

APPENDIX A

Proposed Project Details, Schedule, and Route Maps

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Proposed Project Details

Proposed Project Schedule

Proposed Project Route Maps

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Table 1 Total Land Disturbance for Proposed Project with Revised Components Compared to 2013 RTRP EIR

Project Feature	Site Quantity		Work Area Disturbance Calculation (L x W in feet)		Permanent Disturbance Calculation (L x W in feet)		Work Area Disturbance (acres)		Temporary Disturbance (acres)		Permanent Disturbance (acres)	
	2013 EIR	Currently Proposed	2013 EIR	Currently Proposed	2013 EIR	Currently Proposed	2013 EIR	Currently Proposed	2013 EIR	Currently Proposed	2013 EIR	Currently Proposed
Overhead 230-kV Transmission Line												
Guard Structures	16	14	150 x 100	100 x 50	--	--	5.5	1.6	5.5	1.6	--	--
Construct New LST	16	12	200 x 200	200 x 200	84 x 84 ^a	95 x 95 ^a	14.7	11.0	11.5	8.6	3.2	2.5
Construct New TSP	59	47	200 x 100	200 x 100	30-ft radius ^b	30-ft radius ^b	27.1	21.6	23.5	18.5	3.5	3.1
Modify Existing LST	1	1	200 x 200	200 x 200	--	-- ^d	0.7	0.9	0.7	0.9	--	--
230-kV Conductor & optical ground wire (OPGW) Stringing Setup Area – Puller ^e	17	11	300 x 100	300 x 100	--	--	11.7	7.6	11.7	7.6	--	--
230-kV Conductor & OPGW Stringing Setup Area – Tensioner ^e	17	11	400 x 100	400 x 100	--	--	15.6	10.1	15.6	10.1	--	--
230-kV Conductor Field Splice Area ^f	2	2	50 x 50	50 x 50	--	--	0.1	0.1	0.1	0.1	--	--
New Roads (Downline, Access, and Spur)	7.5 miles	4.1 miles	Linear <u>feet</u> x 18 ^g	Linear <u>feet</u> x 18 ^g	Linear <u>feet</u> x 18 ^g	Linear <u>feet</u> x 18 ^g	16.4	8.9	0	0	16.4	8.9
Underground 230-kV Transmission Line												
Construct New Riser Pole	--	4	--	200 x 100	--	30-ft radius ^c	--	1.8	--	1.5	--	0.3
Vault Installation	--	32	--	150 x 100	--	8 x 5 paved 14 x 11 unpaved	--	11.0	--	10.96	--	0.04 ^j
Conduit Duct Bank Installation	--	20,400 feet	--	Linear <u>feet</u> x 30	--	--	--	14.0	--	14.0	--	--
Distribution Lines												
Distribution Pole Removal	23	27	30 x 150	30 x 150	14	14	2.4	2.8	2.3	2.7	0.08	0.1
TSP Riser Pole or Distribution Pole Installation	14	11	30 x 150	30 x 150	15	15	1.4	1.1	1.3	1.1 ⁱ	0.06	0.04 ⁱ
Vault Installation	7	6	30 x 150	30 x 150	4 x 4	4 x 4	0.7	0.9	0.7	0.9	0.003	0.002 ^j
Conduit Duct Bank Installation	4,000 feet	5,850 feet	Linear <u>feet</u> x 30 or 32	Linear <u>feet</u> x 30	--	--	2.7	4.5	2.7	4.5	--	--

APPENDIX A

Project Feature	Site Quantity		Work Area Disturbance Calculation (L x W in feet)		Permanent Disturbance Calculation (L x W in feet)		Work Area Disturbance (acres)		Temporary Disturbance (acres)		Permanent Disturbance (acres)	
Telecommunication Fiber Optic Cables												
Vault Installation	6	22	6 x 6	100 x 50 ^h	--	4 x 4	0.002	0.001 ^h	--	-- ^h	0.002	0.001 ^j
Conduit Duct Bank Installation	3,900 feet	17,700 feet	Linear <u>feet</u> x 1.5	Linear <u>feet</u> x 30 ^h	--	--	--	-- ^h	--	-- ^h	--	--
Fiber Optic Cable Pulling Site	6	6	40 x 60	40 x 60	--	--	0.3	0.3	0.3	0.3	--	--
Substation												
Wildlife Substation	1 (3 acres)	1 (3 acres)	--	--	--	--	3	3	--	--	3	3
Marshalling Yards												
Yard-1 - Material and Equipment Marshalling Yard ^k	1 (15 acres)	1 (15 acres)	--	--	--	--	--	--	--	--	--	--
Yard-2 - Material and Equipment Marshalling Yard ^k	1 (4 acres)	1 (5.5 acres)	--	--	--	--	--	--	--	--	--	--
Sum of Estimated Disturbance Acreage^l							3.302	3.301	0.3	0.3	3.002	3.001

- Notes:
- ^a Assumes permanent disturbance is comprised of the 45-foot-wide by 45-foot-long footprint for each LST and clearance of vegetation within 25 feet of the tower footprint inside the ROW (approximately 0.2 acre per LST). As each tower's actual permanent footprint varies with tower height and strength level, these values will adjust with final engineering.
 - ^b Assumes permanent disturbance is comprised of the 10-foot diameter footprint for each TSP and clearance of vegetation within 25 feet of the TSP inside the ROW (approximately 0.06 acre per TSP). As each TSP's actual permanent footprint varies with TSP height and strength level, these values will adjust with final engineering.
 - ^c A riser pole is assumed to have the same permanent disturbance as a TSP.
 - ^d This structure has pre-existing permanently disturbed area for ongoing operations and maintenance access by SCE
 - ^e Based on 9,000 feet conductor reel lengths, number of circuits, and route design.
 - ^f Includes anchoring and dead-end hardware and/or equipment needed to temporarily secure conductor wire to the correct tension.
 - ^g Based on length of road in miles x road width of 14 feet with 2 feet of shoulder on each side of road.
 - ^h The telecommunications fiber optic cables would be installed at the same time as and within the same duct banks the underground 230-kV transmission lines and the distribution lines. The telecommunication vaults would be installed at the as the vaults for the underground 230-kV transmission lines and the distribution lines. As such, the temporary disturbance would not increase.
 - ⁱ TSP riser poles for distribution line locations 7 and 8 would be placed in locations where existing distribution poles are removed; therefore, there would be no new permanent impact areas. Temporary impact areas for riser pole installation are accounted for in the pole removal disturbance acreage.
 - ^j Permanent impacts would only occur in unpaved areas.
 - ^k Material and Equipment Marshalling Yards to be located in previously disturbed areas.
 - ^l The disturbed acreage calculations are estimates based upon SCE's preferred area of use for the described project feature, the width of the existing ROW, or the width of the proposed ROW; they are subject to revision based upon final engineering and review of the project by SCE's Construction Manager and/or contractor awarded project.

Footing Volume and Area Calculations:

LST depth +/- 60 ft. deep, 4-ft. diameter, qty 4 per LST: earth removed for footing = +/- 28 cu. yds. x 4 = 112 cu. yds.; surface area = 12.57 sq. ft. x 4 = 50.28 sq. ft.

TSP depth +/- 60 ft. deep, 10-ft. diameter, qty 1 per TSP: earth removed for footing = +/- 175 cu. yds.; surface area = 78.54 sq. ft.

APPENDIX A

Proposed Project Details and Route Maps

Proposed Project Details

Proposed Project Schedule

Proposed Project Route Maps

Project Name: Riverside Transmission Reliability Project - DR#7
 Data Date: 01-Jul-17
 Project Finish: 05-Jan-24

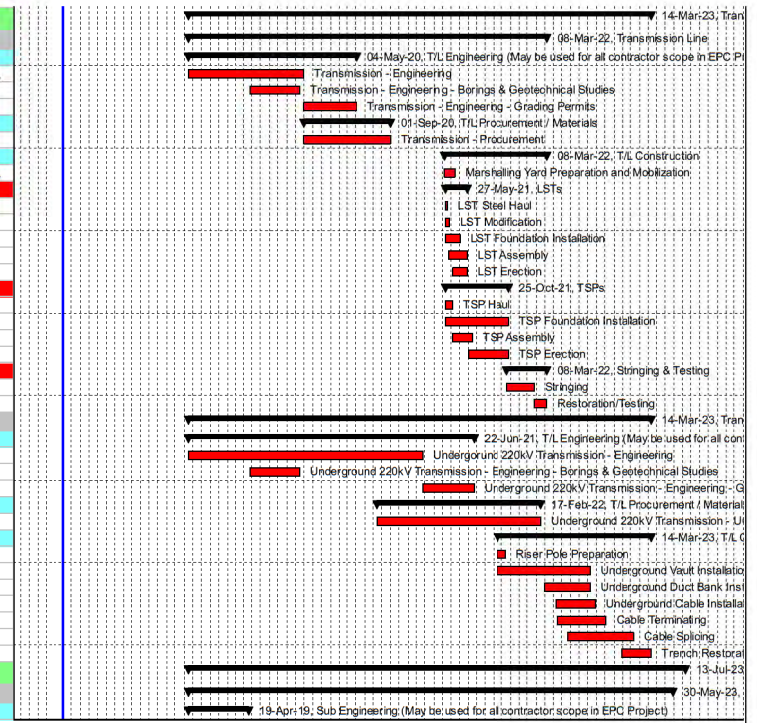
RIVERSIDE TRANSMISSION RELIABILITY HYBRID PROJECT (RTRP)

Project Schedule
 As of 07/25/17

DRAFT

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors	2017				2018				2019				2020				2021				2022				2023				2024			
								Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
Transmission Line (Bulk-Trans, >160kV)							
Transmission Line							
T/L Engineering (May be used for all contractor scope in EPC Project)							
6200	Transmission - Engineering	282	18-Sep-18	30-Oct-19	-634	5600	6420, 5800, 6010, 5950, 6204
6202	Transmission - Engineering - Borings & Geotechnical Studies	126	22-Apr-19	17-Oct-19	-529	6200	6204
6204	Transmission - Engineering - Grading Permits	126	31-Oct-19	04-May-20	-529	6202, 6200	5590, 5810
T/L Procurement / Materials							
6220	Transmission - Procurement	210	31-Oct-19	01-Sep-20	-508		
6220	Transmission - Procurement	210	31-Oct-19	01-Sep-20	-508	5650, 6200	5590, 6270
T/L Construction							
6270	Marshaling Yard Preparation and Mobilization	23	09-Mar-21	15-Apr-21	-634	5950, 5900, 6030, 622	6380, 6280, 6330, 6290,
LSTs							
6290	LST Steel Haul	6	15-Mar-21	22-Mar-21	-234	6270	6300
6380	LST Modification	10	15-Mar-21	26-Mar-21	-190	6270	
6280	LST Foundation Installation	36	15-Mar-21	03-May-21	-216	6270	
6300	LST Assembly	43	23-Mar-21	27-May-21	-234	6290	6310
6310	LST Erection	36	08-Apr-21	27-May-21	-234	6300	
TSPs							
6330	TSP Haul	17	15-Mar-21	06-Apr-21	-634	6270	6340
6320	TSP Foundation Installation	158	15-Mar-21	25-Oct-21	-338	6270	
6340	TSP Assembly	51	07-Apr-21	17-Jun-21	-634	6330	6350
6350	TSP Erection	102	02-Jun-21	25-Oct-21	-634	6340	6360
Stringing & Testing							
6360	Stringing	63	20-Oct-21	24-Jan-22	-634	6350	6370
6370	Restoration/Testing	30	25-Jan-22	08-Mar-22	-634	6360	6650
Transmission Line -							
T/L Engineering (May be used for all contractor scope in EPC Project)							
6255	Underground 220kV Transmission - Engineering	567	18-Sep-18	21-Dec-20	-889	5600	6256, 6258, 6257
6256	Underground 220kV Transmission - Engineering - Borings & Geotechnical Studies	126	22-Apr-19	17-Oct-19	-545	6255	6257
6257	Underground 220kV Transmission - Engineering - Grading Permits	126	22-Dec-20	22-Jun-21	-830	6256, 6255	6269
T/L Procurement / Materials							
6258	Underground 220kV Transmission - UG Cable Procurement	400	15-Jul-20	17-Feb-22	-889		6269
T/L Construction							
6309	Riser Pole Preparation	20	16-Sep-21	13-Oct-21	-330	6269	
6269	Underground Vault Installation	224	16-Sep-21	08-Aug-22	-889	6257, 6258	6309, 6279
6279	Underground Duct Bank Installation	110	04-Mar-22	08-Aug-22	-889	6269	6289
6289	Underground Cable Installation	96	13-Apr-22	26-Aug-22	-889	6279	6319, 6299
6319	Cable Terminating	120	15-Apr-22	04-Oct-22	-889	6289	6329
6299	Cable Splicing	159	23-May-22	10-Jan-23	-639	6289	
6329	Trench Restoration/Paving/Testing	72	29-Nov-22	14-Mar-23	-889	6319	6650
Substation							
Mira Loma & Vista							
Sub Engineering (May be used for all contractor scope in EPC Project)							
147	Sub Engineering	147	18-Sep-18	19-Apr-19	-312		



█ Actual Work
 █ Critical Remaining Work
 █ Remaining Work
 ◆ Milestone
 ⇨ Summary

TASK filter: All Activities

Project Name: Riverside Transmission Reliability Project - DR#7
 Data Date: 01-Jul-17
 Project Finish: 05-Jan-24

RIVERSIDE TRANSMISSION RELIABILITY HYBRID PROJECT (RTRP)

Project Schedule As of 07/25/17

DRAFT

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors	2017		2018		2019		2020		2021		2022		2023		1
								Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
6890	Voice Communications for Phones	1	12-May-23	12-May-23	-889	6880	6900															1: Voice Comm
6900	Corp Security DATA transport for Cameras, Card Readers, Etc	1	15-May-23	15-May-23	-889	6890	7060, 7590															1: Corp Securi
Trans Telecom		1102	16-Nov-18	11-Apr-23	-889																	11: Apr-23, Tra
Trans Telecom		1102	16-Nov-18	11-Apr-23	-889																	11: Apr-23, Tra
ECS Engineering		126	16-Nov-18	20-May-19	-445																	
6600	ECS - Engineering	126	16-Nov-18	20-May-19	-445	5600, 6800	6610, 5500, 5800															
ECS Procurement		63	21-May-19	19-Aug-19	-81																	
6610	ECS - Procurement	63	21-May-19	19-Aug-19	-81	6600, 5650	6650, 5590, 6652															
ECS Construction		526	09-Mar-21	11-Apr-23	-889																	
6652	ECS - Construction & Testing - Telecom Routes 2 & 3	105	09-Mar-21	04-Aug-21	-468	5950, 6610, 5900, 603	6860															
6650	ECS - Construction & Testing - Telecom Route 1 - Splicing (Intermittent)	105	07-Nov-22	11-Apr-23	-889	5900, 6610, 6370, 632	6860															
Distribution (<=33kV)		893	22-Mar-19	07-Oct-22	-740																	
Distribution		893	22-Mar-19	07-Oct-22	-740																	
Dist Engineering/Planning		84	22-Mar-19	19-Jul-19	-487																	
6420	Distribution (Transmission Crossings) - Engineering	84	22-Mar-19	19-Jul-19	-487	6200	6430, 5800															
Dist Procurement		84	22-Jul-19	18-Nov-19	-183																	
6430	Distribution (Transmission Crossings) - Procurement	84	22-Jul-19	18-Nov-19	-183	6420, 5650	5590, 6450															
Dist Construction		219	09-Dec-21	07-Oct-22	-740																	
6450	Distribution - Civil (Intermittent)	79	09-Dec-21	22-Mar-22	-740	5900, 6430, 7840	6460															
6460	Distribution - Electrical (Intermittent)	140	23-Mar-22	07-Oct-22	-740	6450	7590															

█ Actual Work █ Critical Remaining Work Summary
 Remaining Work ◆ Milestone

TASK filter: All Activities

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


Proposed Project Route Maps

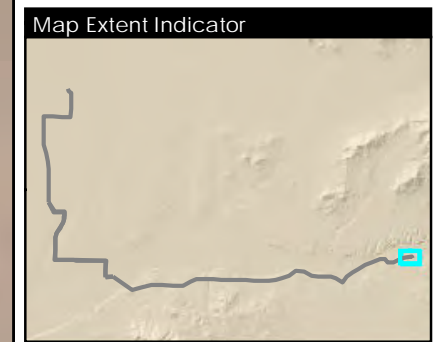
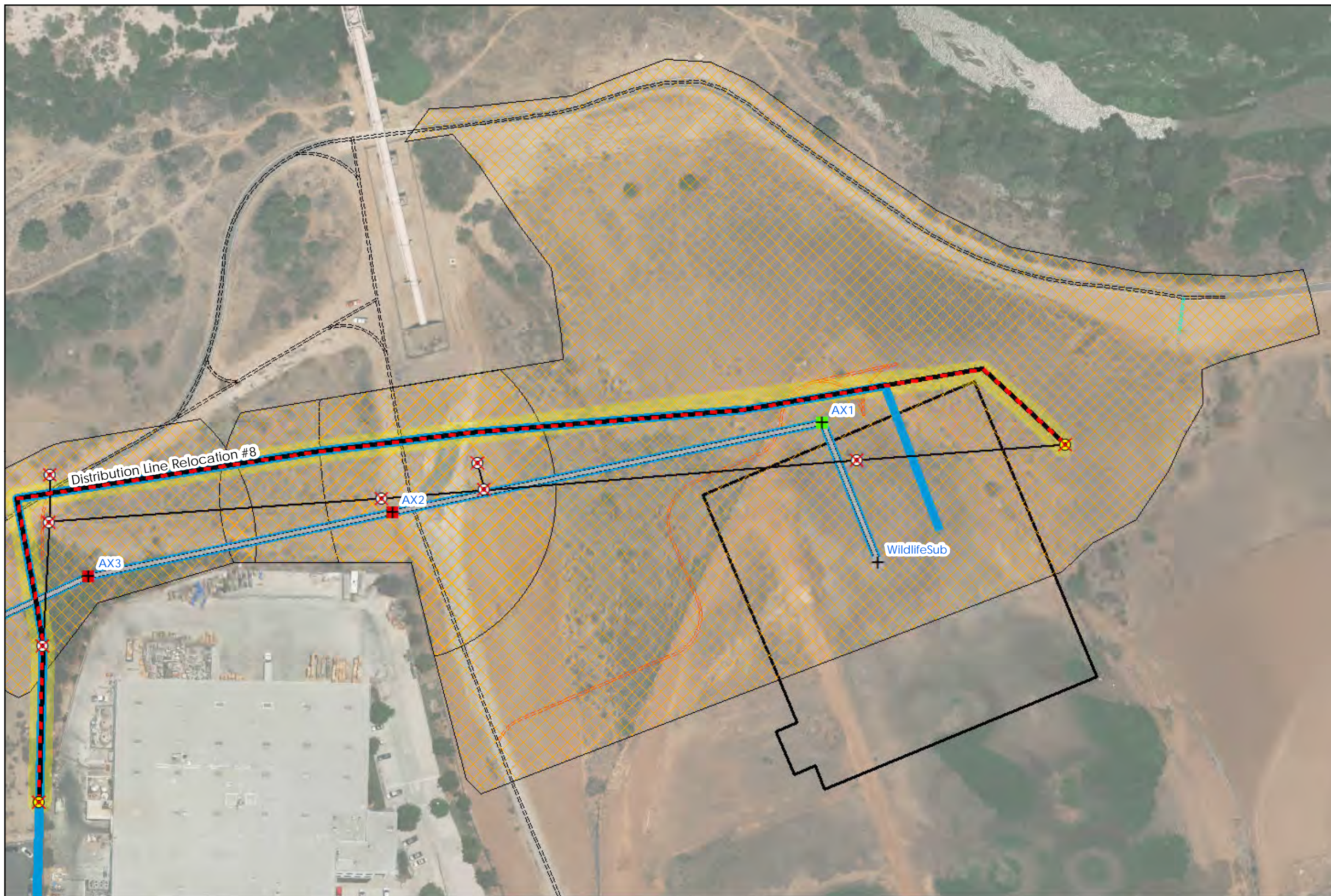
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 1 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Lattice Steel Tower (LST)
-  Rack
-  Existing Pole to be Removed
-  Existing Pole to be Replaced with New Riser Pole
-  Existing Distribution Alignment (Overhead)
-  Revised Distribution Alignment (Underground)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Revised Project Element
-  Existing Access Road
-  New Stub Road (Permanent)
-  Overland Travel (Temporary)
-  GDAD
-  Wildlife Substation Area



