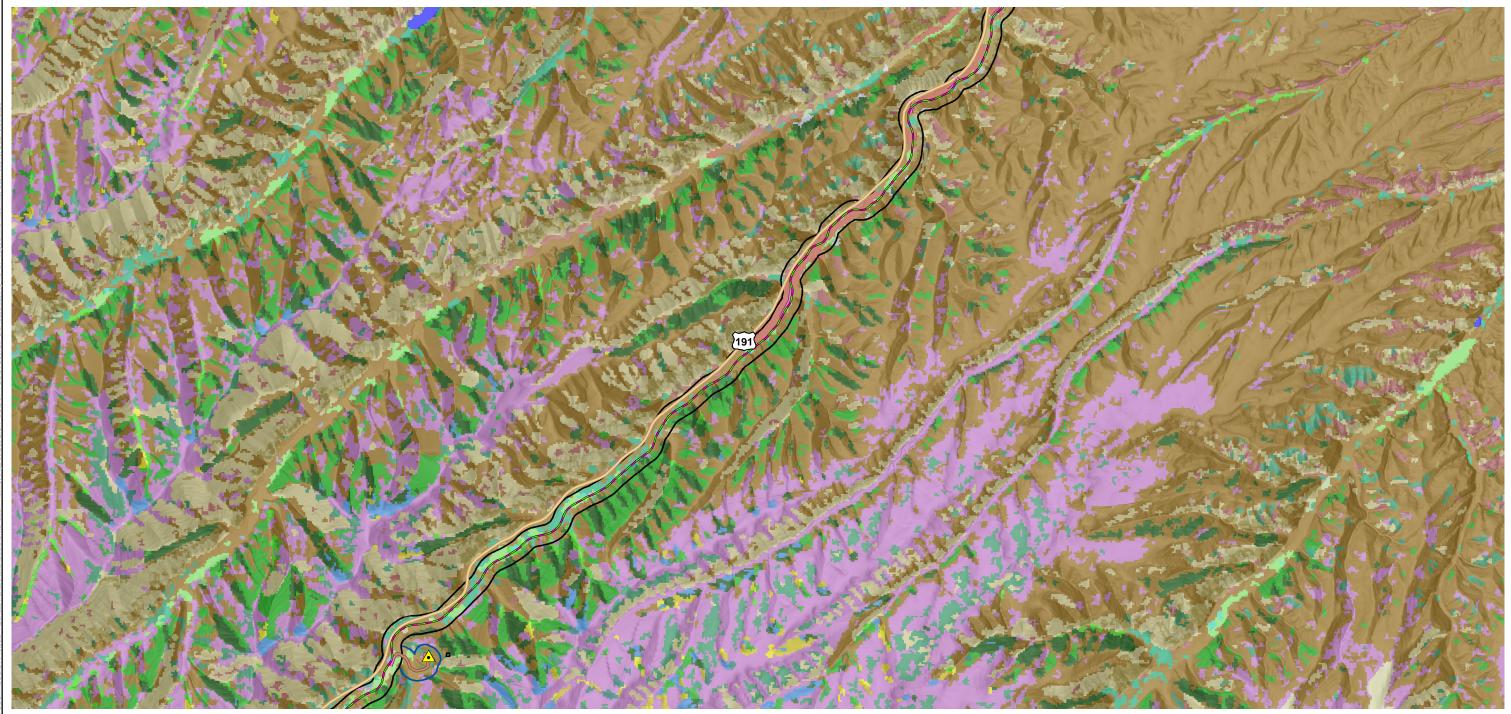
Road Relocation

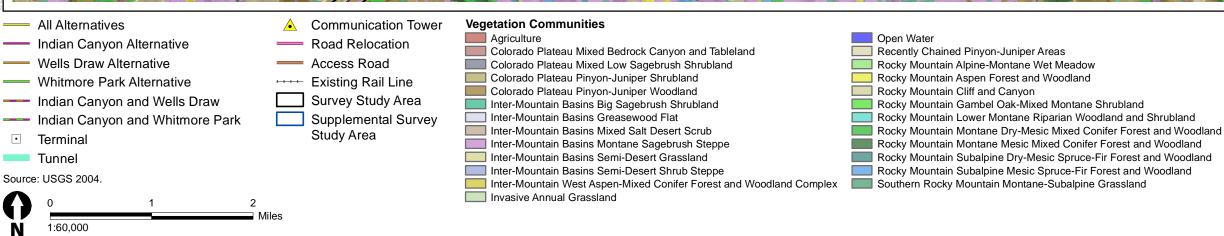
- **Vegetation Communities**
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Mixed Low Sagebrush Shrubland Colorado Plateau Pinyon-Juniper Shrubland
- Colorado Plateau Pinyon-Juniper Woodland
- Inter-Mountain Basins Big Sagebrush Shrubland
- Inter-Mountain Basins Mixed Salt Desert Scrub
- Inter-Mountain Basins Montane Sagebrush Steppe
- Inter-Mountain Basins Semi-Desert Grassland
- Inter-Mountain Basins Semi-Desert Shrub Steppe
- Inter-Mountain West Aspen-Mixed Conifer Forest and Woodland Complex
- Invasive Annual Grassland

