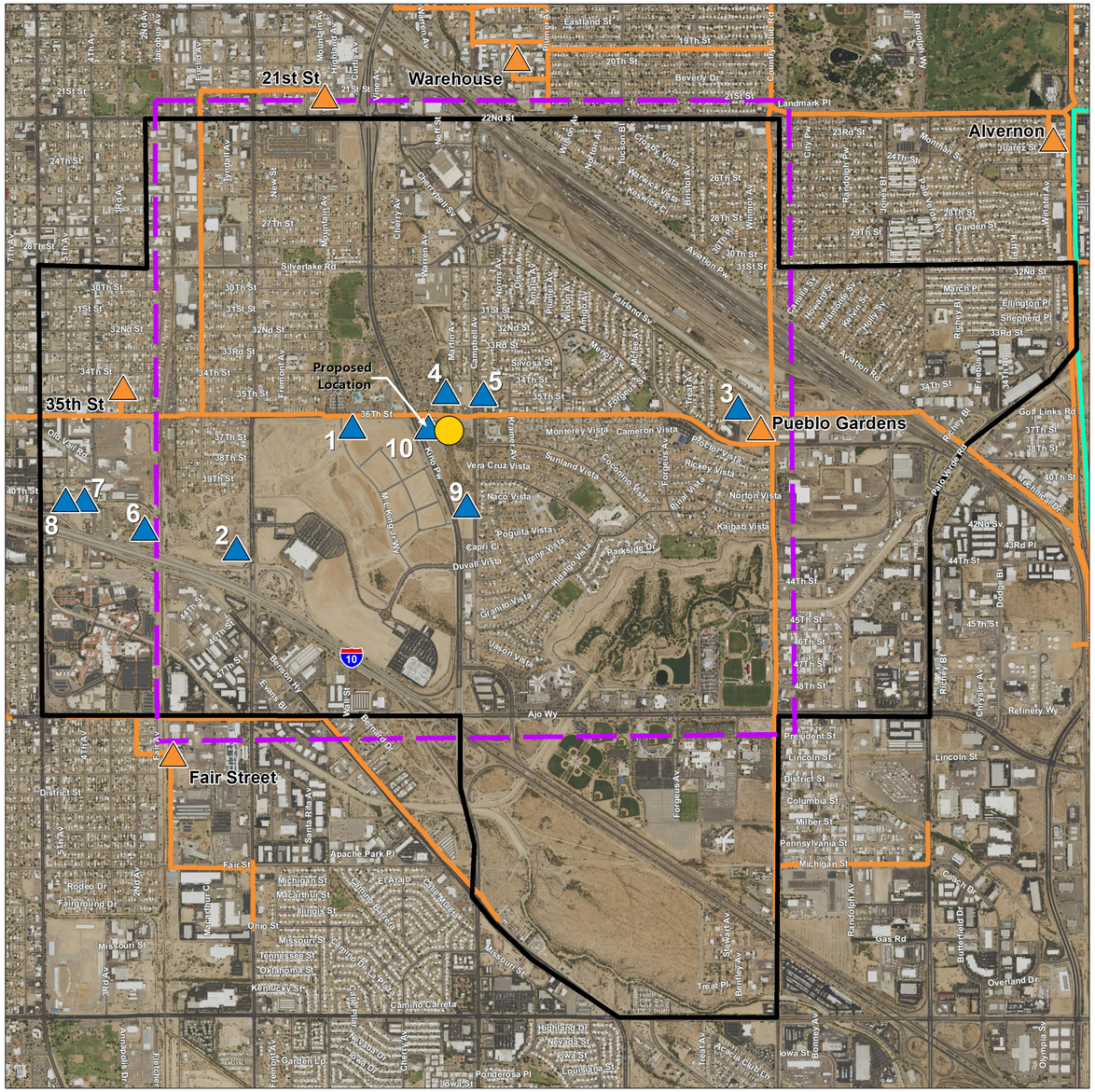
Tucson Electric Power

PROPOSED MONUMENTATION

KINO SUBSTATION

Tucson Electric Power



MAP ID	Priority Rank[1]	Parcel No.	Zoning	Notes
10	1	132130780	Open Space	**Note: Parcel added to alternatives at a later date.** Pros: At load center. Good access off of Kino Pkwy. Potential to fund Pima County park. Cons: Minimal disturbance to riparian habitat, loss of 3 acres of park land. In fairly close (700 feet) proximity to a school.
1	2	13213034D	Civic/Institutional	Pros: Close to load center. Cons: U of A Tech park design does not provide enough remaining space for substation. Redesign would require loss of planned tech park facilities. Only one access point allowed from Martin Luther King per PAD. No access off of 36th Street allowed, due to future deceleration lane to Kino right turn.
3	3	13005686A	C-1	Pros: Large undeveloped area. Cons: Long distance for underground feeders, increases cost substantially. Adjacent to railroad - may require additional grounding (cost). Immediately adjacent to a church.
2	4	132130750	Mixed Use	Pros: Large, undeveloped area. Good access. Cons: Long distance for underground feeders, increases cost substantially. Planned use, except at southeast corner, which may conflict with future ADOT Kino interchange.
4	NA	12907006L	R-2	Removed from consideration. Current water retenion use not compatible with a substation.
5	NA	13005303H	R-2 and C-1	Removed from consideration. Parcel too small.
6	NA	119010388 11901025C 11901020C	SI1- light industrial	Removed from consideration. Too far from load center.
7	NA	119010270 119010280 119010260		Removed from consideration. Too far from load center.
8	NA	11901029A	SB1-Retail Local District	Removed from consideration. Too far from load center.
9	NA	13213079A	Commercial/Retail	Removed from consideration. Parcel shaped awkwardly. Across the street from a church. Difficult access.

[1]Rankings are based on location, parcel size, access, environmental constraints, zoning, compatibility with surrounding land uses, and potential land acquisition and development costs. (1) represents the highest ranking and (4) the lowest ranking. NR represents parcels that are discounted from further review because of environmental or other constraints.

Alternative Locations Considered

Kino 138 kV Substation

Tucson Electric Power

- Load Center
- Alternative Location
- Existing 46 kV Substation
- Existing 46 kV Line
- Existing 138 kV Line
- Study Area Boundary
- Kino Substation Service Area

Sources: ESRI, TEP, and UNS.
Basemap: NAIP, 2015.
Projection: NAD 1983 UTM Zone 12N

