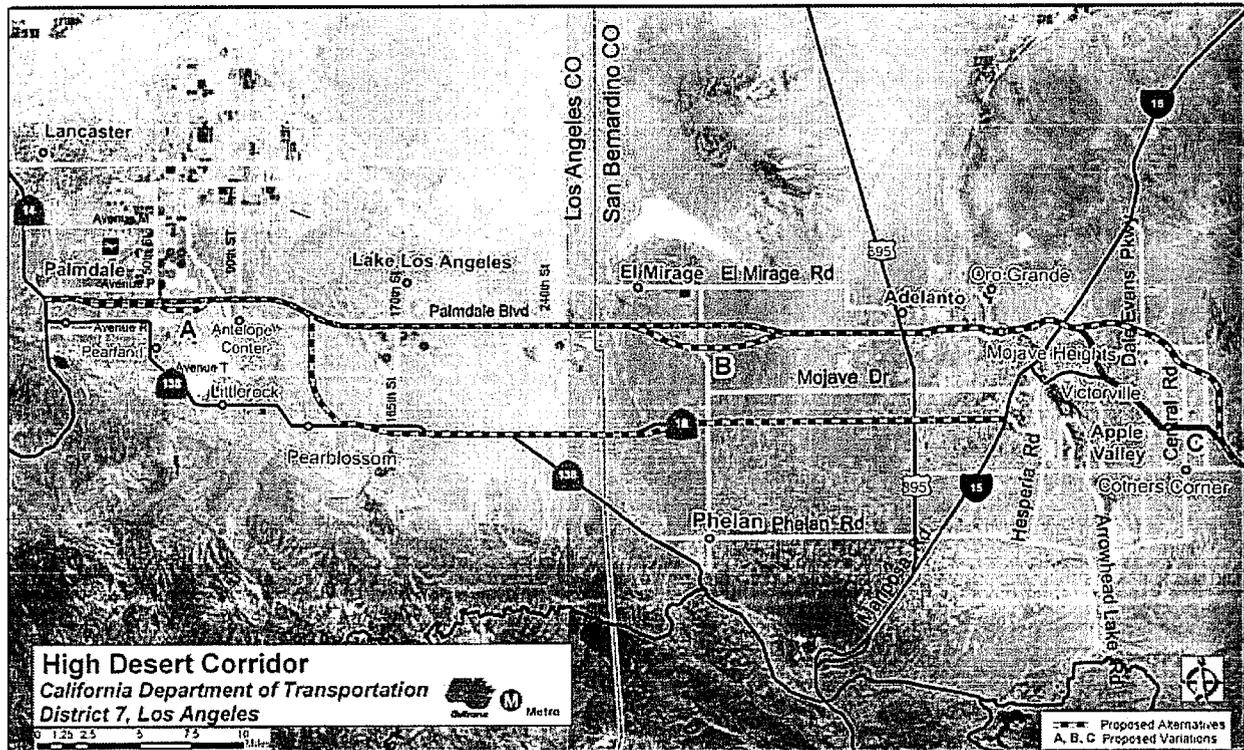


SUPPLEMENTAL-INITIAL SITE ASSESSMENT (S-ISA)

NEW LA-138 HIGHWAY Between 100th Street and San Bernardino County Line PALMDALE, CALIFORNIA



EA No.: 2600U0
E-FIS No.: 0712000035

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TABLE

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APPENDIXES

Appendix A - List of Parcels Affected by Design Alternatives and Aerial Photographs Showing Proposed Right of Way (R/W) and Affected Parcels (From 100th Street to San Bernardino County Line)

Appendix B - Aerial Photographs (Google Maps) within Project Study Limits

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EXECUTIVE SUMMARY AND RECOMMENDATION

This report presents results of a Supplemental Initial Site Assessment (S-ISA) conducted by the California Department of Transportation (Caltrans) staffs for properties between **180th Street and 230th Street** associated with the proposed Variation D2 for the new highway 138 located at High Desert Corridor (HDC) area. The original Initial Site Assessment (ISA) dated August 31, 2011 was prepared for alternatives 2 and 3. On March 22, 2012, the project development team determinates another alternative 3 (or Variation D) with alignment variation approximately 9.0 miles in length from 140th Street to 230th Street. On October 12, 2012, a revised alignment, Variation D2, is suggested to replace the Variation D. The alignment of the Variation D2 is approximately 5 miles in length from 180th Street to 230th Street. The properties accessed for this S-ISA includes **75** parcels located in the City of Palmdale, Los Angeles County, California. The project study limits are within a low developed or undeveloped area including majority of vacant lands. There are some single family residences and commercial/ industrial properties within the parcels affected by design alternatives. Based upon the results of historical research, review of environmental database, the previous ISA in this area, and our site reconnaissance, the following hazardous waste concerns have been identified and recommendations are suggested. A comparison of environmental hazardous waste properties between alternatives 2 and 3 and Variation D2 is addressed also.

Significant Hazardous Waste Concerns

Alternatives 2 & 3

One (1) property is listed in the potentially impacted parcel showing significant environmental hazardous waste concerns and acquiring the parcel may impact the project. A Phase II hazardous waste site investigation is suggested before acquiring the property. The potential hazardous waste concern property will be removed if the Variation D2 is the preference alternative.

- A commercial/industrial building located at 18846 E. Palmdale Blvd., Palmdale, CA 93591. The facility shows business of cars and equipments as the disposed junk cars and equipments are stored at their backyard.

Variation D2

No any property is listed in the potentially impacted parcel showing significant environmental hazardous waste concerns.

Potential Hazardous Waste Concerns

Alternatives 2 & 3

One (1) single family residence is listed as parcel affected by design alternatives showing the potential of hazardous waste concern and acquiring these parcels may impact the project. A site reconnaissance and further hazardous waste site investigation is suggested (if needed) before

acquiring these properties. The potential hazardous waste concern property will be removed if the Variation D2 is the preference alternative.

- One single family residence located at 18842 E. Palmdale Blvd., Palmdale, CA 93591 was identified to have junk cars and equipments stored at the backyard.

Variation D2

A single family residence was observed (APN No.: 3084-017-024) at local address of 21216 E. Avenue R, Lancaster, CA 93591. Many junk cars, abandoned machines, and used equipment were observed at surrounding area. There is a potential of hazardous waste concern for this parcel and a further site investigation may be required.

Asbestos Containing Materials (ACMs) and Lead-Based Paint (LBP)

Prior to demolition of any old buildings, ACMs and LBP surveys should be conducted. If ACMs and/or LBP are detected, appropriate permits must be obtained from the regulatory agencies and these materials must be removed by a licensed contractor prior to demolition.

Aerially Deposited Lead (ADL)

The ADL is not anticipated to be a concern for the proposed highway 138 location because the alignment is not along the existing street or highway. Appropriate health and safety measures should be taken to minimize the exposure to lead while disturbing unpaved soil adjacent to high traffic volume streets. A Phase II ADL site investigation is recommended in these locations to develop appropriate health and safety measures for handling and disposal of ADL contaminated soils, if any.

Oil and/or Gas Well

One (1) oil well is located within the S-ISA project study limits between 180th Street and 230th Street; however, this one oil well was plugged and abandoned. We recommend conducting tests for Total Petroleum Hydrocarbons (TPHs) for naturally occurring petroleum hydrocarbons, and hydrogen sulfide (H₂S) and methane (CH₄) gases if deep excavation and/or borings are proposed.

Groundwater

Groundwater depth varies within the project limits. The lowest groundwater level is found between 130th Street and 160th Street. Groundwater is anticipated to be encountered if bridge columns are installed in Big Rock Wash area between 140th Street and 150th Street. If dewatering is expected during the construction phase, a groundwater quality analysis shall be conducted in advance for obtaining National Pollutant Discharge Elimination System (NPDES) Permit.

The groundwater gradient beneath the site is estimated to follow the gradient of the existing topography, i.e., south-southeast. Therefore, any potential contaminant sources from north and northwest directions of the Site may have potential to impact the Site

1. INTRODUCTION

On August 31, 2011, an Initial Site Assessment (ISA) was performed to identify contaminated and potential contaminated areas, and hazardous and potentially hazardous waste concerns within and adjacent to the existing and proposed Department's Right of Way from LA-14 to San Bernardino County Line in Los Angeles County within the limits of the project. The alignments for alternatives 2 and 3 between 100th Street and San Bernardino County Line are the same. On March 22, 2012, the project development team determines another alternative 3 (or Variation D) with alignment variation approximately 9.0 miles in length from 140th Street to 230th Street (Figure 1). We are requested to update the existing ISA to reflect the inclusion of this alignment variation. On October 12, 2012, a revised alignment for Variation D (Variation D2) is suggested to replace the Variation D. The alignment of the Variation D2 is approximately 5 miles in length from 180th Street to 230th Street (Figure 1). The impacted parcels between 145th Street and 180th Street are removed and new impacted parcels between 180th Street and 230th Street are included (Table 1 & Figure 2). A Supplemental Initial Site Assessment (S-ISA) is prepared and revised based upon information provided to us by design and environmental planning branches. The information includes list of parcels affected by design alternatives and updated layout plan for this new alternative Variation D2 showing the proposed LA-138 highway. This information is presented in Appendix.

1.1 BACKGROUND

The proposed project is located in the High Desert Corridor (HDC) of Los Angeles County and San Bernardino County, and extends approximately 63 miles between SR-14 in Palmdale and SR-18 in Apple Valley. In Los Angeles County, the HDC roughly follows the Avenue P-8 corridor. Improvements of this HDC project are considered necessary to provide for the existing and projected traffic demands attributed to residential growth and increasing developments in Antelope, Victorville, and Apple Valley areas. This growth results an inadequate traffic capacity and accessibility problem along the existing east-west roadways as well as an increasing demand for goods movement along the corridors and access to regional airports.

1.2 SCOPE OF SERVICES

The scope of services includes conducting an S-ISA (Phase I) for the portion of this project in Los Angeles County. According to the American Society for Testing and Materials (ASTM), the purpose of the Phase I Environmental Site Assessment (ESA) is to find "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property."

This S-ISA includes three (3) components: Limited Records Review, Site Reconnaissance, and Report Preparation. This study did not review all the records suggested by the ASTM E1527-05 or latest revision. The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions in connection with these proposed locations. The objective of the site reconnaissance is to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with these locations. The report presents the findings of this investigation and provides recommendation for detail Phase II site investigations, if needed.

1.3 LIMITATIONS

The S-ISA report includes documentation to support the analyses, opinions and conclusions as presented. The findings and conclusions in this report are based solely on the limited records review, including information from a variety of sources. Because the scope of this S-ISA is necessarily limited and is based in part on the third party sources and significant assumptions, Caltrans does not guarantee that these parcels within the project study limits those are not identified to have environmental concerns are free of hazardous waste materials or petroleum hydrocarbon release. The contents of this S-ISA report reflect the information obtained from the reviewed database, previous ISA reports, and site reconnaissance.

2. SITE DESCRIPTION

The S-ISA covers the areas from beginning of 180th Street to 230th Street. A site reconnaissance was performed by Jack Tuanchi Liu, P.E. and Nathan Chou, P.E. on August 20, 2012. The site reconnaissance focused on general review of the new proposed alternative 3 (or Variation D2) with 5.0 miles alignment variation to determine if any significant environmental concerns within these locations and surrounding areas may have an impact on this project. Aerial photographs from the Google Map have been reviewed and are presented in Appendix B. Site reconnaissance for impacted or potential impacted properties will be discussed later. Each aerial photograph covers an area of one (1) square miles (approximately 640 acres). The following are summary of the site description.