- Recently Chained Pinyon-Juniper Areas
- Rocky Mountain Alpine-Montane Wet Meadow
- Rocky Mountain Aspen Forest and Woodland Rocky Mountain Cliff and Canyon
- Rocky Mountain Gambel Oak-Mixed Montane Shrubland
 Rocky Mountain Montane Dry-Mesic Mixed Conifer Forest and Woodland
 Rocky Mountain Montane Mesic Mixed Conifer Forest and Woodland
- Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland
- Rocky Mountain Subalpine Mesic Spruce-Fir Forest and Woodland
- Southern Rocky Mountain Montane-Subalpine Grassland



Figure 10. Vegetation Communities Sheet 2 of 9





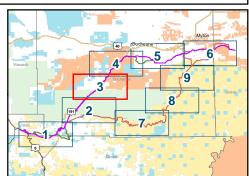
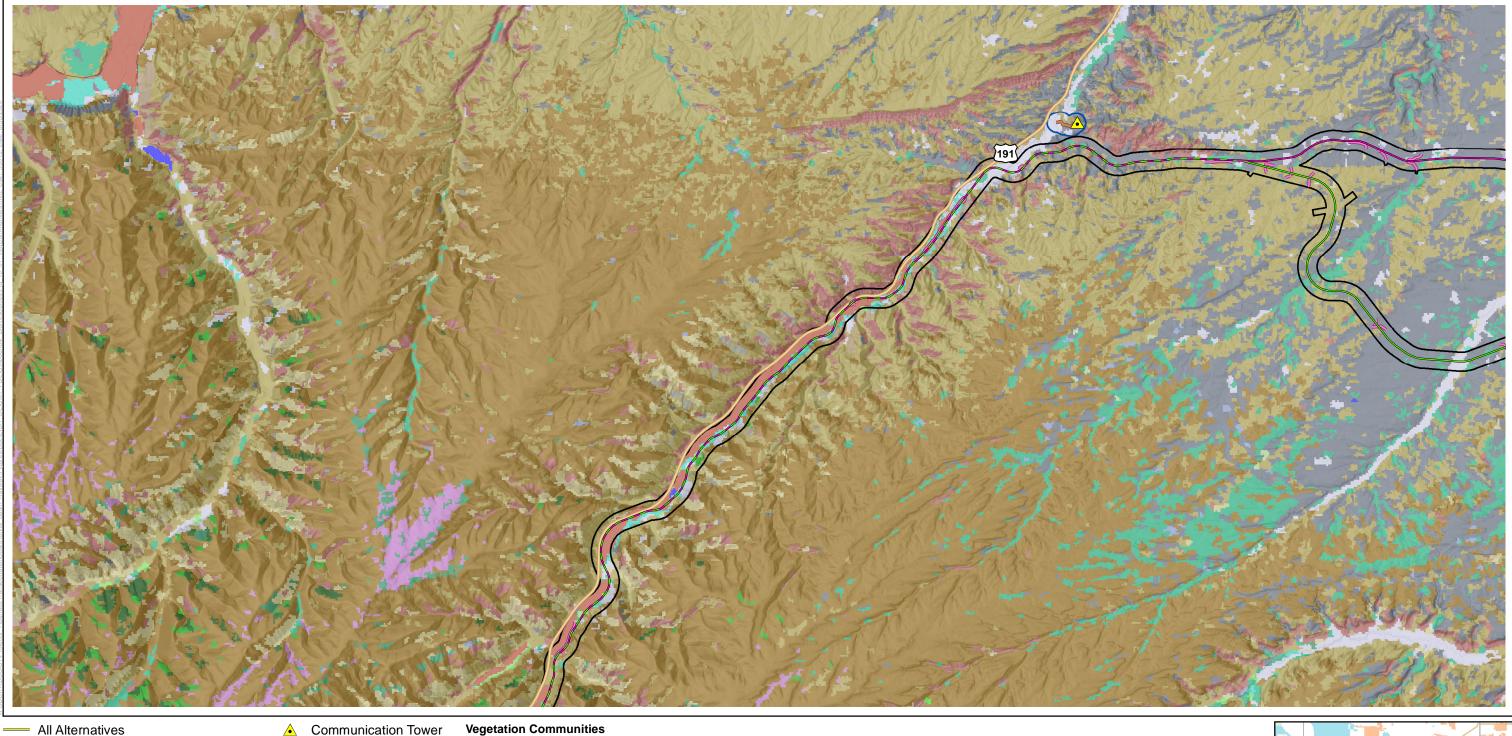