850 425 0 850
Feet

1 inch = 850 feet

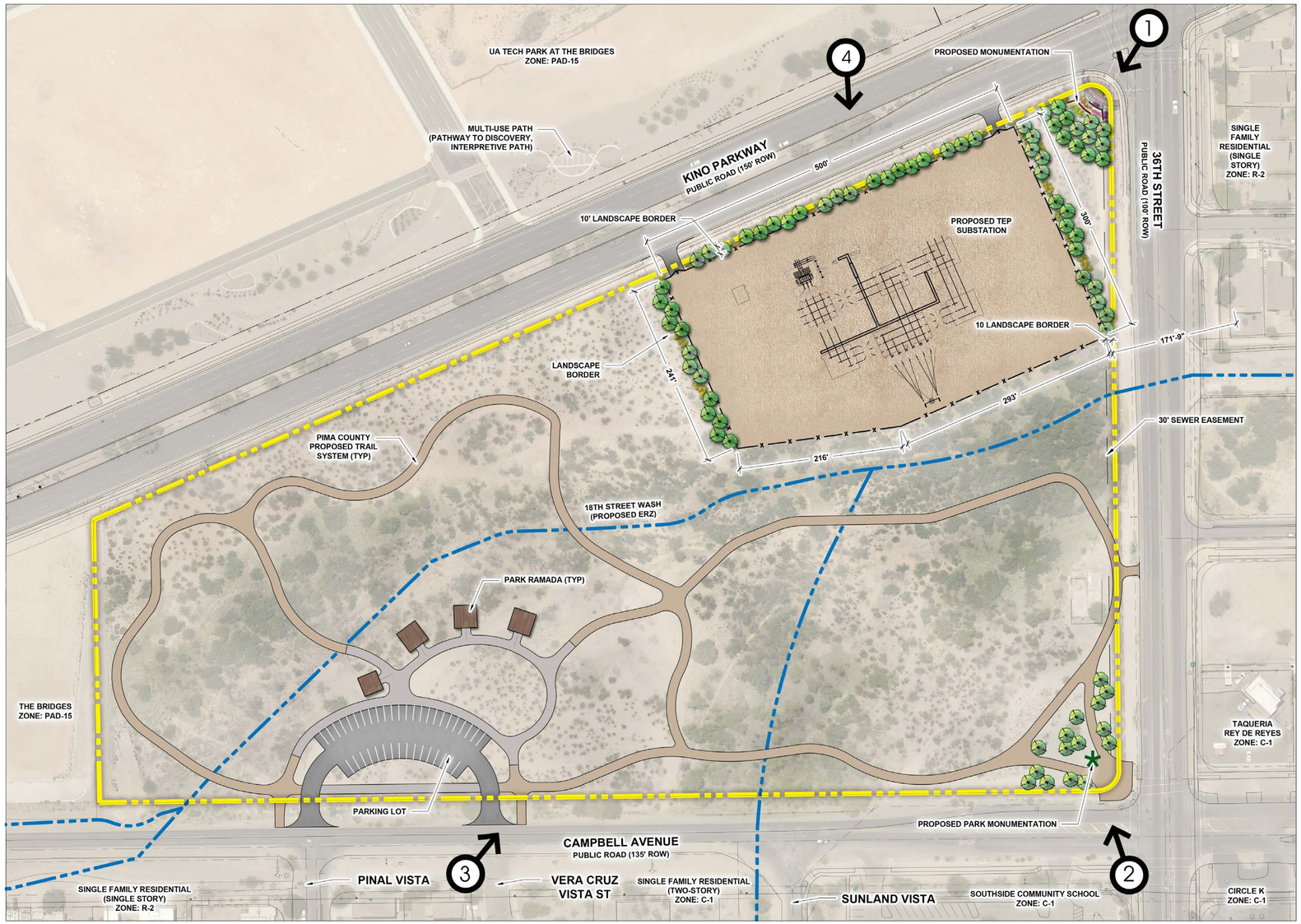
This map is for planning purposes only. TEP and UNS Energy make no warranty of its accuracy.

Created on 14 July 2017
Revised on 22 August 2017

ALTERNATIVE LOCATION ANALYSIS

Tucson Electric Power

PHOTO POINT LOCATION MAP



LEGEND

- PARCEL LINE (20 ACRES)
- WASH
- UTILITY EASEMENT
- 3 — PHOTO POINT LOCATION / VIEW POINT DIRECTION

KINO SUBSTATION

Tucson Electric Power

EXISTING CONDITIONS

PHOTO POINT 1
From the northwest corner of Kino Pkwy and 36th St looking southeast