A. From 180th Street to 190th Street

The alternatives 2 and 3 of the highway 138 within this area are located between Palmdale Blvd. and Avenue R. The new proposed alternative 3 (or Variation D2) swings south from 0.19 mile (or 1,000 feet) east of the 180th Street to about 0.17 mile (or 900 feet) south of the originally proposed alternatives 2 and 3 which is about 0.05 mile (or 250 feet) north of Avenue R. (Aerial Photo B01). Twenty new impacted parcels are currently vacant lands and covered with bushes and cactuses. No hazardous waste concerns were observed during the site reconnaissance. No off-site facilities in the immediate site vicinity that would be

considered an environmental concern. Twenty-nine previous impacted parcels in alternatives 2 and 3 including four (4) single family residences and one commercial/ industrial building are removed from the potential impacted list in Variation D2. The commercial/ industrial building is located at south-west corner of the intersection between Palmdale Blvd. and 190th Street and local address is 18846 E. Palmdale Blvd., Palmdale, CA 93591. The commercial/ industrial building was listed as a significant hazardous waste concern in alternatives 2 and 3 due to the business of cars and equipments with junk cars and equipments were observed at their backyard.

B. From 190th Street to 200th Street

The alternatives 2 and 3 of the highway 138 within this area are located between Palmdale Blvd. and Avenue R. The new proposed alternative 3 (or Variation D2) in 190th Street is located from 0.17 mile (or 900 feet) south of the proposed alternatives 2 and 3 (Photo B02) and continuously swing south to about 0.30 mile (or 1,600 feet) of the originally proposed alternatives 2 and 3 which is about 0.07 mile (or 350 feet) south of Avenue R. Eleven new impacted parcels are currently vacant lands and covered with bushes and cactuses. There is NO development within this area. No off-site facilities in the immediate site vicinity would be considered as an environmental concern. No hazardous waste concerns were observed during the site reconnaissance. Forty-nine previous impacted parcels involved in alternatives 2 and 3 are removed from the potential impacted list.

C. From 200th Street to 210th Street

The alternatives 2 and 3 of the highway 138 within this area are located between Palmdale Blvd. and Avenue R. The new proposed alternative 3 (or Variation D2) in 200th Street is located about 0.30 mile (or 1,600 feet) south of the proposed alternatives 1 and 2 (Photo B03) and continue extending to 210th Street. Fifteen new impacted parcels including fifteen parcels are currently vacant land and one (1) parcel, Parcel No. 3084-004-018, is currently used as residential house. The local address of the residential house is 20847 E. Avenue R, Lancaster, CA 93591. For these vacant lands and one (1) residential house, no hazardous waste concerns were observed during the site reconnaissance. No off-site facilities in the immediate site vicinity would be considered as an environmental concern. There are thirty-four previous impacted parcels including eight (8) residential houses, three residential houses located between 200th St. and 205th St., and five (5) residential houses located between 205th St. and 210th St., involved in alternatives 2 and 3 are removed from the potential impacted list.

D. From 210th Street to 220th Street

The alternatives 2 and 3 of the highway 138 within this area are located between Palmdale Blvd. and Avenue R. The new proposed alternative 3 (or Variation D2) in 210th Street is

located about 0.30 mile (or 1,600 feet) south of the proposed alternatives 2 and 3 (Photo B04). After 215th Street, the proposed Variation D2 starts to swing north to about 0.26 mile (or 1,400 feet) of the originally proposed alternatives 2 and 3 which is about 0.04 mile (or 200 feet) south of Avenue R. Fifteen new impacted parcels are currently vacant lands and one (1) parcel, Parcel No. 3084-017-024, is currently used as residential house. The local address of the residential house is 21216 E. Avenue R, Lancaster, CA 93591. For these vacant lands and one (1) residential house, no hazardous waste concerns were observed during the site reconnaissance. No off-site facilities in the immediate site vicinity would be considered as an environmental concern. Thirty previous impacted parcels involved in alternatives 2 and 3 are vacant lands and these parcels did not show hazardous waste concern. These thirty parcels are removed from the potential impacted list.

E. From 220th Street to 230th Street

The alternatives 2 and 3 of the highway 138 within this area are located between Palmdale Blvd. and Avenue R. The new proposed alternative 3 (or Variation D2) in 220th Street is located from 0.26 miles (or 1,600 feet) south of the proposed alternatives 2 and 3 and the Variation D2 is gradually swing north to approach the original proposed alternatives 2 and 3 (Photo B05) which is about 1,000 feet east of the 230th Street. Fourteen new impacted parcels are currently vacant land which is covered with bushes and small cactuses. No off-site facilities in the immediate site vicinity would be considered as an environmental concern. No hazardous waste concerns were observed during the site reconnaissance. Twenty-one previous impacted parcels including two (2) residential houses involved in alternatives 2 and 3 are removed from the potential impacted list. These vacant lands and residential houses did not show hazardous waste concern during our previous site assessment.

3. NEW IMPACTED PARCELS BY DESIGN ALTERNATIVES

There were 101 new parcels identified by the design as the impacted parcels for the Variation D. The Table 1 shows the APN No., owner name, county, city, and local address (if any) of the residential house. On October 30, 2012, the design has provided additional fourteen parcels due to a revised alignment for Variation D, Variation D2, is suggested to replace the Variation D. New parcels between 140th St. E. to 180th St. E. will be removed from our study. To identify the current use for these new parcels, we reviewed parcel information from the Office of Assessor, Los Angeles County and the "Proposed High Desert Corridor Alignments- Southern Alignment to Mitigate Vineyard and Exist Institution". There are only seventy-five new impacted parcels were identified within the new proposed alternative 3 (or Variation D2) between 180th Street and 230th Street. New parcels impacted by design alternatives are identified and presented in Appendix C. Information obtained from the Office of Assessor for Variation D2 and comparing with alternatives 2 & 3 are presented below.

A. From 180th Street to 190th Street

In Variation D2, **twenty** new impacted parcels within this area are currently vacant lands and no residential house is involved. In alternatives 2 & 3, there are four (4) residential houses and one (1) commercial/ Industrial building built in 1950 and 1962 within the impacted parcels in this area, and these five (5) parcels and other twenty-four vacant parcels were removed from the impacted parcels in Variation D2. The following impacted parcels with residential house in alternatives 2 & 3 which are removed from Variation D2.

- (1) APN No. 3030-021-035; Address: 18650 E. Palmdale Blvd., Palmdale CA 93591 (1962)
- (2) APN No. 3030-021-006; Address: 18726 E. Palmdale Blvd., Palmdale CA 93591 (1950)
- (3) APN No. 3030-021-005; Address: 18742 E. Palmdale Blvd., Palmdale CA 93591 (1959)
- (4) APN No. 3030-021-002; Address: 18842 E. Palmdale Blvd., Palmdale CA 93591 (1957)
- (5) APN No. 3030-021-001; Address: 18846 E. Palmdale Blvd., Palmdale CA 93591 (1960)

The commercial/ industrial building located at 18846 E. Palmdale Blvd., Palmdale CA 93591 (1962) and the family residence located at 18842 E. Palmdale Blvd., Palmdale CA 93591 (1957) were previous listed as the potential hazardous waste concerns and a further Phase II site investigation were recommended. If Variation D2 is the final preferred alternative, the above-mentioned two (2) parcels with potential of hazardous waste concern are deleted and no further Phase II site investigations shall be taken.

B. From 190th Street to 200th Street

In Variation D2, **eleven** new impacted parcels are currently vacant lands and no residential house or commercial development within this area. There is NO development within this area. **Forty-nine** previous impacted parcels are involved in alternatives 2 and 3 and these parcels are removed from the potential impacted list in Variation D2. No residential house or commercial development is involved in these forty-nine parcels.

C. From 200th Street to 210th Street

In Variation D2, **fifteen** new impacted parcels within this area are currently vacant lands and one residential house is involved. The residential house is located at the parcel's APN No. 3084-004-018 with a local address at 20847 E. Avenue R, Lancaster, CA 93591, and the residential house did not show any hazardous waste concerns during the site reconnaissance. No off-site facilities in the immediate site vicinity would be considered as an environmental concern.

In alternatives 2 & 3, fifteen residential houses built between 1953 and 1981 within the impacted parcels were found from records of the Los Angeles County Assessor. However, there are only seven (7) residential houses were observed during our site reconnaissance.

These seven (7) parcels with residential houses and other **twenty-seven** vacant parcels were removed from the impacted parcels in Variation D2. Seven (7) previously impacted parcels with residential house are listed in the following:

- (1) APN No. 3084-003-022; Address: 38250 200th Street E., Lancaster CA 93591 (1953)
- (2) APN No. 3084-003-016; Address: 20150 E., Ave. Q-10, Palmdale CA 93591 (1953)
- (3) APN No. 3084-003-006; Address: 20306 E., Ave. Q-12, Palmdale CA 93591 (1981)
- (4) APN No. 3084-003-033; Address: 20340 E., Ave. Q-12, Palmdale CA 93591 (1956)
- (5) APN No. 3084-004-009; Address: 20528 E., Ave. Q-12, Palmdale CA 93591 (1958)
- (6) APN No. 3084-004-010; Address: 20538 E., Ave. Q-12, Palmdale CA 93591 (1953)
- (7) APN No. 3084-004-024; Address: 20730 E., Ave. Q-10, Palmdale CA 93591 (1954)

During the site reconnaissance, the residential houses and off-site facilities in the immediate site vicinity did not show any hazardous waste concerns. However, asbestos containing materials (ACMs) and lead-based paint (LBP) may be present in any buildings built before 1980. A survey for ACMS and LBP shall be performed before demolition of these old buildings.

C. From 210th Street to 220th Street

In Variation D2, **fifteen** new impacted parcels within this area are currently vacant lands and one residential house is involved. The residential house is located at the parcel's APN No. 3084-017-024 with a local address and 21216 E. Avenue R, Lancaster, CA 93591, and the residential house did not show any hazardous waste concerns during the site reconnaissance. No off-site facilities in the immediate site vicinity would be considered as an environmental concern.

In alternatives 2 & 3, **thirty** previous impacted parcels involved in alternatives 2 and 3 and these parcels are removed from the potential impacted list in Variation D2. These thirty impacted parcels in this area are currently vacant lands. No residential house or commercial development is involved in these thirty parcels.

E. From 220th Street to 230th Street

In Variation D2, **fourteen** new impacted parcels within this area and these parcels are not developed and currently vacant lands. In alternatives 2 & 3, two (2) residential houses were built between 1955 and 1991 within the impacted parcels in this area, and these two (2) parcels were removed from impacted parcels in Variation D2.

- (1) APN No. 3084-011-015; Address: 22120 E. Palmdale Blvd., Palmdale CA 93591 (1955)
- (2) APN No. 3084-011-010; Address: 22210 E. Palmdale Blvd., Palmdale CA 93591 (1991)

During the site reconnaissance, the residential houses did not show any hazardous waste concerns. However, ACMs and LBP may be present in any buildings built before 1980. A survey for ACMS and LBP shall be performed before demolition of these old buildings.

4. ENVIRONMENTAL SETTING

4.1 REGIONAL PHYSIOGRAPHIC CONDITIONS

The Site is located in the Mojave Desert Ranges Geomorphic Province of Southern California. The Mojave Desert Province is wedge-shaped, bordered by the Garlock Fault to the Northwest, the San Andreas Fault to the southwest and the Nevada border to the east. The site is located northerly of the San Gabriel Mountains.

