

Kino to DeMoss Petrie 138 kV Transmission Line Project

Visual Simulation Package

Prepared By: DockIt Consulting, LLC

May 11, 2021

Kino to DMP 138 kV Transmission Line Project Key Observation Point (KOP) - Key Map



General Project Notes

- Simulations shown do not represent a final design. All simulations are based on the best information available and are preliminary. Final alignment and structure locations are subject to change based on final engineering and other factors.
- Simulations along Grant Road, in the area of the Grant Road Widening Project are based on preliminary design plans provided by City of Tucson Department of Transportation.
- Possible distribution relocation as shown on the map below.
- Conductors and wires in "Enhanced Simulations" are shown thickened/darkened to indicate location and does not reflect real world conditions.
- * Relocation of existing distribution contingent upon available space, cooperation with landowners, cooperation with existing utility attachers and lack of conflicts with other utilities.





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

KOP

- Representative View for: Residents, vehicle and pedestrian travelers looking north at Pueblo Gardens Neighborhood Location: Intersection of S. Campbell Ave./E. 36th St. Latitude: 32.192263° N; Longitude: 110.943711° W View Point Elevation at Eye Level: 2,486 ft.

- Looking: north

- Poles Visible: Route 2 Structures 35-39 Image File Name: IMG_0178.JPG

- Photo Taken: Nov. 1st, 2020 at 12:55 pm The image is based on a single photo and represent
- approximately 39.5 degree horizontal field of view. This view is approximately 310 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.



Current Condition



Simulated Condition





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
- •

KOP

- Representative View for: Recreational users of Quincie Douglas/Silverlake Park.
- Location: 2420 S Kino Parkway Latitude: 32.197718° N; Longitude: 110.950203° W
- View Point Elevation at Eye Level: 2,460 ft.
- Looking: northeast

- Poles Visible: Route 1; Structures 33-35 Image File Name: IMG_0168.jpg

- Photo Taken: Nov. 1st, 2020 at 12:46 pm The image is based on a single photo and represent approximately 39.5 degree horizontal field of view. This view is approximately 285 feet west 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.



Current Condition



Simulated Condition





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

KOP

- Representative View for: motorists traveling westbound on East 22nd Street.
- Location: 1621 E 22nd St. Latitude: 32.207072° N; Longitude: 110.947398° W View Point Elevation at Eye Level: 2,465 ft.
- Looking: west

- Poles Visible: Route 1 & 2; Structures: Lines overhead
- Image File Name: IMG_0189.jpg

- Photo Taken: Nov 1st, 2020 at 1:17 pm The image is based on a single photo and represent
- approximately 54 degree horizontal field of view. This view is approximately 225 feet southeast 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.



Current Condition



Simulated Condition

Route 1 & 2





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
- •

KOP

- Representative View for: motorists traveling northbound on South Kino Pkwy. Location: 209 S. Kino Pkwy. Latitude: 32.212734° N; Longitude: 110.947897° W View Point Elevation at Eye Level: 2,458 ft.

- Looking: northeast

- Poles Visible: Route 1 & 2; Structures 21-25
- Image File Name: IMG_0195.jpg

- Photo Taken: Nov 1st, 2020 at 1:28 pm The image is based on a single photo and represent
- approximately 54 degree horizontal field of view. This view is approximately 349 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.



Current Condition



Simulated Condition





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/11 | ISO:100 Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: Recreational Users of Cherry Field
- Location: 327 South Kino Parkway Latitude: 32.218021° N; Longitude: 110.944415° W
- View Point Elevation at Eye Level: 2,450 ft.
- Looking: south
- Poles Visible: Route 1 & 2; Structures: 22

Image File Name: IMG_0167.jpg

- Photo Taken: Nov 1st, 2020 at 12:37 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 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.



Current Condition



Simulated Condition



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
- KOP
- Representative View for: motorists traveling northbound on South Kino Pkwy Location: 127 S. Kino Pkwy. Latitude: 32.220950° N; Longitude: 110.943669° W View Point Elevation at Eye Level: 2,451 ft.

- Looking: northwest Poles Visible: Route 1 & 2; Structures: 17-19 Image File Name: IMG_0204.jpg

- Photo Taken: Nov 1st, 2020 at 1:39 pm
- The image is based on a single photo and represents approximately 53 degree horizontal field of view.
- This view is approximately 675 feet southeast 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.
- Two Šimulations shown as distribution will be evaluated on an individual basis and may/may not be placed underground dependent upon existing constraints. Relocation of service drops will be reviewed on an individual basis to determine feasibility. Simulation shown does not represent a final design.