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 Date Created: 11/6/2017
















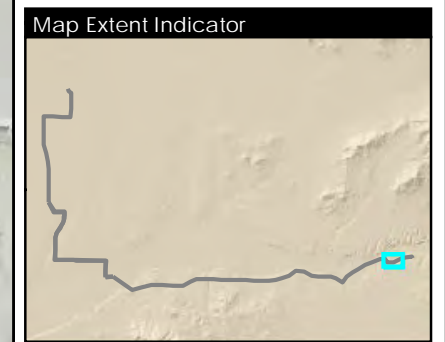
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 2 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Lattice Steel Tower (LST)
-  Existing Pole
-  Existing Pole to be Removed
-  Existing Pole to be Replaced with New Riser Pole
-  Existing Distribution Alignment (Overhead)
-  Revised Distribution Alignment (Underground)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Revised Project Element
-  Existing Access Road
-  New Stub Road (Permanent)
-  GDAD



Scale = 1:1,500







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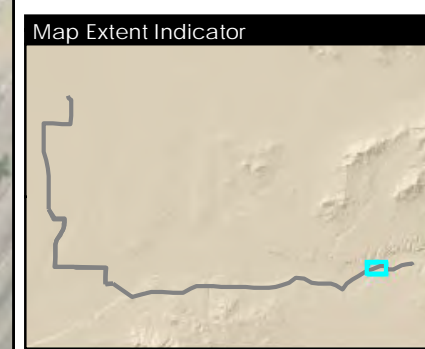
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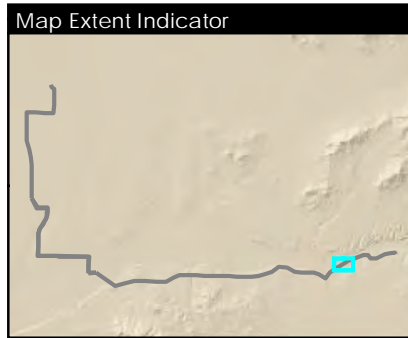
- Legend
-  Tubular Steel Pole (TSP)
 -  Lattice Steel Tower (LST)
 -  Proposed 2013 Alignment (Overhead)
 -  Proposed Telecom Alignment
 -  Existing Access Road
 -  GDAD




Scale = 1:1,500
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 Aerial Imagery: 6/14/2016
 Date Created: 11/6/2017



- Legend
-  Tubular Steel Pole (TSP)
 -  Proposed 2013 Alignment (Overhead)
 -  Proposed Telecom Alignment
 -  GDAD









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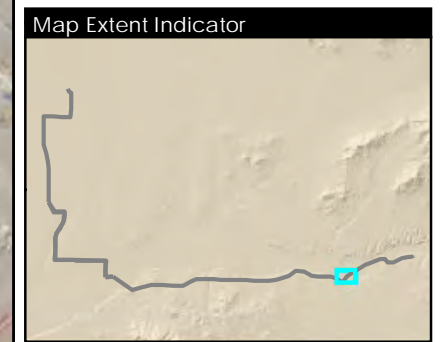
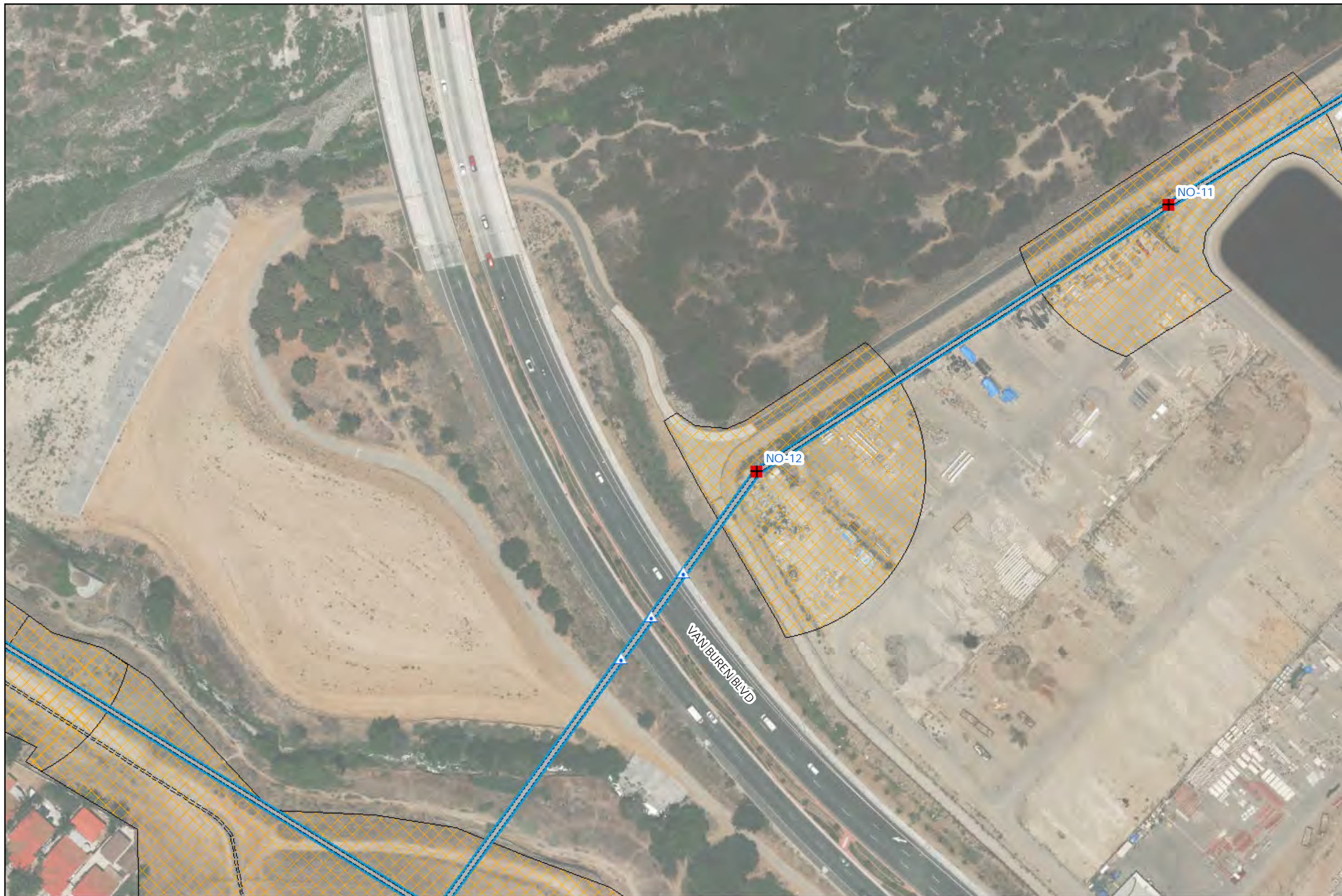
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 5 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Guard Structure
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  GDAD



Scale = 1:1,500

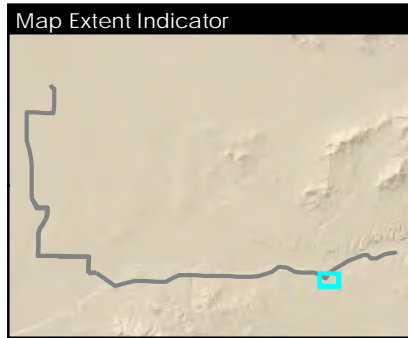


Aerial Imagery: 6/14/2016
Date Created: 11/6/2017





- Legend
- Lattice Steel Tower (LST)
 - Guard Structure
 - Existing Pole
 - Proposed 2013 Alignment (Overhead)
 - Proposed Telecom Alignment
 - Existing Access Road
 - New Stub Road (Permanent)
 - GDAD

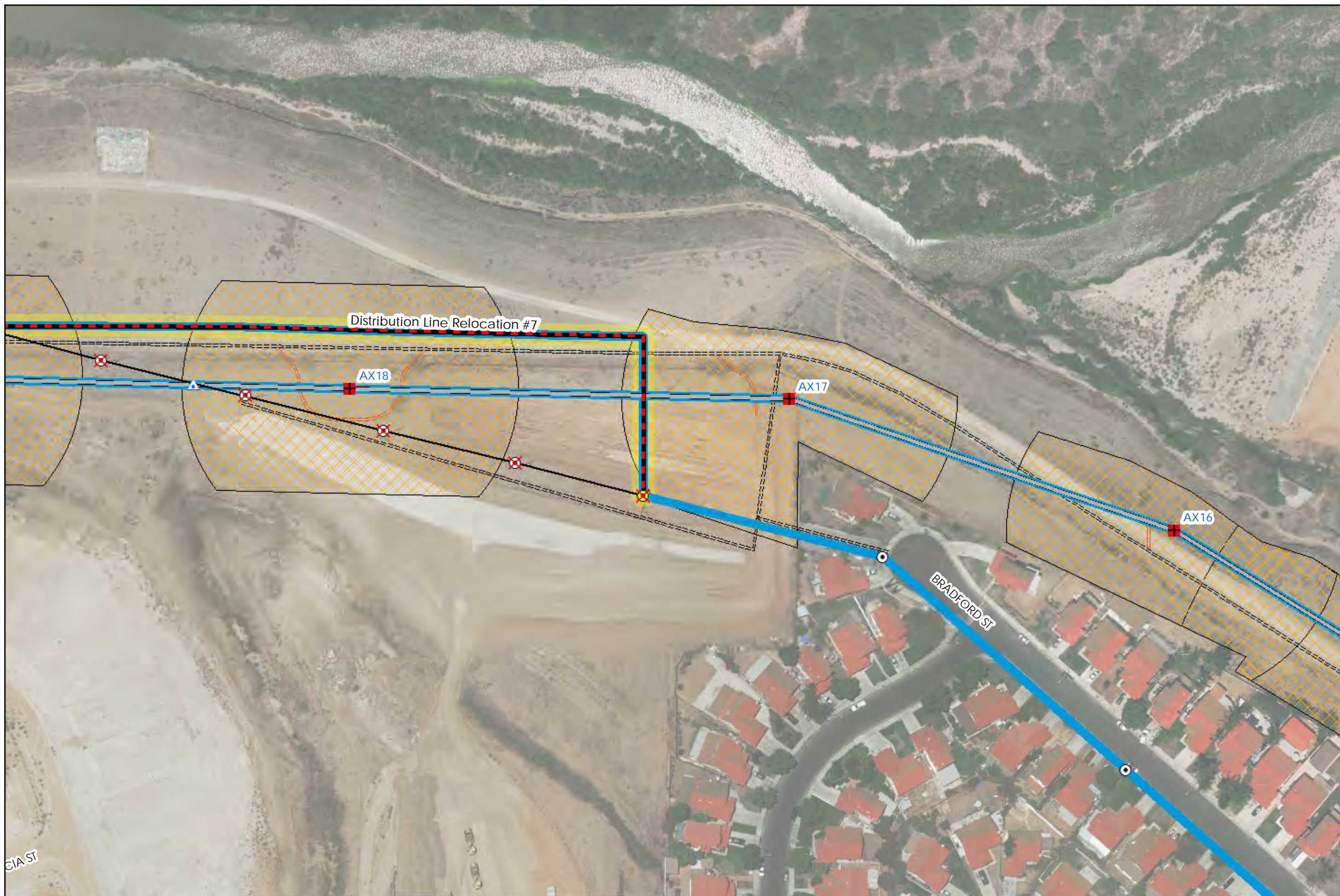


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 Date Created: 11/6/2017

Riverside Transmission Reliability Project

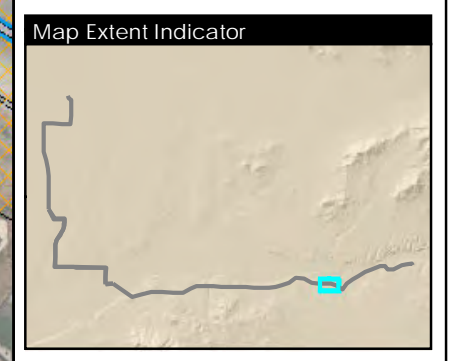
Project Elements(All Elements)
Mapbook

Map 7 of 46

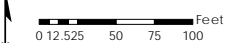


Legend

- Tubular Steel Pole (TSP)
- Guard Structure
- Existing Pole
- Existing Pole to be Removed
- Existing Pole to be Replaced with New Riser Pole
- Existing Distribution Alignment (Overhead)
- Revised Distribution Alignment (Underground)
- Proposed 2013 Alignment (Overhead)
- Proposed Telecom Alignment
- Revised Project Element
- Existing Access Road
- New Stub Road (Permanent)
- GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017



CIA ST

BRADFORD ST

Distribution Line Relocation #7

AX18

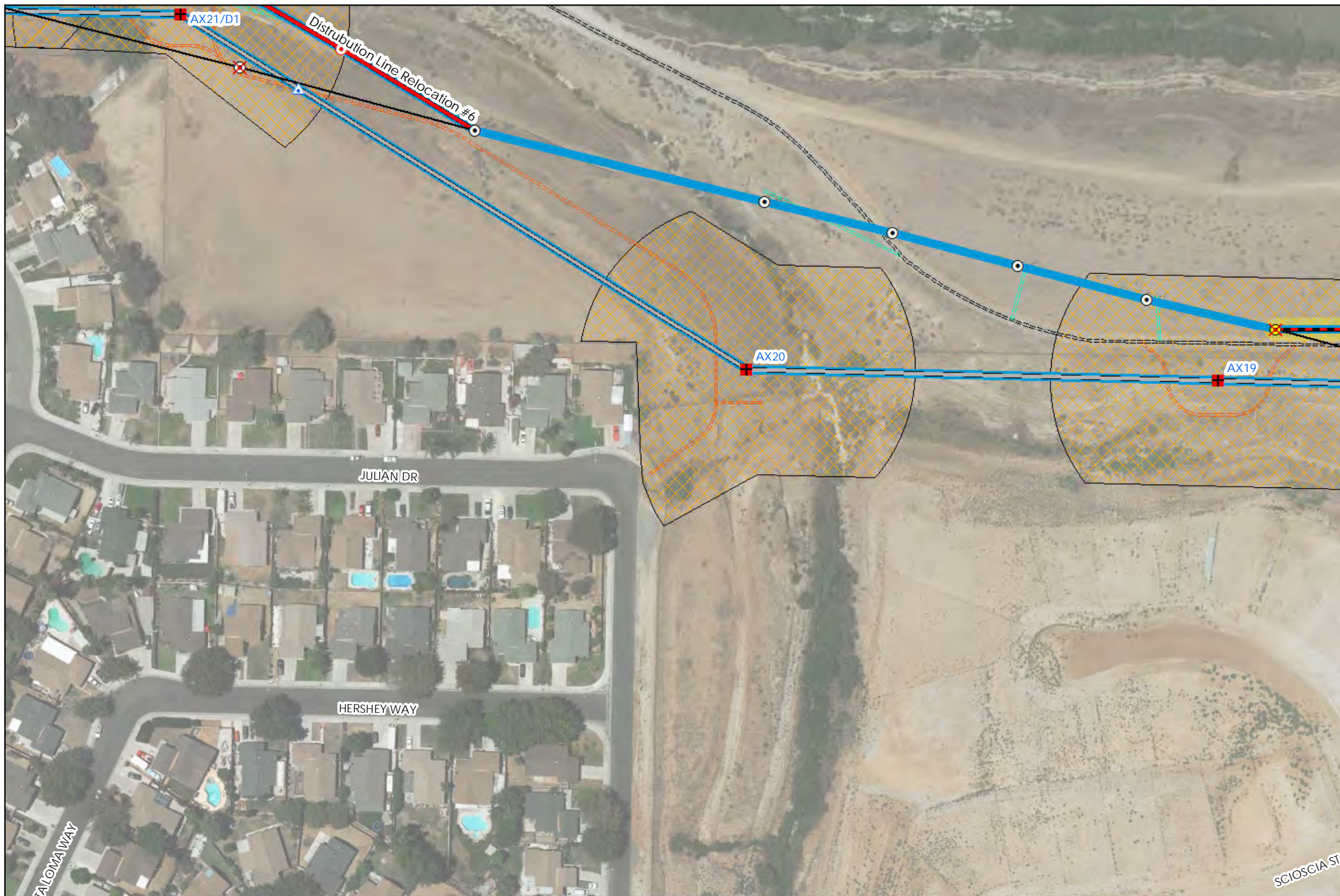
AX17

AX16

Riverside Transmission Reliability Project

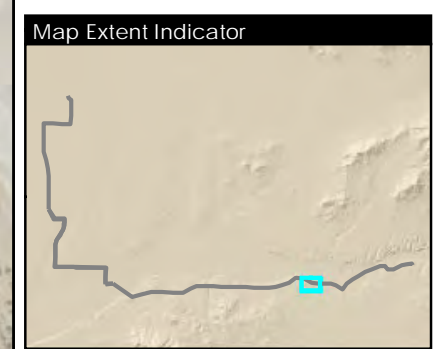
Project Elements(All Elements)
Mapbook

Map 8 of 46

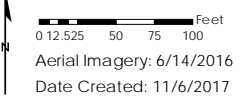


Legend

- Tubular Steel Pole (TSP)
- Guard Structure
- Existing Pole
- Existing Pole to be Removed
- Existing Pole to be Replaced with New Riser Pole
- New Pole
- Existing Distribution Alignment (Overhead)
- Revised Distribution Alignment (Overhead)
- Revised Distribution Alignment (Underground)
- Proposed 2013 Alignment (Overhead)
- Proposed Telecom Alignment
- Revised Project Element
- Existing Access Road
- New Stub Road (Permanent)
- Overland Travel (Temporary)
- GDAD