The terrain near the Site area is sloping toward the south, with the Site at an elevation of approximately between 2,580 to 2,600 feet based on the referenced USGS Quadrangle (See Section 2.0).

4.2 SITE GEOLOGY AND SUBSURFACE CONDITIONS

The land within the Site mainly lies to the south of the Palmdale Airport and predominantly undeveloped or vacant land. Per the Geologic Map of California and the Log of Test Borings performed by Geotechnical Division of Caltrans, the Site soil is of Quaternary alluvium consisting of sand, silty sands and gravelly sands with cobbles and boulders at discrete locations. No significant geologic structure is reported to have within the Site limits.

4.3 GROUNDWATER CONDITIONS

Groundwater may be found in the alluvial sedimentary formations. The depth of groundwater is usually the first layer of water encountered underneath the site. In addition, a certain depth at an individual site is not necessarily an indicator to the regional depth to groundwater. The depth to water is dependent upon the previous years of precipitation, which has been light in recent years. The Regional Water Quality Control Board (RWQCB) provides a database for the depth of groundwater in the internet site. To find out the groundwater depths within the project limits, we checked the web site, http://www.swrcb.ca.gov/rwqcb4/html/programs/ust/gw_database.html, for available groundwater wells data, and the results are presented in Appendix D. The database indicates that the groundwater depth varies 73.3 to 217.0 ft between 180th Street to the Los Angeles/ San Bernardino County Line (Figures D01-D03). The groundwater condition in ISA has covered groundwater information in variation D2.

4.4 POTENTIAL PATHWAYS OF CONTAMINANT MIGRATION

The groundwater gradient beneath the site is estimated to follow the gradient of the existing topography, i.e., south-southeast. Therefore, any potential contaminant sources from north and northwest directions of the Site may have potential to impact the Site.

5. SITE RECONNAISSANCE OF RESIDENTIAL PROPERTIES

The design branch provided layout plan and list of impacted parcels showing the potentially impacted parcels that will be acquired. Based upon the information provided by Design and Environmental Planning for the Variation D2, there are only two (2) residential houses are affected. A site reconnaissance was performed by Jack Tuanchi Liu, P.E. and Nathan Chou, P.E. on August 20, 2012. The site reconnaissance focused on the potentially impacted single family residences to see if any environmental hazardous waste concern could be observed within these parcels. The following is the summary of results of site reconnaissance of the parcels with single family residence listed under the parcels affected by design alternatives. Photographs for these parcels are presented in Appendix E. The reconnaissance was performed from the public roads. Therefore, the information presented for each parcel may not be complete due to the distance of the area of interest from the public roads. A further site investigation for the parcel may be necessary after right-of-entry permit is obtained.

- (1) APN Nos. 3084-004-018; Address: 20847 E. Avenue R, Lancaster, CA 93591. A single family residence was observed. There is no hazardous waste concern (Photo B03).
- (2) APN No.: 3084-017-024; Address: 21216 E. Avenue R, Lancaster, CA 93591. A single family residence was observed. However, many junk cars, abandoned machines, and used equipment were observed at surrounding area (Photo B04). There is a potential of hazardous waste concern and a further site investigation may be required.

6. HISTORICAL AERIAL PHOTOGRAPHS

Historical aerial photographs from the web site, <http://www.historicaerials.com>, are reviewed to find out the historical use of the areas within the project corridor. Historical aerial photographs dated 2005, 1974, 1959, and 1953 for every 10th Street (about 1 square mile) are reviewed and the results are presented in Appendix F. The summary of historical aerial photographs within the Variation D2 study areas is presented below:

A. From 180th Street to 190th Street

The new proposed Variation D2 for highway 138 is located from about 0.30 mile south of the Palmdale Blvd. to about 0.1 mile north of the Avenue R which is half (1/2) mile of Palmdale

Blvd. This area is currently a vacant land and covered with bushes and cactuses. Comparing the aerial photographs Photo F01a for year of 2005, Photo F01b for year of 1974, and Photo F01c for year of 1959 with the current aerial photograph Photo B01 in Appendix B, no change in land use (vacant land) was observed. No any other development happened within this area. No hazardous waste concerns are observed in these historical aerial photos.

B. From 190th Street to 200th Street

The new proposed Variation D2 for highway 138 is located from about 0.10 mile north of Avenue R to 0.10 mile south of Avenue R. This area is currently a vacant land and covered with bushes and cactuses. Comparing the aerial photographs Photo F02a for year of 2005, Photo F02b for year of 1974, Photo F02c for year of 1959, and Photo F02d for year of 1953 with the current aerial photograph Photo B02 in Appendix B, no change in existing land use (vacant land) was observed. No development happened within this area. No hazardous waste concerns are observed in these historical photos.

C. From 200th Street to 210th Street

The new proposed Variation D2 for highway 138 is located 0.10 mile south of Avenue R. This area is currently vacant lands or used as family residences. Comparing the aerial photographs Photo F03a for year of 2005, Photo F03b for year of 1974, Photo F03c for year of 1959, and Photo F03d for year of 1953 with the current aerial photograph Photo B03 in Appendix B, no major change for land use (vacant lands or family residences) was observed. One (1) residential house located at south-east corner the 210th Street and Avenue R. was observed and the house was built after 1975. No hazardous waste concerns are observed in these historical aerial photos.

D. From 210th Street to 220th Street

The new proposed Variation D2 for highway 138 is located from 0.10 mile south of Avenue R to Avenue R. This area is currently a vacant land and covered with bushes and cactuses. Comparing the aerial photographs Photo F04a for year of 2005, Photo F04b for year of 1974, Photo F04c for year of 1959, and Photo F04d for year of 1953 with the current aerial photograph Photo B04 in Appendix B, no major change in existing land use (vacant land) was observed except one (1) residential house located nearby the north-west corner the 210th Street and Avenue R. No development happened within this area. No hazardous waste concerns are observed in these historical aerial photos.

E. From 220th Street to 230th Street

The new proposed Variation D2 for highway 138 is located in Avenue R and move north to quarter mile south of Palmdale Blvd. which is the original proposed alternatives 2 and 3 for highway 138. This area is currently vacant lands and used as family residences. Comparing

the aerial photographs Photo F05a for year of 2005, Photo F05b for year of 1974, Photo F05c for year of 1959, and Photo F05d for year of 1953 with the current aerial photograph Photo B05 in Appendix B, no other development was observed within this area. No hazardous waste concerns are observed in these historical aerial photos.

7. OIL AND GAS WELLS

No operational oil and gas wells or facilities were observed immediately adjacent to the proposed project study limits (between 180th Street and 230th Street) during site reconnaissance. California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) provides an online mapping system (DOMS), a web-based mapping program that provides the ability to create, view and print maps of oil and gas wells via the internet. The DOMS also provides data and scanned well records from one web application. The web site of DOMS is <http://maps.conservation.ca.gov/doms/doms-app.html>.

To identify the potential presence of naturally occurring petroleum hydrocarbons, and methane (CH₄) and hydrogen sulfide (H₂S) gases within the proposed project limits, we have reviewed the DOMS maps to find out the existing or abandoned oil and gas wells for the Variation D2. The Photos G01 to G04 in Appendix G shows the DOMS maps for the proposed highway 138 project study limits. Photo G01 shows the overall oil well between 180th Street to 240th Street. Each Photo from Photo 02 to Photo 04 covers the distance of 20 Streets (or 2 miles) from 180th Street to 240th Street. Based upon these oil and gas well photos, there is only one (1) petroleum oil well which was previously present in ISA Report adjacent to the project study limits that have been plugged and abandoned. The impacted of oil well for alternatives 2 & 3 versus Variation D2 is similar. The information of the above-mentioned oil well is address in below.

Oil Well (API No. 03705922; Description: "Ralph Arnold")

The Oil Well was located between 220th Street and 240th Street, and between Ave. P and Ave. R. The Well was close to 230th Street and Ave. Q Intersection as can be seen in Photo G04. Based upon the "Well Record Detail Page" in Appendix F, the Well was operated by the Walter Siravo and the oil well status was plugged and abandoned in 1962.

8. ENVIRONMENTAL DATABASE REVIEW

The purpose of the environmental database review is to obtain and review public records to identify activities along the project or surrounding properties that could indicate significant potential for recognized environmental conditions impacting the project. For this S-ISA study, the database information search between 180th Street and 230th Street was conducted previously when prepared the ISA report. The Department has obtained and reviewed an environmental

database report, *Environmental FirstSearch™ Report*, conducted by FirstSearch Technology Corporation dated January 27, 2011, for the project study limits. The scope of the environmental database search for project study limits is based upon aerial photograph including the proposed new highway 138 location provided to our Office of Environmental Design, Hazardous Waste North Branch.

The *Environmental FirstSearch™ Report* is environmental records search including federal, state, and local files for parcels located within the vicinity of the project. A linear search with 1-mile width along the centerline of the proposed new State Route 138 (SR-138) within the project study limits were conducted, however, the search width of 1/4-mile from the centerline is the main focus. For Variation D2, the significant and potential impacts to the project study area(s) for search widths of 0-1/8-mile and 1/8-1/4-mile are presented, compared, and discussed below. The Environmental FirstSearch™ Report is attached with this S-ISA report in Appendix H.

Comparing the environmental database for alternatives 2 & 3 with new proposed alternative 3 (Variation D2), there is no additional records pop-up due to the change of the scope of work from alternatives 2 & 3 to Variation D2.

9. FINDINGS/ CONCLUSIONS

Based upon the results of historical research, review of available documents and environmental database, and site reconnaissance, the potential of hazardous waste concerns for Variation D2 that may impact the project are summarized below:

- A. The Schnaidt Fireworks Site located at 17500 E. Palmdale Blvd., Llano, CA 93544 is listed in the CERCLIS's database. The Schnaidt Fireworks Site is a firework manufacturing and wholesale facility. This parcel is listed as a parcel affected by design alternatives, and therefore, considered significant environmental concerns for the project.
- B. One (1) single family residence, Ennals Ives, located at 15366 E. Palmdale Blvd., Palmdale, CA 93591 is listed as the State/Tribal UST/AST site. Since this parcel is listed as a parcel affected by design alternatives, there is the potential of hazardous waste concerns associated with acquisition of this parcel.
- C. One (1) single family residence located at 16035 E. Avenue R, Palmdale CA 93591 was observed to run a nursery type of business during our site reconnaissance. Since this parcel is listed as a parcel affected by design alternatives, this parcel is considered to have the potential of hazardous waste concerns for this project.
- D. Two (2) single family residences located at 21216 E. Avenue R, Lancaster, CA 93591 (included due to Variation D2) and 38227 E. 230th Street, Palmdale, CA 93591 show junk

cars, machines & equipments stored in the backyard and surrounding areas. These two (2) parcels are listed as parcels affected by design alternatives, therefore, there are hazardous waste concerns associated with acquisition of these parcels

- E. The following two parcels are removed because of Variation D2. A commercial/industrial building located at 18846 E. Palmdale Blvd., Palmdale, CA 93591 shows the business of cars and equipments. Junk cars and equipments are stored in the backyard. Therefore, there is hazardous waste concerns associated with acquisition of this parcel. This parcel was listed as a parcel affected in Alternatives 2 &3 by design alternatives. One single family residences located at 18842 E. Palmdale Blvd., Palmdale, CA 93591 shows junk cars, machines & equipments stored in the backyard and surrounding areas. There is hazardous waste concerns associated with acquisition of this parcel. This parcel was also listed as parcel affected by design alternatives 2 & 3.
- F. The Asbestos Containing Materials (ACMs) and Lead-Based Paint (LBP) may be present in any buildings built before 1980. A survey for ACMS and LBP shall be performed before demolition of these old buildings.
- G. Aerially Deposited Lead (ADL) is not anticipated to be a concern for the proposed highway 138 location because the alignment is not along the existing street or highway.
- H. Two (2) oil wells are discovered within the project study limits. However, these two (2) oil wells were plugged and abandoned.
- I. Groundwater depth varies within the project limits. The lowest groundwater level is found between 130th Street and 160th Street. Groundwater is anticipated to be encountered if bridge columns are installed in Big Rock Wash area between 140th Street and 150th Street.