PROPOSED CONDITIONS

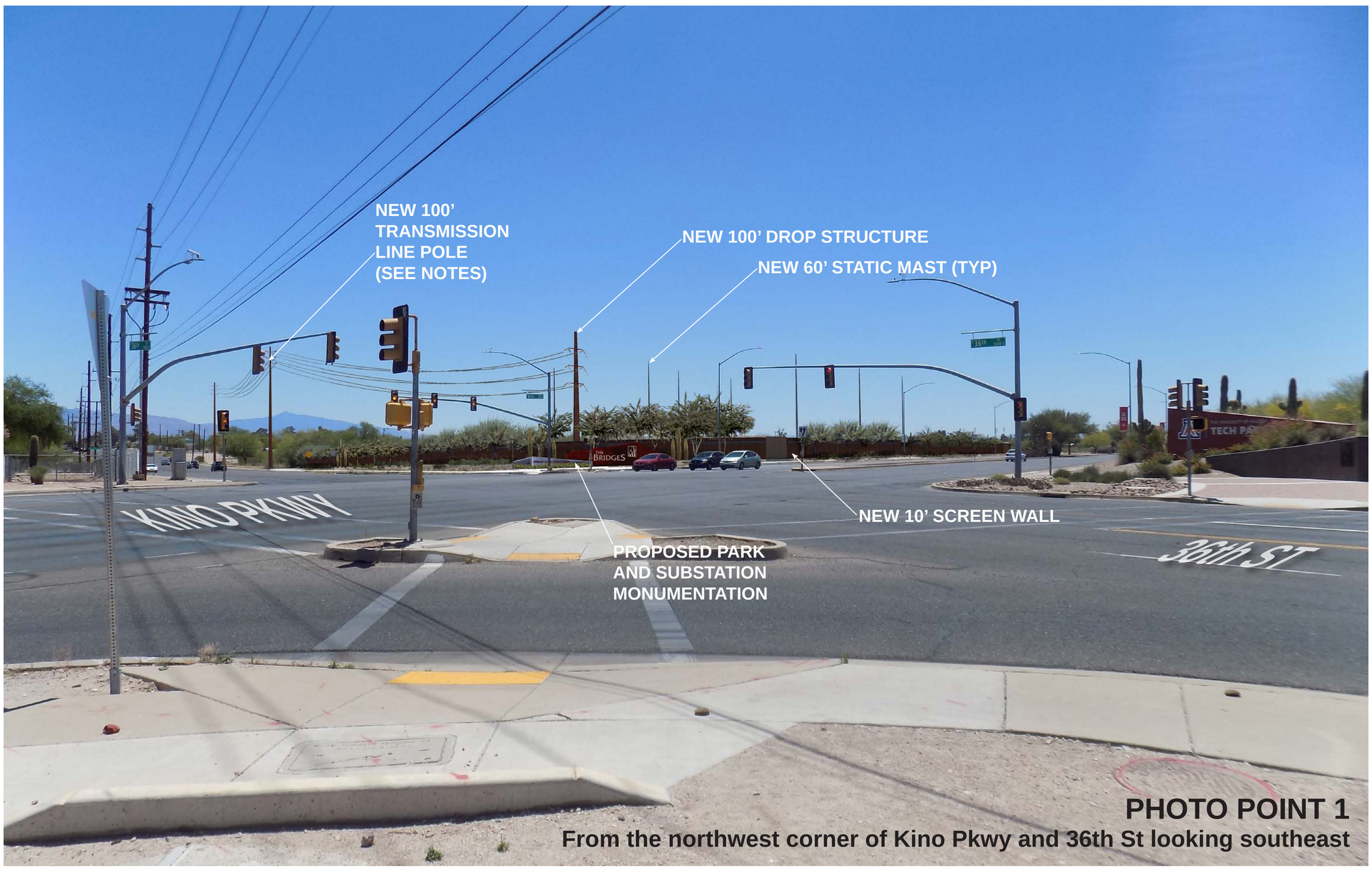


PHOTO POINT 1
From the northwest corner of Kino Pkwy and 36th St looking southeast

KINO SUBSTATION

NOTE: For Representational Purposes Only. Exact Facility Locations and Materials To Be Determined.

Tucson Electric Power

EXISTING CONDITIONS

PHOTO POINT 2a
From the southeast corner of 36th St and Campbell Ave Looking west