Scale = 1:1,500

















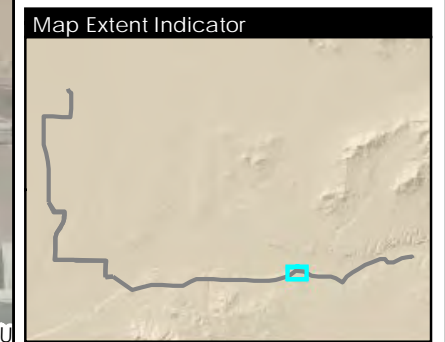
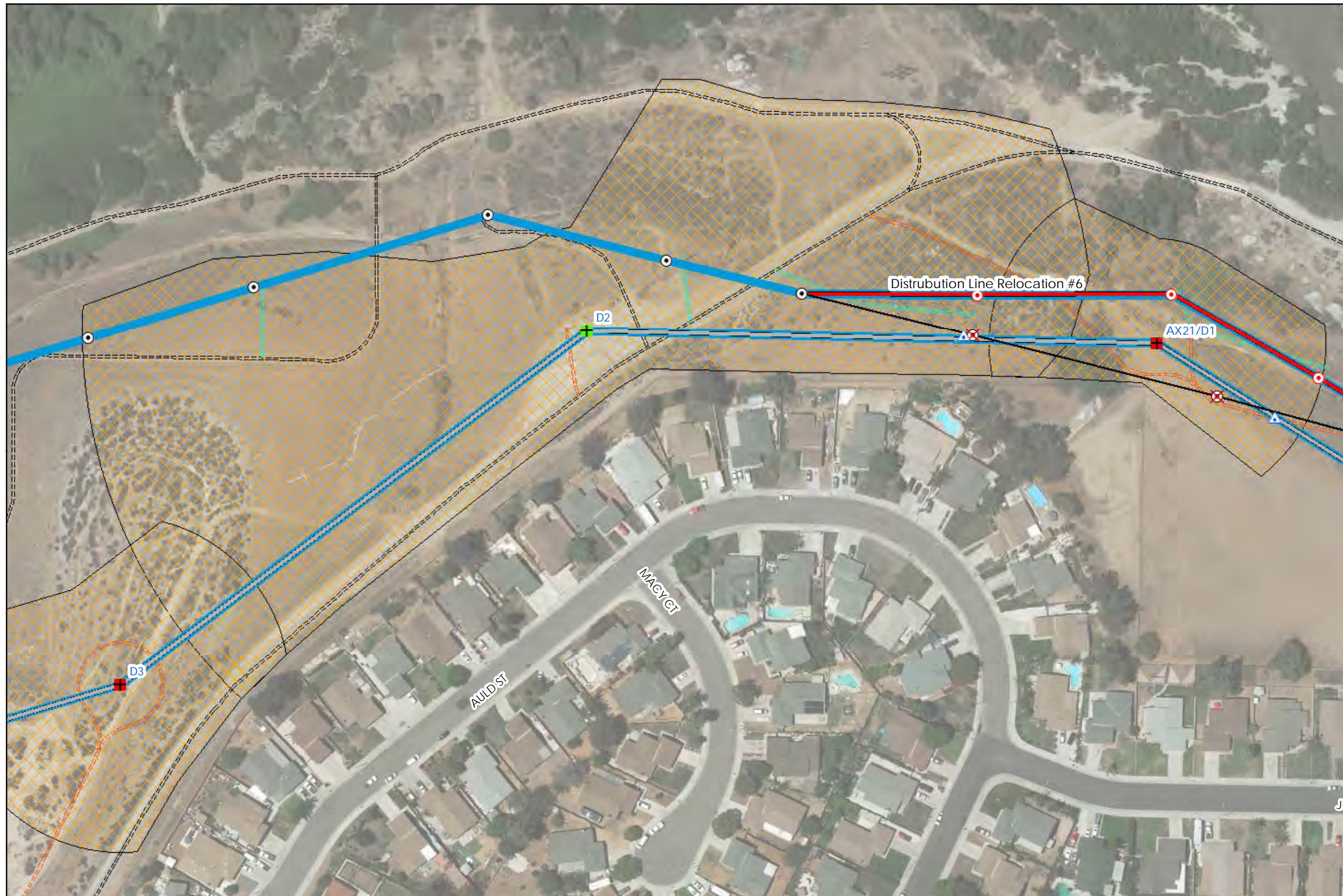
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 9 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Lattice Steel Tower (LST)
-  Guard Structure
-  Existing Pole
-  Existing Pole to be Removed
-  New Pole
-  Existing Distribution Alignment (Overhead)
-  Revised Distribution Alignment (Overhead)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  Overland Travel (Temporary)
-  GDAD



Scale = 1:1,500

0 12.5 25 50 75 100 Feet

Aerial Imagery: 6/14/2016

Date Created: 11/6/2017



PANORAMA

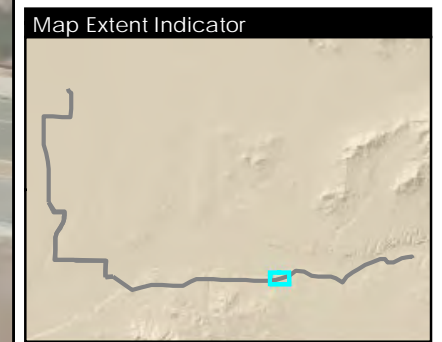
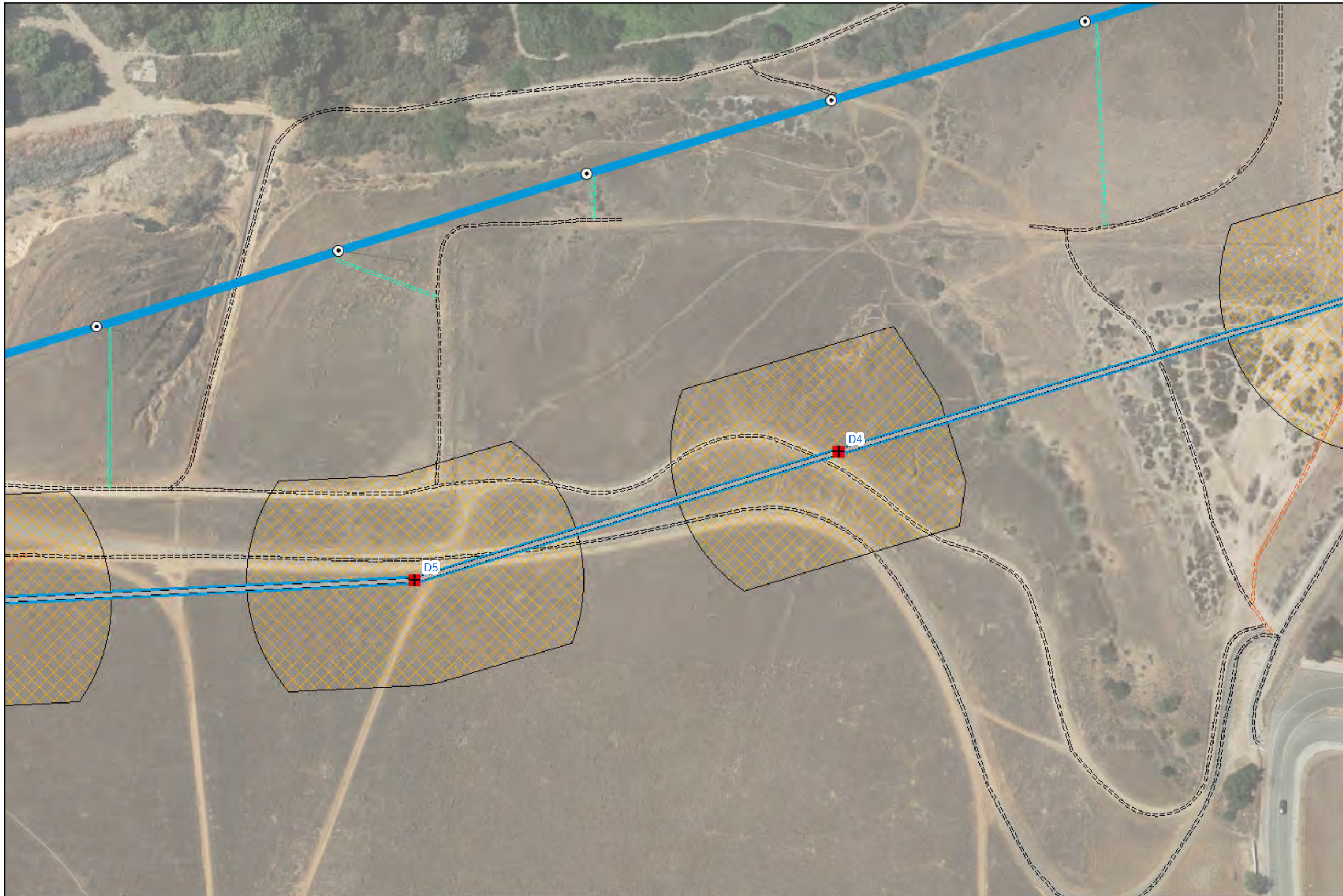
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 10 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Existing Pole
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  Overland Travel (Temporary)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017



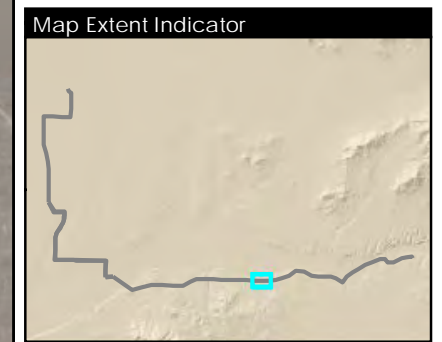
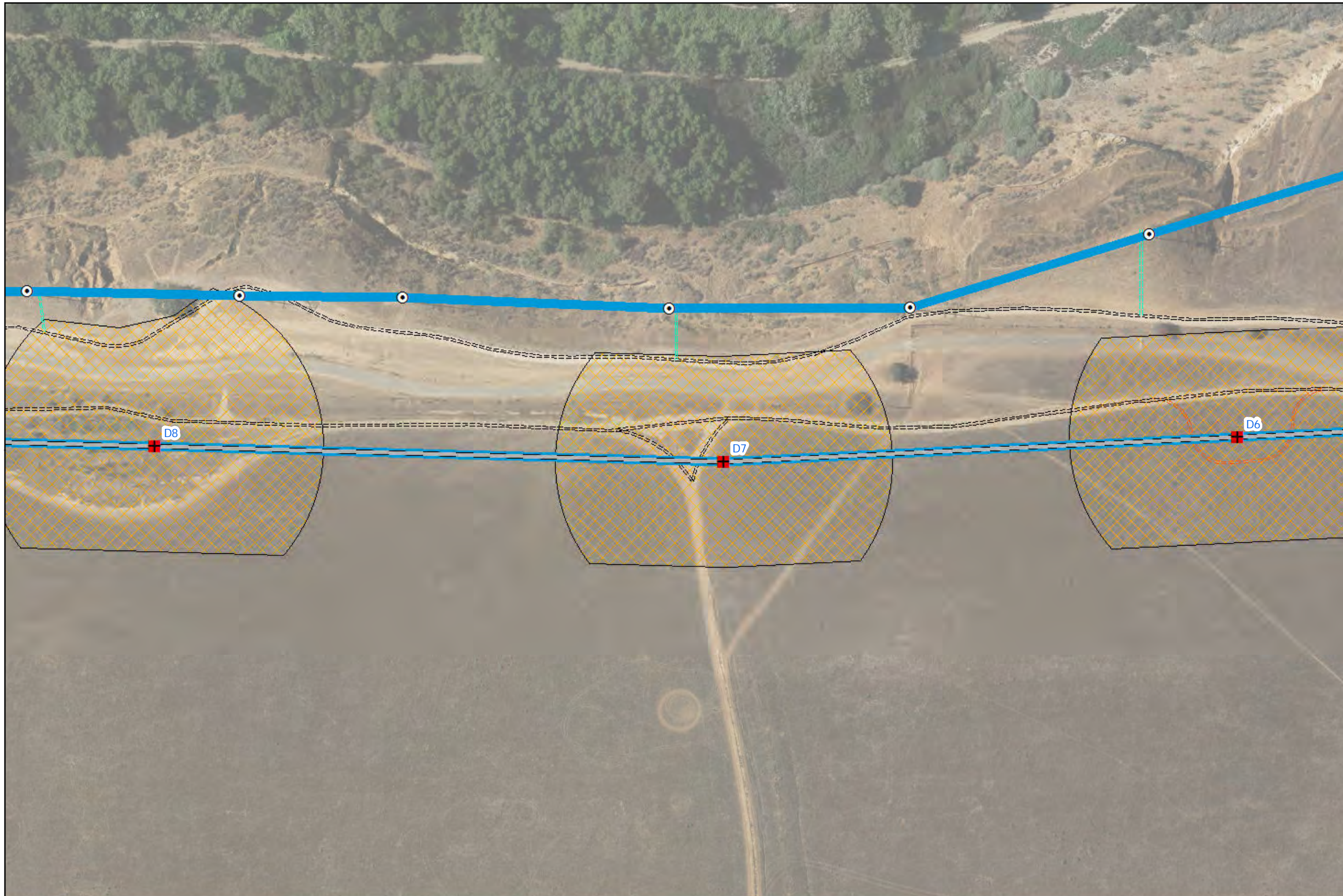
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

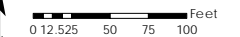
Map 11 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Existing Pole
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  Overland Travel (Temporary)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017










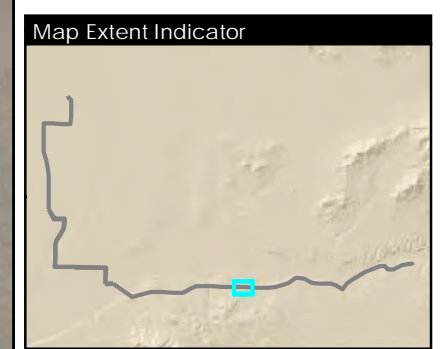
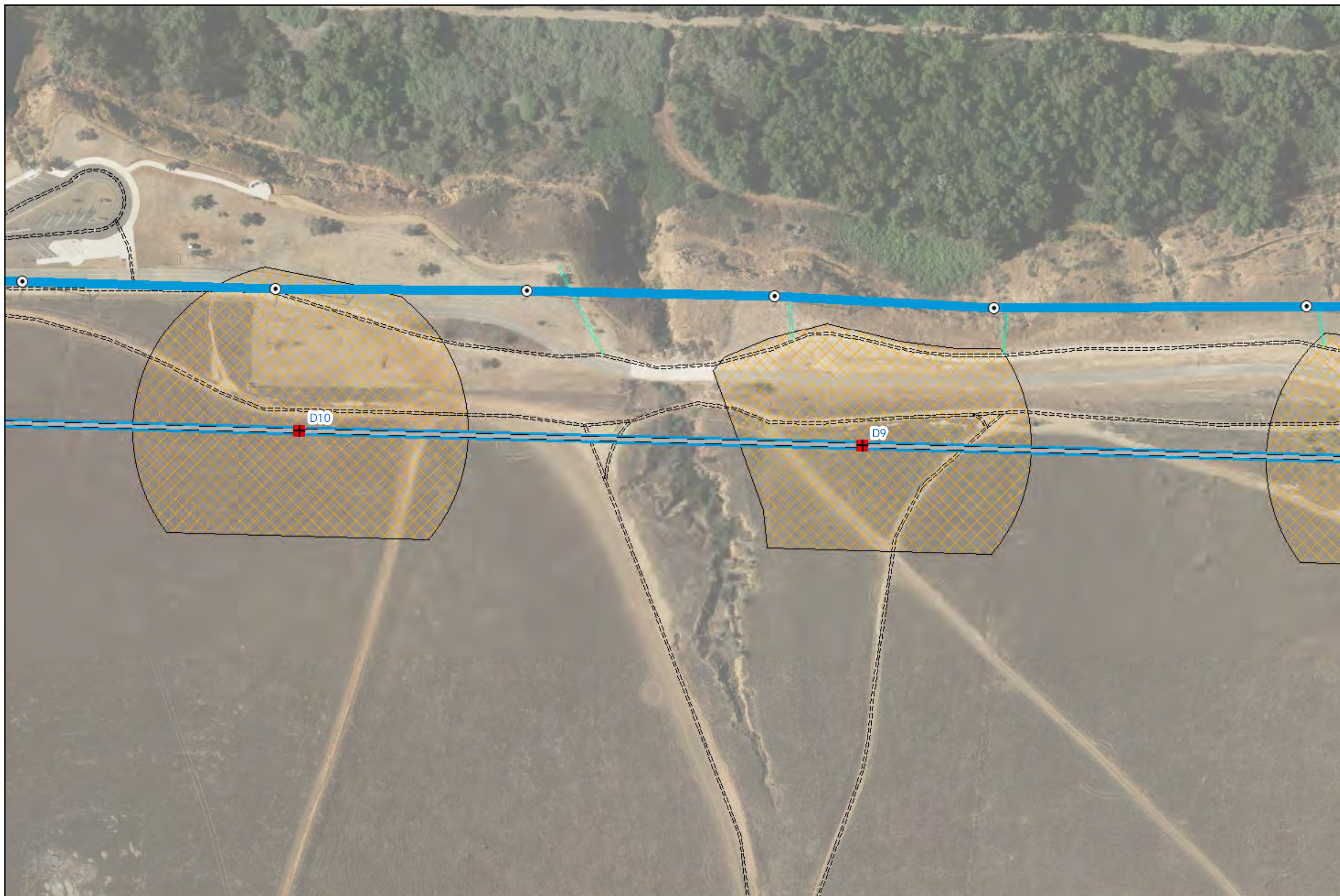
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 12 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Existing Pole
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  Overland Travel (Temporary)
-  GDAD



Scale = 1:1,500
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Aerial Imagery: 6/14/2016
Date Created: 11/6/2017










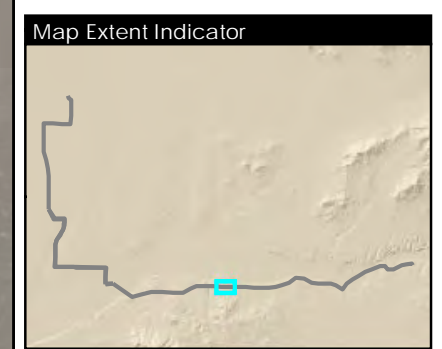
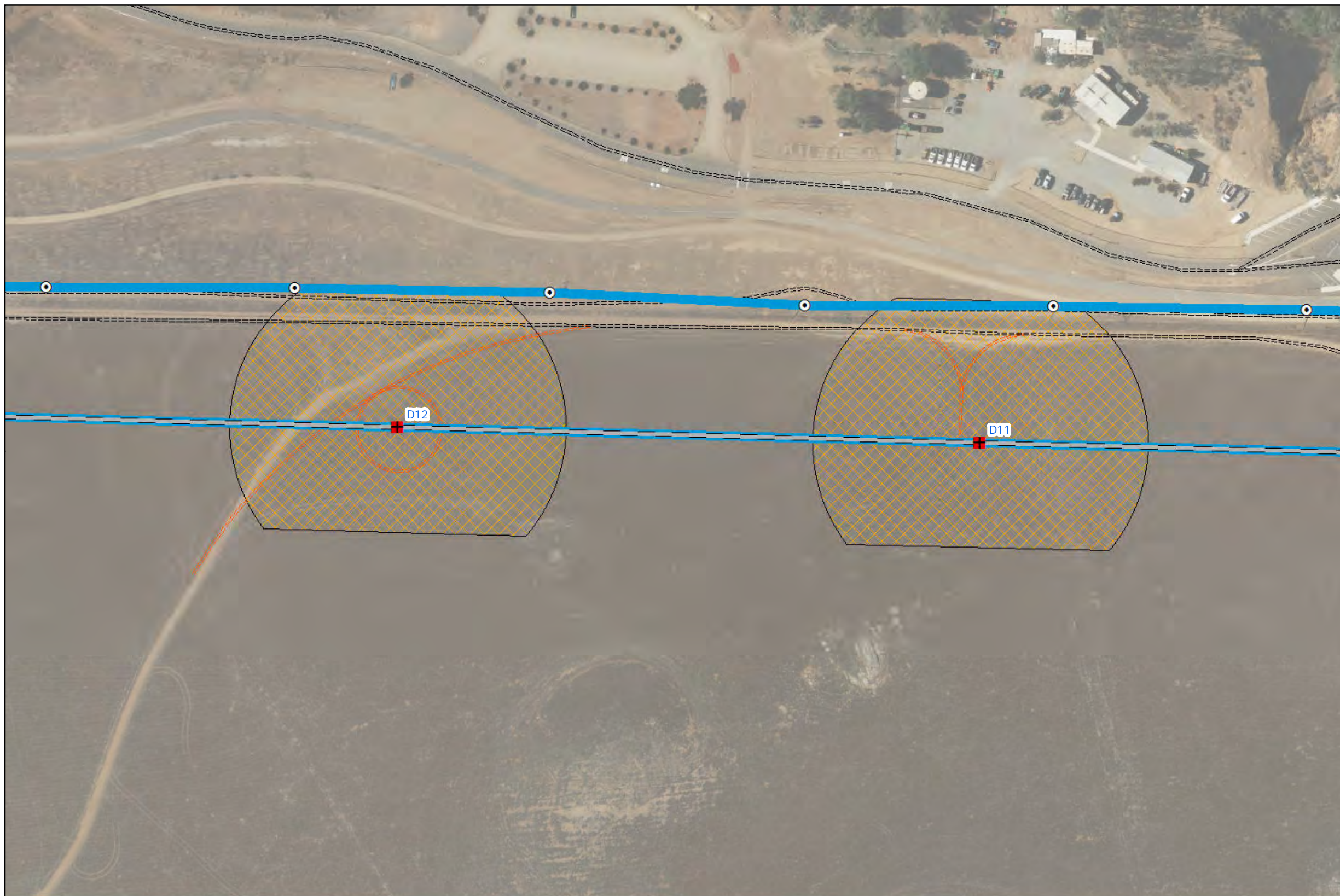
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 13 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Existing Pole
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017










