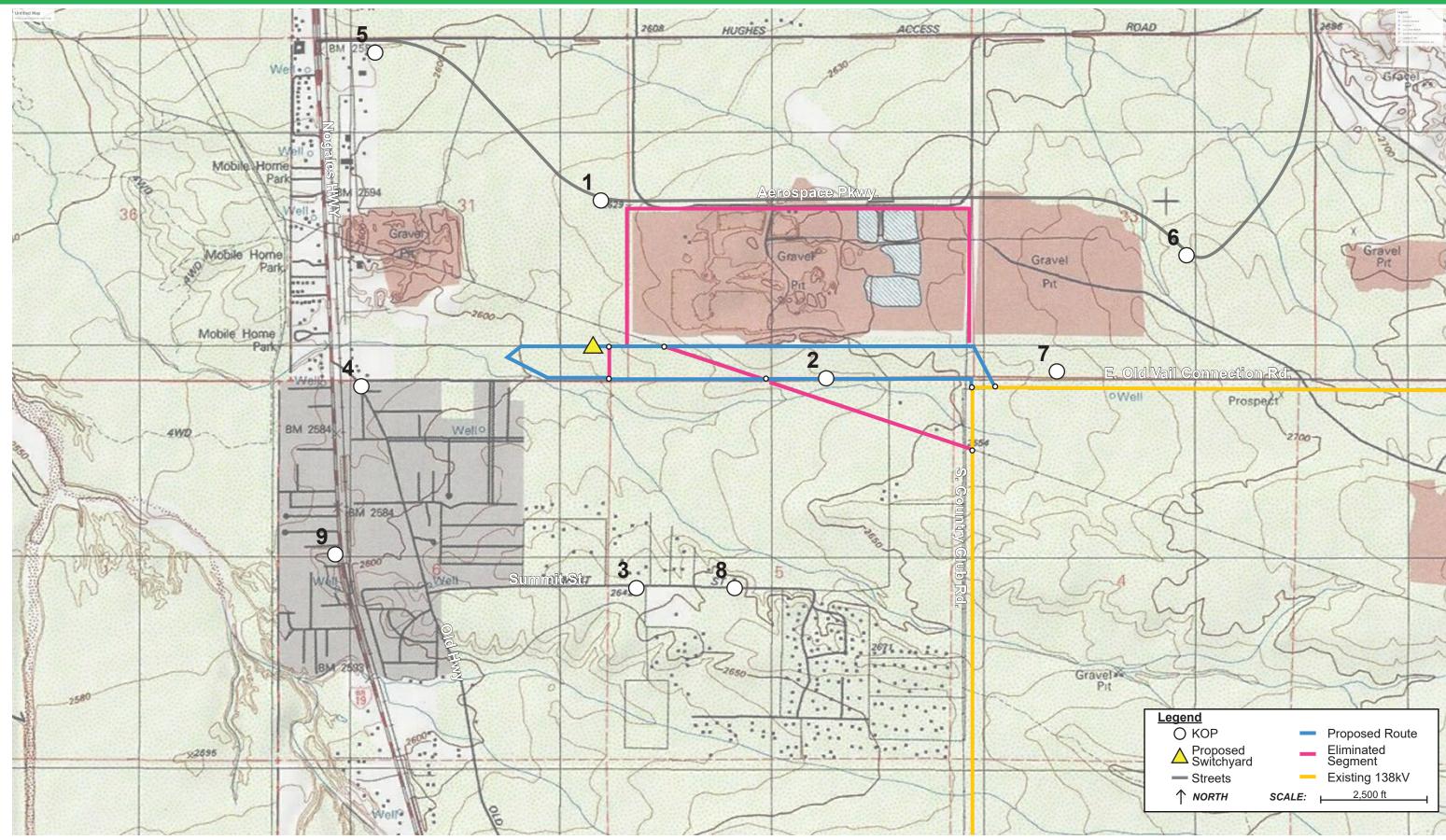


### Aerospace Research Campus 138 kV Transmission Line Project Visual Resource Exhibit

**Visual Simulations** 

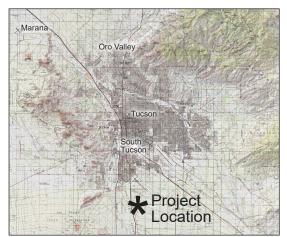
Prepared By:
Jeremy Palmer | Sole Proprietor

