Palmdale Hybrid Power Project

Supplemental Responses to CEC Data Requests Set 1

Docket 08-AFC-9



DOCKET

08-AFC-9

DATE FEB 28 2009

RECD. MAR 03 2009

Submitted on Behalf of:



Submitted by:



Submitted to: California Energy Commission March 2, 2009

Prepared by:



PALMDALE HYBRID POWER PROJECT

Supplemental Responses to CEC Data Requests Set 1

Docket No. 08-AFC-9

Submitted on behalf of: City of Palmdale

by: Inland Energy, Inc.

Submitted to:
California Energy Commission

Prepared by: AECOM Environment

March 2, 2009

Technical Area: Land Use Supplemental Response Date: March 2, 2009

Following is a supplemental response to the CEC Land Use Data Requests that addresses a question raised at the February 4, 2009 Workshop.

Workshop Question Related to Palmdale Planning Commission Public Meeting held February 19, 2009:

The response to Data Request 28 indicated that the City expects to consider the General Plan Amendment and Zoning Change Planning Commission meeting in February. Please provide an update on the results of the Palmdale Planning Commission Public Meeting held on February 19, 2009 regarding General Plan Amendment (GPA) 09-01, Zone Change (ZC) 09-01 and Tentative Parcel Map (TPM) 070999.

Supplemental Response to Data Request 28:

Palmdale City Staff recommended that the Planning Commission take the following actions with respect to General Plan Amendment (GPA) 09-01, Zone Change (ZC) 09-01, and Tentative Parcel Map (TPM) 070999: 1) Adopt Resolution No. PC-2009-006 recommending that the City Council approve General Plan Amendment (GPA) 09-01; 2) Adopt Resolution No. PC-2009-007 recommending that the City Council approve Zone Change (ZC) 09-01; and 3) Adopt Resolution No. PC-2009-008 approving Tentative Parcel Map (TPM) 070999.

These are all proposals by the City of Palmdale for the following entitlements related to early activities associated with the PHPP: a) General Plan Amendment (GPA) 09-01 is a proposal to amend the General Plan Land Use designation on 613.4 gross acres from SP-10 (Palmdale Business Park Specific Plan) to IND (Industrial); b) Zone Change (ZC) 09-01 is a proposal to amend the Zoning designation on 613.4 gross acres from SP-10 (Palmdale Business Park Specific Plan) to M-2 (General Industrial); and c) Tentative Parcel Map (TPM) 070999 is a proposal to subdivide the existing 613.4 gross acre site into two parcels to include existing lot consolidation, abandonment of existing rights-of-way and easements as necessary, and dedication of new rights-of-way and easements. Additional details of the proposed actions are provided in the two attachments (GPA, ZC, and Parcel Map Petition and Planning Commission Meeting Agenda) provided at the end of this Land Use section.

At the February 19, 2009 Planning Commission meeting, the General Plan Amendment, Zone Change, and Tentative Parcel Map (for the PHPP site and laydown area) were all approved subject to approval by the City Council meeting scheduled for April 1, 2009. No public comments were received, and City Staff were able to answer the Commission's questions to their satisfaction. The Zone Change will need to go back for a second reading on April 15, 2009 and becomes effective 30 days later (May 15, 2009).

LU-1 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

Data Request 31:

For each specific land use and zoning designation traversed by the proposed project linear facilities as described in AFC Tables 5.7-2b and 5.7-3b, please provide the applicable General Plan policies and zoning code section and the city's consistency determination of the particular project component with each of those policies and zoning requirements, and justification for consistency. For an example of this type of LORS consistency analysis, please refer to the Land Use section of any of the recently published Energy Commission Staff Assessments.

Response:

The following table provides the applicable City of Palmdale General Plan policies, zoning code section, and consistency determination and basis for each specific land use and zoning designation traversed by the PHPP project linear facilities as described in AFC Tables 5.7-2b and 5.7-3b. This is followed by a narrative summary of land use designations in the portion of the transmission line that traverses Los Angeles County.

City of Palmdale

	LORS		
Source	Policy and Strategy Descriptions	Consistency Determination	Basis for Consistency
Local	City of Palmdale		
General Plan Land	The proposed PHPP site is	Yes	Consistency with the City's
Use Map	currently designated		General Plan is outlined
	"Specific Plan" but is subject		below.
	to a current General Plan		
	Amendment to modify the		
	property's land use		
	designation to "Industrial".		
	The transmission line		
	alignment is proposed over		
	properties with "Industrial"		
	and "Business Park" land		
	use designations.		
General Plan -	Adopt land use and	Yes	Construction of the PHPP
Land Use Element	development policies which		will create local
Goal L2	encourage growth and		employment and provide
	diversification of the City's		revenue to the City,
	economic base.		facilitating economic
			development activities.

LU-2 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

General Plan –	Promote creation and	Yes	Construction of the PHPP
Land Use Element	retention of businesses	163	will create local
Objective L2.1	within the city, to increase		employment and provide
Objective L2.1	employment opportunities		revenue to the City,
	1		-
	within the Antelope Valley		facilitating economic
0 10	5	.,	development activities.
General Plan –	Provide opportunities for a	Yes	Construction of the PHPP
Land Use Element	wide range of manufacturing		will create local
Goal L5	and related industrial uses in		employment and provide
	the City, so as to facilitate		revenue to the City,
	expansion and diversification		facilitating economic
	of the City's economic base		development activities.
	and provide additional		
	employment opportunities.		
General Plan –	Provide sufficient land to	Yes	The transmission line
Land Use Element	accommodate a wide variety		alignment traverses
Objective L5.1	of industrial uses to meet		properties designated
	community needs.		"Industrial" and "Business
			Park" on the City's General
			Plan Land Use Map. These
			designations are consistent
			with the extension of
			electrical infrastructure.
			Further, the development of
			PHPP and the construction
			of linear utilities will not
			preclude future industrial
			development, as extensive
			undeveloped industrial and
			business park lands will
			remain.
General Plan –	Descriptions of "Business	Yes	PHPP, and its associated
Land Use Element	Park" and "Industrial" Land		linear infrastructure, is
Policy L5.1.1	Use designations		consistent with the stated
(subparagraphs 2	3		intent of these land use
and 3)			designations.
General Plan –	Discourage encroachment of	Yes	PHPP is consistent with the
Land Use Element	incompatible uses into or		Industrial land use
Policy L5.2.1	adjacent to designated		designations and is not
. 5110, 201211	industrial land, when it can		considered an incompatible
	be shown that such uses		land use.
	may ultimately impede		
	development of industrial		
	development of industrial		

LU-3 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

	uses, and that such uses may be established elsewhere in the Planning Area.		
General Plan – Land Use Element Policy L5.2.5	Designate land and adopt development standards so as to provide an appropriate mix of industrial uses, including labor intensive, light manufacturing, warehousing and spaces for small shop industries.	Yes	PHPP is situated on land that is designated for general industrial uses and the character of the proposed facility will be consistent with the scale and intensity of future industrial development in the vicinity. The closest industrial use is Site 1, located on Air Force Plant 42. This facility consists of several large aircraft hangars and the height, scale, and massing of these buildings is consistent with PHPP as proposed.
General Plan – Land Use Element Policy L5.2.7	Adopt performance standards for noise, odors, emissions, vibrations, glare, radiation and other potential impacts of industrial development.	Yes	The City's Zoning Ordinance contains standards for noise, light and glare, setbacks, lot coverage, and other development design parameters. PHPP is consistent with all industrial standards contained in the Zoning Ordinance.
General Plan – Land Use Element Objective 6.1	Ensure that adequate land is available for uses serving or providing benefit to the general public.	Yes	PHPP will provide efficient electrical energy, including renewable energy, which will benefit the public.
General Plan – Public Services Element Goal PS1	Ensure that adequate public services and facilities are available to support development in an efficient and orderly manner.	Yes	PHPP will increase the supply of electrical power in the local power grid, providing benefit to and supporting existing and future development in the Antelope Valley.

LU-4 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

General Plan –	Ensure that new	Yes	PHPP will support future
Public Services	development is coordinated		continued growth locally
Element Objective	with provision of backbone		within the Antelope Valley.
PS1.2	infrastructure within the site		Further, the alignment of
	and within adjacent		linear infrastructure serving
	properties, to promote cost-		the project has been
	efficient construction and		coordinated with backbone
	maintenance, and ease of		infrastructure plans for
	access to facilities.		recycled water. The
			transmission line alignment,
			as proposed, has the least
			impact on nearby Plant 42
			and developed properties,
			than other alignments
			previously considered.
General Plan –	Coordinate with other	Yes	The facility and linear
Public Services	jurisdictions in the Antelope		infrastructure have been
Element Objective	Valley to provide for regional		coordinated with Air Force
PS1.5	infrastructure improvements,		Plant 42, FAA, Southern
	minimize impacts of		California Gas, Los Angeles
	Palmdale development on		County Sanitation District,
	adjacent jurisdictions, and		Palmdale Water District,
	provide unified support for		Los Angeles County and
	mutually beneficial		City of Lancaster.
	improvements requiring		
	outside approvals and/or		
	funding		
General Plan –	Ensure that utilities are	Yes	PHPP will fulfill this
Public Services	provided to serve		objective by creating an
Element Objective	development in Palmdale in		additional source of
PS1.6	an efficient and aesthetic		electrical power to serve
	manner.		local communities. The
			facility is designed to be
			energy efficient and
			aesthetic features, such as
			perimeter landscaping
			along Avenue M, will be
			incorporated into the project
			design where possible.
General Plan -	Through adoption of an	Yes	The City has adopted an
Public Services	ordinance, regulate utility		ordinance requiring
Element Policy	line and other utility		placement underground of
1.6.1	infrastructure placement and		overhead electrical

LU-5 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

	require under-grounding where feasible.		distribution lines, as well as phone and cable lines. The transmission lines associated with PHPP are exempt from the City's ordinance based on their high voltage.
General Plan – Public Services Element Policy 1.6.2	Coordinate installation of utility line placement with street construction where possible.	Yes	The proposed location of the PHPP transmission lines follows existing or planned arterial streets from the power plant site to the connection with the utility corridor at Pearblossom.
General Plan – Public Services Element Policy 1.6.3	Through the development review process, protect existing utility easements and require dedication of additional easements where needed.	Yes	As development occurs on properties adjacent to the linear infrastructure alignments, City policy will provide for consideration and protection of those facilities during the entitlement process.
City of Palmdale Zoning Map, Zoning Ordinance Article 62	The site proposed for PHPP is currently zone "Specific Plan;" however, it is the subject of a current zone change to change the zoning to "General Industrial (M-2)." The transmission lines pass over properties designated Light Industrial (M-1), General Industrial (M-2) and Planned Industrial (M-4).	Yes	The project is consistent with the Industrial zoning designations contained in the City's Zoning Ordinance. "Utility Facilities" are principally or conditionally permitted uses in all Industrial zones.

Los Angeles County

The following narrative pertains to the portion of the PHPP transmission line that traverses the unincorporated areas of Los Angeles County.

The transmission line routes are adjacent to portions of Los Angeles County as they travel along E Avenue L to the north, county areas east of Palmdale in the vicinity of 100th to 120th Streets E, when on the south side of E Avenue Q, and along 120th Street East, E Avenue S, and 126th Street E from Avenue Q south to Avenue V, along Lone Oak, and then west along the existing power lines to the

LU-6 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

Angeles Forest Highway. The transmission line within unincorporated area is located in areas that are designated for low density land uses with agricultural zoning designations as noted in the following discussion.

To the north of E Avenue L between 40th Street East to approximately 100th Street East, the properties in the Los Angeles County areas have Land Use designations of N-1 (Non-Urban 1; .5 dwelling units per acre (du/ac)) and N-2 (Non-Urban 2; 1.0 du/ac). The corresponding zoning designations in these areas are A-1-1 (Light Agriculture; 1 acre minimum lot size) and A-2-2 (Heavy Agriculture; 2 acre minimum lot size).

The transmission line then passes through the City on various alignments at approximately 105th Street East and at Avenue P west of 100th Street East enters County jurisdiction. The Land Use designation in this section is P (Public Service Facilities) with a zoning designation of A-1-1 (Light Agriculture; 1 acre minimum lot size).

At 100th Street East, the Transmission line travels east on the south side of Avenue Q with adjacent county areas having a Land Use designation of N-2 (Non-Urban 2) (1.0 du/ac) and a corresponding zoning designation of A-1-1 (Light Agriculture; 1 acre minimum lot size).

At Avenue Q and 120th Street east, the transmission line travels south on the west side of 120th Street East extending south to Avenue S with adjacent properties in the County having a General Plan Land Use designation of N-1 (Non-Urban 1; .5 du/ac) and a corresponding zoning designation of A-1-1 (Light Agriculture; 1 acre minimum lot size) or A-2-2 (Heavy Agriculture; 2 acre minimum lot size).

At Avenue S, the transmission line travels east to 126th Street East and extends south to Avenue T, Avenue U, and Ewen Avenue. The site area has a General Plan land use designation of N-1 (Non-Urban 1; .5 du/ac) and a corresponding zoning designation of A-1-1 (Light Agriculture; 1 acre minimum lot size) or A-2-1 (Heavy Agriculture; 1 acre minimum lot size).

From this point the transmission line travels southwest from Ewen Avenue and 126th Street East to 116th Street East north of Avenue V. Land Use designations in this area are N-1 (Non-Urban 1; .5 du/ac) and a corresponding zoning designation of A-2-1 (Heavy Agriculture; 1 acre minimum lot size) as well as P (Public Service Facilities) with an O-S (Open Space Zoning).

To the west of 116th Street East, the transmission line crosses the California Aqueduct, Pearblossom Highway and continues in a westerly/southwesterly direction crossing Avenue V towards Cheseboro Road and the Littlerock Wash, 57th Street East to 47th Street East. The properties in this Section have a Land Use designation of N-1 (Non-Urban 1; .5 du/ac) and a corresponding zoning designation of A-2-1 (Heavy Agriculture; 1 acre minimum lot size).

As the transmission line progresses westerly to the termination point, the properties have a Land Use designation of N-1 (Non-Urban 1; .5 du/ac) and a corresponding zoning designation of A-2-1 (Heavy Agriculture; 1 acre minimum lot size).

LU-7 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

Data Request 39:

Please specify which portions (specify distance and locations) of the 23.7-mile Segment 1 require new transmission line right-of-way, and which portions are within existing rights-of-way. This is especially important given that each new pole along new right-of-way areas would need a stub road.

Response:

For all 23.7 miles of Segment 1, the PHPP transmission line will require a new transmission line right of way in the form of a utility corridor easement. The stub roads are expected to be covered by the utility corridor easement. Their average size along Segment 1 will be approximately 16 ft wide and approximately 15 ft to 30 ft long.

Data Request 40:

Please specify whether, or not, each stub road will remain in place permanently for access to the transmission line during operations and maintenance activities for the line. If not, please specify the number, location, and size (in width and length) of maintenance access roads for the transmission line.

Response:

The spur roads will all remain in place permanently along both transmission line Segments 1 and 2.

Data Request 41:

For the portions of Segment 1 that would be sited within existing rights-of-way, please specify what types of existing right-of-way would be used where these portions would be located.

- a. For example, discuss whether these existing rights-of-way would be in public roadways, other existing utility corridors, etc.
- b. Discuss whether there is sufficient room (i.e., width) within these existing rights-of-way to site the proposed 230 kV transmission line.

Response:

a. As discussed in the response to Data Request 39, the City will acquire a new utility corridor easement that is a total of 50 feet in width. The utility corridor easement will begin 50 feet from the centerline of the street and extend outward to a point 100 feet from the centerline of

LU-8 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

the street. Easements for the access roads will be added as needed where the edge of the street ROW and the utility corridor easement do not meet. Please see Figure DR-41A for a diagram of a typical spur road installation relative to a single circuit transmission line.

b. After review and technical discussion with PAR Electric Inc. (transmission line consultant/constructor), a 50 foot utility corridor is sufficient width for a double circuit 230 kV transmission line. Please see Figure DR-41B for a diagram of a typical spur road installation relative to a double circuit transmission line.

Data Request 42:

Given that new right-of-way would be needed for portions of Segment 1, please specify the width of the right-of-way required for the proposed 230 kV transmission line in both urban and rural lands being traversed. Note that transmission line right-of-way width requirements are different (i.e., greater) in urbanized areas due to the potential for development in close proximity to high voltage lines.

Response:

The required utility corridor easement per PAR Electric will be a minimum of 50 feet in width for transmission line Segment 1. Segment 1 is to be constructed within an unimproved rural setting. Please see Figure DR-41A. The utility corridor easement's width of 50 feet is consistent with applicable transmission line right-of-way requirements for rural and urban areas.

Data Request 43:

Would the 200 X 200 feet of disturbance for each pole foundation be temporary or permanent disturbance (i.e., for maintenance activities)?

Response:

There will be a 50 foot radius (100 foot diameter) work area around each pole used for temporary easement and ground disturbance. The pole base/foundation will be an approximately six foot radius (12 foot diameter) concrete slab and will be a permanent disturbance.

Data Request 44:

Please specify approximately how many pulling sites would be required along the entire 35.6 miles of transmission line right-of-way.

LU-9 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

Response:

There will be a total of 23 pull-sites (each approximately 100 feet wide by 200 feet long).

Data Request 45:

Please specify the total amount of land disturbance (in acres) resulting from each pulling site.

Response:

Approximately 10.5 acres of land will be disturbed. ((23 sites x 100 ft x 200 ft) / 43,560 sq ft/acre)

Data Request 46:

Please specify the location and size (in acres) of the construction laydown and worker parking area for Segments 1 and 2 of the 35.6-mile transmission line.

Response:

- Area 1: North side of Avenue M between Pole # 6 and Pole # 7 (Segment 1) 1 acre.
- Area 2: East side of 126th St. E between Pole # 171 and Pole # 173 (Segment 1) 3 acres.
- Area 3: South of SCE ROW between Pole #84 and Pole #85 (Segment 2) 0.5 acre.

Data Request 47:

For Segment 2, please provide the following information:

- a. Specific data on the SCE transmission line (i.e., name and voltage) currently existing in the right-of-way that would be used for Segment 2;
- b. The width (in feet) of the existing SCE right-of-way between Pearblossom and Vincent Substations;
- c. Clarification as to whether there is sufficient room in the existing SCE right-of-way to accommodate the siting of a new 230 kV transmission line on tubular steel poles for 11.9 miles;
- d. If not, a description of how much additional width (in feet) would be required to accommodate the 230 kV transmission line in Segment 2;
- e. Indication as to what entity would own and operate the transmission line; Note that if the transmission line is not SCE-owned and operated, it would not be sited within an SCE right-of-way but rather would be sited in an adjacent right-of-way;

LU-10 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

f. If the 230 kV transmission line is sited in an adjacent right-of-way to the existing SCE right-of-way, describe the land that would need to be acquired to accommodate the line.

Response:

- a. While viewing west from Latitude N34°30'36.0" and Longitude W117°59'34.1" the H-Frame is in the third position from the right and is referred to as the Pearblossom line H-Frame SCE # 75. While viewing west from Latitude N34°36'48.7" and Longitude W117°56'42.1" the H-Frame is in the first position from the right and referred to as Pearblossom H-Frame # 96JCB.
- b. The width of the SCE Pearblossom to Vincent Corridor is approximately 840 feet.
- c. For Segment 2, there is sufficient room in the existing SCE right-of-way to support the construction and operation of the proposed transmission line. Per PAR Electric Inc. (transmission line consultant/constructer) there is sufficient room to inlay steel poles next to the existing Pearblossom H-frames. After the new poles are installed and strung with new conductors, the remaining unused H-Frames will be removed. According to PAR Electric, there is sufficient room available to perform this effort.
- d. There is sufficient ROW to perform this Pearblossom line Segment 2 upgrade.
- e. This line will continue to be owned and operated by SCE.
- f. The PHPP line Segment 2 will fit in the current H-Frame ROW.