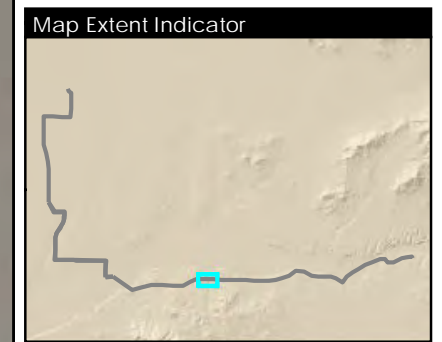
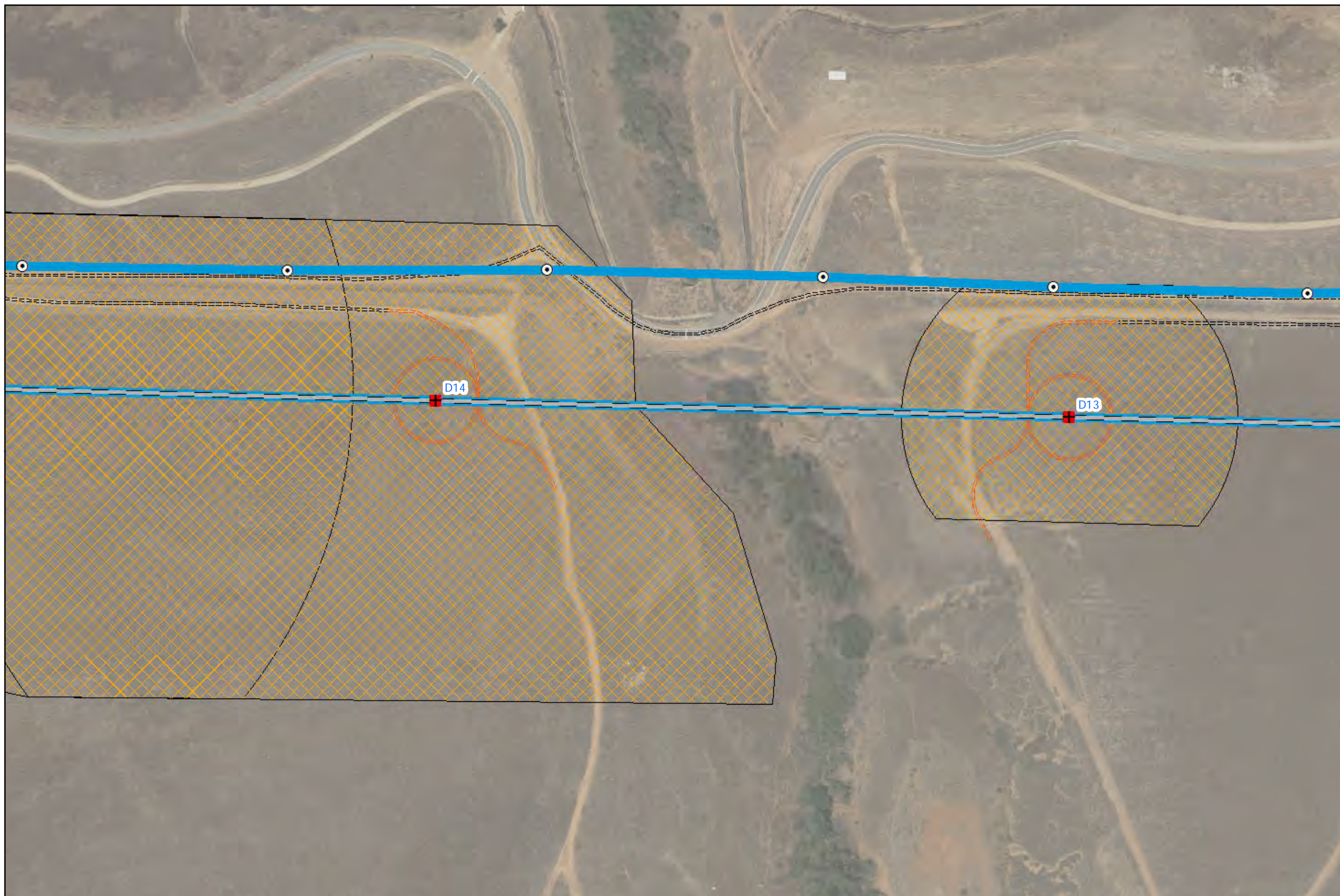
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 14 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Existing Pole
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017











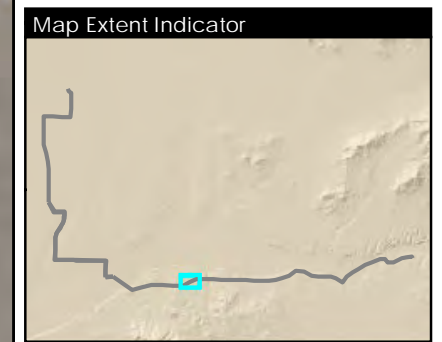
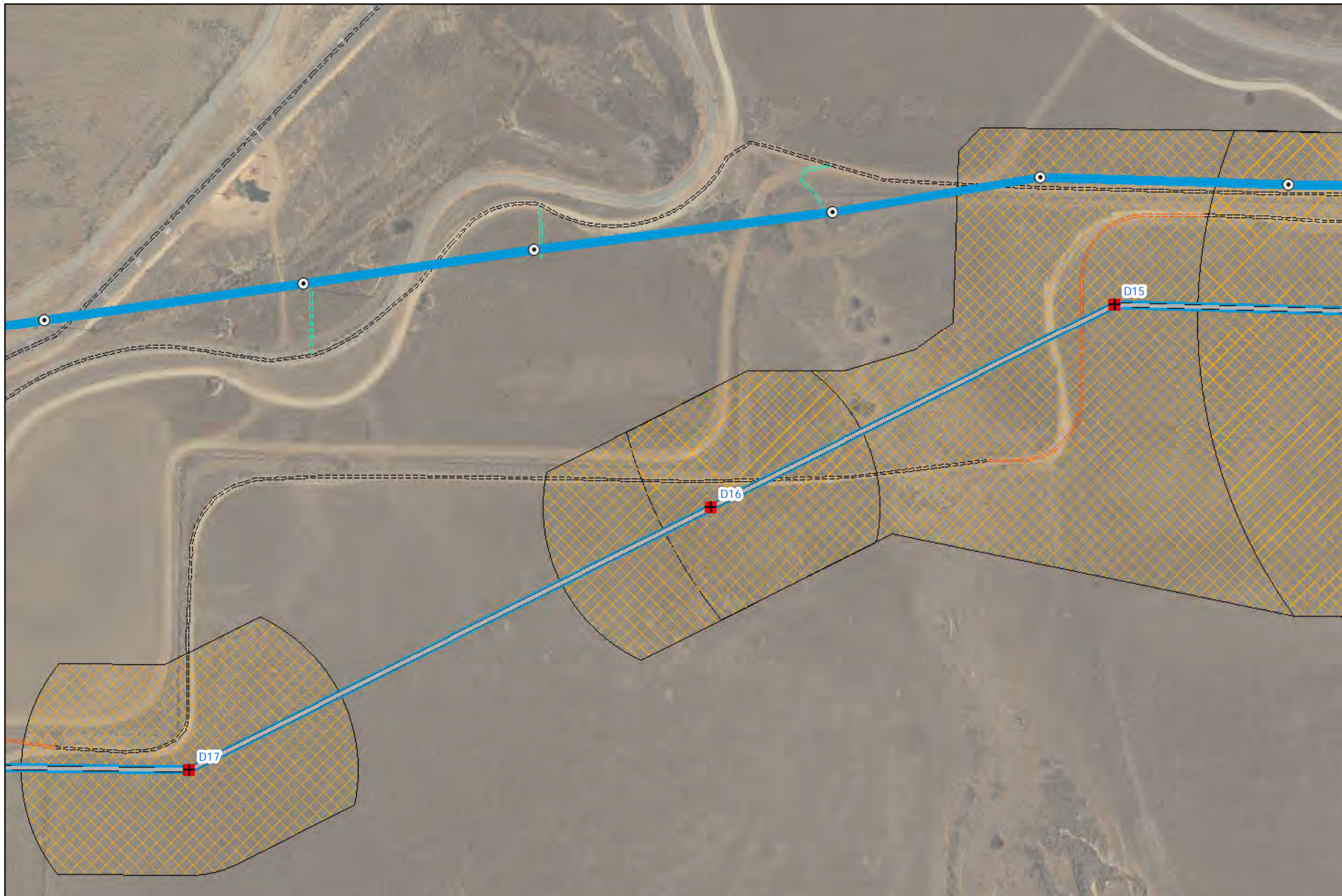
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 15 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Existing Pole
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  Overland Travel (Temporary)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017












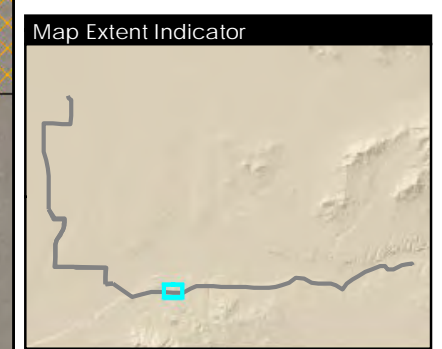
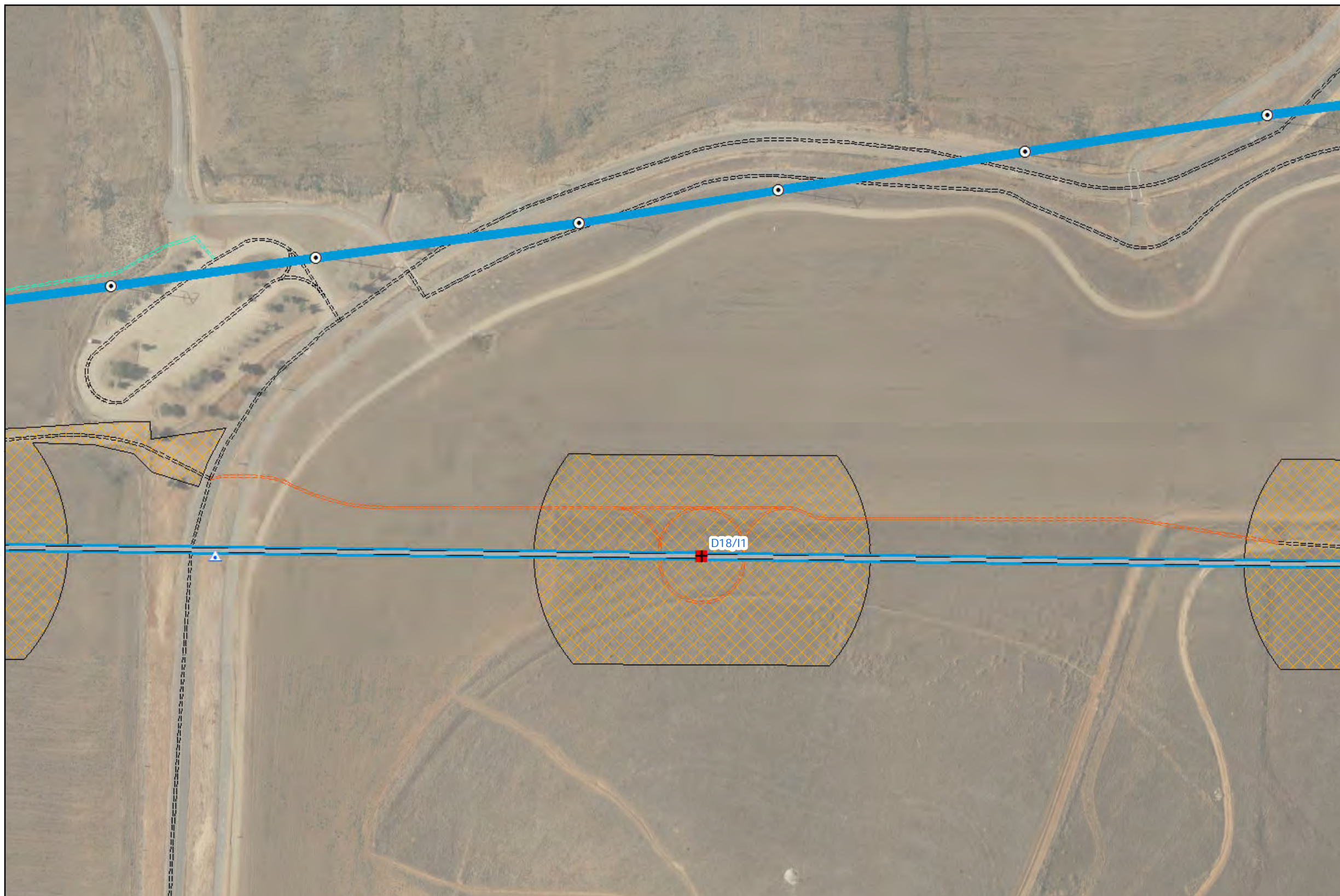
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 16 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Guard Structure
-  Existing Pole
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  Overland Travel (Temporary)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017










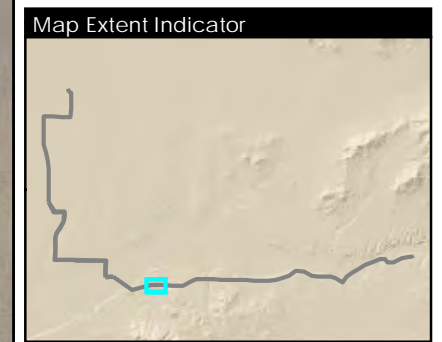
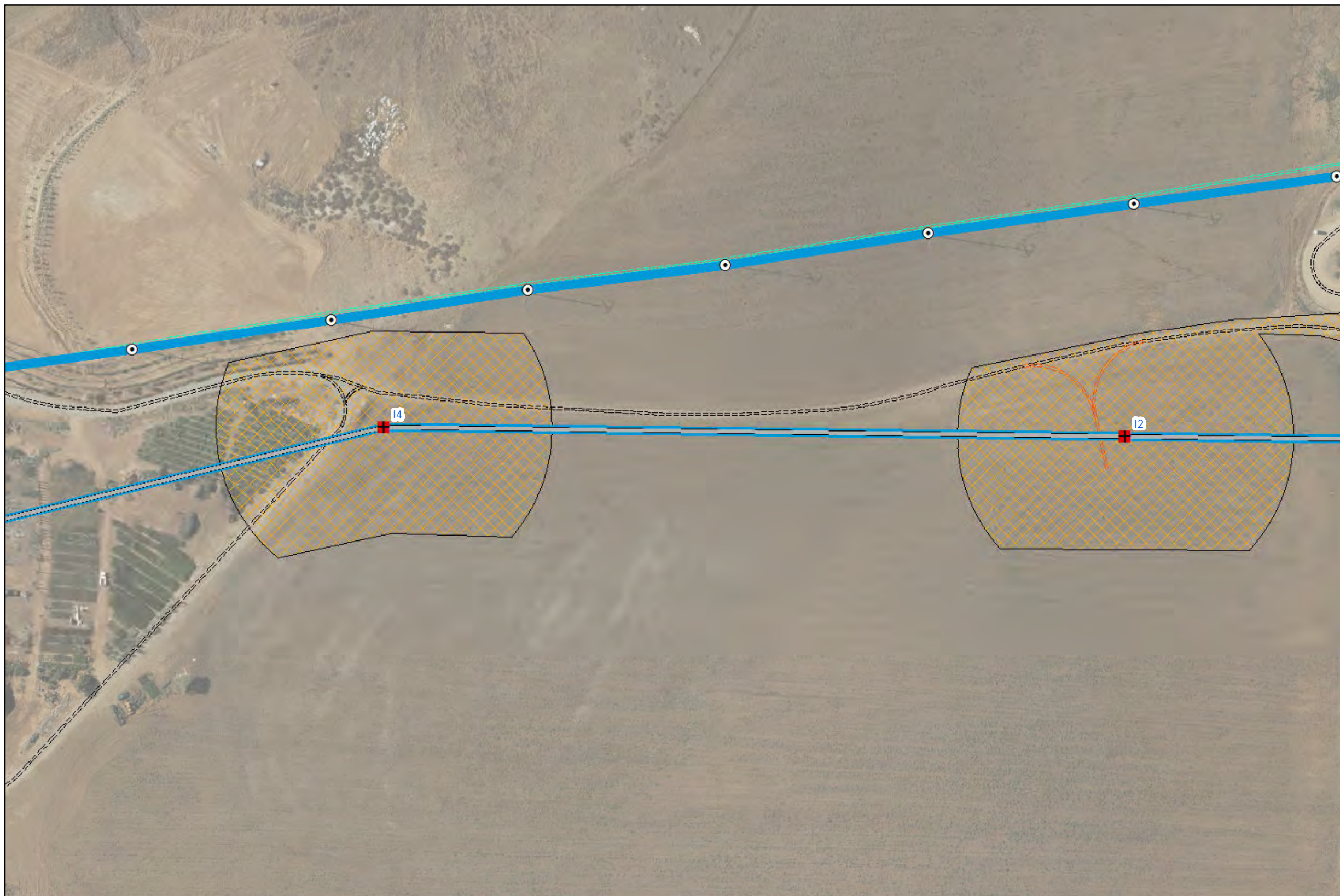
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 17 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Existing Pole
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  Overland Travel (Temporary)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017













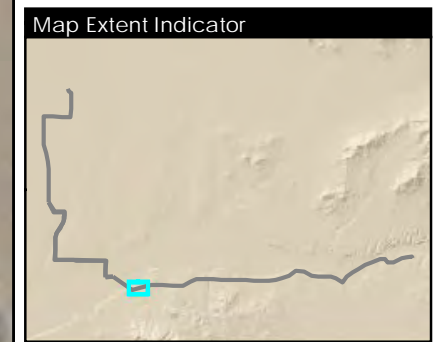
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 18 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Lattice Steel Tower (LST)
-  Guard Structure
-  Existing Pole
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  Overland Travel (Temporary)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017











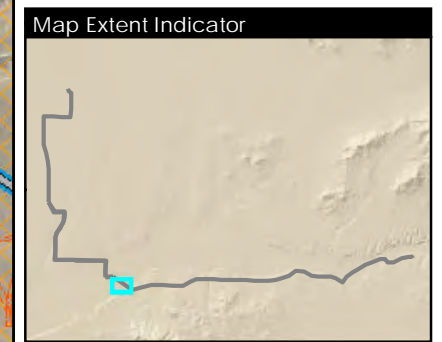
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 19 of 46