Current Condition



Simulated Condition with existing distribution removed

Route 1 & 2



Current Condition



Simulated Condition with existing distribution

Route 1 & 2





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

KOP

- Representative View for: Motorists and pedestrians traveling Representative View for: Motorists and pedestrians northbound on South Campbell Avenue Location: 399 S Campbell Ave. Latitude: 32.227218° N; Longitude: 110.943693° W View Point Elevation at Eye Level: 2,451 ft. Looking: northwest Poles Visible: Route 1 & 2; Structures: 12-15

- - Image File Name: IMG 0206.jpg

- Photo Taken: Nov 1st, 2020 at 1:45 pm
- The image is based on a single photo and represent approximately 39 degree horizontal field of view.
- This view is approximately 562 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.
- Where distribution is removed, so have individual services; however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing distribution removed

Route 1 & 2





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

KOP

- Representative View for: Students/Staff of U of A at Old Main building, looking east across mall
- Location: Old Main on the campus of University of Arizona
- Latitude: 32.231910° N; Longitude: 110.953175° W

- View Point Elevation at Eye Level: 2,450 ft.
- Looking: east
- Poles Visible: Route 1 & 2; Structures: 13 Image File Name: IMG_0313.jpg

- Photo Taken: Nov 2nd, 2020 at 12:26 pm
- The image is based on a single photo and represent approximately 35.2 degree horizontal field of view.
- This view is approximately 2,834 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.



Current Condition



Simulated Condition





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: 24mm | F-Stop: f/5.6 | ISO:100 Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: Residents, students, recreation users traveling west on East 3rd Street Location: 1919 E. 3rd St. Latitude: 32.231779° N; Longitude: 110.943153 ° W View Point Elevation at Eye Level: 2,464 ft.

- Looking: west Poles Visible: Route 1 & 2; overhead lines visible Image File Name: IMG_0341.JPG

- Photo Taken: Nov 2nd, 2020 at 12:40 pm
- The image is based on a single photo and represent
- approximately 74 degree horizontal field of view. This view is approximately 421 feet southeast 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. Where distribution is removed, so have individual services;
- however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing distribution removed



Current Condition



Enhanced Simulated Condition with existing distribution removed

Route 1 & 2





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

KOP

- Representative View for: Students/staff of U of A looking Northeast across mall Location: 1768 E. University Blvd. Latitude: 32.231893° N; Longitude: 110.945282° W View Point Elevation at Eye Level: 2,456 ft.

- Looking: northeast Poles Visible: Route 1 & 2; Structures: 13 Image File Name:IMG_0316.jpg

- Photo Taken: Nov 2nd, 2020 at 12:34 pm The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 441 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. Where distribution is removed, so have individual services; however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing distribution removed

Route 1 & 2



Current Condition



Enhanced Simulated Condition with existing distribution removed







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

KOP

- Representative View for: motorists traveling northbound on North Campbell Avenue Location: 698 N. Campbell Ave. Latitude: 32.230403° N; Longitude: 110.943781° W View Point Elevation at Eye Level: 2,459 ft.

- Looking: northwest Poles Visible: Route 1 & 2; Structures: 12,13 Image File Name: IMG_0211.jpg

- Photo Taken: Nov 1st, 2020 at 1:52 pm
- The image is based on a single photo and represent
- approximately 39 degree horizontal field of view. This view is approximately 805 feet southeast 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. Where distribution is removed, so have individual services; however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing distribution removed





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/5.6 | ISO:100 Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: motorists traveling northbound on North Campbell Avenue Location: 751 N. Campbell Ave. Latitude: 32.230730° N; Longitude: 110.943951° W View Point Elevation at Eye Level: 2,457 ft.

- Looking: north Poles Visible: Route 1 & 2; Structures: 10-13 Image File Name: IMG_0344.JPG

- Photo Taken: Nov 2nd, 2020 at 12:43 pm The image is based on a single photo and represent
- approximately 54 degree horizontal field of view. This view is approximately 685 feet southeast 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. Where distribution is removed, so have individual services; however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing distribution removed





Notes:

- **Camera Information**
- Type: Canon EOS Rebel T5 Sensor: CMOS APS-C 22.3mm x 14.9mm
- Lens: Canon EF/EFS
- Focal Length: 18mm | F-Stop: f/11 | ISO:200 Dimensions in pixel: 5184 x 3456

KOP

- Representative View for: Northbound pedestrians on North Campbell Avenue.
- Location: Intersection of E.University Blvd & N.Campbell Ave. Latitude: 32.231500° N; Longitude: 110.944100° W View Point Elevation at Eye Level: 2,460 ft.