Figure 10. Vegetation Communities Sheet 3 of 9



- Wells Draw Alternative
- Whitmore Park Alternative

- Terminal

- All Alternatives
- Indian Canyon Alternative

- ----- Indian Canyon and Wells Draw
- Indian Canyon and Whitmore Park
- Tunnel
- Source: USGS 2004.

1:60,000

2 Miles

- ----- Road Relocation
- Access Road
- Existing Rail Line
- Survey Study Area
- Supplemental Survey
 - Study Area

Vegetation Communities

- Agriculture Colorado Plateau Mixed Bedrock Canyon and Tableland Colorado Plateau Mixed Low Sagebrush Shrubland Colorado Plateau Pinyon-Juniper Shrubland Colorado Plateau Pinyon-Juniper Woodland Developed, Medium - High Intensity Inter-Mountain Basins Big Sagebrush Shrubland Inter-Mountain Basins Greasewood Flat Inter-Mountain Basins Mat Saltbush Shrubland Inter-Mountain Basins Mixed Salt Desert Scrub
- Inter-Mountain Basins Montane Sagebrush Steppe Inter-Mountain Basins Semi-Desert Grassland

- Inter-Mountain Basins Semi-Desert Shrub Steppe
- Invasive Annual Grassland
- Invasive Southwest Riparian Woodland and Shrubland
- Open Water
- Rocky Mountain Alpine-Montane Wet Meadow
- Rocky Mountain Cliff and Canyon Rocky Mountain Gambel Oak-Mixed Montane Shrubland
- Rocky Mountain Lower Montane Riparian Woodland and Shrubland
- Rocky Mountain Montane Dry-Mesic Mixed Conifer Forest and Woodland
- Rocky Mountain Montane Mesic Mixed Conifer Forest and Woodland
- Southern Rocky Mountain Montane-Subalpine Grassland