Legend

-  Guard Structure
-  Existing Pole
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  Overland Travel (Temporary)
-  GDAD



Scale = 1:1,500
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Aerial Imagery: 6/14/2016
Date Created: 11/6/2017









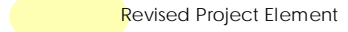





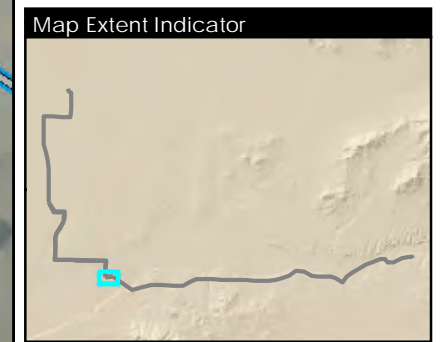
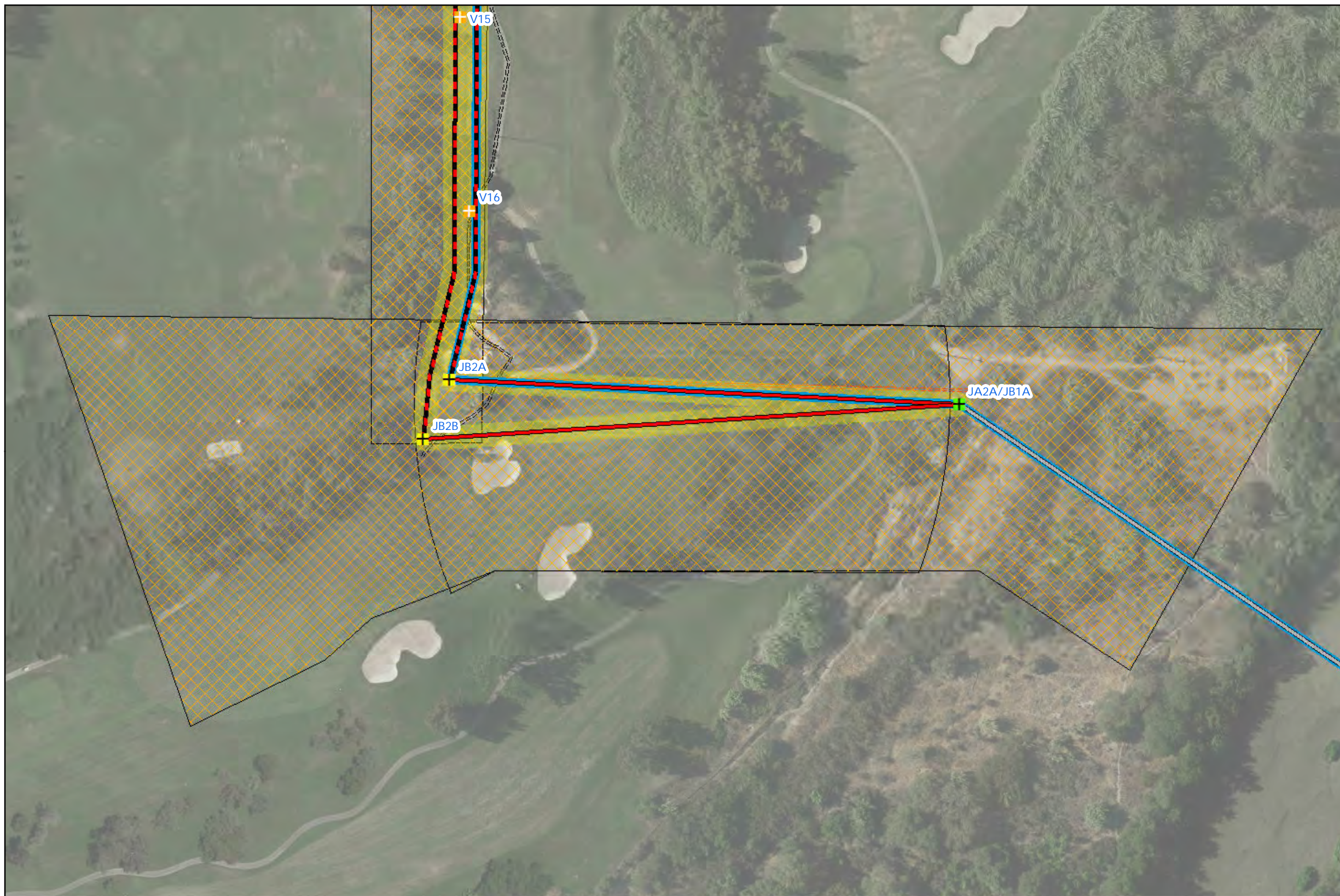
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 20 of 46

Legend

-  Lattice Steel Tower (LST)
-  Riser pole (TSP)
-  Vault
-  Proposed 230-kV Transmission Line (Overhead)
-  Proposed 230-kV Transmission Line (Underground)
-  Proposed 2013 Alignment (Overhead)
-  Proposed 2013 Alignment (Underground)
-  Proposed Telecom Alignment
-  Revised Project Element
-  Existing Access Road
-  New Stub Road (Permanent)
-  GDAD



Scale = 1:1,500






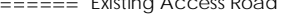



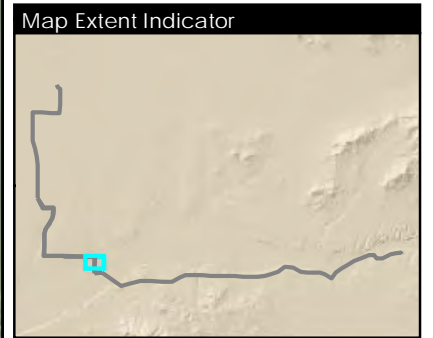
Aerial Imagery: 6/14/2016
Date Created: 11/6/2017





Legend

-  Vault
-  Proposed 230-kV Transmission Line (Underground)
-  Proposed 2013 Alignment (Underground)
-  Proposed Telecom Alignment
-  Revised Project Element
-  Existing Access Road
-  GDAD



Scale = 1:1,500
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 Aerial Imagery: 6/14/2016
 Date Created: 11/6/2017










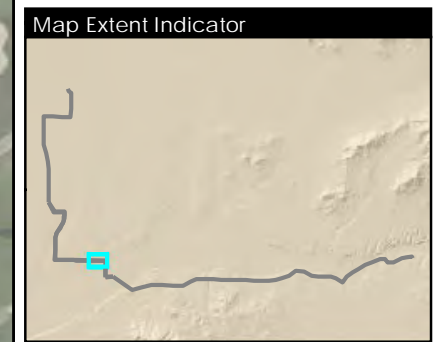
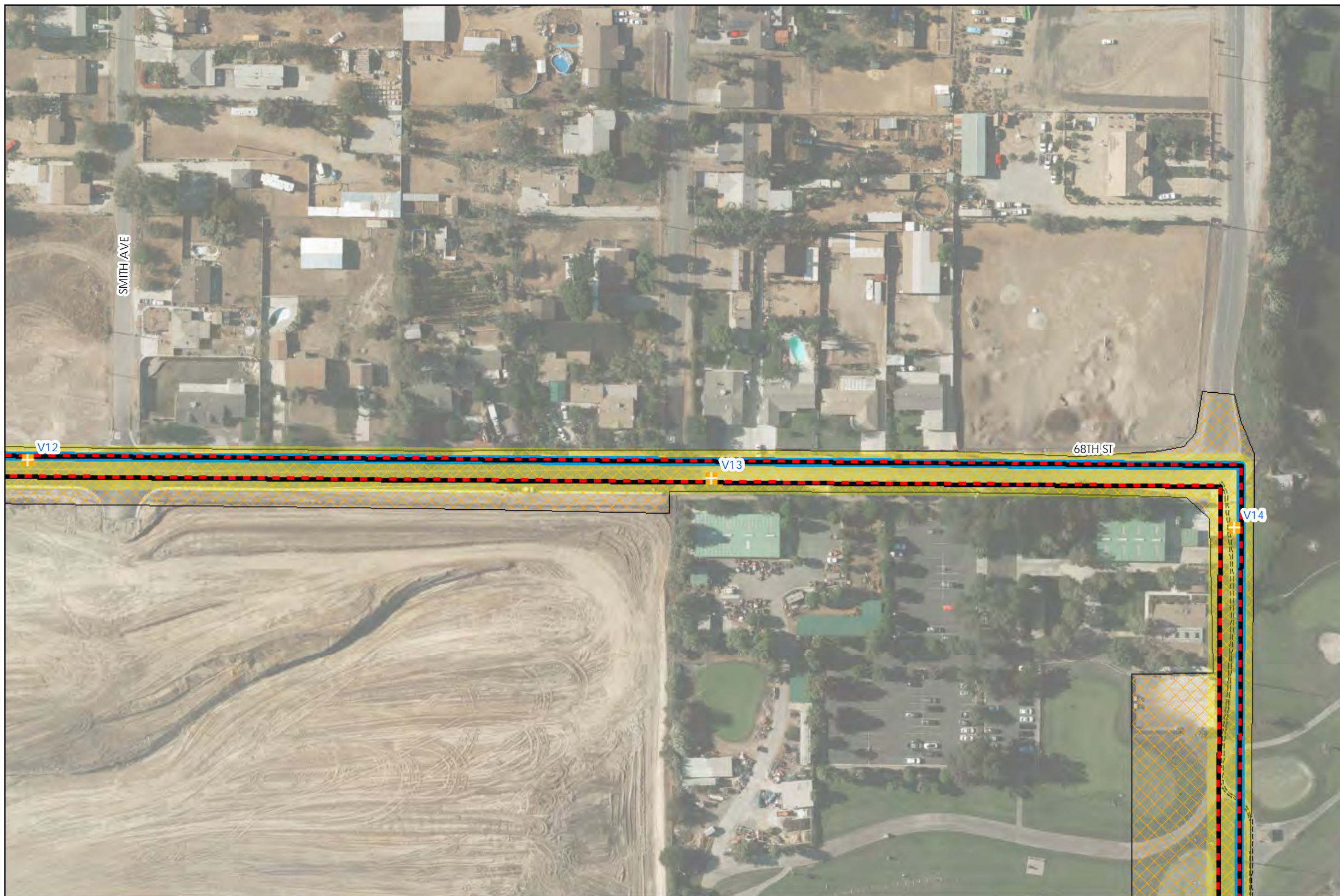
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 22 of 46

Legend

-  Vault
-  Proposed 230-kV Transmission Line (Underground)
-  Proposed 2013 Alignment (Underground)
-  Proposed Telecom Alignment
-  Revised Project Element
-  Existing Access Road
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017









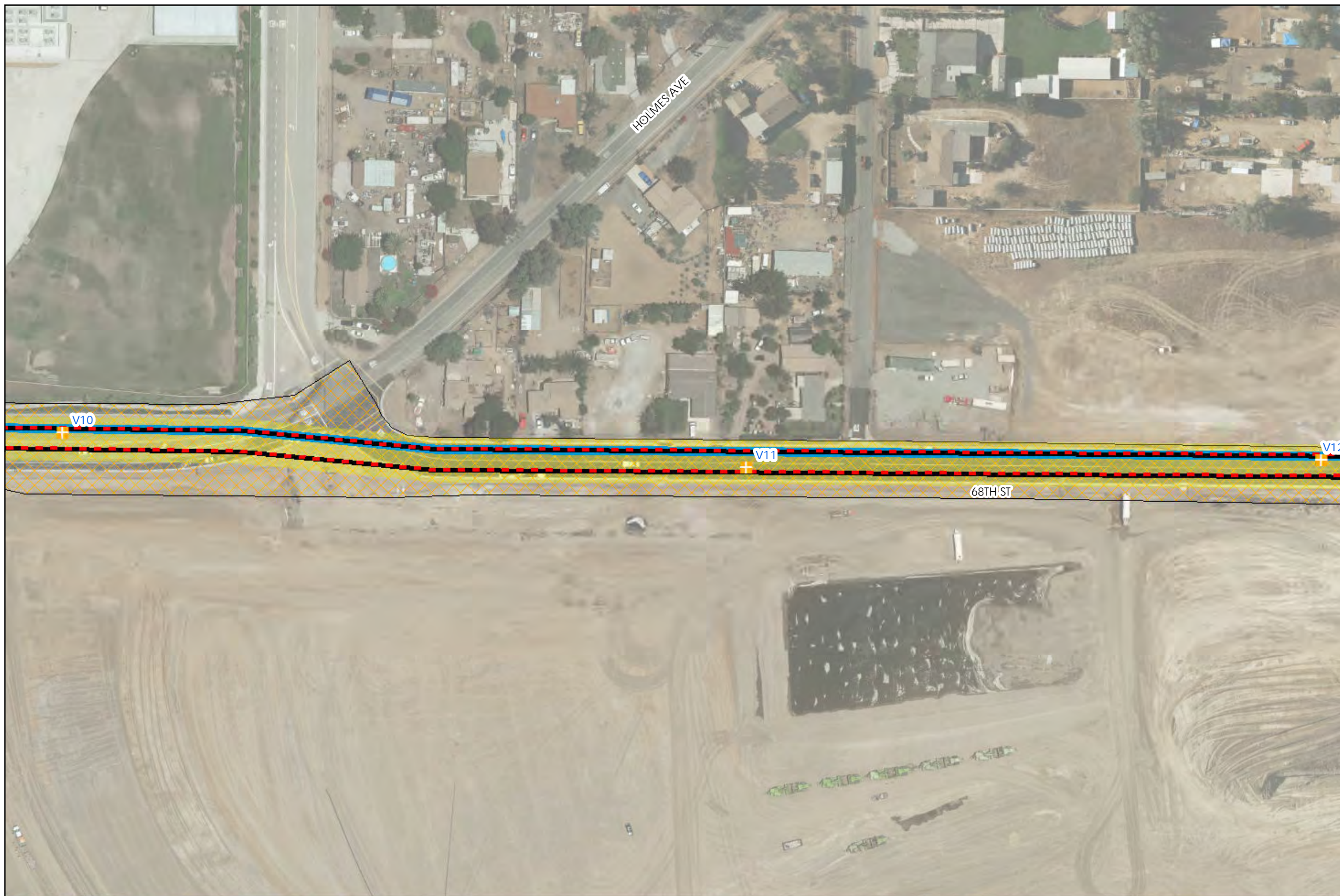
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

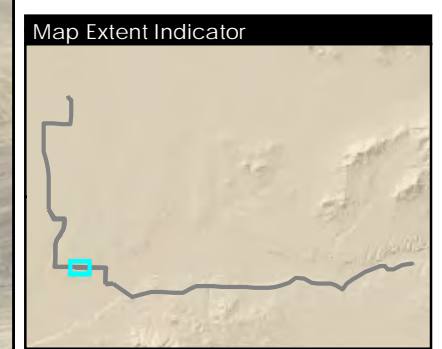
Map 23 of 46

Legend

-  Vault
-  Proposed 230-kV Transmission Line (Underground)
-  Proposed 2013 Alignment (Underground)
-  Proposed Telecom Alignment
-  Revised Project Element
-  GDAD



NOTE: Location 4 facilities were removed during construction of the Riverbend Residential Development



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017





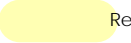



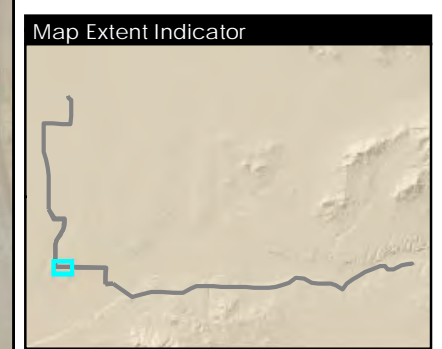
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 24 of 46

Legend

-  Vault
-  Proposed 230-kV Transmission Line (Underground)
-  Proposed 2013 Alignment (Underground)
-  Proposed Telecom Alignment
-  Revised Project Element
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017









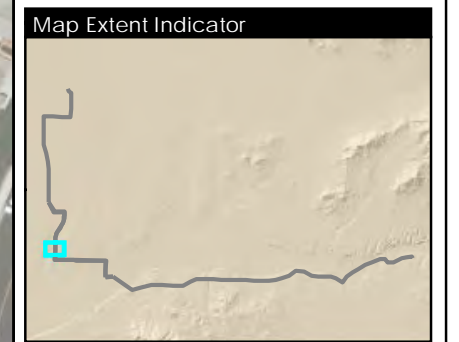
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 25 of 46

Legend

-  Vault
-  Proposed 230-kV Transmission Line (Underground)
-  Proposed 2013 Alignment (Underground)
-  Proposed Telecom Alignment
-  Revised Project Element
-  GDAD

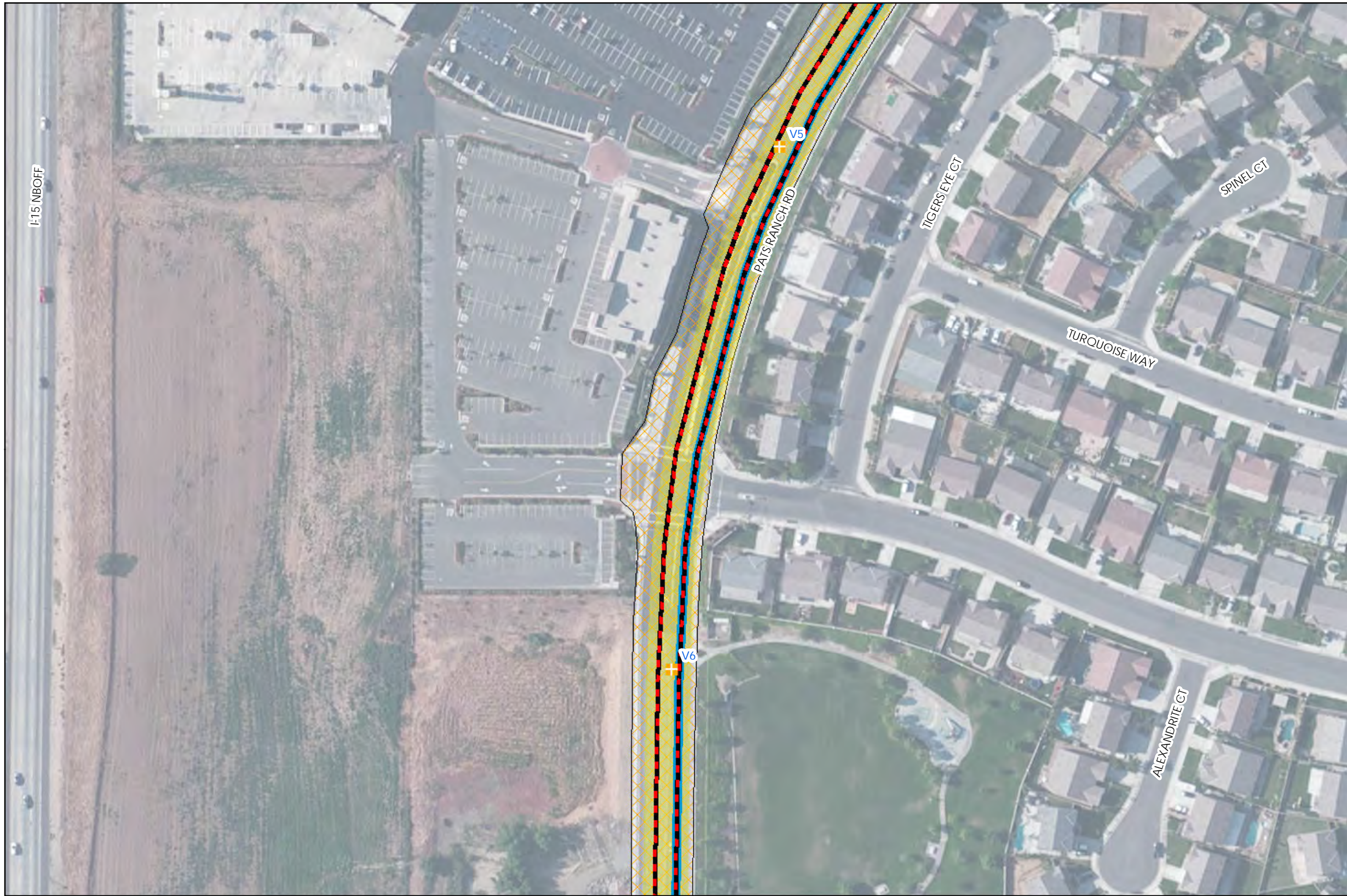


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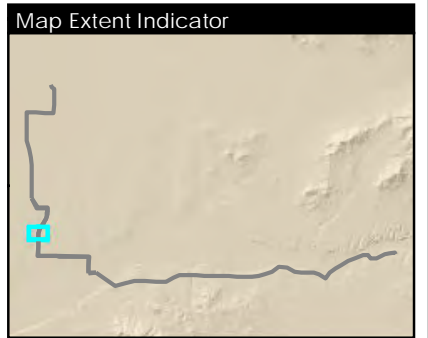