- Looking: northeast Poles Visible: Route 1 & 2; Structures: 13-09 Image File Name: 05.JPG

- Photo Taken: Feb. 1st, 2021 at 11:30 pm
- The image is based on a single photo and represent approximately 66 degree horizontal field of view. This view is approximately 398 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.
- Where distribution is removed, so have individual services; however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing distribution



Current Condition



Simulated Condition with existing distribution removed





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

KOP

- Representative View for: Motorists/pedestrians traveling north on North Campbell Avenue Location: 1062 N. Campbell Ave. Latitude: 32.235032° N; Longitude: 110.943743° W View Point Elevation at Eye Level: 2,475 ft.

- Looking: northwest Poles Visible: Route 1 & 2; Structures: 8-11 Image File Name: IMG_0213.JPG

- Photo Taken: Nov 1st, 2020 at 2:04 pm
- The image is based on a single photo and represent approximately 39 degree horizontal field of view. This view is approximately 490 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. Where distribution is removed, so have individual services; however services to individual residences may have to remain
- above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing distribution removed







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: 24mm | F-Stop: f/8 | ISO:100 Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: Westbound residents on E. Elm St
- Location: 1911 E. Elm St.
- Latitude: 32.242667° N; Longitude: 110.943418° W View Point Elevation at Eye Level: 2,451 ft.
- Looking: west
- Poles Visible: Route 1 & 2; Structures: 1-4, Image File Name: IMG_0217.JPG

- Photo Taken: Nov 1st, 2020 at 2:15 pm The image is based on a single photo and represent approximately 74 degree horizontal field of view. This view is approximately 268 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.


Current Condition







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: 24mm | F-Stop: f/8 | ISO:100 Dimensions in pixel: 6240 x 4160

- KOP
- Representative View for: Westbound residents on E. Elm St
- Location: 1911 E. Elm St.
- Latitude: 32.242667° N; Longitude: 110.943418° W View Point Elevation at Eye Level: 2,451 ft.
- Looking: west
- Poles Visible: Route 1 & 2; Structures: 1-6, Route D; Structures: 36-39

Image File Name: IMG_0217.JPG

- Photo Taken: Nov 1st, 2020 at 2:15 pm The image is based on a single photo and represent approximately 74 degree horizontal field of view. This view is approximately 268 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.



Current Condition



Simulated Condition

Route 1D & 2D





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/11 | ISO:100 Dimensions in pixel: 6240 x 4160

- KOP
- Representative View for: Southbound residents on N Warren Ave
- Location: Intersection of N. Warren Ave. / E. Lester St.
- Latitude: 32.243800° N; Longitude: 110.946905 ° W View Point Elevation at Eye Level: 2,440 ft.

- Looking: south Poles Visible: Route 1 & 2; Structures: 3-5
- Image File Name: IMG 0134.jpg

- Photo Taken: Nov 1st, 2020 at 12:02 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view. This view is approximately 265 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.



Current Condition







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/11 | ISO:100

- Dimensions in pixel: 6240 x 4160
- KOP
- Representative View for: Southbound residents on N Warren Ave
- Location: Intersection of N. Warren Ave. / E. Lester St.
- Latitude: 32.243800° N; Longitude: 110.946905 ° W
- View Point Elevation at Eye Level: 2,440 ft.
- Looking: south
- Poles Visible: Route 1 & 2; Structures: 4,5, Route D; Structures: 37

Image File Name: IMG_0134.jpg

- Photo Taken: Nov 1st, 2020 at 12:02 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view. This view is approximately 265 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.



Current Condition



Simulated Condition

Route 1D & 2D





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

KOP

- Representative View for: Hospital visitors/staff at Main Entry
- Location: University Medical Center Hospital Latitude: 32.242359° N; Longitude: 110.946529° W View Point Elevation at Eye Level: 2,446 ft.