Ν Date: 6/30/2020

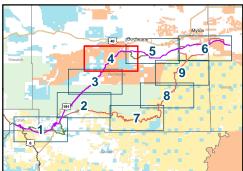
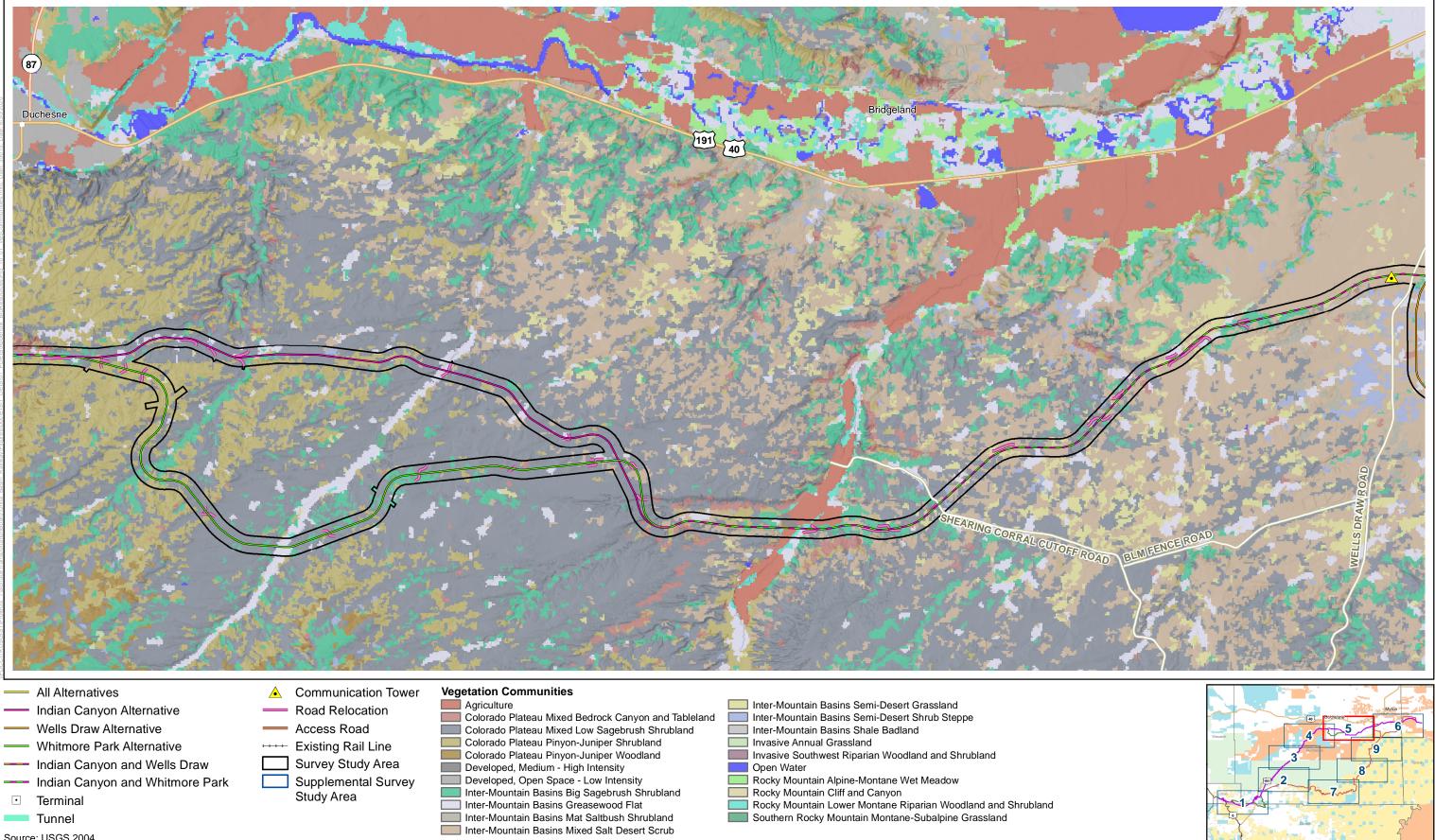


