# APS Perryville to Valencia 69kV Powerline Project

Open House

WELCOME!
Please Sign In



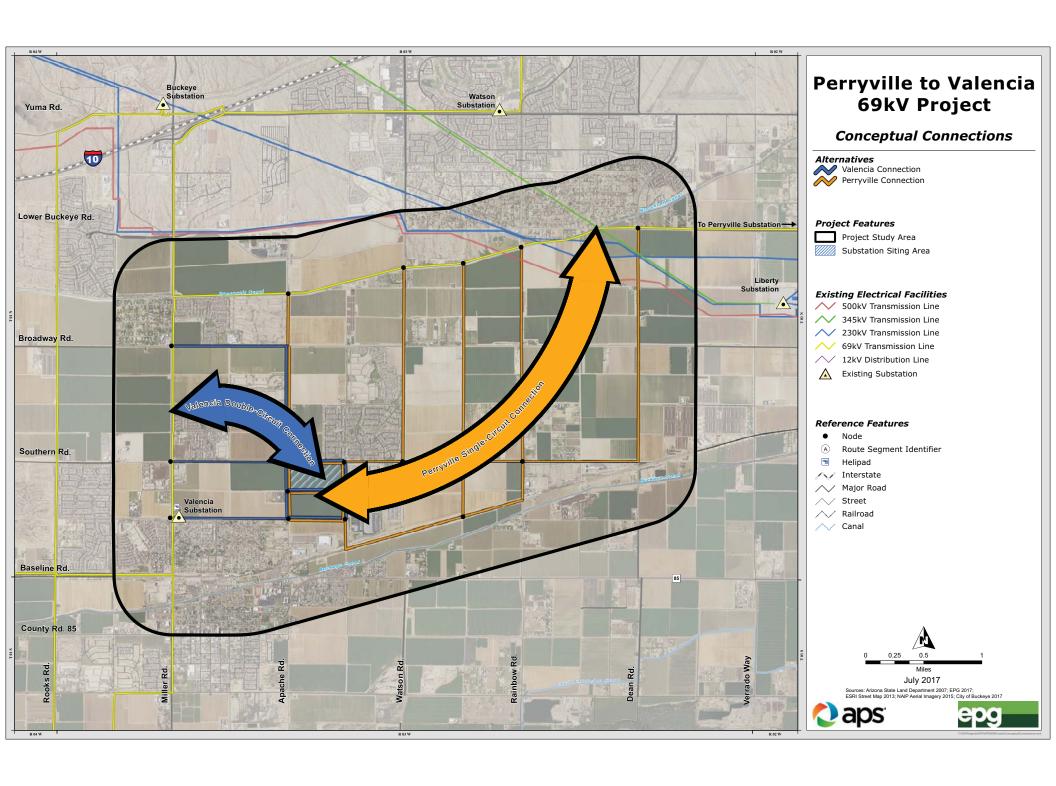
# Project Overview and Need



### **Project Overview**

- Double-circuit 69kV powerline from the planned West Park Substation, near Apache and Southern Roads, to the existing Watson-Valencia 69kV powerline located along Miller Road
- Single-circuit 69kV powerline from the planned West Park Substation to the existing Perryville 69kV powerline located along the Roosevelt Canal
- APS is conducting agency and public involvement outreach as part of their identification of preferred powerline routes



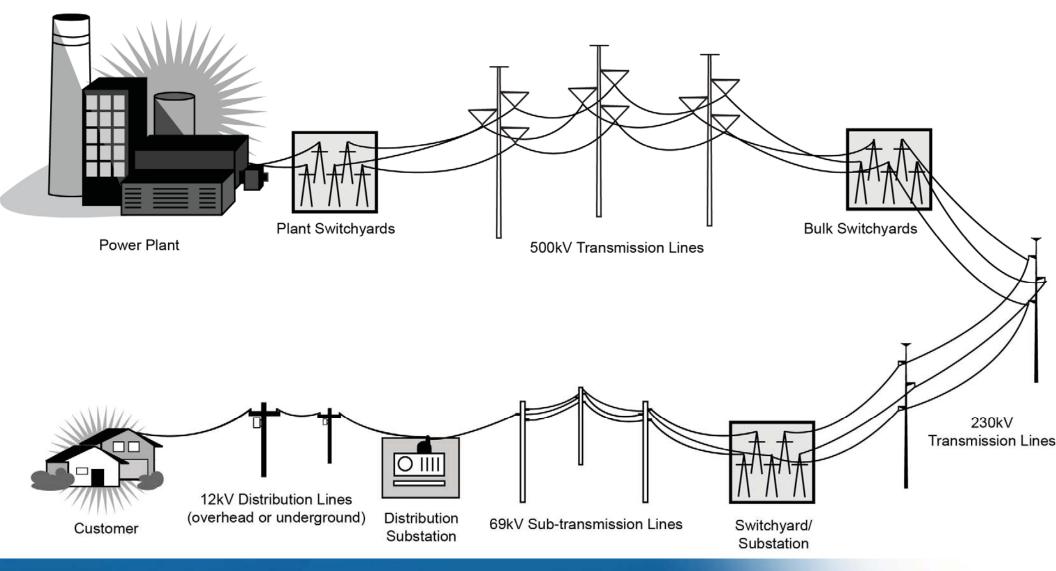


### **Project Need**

- Provide an additional, separate, 69kV power source, allowing the system to serve new development and for increased electricity use within existing developments
- Improve reliability in the area by helping to prevent potential outages that result from the loss of other 69kV powerlines that serve the area
- Provide operating flexibility by creating a new loop and source into the area



# **Electricity From the Power Plant to the Customer**





# Project Description and Design Considerations

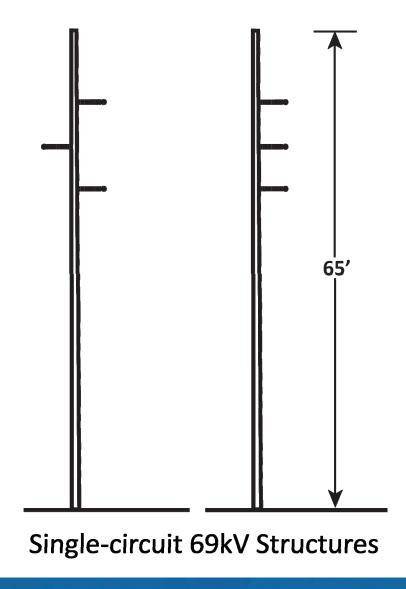


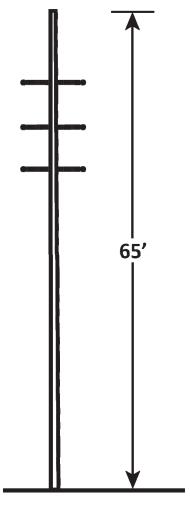
### **Project Description**

- Double-circuit 69kV powerline, approximately 1 to 3 miles in length, from the planned West Park Substation, near Apache and Southern Roads, to the existing Watson-Valencia 69kV powerline located along Miller Road
- Single-circuit 69kV powerline, approximately 2 to 6 miles in length, from the planned West Park Substation to the existing Perryville 69kV powerline located along the Roosevelt Canal
- In-service date summer 2018
- A new line route will require right-of-way or easement up to 40 feet wide
- Will require construction of new steel monopoles approximately 65 feet tall (may include 12kV underbuild)



## **Typical Structures**





**Double-circuit 69kV Structure** 



## **Typical Structures**







# Technical Considerations



## **Electric and Magnetic Fields (EMF)**

#### **Electric Field**

Fields created by voltage on the transmission line that can cause an electric charge to build up on insulated objects near the line. This can create nuisance shocks (much like walking across carpet and touching a door handle) to individuals touching grounded objects near the line.