PROPOSED CONDITIONS Self-Weathering Steel Drop Structure

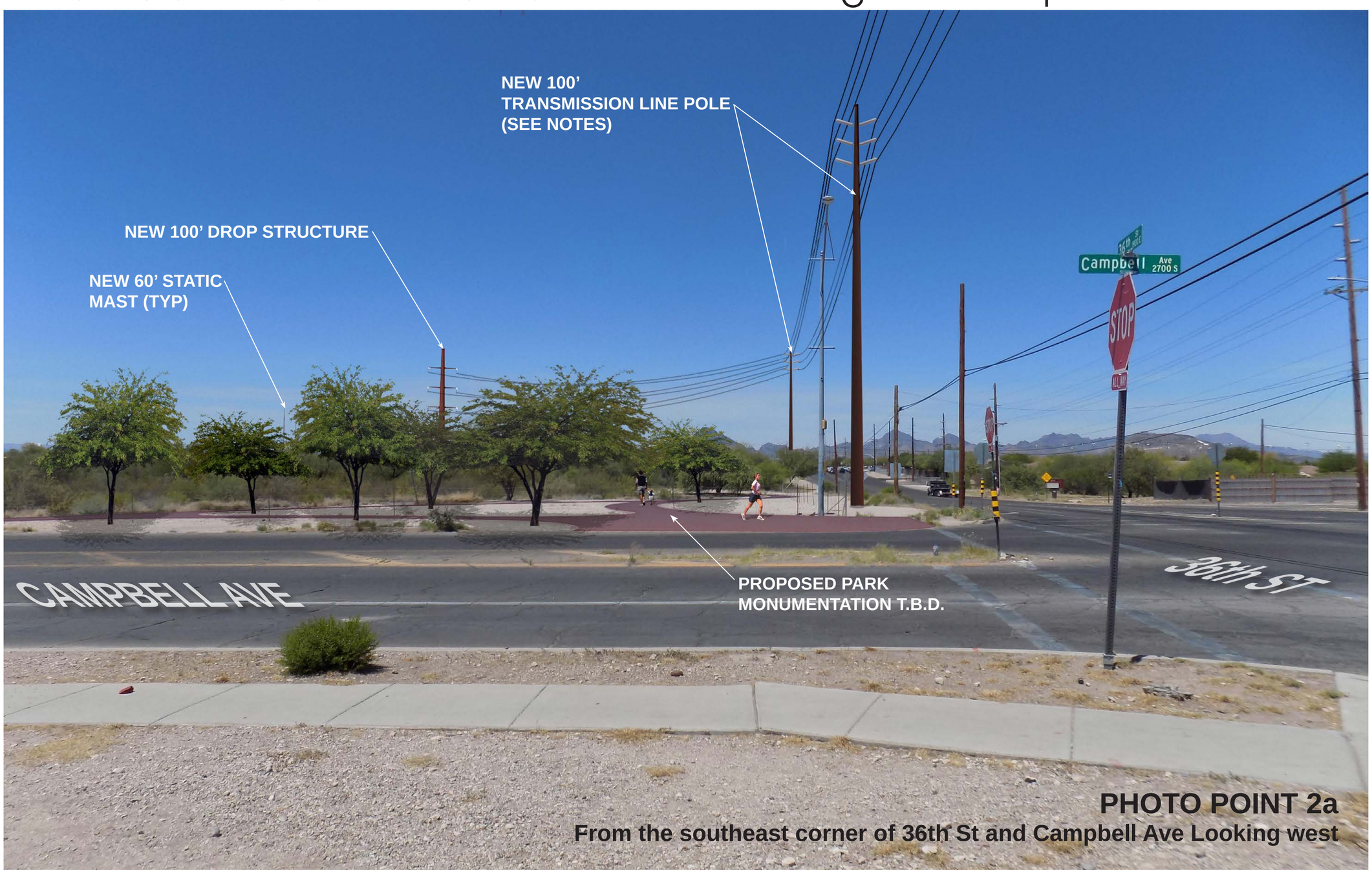


PHOTO POINT 2a
From the southeast corner of 36th St and Campbell Ave Looking west

KINO SUBSTATION

NOTE: For Representational Purposes Only. Exact Facility Locations and Materials To Be Determined.

Tucson Electric Power

EXISTING CONDITIONS

PHOTO POINT 2b
From the southeast corner of 36th St and Campbell Ave Looking west