Figure 10. Vegetation Communities Sheet 4 of 9



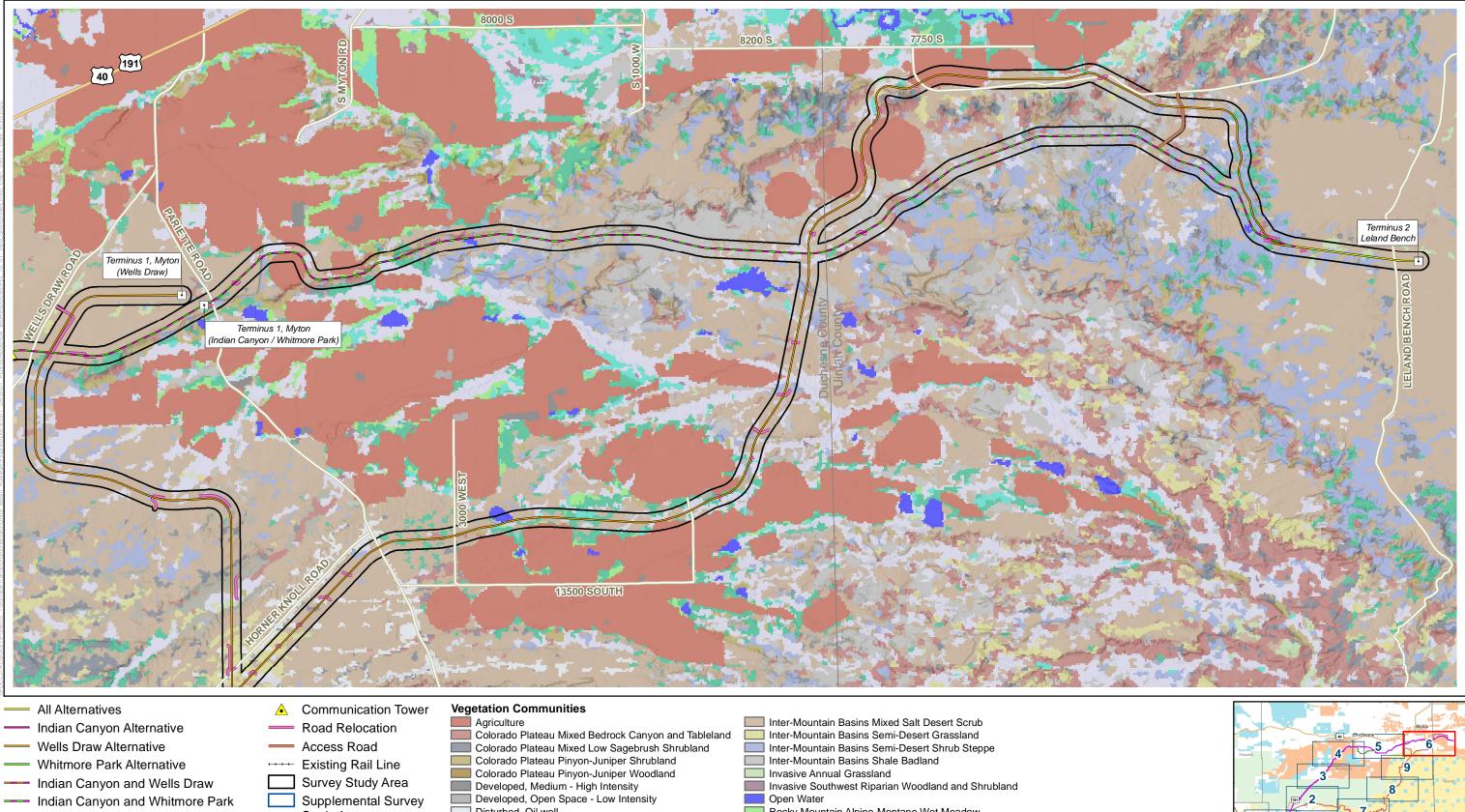
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- Source: USGS 2004.