September 13th, 2023

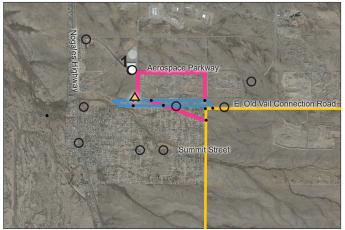


Key Observation Points - (KOPs)

### Key Observation Point (KOP) # 1



Vicinity Map



Legend

KOP 0

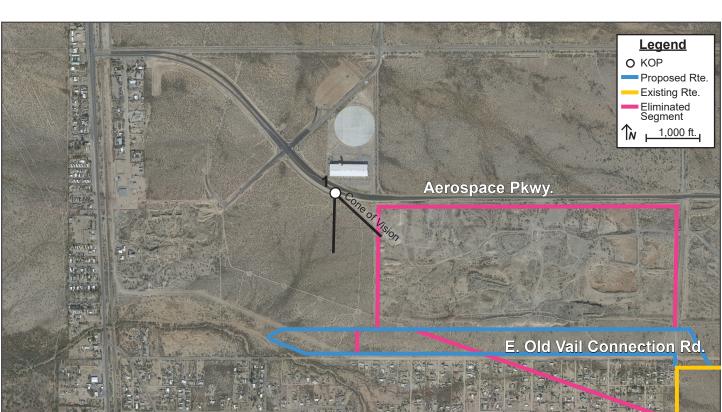
Proposed Substation

Proposed Switchyard

Existing Transmission

Proposed Route Eliminated Segment

Project Map Enlargement



### Notes:

### **Camera Information**

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm Lens: Canon RF 24-105mm f/4-7.1 IS STM Focal Length: 50mm | F-Stop: f/9 | ISO:100 Dimensions in pixel: 6240 x 4160

- Representative View for: residents, commuters
- Location: 1805 E Aerospace Pkwy Latitude: 32.083397° N; Longitude: 110.944917° W
- View Point Elevation at Eye Level: 2,628 ft.
- Looking: southeast
- Poles Visible: pole structures, switchyard Image File Name: IMG\_2403.JPG

- Photo Taken: August 5, 2023, 10:35 AM The image is based on a single photo and represents approximately 39.5 degree horizontal field of view.
- This view is approximately 2,253 feet northwest of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Back to Map

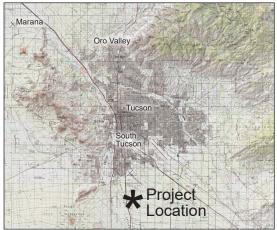


**Existing Condition** 



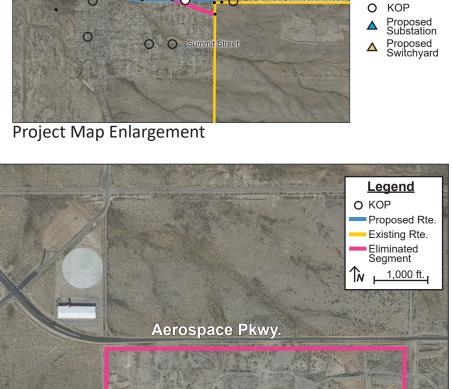
Simulated Condition

### Key Observation Point (KOP) # 2



Vicinity Map





Legend

Existing Transmission

Proposed Route Eliminated Segment

### Notes:

### **Camera Information**

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm Lens: Canon RF 24-105mm f/4-7.1 IS STM Focal Length: 35mm | F-Stop: f/10 | ISO:100 Dimensions in pixel: 6240 x 4160