Data Request 48:

For both Segments 1 and 2 of the transmission line, please provide the following information:

- a. A description of how the applicant (i.e., the city) intends to obtain the rights-of-way needed for siting of the 35.6 miles of transmission line;
- b. A description of any applicant plans to purchase lands through which the transmission line right-of-way would traverse, or to obtain easement agreements for the right-of-way;
- c. If land needs to be purchased for siting of the transmission line, a schedule for when purchase agreements would be executed to ensure that the transmission line right-of-way has been obtained;
- d. If the applicant intends on entering into easement agreements for the right-of-way, a schedule as to when these agreements would be in place;

Response:

The following response addresses all items a-d above. As discussed in the response to Data Request 39, the City will acquire a new utility corridor easement for Segment 1. The entirety of Segment 2 will be located in the existing SCE right-of-way. The utility corridor easement for

LU-11 Land Use

Technical Area: Land Use Supplemental Response Date: March 2, 2009

Segment 1 will be acquired by the City following CEC project approval, when project funding is secured. The City will utilize the standard process for acquisition of easements, as set forth in State law and the City's Municipal Code, and as appropriate to ensure fair and equitable business practices. Initially, the City will seek to acquire the necessary easement interests through purchase offers, based on appraised values. In the event that property owners are unwilling to negotiate and all other options have been exhausted, the City will utilize its eminent domain authority to acquire the necessary areas for the utility corridor easement.

Segment 1 will require that the City acquire a new utility corridor easement for its entire length from the plant site to the point where it enters the existing SCE ROW at the Pearblossom substation. There are approximately 230 parcels that will potentially be affected by the placement of Segment 1 of the transmission line. The parcels to be affected are shown on a map, "Power Project Transmission Line Route – Transmission / APN Map," provided at the end of this section. The map was developed by combining data layers from several different sources and the Applicant has made a concerted effort to accurately reflect the data provided. However, historical parcel data have been known to contain errors and omissions. As such, it is recommended that this representation be used as a general reference of parcel locations along the proposed transmission line route.

Segment 2 is proposed to use the existing SCE ROW from the Pearblossom Substation to the Vincent substation. Putting the new poles in this easement will be arranged with SCE.

Data Request 49:

Please specify the locations and distance along the 35.6-mile transmission line right-of-way of lands to be purchased vs. lands that would be leased for easement.

Response:

Directly adjacent to and parallel with the street ROW, the City will acquire a utility corridor easement for the entire length of transmission line Segment 1 as described in Response 41a. The remaining 11.9 miles (transmission line Segment 2) will be placed in existing SCE-owned ROW.

LU-12 Land Use

FIGURE 41-A. SEGMENT 1 TYPICAL CITY/ACCESS/SPUR ROADS R/W & EASEMENT FOR SINGLE CIRCUIT T-LINE

PRELIMINARY Not For Construction

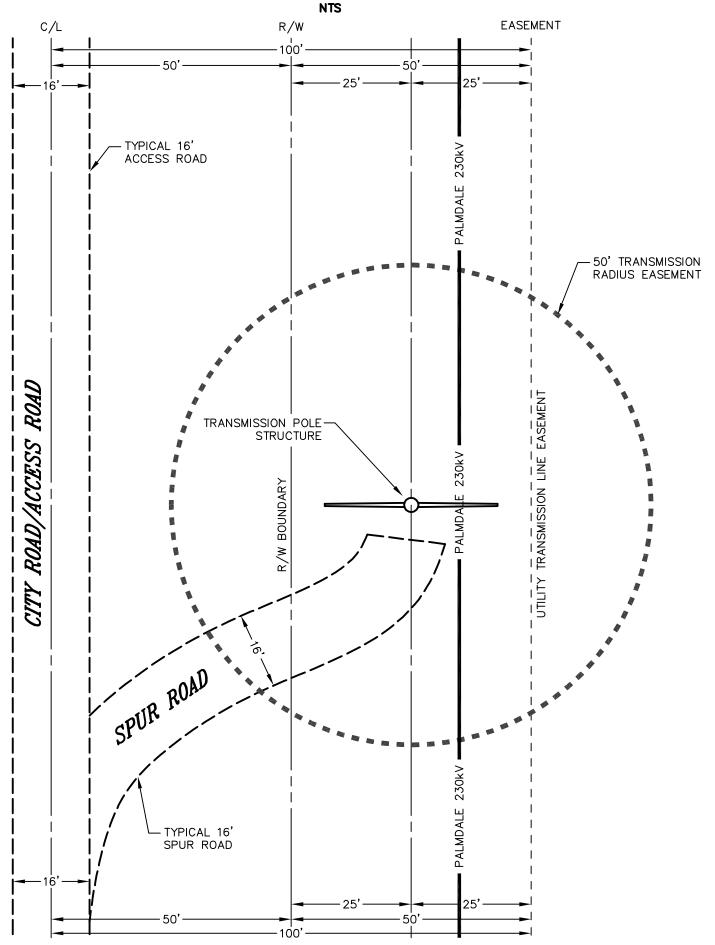
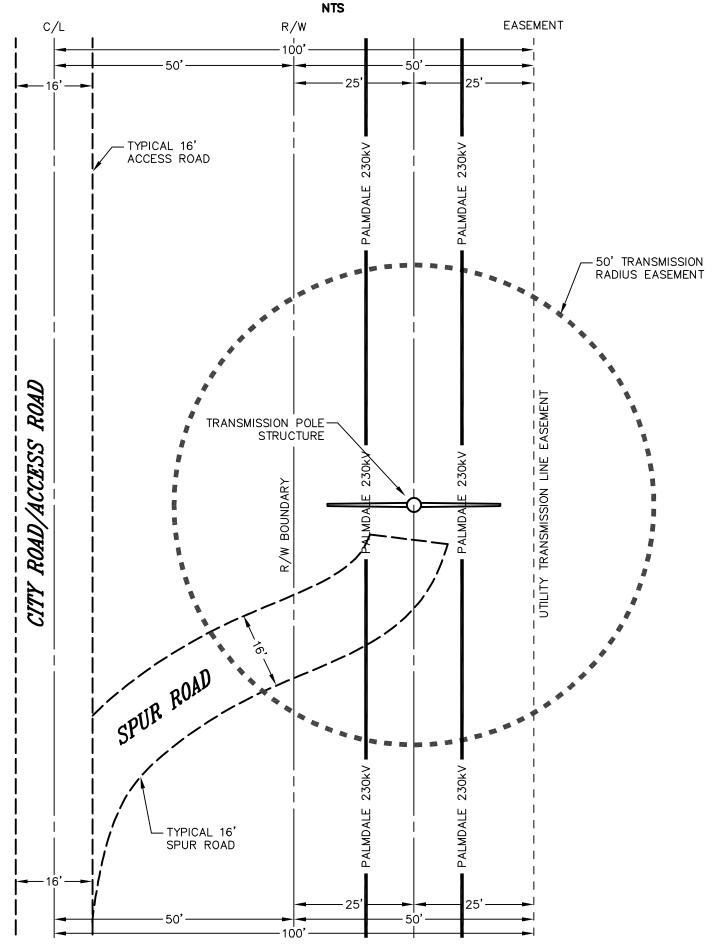
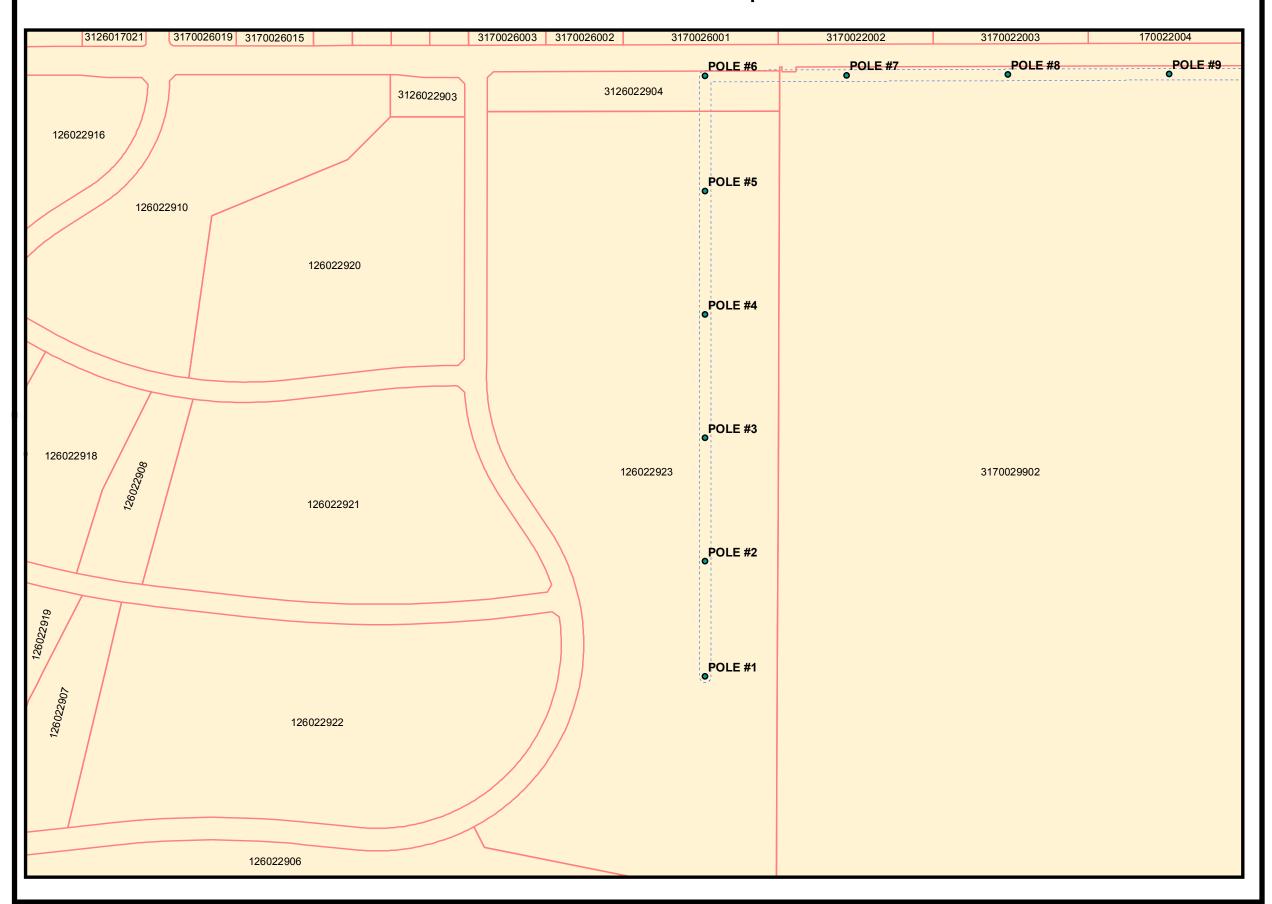
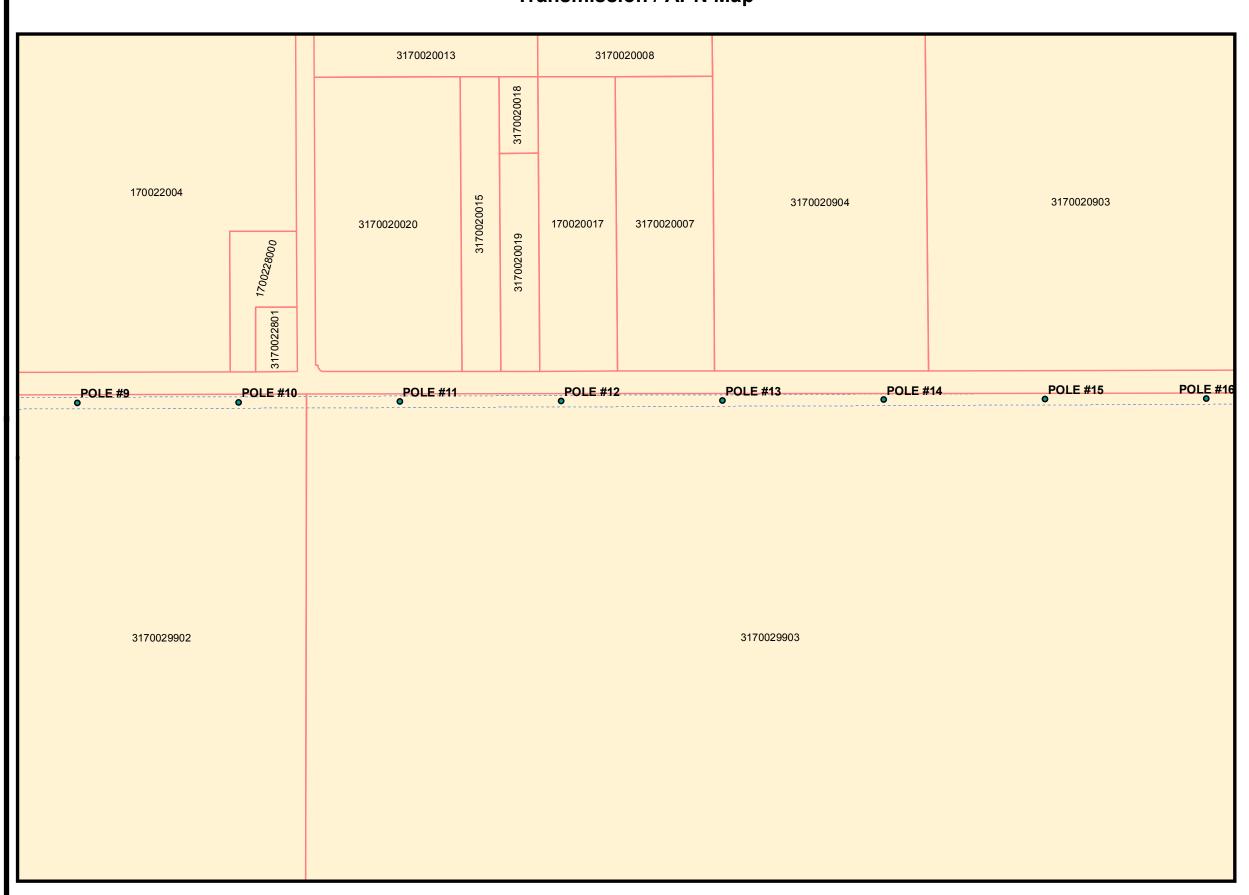


FIGURE 41-B. SEGMENT 2 TYPICAL CITY/ACCESS/SPUR ROADS R/W & EASEMENT FOR DOUBLE CIRCUIT T-LINE

PRELIMINARY Not For Construction







Palmdale Hybrid Power Project Tline Route **Transmission / APN Map** POLE #23 POLE #22 POLE #21 POLE #20 POLE #19 POLE #15

	70008908			3170019043 3170019063 3170019064 3170019068 3170019068 3170019068 3170019068 3170019068 3170019068 3170019068 3170019068 3170019068 3170019068 3170019068 3170019068 3170019068 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098 3170019098																		317	7000990)2					
															POLE #27	. <u></u>		POLI	= #28			PC	DLE #2	9		F	OLE#	30	
3170019132	3170019131	3170019061 3170019100	3170019035	170019063	170019029	170019070	170019068	170019032	170019028	170019064	170019104	170019103	170019096	170019106	3170019107	3170016049		31 / 100	3170016051	3170016052	170016071	3170016072	3170016073	3170016074	3170016036	31700	16010	3170016011	3170016078
		3170019101												6036	170019038		70016		31700°		317001		ა 31700		ი 31700	16083	31700		c
3170019130	170019118	3170019088														31	70016	002	31700 ⁻	16055	31700 ⁻	16035	31700	16059	31700	16030	31700	16009	
3170019121	3170019122	3170019074	3170019083 3170019046 170019046 3170019050 3170019084 3170019082 3170019083 3170019083													31	70016	8003	17001	6005	31700 ⁻	16084	31700	16017	31700	16045	31700	16046	
31700	515122	3170019075														31	170016	6004	17001	6021	31700	16085	31700	16069	31700	16044	31700	16008	
3170019123	³¹⁷ 0019124	3170019076	0 0 L 0 L 0 Q 0 0 0 0 0 0 0 0 0 0 0 0 0												3170019059	31	170016	6015	31700 ⁻	16062	31700	16039	31700	16068	1700	16064	31700	16032	
3170		3170019077	3170	3170	3170	3170	3170	3170	3170	3170	3170	3170	3170		3170019058 POLE #25	31	170016	060	31700	16061	31700	16042	31700)16025	31700	16007	31700	16031	
24	170010012								31	7001900)4	3170	019005		3170019006			31700 ⁻	17053		³ 1>00	⁰⁷ 7054	³⁷ 700	⁰¹ 7055		317	0017020	1	
3	170019012														3170019007					3170	0017021					317	0017022	<u>}</u>	
		31700	019002			31700	019003					31700	19008		POLE #24	3	170017	7034	3170017036	3170017026	3170017050	3170017049	3170017048	3170017047	3170017041	3170017042	3170017001	170017011	3170017012
3.	170019010															3	170017	7035						3170	-	3170		1700	
		24700												-	17001	_	3170017051	3170017052	3170017006	3170017046	3170017045	3170017004	3170017030	170017032	3170017043	3170017044	70017024		
		3170019009												POLE #23	3	17001	7038	317	317	317	317	317	317	317	171	317	317	317	
3.	170020006	3170	020005	j		3170	020004					31700	020001									17	7001808	1					
3	170020010					3170	020003		1			31700																	

					3170010035	317001	0028	3170010027	3170010026	3170010025	3170010024	3170010023	3170010022		170013027	
											31700	11004		31700	013009	13010
		3170009902			31700	011001		3170011002	3170011003	³¹⁷⁰⁰¹¹⁰⁰⁷	³¹⁷ 0011006	17001	11005			3170013010
								3170	3170		31700	11008		31700	013008	3170013028
										31700	011010	3170011011	3170011012	3170013007	3170013006	31700
		POLE #30		POLE #31		POLE	#32		POLE #33		POLE #34	4	POLE #3	35	POLE #	36
3170016073	90 90 90 90 100 100 100 100 100 100 100	3170	3170016078	3170016048		3170015010										
3170016058 3170016059	3170016083 3170016030	3170016082	3170016079	3170016081		317(
		3170016009	3170016080	3170016066	10		03	40	05							
3170016017	3170016045	3170016009	3170016080 3170016013		3170015001	15009	3170015003	3170015004	3170015005		31700	15006			3170014012	
	3170016045 3170016044	3170016046	3170016013	3170016027	7	3170015009	3170015003	3170015004	3170015005		31700	015006			3170014012	
3170016069 3170016068	3170016044 170016064	3170016046 3170016008 3170016032	3170016013 3170016014 170016019	3170016027 3170016075 3170016076		31	3170015003	3170015004	3170015005		31700	15006			3170014012	
3170016069	3170016044 170016064 3170016007	3170016046 3170016008 3170016032 3170016031	3170016013 3170016014	3170016027 3170016075 3170016076		3170015008 3170015009	3170015003	3170015004	3170015005		31700	015006			3170014012	
3170016069 3170016068 3170016025	3170016044 170016064 3170016007	3170016046 3170016008 3170016032 3170016031	3170016013 3170016014 170016019 3170016022	3170016027 3170016075 3170016076		31	3170015003	3170015004	317001	15007	31700	115006			3170014012	

Palmdale Hybrid Power Project Tline Route **Transmission / APN Map** POLE #35 POLE #36 POLE #37 POLE #41 POLE #42POLE #43 POLE #38 POLE #40