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2 Miles

Figure 10. Vegetation Communities Sheet 5 of 9



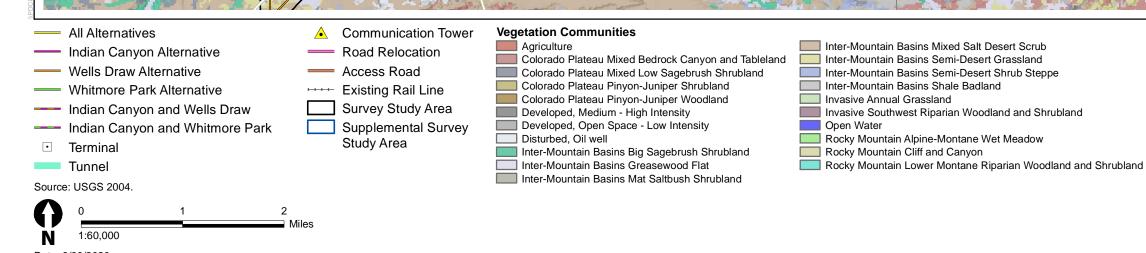
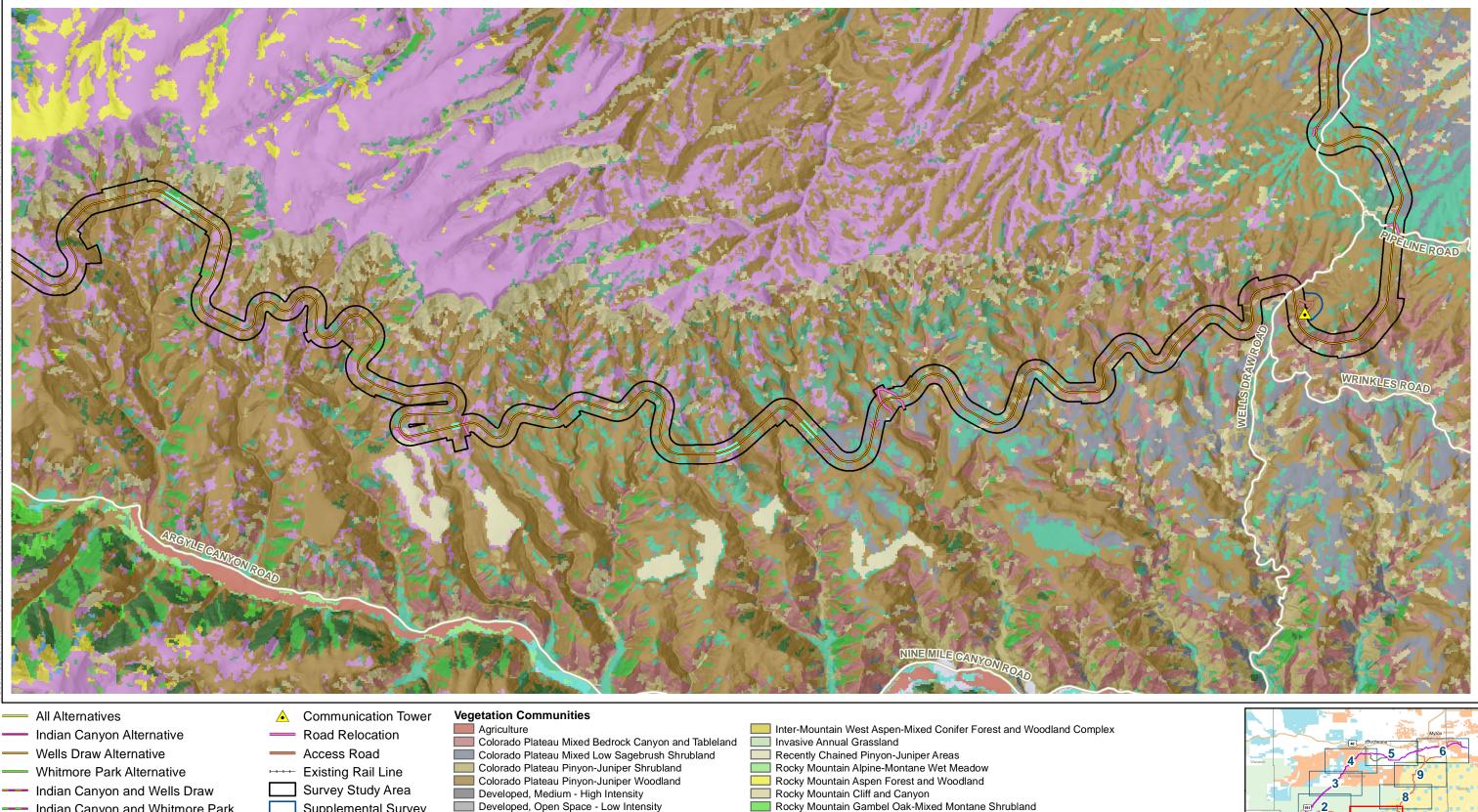