- Looking: north
- Poles Visible: Route 1 & 2; Structures: 3 Image File Name: IMG_0155.JPG

- Photo Taken: Nov 1st, 2020 at 12:13 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view. This view is approximately 273 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.



Current Condition







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
- KOP
- Representative View for: Hospital visitors/staff at Main Entry
- Location: University Medical Center Hospital Latitude: 32.242359° N; Longitude: 110.946529° W
- View Point Elevation at Eye Level: 2,446 ft.
- Looking: north
- Poles Visible: Route 1 & 2; Structures: 4, Route D; Structures: 37

Image File Name: IMG_0155.JPG

- Photo Taken: Nov 1st, 2020 at 12:13 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view. This view is approximately 273 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.



Current Condition







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

KOP

- Representative View for: Eastbound UMCH staff on N Ring Rd
- Location: North Ring Road Latitude: 32.243078° N; Longitude: 110.947283° W View Point Elevation at Eye Level: 2,443 ft.

- Looking: east Poles Visible: Route 1 & 2; Structures: 3-4
- Image File Name: IMG 0160.JPG

- Photo Taken: Nov 1st, 2020 at 12:18 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 304 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. Where distribution is removed, so have individual services; however services to individual residences may have to remain
- above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition







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

KOP

- Representative View for: Eastbound UMCH staff on N Ring Rd
- Location: North Ring Road Latitude: 32.243078° N; Longitude: 110.947283° W View Point Elevation at Eye Level: 2,443 ft.
- Looking: east Poles Visible: Route 1 & 2; Structures: 4-6, Route D; Structures: 35-37
- Image File Name: IMG 0160.JPG

- Photo Taken: Nov 1st, 2020 at 12:18 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 304 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. Where distribution is removed, so have individual services; however services to individual residences may have to remain
- above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition

Route 1D & 2D





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

KOP

- Representative View for: Residents/motorists traveling northbound on North Vine Avenue
- Location: 1601 N. Vine Ave. Latitude: 32.241843° N; Longitude: 110.949782° W View Point Elevation at Eye Level: 2,451 ft.

- Looking: north Poles Visible: Route A; Structures: 30-33, Route B;

Structures: 38-39 Image File Name: IMG_0108.JPG

- Photo Taken: Nov 1st, 2020 at 11:21 am
- The image is based on a single photo and represent approximately 39 degree horizontal field of view. This view is approximately 112 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.



Current Condition



Simulated Condition with existing 46kV and distribution removed





Current Condition



Simulated Condition with existing 46kV and distribution removed





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
- .
- KOP
- Representative View for: Residents/motorists traveling northbound on North Vine Avenue
- Location: 2025 N. Vine Ave. Latitude: 32.246453° N; Longitude: 110.949855° W
- View Point Elevation at Eye Level: 2,427 ft.
- Looking: north

- Poles Visible: Route A; Structures: 28-30 Image File Name: IMG_0110.JPG

- Photo Taken: Nov 1st, 2020 at 11:32 am The image is based on a single photo and represent
- approximately 39 degree horizontal field of view. This view is approximately 345 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.



Current Condition







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

KOP

- Representative View for: Motorists traveling westbound on East Grant Road
- Location: 1921 E. Grant Rd. Latitude: 32.250425° N; Longitude: 110.943245° W View Point Elevation at Eye Level: 2,428 ft.

- Looking: west Poles Visible: Route D Structures 28-31 Image File Name: IMG_0016.JPG

- Photo Taken: Nov 1st, 2020 at 9:33 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view. This view is approximately 380 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.
- Preliminary design shown considered the Grant Road widening Project per the Preliminary Plan set as provided by City of Tucson Department of Transportation



Current Condition







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: 24mm | F-Stop: f/10 | ISO:100 Dimensions in pixel: 6240 x 4160
- KOP
- Representative View for: Motorists traveling eastbound on East Grant Road
- Location: 1710 E. Grant Rd. Latitude: 32.249795° N; Longitude: 110.946358° W View Point Elevation at Eye Level: 2,425 ft.
- Looking: east
- Poles Visible: Route D Structures 30-31

Image File Name: IMG 0122.JPG

- Photo Taken: Nov 1st, 2020 at 11:41 pm
- The image is based on a single photo and represent
- approximately 74 degree horizontal field of view. This view is approximately 212 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. Preliminary design shown considered the Grant Road widening
- Project per the Preliminary Plan set as provided by City of Tucson Department of Transportation