10. RECOMMENDATION FOR FUTURE WORK

Based on the findings of this ISA report, the following recommendations are suggested:

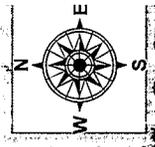
- A. A detail Phase II hazardous waste site investigation is recommended before acquiring these properties.
 - (1) A State CELCLIS site, the Schnaidt Fireworks, located at 17500 E. Palmdale Blvd., Llano, CA 93544.
 - (2) A State/Tribal UST/AST site located at 15366 E. Palmdale Blvd., Palmdale, CA 93591.
 - (3) A nursery business located at 16035 E. Avenue R, Palmdale CA 93591.
 - (4) Single family residence located at 21216 E. Avenue R, Lancaster, CA 93591.
 - (5) Single family residence located at 38227 E. 230th Street, Palmdale, CA 93591.

- B. Prior to demolition of any old buildings, ACMs and LBP survey should be conducted. If ACMs and/or LBP are detected, appropriate permits must be obtained from regulatory agencies and these materials must be removed by a licensed contractor prior to demolition.
- C. Naturally occurring petroleum hydrocarbons may be encountered during bridge columns excavation. We recommend conducting tests for Total Petroleum Hydrocarbons (TPHs) for naturally occurring petroleum hydrocarbons, and hydrogen sulfide (H₂S) and methane gas (CH₄) if deep excavation and/or borings are proposed for bridge columns.



HDC Footprint October 12, 2012 update

— HDC Footprint March 22, 2012



D1 and D2 Variation Closeups for High Desert Corridor
California Department of Transportation
District 7, Los Angeles

Figure 1

Map revised by Billy Ho
 Division of Environmental Planning
 October 23, 2012
 Aerial Imagery: 2010 Bing Maps

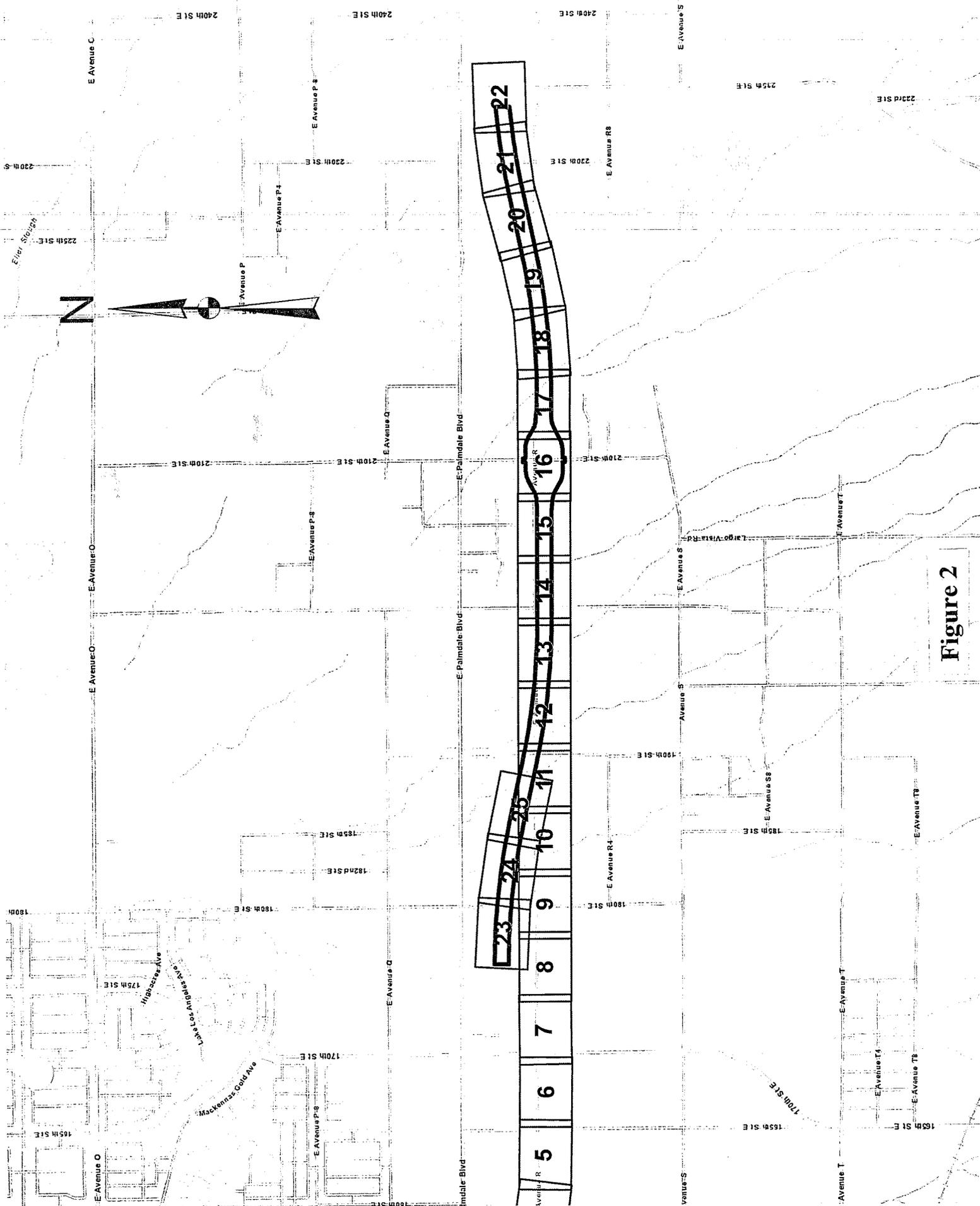
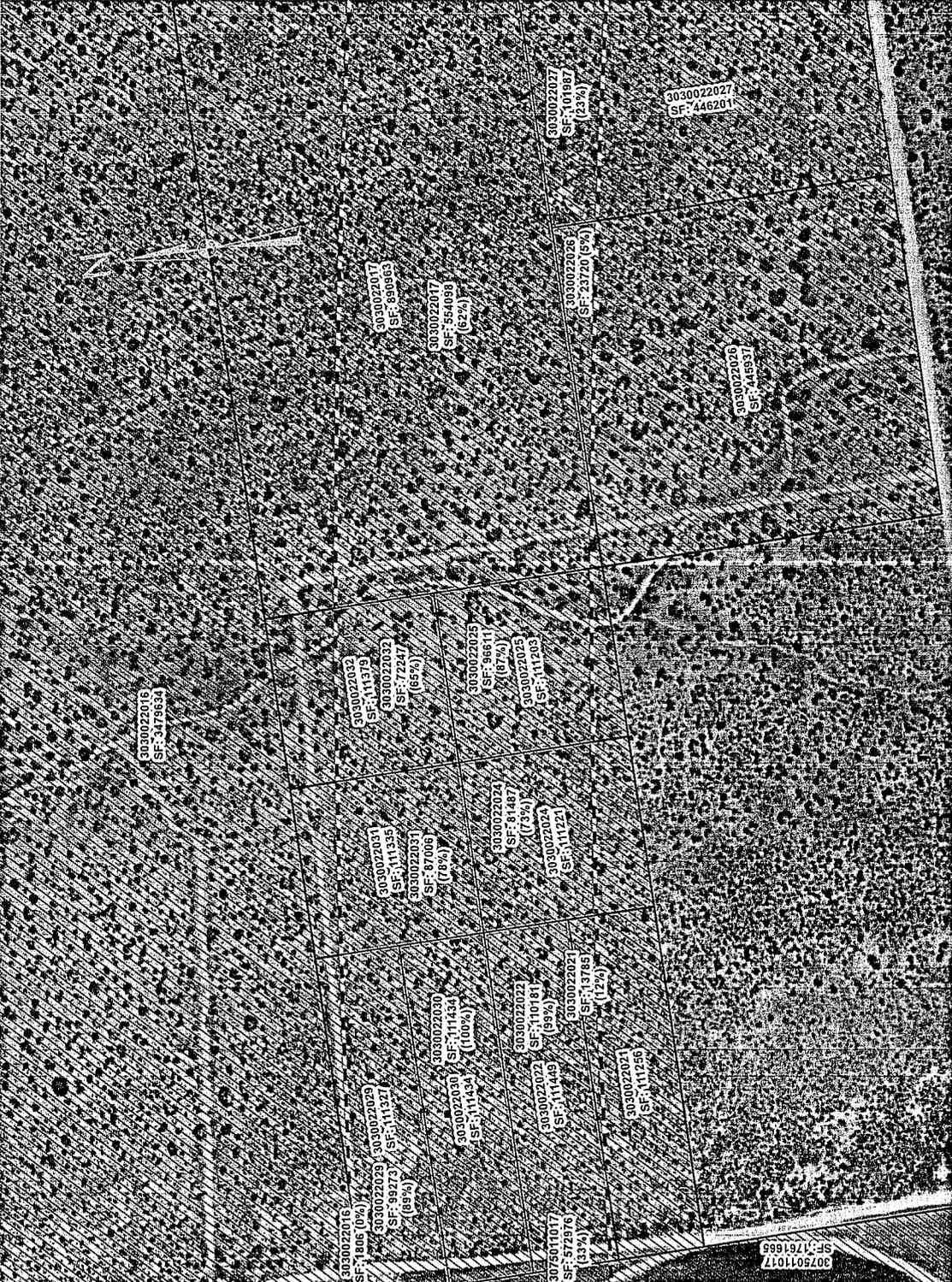