E. Old Vail Connection Rd

- Representative View for: residents
- Location: 2680 E Old Vail Rd Latitude: 32.075874° N; Longitude: 110.933893° W
- View Point Elevation at Eye Level: 2,642 ft.
- Looking: west
- Poles Visible: Pole Structures, Switchyard Image File Name: IMG\_2574.JPG

- Photo Taken: August 5, 2023, 11:07 AM
  The image is based on a single photo and represents approximately 54 degree horizontal field of view.
- This view is approximately 690 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

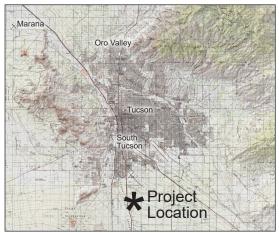


**Existing Condition** 

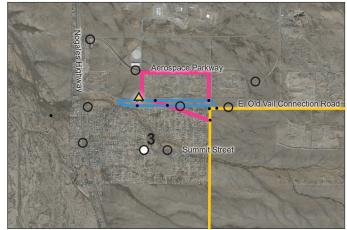


Simulated Condition

### Key Observation Point (KOP) # 3

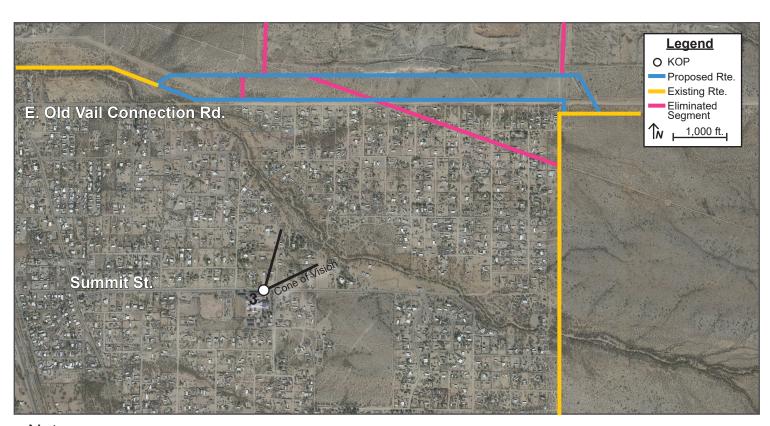


Vicinity Map



Project Map Enlargement





#### Notes:

### **Camera Information**

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm Lens: Canon RF 24-105mm f/4-7.1 IS STM Focal Length: 35mm | F-Stop: f/10 | ISO:100 Dimensions in pixel: 6240 x 4160

- Representative View for: residents, and school visitors
- Location: 1961 E Summit St/ Summit View Elementary Latitude: 32.066979° N; Longitude: 110.943138° W
- View Point Elevation at Eye Level: 2,646 ft.
- Looking: northeast
- Poles Visible: Pole Structures
- Image File Name: IMG 2630.JPG

- Photo Taken: August 5, 2023, 11:26 AM The image is based on a single photo and represents approximately 54 degree horizontal field of view.
- This view is approximately 4,030 feet southwest of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.



**Existing Condition** 



### Key Observation Point (KOP) # 4



Vicinity Map



Legend

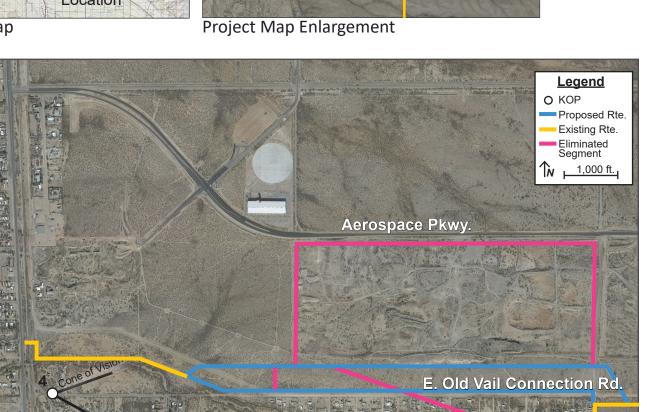
KOP 0

Proposed Substation

Proposed Switchyard

Existing Transmission

Proposed Route Eliminated Segment



#### Notes:

### **Camera Information**

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm Lens: Canon RF 24-105mm f/4-7.1 IS STM Focal Length: 50mm | F-Stop: f/10 | ISO:100 Dimensions in pixel: 6240 x 4160