Current Condition





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

- KOP
- Representative View for: Motorists and residents traveling westbound on East Grant Road
- Location: Intersection of E. Grant Rd./N. Cherry Ave.
- Latitude: 32.250217° N; Longitude: 110.948313° W View Point Elevation at Eye Level: 2,428 ft.
- Looking: west
- Poles Visible: Route A; Structures 24-29, Route D; Structures: 24-28

Image File Name: IMG_0260.JPG

- Photo Taken: Nov 2nd, 2020 at 11:50 am The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 330 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.
- Preliminary design shown considered the Grant Road widening Project per the Preliminary Plan set as provided by City of Tucson Department of Transportation



Current Condition





Current Condition





Current Condition





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 | ISO:100
- Dimensions in pixel: 6240 x 4160
- KOP
- Representative View for: Motorists and residents traveling eastbound on East Grant Road
- Location: 1140 E. Grant Rd. Latitude: 32.249671° N; Longitude: 110.954526° W View Point Elevation at Eye Level: 2,416 ft.
- Looking: east
- Poles Visible: Route A; Structures 26-29, Route D; Structures: 26-31

Image File Name: IMG_0273.JPG

- Photo Taken: Nov 2nd, 2020 at 11:59 am The image is based on a single photo and represent approximately 39 degree horizontal field of view.
- This view is approximately 318 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.
- Preliminary design shown considered the Grant Road widening Project per the Preliminary Plan set as provided by City of Tucson Department of Transportation



Current Condition





Current Condition







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/8 | ISO:100 Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: Residents/motorists traveling on North Vine Avenue, looking west down alley
- Location: 1505 N. Vine Ave. Latitude: 32.241126° N; Longitude: 110.949683° W View Point Elevation at Eye Level: 2,452 ft.
- Looking: west
- Poles Visible: Route B; Structures: 32-36

Image File Name: IMG 0102.JPG

- Photo Taken: Nov 1st, 2020 at 11:16 am
- The image is based on a single photo and represent approximately 39 degree horizontal field of view. This view is approximately 457 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.
- Two Simulations shown as distribution will be evaluated on an individual basis and may/may not be placed underground dependent upon existing constraints. Relocation of service drops will be reviewed on an individual basis to determine feasibility.



Current Condition



Simulated Condition with existing 46kV and distribution removed



Current Condition



Simulated Condition with existing 46kV removed and distribution remaining

Route B





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

KOP

- Representative View for: Residents/motorists traveling north on North Park Avenue, looking northeast Location: 1502 N. Park Ave. Latitude: 32.240899° N; Longitude: 110.956886° W

- View Point Elevation at Eye Level: 2,436 ft.
- Looking: northeast
- Poles Visible: Route B; Structures: 28-32 Image File Name: IMG_0099.JPG

- Photo Taken: Nov 1st, 2020 at 11:08 am The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 90 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.
- Two Simulations shown as distribution will be evaluated on an individual basis and may/may not be placed underground dependent upon existing constraints. Relocation of service drops will be reviewed on an individual basis to determine feasibility.



Current Condition



Simulated Condition with 46kV and distribution removed

Route B
Key Observation Point (KOP) # 20a - North





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

KOP

- Representative View for: Residents/motorists traveling north on North Park Avenue, looking north Location: Intersection of N. Park Ave./E. Lester St.
- Latitude: 32.243653° N; Longitude: 110.956761° W View Point Elevation at Eye Level: 2,428 ft.

- Looking: north Poles Visible: Route B; Structures: 28-31 Image File Name: IMG_0082.JPG

Simulation Notes

Photo Taken: Nov 1st, 2020 at 10:56 am

- The image is based on a single photo and represent approximately 39 degree horizontal field of view.
- This view is approximately 540 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. Two Simulations shown as distribution will be evaluated on an individual basis and may/may not be placed underground dependent upon existing constraints. Relocation of service drops will be reviewed on an individual basis to determine feasibility.