Aerial Imagery: 6/14/2016
Date Created: 11/6/2017



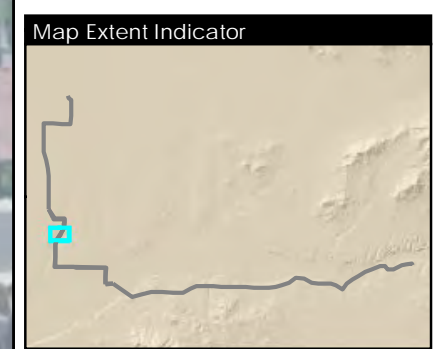


- Legend
- Vault
 - Proposed 230-kV Transmission Line (Underground)
 - Proposed 2013 Alignment (Underground)
 - Proposed Telecom Alignment
 - Revised Project Element
 - GDAD





- Legend
- Vault
 - Proposed 230-kV Transmission Line (Underground)
 - Proposed 2013 Alignment (Underground)
 - Proposed Telecom Alignment
 - Revised Project Element
 - GDAD



Scale = 1:1,500
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 Aerial Imagery: 6/14/2016
 Date Created: 11/6/2017
 PANORAMA

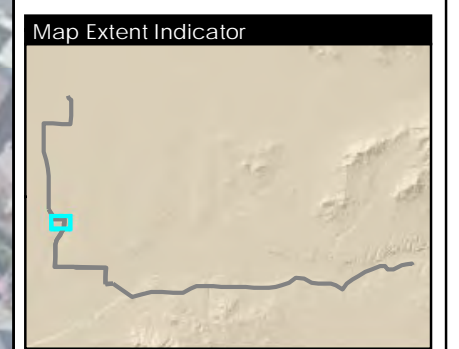
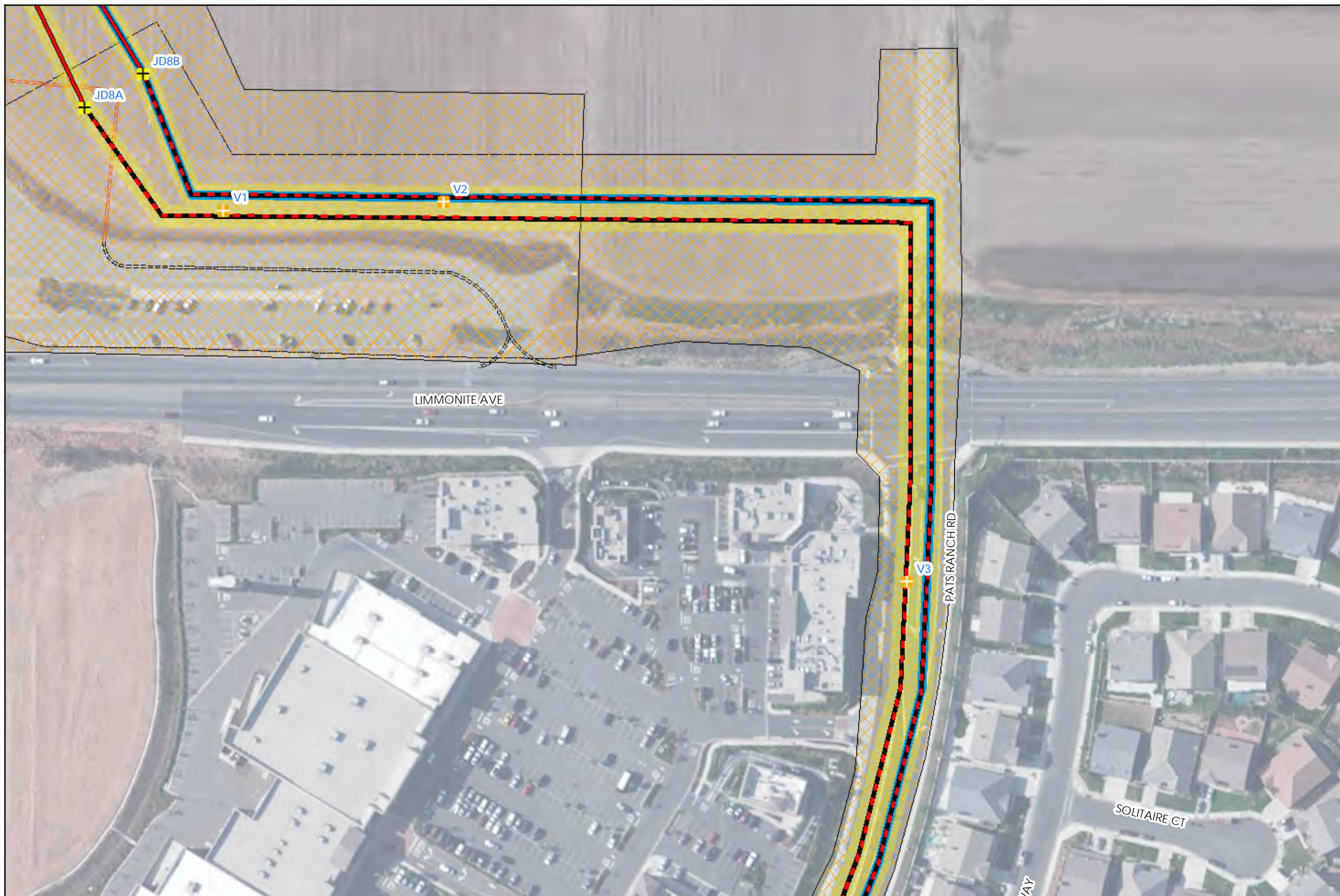
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 28 of 46

Legend

- Riser pole (TSP)
- Vault
- Proposed 230-kV Transmission Line (Overhead)
- Proposed 230-kV Transmission Line (Underground)
- Proposed 2013 Alignment (Overhead)
- Proposed 2013 Alignment (Underground)
- Proposed Telecom Alignment
- Revised Project Element
- Existing Access Road
- New Stub Road (Permanent)
- GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017



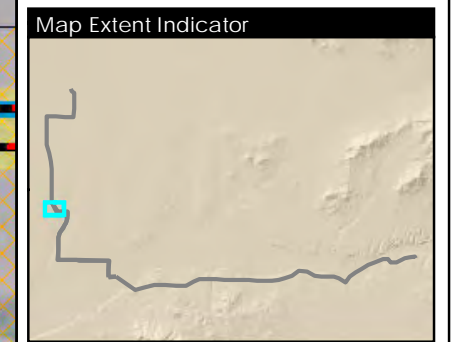
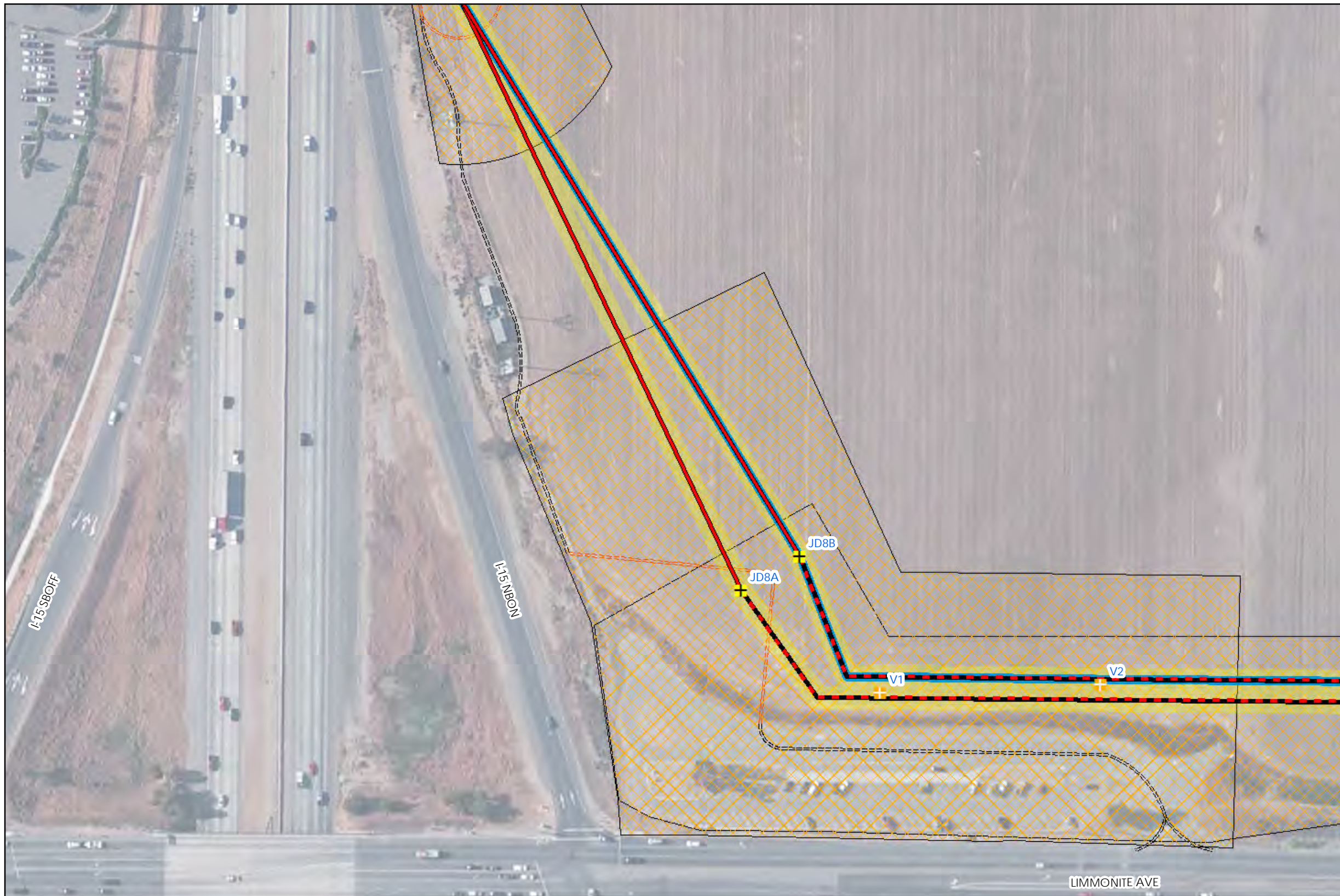
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 29 of 46

Legend

- Riser pole (TSP)
- Vault
- Proposed 230-kV Transmission Line (Overhead)
- Proposed 230-kV Transmission Line (Underground)
- Proposed 2013 Alignment (Overhead)
- Proposed 2013 Alignment (Underground)
- Proposed Telecom Alignment
- Revised Project Element
- Existing Access Road
- New Stub Road (Permanent)
- GDAD



Scale = 1:1,500

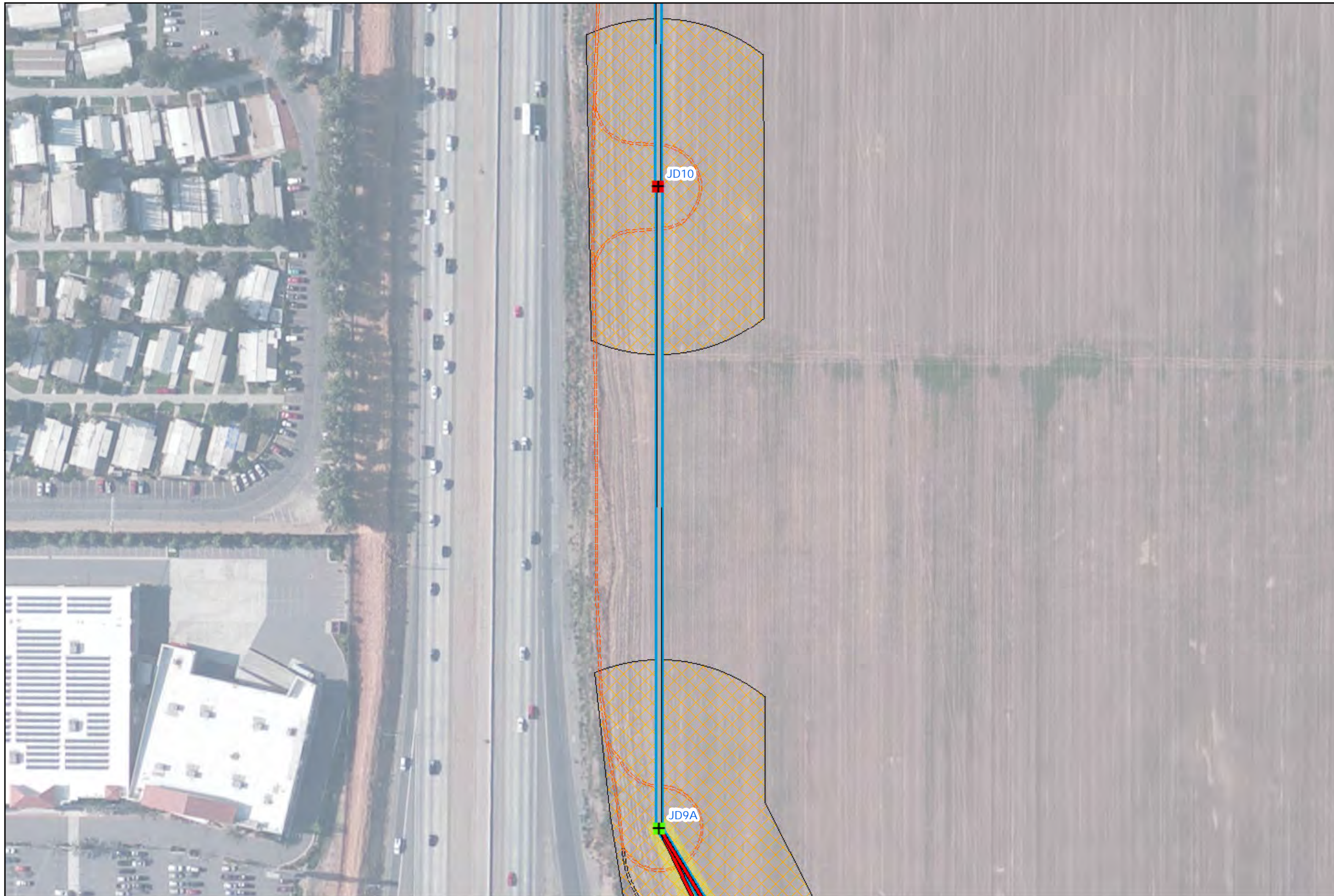
0 12.5 25 50 75 100 Feet










Aerial Imagery: 6/14/2016

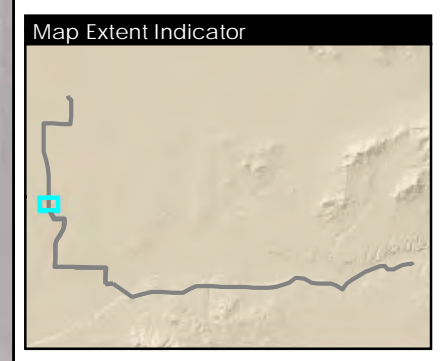
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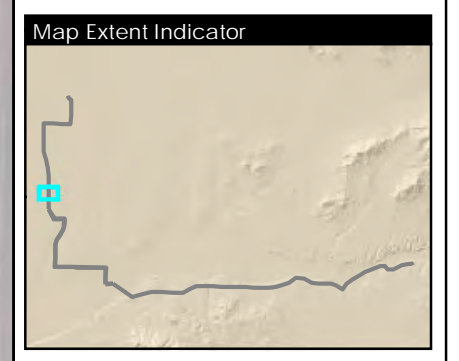


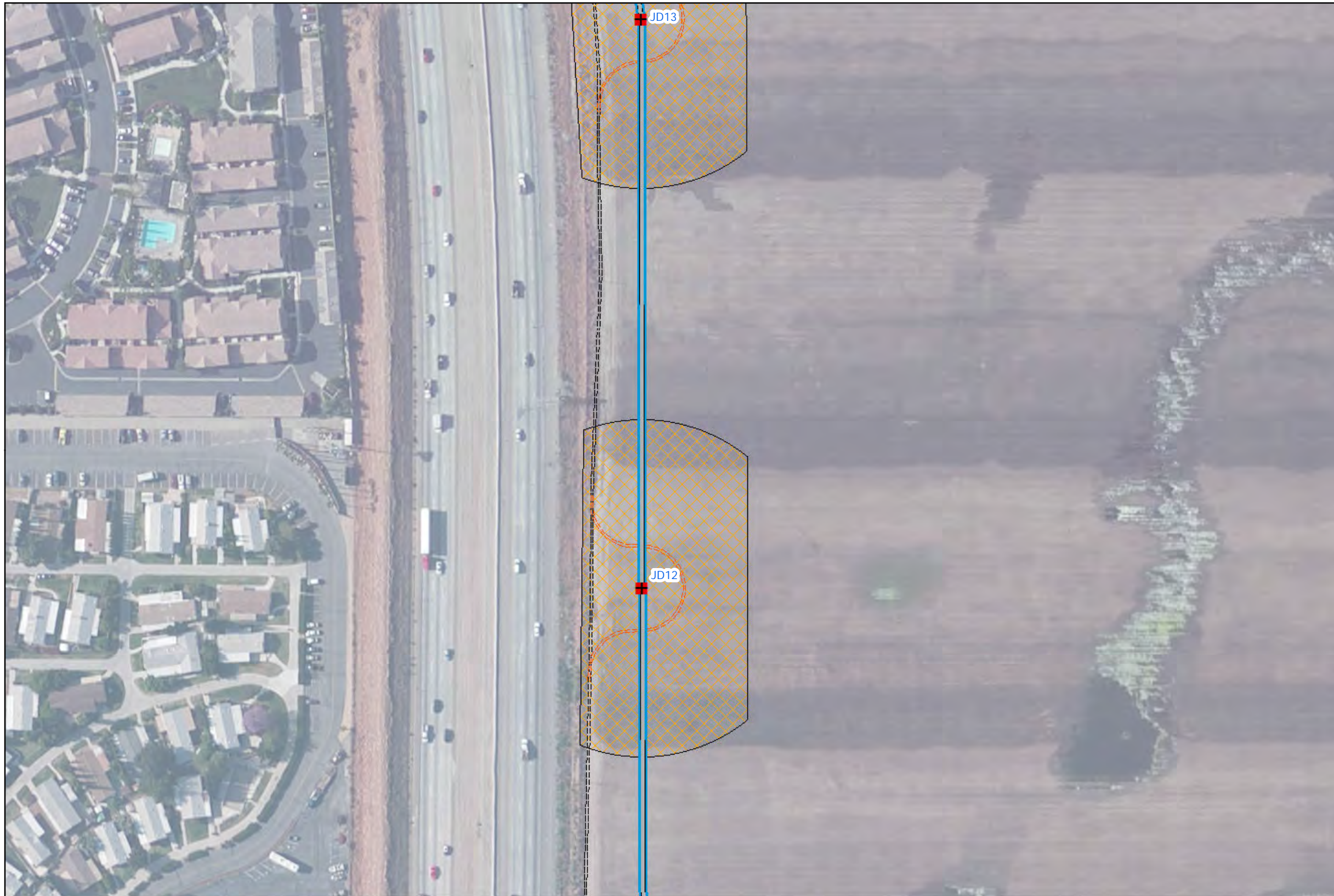
- Legend
-  Tubular Steel Pole (TSP)
 -  Lattice Steel Tower (LST)
 -  Proposed 230-kV Transmission Line (Overhead)
 -  Proposed 2013 Alignment (Overhead)
 -  Proposed Telecom Alignment
 -  Revised Project Element
 -  Existing Access Road
 -  New Stub Road (Permanent)
 -  GDAD