Figure 2

HDC SEGMENT 4b HSR



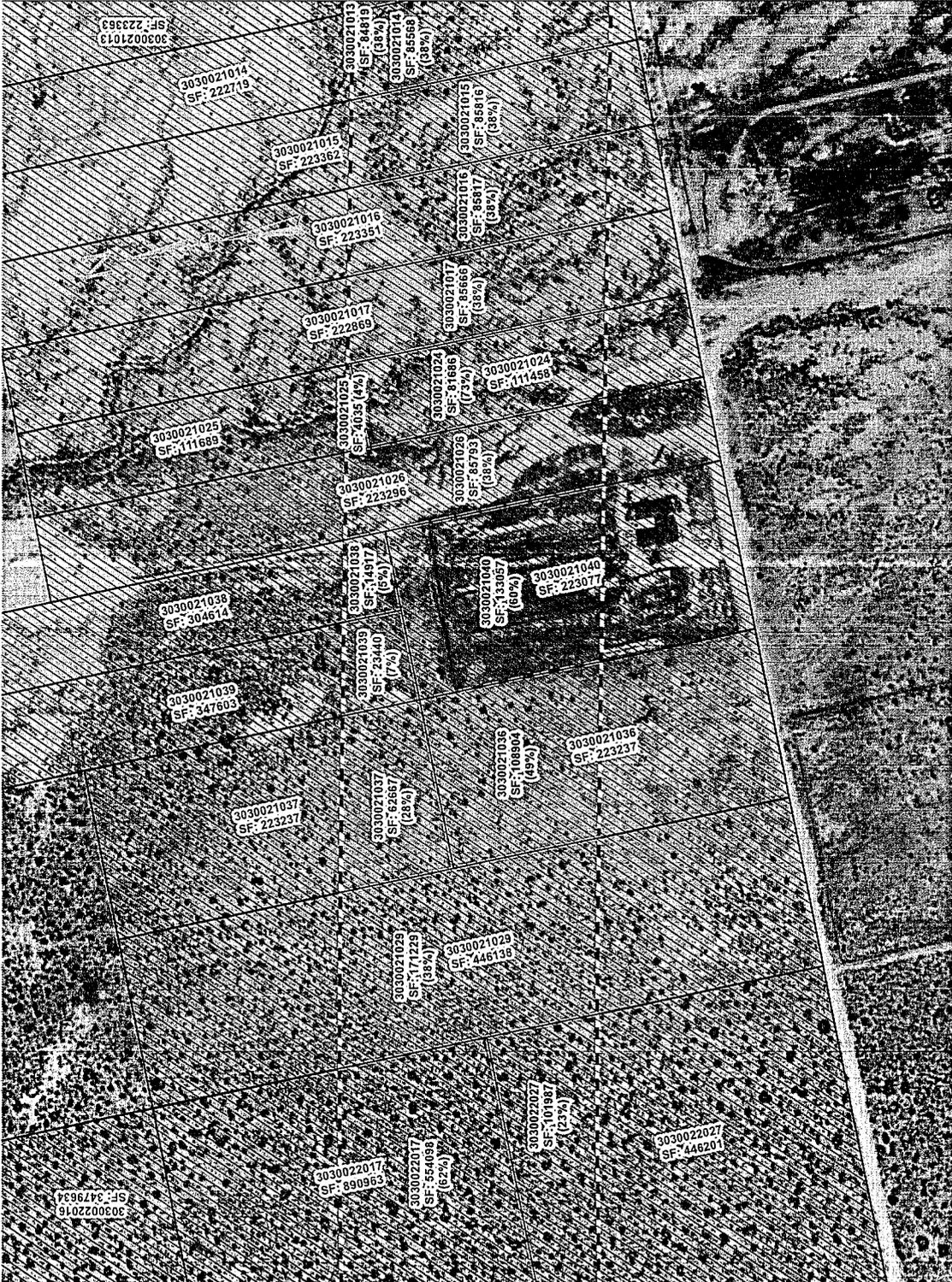
Legend

- Parcels Affected
- Parcels Take
- Proposed RW



Sheet 25
Date: 12/5/2013

HDC SEGMENT 4b HSR



Legend



Parcels Affected

Parcels Take



Proposed RW



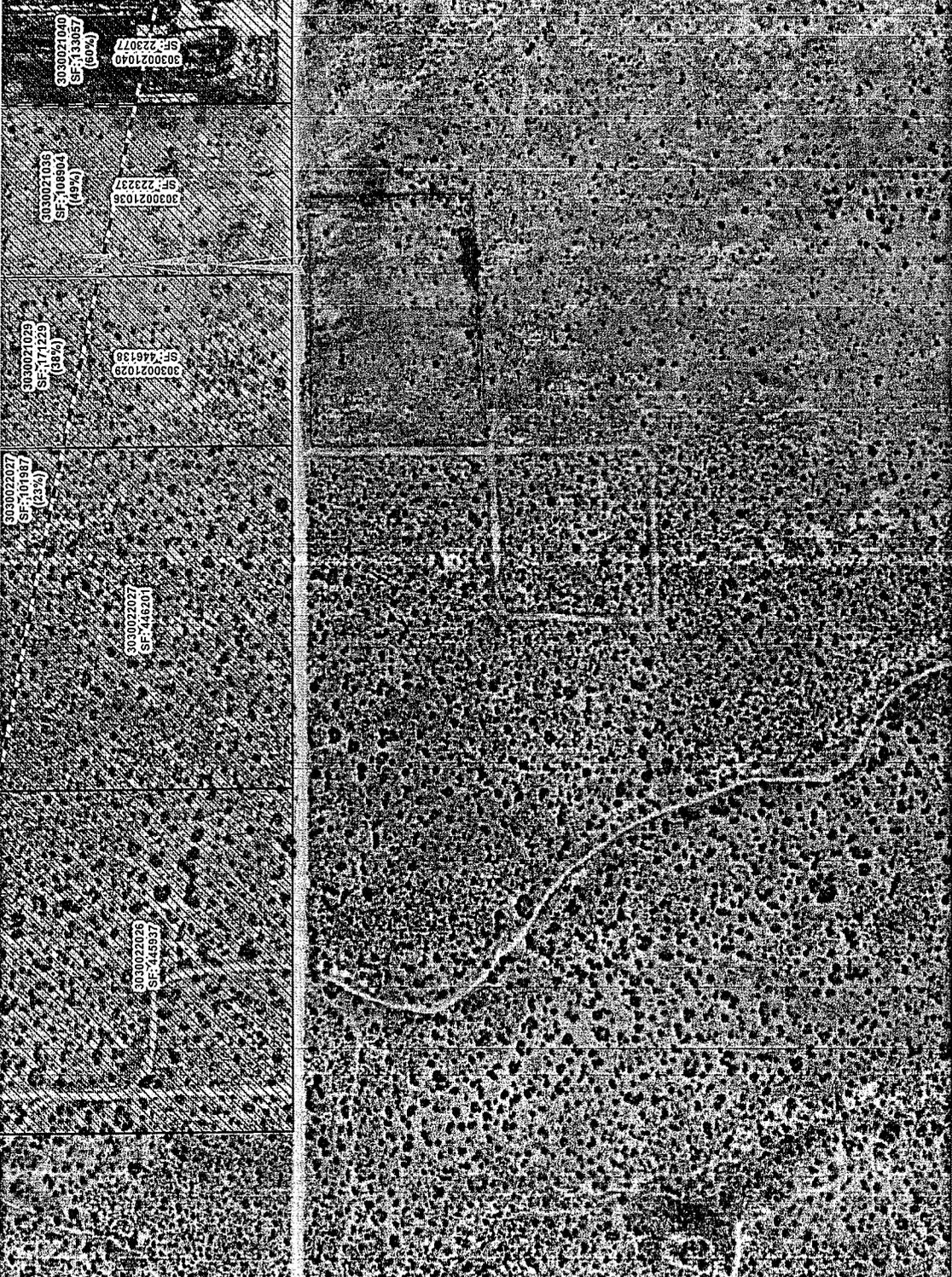
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HDC SEGMENT 4b HSR