Key Observation Point (KOP) #20a - North



Current Condition



Simulated Condition with existing 46kV and distribution removed

Key Observation Point (KOP) # 20a - South





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

KOP

- Representative View for: Residents/motorists traveling south on North Park Avenue, looking south
- Location: Intersection of N. Park Ave./E. Lester St.
- Latitude: 32.243653° N; Longitude: 110.956761° W View Point Elevation at Eye Level: 2,428 ft.
- Looking: south
- Poles Visible: Route B; Structures: 33-34 Image File Name: IMG_0090.JPG

- Photo Taken: Nov 1st, 2020 at 10:58 am The image is based on a single photo and represent approximately 39 degree horizontal field of view.
- This view is approximately 480 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.
- Two Simulations shown as distribution will be evaluated on an individual basis and may/may not be placed underground dependent upon existing constraints. Relocation of service drops will be reviewed on an individual basis to determine feasibility.

Key Observation Point (KOP) #20a - South



Current Condition



Simulated Condition with existing 46kV and distribution removed in the same ROW

Route B





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

- KOP

Representative View for: Residents/motorists traveling north on North Park Avenue, looking north near Casa

- Location: 1998 N. Park Ave.
- Latitude: 32.245622° N; Longitude: 110.956798° W View Point Elevation at Eye Level: 2,440 ft.
- Looking: north
- Poles Visible: Route B; Structures: 25-28 Image File Name: IMG_0076.JPG

- Photo Taken: Nov 1st, 2020 at 10:46 am
- The image is based on a single photo and represent approximately 39 degree horizontal field of view.
- This view is approximately 220 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. Two Simulations shown as distribution will be evaluated on an individual beside and engineering and other factors.
- an individual basis and may/may not be placed underground dependent upon existing constraints. Relocation of service drops will be reviewed on an individual basis to determine feasibility.



Current Condition



Simulated Condition with existing 46kV and distribution removed





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

KOP

- Representative View for: Motorists and residents traveling eastbound on East Grant Road
- Location: Intersection of E. Grant Rd./N. Park Ave.
- Latitude: 32.249571° N; Longitude: 110.957043° W
- View Point Elevation at Eye Level: 2,425 ft.
- Looking: east
- Poles Visible: Route A; Structures 25-29, Route D; Structures: 25-31 ; Route B is not visible at this KOP.

Image File Name: IMG 0073.JPG

- Photo Taken: Nov 1st, 2020 at 10:39 am
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 456 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.
- Preliminary design shown considered the Grant Road widening Project per the Preliminary Plan set as provided by City of Tucson Department of Transportation



Current Condition



Simulated Condition



Current Condition



Simulated Condition





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/11 | ISO:100 Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: Residents/motorists traveling south on North Park Avenue Location: 2359 N. Park Ave. Latitude: 32.249405° N; Longitude: 110.956935° W

- View Point Elevation at Eye Level: 2,426 ft.
- Looking: south Poles Visible: Route B; Structures: 26-30 Image File Name: IMG_0074.JPG

- Photo Taken: Nov 1st, 2020 at 10:40 am
- The image is based on a single photo and represent approximately 54 degree horizontal field of view.
- This view is approximately 253 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. Where distribution is removed, so have individual services; however
- services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing 46kV and distribution removed

Route B



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: 32mm | F-Stop: f/9 | ISO:100 Dimensions in pixel: 6240 x 4160

- KOP
- Representative View for: Residents/motorists traveling westbound on East Grant Road
- Location: 38 E. Grant Rd. Latitude: 32.250490° N; Longitude: 110.971409° W View Point Elevation at Eye Level: 2,385 ft.
- Looking: west
- Poles Visible: Route A & B & D: Structures: 12-16

Image File Name: IMG_0035.JPG

- Photo Taken: Nov 1st, 2020 at 9:47 am
- The image is based on a single photo and represent approximately 59 degree horizontal field of view. This view is approximately 250 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.



Current Condition



Simulated Condition

Route A & B & D



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

- KOP
- Representative View for: Residents/motorists traveling westbound on West Grant Road Location: 333 W. Grant Rd. Latitude: 32.250488° N; Longitude: 110.977385° W View Point Elevation at Eye Level: 2,364 ft.

- Looking: west Poles Visible: Route A & B & D; Structures: 08-12 Image File Name: IMG_0043.JPG

- Photo Taken: Nov 1st, 2020 at 9:59 am
- The image is based on a single photo and represent approximately 39 degree horizontal field of view. This view is approximately 546 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.