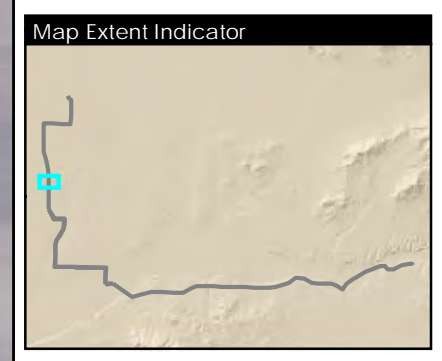


- Legend
- Tubular Steel Pole (TSP)
 - Proposed 2013 Alignment (Overhead)
 - Proposed Telecom Alignment
 - Existing Access Road
 - New Stub Road (Permanent)
 - GDAD





- Legend
-  Tubular Steel Pole (TSP)
 -  Proposed 2013 Alignment (Overhead)
 -  Proposed Telecom Alignment
 -  Existing Access Road
 -  New Stub Road (Permanent)
 -  GDAD









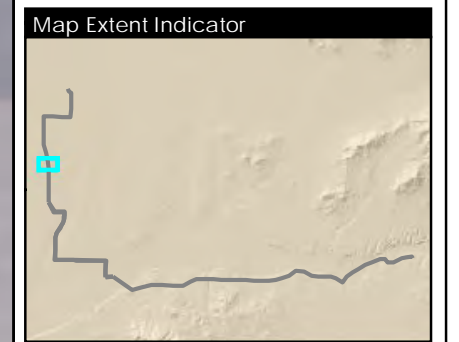
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 33 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  GDAD











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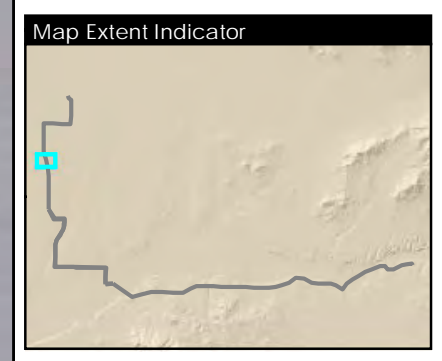


Aerial Imagery: 6/14/2016
Date Created: 11/6/2017





- Legend
-  Tubular Steel Pole (TSP)
 -  Existing Pole
 -  Existing Distribution Alignment (Overhead)
 -  Proposed 2013 Alignment (Overhead)
 -  Proposed Telecom Alignment
 -  Existing Access Road
 -  New Stub Road (Permanent)
 -  GDAD













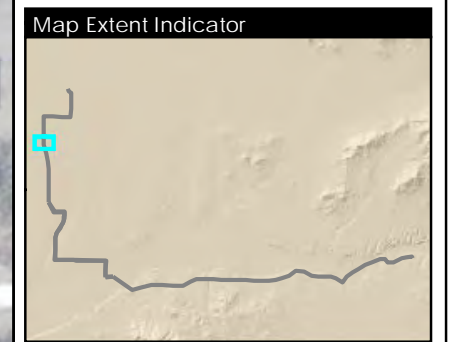
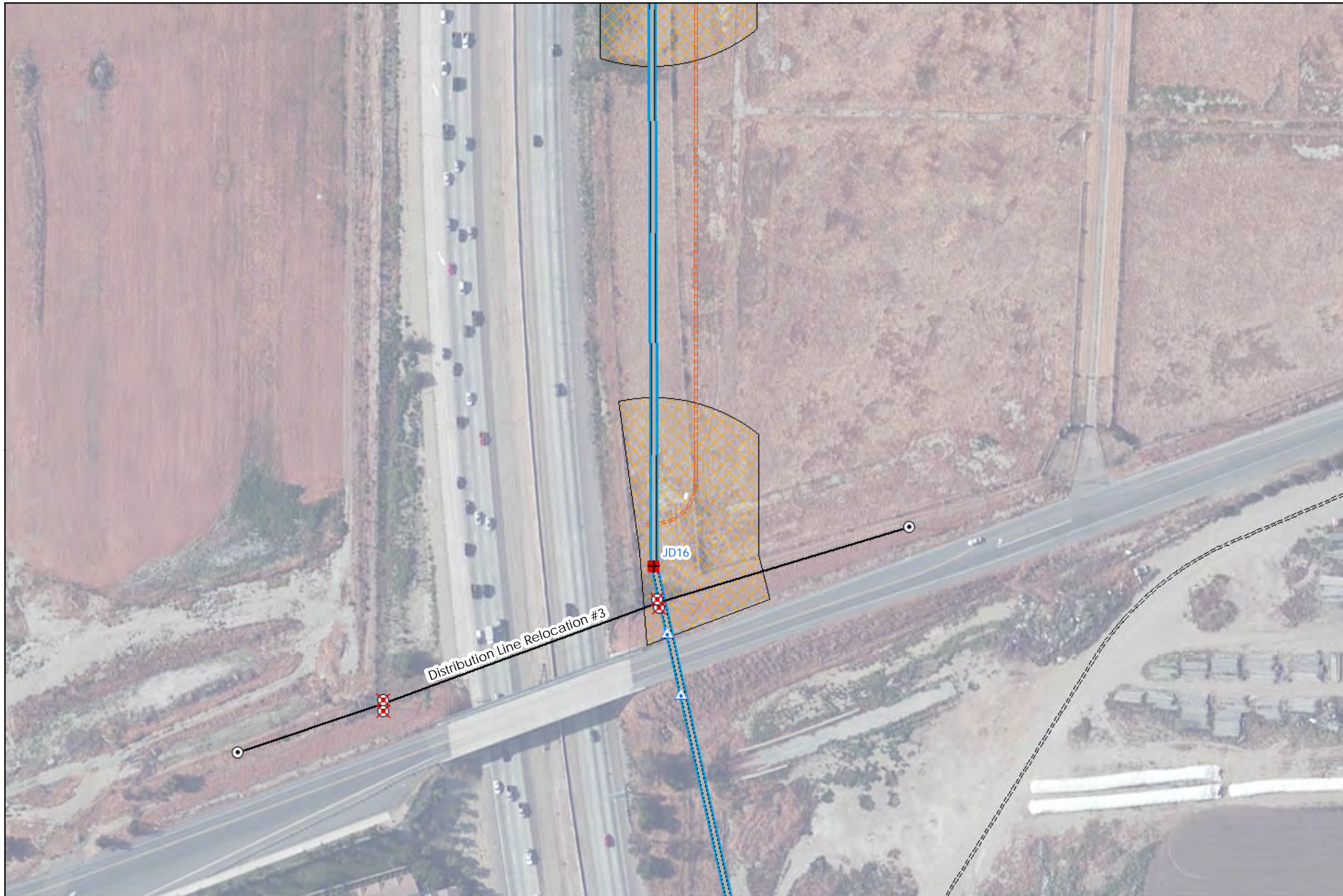
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 35 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Guard Structure
-  Existing Pole
-  Existing Pole to be Removed
-  Existing Distribution Alignment (Overhead)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Existing Access Road
-  New Stub Road (Permanent)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017








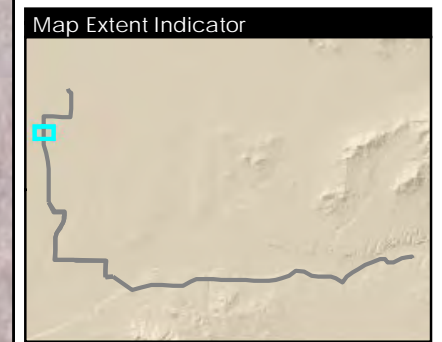
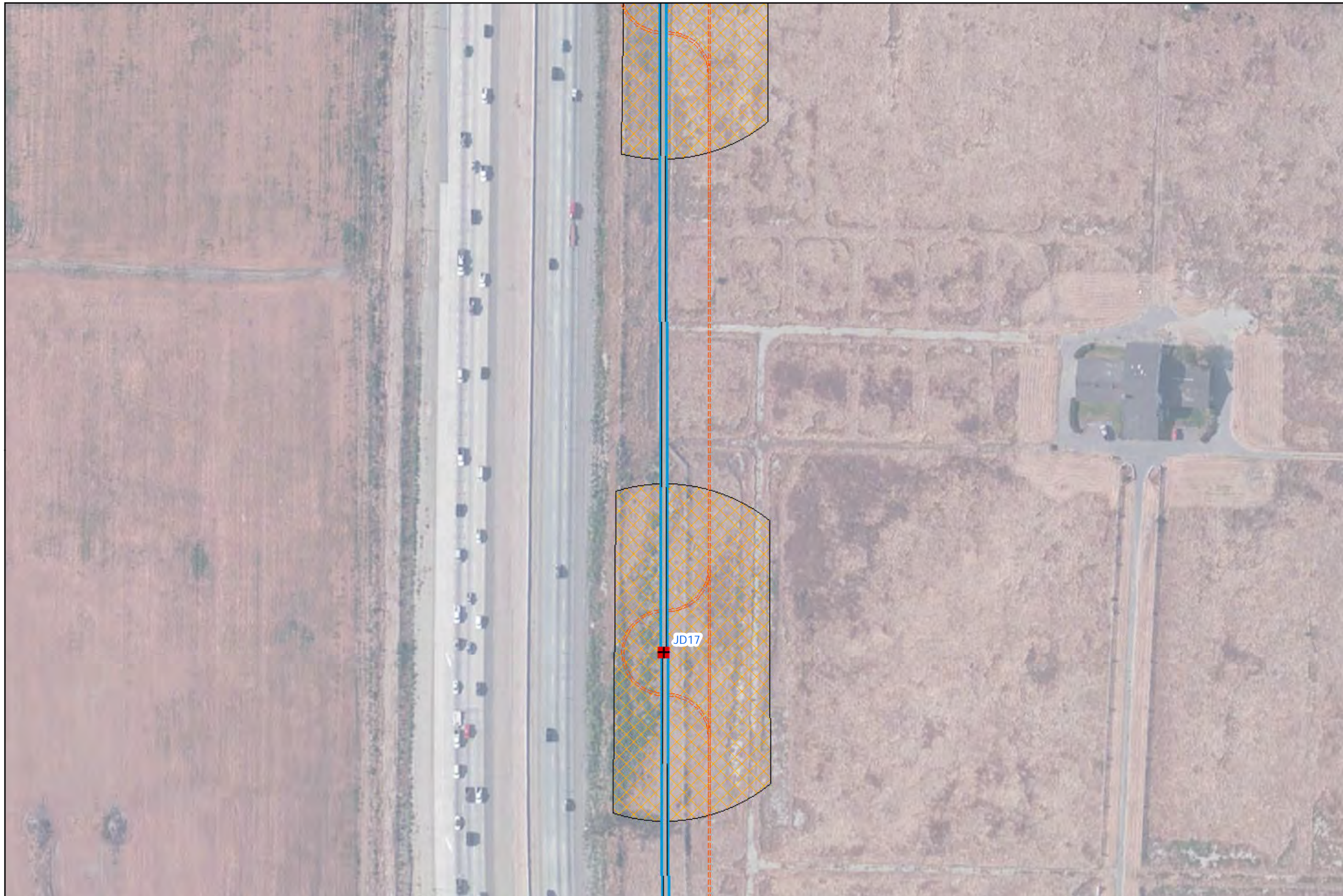
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

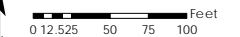
Map 36 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  New Stub Road (Permanent)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017












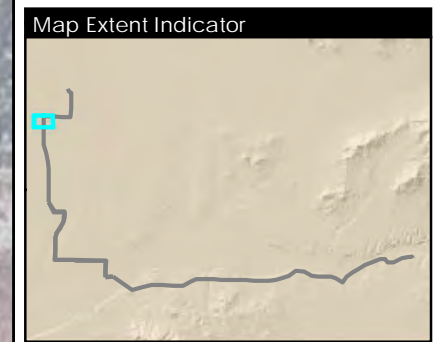
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 37 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Lattice Steel Tower (LST)
-  Guard Structure
-  Existing Pole to be Removed
-  Existing Distribution Alignment (Overhead)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  New Stub Road (Permanent)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017












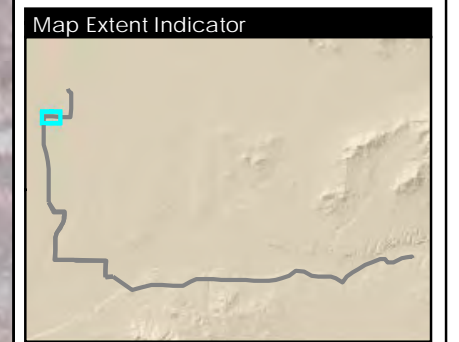
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 38 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Lattice Steel Tower (LST)
-  Guard Structure
-  Existing Pole to be Removed
-  Existing Distribution Alignment (Overhead)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  New Stub Road (Permanent)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017





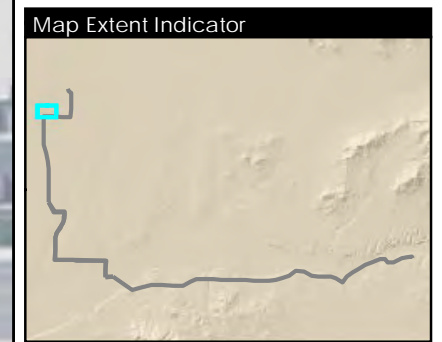
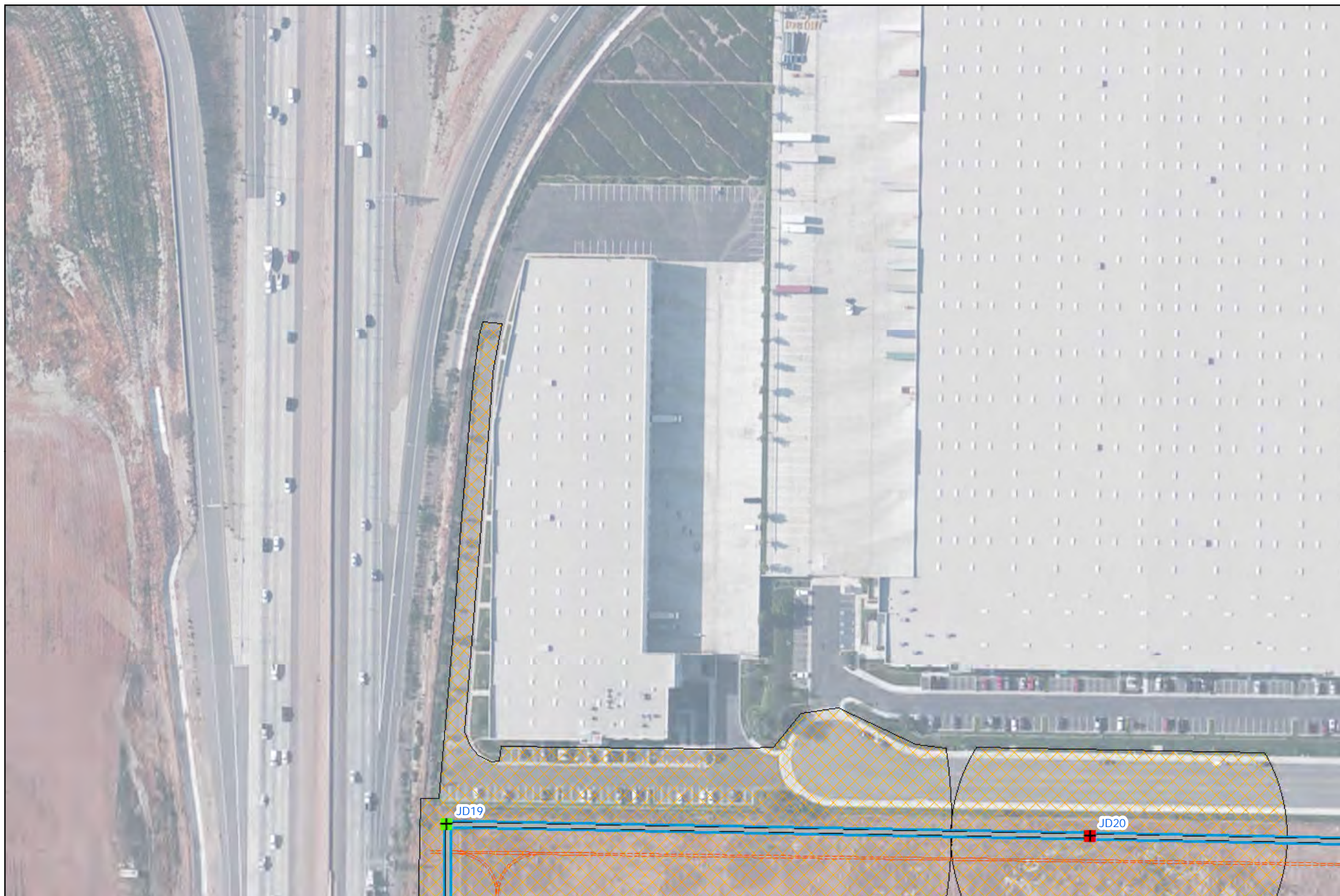
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 39 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Lattice Steel Tower (LST)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  New Stub Road (Permanent)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017