				338600)4006	3386004009	338600	04010			33860	05007			3386	6005009)
							338600	04020	3386006001	3386006032	3386006009	3386006038	06037		3386006025	3386006024	3386006028
3170012002	3386004019		3386004011	3386004012	3386004013	3386004014	338600	04022	3386006002	3386006033	33860	33860	3386006037	3386006011	3386006026	3386006027	3386006019
			33860	33860	3386(3386	3386004023	3386004024	3386006003	3386006005	3386006007	3386006036	3386006035	3386	338600	96017	3386006016
		3386004018							3386006004		3386006006				338600		3386006030
POLE #42 POLE #43	POLE #44 POL	E #45	POL	E #46		POLE #47			POLE #4	8		•	POLE #49)	0	POLE	#50
3170014012		3386028014				33860	28012				33860	028002				6028016 6028017	
3170014009				33860	28015	33860	28013				33860	028010			3386	6028018	В

l												33860	08043	33860	08027	33860	08028				
05007				33860	005009		33860	08011			3386008012	33860	08042	38600	8025	33860	08034		338601000	09	
3386005007											3386		00042	33860	08032	33860	08035				
	3386006025	3386006024	3386006028	3386006029	3386006022		3386009032		33860	09014		3386009020	3386009027	33860	09023	3860-	+9026				
	3386	3386	3386	3386		3386009001	9032					3386	3386	33860	09022	38600	09025				
	3386006026	3386006027	3386006019	3386006020	3386006021	3386	3386009031	4	33860	09018		3386009029	3386009030	33860	09015	33860	09016	5	75	33	4
3386006011	3386	3386	3386	3386				3386009004				338(338	33860	09017	33860	009012	3386011001	3386011002	3386011003	3386011004
3386		006017	3386006016	3386006015	3386006014	3860	09+03	338	3386009005	3386009019			33860	09007				338	338	338	338
	33860	006012	3386006030	3386006031					3386	3386											
		POLE			POLE #51	POLE #	52 POLE#	53		PO	LE #54P	OLE #5	5		F	OLE#	56		POLE #57	PO	LE #58
								024007										33860		38602300	
86028002				33860	28016		33860	024018						3386024003	3386024002	3386024019	386024020		338602300	03	
338602				2222	00047	3386	024011	33860	024010		33860	24006			33860	24004			338602300)4	
				33860	28017		3386)24012							3860	24016		3386023005	3386023006	3386023007	3386023008
							3386	024013							33860	24017		25005	3000020000	3-00020007	33860
3386028010				33860	28018					3386	024014								38602300	9	
3386																			33860230 ⁻	10	

		3386010020	3386010021	338601	0017											3386014	014
33860	010009	3386010010	3386010011	3386010019	3386010018						33860	014001				3386014019 3386014	.016
3386011003	3386011004	3386011008	3386011009	338601							3386	014002				3386014	.003
3386	3386	3386	3386	338601	1006						33800	014002				0000014	
	POLE #58		POLE #59		POLE #	60	0	POLE #6	31		POLE #	62	POLE	#63	POLI	E #64	POLE#
	23002		338602	3022		3386017009	3386017008	3386017007	3386017006	000	33860170	026	3386017025	386	6017024	3386015010	
		3386023035	3386023036	3386023018	3386023030	010							3386017017		3386017030	3386015011	
33860	023004	3386023026	3386023020	3386023033	3386023031	338601701		17012	0,70	1,7013	17014	17015	3386017028	200047070	3386017029	386015027	5013
200				33860		3386017012	0	338601 /013	3386017014	3386017015	3386017027	386017270	3386017020	3386015028	386015013		
3386023007	3386023008	3386023034 3386023019 3386023028 3386023024											3386017023		3386017019	3386015029	
	23009		338602	23016	3386018028		3386018009	3386018008	3386018007	3386018006	3386018004	3386018021	3386018002	3386018001	3386016023		
38602						88		\approx	×	10						• • • • • • • • • • • • • • • • • • • •	

5		33860	014014															
3386014001	3386014019	3386014020	33860)14021	33860	014022		338601	14005				3378	3002004				
3386	33860	14016		33860	014017													
		714010		33000	714017													
3386014002		33860	014003					338601	14004				3378	9002003			3378002002	
POLE	#64	POL	E #65			PC	LE #66	P	OLE #67	 	PC	LE #68		POLE #69		POLE #70	<u> </u>	POLE #71
		σ.			900				OLE #67 2009	201		3378027012	3378027013	3378027020	3378027021	POLE #70 932208228	3378027027	POLE #71 ● 3378027028 8 3378027028
386017024	3386015010	3386015009	3386015008	3386015007	3386015006	3386015005	3386015004	3386015003	3386015002	386015001		3378027015	3378027014	3378027023	3378027022	3378027033	3378027034	3378027025
	3386015011								3386015030			3378	027016					005
	386015027		7047	50 I 4	33860)15020	3386015025	15017	3386015031	15019		3378	3027017			37802	3378027030	3378027005
	3386015028	386015013	3386015014	23000	33860)15021	3386015026	3386015017	3386015023	3386015019		3378	3027018	33780	27008	20700	27024	27032
	3386015029				33000		30000100=0		3386015024			3378	3027019			33780	27031	3378027032
	123	3386016069	33860	016059	33860	016074	3386016055		3386016051	000						33780 33780		
8001	3386016023			016060	33060	016073	3386016056	3386016027	3386016052	3386016002		2270	3028028	22700	28020	33780	28021	3378028001
3386018001	33(3386016070	33660	10000	33800	710073				33		33/8	0020020	33780.	20029	37802 33780		0070000
	3386016022	3386016071	33860			016048	3386016057	3386016028	3386016053	3386016001						33780		3378028009

							_										
													3378	004016	33780	004015	3378004033
	3378002002			3378(002005					337800					378004008		
	POLE #7	1	POLE	#72	POL	E #73		POL	E #74		POLE #75	- 	F	OLE #76		POLE #77	
3378027027	3378027028 # 2	3378027024				3378025005	5022				3378025007		386708	3378021007	3378021006	3378021005	378021004
3378027034	337802		3378025001	3378025002	378025270	3378025004	3378025022	3378025031	378025030		3378025008				No see see see see see see see see see se	3318021012	35T807.013
378027270	3378027005			3378025020	sala da					3378025028	3378025024		3378021024	3378021023	318021022	3378021021	318021270
3378027030	33780	378027006	3378025021	3378025019	Sy.	3378025014	3378025013		3378025012	33780	3378025025		33780	3318°	318 ^{N°}	331 ⁶⁰	318 ³⁾
27031	3378027032	37802	33780	3378025018	33.00 Sep. 10.00 Sep.	33780	33780		33780	3378025029	3378025026		3378021025	37802,026	37802,027	318021028	SA S
3378027031	33780			3378025017	,					33780	3378025027		33780	318 ⁰⁰	37805	31 ⁸⁰	³⁵ Solution (1997)
3378028019 3378028020	207222	2004			September 1	5780EROES	20-	7802600	14	378026003	3378026019				337802-2001	3318022008	3378022018
3378028021 378028022	337802	000 I	33780	26008	E. S.	31801	331	002000	- 1	37802	3378026020		3378	022025	33786	33 ¹⁸⁰	₃ 318 ⁸
3378028007 3378028032	337802	8009			3378026014	3378026015		337802	26016		3378026021				3378022002	3378022007	3378022010
3378028033	337802	8010									3378026022						

						4	<u>6</u>	2	<u> </u>	0.	თ	33780	04017	3378	3007006	
337	78004015	3378	004033	33780	004034	3378004024	3378004023	3378004022	3378004021	3378004020	3378004019	37800)4018	378	007011	
						337	337	337	337	337	337	01000	71010	33780	007010	
							4046					22700	0.4025	3378007004		
						14045)4047)4048	04049	04050	33780	04035	33780	007003	
		37;	3004008			3378004045	3378004046	3378004047	3378004048	3378004049	3378004050	33780	04036	3378007002		
		371	300+000			3378004044	3378004043	3378004042	3378004041	3378004040	3378004039	337800	04037	3378007001		
								337.	3378	3378	3378	3378004038				
<u>o</u>	POLE #77 POLE #78			POLE #79		POLE #80		POLE #	31	POLE	#82	POLE #83	10	$\omega_{\!_{\! 4}}$		
3378021006	3378021005	378021004	3378021003	3378021002	3378021001	3378017008	3378017007	3378017006	3378017005	3378017004	3378017003	3378017002		3378013001	378013270	
3378021011	3318021012	3378021013	September 1	3.500 SON	33,200,707.6	3378017009	378017010	3378017011	378017012	³³⁷⁸⁰¹⁷⁰ 13	3378017014	³³⁷ 801 ⁷⁰¹ 5	POLE #84	3378013002	3318013001	
378021022	3318021021	318021210	STONE	3318021018	35BO2017	3378017024	3378017023	33,807022	380702	3318017020	³³⁷⁸⁰¹⁷⁰¹ 9	³³⁷⁸⁰¹⁷⁰¹⁸	3378017017	3378013003	33,7807,3006	
378021027	378027028	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	32, 80,2 1030	35. Sep. Sep. Sep. Sep. Sep. Sep. Sep. Sep	33TBU21032	3378017025	3378017026	³³ >8017 ₈₂ >	33,801/28	A CONTRACTOR OF THE PARTY OF TH	3378017030	33,801,703,7	POLE #85	378013272	^{337,807,300} 5	
3378022001	3318022008	33T887210109	3378022016	3578522217	3378022024	33,80,800	35/80/8001	35,80,800 800,800	\$00.00 \$000.00	57,000	³³⁷⁸⁰¹⁸⁰⁰³	318018211	3378018001	3378014001	3378014002	
	3378022007	3378022010	3378022015	3378022018	3378022023	3378018009	3378018010	378018011	3378018012	378018273	378018274	3378018015	3378018016	33780	014003	

3378021017	3378017024	3378017023	3378017022	378017021	3378017020	3378017019	3378017018	3378017017	3378013003	3378013006	33780	13011	33780	13014	3378013031	3378013032	
3518021032	3378017025	3378017026	33,80,702>	33/80/1/2/8		3378017030	3328017037	POLE #85	378013272	33780 ₇₃₀₀₅	³³ ,80	073072	³³ >80	⁰¹³ 013	3780/3034	33780 ₇₃₀₃₃	
3378872724	33.80/8008	3318018001	33.801800	33.80/80/S	SA S	3378018003	318018271	3378018001	3378014001	3378014001		3378014010		⁰¹ 4011	³³ > _{807,407,>}	³³ >80 ₇₄₀₇₈	
37802022	3518018018	3318018010	378018011	3378018012	³⁷⁸ 078273	378018274	33TBOTBOTS	POLE #86	3378	3378014003		33780718009		⁰¹ 4012	33780 ₇₈₀₂₀	337.80 _{7.80}	3378014016
3318002022	31801802 ⁴	3318018023	5780 BOZZ	3318018021	0,100 to	378078275	318018272	3378018017	3378	3378014004		3378014008			^{337,80} 1,40,2,1	^{337,80} 14022	33780
357800202	318*18025	33T8018026	siente and	3378018028	35TBOTBOD	STORY TO STO	3378078037	POLE #87	3378	3378014005		37 ₈₀₇₄ 900		⁰¹ 400>	337 ₈₀₇₈₀₇₅	³⁷⁸⁰¹⁴ 901	
3378023001	3318019008	33 ⁷⁸⁰¹⁹⁰⁰ 1	steriore.	33 ⁷⁸⁰ 19005	33T801900A	35/801/90°3	şianagî.	3378019001	2270			3378015009	3378015010	3378015011	³³ 780 ₇₅₀₇₂	³³ >80 ₇₅₀₇₃	3780150200
3378023013	^{33,} 00,000	45. 60.00.00	³³ 78019011	3318018012	33,807807.3	33T801901A	3378019015	POLE #88	3376	015001	³³⁷⁸⁰¹⁵⁰²³		378015+24 3378015025		³³⁷⁸⁰¹⁵⁰²⁹	³³⁷⁸⁰¹ 5028	3378015019
3378023012	3318019024	3378019023	3318019022	3378019021	3378019020	salanan a	\$7.80.00 81.80	3378019017	3780	015901	1 33780		3378015006		15015	³³⁷⁸⁰¹ 5032	3378015018
3378023005	378019025	3318019026	3318019021	33 ⁷⁸⁰¹⁹⁰²⁸	3378019029	3378019030	33780190 ³¹	POLE #89	3378015026	3378015027 3378015027		3378015900	³³⁷ 80	⁰¹ 5005	3378015015	³³⁷⁸⁰¹ 5033	3378015017
3378024006	3378020108	3378020001	3780209000	3378020005	3378020004	3378020003	3378020002	-0		016021 016022	³³⁷⁸⁰	⁾¹⁶⁰³⁰	³³⁷ 80	⁰¹ 6008	3378016015	3378016016	3378016018
3378	3378020009	3378020010	3378020011	3378020012	3378020013	3378020014	3378020015	3378020016	3378	016005	33780	16029	3780 ⁻	16026	3378016014	3378016013	3378

3378023005	378019025	3378019026	3378019027	3378019028	3378019029	3378019030	3378019031	3378019032 POLE #89	3378015026	3378015027		3378015005	3378015015	3378015033	3378015017	
	3318020008	3318020007	₃₇₈ 0209000	₃₃ 78020005	3 ³⁷⁸⁰²⁰⁰⁰⁴	33 ⁷⁸⁰²⁰⁰⁰³	3378020002	3378020001	33780		³³⁷ 801 ₆₀₃₀	³³⁷⁸⁰¹⁶⁰⁰⁸	3378016015	3378016016	3378016018	
3378024006	33 ¹⁸⁰²⁰⁰⁰⁹	3378020010	3378020011	3378020012	3378020013	3378020014	3378020015	POLE #90	3378016005 ³³		³³⁷⁸⁰¹⁶⁰²⁹	³⁷⁸⁰¹⁶⁰²⁶	3378016014	³³⁷⁸⁰¹⁶⁰¹³	33780	
33780	33780 ²⁰⁰²⁴	3378020023	3378020022	33780 ²⁰⁰²¹	3378020020	33T80Z0019	3378020018	3378020017	3378016004 3780169000		3378016028	³³⁷⁸⁰¹⁶⁰²⁷	3378016011	3378016023 378016024	3378016019	
		3378020025	378020026	3378020027	3378020028	3378020029	3378020030		3378016001	3378016002	33780	3378016010	33780	33780	33780	
POLE #91																
	3380004008	3380004007	3380004006	3380004005	3380004004	3380004003	3380004002	3380004001	3380007001	3380007008	3380007009	3380007016	3380007017	3380007024	380007025	
	3380004009	3380004010	³³⁸⁰⁰⁰⁴⁰¹¹	³³⁸⁰⁰⁰⁴⁰¹²	³³⁸⁰⁰⁰⁴⁰¹ 3	³³ 80 ₀₀₄₀₁₄	³³⁸ 000 ₄₀₇₅	()	3380001002	3380001001	3380007010	3380007015	3380007018	3380001023	3380007026	
90	338000A01×	338000 MT.3	TOMOORE.	338000A01	338000000	3380004019	33800000000	POLE #92	3380001003	3380007006	3380007011	338007014	3380007078		3380007027	
338000300	53800 MV25	338000A016	33800 M21	3.38000 MOZE	53000 MV29	338000,0000	338000,603,	POLE #93	338000100 PO	LE #94	POLE#	*95 ***	POLE #96	3800102\\ P	20LE #97 3380007028	
	3380005008	380005001	3380005006	3380005005	3380005004	3380005003	3380005002	338000500^	338000800^	3380008008	3380008009	3380008009		3380008025	380008026	
	3380005000	3380005010	338005011	3380005012	3380005013	38000501A	338005015	3380005016	3380008001	3380008007	3380008010	3380008075	3380008018	338000807.A	3380008027	
	3380005026	3380005025	3380005024	3380005023		3380005020	3380005019	3380005017	3380008003	3380008006	3380008011	3380008014	3380008019	380008023	3380008028	

3380004032 POLE #93	3380007004 PO	3380007005 _ E #94	3380007012 POLE #		3380007020 POLE #96	380007021 PO	3380007028 LE #97	3380007029 POLE #	3380011031 98	3380011032	3380011033	3380011034	3380011013	3380011014	3380011015					
3380005001	3380008001	3380008008	3380008009	3380008016	33800080^7	3380008025	380008026	3380008033	338,001,2004	3380012003	3380012002	3380012001	33800,202,	³³⁸ 00 ₇₃₀₂₀	3380012019					
3380005016	3380008007	3380008007	3380008010	3380008015	3380008018	3380008024	3380008027	33000032	338001200 ⁵	3380012006 3380012007	3380012008	3380012009	3380012022	3380012023	380012024					
338005017	3380008003	3380008006	3380008011	3380008014	3380008019	3380008028		POLE#	338001201 ⁴	3380012013	3380012011 3380012012	3380012010	3380012027	38001	2034					
Solution of the second	3380008004	3380008005	3380008012	3380008013	3380008020	3380008022	3380008029	3380008030	3380012015	3380012016	3380012018		380012028	3380012029	3380012030					
	338000ggg,	³³⁸ 000 _{939,7}	³³⁸⁰⁰⁰⁹ 2>7	³⁸⁰ 009274	³³⁸⁰⁰⁰⁹ 281	³³⁸ 0009290	³³⁸⁰⁰⁰⁹²⁸⁰	³³⁸ 0009 ₂₈₉		1										
		33800000 A	338000ggg	3380000875		³⁸⁰ 00 ₀ 282	3380009283													
	3380009272	338000588	338000082>>	33800000000000000000000000000000000000		3380	009273	POLE#	M02											
3380006272		3380008792	3800000274	336000055/0	338000 ₆₃₆ 4		³ 3800000000000000000000000000000000000			33 80013001										
			³³ 800 ₇ 02 ₇		·		33800 ₇₀₂₇₆	33800 ₇₀₂₈₇												
	338	0010271	33800,0070	338007057 ₄	33800102	3380010272		POLE #	‡103											

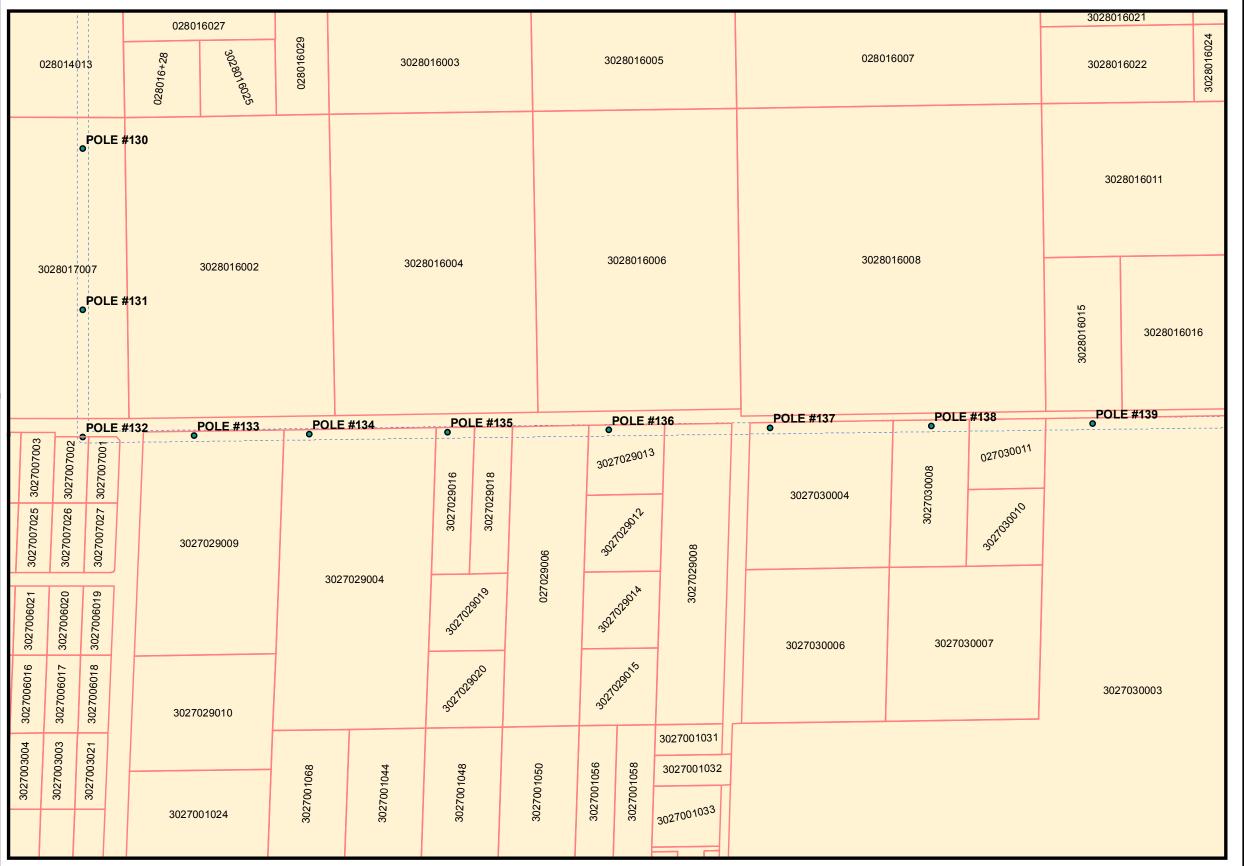
Palmdale Hybrid Power Project Tline Route **Transmission / APN Map** POLE #103 POLE #104 POLE #105 POLE #106 POLE #107