The standard for maximum electrical field value outside of the powerline right-of-way is 5.0kV/m. The value calculated for this project is less than 0.5kV/m.

#### **Magnetic Field**

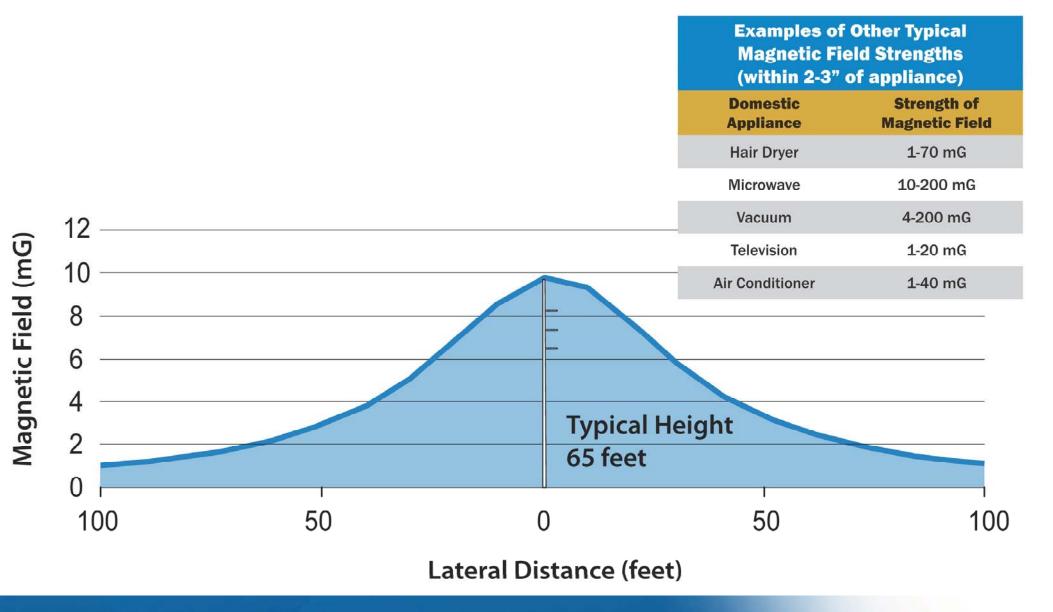
Fields that are created by ALL devices that use, carry, or generate electricity. Magnetic fields drop off dramatically as distance from the source increases. To date, no federal or Arizona state standards have been established for magnetic field levels.

APS recognizes the public concern for magnetic fields and has included those considerations in the design of this project. For this project, the calculated value for magnetic field at the edge of the right-of-way is approximately 9mG.

APS continues to monitor U.S. and international studies regarding EMF, and offers free in-home measurements of EMF levels to all APS customers.



### **Magnetic Fields**





# Planning Process



#### TASK 1

#### Project Start-up

#### TASK 2

#### Preliminary Alternatives Analysis

#### TASK 3

#### Detailed Analysis and Route Comparison



- Finalize purpose and need statement
- · Finalize project description
- · Review and approve study area
- · Participate in agency briefings
- Provide general engineering costs and construction input
- Review and approve preliminary alternatives
- Prepare engineering, construction, operation, and maintenance data
- Identify preferred alternative(s)
- Participate in public open house
- Review and provide input on selected alternative(s)
- Review and approve siting narrative



- · Define study area
- · Prepare study area base map
- Collect and map secondary data for study area

Task 2.1 –
Opportunities and
Constraints Analysis

- Develop preliminary alternatives siting criteria
- Identify environmental opportunities and constraints

Task 2.2 – Preliminary Alternatives Development

• Identify preliminary alternatives

- Collect data for alternatives
- Conduct field surveys to support resource inventory
- · Review route alternatives
- · Participate in public open house
- Identify environmentally preferred alternative(s)
- · Prepare draft siting narrative
- Finalize siting narrative

TASK 4
Public
Involvement

- Conduct community leader briefings
- Develop comment tracking database
- Track and respond to comments
- Prepare and distribute newsletter #1
- Prepare for and conduct public open house meeting #1

 Conduct community leader briefings

- Prepare and distribute newsletter #2
- Prepare for and conduct public open house meeting #2
- Conduct community leader briefings
- Track and respond to comments

TIMELINE

JANUARY - FEBRUARY 2017

JANUARY - APRIL 2017

APRIL - AUGUST 2017

\* Current status of planning process

SCOPE OF WORK



# Steps Completed, and Next Steps in Planning Process

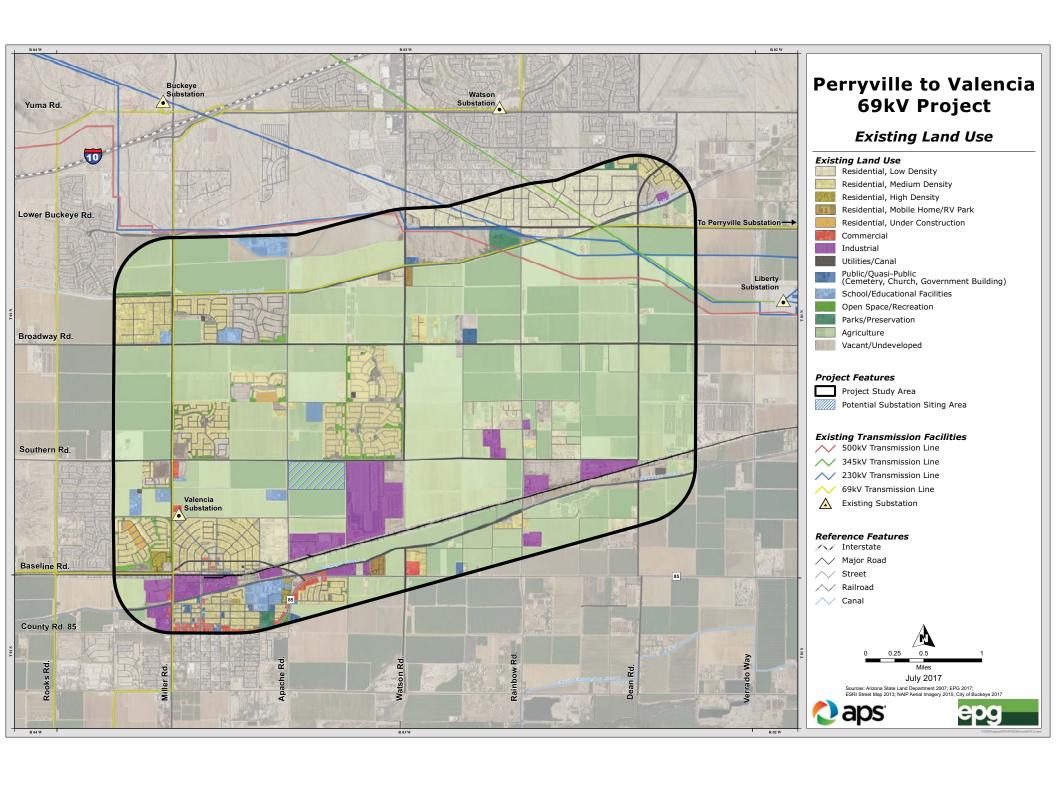
- ✓ Alternative route identification April-May 2017
- ✓ Complete detailed inventory
- √ Impact assessment
- Collect, respond, and document public and agency comments - ongoing
- Alternative route comparison
- Final route selection August 2017