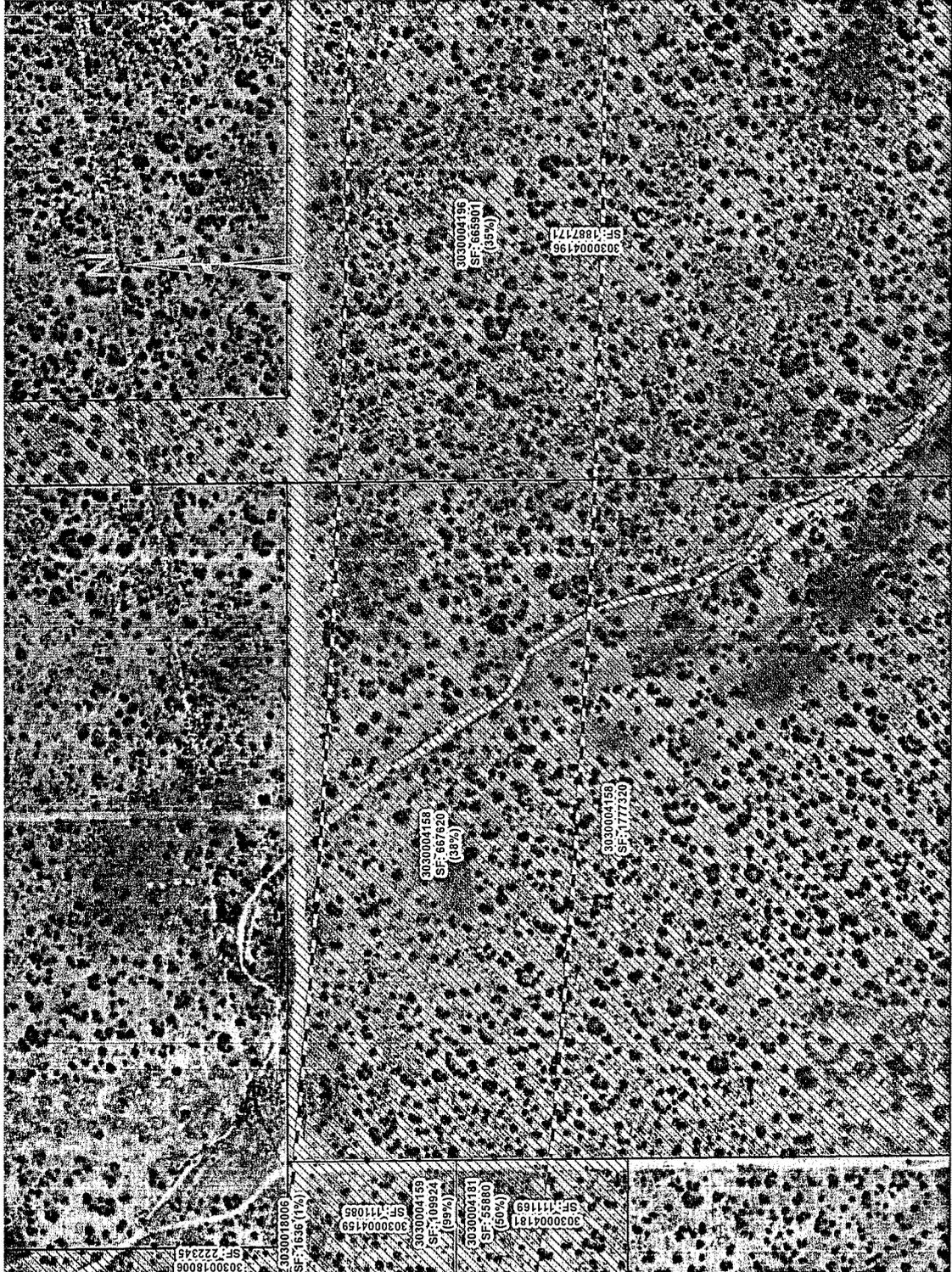
Sheet 10

Date: 12/5/2013



Sheet 13
Date: 12/5/2013

HDC SEGMENT 4b HSR





HDC SEGMENT 4b HSR

Sheet 14
Date: 12/5/2013



Legend



Parcels Affected



Parcels Take

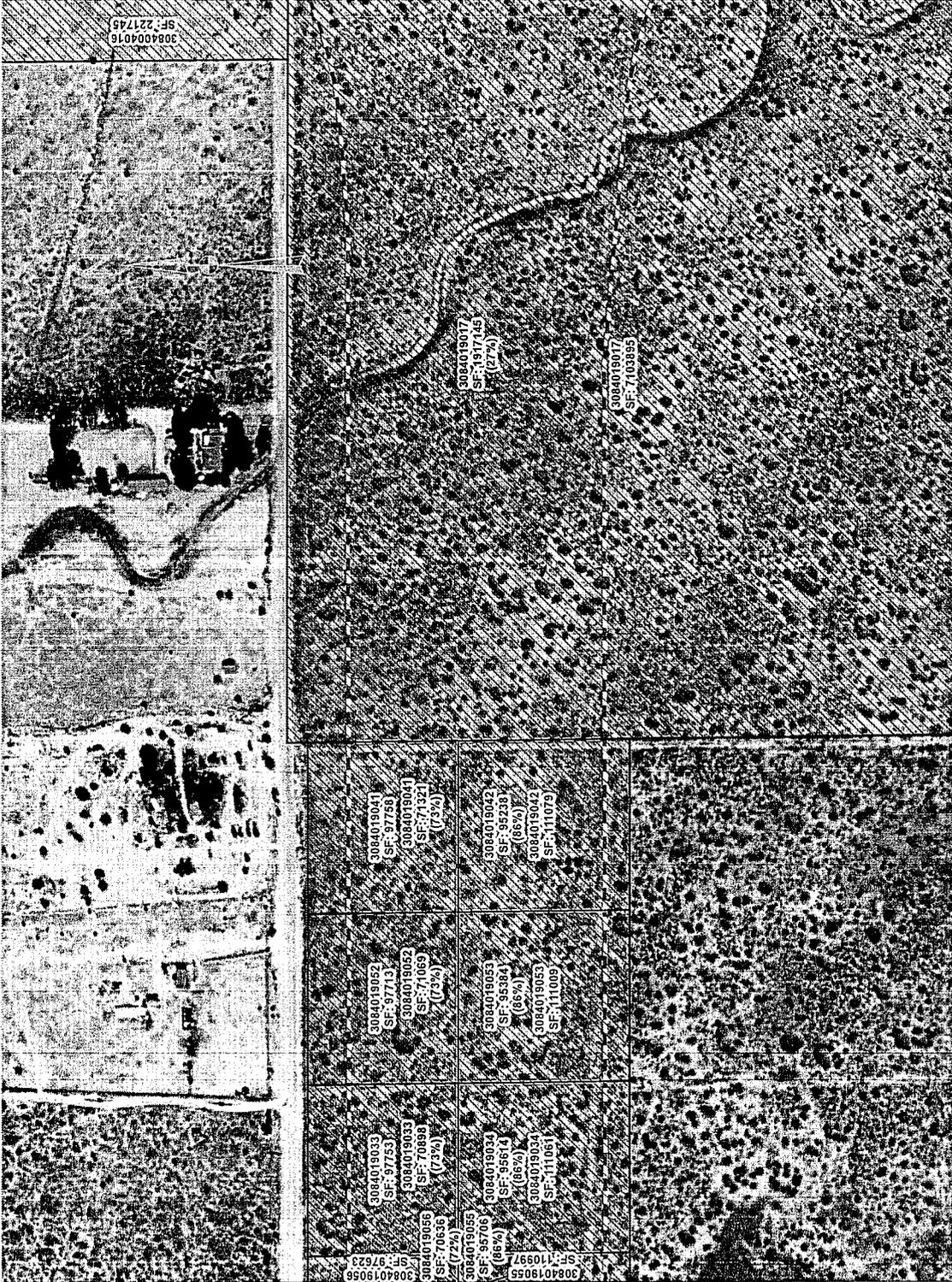
Proposed RW



Scale 1" = 200'

HDC SEGMENT 4b HSR

Sheet 15
Date: 12/5/2013



Legend



Parcels Affected

Parcels Take



Proposed RW



Scale 1" = 200'

Sheet 16
Date: 12/5/2013

HDC SEGMENT 4b HSR



Legend



Parcels Affected

Parcels Take



Proposed RW



Scale 1" = 200'

HDC SEGMENT 4b HSR

Sheet 17
Date: 12/5/2013



Legend

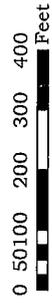


Parcels Affected



Parcels Take

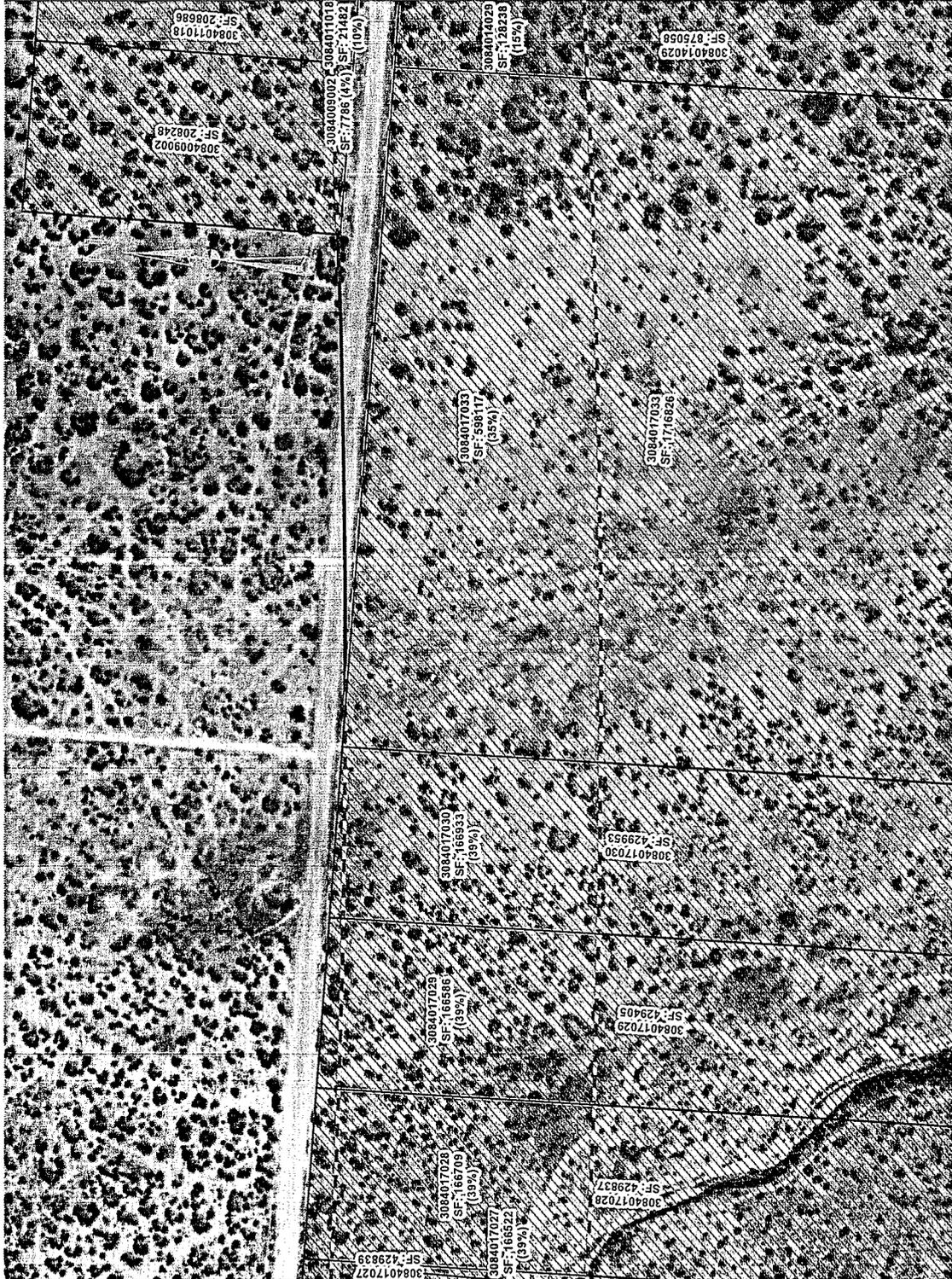
Proposed RW



Scale 1" = 200'