PROPOSED CONDITIONS Galvanized Steel Drop Structure

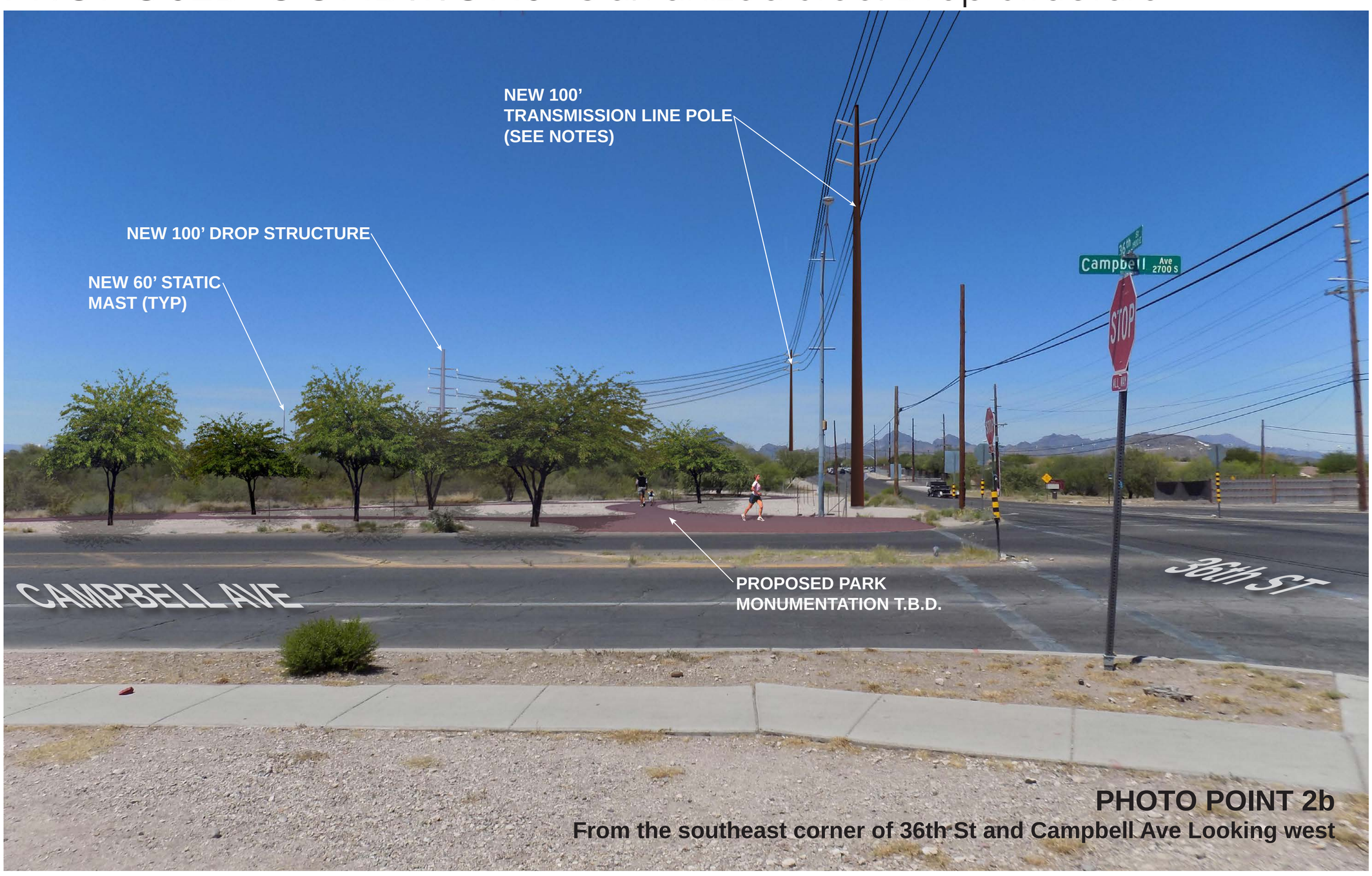


PHOTO POINT 2b
From the southeast corner of 36th St and Campbell Ave Looking west

KINO SUBSTATION

NOTE: For Representational Purposes Only. Exact Facility Locations and Materials To Be Determined.

Tucson Electric Power

EXISTING CONDITIONS

PHOTO POINT 3
From the southeast corner of Campbell Ave and Vera Cruz Vista St looking northwest