Figure 10. Vegetation Communities Sheet 6 of 9



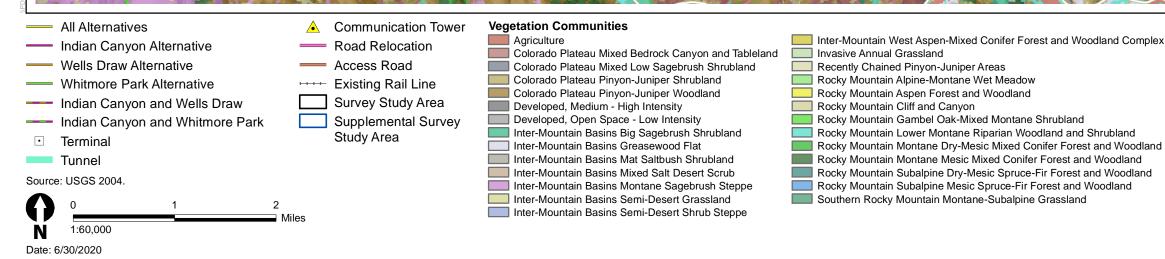
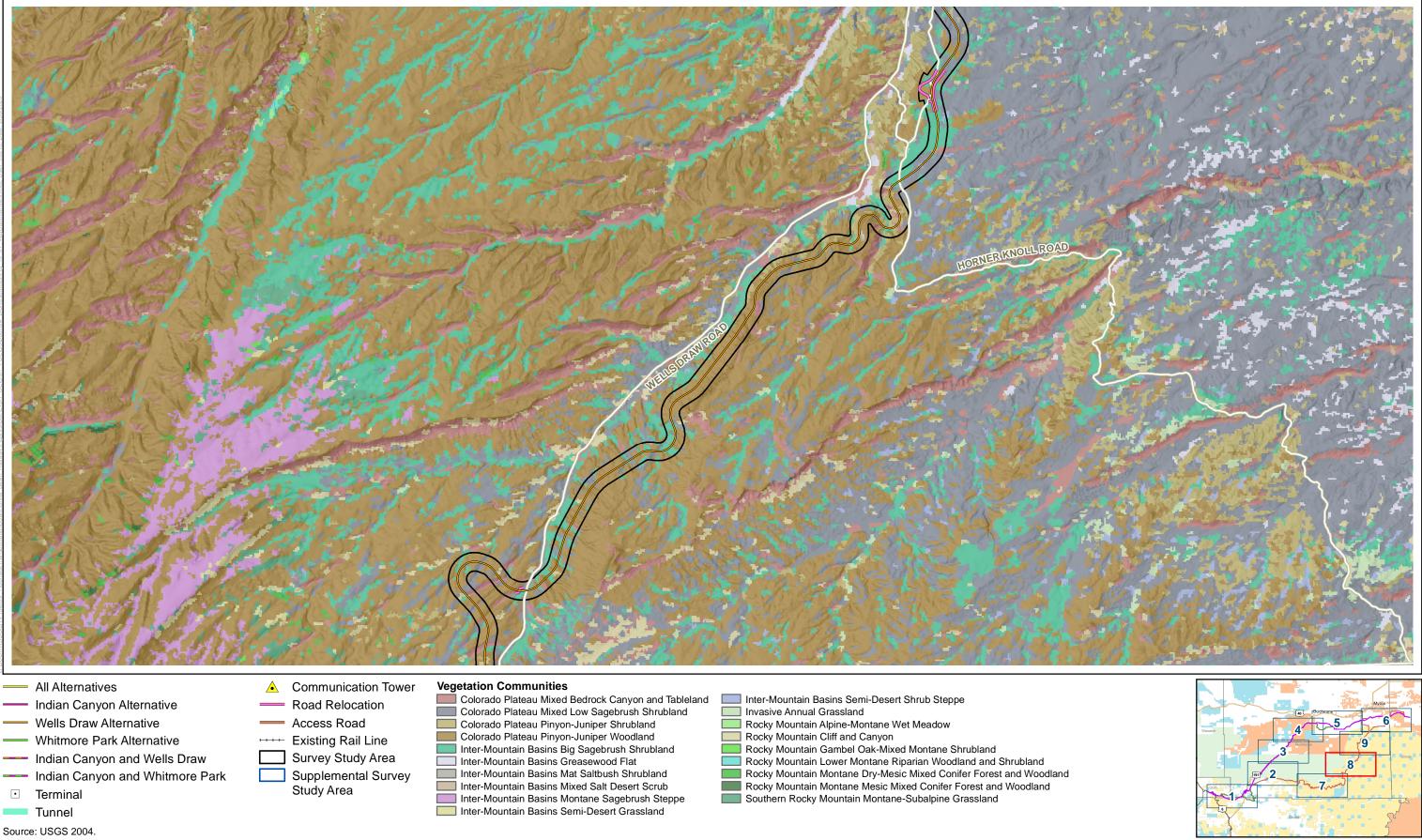