Palmdale Hybrid Power Project Tline Route **Transmission / APN Map** POLE #107 POLE #108 POLE #109 POLE #110 POLE #111

Palmdale Hybrid Power Project Tline Route **Transmission / APN Map** POLE #111 POLE #113 POLE #114 %27 POLE #115

Palmdale Hybrid Power Project Tline Route **Transmission / APN Map** POLE #115 3028007279 3028007271 3028008017 3028008018 028007281 POLE #116 3028008272 3028008274 POLE #117 3028008002 POLE #118 3028008270 POLE #119 POLE #120 POLE #124 POLE #122 POLE #121 POLE #123 3028015018 3028015008 3028015011 3028015012 3028015059 3028015017 3028015055 028014272 3028015054

	3028009270			3028008270						3028008002								
	3028014270	PO	I E #124	LE #124 POLE #123 POLE #122 POLE #121						120								
		(0	#124	0	0		9)		5007	5008	5009	3028015059		15011				
.274		PO	LE #125	5		3028015007						3028015009	3028015060	3028015052	3028015011			
3028014274	3028014273	028014272		3028015054 3028015055						3028015012		028015014		3028015042				
a a)15012	3028015013		3028015043	£90\$10870£			
		PO	LE #126															
				3028015046	3028015003			3028015030										
				3028015047	3028015048	-												
				3028015004														
	3028014280		LE #127	302801500	5													
	•					3028015035			3028015031									
	3028014014																	
	028014013			3028016013	3016003	16003 3028016005			028016007									

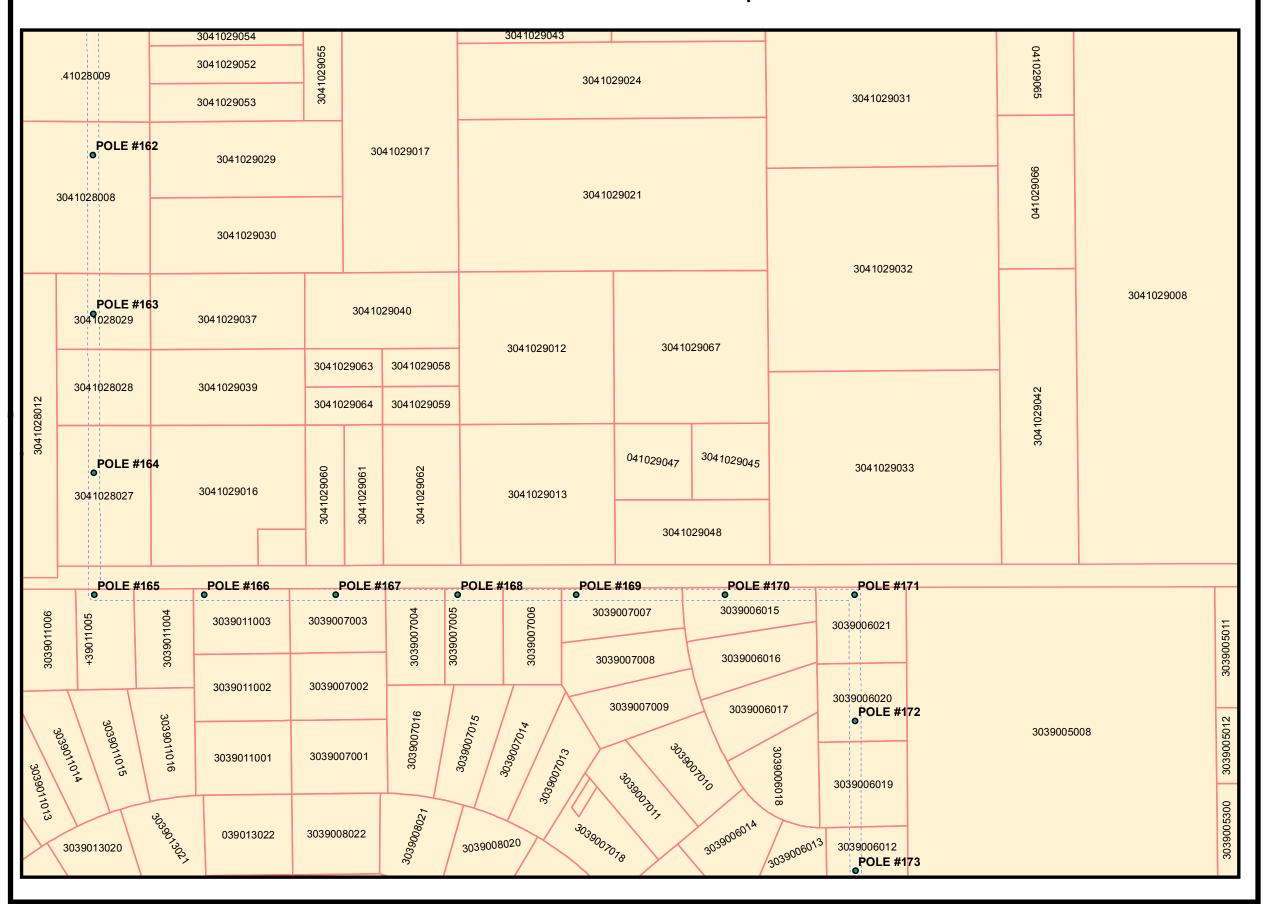


														_				
	3028016021	3028016023						3079007003	3079007006	307900	7011	3079007014	30790070	19 30	079007022	3		
028016007	3028016022	3028016024			3079	006001		30,1000,100	3019001005	307.000	27012	3070007013	3070007012		3019001027	3079006024	3079006058	2000008700
	30286	016011						0,490,000,	3019008008	30,100	0000	30,000,000	30,100,00	۵	30,000 ADL*		3070006065	cononne /ns
16008	50250	310011			3079	9006002		3013003007	30,700,000,1	30,1000	0000	30,100,007.5	30,190,00	·> 0	30,000,002	16025	70006067	307900004
3028016008	3028016015	3028016016			3371	3300002		30,00000°	30,700,000	30190	0007,	30,100,007.	30,70000	20	.79008022	3079006025	600	J6063
								3079008004	.79008005		3079008012	3079008013	3079008020		3079008021		00000	3079006063
	POLE #139	POLE #140] _F	OLE #141		3079006009 POLE #142		POLE #143		DOLE	- 4444					3079006		
027030011	-			30,200,00,	3079009002		3079009004	3079009005	3079009006		. #144 . 006 006 006 006 006	3079009008	O 45			POLI	E #146	
3027030010				3079009017	3079009016	079009015	3079009014	3079009013					3079011042	3079011019			3079011005	
				3079009018 3	3079009019	3079009020	3079009021	3079009022	3079009012	3079009011	3079009010	3079009009	30790	11043	30790	11010	3079011022	
3027030007	30270	030003		3079009027	3079009026	3079009025	3079009024	3079009023		30790	11001		07901	1021			307	
				3079010001	3079010002	3079010003	3079010004	3079010005		30790°	11002		30790 ⁻	11012	307901	1013	3079011027	3079011029
					3079010009	9 3079010008 3079010007		3079010006	3079011002				3079011012					

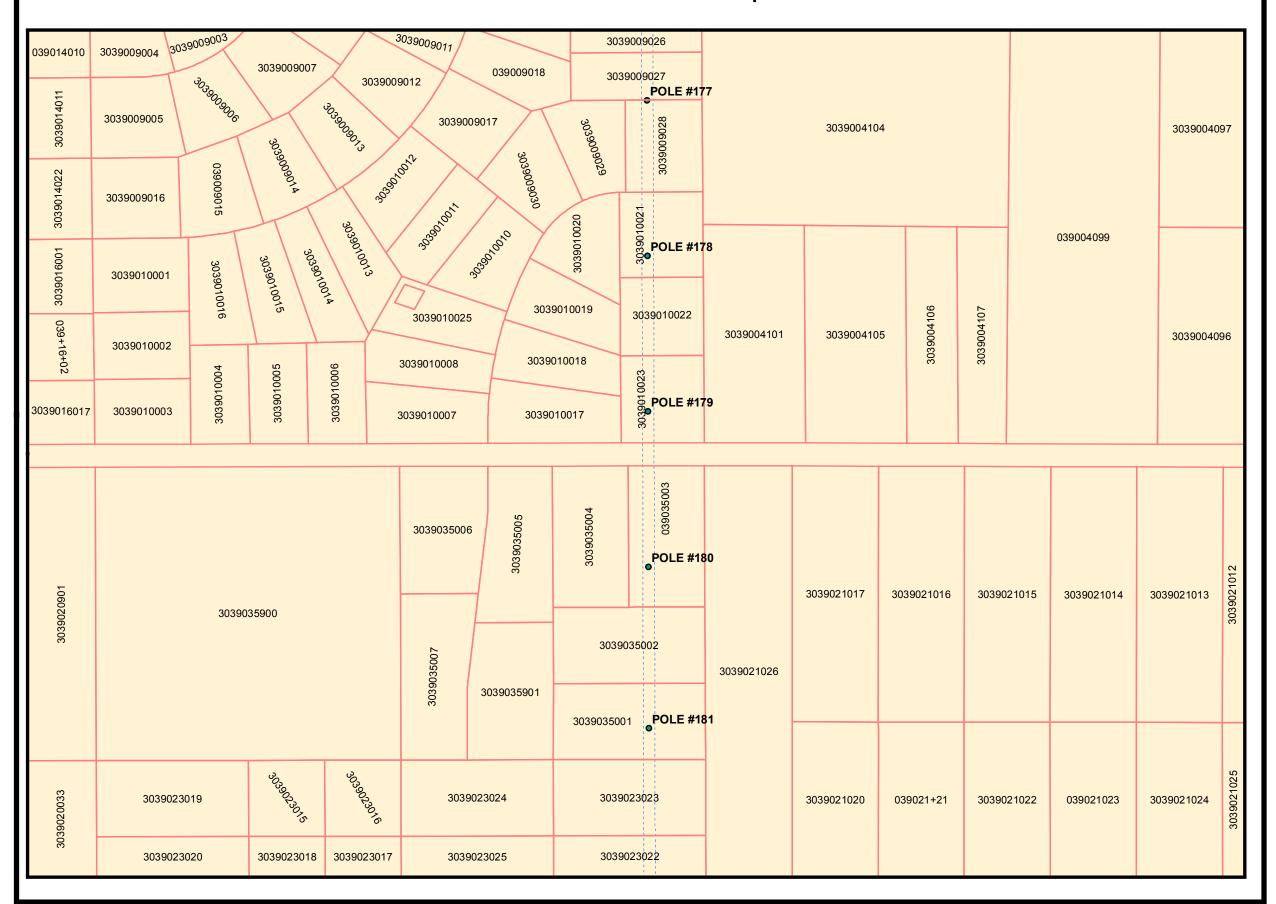
307	79008021	3079000			07900 307900		079006045	3079006047 3079006048	30790060	49	3	079005025		30790050	38 307900503	0 079005044	3079005008	
19			E #146		POLE #		POL		POLE#			30790120	42	307901204	46	3079012017	,	12054
3079011019				3079	9011005				POLE#	3079012049	2053	3073012042	2012	3079012047	2014	3019012028	2016	3079012054
3079011043	30790 [.]	11010	3079011022	3079011023	3079011024	3079011025		3079011008		12052	3079012053	35T3012CAA	3079012012	30T9012048	3079012014	3073012029	3079012016	079012020
079011021						·			POLE #	3079012052		3019012045		3079012027		3079012019		0620
			3079011027	3079011029	3079011031	3079011033												
3079011012	307901	1013	3079011034	3079011035	3079011036	3079011037		3079011009	POLE #	152			307	9012002				3079012021
			3079011038	3079011039	079011040	3079011041			POLE #	153								
										3079016001	3079016008	3079016009	079016016	3079016017	3079016024	3079016025	3079016032	01
30790	18029	307	79018030		07	79018031		3079018006 POI		³⁰⁷⁹⁰¹⁶⁰⁰²	30,790,7600,7	3079076070	3079076075	30 ₇₉₀₇₆₀₇₈	30 ₇₉₀₇₆₀₂₃	30 ₇₉₀₇₆₀₂₆	3079016031	3079015001
					307901800	7				3079016003	3079016006	079016011	3079016014	079016019	3079016022	3079016027	3079016030	

		-				_																				
હું	180,000		30790)18029				3	0790	18030	0		079018	8031			3079018	3006	POLE #	³⁰⁷⁹⁰¹⁶⁰⁰² 54	307 ₉₀₇₆₀₀₇	30 ₇₉₀₇₆₀₇₀	3079076075	30 ₇₉₀₇₆₀₇₈	30 ₇₉₀₇₆₀₂₃	3078078026
307	9018050																			3079016003	30 ₇₈₀₀₆	07 ₈₀₇₆₀₇₇	307 ₉₀₇₆₀₇₄	079076079	30 ₇₋₉₀₇₋₆₀ 22	3070076027
307	^{'901} 805 ₁			3079018007											POLE #	3079016004 1 55	3070076005	30 ₇₉₀₇₆₀₇₂	307 ₀₀₇₆₀₇₃	30, 20, 160, 20	3079076027	3079016028				
																	8011		3079018008	3079017001	307,200,	30 _{790,7} 000	30 ₇₉₀₇₇₀₇₆	070077077	30 ₇₋₉₀₇₋₇₀₂₋₈	3079017025
	3079018021		30790180	020	3079018033	3079018032	3079018017	3079018016	3079018015	079018014	30790 [.]	18013		079018	042		3079018011		POLE #	³⁰⁷⁹⁰¹⁷⁰⁰²	30,700,7	30,200,700,0	307 ₉₀₇ 7075	3079077078	30,700,700,	3079017026
	3079				30790	30790	30790	30790	30790	0420	30730	10013		0/9010	012		8010		079018009	079017003	30,200,7006	079077077	30,70,70,70	307 ₂₀₇₇₀₇₀	307907702	11
																	3079018010		0620 POLE #	3079017004	3079017005	3079017012	3079017013	3079017020	30790170	3079017028
13	2 2	٥	30	03	02	T	10		<u>5</u>	8	<u>-</u>	80	- 20	90	<u>ი</u>	4	ဥ	-	•							
3041020013	3041020012	2	3041021030	3041021003	3041021002	_	3041021001		3041021013	.41021012	(1)	3041022008	3041022007	304102	3041022005	3041022004	3041022003	3041022002						3041034	4003	3041034014
3041025029	3041025008	30	41021035	304102	2		044	0210	115		3041021014	3041C		30410		Ç	30410		3041022012							
30410	30410	30	41021032	,	1016		U4 I	UZ IU	710		21014	30410'260')))))	3041022014			3041022013		2012					001100	4047	3041034038
3041025015	3041025016	_		³⁰⁴ 102	2101	9	304	1021	020	304	⁴¹⁰² 1021	304102	³⁰⁴ 1022017		017	24	125		POLE #		304	1034013		304103	4017	.41034039
3041025023 304	3041025024 304	30	3041021034 3041021034	³⁰⁴ 102	2102.	4	3041	1021	023	304	41021022		3041022027 3041022023 041022022				022021		04102202 ₀					304103	4025	3041034021

+	30410	30016		3041028015	30410	28020	041028021	3041028016 3041028017 3				3041028029	3041029037		3041029040	3041029012	
041031005	³⁰⁴ 10,	³¹ 004	3041028900 3041028008						3041029030			304 102902	21				
3041031006	³⁰⁴ 10.	³¹ 003		20440	128000							POLE #16	2 3041029029		3041029017	304102902	21
3041031007	³⁰⁴ 103	³ 1002											3041029052 3041029053	30410	20/4020047	304102902	24
3041031008	³⁰⁴ 103	³¹⁰⁰¹	3041	028025		30410	28003		.4102	28009		POLE #16	3041029054	029055		3041029043	3041029044
	3041027015	3041027016	³⁰⁴ 1032004	³⁰⁴ 1032005	3041032018	3041032900	041032013	⁰⁴ 1033+04	³⁰⁴ 1033005	304 ₁₍	⁰³³⁰ 12	³⁰⁴ 1033 ₀₁₃				3041034019	3041034037
	3041027007	3041027008	3041032022	³⁰⁴ 103 ₂₀₀₆	³⁰⁴ 103	³ 2011	³⁰⁴ 1032014	³⁰⁴ 103 ₃₀₀₃	³⁰⁴ 1033006	304 ₁₀	033 ₀₁₁	POLE #16 304 ₁₀₃₃₀₁₄	0			3041034034	
	3041026018	3041026016	3041032021	³⁰⁴ 1032007	304 ₁₀₃	³²⁰¹⁰	³⁰⁴ 1032015	041033002	³⁰⁴ 1033007	0410	33010	304 ₁₀₃₃₀₁₅				3041034034	3041034036
100000	3041026007	3041026008	3041032023	³⁰⁴ 1032008	3041032019	3041032020	³⁰⁴ 1032016	³⁰⁴ 103 ₃₀₀₁	³⁰⁴ 1033008	304 ₁₍	⁰³³⁰⁰⁹	POLE #15	9 30410	34013		3041034023	3041034040
000000000000000000000000000000000000000	3041025023	3041025024	3041021034	³⁰⁴ 102 ₁₀₂₄	³⁰⁴ 102	² 1023	³⁰⁴ 1021022	³⁰⁴ 1022023	041022022	0410	22021	3041022020				3041034025	3041034021
30440350	3041025015	3041025016	3041021033	³⁰⁴ 1021019	³⁰⁴ 102	21020	³⁰⁴ 1021021	3041022027	³⁰⁴ 1022017	3041022024	3041022025	³⁰⁴ 1022019					
T.	015	916	3041021032					3041022026	3041022014			POLE #15	8			3041034017	.41034039
			2044024022	3041021016	04102	1015	3041021014	3041022015	3041022014	30410)22013	3041022012					3041034038