Sheet 18
Date: 12/5/2013

HDC SEGMENT 4b HSR



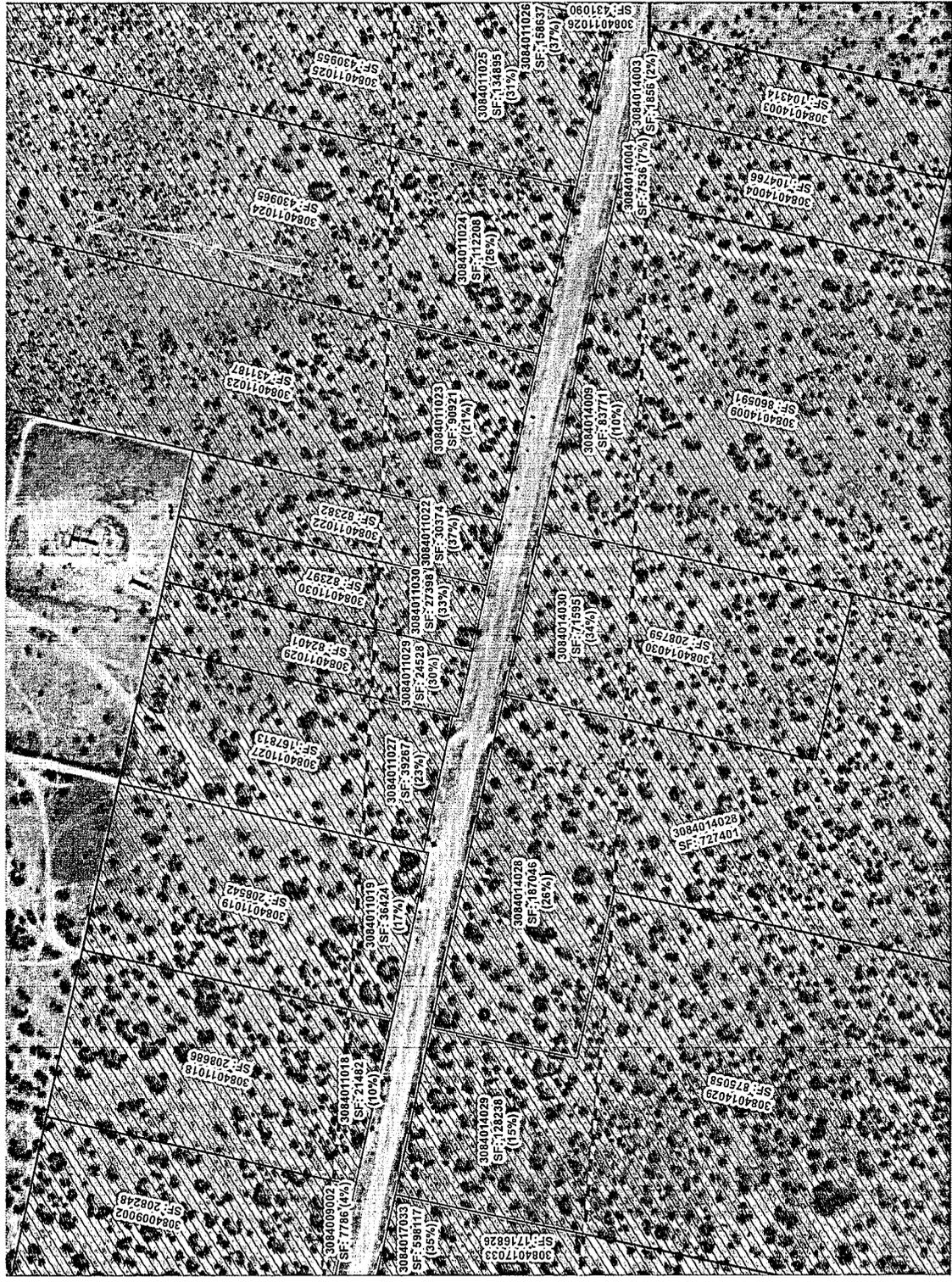
Legend

-  Parcels Affected
-  Parcels Take
-  Proposed RW



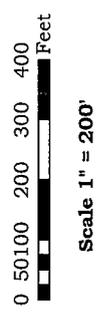
Sheet 19
Date: 12/5/2013

HDC SEGMENT 4b HSR



Legend

- Parcels Affected
- Parcels Take
- Proposed RW



HDC SEGMENT 4b HSR

Sheet 20
Date: 12/5/2013



Legend



Parcels Affected

Parcels Take



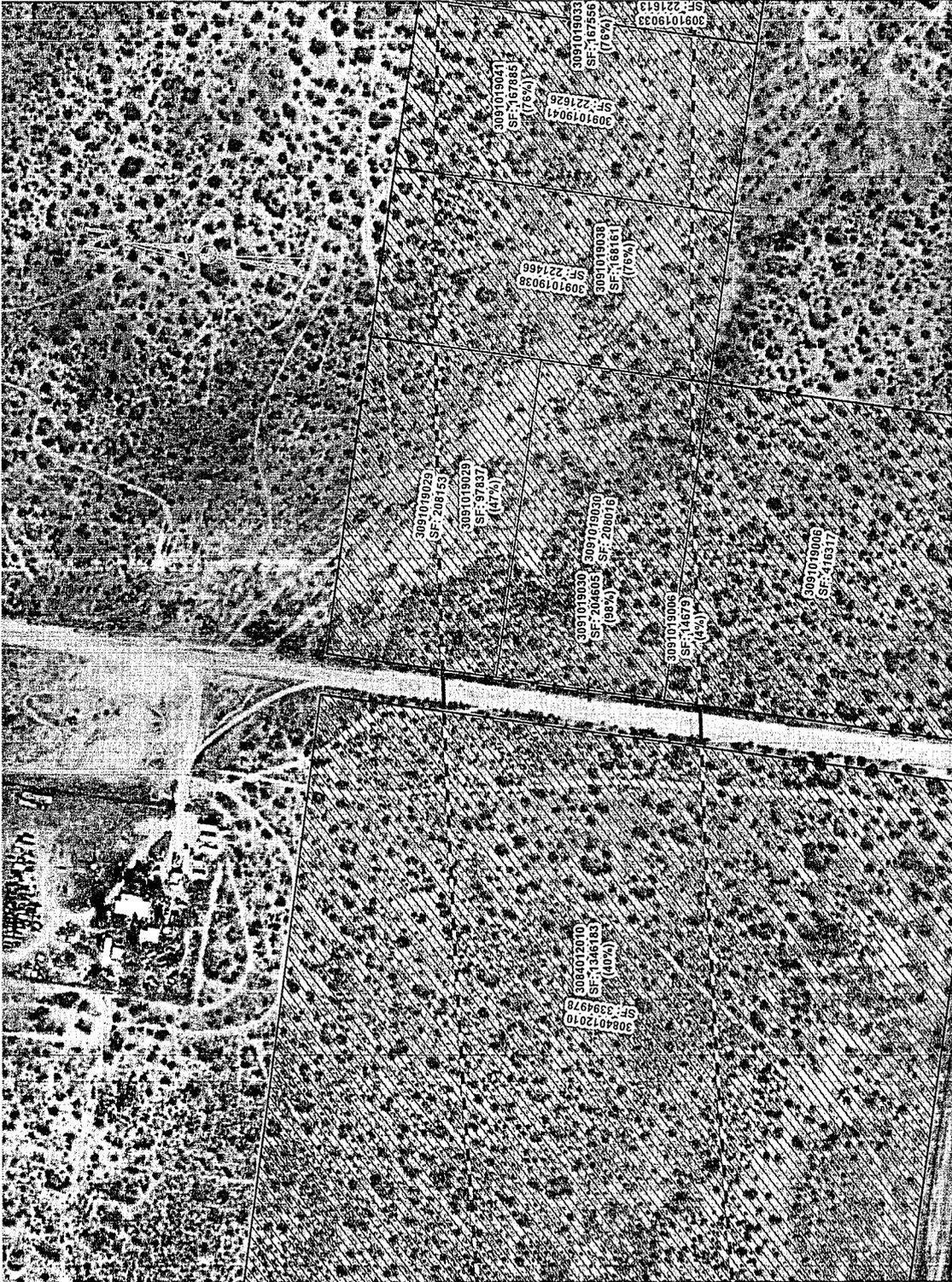
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HDC SEGMENT 4b HSR

Sheet 21
Date: 12/5/2013



Legend

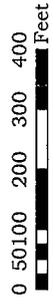


Parcels Affected



Parcels Take

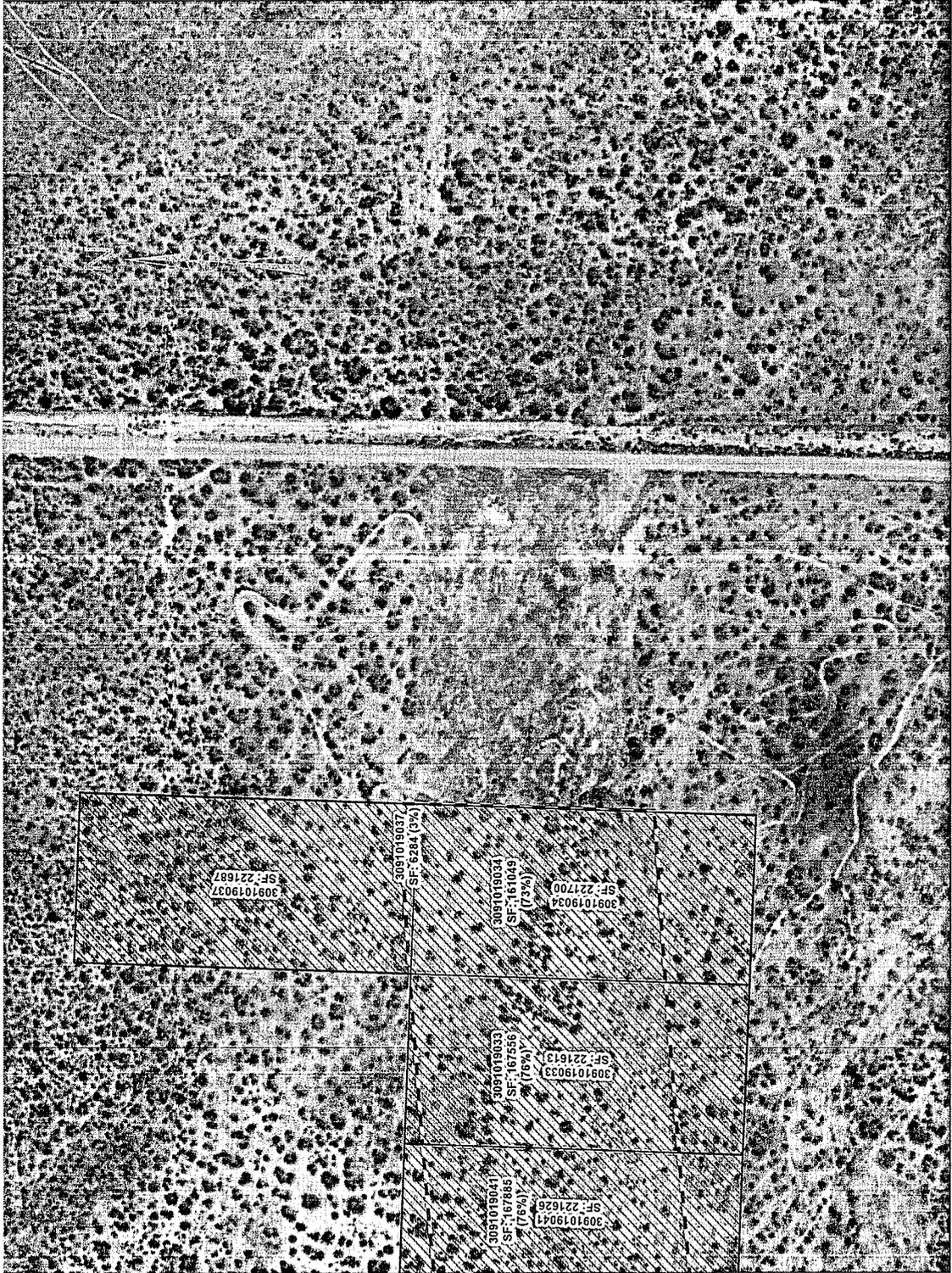
Proposed RW



Scale 1" = 200'

HDC SEGMENT 4b HSR

Sheet 22
Date: 12/5/2013



Legend



Parcels Affected



Parcels Take

Proposed RW



Scale 1" = 200'

APN	OWNER_NAME	COUNTY	CITY
3029016013	HERRERA,FILIMON AND ANGELINA	LA	LITTLEROCK
3029016014	ALEVY,ALLEN AND DEANNA TRS	LA	LITTLEROCK
3029016015	IRA SERVICES CSTDN	LA	BLACK BUTTE
3029016029	DECENA,RECTO C	LA	BLACK BUTTE
3029016030	CABRILLOS,ROMULUS AND LIZA ET AL	LA	BLACK BUTTE
3029016031	GELUZ,SALVADOR S AND	LA	BLACK BUTTE
3030001030	KIM,YOONJI AND	LA	LLANO
3030001036	ALVI,FARRUKH	LA	BLACK BUTTE
3030001037	WIGRATZ,ALBERT R	LA	BLACK BUTTE
3030001038	HENKEY,LEONARD AND MARGARET TRS	LA	BLACK BUTTE
3030001039	SALSE,CHARLES M CO TR ET AL	LA	BLACK BUTTE
3030001040	ESAKI,THOMAS T	LA	BLACK BUTTE
3030001041	YONESAWA,YAYEKO A AND	LA	BLACK BUTTE
3030001042	SCHAGER,J J	LA	BLACK BUTTE
3030001043	DONG HUYNH AND	LA	BLACK BUTTE
3030001048	RBI LLC AND	LA	BLACK BUTTE
3030001051	LAM,JESSICA	LA	BLACK BUTTE
3030001052	HULLIHEN JR,CALVERT F	LA	BLACK BUTTE
3030002095	MAJOR INVESTMENTS LLC	LA	BLACK BUTTE
3030002096	PENA,MAGDALENA CO TR	LA	BLACK BUTTE
3030002097	MORT,ETHEL L TR	LA	BLACK BUTTE
3030002098	BASS,ALVIN AND MARY A	LA	BLACK BUTTE
3030002099	GREEN,RICHARD J AND GLADYS J	LA	BLACK BUTTE
3030002100	ALEXANDER,WARNER J CO TR	LA	BLACK BUTTE
3030002101	SOUMEKH,MICHAEL AND RACHEL	LA	BLACK BUTTE
3030002112	COYCO,ALFREDO AND CARMELITA TRS	LA	BLACK BUTTE
3030004158	HWANG,MARIANA AND	LA	BLACK BUTTE
3030004159	JUSSILA,LEO A JR AND PAMELA S	LA	BLACK BUTTE
3030004160	TAVERNETTI,RICHARD R AND HELEN R	LA	BLACK BUTTE
3030004164	NALBANDIAN,STANLEY J CO TR	LA	BLACK BUTTE
3030004165	TENG,CALEB H AND LILY Y AND	LA	BLACK BUTTE
3030004180	NGO,WILLIAM C AND JENNY K	LA	BLACK BUTTE
3030004181	PORTER,PETER G AND MARGARET TRS	LA	BLACK BUTTE
3030004184	CACHOLA,EDUARDO C AND	LA	BLACK BUTTE
3030004185	KORMILKO,CLEOPATRA	LA	BLACK BUTTE
3030004186	BUTAY,LEVI B AND NATY B AND	LA	BLACK BUTTE
3030004187	MANALILI,CARLITO G CO TR	LA	BLACK BUTTE
3075007007	CHANG,MOON S AND BONG S TRS	LA	LLANO
3075011002	WANG,MICHAEL C AND CAROL J AND	LA	BLACK BUTTE
3075013008	STORSTEEN,LINDA L	LA	LLANO
3075013009	BATTLE,WILLIAM D	LA	BLACK BUTTE
3075014001	BOLTHOUSE PROPERTIES LLC	LA	BLACK BUTTE
3075014002	MARTINOV,VICTOR M CO TR	LA	BLACK BUTTE
3075014003	MARTINOV,VICTOR M CO TR	LA	BLACK BUTTE
3075014004	KATTAN,ISSA	LA	BLACK BUTTE
3075014005	WRIGHT,WILLIE A ET AL	LA	BLACK BUTTE