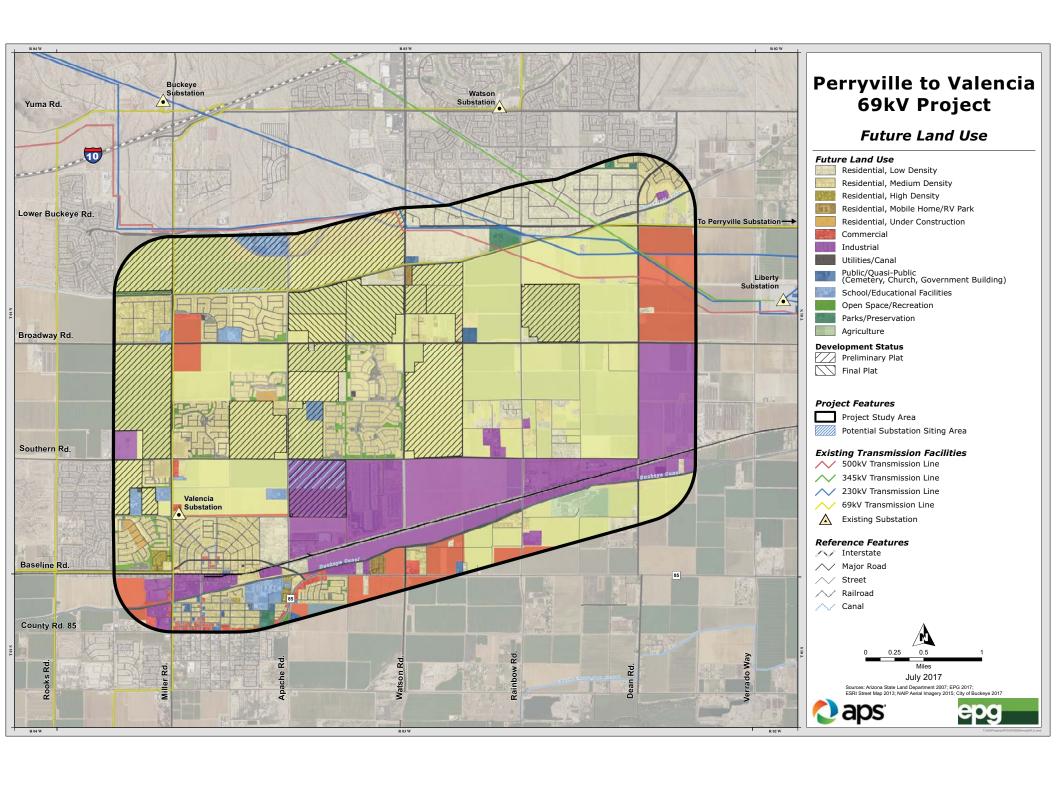


### **Environmental Studies Overview**

- Land Use existing/future land use and jurisdictional planning guidelines
- Visual sensitive viewers (residences, parks, and travel routes)
- Cultural minimal cultural or archaeological sensitivity, based on existing urban development
- Biology minimal sensitive habitat, based on existing urban development







### **Public Comment Summary**

- Approximately 20 comments received to date
- Commenters expressed a preference for placement on existing distribution line rightsof-way, with many comments requesting that the line not be placed along Maricopa Rd.
- Comments included an appreciation for increased reliability in the area; and concerns regarding aesthetics, property values, perceived impacts to health and farming



# **Factors Considered in Route Identification**

- Maximize use of siting opportunities
  - Parallel existing linear features, including roads, powerlines, canals, and drainage facilities
- Minimize impact to sensitive resource areas
  - Avoid densely developed areas to the extent practicable



### **Transmission Line Siting Considerations**

**LAND ACQUISITION:** The ability of APS to obtain the necessary land rights (right-of-way) for the safe construction, operation, and maintenance of the project.

#### REGULATORY APPROVALS:

The ability of APS to obtain the necessary approvals for the construction of the project. These approvals can include a variety of permits from federal, state, and local agencies.

#### PUBLIC COMMENT:

Comments from affected jurisdictions, agencies, property owners, and residents expressing an opinion for the project to be located along a particular route.



**ENVIRONMENTAL:** Impacts the project may have on environmental conditions including land uses, visual resources, cultural resources, and biological resources.

#### COST:

The total cost of the project. Costs include permitting, materials, labor, and land rights necessary to construct the project.

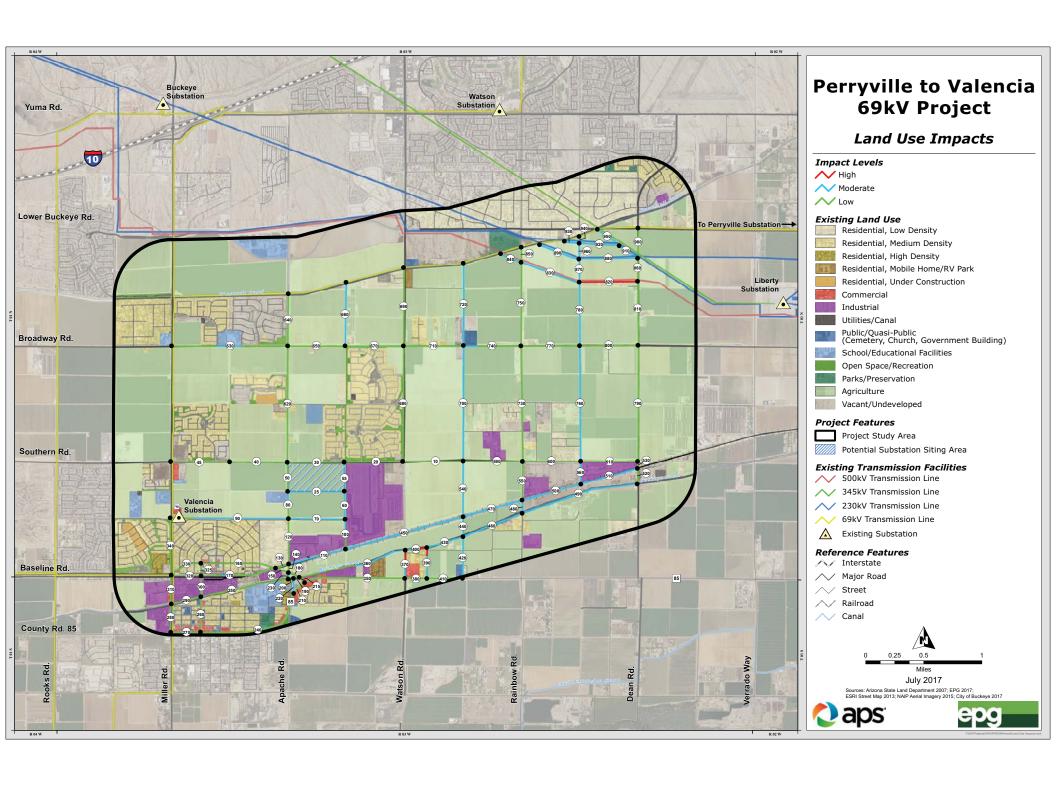
#### ENGINEERING:

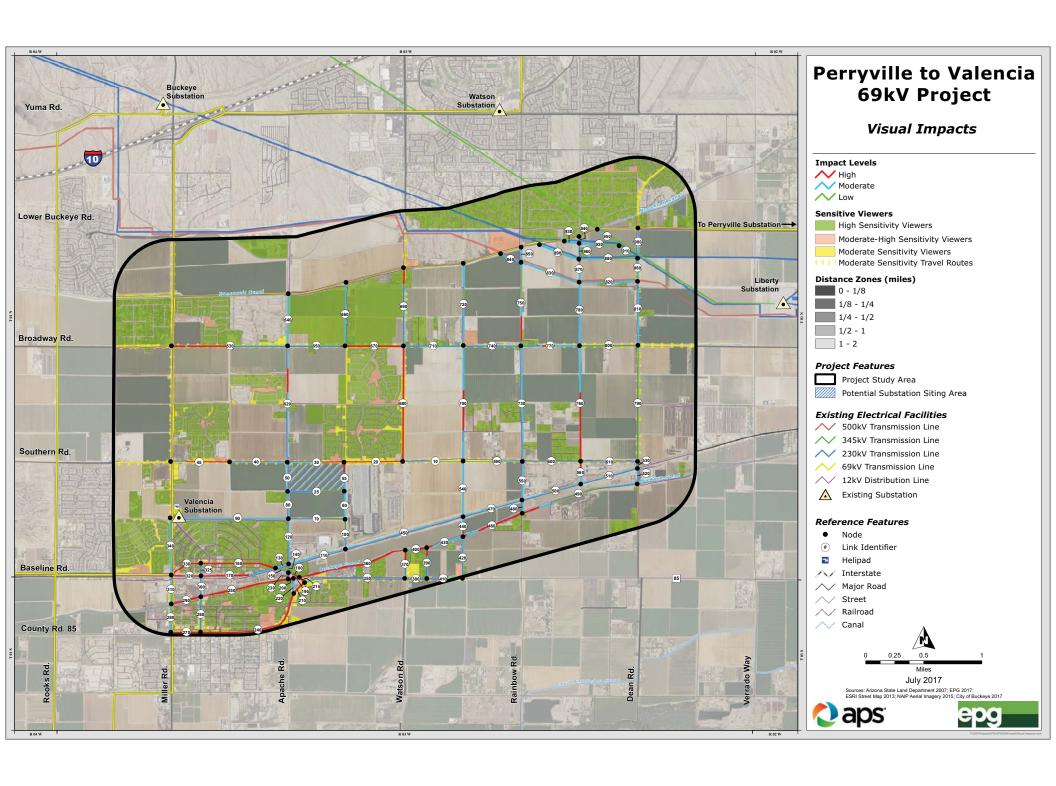
Constraints that represent challenges for the design and construction of the project. Constraints may include routes that lack access, present challenging terrain, or cross large drainage areas.