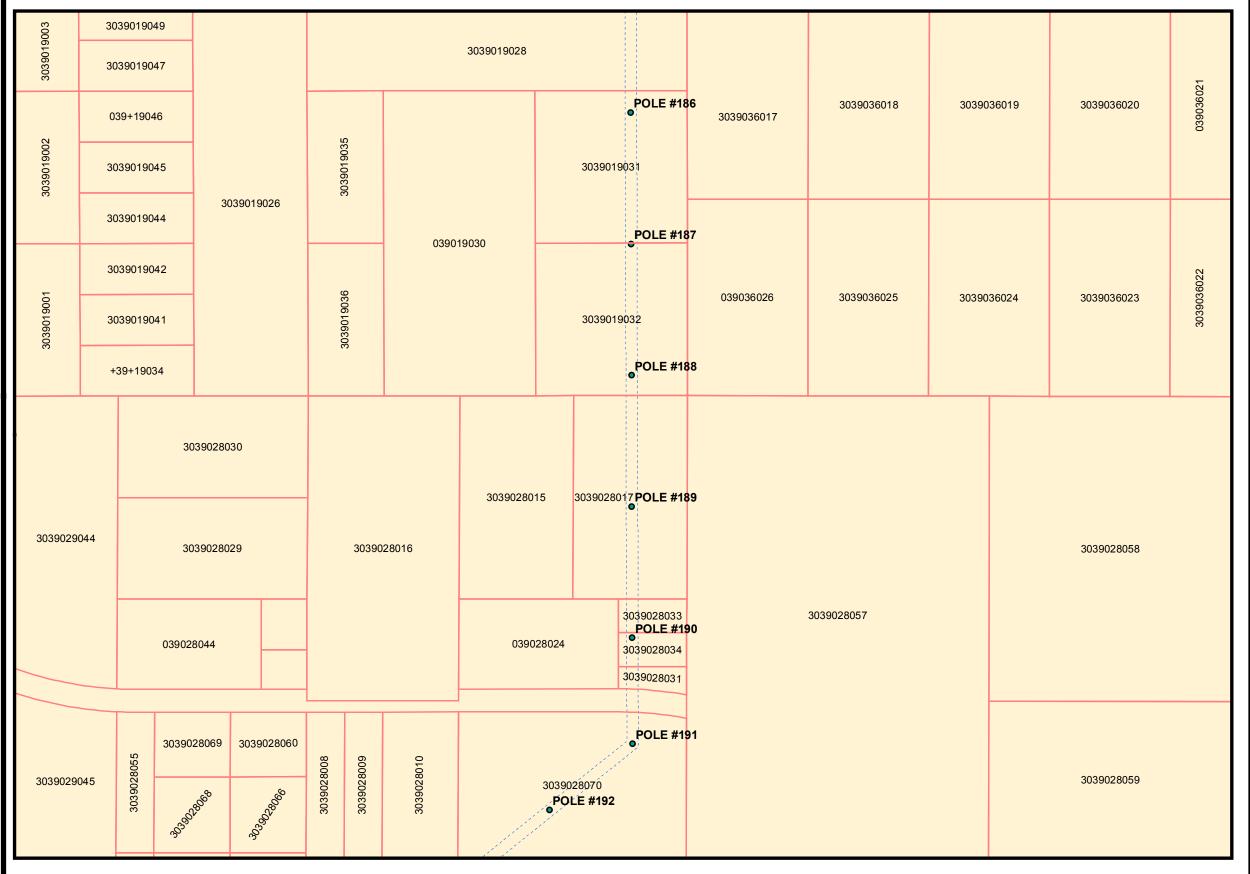


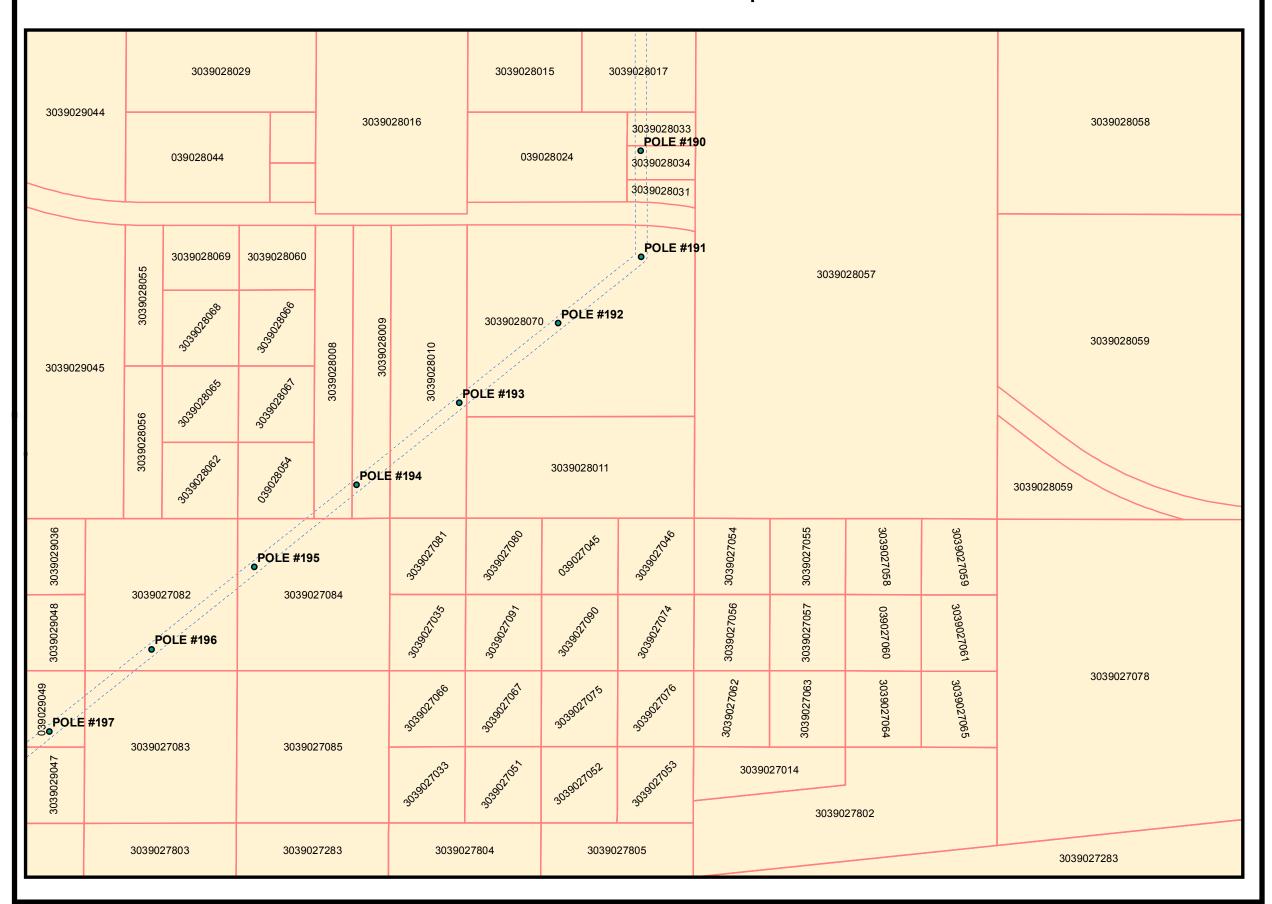
	8	3039007015	³⁰³⁹⁰⁰ 7074	, , , , , , , , , , , , , , , , , , ,	303900	27070	2,300,60,18	000000010		30390	05012	3039005013
3039008022	3039008021	7		303,00707	30 to,	76014	7—4	3039006019 21 8 POLE #17	3039005008	005300	005009	3039005015
3039008011	1		Signal of the state of the stat		303900600	01				3039	3039	3039005014
039008010		303900	039008014			3039006002	303	9006010 POLE #17	74			5021
3039008007	0390	800800	303900802	15 3	8039008016	3039006004	303	9006008	3039005005	30390	005006	3039005021
3039008001	3039008002	3039008003	3039008004	3039008005	3039008006	3039006005	3039006006	2009006EPOLE #17	75			
039008023	3039008024	3039008025	3039008026	3039008027	3039008028	3039009021	3039009022	3039009023				3039004098
3039009001	3039	9009002	30390090	09 3	3039009010	3039009020			3039004103 76			30
3039009004		30390		303		3039009019				0390	04099	26
	1000000		303000	07.3	30390090	017		POLE #17	77 3039004104			3039004097
	3039008011 039008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008007 1008008008 1008008008 1008008008 1008008008 1008008008 1008008008 1008008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 100808 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 100808 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 1008008 100808 1008008 1008008 1008008 1008008 1008008 1008008 1008008	3039008010 3039008010 3039008007 3039008007 3039009001 3039009001 3039009001 3039009001	3039008011 3039008010 3039008009 3039008007 3039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 03008008 03008008 03008008 03008008 03008008 03008008 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 0300808 03008 0300808 0300808 0300808 03008 03008 03008 03008 03008 03008 03008 03008	3039008011 3039008010 3039008009 039008014 3039008007 039008008 3039008007 039008008 3039008007 039008008 3039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 039008008 03900808 03900808 03900808 03900808 03900808 03900808 03900808 03900808 03900808 03900808 03900808 03900808 0300808 0300808	3039008011 3039008010 3039008007 039008008 3039008007 039008008 30390080015 30390080015 3039008001 3039008001 3039008008 3039008001 3039008001 3039008001 3039008001 3039008001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009005 3039009005 3039009005 3039009005	3039008011 3039008010 3039008007 039008008 3039008014 3039008017 3039008015 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016	3039008011 3039008010 3039008009 039008014 3039008017 3039008001 3039008007 039008008 3039008015 3039008016 30390080016 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001	3039008011 3039008010 3039008009 039008014 3039008017 3039008000 3039008007 039008008 3039008015 3039008016 3039008004 3039008006 3039008016 3039008006 3039008016 3039008006 3039008016 3039008006 3039008016 3039008016 3039008006 3039008016 3039008006 3039008007 3039008007 3039008007 3039008007 3039008007 3039008007 3039008007 3039008007 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001	3039008011 3039008011 3039008013 3039008014 3039008017 3039008003 3039008001 3039008007 3039008008 3039008015 3039008016 3039008004 3039008008 3039008017 3039008008 3039008017 3039008008 3039008009 3039008016 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039008001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001 3039009001	3039008011 3039008010 3039008017 3039008017 3039008017 3039008017 3039008017 3039008017 3039008018 3039008017 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018	3039008011 3039008011 3039008013 3039008013 3039008014 3039008015 3039008016 3039008016 3039008016 3039008017 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 3039008016 303900	3039008001 3039008002 3039008003 3039008001 3039008003 3039008013 3039008007 3039008003 3039008014 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018 3039008018



						3039035	002							12
3039020901		3039035900		3039035007	3039035901	3039035001		31	3039021017	3039021016	3039021015	3039021014	3039021013	3039021012
30		<u> </u>		36										
0333	3039023019	30.230.230.15	3039023016	303	9023024	3039023	023	3039021026						25
3039020033	3039023020	30390230^8	30390230^7	303	39023025	3039023022	POLE #18	32	3039021020	039021+21	3039021022	039021023	3039021024	3039021025
039020802		3039023013		303	39023026	0390230	021							
3039			30	39023801						30	039021800			
3039020034		3039023012		303	39023028	3039023	POLE #18 027	3039036015	3039036013	039036011	3039036009		3039036005	
039019053	3039019025		3039019063		30390	019062	POLE #18	3 4 3039036016	3039036014	3039036012	3039036010	039036027	3039036006	3039036004
	3039019050						POLE #18	35						
3039019003	3039019049	3039019026			3039019028									
(*)	3039019047							303903601	7					021
02	039+19046		35				POLE #18	86	303	39036018	3039036019	303903	6020	039036021
3039019002	3039019045		3039019035	03	9019030	3039019	0031							
	3039019044													

Palmdale Hybrid Power Project Tline Route Transmission / APN Map 3039019049 3039019047 3039019047





Palmdale Hybrid Power Project Tline Route **Transmission / APN Map POLE** #194 3039028010 POLÉ #195 POLE #196 POLE #197 POLE #198 POLE #199 POLE #3 POLE #2 POLE #1 POLE #6 POLE #7

Technical Area: Cultural Resources Supplemental Response Date: March 2, 2009

Data Request 20:

Please submit a new <u>confidential</u> Attachment 7 which adds the tower locations and the pull site locations for the proposed transmission line to the plotted locations of known and newly identified cultural resources.

Response:

The Applicant has revised the confidential version of Attachment 7, which adds tower locations, pull site locations, and laydown areas for the proposed transmission line to the plotted locations of known and newly identified cultural resources. The 10 maps comprising this revision have been delivered under separate confidential cover to the CEC.

As indicated in the depiction of the tower locations on the revised maps, the transmission line route has been rerouted out of the original alignment in two places – east of the Pearblossom Substation (Map 8 of 10) and east and south of the Vincent substation (Map 10 of 10). The Applicant is conducting new archaeological surveys of these areas, including the requisite buffers. A survey report will be provided within 30 days of completion of the field work.

Data Request 21:

Please submit a new <u>non-confidential</u> Figure 5 which adds the tower locations and the pull site locations for the proposed transmission line to the plotted locations of known and newly identified built-environment resources.

Response:

The Applicant has revised the non-confidential version of Figure 5, which adds tower locations, pull site locations, and laydown areas for the proposed transmission line to the plotted locations of known and newly identified built-environment resources. The six maps comprising Figure 5 are included as an attachment at the end of this section.

The two transmission line reroutes (see response to Data Request 20), the three laydown areas, and the 22 pull site locations are all within the built environment survey area, so no new built environment surveys will need to be conducted. One of the pull sites extends into Parcel AIN 3027007002, which is outside of the original built environment surveys area. This parcel has been added to the survey area, but is vacant according to the County Assessor's data, so it will not be re-surveyed.