Figure 10. Vegetation Communities Sheet 7 of 9

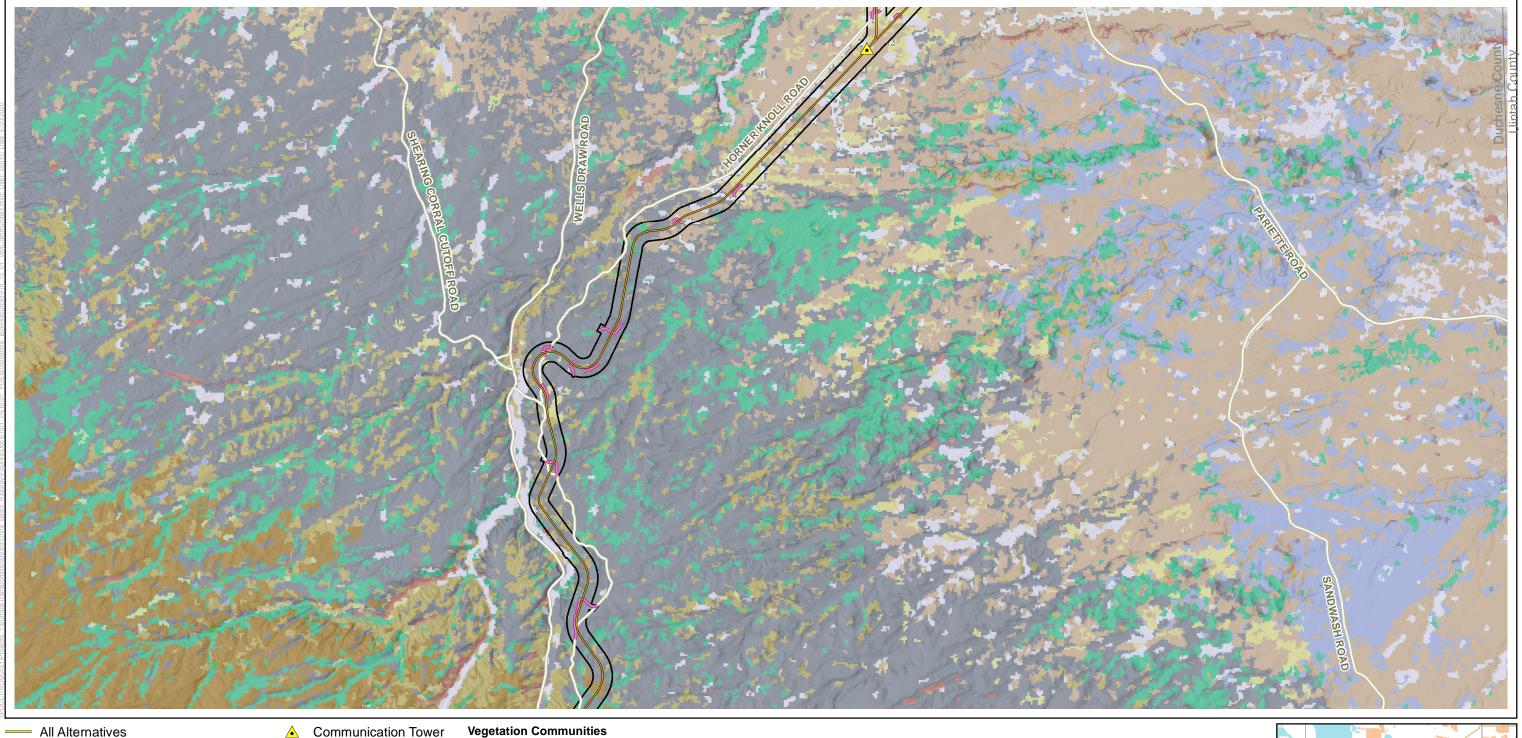


1:60,000

2 Miles

Ν Date: 6/30/2020

Figure 10. Vegetation Communities Sheet 8 of 9



- Indian Canyon Alternative
- Wells Draw Alternative
- Whitmore Park Alternative
- ----- Indian Canyon and Wells Draw
- Indian Canyon and Whitmore Park
- Terminal
- Tunnel

Ν

1:60,000

Source: USGS 2004.

2 Miles

- _____
- Road Relocation
- Access Road
- Survey Study Area
- Supplemental Survey
 - Study Area

- Existing Rail Line
- Agriculture Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Mixed Low Sagebrush Shrubland Colorado Plateau Pinyon-Juniper Shrubland
- Colorado Plateau Pinyon-Juniper Woodland
- Disturbed, Oil well
- Inter-Mountain Basins Big Sagebrush Shrubland Inter-Mountain Basins Greasewood Flat Inter-Mountain Basins Mat Saltbush Shrubland
- Inter-Mountain Basins Mixed Salt Desert Scrub
- Inter-Mountain Basins Semi-Desert Grassland
- Inter-Mountain Basins Semi-Desert Shrub Steppe
- Inter-Mountain Basins Shale Badland
- Invasive Annual Grassland
- Rocky Mountain Cliff and Canyon Rocky Mountain Montane Dry-Mesic Mixed Conifer Forest and Woodland
- Southern Rocky Mountain Montane-Subalpine Grassland

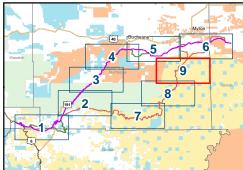


Figure 10. Vegetation Communities Sheet 9 of 9