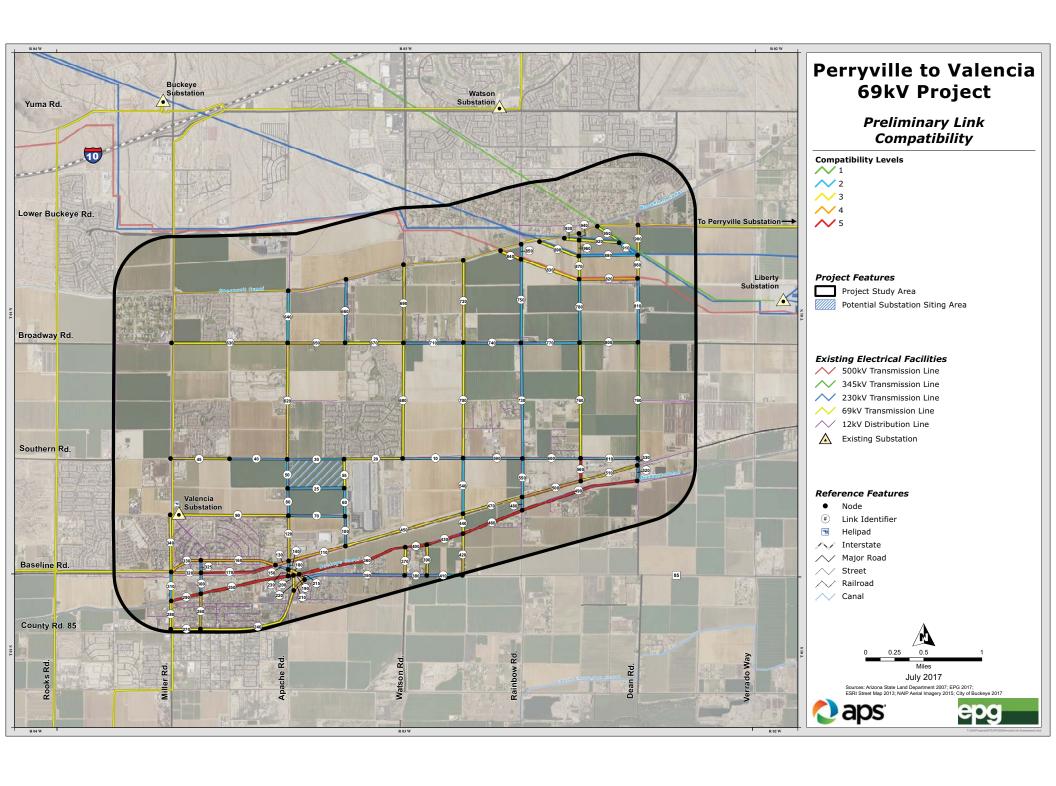


# Impact Assessment



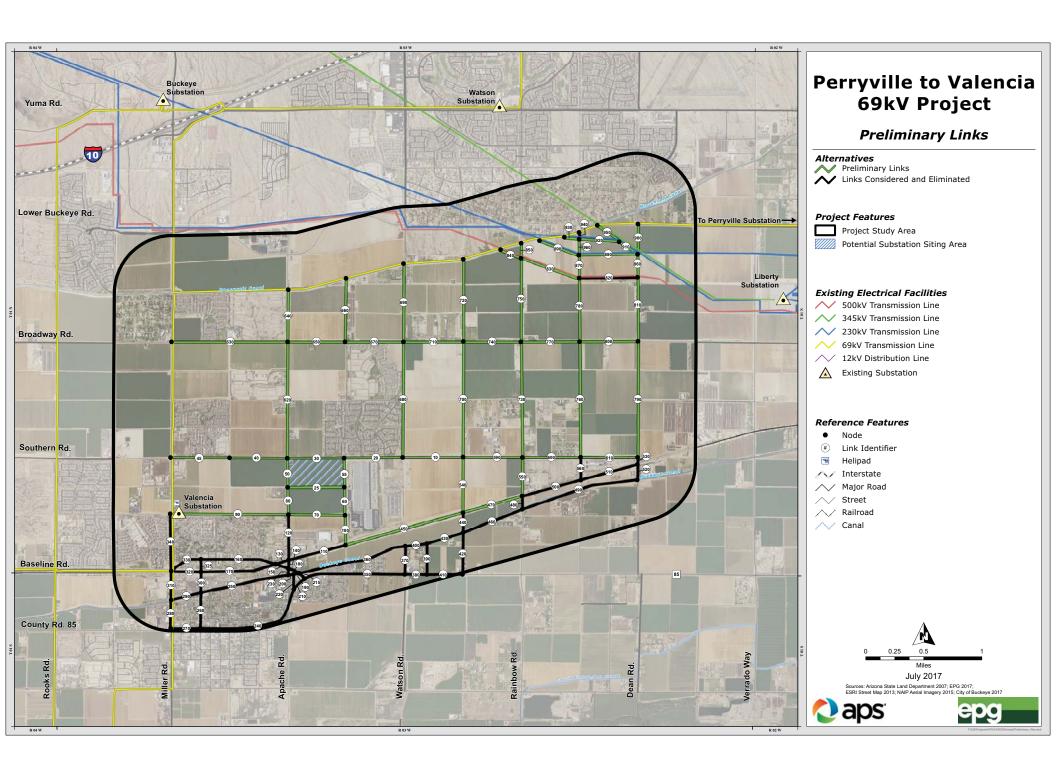


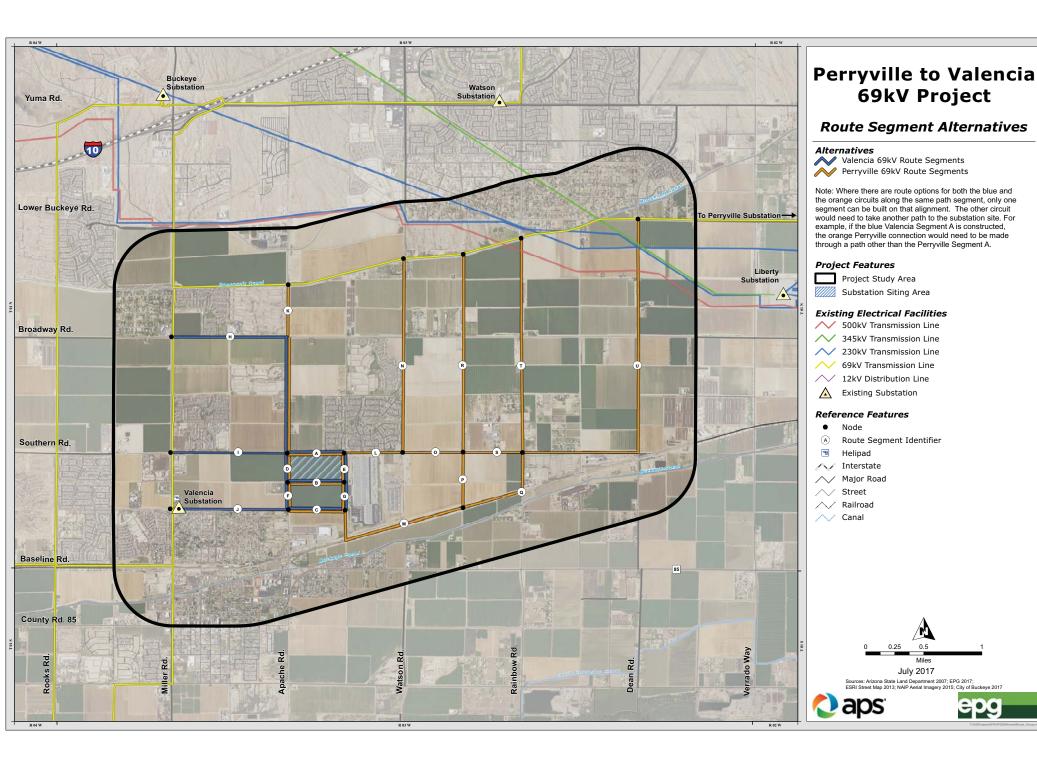




#### APS Perryville to Valencia 69-kV Siting Project Link Comparison Table

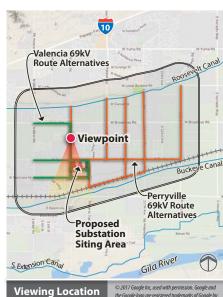
	Link Comparison Table													
69-	Total	Route Segment		Environ	mental Co	-		Engine	ering		Public Comments	Project Compatibility	Recommended Link Status	
kV Link	Length (miles) 0.52	o O	Land Use	Land Use Notes  Agriculture on north and south side of the line.	Visual	Visual Notes	Right-of-Way Notes	ROW	Engineering Notes	Engineering	Three comments in support of using existing ROW along			
			1		2			1.		2)	Southern Rd. One comment supporting siting along north side of Southern Rd., but against using southern side of Southern Rd. One comment against using Southern Rd.	2	Carry forward	
20	0.50	L	1	Riata West Community borders to the north, 20 homes back into the link and 4 border it on their sides.		High impact driven by strong structure contrast within residential 1/8-mile distance zone		1		2	Three comments in support of using existing ROW along Southern Rd. One comment supporting siting along north side of Southern Rd., but against using southern side of	3	Carry forward	
25	0.49	В	3	Bordered by agriculture on the north and south sides. Walmart distribution facility is located on the east side of link.	2		Need easement	2		2	Southern Rd. One comment against using Southern Rd.	2	Carry forward	
30	0.49	A	ì	Bordered by agriculture on the north and south sides. The north side is also bordered by residences from the Riata West Community. 4 homes back into the link and 3 border it on their sides.	4	High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone		i		2	Three comments in support of using existing ROW along Southern Rd. One comment supporting siting along north side of Southern Rd., but against using southern side of	2	Carry forward	
40	0.5	į.	1	North and south of the link is agricultural land.	4	High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone		į.	Rebuild 12kV	,	Southern Rd. One comment against using Southern Rd.  Three comments in support of using existing ROW along Southern Rd. One comment supporting siting along north	2	Carry forward	
45	0.5	1	3.00	South of the link is a majority agricultural land, with one small strip mall on		High impact driven by strong structure contrast within residential 1/8-mile distance zone		*	Rebuild 12kV		side of Southern Rd., but against using southern side of Southern Rd. One comment against using Southern Rd. Three comments in support of using existing ROW along		Carry rotward	
			1	the west end of link. The north side of the link is residential and agricultural land. Miller Manor is the development adjacent to the link on the North. 5 homes directly facing the proposed link and 7 are sided by it.	8	54, 100		1		2	Southern Rd. One comment supporting siting along north side of Southern Rd., but against using southern side of Southern Rd. One comment against using Southern Rd.	3	Carry forward	
	0.25	D	1	Agricultural land surrounds this link on the east and west.  Agricultural land borders this link on the west side, and the Walmart	3	Moderate impact driven by moderate structure contrast within 1/8 and X-mile residential distance zone High impact driven by moderate-strong structure contrast within residential 1/8-mile	Need easement	1 3		2		2	Carry forward	
- 1	0.25	5	3	distribution facility borders it on the east.  Agricultural land borders this link on the west side, and the Walmart distribution facility borders it on the East.	2	distance zone	Need easement	3		2		2	Carry forward	
70 80 90	0.49 0.23 1.02	C F	3	Bordered on the north and south by agricultural land.  Bordered on the east by agricultural land, and a school on the west.  Residential area borders it to the south, and agricultural land to the north. 22	3	Moderate structure contrast within residential/school 1/8-mile distance zone.  Moderate structure contrast within residential 1/8-mile distance zone	Need easement Need ROW	3		3	Seven comments against siting on Maricopa Road.  Seven comments against siting on Maricopa Road.	2 2	Carry forward Carry forward	
	0.26	М	3	homes face the link, and 11 back it. Industrial land bordering it to the east and part of its western border. The remainder of the western side of the link is agricultural land.	3	4	Need easement	3		2		2	Carry forward  Carry forward	
	0.51	-	2.	Has industrial land on the north side of this link, and agricultural and residential land to the south.  This link has residential land to the west of the link with 13 homes facing the	2	Moderate structure contrast within residential 1/8-mile distance zone		4		4		4	Eliminate	
	0.12	-	3	link, and agricultural land to the East.  Has a residential community north of the link with 4 homes facing the link, and one residential property to the south. Constricted by railroad ROW.	3	Moderate structure contrast within residential 1/8-mile distance zone		2.5		3		3	Carry forward Eliminate	
	0.07	7	1	This link has residential properties on both the west and east sides of the link with a single residence on each.	3	Moderate structure contrast within residential 1/8-mile distance zone		2		3		2	Carry forward	
	0.12		1	Has a single residential property on the north side facing the link, and industrial property to the south.  This link is bordered on both the north and south side by residences.	3	Moderate structure contrast within residential 1/8-mile distance zone  High impact driven by strong structure contrast within residential 1/8-mile distance zone		3		3		4	Carry forward Eliminate	
170	0.65		2	Industrial uses are also on the south side. 48 homes face this link. Is bordered to the north by a residential area, and to the south by an industrial area near railroad tracks. 4 homes face the link. Constricted by		High impact driven by strong structure contrast within residential 1/8-mile distance zone		5	Lot of angle poles	3		8	Eliminate	
	0.10	-	1	railroad ROW. Is bordered on the north side by residential property with one home, and to the south by vacant land.		High impact driven by strong structure contrast within residential 1/8-mile distance zone		3		3		3	Carry forward	
200	0.05 0.05 0.13	-	1 1	Industrial land borders it to the south, and vacant to the north.  Industrial land borders it to the south, and vacant to the north.  Vacant land borders its north and west side, and industrial/commercial land		High impact driven by strong structure contrast within residential 1/8-mile distance zone High impact driven by strong structure contrast within residential 1/8-mile distance zone High impact driven by strong structure contrast within residential 1/8-mile distance zone		5 5		3		5 5	Eliminate Eliminate	
	0.06	-	1	to the south and east.  Vacant land on the west side and one commercial site on the east.  Commercial and residential properties on the west side of the link, and a	3	High impact driven by strong structure contrast within residential 1/8-mile distance zone Moderate structure contrast within residential 1/8-mile distance zone		3		3		4	Eliminate	
230	0.06	-	1	variant lot on the east. Two residential buildings are adjacent to the link.  Bordered on the east and west by vacant property.  Bordered on the north and south by commercial properties. 5 homes face the	3	High impact driven by strong structure contrast within residential 1/8-mile distance zone Moderate-strong structure contrast within residential 1/8-mile distance zone		2		3		4	Carry forward Eliminate	
	0.77	*	2	link.  Bordered by industrial property on the north side, and residential to the south as well as a school and library. 20 homes back up to the link as does one high	4	Moderate-strong structure contrast within residential 1/8-mile distance zone  High impact driven by strong structure contrast within residential 1/8-mile distance zone		3		3		3	Carry forward Eliminate	