- Representative View for: residents
- Location: 1101 E Summit St Latitude: 32.075736° N; Longitude: 110.956981° W
- View Point Elevation at Eye Level: 2,587 ft.
- Looking: east
- Poles Visible: Pole Structures
- Image File Name: IMG 2524.JPG

- Photo Taken: August 5, 2023, 10:58 AM The image is based on a single photo and represents approximately 39.5 degree horizontal field of view.
- This view is approximately 2,388 feet west of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

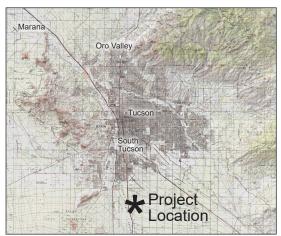


**Existing Condition** 



Simulated Condition

### Key Observation Point (KOP) # 5



Vicinity Map



Project Map Enlargement



# **Legend** O KOP Proposed Rte. Existing Rte. Eliminated Segment 1,000 ft. Aerospace Pkwy. E. Old Vail Connection Rd.

#### Notes:

### **Camera Information**

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm Lens: Canon RF 24-105mm f/4-7.1 IS STM Focal Length: 35mm | F-Stop: f/10 | ISO:100 Dimensions in pixel: 6240 x 4160

- Representative View for: residents, commuter
- Location: 964 Aerospace Pkwy Latitude: 32.090031° N; Longitude: 110.955978° W
- View Point Elevation at Eye Level: 2,596 ft.
- Looking: southeast
- Poles Visible: Pole Structures
- Image File Name: IMG 2353.JPG

- Photo Taken: August 5, 2023, 10:29 AM The image is based on a single photo and represents approximately 54 degree horizontal field of view.
- This view is approximately 5,331 feet northwest of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Back to Map

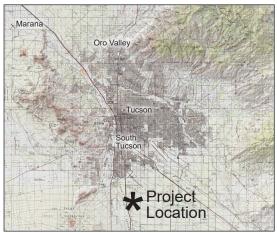


**Existing Condition** 

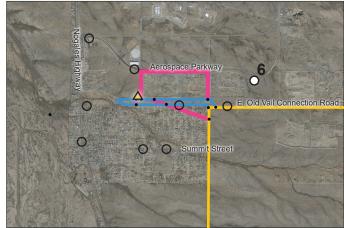


Simulated Condition

### Key Observation Point (KOP) # 6



Vicinity Map



Project Map Enlargement





### Notes:

### Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm Lens: Canon RF 24-105mm f/4-7.1 IS STM Focal Length: 50mm | F-Stop: f/6.3 | ISO:100 Dimensions in pixel: 6240 x 4160

- Representative View for: residents, commuters, commercial
- Location: 3651 Aerospace Pkwy Latitude: 32.081220° N; Longitude:110.915699° W
- View Point Elevation at Eye Level: 2,690 ft.
- Looking: southwest
- Poles Visible: Pole Structures
- Image File Name: IMG 2457.JPG

- Photo Taken: August 5, 2023, 10:44 AM The image is based on a single photo and represents approximately 39.5 degree horizontal field of view.
- This view is approximately 3,369 feet northeast of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Back to Map

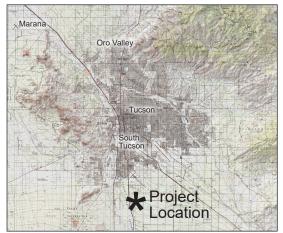


**Existing Condition** 



Simulated Condition

### Key Observation Point (KOP) # 7



Vicinity Map



Project Map Enlargement



**Legend** O KOP Proposed Rte. Existing Rte. Eliminated Aerospace Pkwy. Segment 1,000 ft. Cone of Vision E. Old Vail Connection Rd