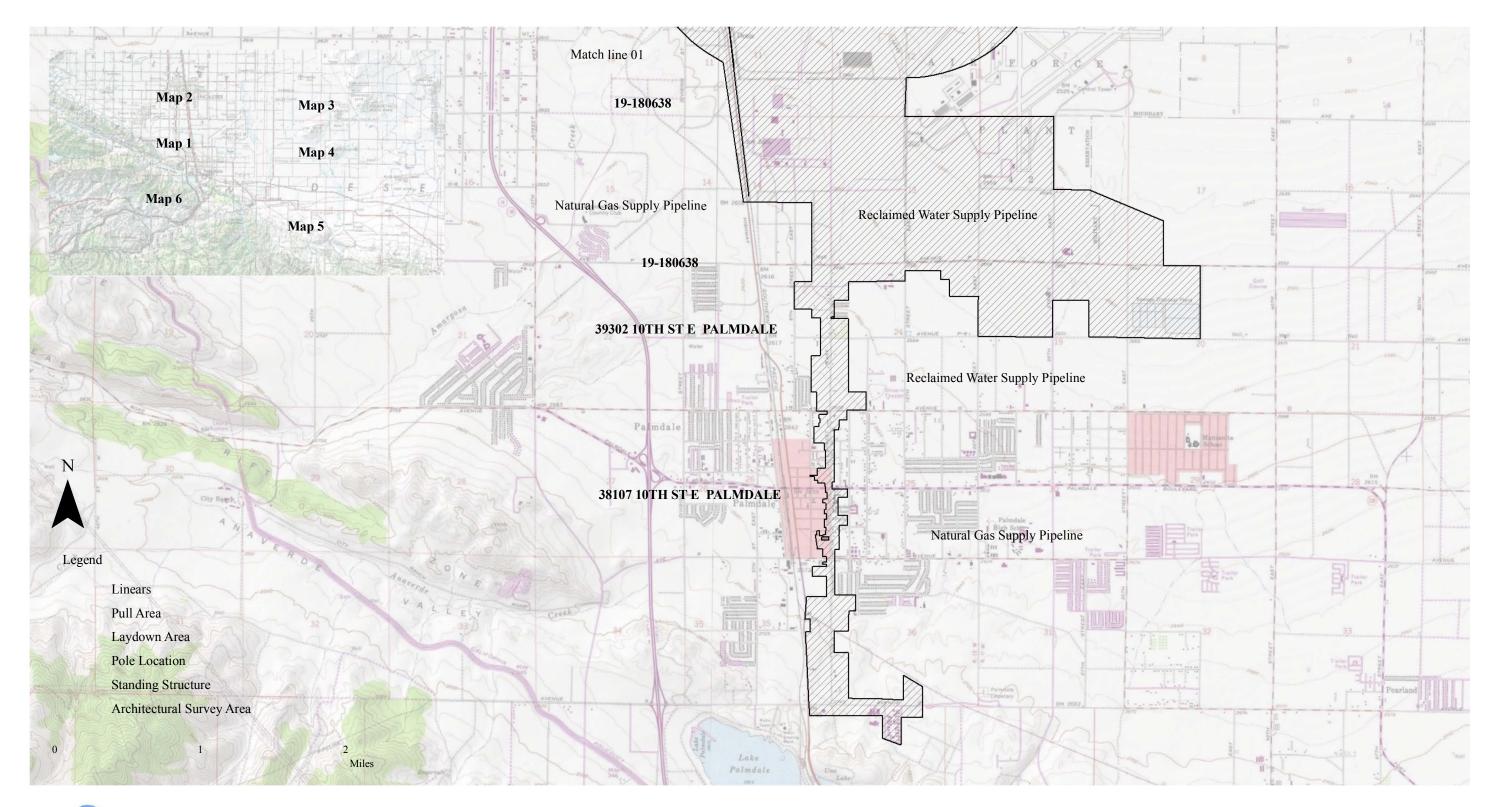




Figure 5 Map 1/6
Built Environment Technical Report
PHPP
Palmdale, California

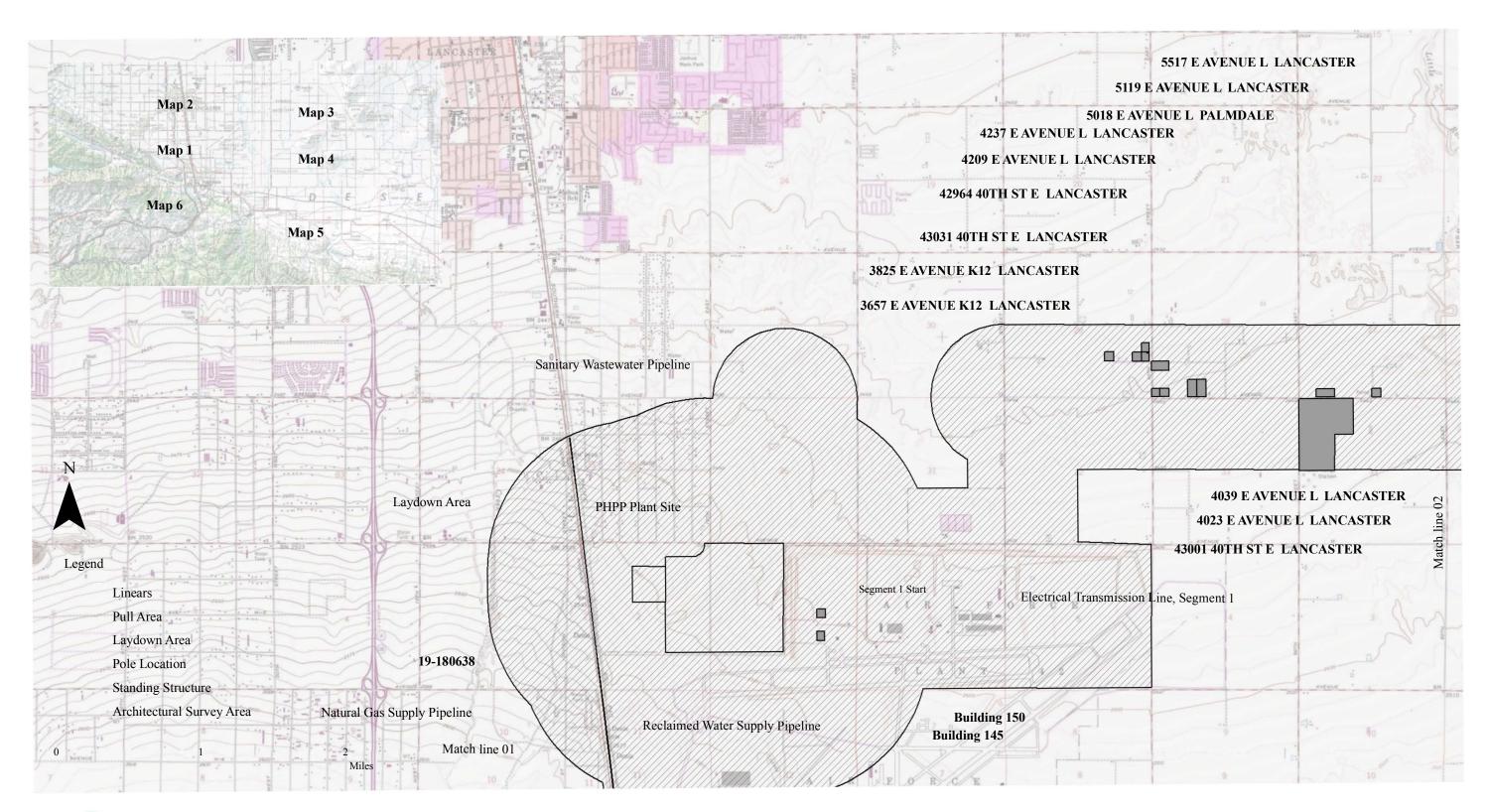




Figure 5 Map 2/6
Built Environment Technical Report
PHPP
Palmdale, California

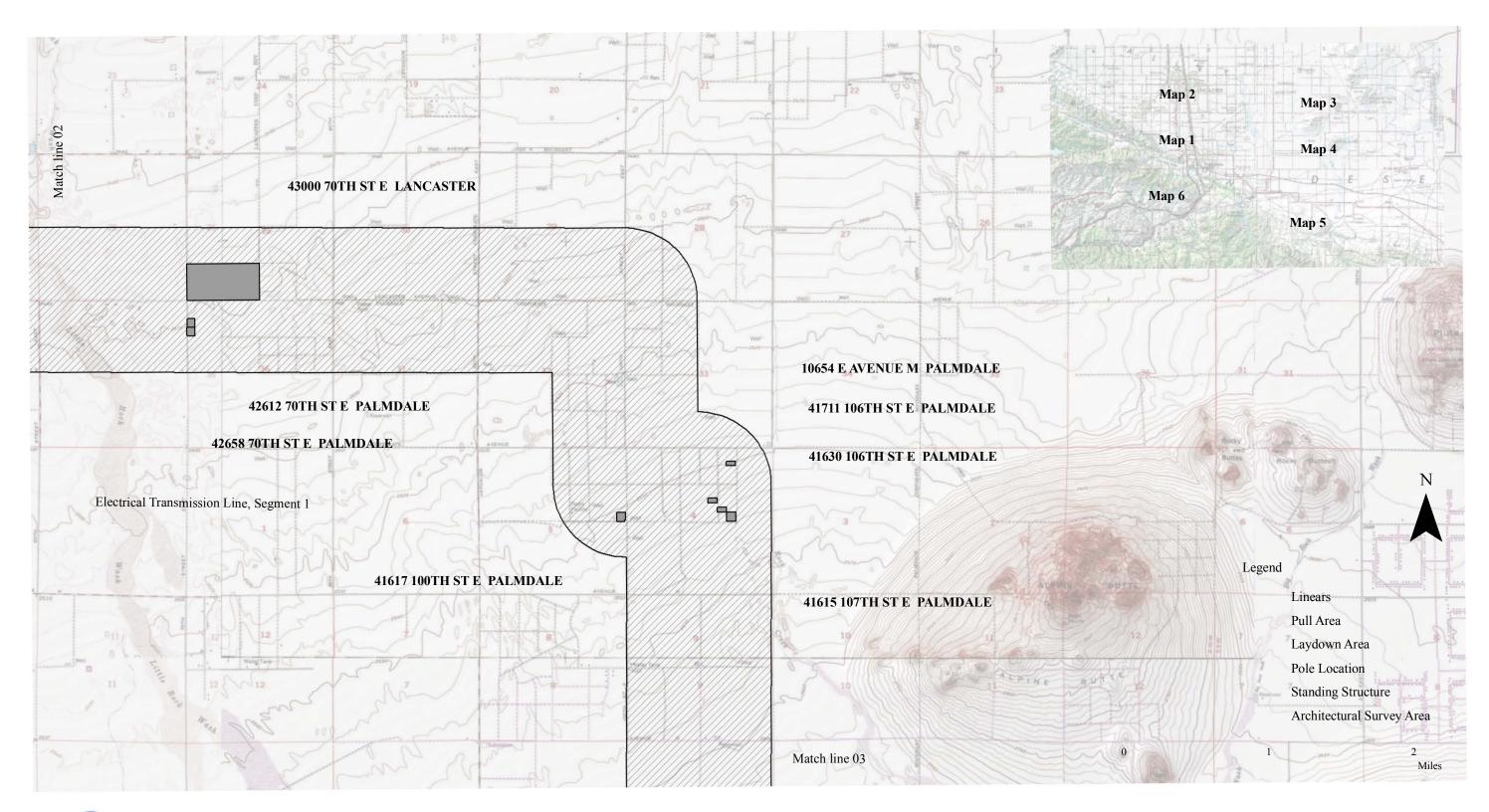




Figure 5 Map 3/6
Built Environment Technical Report
PHPP
Palmdale, California

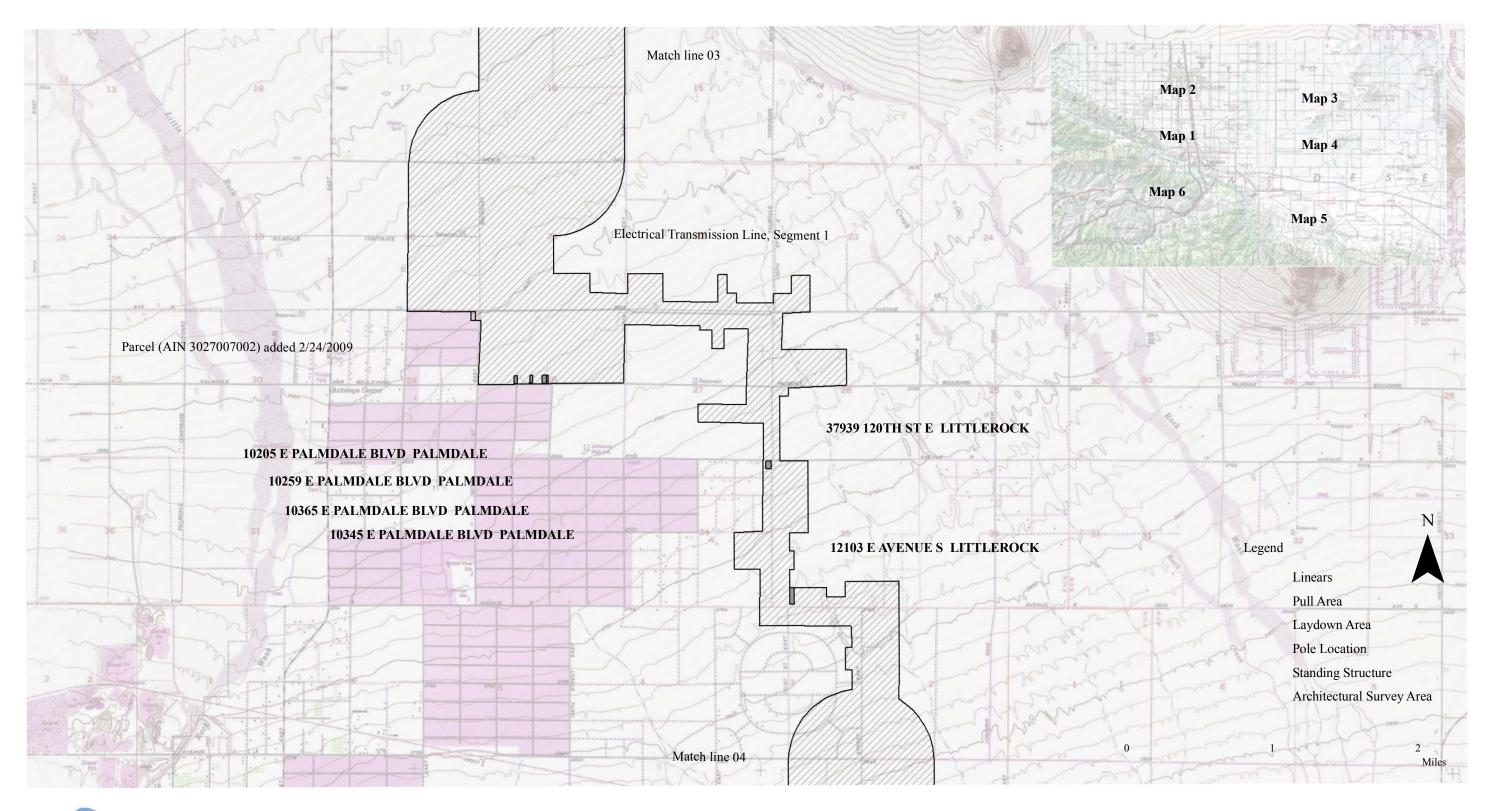
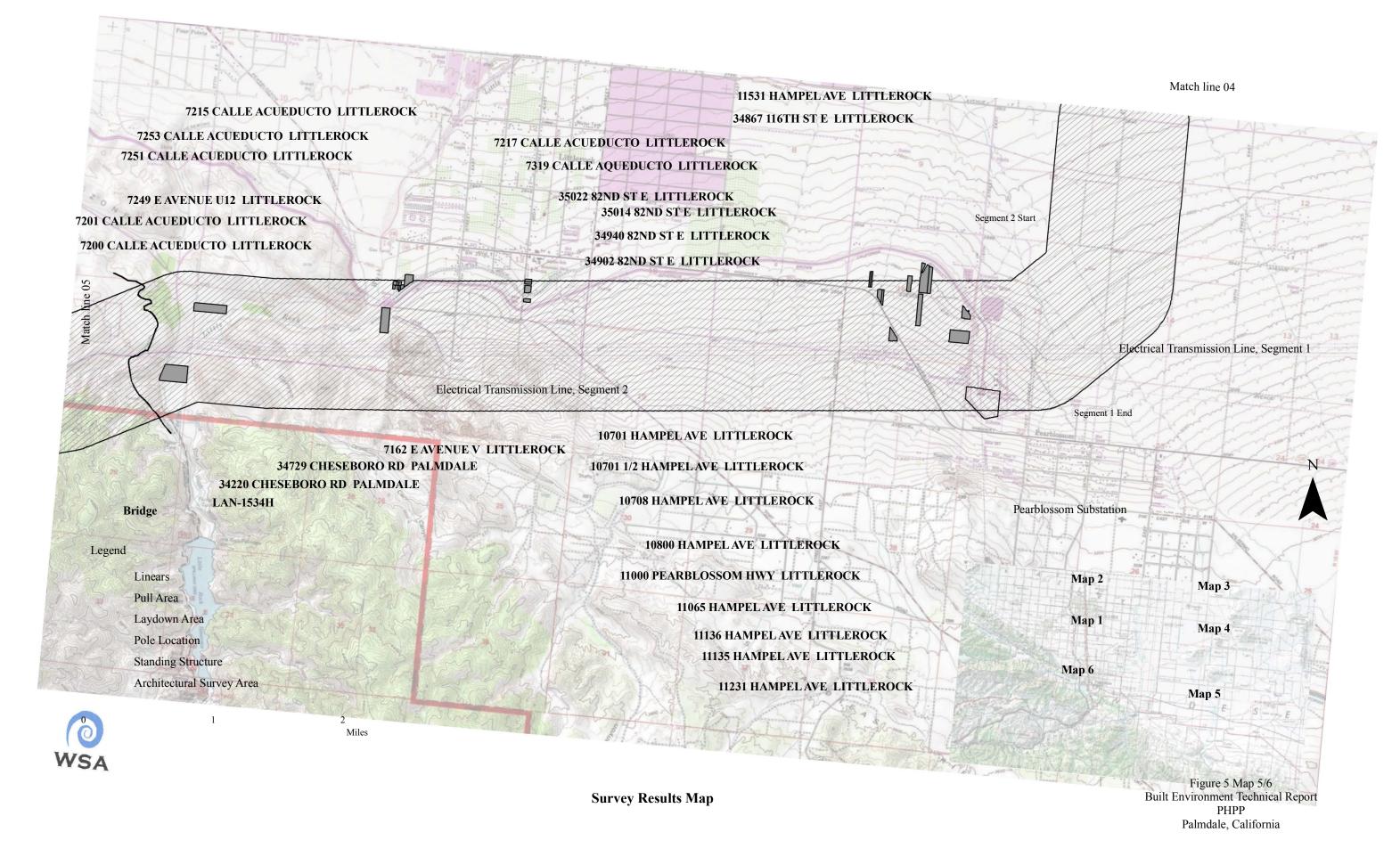




Figure 5 Map 4/6
Built Environment Technical Report
PHPP
Palmdale, California



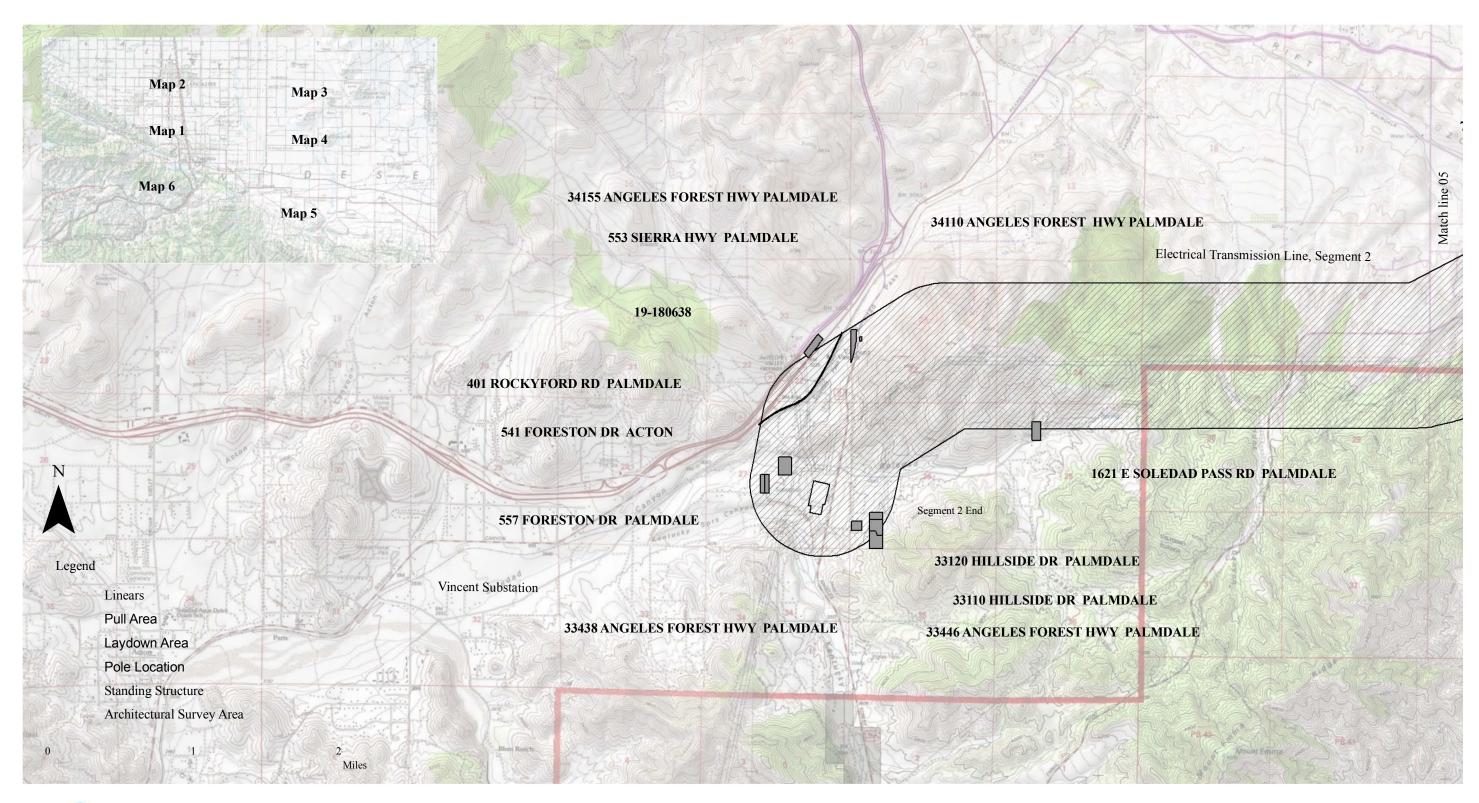




Figure 5 Map 6/6
Built Environment Technical Report
PHPP
Palmdale, California

Technical Area: Biological Resources Supplemental Response Date: March 2, 2009

Data Request 4:

Please verify the aerial interpreted preliminary wetland delineation results and provide the results from the ground-truthing exercise with the tower locations and access/spur roads superimposed on the figures. Show the wetland delineation maps at a scale of 1 inch equals 200 feet.

Response:

Ground-truthing field verification of the wetland delineation results was conducted on February 19, 2009. Revision of the "Preliminary Determination of Jurisdictional Waters of the United States and Waters of the State of California, PHPP" report (AFC Appendix H, Attachment 3) and associated figures is currently in progress and the revised report is expected to be submitted to the CEC within 30 days.

Data Request 5:

Please provide the final determination from the U. S. Army Corps of Engineers (USACE) regarding whether or not jurisdiction will be asserted. Should the USACE assert jurisdiction, please explain the project-specific circumstances that would necessitate substantial temporary or permanent impacts to jurisdictional waters.

Response:

The Applicant has confirmed our previous determination through the ground truthing exercise discussed above that there are no potential jurisdictional waters of the United States or of the State that may be affected by any Project components.

With respect to the transmission lines, Project engineers are ensuring avoidance of impacts to potentially jurisdictional waters by relocating poles and adjusting proposed work and staging (i.e., laydown) areas of the Project. The Applicant produced a Preliminary Determination of Jurisdictional Waters of the United States and Waters of the State of California for the Palmdale Hybrid Power Project in July 2008 (AFC Appendix H, Attachment 3). In early February 2009, the Applicant received specific information showing proposed pole locations, work areas for pole placement (within a radius of 50-ft surrounding the pole), access routes, and staging areas for the Project. The Applicant's wetland specialist (Mr. Nick Ricono, AMEC) conducted a ground truthing exercise for the entire proposed transmission line on February 19, 2009, to identify waters with potential Federal and State jurisdiction, and to identify locations where construction activities could impact those waterways, triggering State and/or Federal permitting processes.

Based on that ground truthing exercise, the Applicant determined that there are no potentially jurisdictional waters in the vicinity of pole locations 149 to 153 on Segment 1. Washes interpreted from aerial photographs are relic structures that have no existing hydrologic pathway producing a

Technical Area: Biological Resources Supplemental Response Date: March 2, 2009

bed and bank or any hydrophytic vegetation. Example Photographs in the vicinity of poles 149 and 153 are provided below.





Photo 1: Facing South from Pole 149

Photo 2: Facing North from Pole 153

The ground truthing exercise did identify some areas that required minor adjustment to ensure no potentially jurisdictional waters would be impacted. This involved comparing the Google Earth flyover "kmz" file that was provided in the Supplemental Responses submitted on February 12, 2009 with the locations of washes as found in the field. This file provided pole locations that were surrounded by a circular work area, as well as pull sites/staging areas and spur roads. In every case, it was determined that some slight adjustment of these areas, for instance changing the shape of the work areas from a perfect circle or moving the pole location slightly, would avoid the impact. The work areas can be defined as needed to provide sufficient work space. A revised Google Earth fly-over file is provided with this submittal that shows these adjustments to the areas as listed below.

Areas of concern where transmission pole location, spur road, and/or proposed work or staging areas had the potential to impact a jurisdictional water (based on the February 12 version of the Google Earth fly-over file), and actions that will be taken to avoid any potential impacts, are as follows:

- Segment 1, Pole 154-157. A small ephemeral wash follows the eastern edge of 120th St. potentially draining residential areas from south to north. Work areas for pole placement lie on the eastern edge of the wash. The poles and proposed work areas have been relocated outside of the drainage areas and away from the eastern edge of the wash to avoid any impacts to the ephemeral wash.
- Segment 1, staging area at Pole 171. An ephemeral wash lies across the southwestern corner of the staging area. This staging area has been relocated to avoid any impacts to the ephemeral wash.

Technical Area: Biological Resources Supplemental Response Date: March 2, 2009

- Segment 1, Pole 195. An ephemeral wash lies within the proposed work area west of the pole. The pole placement and associated proposed work area have been relocated to avoid any impacts to the ephemeral wash.
- Segment 2, Pole 23. An ephemeral wash lies within the proposed work area east of the
 pole. The pole location and associated proposed work area have been relocated to avoid
 any impacts to the ephemeral wash.
- Segment 2, Pole 52. An ephemeral wash lies within the proposed work area east of the
 pole. The pole location and associated proposed work area have been relocated to the
 west to avoid any impacts to the ephemeral wash.
- Segment 2, between Pole 62 and 63. Little Rock Wash is an active channel in this area.
 Pole alignment figures showed access roads entering the wash from the east and west.
 The access roads have been relocated to avoid any impacts to the channel and wash.
- Segment 2, Pole 85. An ephemeral wash lies within the proposed work area west of the pole. The pole and proposed work area have been relocated to avoid any impacts to the ephemeral wash.
- Segment 2, Pole 89. An ephemeral wash lies within the proposed work area west of the
 pole. The pole and proposed work area have been relocated to avoid any impacts to the
 ephemeral wash.
- Segment 2, Pole 104. An ephemeral wash lies within the proposed work area east of the
 pole. The pole and proposed work area have been relocated to avoid any impacts to the
 ephemeral wash.