260	0.30	-	2	as well as a school and library. 20 nomes back up to the link as does one right school.  Bordered on both the east and west by residential properties, with several commercial properties.	3	Moderate structure contrast within residential 1/8-mile distance zone		2		3		3	Carry forward	
	0.24	1	2	commercial properties.  Bordered to the north by commercial properties and to the south by commercial and industrial properties.  Bordered by commercial and industrial properties on the west side of the link.	3	Moderate structure contrast within residential 1/8-mile distance zone  Moderate structure contrast within residential 1/8-mile distance zone		2		3		3	Carry forward	
	0.24		3	Bordered by commercial and industrial properties on the west side of the link. Several commercial and residential properties border the East side. 3 homes face the link. Bordered on the north side by industrial property, and the south by	3	Moderate structure contrast within residential 1/8-mile distance zone  High impact driven by strong structure contrast within residential 1/8-mile distance zone		1		3		3	Carry forward	
	0.26	-	1	Bordered on the north side by industrial property, and the south by residential property 2 homes face the link. Bordered by industrial property linked to the rail road, on both the east and west sides.	3	High impact driven by strong structure contrast within residential 1/8-mile distance zone  Moderate structure contrast within residential 1/8-mile distance zone		5		3		5	Eliminate  Carry forward	
310	0.25	*	1	Bordered by vacant and industrial property with several residential properties on the west side and commercial/industrial property on the east. 2 homes	3	Moderate structure contrast within residential 1/8-mile distance zone		3		3		2	Carry forward	
	0.23	-	1	face the link.  Bordered by industrial property to the south and residential to the north, 7 homes face the link.	5	High impact driven by strong structure contrast within residential 1/8-mile distance zone		3		3		4	Eliminate	
	0.11	5	1	Bordered by residential properties on the east and west sides of the link. 4 homes face this link and 4 homes are sided up against it. To the north and south of the link is a residential community. 22 homes face	3	Moderate structure contrast within residential 1/8-mile distance zone High impact driven by strong structure contrast within residential 1/8-mile distance zone		3		3		2.4	Carry forward Eliminate	
	0.50	-	- 2	this link: Bordered on the east and west by apartment buildings, and homes. 12 homes face the link, and 22 back up to the link.	3	Moderate structure contrast within residential 1/8-mile distance zone		1		3		3	Carry forward	
350	0.87		1	Bordered to the north by several commercial and residential properties.  Bordered to the south by agricultural land and residential properties. 5 homes face this link, 20 homes back up to this link.	3	Moderate structure contrast within residential 1/8-mile distance zone		i		2		ž	Carry forward	
360	0.95		2	Bordered to the north by agricultural land, and to the south by residential homes and several commercial sites. 4 homes are adjacent to this link, with their sides facing the link.		High impact driven by strong structure contrast within residential 1/8-mile distance zone				3		3	Eliminate	
370	0.24	-	2	To the west of the link is agricultural land, and to the east is a combination of commercial and residential lands. 2 homes face this link and one home sides it.	4	High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone		3	Stick to e/s/o road	2		3	Carry forward	
	0.19	-	1.	North of the link is a mix of commercial and residential land with agricultural lands to the south. 2 homes are adjacent to this link, their sides facing.  Bordered on the west by commercial and residential properties (10 homes)	3	Moderate structure contrast within residential 1/8-mile distance zone  High impact driven by moderate-strong structure contrast within residential 1/8-mile		1		2		2	Carry forward	
	0.19	-	2	and to the east by agricultural lands. 5 homes face this link.  Bordered by agricultural lands, and to the south by commercial and residential lands. 2 homes back up to the link.	4	distance zone High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone		3		3		3	Carry forward Eliminate	
	0.31	:	2	Bordered on the north and south sides by agricultural land, and crosses in front of a church.  Bordered on the west by one residence, a church, and agricultural lands, and	3	Moderate structure contrast within residential 1/8-mile distance zone  Moderate structure contrast within residential 1/8-mile distance zone		1		2		2	Carry forward	
	0.32	-	2	Bordered on the north by agricultural land, and the south by one residence and agricultural land.	3	High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone		3		3		3	Carry forward  Eliminate	
	0.16	-	1	Surrounded on both sides by agricultural land.	4	High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone		3		2		3	Carry forward	
	0.56	м -	1 2	Bordered to the north by agricultural land and the Walmart distribution facility. To the south it is bordered by agricultural lands.  Bordered to the south by agricultural and residential land and agricultural	3	Moderate structure contrast within residential 1/8-mile distance zone High impact driven by strong structure contrast within residential 1/8-mile distance zone	Canal easement	4		3	-	3	Eliminate	
	0.53	Q	1 1	property to the north. 5 homes back up to this link.  Bordered by agricultural land on both the north and south sides of the link.  Surrounded by agricultural land on both the east and west sides.	3	Moderate structure contrast within residential 1/8-mile distance zone Moderate structure contrast within residential 1/8-mile distance zone	New easement Canal easement	3		4		3 2	Carry forward Carry forward	
	0.53	-	1	Bordered on the north and south by vacant and industrial land, and one residential property that faces the link.  Bordered on the south side by agricultural and vacant land. The north side of	4	High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone		5		4		5	Eliminate	
	0.50		1	the link contains industrial properties.  Bordered on the south side by agricultural and vacant land. The north side of the link contains industrial properties.	2			3		4		3	Eliminate Carry forward	
530	0.13	-	1	Bordered on the east and west side of the link by vacant land.  Bordered on the east and west side of the link by vacant land.	3	Moderate structure contrast within residential 1/4-mile distance zone Moderate structure contrast within residential 1/4-mile distance zone		1		4		2 2	Carry forward Carry forward	
550	0.48	Q.	1	is located on agricultural property immediately east of the Walmart distribution facility. Surrounded by agricultural land. Bordered on the east by an industrial site and the west by agricultural land.	2			3		2		2	Carry forward  Carry forward	
	0.19 0.51	5	1	The link has industrial property to the east and vacant land to the west.  Agricultural land to the north and south sides, with several residences to the north. 2 homes face this link.	3	High impact driven by strong structure contrast within residential 1/8-mile distance zone Moderate structure contrast within residential 1/4-mile distance zone		4		2	Three comments in support of using existing ROW along Southern Rd. One comment supporting siting along north	2	Eliminate  Carry forward	
600	0.50	U		Residential and agricultural lands on its northern side, and vacant/industrial		Moderate structure contrast within residential 1/4-mile distance zone					side of Southern Rd., but against using southern side of Southern Rd. One comment against using Southern Rd. Three comments in support of using existing ROW along		- 45 	
			1	fands on its southern side. 7 homes face the link.	3			1		3	Southern Rd. One comment supporting siting along north side of Southern Rd., but against using southern side of Southern Rd. One comment against using Southern Rd.	2	Carry forward	