PROPOSED CONDITIONS

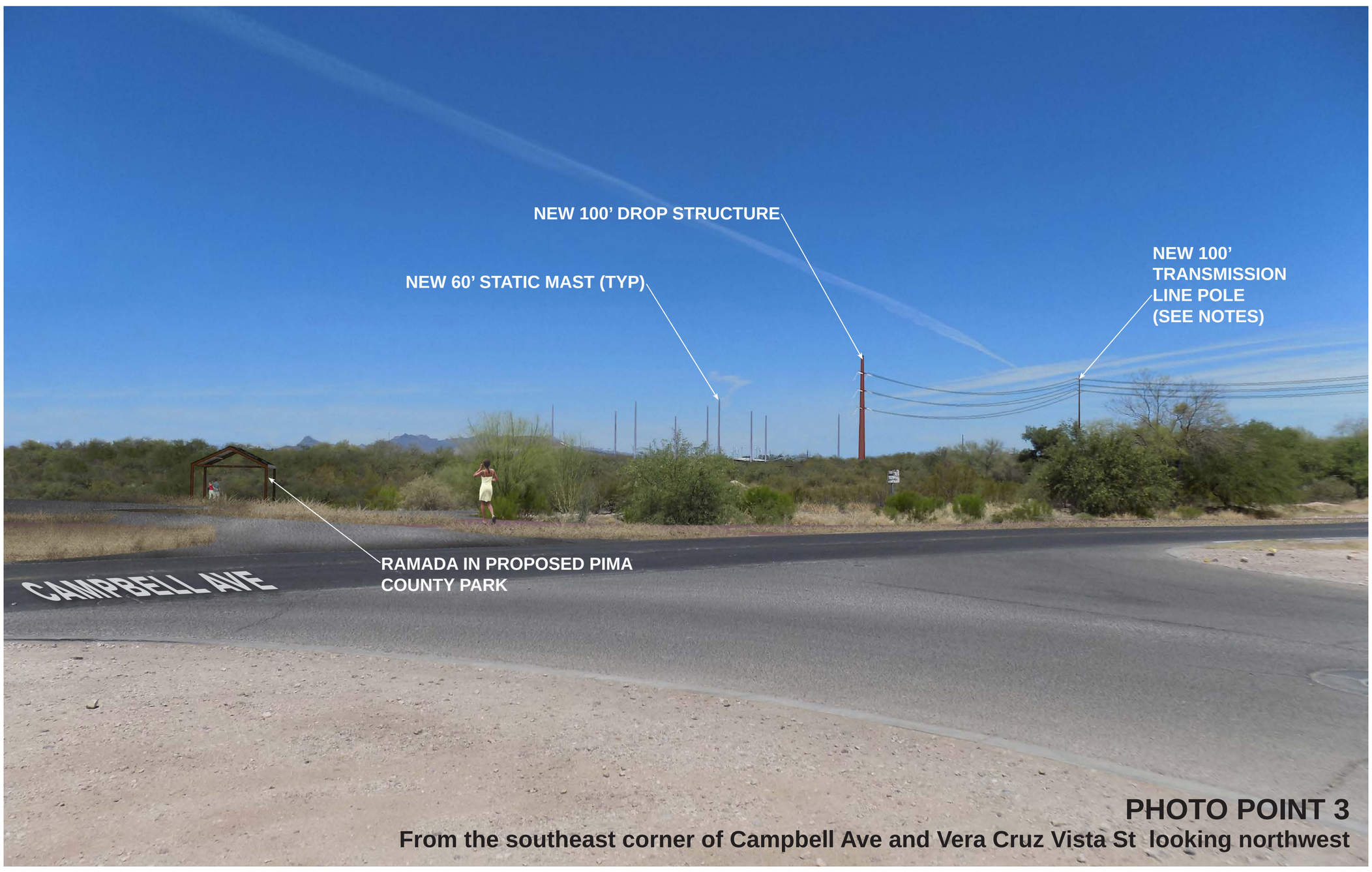


PHOTO POINT 3
From the southeast corner of Campbell Ave and Vera Cruz Vista St looking northwest

KINO SUBSTATION

NOTE: For Representational Purposes Only. Exact Facility Locations and Materials To Be Determined.

Tucson Electric Power

EXISTING CONDITIONS

PHOTO POINT 4
From the multi-use path adjacent to Bridges PAD looking east

PROPOSED CONDITIONS

PHOTO POINT 4
From the multi-use path adjacent to Bridges PAD looking east

KINO SUBSTATION

NOTE: For Representational Purposes Only. Exact Facility Locations and Materials To Be Determined.