Current Condition



Simulated Condition

Route A & B & D



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/7.1 | ISO:100 Dimensions in pixel: 6240 x 4160

- •

KOP

- Representative View for: Residents/motorists traveling westbound on West Grant Road- focus on median art
- Location: 333 W. Grant Rd. Latitude: 32.250416° N; Longitude: 110.977659° W
- View Point Elevation at Eye Level: 2,364 ft.
- Looking: west
- Poles Visible: Route A & B & D; Structures: 08-12

Image File Name: IMG_0052.JPG

- Photo Taken: Nov 1st, 2020 at 10:02 am
- The image is based on a single photo and represent approximately 54 degree horizontal field of view. This view is approximately 461 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.



Current Condition



Simulated Condition

Route A & B & D



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/8 | ISO:100 Dimensions in pixel: 6240 x 4160

KOP

- P Representative View for: Residents/motorists traveling eastbound on West Grant Road Location: 537 W. Grant Rd. Latitude: 32.250039° N; Longitude: 110.980231° W View Point Elevation at Eye Level: 2,354 ft. Looking: east Poles Visible: Route A & B & D; Structures: 12-16 Image File Name: IMG_0063.JPG

- Photo Taken: Nov 1st, 2020 at 10:19 am
- The image is based on a single photo and represent approximately 39 degree horizontal field of view. This view is approximately 352 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.



Current Condition



Simulated Condition

Route A & B & D





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/8 | ISO:100 Dimensions in pixel: 6240 x 4160

- KOP
- Representative View for: Residents/motorists traveling westbound on West Grant Road
- Location: 895 W. Grant Rd. Latitude: 32.250482° N; Longitude: 110.986018° W View Point Elevation at Eye Level: 2,339 ft.
- Looking: west
- Poles Visible: Route A & B & D; Structures: 03-07 Image File Name: IMG_0056.JPG

- Photo Taken: Nov 1st, 2020 at 10:09 am
- The image is based on a single photo and represent approximately 39 degree horizontal field of view.
- This view is approximately 435 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.



Current Condition



Simulated Condition

Route A & B & D



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/11 | ISO:100 Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: Motorists traveling southbound on North Campbell Avenue
- Location: Intersection of E. Grant Rd. & N. Campbell Ave. Latitude: 32.250060° N; Longitude: 110.944240° W View Point Elevation at Eye Level: 2,432 ft.

- Looking: south Poles Visible: Route D; Structures 33-37 Image File Name: IMG_0128.JPG

- Photo Taken: Nov 1st, 2020 at 11:51 pm The image is based on a single photo and represent approximately 39 degree horizontal field of view.
- This view is approximately 620 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
- Preliminary design shown considered the Grant Road widening Project per the Preliminary Plan set as provided by City of Tucson Department of Transportation



Current Condition



Simulated Condition



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: 24mm | F-Stop: f/9 | ISO:100 Dimensions in pixel: 6240 x 4160

- KOP
- P Representative View for: Residents of Catalina Vista Neighborhood looking west Location: 2060 N. Campbell Ave. Latitude: 32.246706° N; Longitude: 110.943713° W View Point Elevation at Eye Level: 2,440 ft.

- Looking: west Poles Visible: Route D; Structure: 34 Image File Name: IMG_0230.JPG

- Photo Taken: Nov 1st, 2020 at 2:27 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view. This view is approximately 189 feet east of the nearest pole
- represented in the simulation.
- Preliminary design shown considered the Grant Road widening Project per the Preliminary Plan set as provided by City of Tucson Department of Transportation



Current Condition



Simulated Condition



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/8 | ISO:100 Dimensions in pixel: 6240 x 4160

KOP

- Representative View for: Pedestrians/residents of Catalina Vista Neighborhood looking northwest at mid-block crossing Location: 2098 N. Campbell Ave. Latitude: 32.246254° N; Longitude: 110.943889° W View Point Elevation at Eye Level: 2,440 ft.

- Looking: northwest
- Poles Visible: Route D; Structures: 31-34 Image File Name: IMG_0232.JPG

- Photo Taken: Nov 1st, 2020 at 2:25 pm
- The image is based on a single photo and represent approximately 39 degree horizontal field of view. This view is approximately 210 feet southeast 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.
- Preliminary design shown considered the Grant Road widening Project per the Preliminary Plan set as provided by City of Tucson Department of Transportation



Current Condition



Simulated Condition





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

KOP

- Representative View for: Northbound motorists/pedestrians on North Campbell Avenue. Location: Intersection of N. Campbell Ave. & E. Adams St. Latitude: 32.240734° N; Longitude: 110.943823° W View Point Elevation at Eye Level: 2,453 ft.