Data Request 6:

Please contact California Department of Fish and Game (CDFG) and provide a record of correspondence regarding the need to complete a Streambed Alteration Agreement. Should a Streambed Alteration Agreement be needed, please explain the project-specific circumstances that would necessitate substantial temporary or permanent impacts to jurisdictional waters of the State. Also provide the CDFG mitigation for the Streambed Alteration Agreement, if appropriate.

Response:

Please see Response to Data Request 5. Contact with the CDFG was initially made on September 18, 2008 to discuss jurisdictional waters of the State with Jamie Jackson of the CDFG. Since that time, the Applicant has confirmed our previous determination that there are no jurisdictional waters of the United States or of the State that may be affected by any Project components.

Technical Area: Biological Resources Supplemental Response Date: March 2, 2009

Data Request 7:

Please provide the anticipated schedule of USACE and Regional Water Quality Control Board (RWQCB) permitting for (and verification of) jurisdictional waters, and expected mitigation measures likely to be included in USACE and RWQCB permits, if appropriate.

Response:

Please see Response to Data Request 5. The Applicant has confirmed our previous determination through the ground truthing exercise that there are no jurisdictional waters of the United States or of the State that may be affected by any Project components.

Data Request 10:

Please provide a detailed raven monitoring and control plan that discusses:

- how the monitoring and control plan will be coordinated with CDFG and USFWS;
- · area covered by the plan;
- use of perch-deterrent devices and locations of their installation;
- measures that might reduce raven presence and nesting activities (e.g., removing food items, garbage, and access to water);
- a monitoring plan, including discussion of survey methods and frequency for establishing baseline data on pre-project raven numbers and activities,
- assessing post-project changes from this baseline, and the funding mechanism for the monitoring plan;
- remedial actions that would be employed (e.g., nest removal) if raven predation of juvenile desert tortoise and other wildlife is detected; and
- the circumstances that would trigger the implementation of remedial actions.

Response:

As set forth in the Applicant's initial response to this Data Request, the Project is expected to have minimal, if any, impact on desert tortoises. Accordingly, the Applicant does not anticipate that a Raven Monitoring and Control Plan (Plan) is necessary. However, if the USFWS, CDFG and CEC determine that such a Plan nevertheless is required, the Applicant will work with the agencies to prepare a Plan that would mitigate the Project's impacts to desert tortoise, if any.

USFWS currently is establishing a region-wide management and monitoring program in the California Desert Conservation Area through agreements with State and local governments and

Technical Area: Biological Resources Supplemental Response Date: March 2, 2009

private project applicants. Private project applicants would contribute to a region-wide effort in an amount related to the anticipated level of adverse impacts from their project on desert tortoises from predation by ravens. Funds collected from private project applicants would be held by the National Fish and Wildlife Foundation as part of a Desert Conservation Fund until they are needed to implement portions of the region-wide program.

Contributing funding to this region-wide monitoring and management plan would be in lieu of conducting an offsite project-specific statistically based raven monitoring program to determine project-related effects on local raven densities, nesting, and potential effects on desert tortoises.

The Applicant is continuing to discuss the need for, and the components of, a raven control monitoring and management plan for the Project with USFWS, CDFG and CEC.

Technical Area: Alternatives Analysis Supplemental Response Date: March 2, 2009

Following is a response to a question related to Alternatives raised at the CEC February 4, 2009 Workshop.

Workshop Question Related to PHPP Alternative Site Analysis:

Please discuss the alternatives that were considered for routing the PHPP transmission line to the west of Air Force Plant 42 along a north-south corridor extending from the proposed power plant site to the Vincent Substation interconnection. Such an alternative would substantially reduce the length of the proposed transmission line route.

Supplemental Response:

The CEC requested that the Applicant discuss further the alternatives proposed for routing the 230 kV transmission line along a north-south corridor at the western end of Air Force Plant 42.

From the standpoint of best serving the needs of the City, region, and State, the PHPP's electrical capacity must be delivered to the Vincent 500/230-kV Substation, which is the most suitable interconnection point with the regional transmission system. While the development of the transmission line in an area west of Air Force Plant 42 could have reduced the overall length of the proposed transmission line by approximately 26 miles, it would have presented significant difficulties for development.

The most direct route from the plant site to the Vincent Substation was rejected. This route, which was proposed to run along Sierra Highway, would have conflicted with Air Force Plant 42's flight operations. The Applicant discussed the possibility of undergrounding the lines in the vicinity of the runway with Southern California Edison (SCE), but they would not accept ownership of underground high voltage lines due to their corporate policy which prohibits operating or maintaining such lines. In addition, Sierra Highway has a very congested utility sub-grade which would have complicated transmission line construction along this route. For these reasons, this alternative was rejected.

The Applicant considered an alternate route that ran south on 10th St. W. Because this route contains existing transmission line right of ways (ROWs) and is far enough away from airport operations to avoid direct impacts and not require undergrounding, it could have satisfied aviation concerns and would have helped consolidate Palmdale's transmission infrastructure. However, 10th St. W. is one of the City's busiest retail centers and discussions with commercial land owners and SCE regarding the use of existing ROWs became problematic. For example, 10th St. W. is a heavily congested street containing both above grade and subgrade utilities. Restringing the above grade distribution lines located on the west side of 10th street would have been costly to local commerce because of the potential loss of revenue due to construction outages. In addition, SCE's existing ROW includes franchised distribution line easements across privately owned land, which creates additional restrictions on the placement of large transmission lines on existing SCE-owned distribution lines. Typically, landowners are hesitant to grant utility rights for large transmission lines (230 kV and above) as it could impact the value of their property. Thus, SCE

AL-1 Alternatives

Technical Area: Alternatives Analysis Supplemental Response Date: March 2, 2009

was unwilling to allow the PHPP transmission lines to be added to their existing distribution lines along 10th St. W. In addition, the PHPP transmission line would have had to cross the Antelope Valley freeway (I-14) while at the same time crossing the local shopping mall. It was highly unlikely the Project could have negotiated a ROW through the parking lot of the mall due to applicable ordinances. Because of the possibility of a prolonged disruption to City residents and businesses, significant uncertainties associated with the use of existing infrastructure, and difficulty obtaining right of ways, this alternative was rejected.

The Applicant also considered a north-south route located along Division Street, between Sierra Highway and 10th St. W located sufficiently west of the Air Force Plant 42 runway so as to not impact aircraft operations or require undergrounding, and far enough east of 10th St. W, so as to avoid Palmdale commerce. However, this route would have required crossing back and forth from east to west at multiple locations across Division Street to avoid impacting a housing subdivision, including an extremely challenging portion of a subdivision beginning at East Avenue R4 and Division Street, which continued heading south to Barbara Lane. There where multiple concerns associated with traversing homes in this area. The proposed transmission line also passed near the Palmdale Learning Plaza at the corner of Rayburn and Division Street, which was seen as a potentially significant impact, thus the Applicant decided to reject this option as well.

In addition to the concerns raised by these westerly routes with respect to Air Force Plant 42 operations; transmission line undergrounding; and disruptions to the City's commerce, housing subdivisions, and schools; none of the proposed westerly routes met the City's goal of supporting future development in the transmission deficient eastern parts of the City.

Having eliminated the more direct western transmission line route options, various easterly routes were analyzed. Using the same criteria of avoiding existing or future aviation flight paths, and avoiding major disruptions to Palmdale's commerce and the public, the selected easterly route was sited far enough east to avoid existing or future airport operations and along existing right of ways wherever possible. In the southern portions of the proposed easterly route the Applicant chose to avoid existing residential areas by entering the SCE transmission ROW at the Pearblossom Substation. This proposed route also met the City's goal of supporting future residential and commercial development in the eastern corridor of Palmdale.

In summary, the proposed eastern route meets the Applicant's objectives, while minimizing impacts to the public and the local aviation community. The current eastern alignment was carefully chosen and was routed along existing roads and ROWs to minimize environmental impacts. The proposed western routes all posed greater potential for significant impacts to the public, commerce, and the local aviation community, and did not provide substantial environmental advantages compared to the proposed eastern route, so they were rejected.

AL-2 Alternatives

Technical Area: Transmission System Engineering Supplemental Response Date: March 2, 2009

Data Request 73:

Provide a one-line diagram for the existing SCE Vincent Substation before the interconnection of the Palmdale project.

Response:

A preliminary one-line diagram was submitted to the CEC as Figure 2-10 in September 2008 as part of the PHPP Data Adequacy Supplement (response to PO-1, question 3). At that time, the response made reference to pre- and post-conditions at the Vincent Substation as undergoing modification by Southern California Edison (SCE) for a regional grid upgrade. The pre-substation configuration continues to undergo modifications and upgrades by SCE, and unfortunately their final design is not yet available. The Applicant expects to receive the Facility Study within a matter of days, which will provide information on SCE's plans for the Vincent Substation. The Facility Study will also include information on electrical modifications required at the Vincent Substation to accommodate the interconnection with the PHPP, including equipment ratings, bay arrangement of breakers, disconnect switches, buses and any breakers of associated substations requiring upgrades. The Facility Study and all relevant one-line diagrams will be forwarded to the CEC once it is received from SCE.

Data Request 74:

Provide a one-line diagram for the SCE Vincent Substation after the addition of the project. Show all equipment ratings including bay arrangement of the breakers, disconnect switches, buses, and etc. which are required for the addition of the Palmdale project.

Response:

Please see response to Data Request 73 above. All relevant one-line diagrams will be forwarded to the CEC as soon as this information is received from SCE. The Applicant expects to receive the Facility Study within a matter of days, which will provide information on SCE's plans for the Vincent Substation. The Facility Study will also include information on electrical modifications required at the Vincent Substation to accommodate the interconnection with the PHPP, including equipment ratings, bay arrangement of breakers, disconnect switches, buses and any breakers of associated substations requiring upgrades.

Data Request 75:

The existing 230 kV transmission lines from Vincent Substation to Pearblossom Substation feed the California Department of Water Resource (CDWR) water pumping plant. This circuit will be moved and placed on the new PHPP steel poles. Provide evidence showing

Technical Area: Transmission System Engineering Supplemental Response Date: March 2, 2009

that CDWR is informed of and supports the proposed changes, and that CDWR can accept any possible interruption to the normal operation of the pumping plant.

Response:

The Applicant is in the process of coordinating and preparing interconnection plans with the CDWR and SCE, especially with respect to the potential requirement for a short-term outage at the Pearblossom pumping station associated with the interconnection of the PHPP at Vincent Substation. These formal communications have been and are currently being held with Mr. Rick Buckingham at the CDWR and Mr. Paul Sindelar at SCE. Copies of emails documenting these informal communications are included as Attachment DR-75 at the end of this section. More formal communications have been held including general discussion of the interconnection plan at the February 4, 2009 CEC Workshop in Palmdale, attended by Mr. Rick Buckingham of CDWR and Mr. Rob Tucker and Ms. Jessica Hackensberg of SCE.

Because current plans are to build a new transmission line alongside the existing transmission line in the current SCE right of way along Segment 2, the actual interconnection is expected to require a relatively short period of time to complete, perhaps a matter of hours rather than days. New poles will be strategically placed near the existing H-frames and their access roads to the extent possible and new conductors will be installed along the entire length of the new SCE line between Vincent and Pearblossom Substations. The Applicant and SCE will schedule the interconnection at a point in time when the CDWR pumping station is most able to accept a short duration outage, such as during a maintenance shutdown. CDWR plans to submit to the CEC a proposed Condition of Certification that addresses the issue of an interconnection outage at the pumping station upon completion of negotiations with SCE and the Applicant.

Data Request 76:

Clarify if any existing poles that are supporting the above Vincent – Pearblossom 230 kV line will be removed after relocating the transmission lines.

Response:

The existing wooden H-frame pole structures supporting the transmission line between the Vincent and Pearblossom Substations (i.e., Segment 2) follow along an existing SCE easement established for the transmission line right of way, which provides power to the CDWR's Pearblossom pumping station. PHPP's new Segment 2 transmission line will replace the existing wooden H-frame SCE line, serving both the PHPP and DWR. The wooden H-frame structures will no longer be used and will be discarded following standard industry practices. They will be replaced with new steel monopoles capable of handling two (2) 230 kV circuits. There is an existing spur transmission line located on CDWR's property which is constructed of the same wooden H-frame structures. This spur will be the location where the new 230 kV feed from Vincent leaves the steel poles and is

Technical Area: Transmission System Engineering Supplemental Response Date: March 2, 2009

restrung along existing H-frames to the CDWR pumping plant. This short spur transmission line and associated H-frame structures will not be replaced nor impacted by the PHPP.

Data Request 78:

Provide the Facility Study Plan.

Response:

In accordance with the Federal Energy Regulatory Commission (FERC) Large Generation Interconnection Procedures (LGIP), the California Independent System Operator (CAISO) and SCE are currently in the process of performing an Interconnection Facilities Study for the PHPP. The Interconnection Facilities Study (Facility Study) does not require the development of a Facility Study Plan prior to the development of the actual Facility Study.

Data Request 79:

Provide the Facility Study Report.

Response:

See the response to Data Request 73. The Interconnection Facilities Study (Facility Study) for the PHPP is expected to be completed by CAISO and SCE within the next few weeks and will be forwarded to the CEC as soon as it is received by the Applicant.

ATTACHMENT DR-75

Correspondence with CDWR

From: Rick Buckingham <rbucking@water.ca.gov>

Date: Mon, 2 Feb 2009 10:55:54 -0800

To: Allen Cadreau <allencadreau@inlandenergy.com>

Subject: RE: Palmdale project (PHPP) project

Thanks!, Looking forward to seeing you on Wednesday ...

Rick Buckingham

Sr. Transmission Contracts Specialist

CDWR - State Water Project phone: 916.574.0657 cell: 916.698.7962

From: Allen Cadreau [mailto:allencadreau@inlandenergy.com]

Sent: Monday, February 02, 2009 10:55 AM

To: Buckingham, Rick

Subject: Re: Palmdale project (PHPP) project

Hello Rick, the prior. SCE will build a new 230kv steel pole (in place of old H-frames) that is capable of handling 2 - 230kv circuits. One for the project and one for DWR. The old H frames will be removed and discarded.

Allen

On 2/2/09 10:37 AM, "Rick Buckingham" <rbucking@water.ca.gov> wrote: It was great talking with you as well. By the way, there seems to be two stories that I hear, would the Project have SCE build new towers from Pearblossom's vicinity to Vincent (and put our lines on them) or would there be a new line that parallels our current wooden towers?

Rick Buckingham

Sr. Transmission Contracts Specialist

CDWR - State Water Project phone: 916.574.0657 cell: 916.698.7962

From: Allen Cadreau [mailto:allencadreau@inlandenergy.com]

Sent: Friday, January 30, 2009 3:33 PM

To: Buckingham, Rick

Subject: Palmdale project (PHPP) project

Hello Rick,

That was great timing. Thanks again for the call and the link. We are please that you will be attending the CEC workshop on Feb 4th. We look forward to working together with you and your staff.

Allen G. Cadreau VP of Engineering Inland Energy Inc. Newport Beach CA. 92660 Cell 714 686 9792 Work 949 856 2200

Technical Area: Project Description Submittal Date: March 2, 2009

Minor revisions have been made to the Palmdale Hybrid Power Project (PHPP) site layout and linear routes to reflect agency requests, further engineering, and site conditions. A list of the proposed changes is provided below, followed by additional description of the changes. Most of the changes involve rearrangement within the site or slight changes to linear facility routes that do not involve new potential impacts. Some of these changes have been previously provided to the CEC, e.g., the revised conceptual site plan and secondary access road, but are included here to provide a more complete list of changes. In addition, there have been changes to short portions of the transmission line associated with the recent work to indentify specific pole locations that will necessitate some additional field survey work to be completed. The results of these additional surveys will be provided within 30 days of the completion of the field work.

Changes to the PHPP include:

- Changes to the conceptual site layout include slight changes to the primary site access road, addition of a second (emergency) access road, relocation of the gas metering station, adjustment to the locations of the detention basins, a decrease in the acres of solar field and a slight increase in the number of acres (5 acres) for the power plant site overall.
- Changes in the power block plot plan and sources include slight relocation of the
 combustion turbines, increase in the size of the Auxiliary Boiler from 100 MMBtu/hr to 110
 MMBtu/hr including increasing the stack height (from 30 feet to 60 feet), decrease in the
 stack heights (from 30 feet to 16 feet) of the emergency diesel generator and fire water
 pump engine, and relocation of the ammonia storage tank.
- Relocation of the sanitary wastewater and potable water pipelines.
- Relocation of short pieces of the transmission line, i.e., along Lone Oak Rd and the interconnection with the Vincent substation.

Further descriptions of these changes are provided below. Additionally, three figures which show the changes are provided at the end of this section.

Changes to the Site Layout

Figure 2-4 in the AFC provided the General Arrangement Site Plan for PHPP, showing the relative locations of the solar array, power block, laydown area and other site features. Subsequent to the submittal of the AFC, several changes to the site layout as described above are proposed. A revised Figure 2-4 is provided at the end of this section. A revised conceptual site plan was previously provided to the Energy Commission related to questions raised about the detention basins. A second access road was added to the preliminary Landscape Plan provided on January 12, 2009. This new figure is consistent with those submittals but is a change from the AFC.

The City has determined that some minor changes to the primary access road would improve overall site access for PHPP and the possible future development of the western half of the site. In response to a request by the Energy Commission, a second emergency access road that runs along the eastern boundary of the site has been added.

Technical Area: Project Description Submittal Date: March 2, 2009

Southern California Gas Company (SCG) requested that the gas metering station be relocated, so it was moved from within the power block to a location on the western boundary of the plant site. It has been moved away from the power block so that SCG can perform venting operations without plant safety concerns. It was moved to a location outside the facility fence to allow for easier access but still with the security of a dedicated entrance. Thirdly, the station was moved to a location that will be more convenient for a future development on the remaining 300 acres to the west on property also owned by the City.

The site grading plan was revised and some adjustments made to improve the utility of the detention basins. Note, in some places in the AFC these basins were referred to as "ponds", which lead to some confusion. The PHPP will not utilize evaporation ponds and instead will use a zero liquid discharge brine crystallizer. The detention ponds will be used to catch storm water and hold the water until it can soak into the ground, which is expected to occur rapidly, and hence minimize storm water runoff from the site. The grading changes lead to about a one foot decrease in elevation in parts of the site, with some additional berms around the detention basins and property sides.

The changes above lead to some adjustments which slightly increased the number of acres for the site from 327 to 333 acres, with a 50 acre laydown area during construction. The breakdown of the site acreage is as follows:

Solar field: 251 acres Power block: 26 acres

Roadways (primary and secondary): 24 acres

Detention basins: 20 acres
Setbacks and slopes: 12 acres
Construction laydown area: 50 acres

Total: 333 acres (383 acres including temporary construction laydown area)

Changes to the Power Block

The project originally proposed to use a 100 MMBtu/hr natural gas fired auxiliary boiler to pre-heat the combined cycle system's steam seals and piping to facilitate faster startups as part of GE's Rapid Start Process. Further engineering work by GE has identified that a slightly larger, 110 MMBtu/hr boiler, would be preferred. This modest increase in output provides a higher steam load to facilitate the sealing of the units at start up. This equipment change has caused negligible changes to the power plant emissions. Revised tables of the Maximum Hourly and Annual Auxiliary Boiler Emissions (AFC Table 5.2-22) and Total Annual Potential Emissions, Normal Operation (AFC Table 5.2-27) are provided below (revised emissions shown in italics). Since all changes in emissions would be to the second decimal place, the only change in the total plant emissions from the AFC to those shown below is an increase in the total CO from 254.8 tpy to 254.9 tpy. No other total emissions in Table 5.2-27 were changed as a result of this increase in size of the boiler.

Technical Area: Project Description Submittal Date: March 2, 2009

In addition to the criteria pollutant increase, the greenhouse gas (GHG) emissions also increase slightly. A ten percent increase in the auxiliary boiler CO_2 and other GHG emissions increases the emission estimates given in AFC Table 5.2-28 from 1,852,123 metric tpy CO_2 equivalents to 1,852,389 metric tpy CO_2 equivalents.