610	0.49	u	1	Industrial land on its southern side, and agricultural land on its northern side.	3	Moderate structure contrast within residential 1/4-mile distance zone		1:	12kV south side	3	Three comments in support of using existing ROW along Southern Rd. One comment supporting siting along north side of Southern Rd., but against using southern side of	2	Carry forward	
	1.00	н,к	2	To the west is agricultural land with some residences. To the east is more agricultural land and residences. 8 homes face this link.	4	High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone		1	12kV west side	3	Southern Rd. One comment against using Southern Rd.	3	Carry forward	
	0.99	Н	2	To the south it borders agricultural land, and to the north is a high school and residential development. 18 homes back up to the link and 1 school faces the link.	š	High impact driven by strong structure contrast within residential 1/8-mile distance zone		1	12kV south side	3		3	Carry forward	
	0.45	К	1	To its west it is bordered by agricultural land, a school, and a residential development under construction. To the east it is bordered by agricultural lands.	3	Moderate structure contrast within residential 1/4-mile distance zone		1	*20	3		2	Carry forward	
	0.49		1	This link has agricultural land on the north side of it, and one residence to the south, which faces the line.  Has agriculture and residential bordering it to the east and west. 1 home	4	High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone  Moderate structure contrast within residential 1/4-mile distance zone		1 3	12kV south side	2		3	Carry forward	
	0.50	5	2	borders the link.  Has agriculture to the north and a residential development to the south, 26 homes back up to the link.	8	High impact driven by strong structure contrast within residential 1/8-mile distance zone		1	Rebuild 12kV	3		3	Carry forward	
	0.99	N N	2	Bordered to the west by several residential developments, and agricultural lands to the east. 48 homes back up to this link.  10 homes back up to this link, and 4 homes face it.	5 4	High impact driven by strong structure contrast within residential 1/8-mile distance zone  High impact driven by moderate-strong structure contrast within residential 1/8-mile		1	1	3		3	Carry forward	
	1.00	R	1	. It is bordered on both the east and west by agricultural land. 2 homes face this link.	4	distance zone  High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone		3		2		3	Carry forward	
	0.52	R	1	Bordered on the southern side by agricultural land. To the north are several residences and agricultural land. 7 homes face this link.  To the east is agricultural land and the west several residences and	3	Moderate structure contrast within residential 1/8-mile distance zone  Moderate structure contrast within residential 1/4-mile distance zone		1 3		3		2	Carry forward	
730	0.99	T	1	agricultural land.  Bordered by agricultural land and residential land on both the east and west side. 7 homes are immediately adjacent to this link.	3	Moderate structure contrast within residential 1/8-mile distance zone		1		2		2	Carry forward	
	0.50 0.74	T	1	Surrounded by agricultural land on both the north and south side. Surrounded by agricultural land on all sides.	3	Moderate structure contrast within 1/4-mile distance zone High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone		1		2		2	Carry forward  Carry forward	
	1.00	-	2	Agricultural land on the east side of the link, and some residential land on the west side. 4 homes are adjacent to this link.  Agricultural land is located adjacent to the link on the south side, as well as to	5	High impact driven by strong structure contrast within residential 1/8-mile distance zone	Good row to	3	12kV west side 12kV rebuild	2		3	Carry forward	
	0.55	-	1	the north with residences as well. 3 homes face this link.  Agricultural land located on both the west and east side of this link. It runs	4	High impact driven by moderate-strong structure contrast within residential 1/8-mile distance zone  Moderate structure contrast within 1/4-mile distance zone	work in	3	on south side	2.		2	Carry forward	
790	1.00	U	1	through the middle of several agricultural parcels. 3 homes are adjacent to this link.  Agricultural land on the west side of the link with one residence and 2 residences on the east side of the link.	3		Good ROW to	3	12kV west	2		1	Carry forward	
	0.50	Ü	1	residences on the east side of the link. Bordered by agricultural land on the north and south side of the link. Agricultural land on the west side of the link with one residence and 2	1 3	Moderate structure contrast within 1/8-mile distance zone	work in	1	side	2.		1 2	Carry forward	
	0.50	•	8	residences on the east side of the link face it. This link goes directly through agricultural land and residential property.	3	Moderate structure contrast within 1/8-mile distance zone, co-located with 500kV facility			OH transmissions	3		4	Eliminate	
830	0.53	-	2	Both the north and south sides of the link are occupied by agricultural land.	3	Moderate structure contrast within 1/8-mile distance zone, co-located with SOOkV facility		3	lines near by OH transmissions	3		3	Carry forward	
840	0.17		2	Surrounded by agricultural land.	3	Moderate structure contrast within 1/8-mile distance zone, co-located with 500kV facility		3	lines near by OH transmissions	3		3	Carry forward	
860	0.12	T	1 1	Surrounded by agricultural land. Surrounded by agricultural land on both the east and west sides of the link.	3	Moderate structure contrast within 1/8-mile distance zone Moderate structure contrast within 1/8-mile distance zone		1 3	lines near by	3 4		2 3	Carry forward Carry forward	
	0.18	-	1	Surrounded by agricultural land.	3	Moderate structure contrast within 1/4-mile distance zone		3	OH transmissions lines near by	4		3	Carry forward	
	0.50		1	Surrounded by agricultural land. One residence is adjacent to the line.  This link uses an existing line structure and is surrounded by agricultural land.	2	Moderate structure contrast within 1/8-mile distance zone, , co-located with 230kV facility		3	Rebuild 69kV (Double CKT) Rebuild 69kV	3		2	Carry forward	
	0.34	Ü	1	This link uses an existing line structure and is surrounded by agricultural land.  Surrounded by agricultural land on east and west side.	3	Moderate structure contrast within 1/8-mile distance zone, , co-located with 230kV facility  Moderate structure contrast within residential 1/4-mile distance zone		3	(Double CKT) OH transmissions	3		3	Carry forward  Carry forward	
910	0.19	ŧ	.0	Uses an existing line structure and goes through agricultural land. Is surrounded by agricultural land on north and south sides of the link.	1			3	lines near by OH	2				
920	0.34	-	.1	surrounded by agricultural land on north and south sides of the link.  Has agricultural land on the north and south side. One residence is adjacent to this link on its south side.	1				transmissions lines near by OH transmissions	3		3	Carry forward	
930	0.12	5	-1	this link on its south side.  Uses existing line structures, travels through agricultural land.	3	Moderate structure contrast within 1/8-mile distance zone, , co-located with 230kV facility		-	transmissions lines near by OH transmissions	3			Carry forward	
940	0.06	*	-1	Surrounded by agricultural land.	3	High impact driven by moderate-strong structure contrast within residential 1/8-mile		-	transmissions lines near by OH	3:		3	Carry forward	
950	0.22	*	14	Uses existing line structures passing through agricultural land.	3	distance zone  Moderate structure contrast within 1/8-mile distance zone, co-located with 500kV facility			transmissions lines near by OH transmissions	3		3	Eliminate  Carry forward	
960	0.12	-	740	Two homes and agricultural land are immediately adjacent to the link, one of which faces it.	,	Moderate structure contrast within 1/8-mile distance zone		17/	lines near by OH transmissions	4		3		
			2	Hind 1805 It.	3			- 1	transmissions lines near by	4		3	Carry forward	