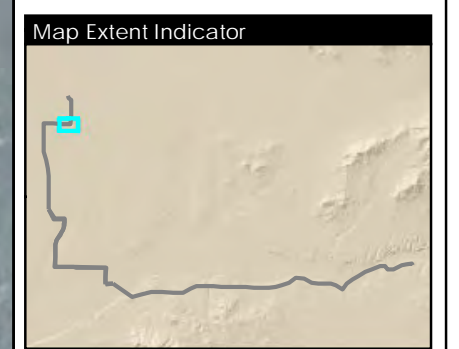
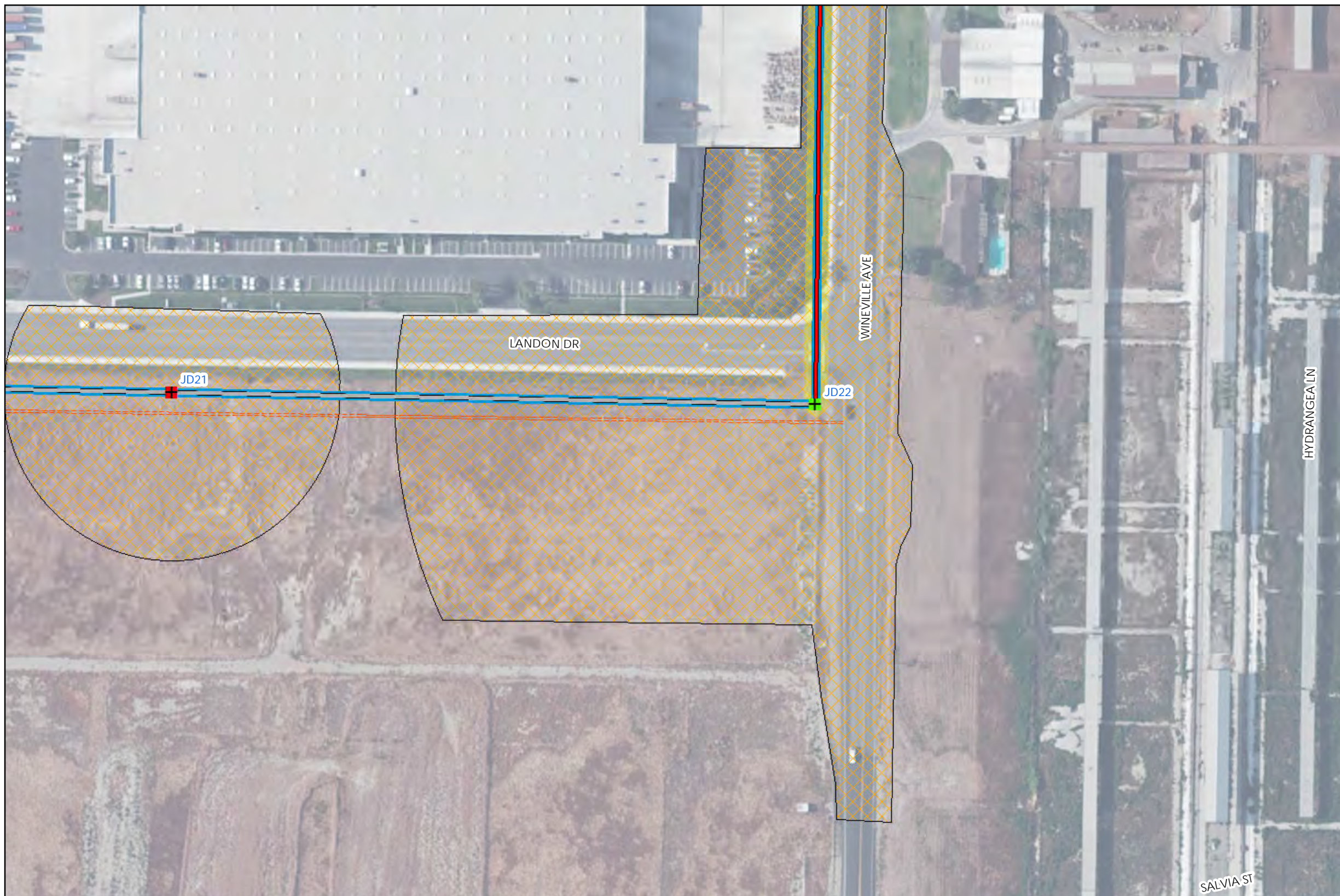
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 40 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Lattice Steel Tower (LST)
-  Proposed 230-kV Transmission Line (Overhead)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Revised Project Element
-  New Stub Road (Permanent)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017












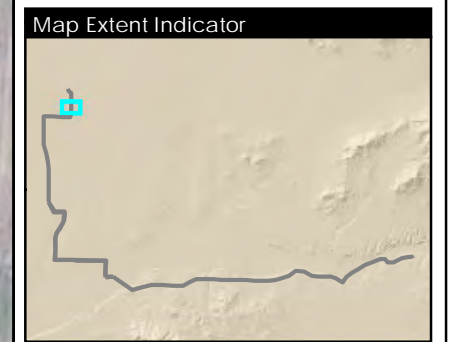
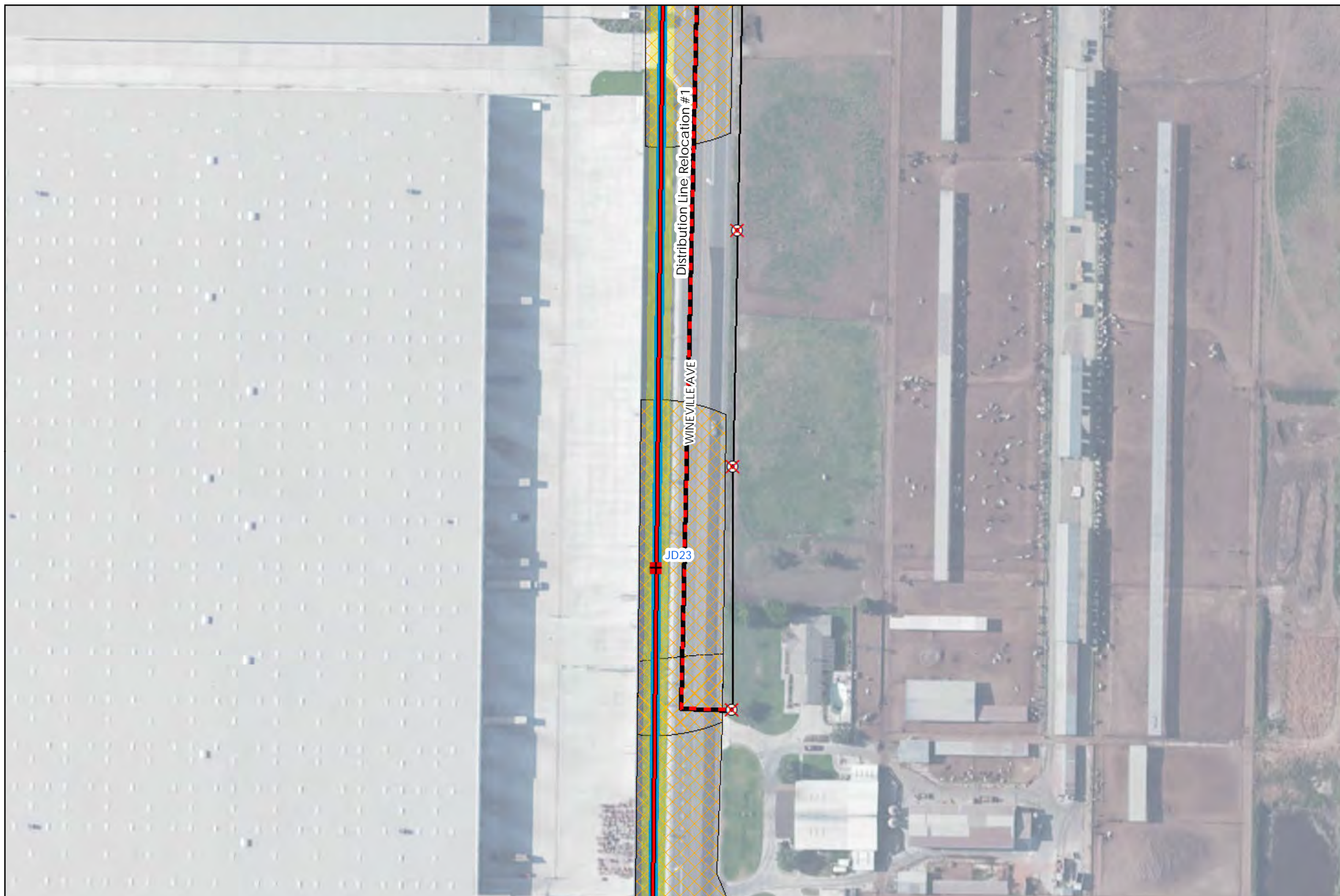
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 41 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Existing Pole to be Removed
-  Existing Distribution Alignment (Overhead)
-  Revised Distribution Alignment (Underground)
-  Proposed 230-kV Transmission Line (Overhead)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Revised Project Element
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017














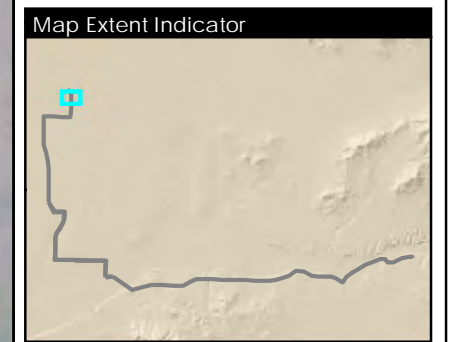
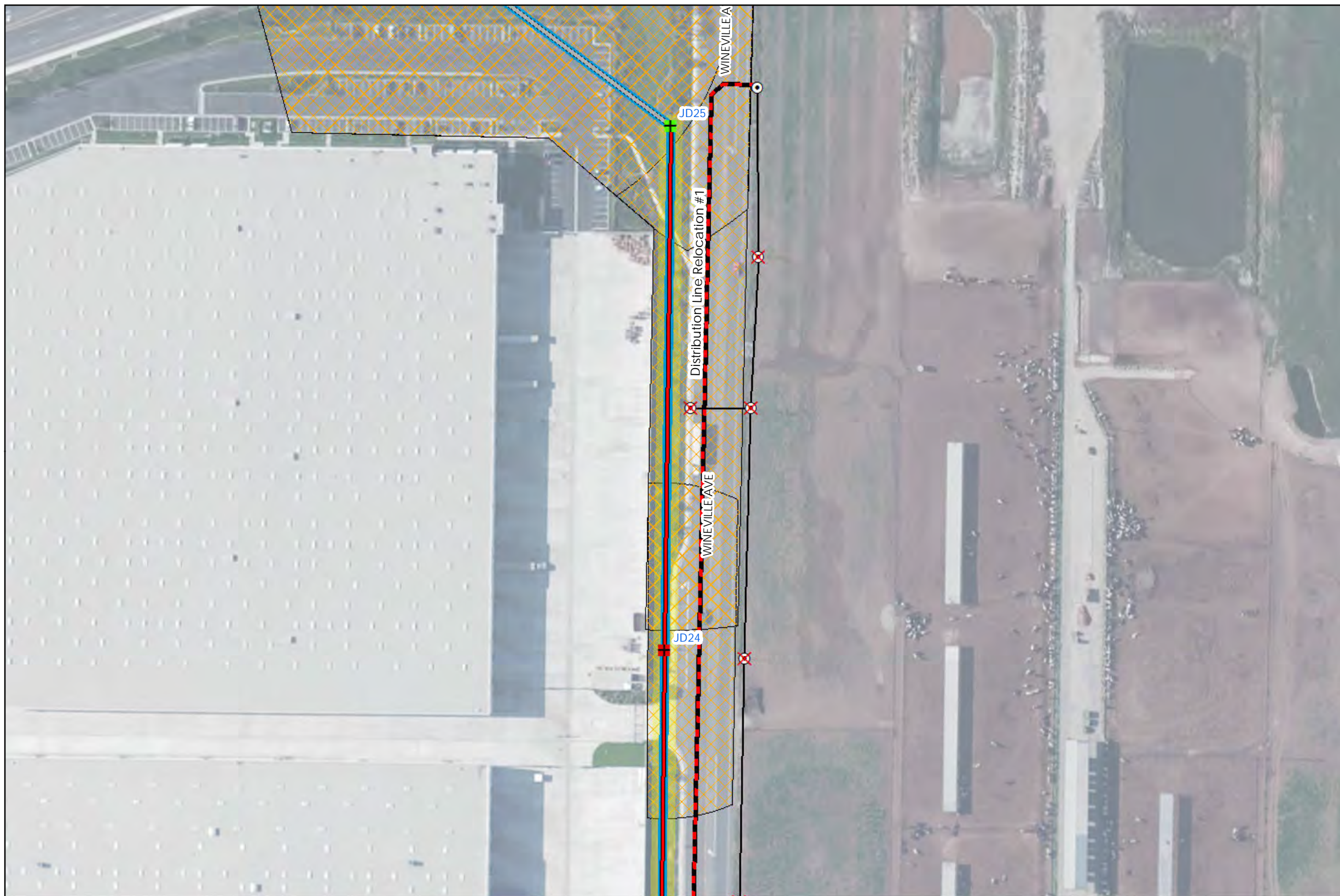
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 42 of 46

Legend

-  Tubular Steel Pole (TSP)
-  Lattice Steel Tower (LST)
-  Existing Pole
-  Existing Pole to be Removed
-  Existing Distribution Alignment (Overhead)
-  Revised Distribution Alignment (Underground)
-  Proposed 230-kV Transmission Line (Overhead)
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Revised Project Element
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017













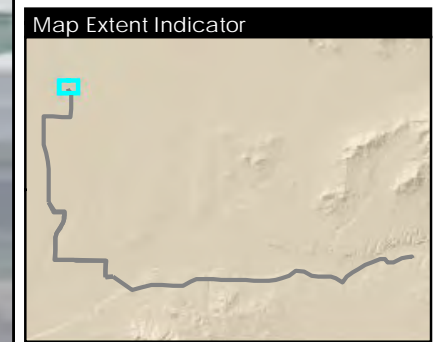
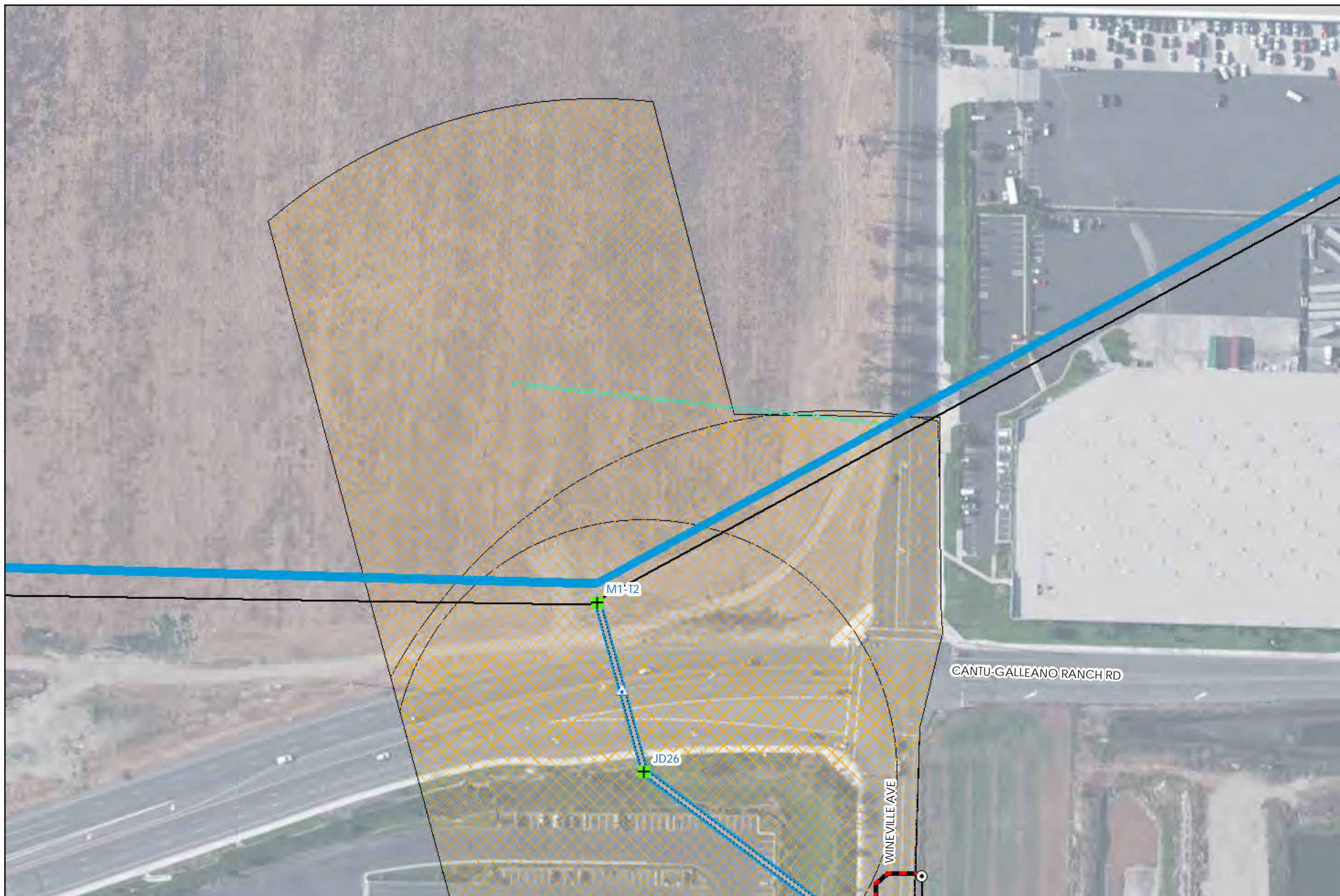
Riverside Transmission Reliability Project

Project Elements(All Elements)
Mapbook

Map 43 of 46

Legend

-  Lattice Steel Tower (LST)
-  Guard Structure
-  Existing Pole
-  Existing Distribution Alignment (Overhead)
-  Revised Distribution Alignment (Underground)
-  Existing Mira Loma - Vista #1 230-kV Transmission Line Alignment
-  Proposed 2013 Alignment (Overhead)
-  Proposed Telecom Alignment
-  Overland Travel (Temporary)
-  GDAD



Scale = 1:1,500



Aerial Imagery: 6/14/2016
Date Created: 11/6/2017





Riverside Transmission Reliability Project

Project Elements(All Elements) Mapbook

Map 44 of 46

Legend

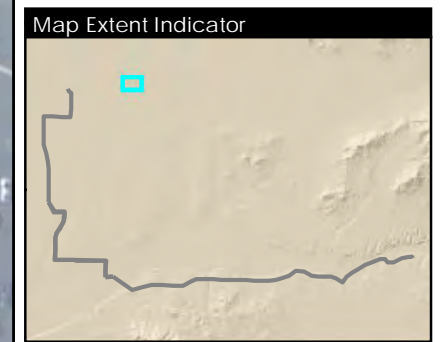
-  Revised Project Element
-  Tentative Marshalling Yard



Etiwanda Marshalling Yard

PARKHURST ST

ETIWANDA AVE



Scale = 1:1,500

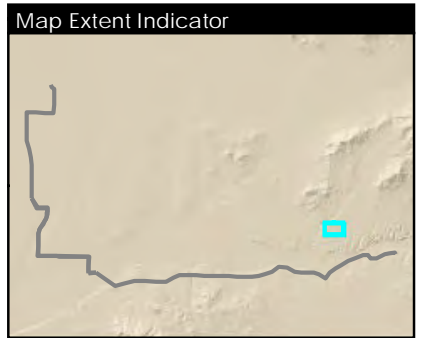
0 12.5 25 50 75 100 Feet

Aerial Imagery: 6/14/2016
Date Created: 11/6/2017





Legend
Tentative Marshalling Yard

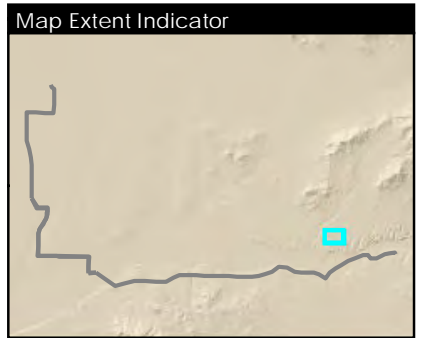


Scale = 1:1,500
0 12.5 25 50 75 100 Feet
Aerial Imagery: 6/14/2016
Date Created: 11/6/2017
PANORAMA



Clay Marshalling Yard

Legend
Tentative Marshalling Yard



Scale = 1:1,500
0 12.525 50 75 100 Feet
Aerial Imagery: 6/14/2016
Date Created: 11/6/2017
PANORAMA