Table 5.2-22R Maximum Hourly and Annual Auxiliary Boiler Emissions

Pollutant	Hourly Emission Rate (lb/hr)	Annual Emissions (tpy)
NO _X	1.21	0.30
VOC	0.59	0.15
СО	4.05	1.01
SO ₂	0.06	0.02
PM10	0.82	0.20

Table 5.2-27R Total Annual Potential Emissions, Normal Operation

Source	NO _X (tpy)	CO (tpy)	VOC (tpy)	PM/PM10/PM2.5 (tpy)	SO ₂ (tpy)
Combustion turbines/HRSGs	113.7	252.6	39.64	117.1	8.83
Auxiliary Boiler	0.30	1.01	0.15	0.20	0.016
HTF Heater	0.22	0.74	0.11	0.15	0.012
Emergency Generator	0.67	0.39	0.04	0.022	0.0007
Fire-Water Pump Engine	0.03	0.026	0.001	0.0015	5.0E-05
Cooling Tower	n/a	n/a	n/a	7.1	n/a
Maintenance Vehicles	0.39	0.12	0.03	1.51	0.00
Total	115.3	254.9	40.0	126.1	8.9
Revised emissions shown in italic		•	•	•	

Due to the new boiler and further engineering on the power block, a few other minor changes were made. Design refinements to the auxiliary boiler resulted in an increase in the planned stack height from 30 feet to 60 feet. The distance between the two combustion turbine stacks was increased to 135 feet, allowing for more room for duct bank placement in between the stacks. The emergency generator and fire water pump engine was previously assumed to be located inside the larger buildings in the power block. These buildings had a nominal height of 24 feet and the projected stacks were proposed at six feet above this height. Subsequent design refinements now have these emergency engines with 16 ft stack heights. Other slight changes, such as moving the ammonia storage tank, were made as result of the combustion turbine stack relocation.

Technical Area: Project Description Submittal Date: March 2, 2009

The changes to the boiler emissions, stack locations, and stack heights were modeled to ensure there would be no changes to the conclusions in the AFC. There was a slight increase in hourly concentrations (NO_2 and CO) due to the reduction in stack height of the emergency diesel generators and a slight decrease in the longer averaging periods (8-hour CO and 24-hour PM10/PM2.5) due to the increase in stack height of the auxiliary boiler. All concentrations remained below applicable standards and thresholds. Revised modeling files can be provided to the CEC; however, the CEC air consultant mentioned at the February 4, 2009 Workshop that an additional Set of Data Requests is forthcoming with some questions about the modeling. Therefore, we propose to provide updated modeling files after it is determined if further changes are needed in response to these requests.

AFC Figure 2-5 provided a General Arrangement of the Power Block, and a revised figure that reflects the changes discussed above is provided at the end of this section.

Changes to the Sanitary Wastewater and Potable Water Pipeline routes

The sanitary wastewater pipeline was shown in the AFC to travel about a mile up 15th St. E to connect with an existing sewer system along E Ave. L. The City evaluated other options and has instead selected a slightly shorter route to an existing connection point that proceeds north from the east side of the power block, then east along E Ave. M to approximately 25th St. E where it will connect with the sanitary wastewater main. This route was chosen to keep this component of the project within the City of Palmdale's jurisdiction and because of a more favorable grade. The route has already been surveyed for biological, cultural, and paleontological resources as it runs parallel to the proposed transmission line along E Ave. M, and hence the potential for impacts has already been analyzed. Further, this change eliminates the minor impact of a one mile line to the north of the plant site.

The potable water line alignment has also changed from that portrayed in the original AFC submittal. The potable water pipeline originates on E Ave. M near the water tanks between 5th and 6th St. E. It used to proceed along E Ave. M, turn south along 15th St. E and enter the power block from the east. The new proposed alignment will instead proceed along E Ave. M, but turn south sooner at the new site entrance on 10th St. E, follow the new access road entering the power block from the west. This new alignment will better support potential City plans for development of the western portion of the site. The change to the alignment is wholly within the PHPP power plant site which has already been surveyed. The route proposed to travel east along E Ave M between 5th St. E and 10th St. E has also been surveyed since this is part of the original potable water alignment. Hence, no additional impacts have been identified due to this change.

The new proposed routes for the sanitary wastewater and the potable water pipelines are shown on a figure showing all of the linear routes. This new figure, PD-1, is provided at the end of this section.

Technical Area: Project Description Submittal Date: March 2, 2009

Changes to the Transmission Line route

CEC Data Request Set 1 included a request to provide specific pole locations for the transmission line. It also requested additional information on the pole locations, spur roads and related facilities in relation to washes and other streambeds. Further discussions with Southern California Edison (SCE) and more detailed engineering to address these requests have caused changes to be made to the proposed alignment near the beginning of and at the end of Segment 2 of the transmission line from the way it was originally depicted in the AFC.

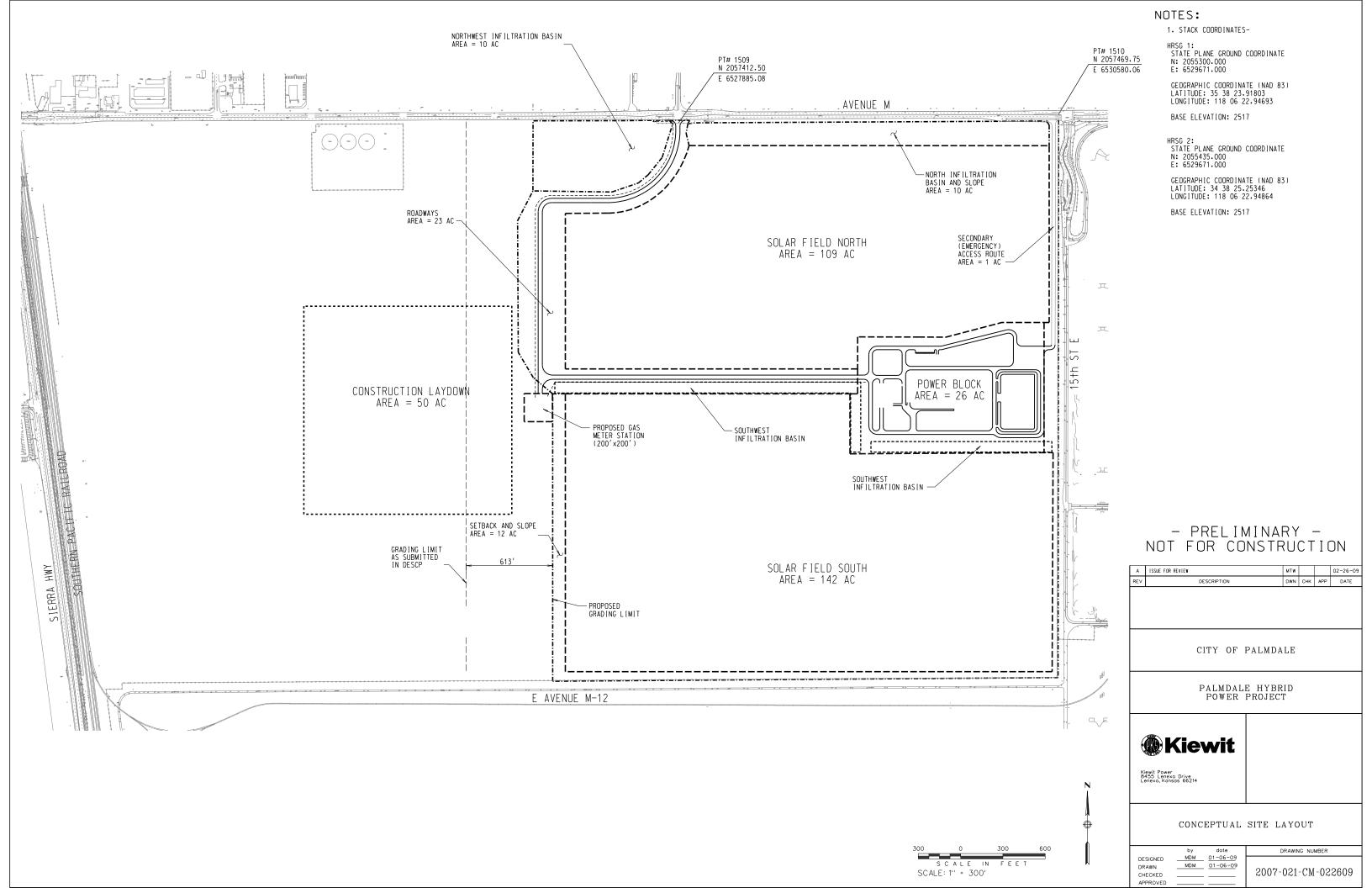
Originally the transmission line was to enter the Vincent Substation on the north side of the facility. The administrative and control buildings are clustered on the north side of the Vincent substation and SCE would not allow the PHPP transmission lines to cross over these structures to the switchyard on the south side of the substation. The newly proposed alignment has the transmission line now running south down E. Soledad Pass Road, then south and west on Hillside Drive into the substation from the south.

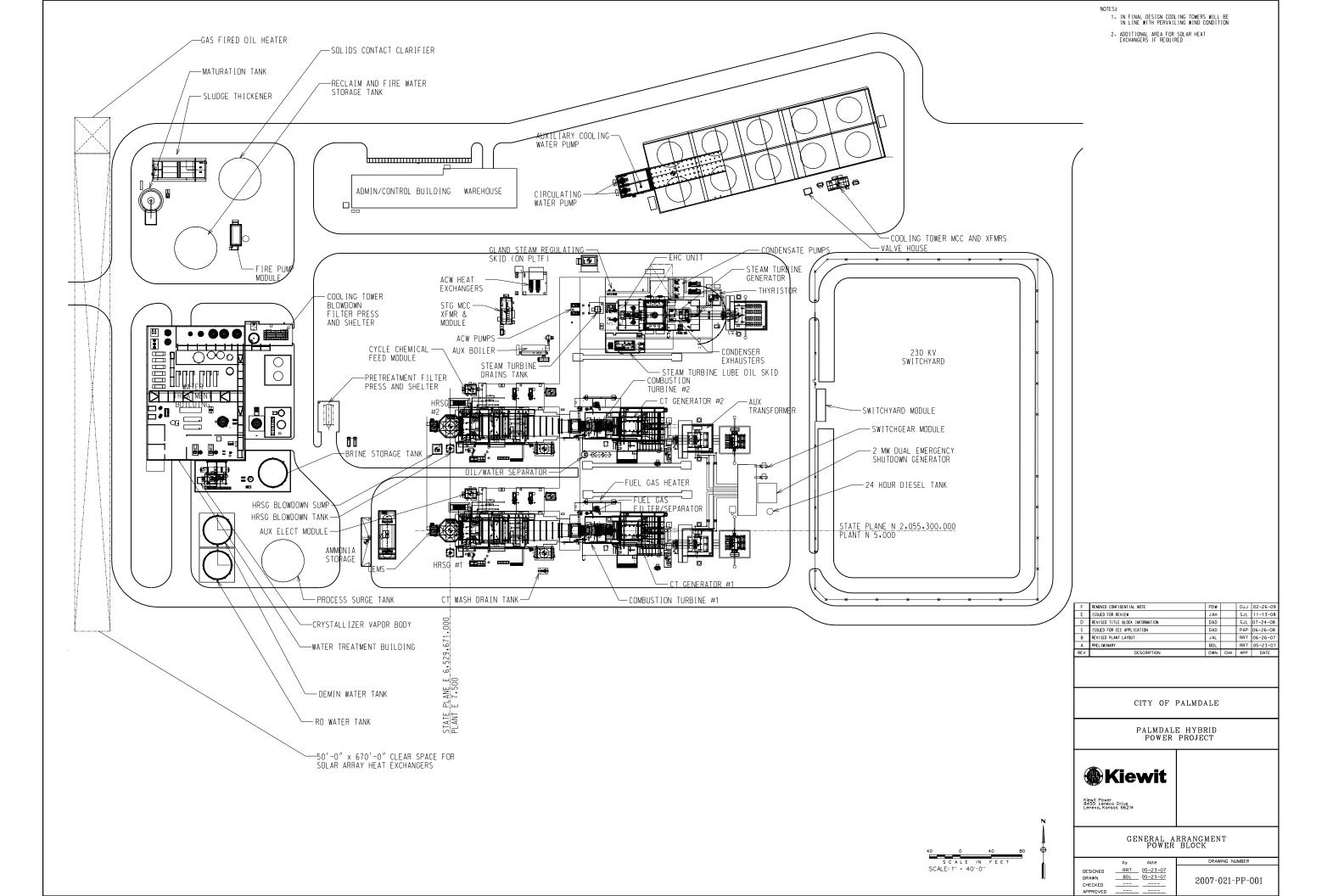
Additionally, the transition from Segment 1 to Segment 2 of the transmission line into the Pearblossom switchyard is along Lone Oak Rd. The transmission line will still roughly follow Lone Oak Rd., but is now slightly further north, outside of the corridor previously surveyed for cultural resources.

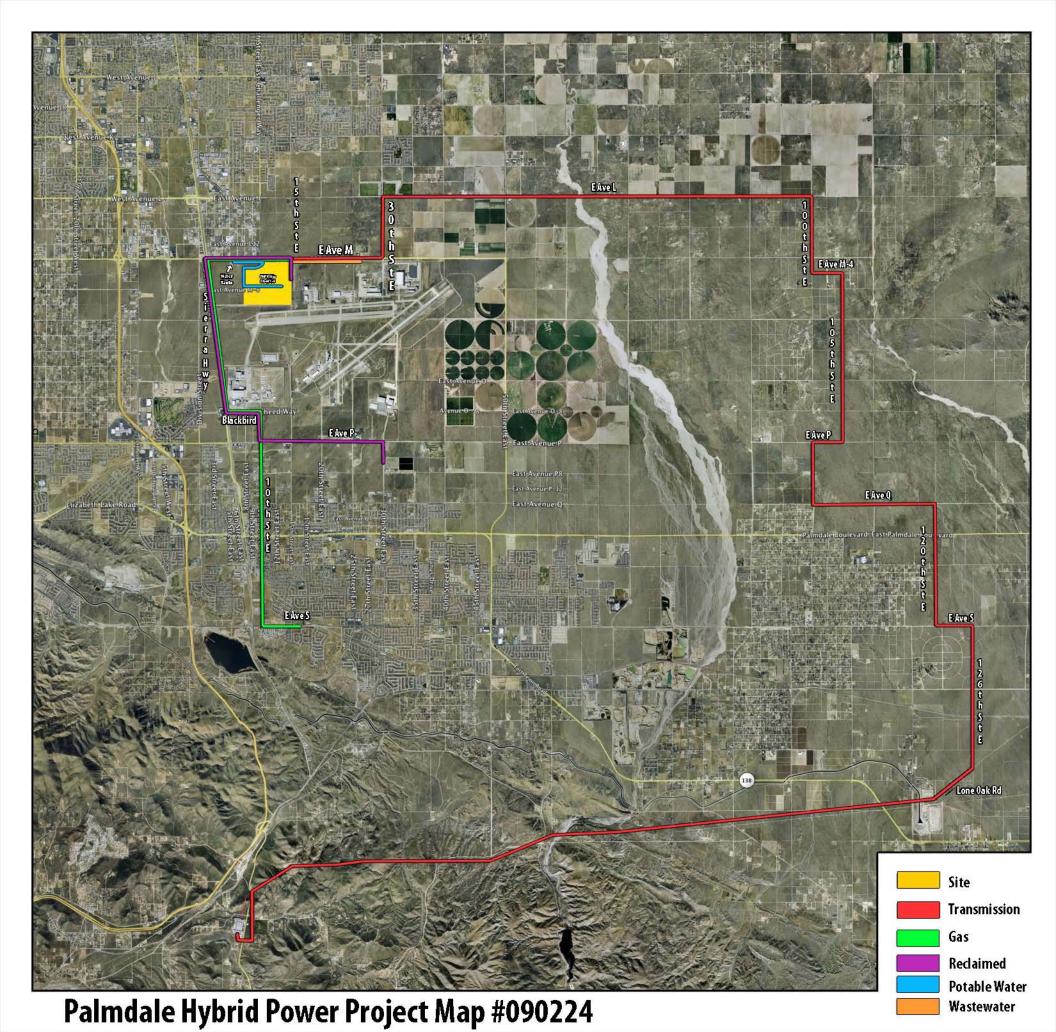
These two changes to the alignment are minor; however they will require some additional field surveys. The required cultural surveys will be conducted in March and the results provided within 30 days of the completion of the work. Biological surveys for special status species will be conducted in the proper time of year (e.g., March – April), and results provided in a timely manner.

In addition, there were several areas of concern where transmission pole location, spur road, and/or proposed work or staging areas had the potential to impact a jurisdictional water, and actions were taken to avoid any potential impacts, including relocation of staging areas and minor relocations of transmission line poles. These changes are summarized in the Biological Resources section of this March 2, 2009 Supplemental Responses submittal.

The changes to Segment 2 of the transmission line are shown on the figure showing all of the linear facilities (same figure as above for the potable and wastewater pipelines) provided at the end of this section, as well as in the revised Google Earth fly-over which is included in the CD as part of this submittal.







STATE OF CALIFORNIA ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

In the Matter of:) Docket No. 08-AFC-9
Application for Certification, for the CITY OF PALMDALE HYBRID	PROOF OF SERVICE LIST
POWER PLANT PROJECT	(Revised February 27, 2009)
	j j

Transmission by depositing one original signed document and twelve (12) copies with an overnight mail delivery service at Camarillo, California with delivery fees thereon fully prepaid and addressed to the following:

DOCKET UNIT

CALIFORNIA ENERGY COMMISSION

Attn: DOCKET NO. 08-AFC-9 1516 Ninth Street, MS-15 Sacramento, California 95814-5512 docket@energy.state.ca.us

Transmission via regular mail delivery to the following:

APPLICANT

Laurie Lile

Assistant City Manager City of Palmdale 38300 North Sierra Highway, Suite A Palmdale, CA 93550 llile@cityofpalmdale.org

Thomas M. Barnett

Executive Vice President Inland Energy, Inc. 3501 Jamboree Road South Tower, Suite 606 Newport Beach, CA 92660 tbarnett@inlandenergy.com

Antonio D. Penna Jr.

Vice President
Inland Energy
4390 Civic Drive
Victorville, CA 92392
tonypenna@inlandenergy.com

PALMDALE HYBRID POWER PROJECT CEC Docket No. 08-AFC-9

APPLICANT'S COUNSEL

Michael J. Carroll
Marc Campopiano
Latham & Watkins, LLP
650 Town Center Drive, Suite 2000
Costa Mesa, CA 92626

INTERESTED AGENCIES

California ISO P.O. Box 639014 Folsom, CA 95763-9014 e-recipient@caiso.com

ENERGY COMMISSION

Jeffrey D. Byron

Commissioner and Presiding Member jbyron@energy.state.ca.us

Arthur H. Rosenfeld

Commissioner and Associate Member pflint@energy.state.ca.us

Paul Kramer Hearing Officer

pkramer@energy.state.ca.us

INTERESTED PARTIES

Rick Buckingham

3310 El Camino Avenue, LL-90 State Water Project, Power & Risk Office Sacramento, CA 95821 rbucking@water.ca.gov

Manuel Alvarez

Robert J. Tucker

Southern California Edison 1201 K Street Sacramento, CA 95814 Manuel.Alvarez@sce,com Robert.Tucker@sce.com

Felicia Miller

Project Manager FMiller@energy.state.ca.us

Caryn Holmes

Staff Counsel

CHolmes@energy.state.ca.us

Elena Miller

Public Adviser

Publicadviser@energy.state.ca.us

DECLARATION OF SERVICE

I, Sara J. Head, declare that on February 28, 2009, I served and filed copies of the attached:

PALMDALE HYBRID POWER PROJECT SUPPLEMENTAL RESPONSES TO CEC DATA REQUESTS SET 1

The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service List, as shown above. The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service List) and to the Commissioner's Docket Unit, in the following manner: sent through overnight mail or regular mail delivery service at Camarillo, California with delivery fees thereon fully prepaid and addressed to the California Energy Commission and to those identified on the Proof of Service list above.

I declare under penalty of perjury that the foregoing is true and correct

Sara I Head