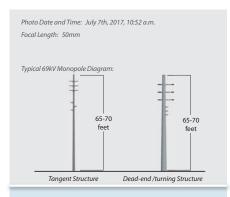












#### Perryville to Valencia 69kV Siting Project

Valencia Route Segment H Simulation

July 2017



Simulations were prepared using information provided by APS. Facility locations, colors, and heights may differ based on final engineering and design.

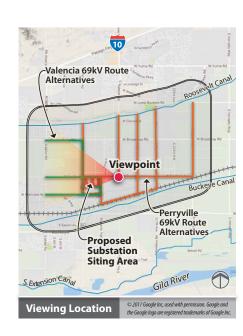


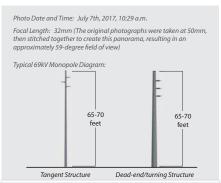




**Simulated Condition** 

View of Perryville Route Segment L, located on the south side of Southern Avenue





#### Perryville to Valencia 69kV Siting Project

Perryville Route Segment L Simulation

July 2017



# Public Comments and Next Steps



### **Public and Agency Outreach**

- City of Buckeye (January, February, and July with City Mayor, Council, and Staff)
- Maricopa County District 4 Supervisor (February)
- Project newsletters (March and July, final newsletter describing the route selection to follow)

Outreach will continue throughout the process.



# Opportunities for Public Information and Comment

- Fill out and return a comment form tonight
- Electronic comment forms and project updates available at: www.aps.com/siting (see Perryville to Valencia 69kV Project under "Current Siting Projects")
- APS Project Manager, Kevin Duncan, can be reached at:1-888-352-4365 or perryvillevalencia@apsc.com
- Media briefings (APS)
- Final route selection expected August 2017