- Looking: northwest Poles Visible: Route 1 & 2; Structures: 5-7, Route D; Structures: 36-39
- Image File Name: IMG 0280.JPG

Simulation Notes

- Photo Taken: Nov 2nd, 2020 at 12:07 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view. This view is approximately 261 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. Preliminary design shown considered the Grant Road widening Project per the Preliminary Plan set as provided by City of Tucson Department of Transportation
- Where distribution is removed, so have individual services; however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.

pg100



Current Condition



Simulated Condition with existing distribution removed

Route 1 & 2



Current Condition



Simulated Condition with existing distribution removed

Route 1D & 2D





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

KOP

- Representative View for: Southbound motorists/pedestrians on North Campbell Avenue. Location: 1514 N. Campbell Ave. Latitude: 32.241343° N; Longitude: 110.943845° W View Point Elevation at Eye Level: 2,453 ft.

- Looking: southwest Poles Visible: Route 1 & 2; Structures: 8-11 Image File Name: IMG_0293.JPG

- Photo Taken: Nov 2nd, 2020 at 12:10 pm
- The image is based on a single photo and represent approximately 54 degree horizontal field of view. This view is approximately 418 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. Where distribution is removed, so have individual services; however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing distribution removed







Notes:

- **Camera Information**
- Type: Canon EOS Rebel T5 Sensor: CMOS APS-C 22.3mm x 14.9mm
- Lens: Canon EF/EFS
- Focal Length: 18mm | F-Stop: f/11 | ISO:200 Dimensions in pixel: 5184 x 3456

KOP

- Representative View for: Northbound pedestrians on North Campbell Avenue.
- Location: 570 N. Campbell Ave. Latitude: 32.228681° N; Longitude: 110.944094° W View Point Elevation at Eye Level: 2,457 ft.

- Looking: northeast Poles Visible: Route 1 & 2; Structures: 15-12 Image File Name: 01.JPG

- Photo Taken: Feb. 1st, 2021 at 11:16 pm
- The image is based on a single photo and represent approximately 66 degree horizontal field of view. This view is approximately 15 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. Where distribution is removed, so have individual services; however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing distribution



Current Condition



Simulated Condition with existing distribution removed

Route 1 & 2





Notes:

- **Camera Information**
- Type: Canon EOS Rebel T5 Sensor: CMOS APS-C 22.3mm x 14.9mm
- Lens: Canon EF/EFS
- Focal Length: 18mm | F-Stop: f/11 | ISO:200 Dimensions in pixel: 5184 x 3456

KOP

- Representative View for: Northbound pedestrians on North Campbell Avenue.
- Location: 900 N. Campbell Ave. Latitude: 32.232833° N; Longitude: 110.944139° W View Point Elevation at Eye Level: 2,463 ft.

- Looking: northeast Poles Visible: Route 1 & 2; Structures: 12-10 Image File Name: 06.JPG

- Photo Taken: Feb. 1st, 2021 at 11:33 pm
- The image is based on a single photo and represent approximately 66 degree horizontal field of view. This view is approximately 622 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. Where distribution is removed, so have individual services; however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.


Current Condition



Simulated Condition with existing distribution



Current Condition



Simulated Condition with existing distribution removed

Route 1 & 2





Notes:

- **Camera Information**
- Type: Canon EOS Rebel T5 Sensor: CMOS APS-C 22.3mm x 14.9mm
- Lens: Canon EF/EFS
- Focal Length: 18mm | F-Stop: f/11 | ISO:200 Dimensions in pixel: 5184 x 3456

KOP

- Representative View for: Northbound pedestrians on North Campbell Avenue.
- Location: 1242 N. Campbell Ave. Latitude: 32.238278° N; Longitude: 110.944139° W View Point Elevation at Eye Level: 2,475 ft.

- Looking: northeast Poles Visible: Route 1 & 2; Structures: 09-07 Image File Name: 13.JPG

Simulation Notes

- Photo Taken: Feb. 1st, 2021 at 11:48 pm
- The image is based on a single photo and represent approximately 66 degree horizontal field of view. This view is approximately 232 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. Where distribution is removed, so have individual services; however services to individual residences may have to remain above ground if undergrounding cannot be coordinated with the landowner, requiring the distribution pole holding the individual service to remain in place.



Current Condition



Simulated Condition with existing distribution



Current Condition



Simulated Condition with existing distribution removed

Route 1 & 2