### Notes:

### Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm Lens: Canon RF 24-105mm f/4-7.1 IS STM Focal Length: 35mm | F-Stop: f/10 | ISO:100 Dimensions in pixel: 6240 x 4160

- Representative View for: residents, commercial
- Location: 3101 E Old Vail Rd Latitude: 32.075845° N; Longitude:110.922090° W
- View Point Elevation at Eye Level: 2,668 ft.
- Looking: west
- Poles Visible: Pole Structures
- Image File Name: IMG 2610.JPG

- Photo Taken: August 5, 2023, 11:14 AM
  The image is based on a single photo and represents approximately 54 degree horizontal field of view.
- This view is approximately 912 feet east of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

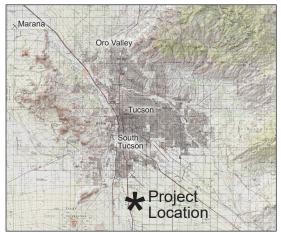


**Existing Condition** 

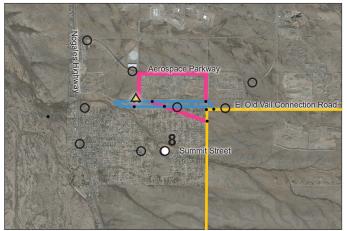


**Simulated Condition** 

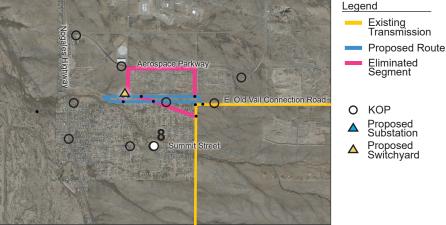
### Key Observation Point (KOP) # 8



Vicinity Map



Project Map Enlargement





### Notes:

### **Camera Information**

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm Lens: Canon RF 24-105mm f/4-7.1 IS STM Focal Length: 35mm | F-Stop: f/9 | ISO:100 Dimensions in pixel: 6240 x 4160

- Representative View for: residents
- Location: 2355 E Summit St Latitude: 32.066939° N; Longitude: 110.937235° W
- View Point Elevation at Eye Level: 2,644 ft.
- Looking: north
- Poles Visible: Pole Structures
- Image File Name: IMG 2649.JPG

- Photo Taken: August 5, 2023, 11:31 AM
  The image is based on a single photo and represents approximately 54 degree horizontal field of view.
- This view is approximately 3,581 feet south of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.

Back to Map

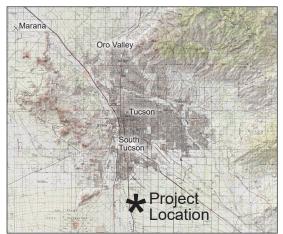


**Existing Condition** 



Simulated Condition

### Key Observation Point (KOP) # 9



Vicinity Map



Project Map Enlargement



# **Legend** O KOP Proposed Rte. Existing Rte. Eliminated Segment E. Old Vail Connection Rd Summit St

#### Notes:

### Camera Information

- Type: Canon EOS RP
- Sensor: CMOS (Full-Frame) 35.9mm x 24mm Lens: Canon RF 24-105mm f/4-7.1 IS STM Focal Length: 50mm | F-Stop: f/10 | ISO:100 Dimensions in pixel: 6240 x 4160

- Representative View for: temple visitors, commercial
- Location: 10049 S Nogales Hwy Latitude: 32.068406° N; Longitude: 110.958424° W
- View Point Elevation at Eye Level: 2,599 ft.
- Looking: northeast
- Poles Visible: Pole Structures
- Image File Name: IMG 2694.JPG

- Photo Taken: August 5, 2023, 11:45 AM The image is based on a single photo and represents approximately 39.5 degree horizontal field of view.
- This view is approximately 4,091 feet southwest of the nearest pole represented in the simulation.
- The simulation is based on the best information available and is preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.



**Existing Condition** 



**Simulated Condition**