APN	OWNER_NAME	COUNTY	CITY
3075014006	GALEA,MORRIS	LA	BLACK BUTTE VA
3075014007	RADFORD,OTIS JR AND LULA M TRS	LA	BLACK BUTTE
3075014008	RADFORD,OTIS JR AND LULA M TRS	LA	BLACK BUTTE
3075016001	BOLTHOUSE PROPERTIES LLC	LA	LLANO
3075016002	BOLTHOUSE PROPERTIES LLC	LA	LLANO
3075016004	BOLTHOUSE PROPERTIES LLC	LA	BLACK BUTTE
3075019001	BOLTHOUSE PROPERTIES LLC	LA	BLACK BUTTE
3075019002	BOLTHOUSE PROPERTIES LLC	LA	BLACK BUTTE
3075019003	BUI,VIVIAN G	LA	BLACK BUTTE
3075019005	BOLTHOUSE PROPERTIES LLC	LA	BLACK BUTTE
3079018006	FUJINAMI,ITSUNO TR	LA	SUN VILLAGE
3084004018	HOLLEN,DANIEL J TR	LA	LANSTER
3084004019	HOLLEN,DANIEL J AND PATRICIA	LA	BLACK BUTTE
3084004023	SHUTE,SHARIE TR	LA	BLACK BUTTE
3084007025	PATTERSON,PATRICIA D ET AL	LA	BLACK BUTTE
3084007026	MENOR,LEILANI A ET AL	LA	BLACK BUTTE
3084007027	SUJISHI,JOHN M AND	LA	BLACK BUTTE
3084009002	JACOBSON,JOEL N AND BETSY L	LA	BLACK BUTTE
3084011018	SEIFRIED,ALDEN E III	LA	BLACK BUTTE
3084011019	LIN,YA TSENG AND CHRISTINA Y TRS	LA	BLACK BUTTE
3084011022	MALONEY,CHARLOTTE D TR	LA	BLACK BUTTE
3084011023	GOREY,KATHLEEN TR	LA	BLACK BUTTE
3084011024	SHUHO,K K	LA	BLACK BUTTE
3084011025	LUCENA,TEODORO AND MAXIMA TRS	LA	BLACK BUTTE
3084011026	RUELAS,PRISCA	LA	BLACK BUTTE
3084011027	MEDNICK,BEN AND EDITH	LA	BLACK BUTTE
3084011029	CHAM,MICHELLE	LA	BLACK BUTTE
3084011030	DOUSTAN,MEHRDAD D	LA	BLACK BUTTE
3084014009	CHU,KATHERINE K TR	LA	BLACK BUTTE
3084014028	CRABB,GLEN E TR	LA	BLACK BUTTE
3084014029	NGUYEN,SCOTT	LA	BLACK BUTTE
3084014030	SPERRY,CLYDE D CO TR	LA	BLACK BUTTE
3084017022	GREMER,JOHN A AND LILLIAN E TRS	LA	BLACK BUTTE
3084017024	HERBERT,PAUL D	LA	LANSTER
3084017025	BROWNE,KENNETH R TR	LA	BLACK BUTTE
3084017026	RAMIREZ,SAMUEL J TR	LA	BLACK BUTTE
3084017027	CURAMENG,RAMON AND ZENAIDA TRS	LA	BLACK BUTTE
3084017028	COOLEY,GEORGE JR AND BARBARA TRS	LA	BLACK BUTTE
3084017029	JACKSON,KRIK I AND	LA	BLACK BUTTE
3084017030	CUARESMA,FLOR B AND GLORIA S TRS	LA	BLACK BUTTE
3084017033	PICOU,GENE AND MARGARET TRS	LA	BLACK BUTTE
3084017034	JACKSON,ROBIN R TR	LA	BLACK BUTTE
3084017035	ANDREWS,ROGER AND SHARON TRS	LA	BLACK BUTTE
3084019014	MAYFIELD,LARRY AND MARY L	LA	BLACK BUTTE
3084019015	NGUYEN,NICHOLAS DECD EST OF AND	LA	BLACK BUTTE
3084019016	FRAGOSO,MOISES CO TR	LA	BLACK BUTTE

APN	OWNER_NAME	COUNTY	CITY
3084019017	LIN, MICHAEL AND	LA	BLACK BUTTE
3084019033	MENDEZ, JOSE S AND CARMEN	LA	BLACK BUTTE
3084019034	CARRILLO, GUADALUPE L	LA	BLACK BUTTE
3084019041	RODRIGUEZ, ALCIDES AND NEIDA	LA	BLACK BUTTE
3084019042	RODRIGUEZ, ALCIDES AND NEIDA	LA	BLACK BUTTE
3084019052	LOPEZ, RAMON O AND ELBA E	LA	BLACK BUTTE
3084019053	LOPEZ, PABLO JR	LA	BLACK BUTTE
3084019055	ALCANTAR, VICENTE AND ANTONIA D	LA	BLACK BUTTE
3084019056	MISCH, LIN H	LA	BLACK BUTTE

APPENDIX A

List of Parcels Affected by Design Alternatives and Aerial Photographs showing
Proposed Right of Way and Affected Parcels Between 180th Street and 230th Street

APN	OWNER NAME	COUNTY	CITY	REMARK & LOCAL ADDRESS
3029016013	HERRERA, FILIMON AND ANGELINA	LA	LITTLEROCK	Vacant Land (150th St. - 160th St.)
3029016014	ALEVY, ALLEN AND DEANNA TRS	LA	LITTLEROCK	Vacant Land (150th St. - 160th St.)
3029016015	IRA SERVICES CSTDN	LA	BLACK BUTTE	Vacant Land (150th St. - 160th St.)
3029016029	DECENA, RECTO C	LA	BLACK BUTTE	Vacant Land (150th St. - 160th St.)
3029016030	CABRILLOS, ROMULUS AND LIZA ET AL	LA	BLACK BUTTE	Vacant Land (150th St. - 160th St.)
3029016031	GELUZ, SALVADOR S AND	LA	BLACK BUTTE	Vacant Land (150th St. - 160th St.)
3030001030	KIM, YOONJI AND	LA	LLANO	Vacant Land (180th St. - 190th St.)
3030001036	ALVI, FARRUKH	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030001037	WIGRATZ, ALBERT R	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030001038	HENKEY, LEONARD AND MARGARET TRS	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030001039	SALSE, CHARLES M CO TR ET AL	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030001040	ESAKI, THOMAS T	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030001041	YONESAWA, YAYEKO A AND	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030001042	SCHAGER, J J	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030001043	DONG HUYNH AND	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030001048	RB LLC AND	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030001051	LAM, JESSICA	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030001052	HULLJHEN JR, CALVERT F	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030002095	MAJOR INVESTMENTS LLC	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030002096	PENA, MAGDALENA CO TR	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030002097	MORT, ETHEL L TR	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030002098	BASS, ALVIN AND MARY A	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030002099	GREEN, RICHARD J AND GLADYS J	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030002100	ALEXANDER, WARNER J CO TR	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030002101	SOUMEKH, MICHAEL AND RACHEL	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030002112	COYCO, ALFREDO AND CARMELITA TRS	LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030004158	HWANG, MARIANA AND	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)
3030004159	JUSSILA, LEO A JR AND PAMELA S	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)
3030004160	TAVERNETT, RICHARD R AND HELEN R	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)
3030004164	NALBANDIAN, STANLEY J CO TR	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)
3030004165	TENG, CALEB H AND LILY Y AND	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)
3030004180	NGO, WILLIAM C AND JENNY K	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)
3030004181	PORTER, PETER G AND MARGARET TRS	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)
3030004184	CACHOLA, EDUARDO C AND	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)
3030004185	KORMILKO, CLEOPATRA	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)

APN	OWNER NAME	COUNTY	CITY	REMARK & LOCAL ADDRESS
3030004186	BUTAY,LEVI B AND NATY B AND	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)
3030004187	MANALIL,CARLITO G CO TR	LA	BLACK BUTTE	Vacant Land (190th St. - 200th St.)
3075007007	CHANG,MOON S AND BONG S TRS	LA	LLANO	16529 E. Avenue R, Llano, CA 93544
3075011002	WANG,MICHAEL C AND CAROL J AND	LA	BLACK BUTTE	Vacant Land (170th St. - 180th St.)
3075013008	STORSTEEN,LINDA L	LA	LLANO	17171 E. Avenue R, Llano, CA 93591
3075013009	BATTLE,WILLIAM D	LA	BLACK BUTTE	Vacant Land (170th St. - 180th St.)
3075014001	BOLTHOUSE PROPERTIES LLC	LA	BLACK BUTTE	Vacant Land (170th St. - 180th St.)
3075014002	MARTINOV,VICTOR M CO TR	LA	BLACK BUTTE	Vacant Land (170th St. - 180th St.)
3075014003	MARTINOV,VICTOR M CO TR	LA	BLACK BUTTE	Vacant Land (170th St. - 180th St.)
3075014004	KATTAN,ISSA	LA	BLACK BUTTE	Vacant Land (170th St. - 180th St.)
3075014005	WRIGHT,WILLIE A ET AL	LA	BLACK BUTTE	Vacant Land (170th St. - 180th St.)
3075014006	GALEA,MORRIS	LA	BLACK BUTTE VA	Vacant Land (170th St. - 180th St.)
3075014007	RADFORD,OTIS JR AND LULA M TRS	LA	BLACK BUTTE	Vacant Land (170th St. - 180th St.)
3075014008	RADFORD,OTIS JR AND LULA M TRS	LA	BLACK BUTTE	Vacant Land (170th St. - 180th St.)
3075016001	BOLTHOUSE PROPERTIES LLC	LA	LLANO	Vacant Land (160th St. - 170th St.)
3075016002	BOLTHOUSE PROPERTIES LLC	LA	LLANO	37802 165th St. E., Llano, CA 93544
3075016004	BOLTHOUSE PROPERTIES LLC	LA	BLACK BUTTE	Vacant Land (160th St. - 170th St.)
3075019001	BOLTHOUSE PROPERTIES LLC	LA	BLACK BUTTE	Vacant Land (150th St. - 160th St.)
3075019002	BOLTHOUSE PROPERTIES LLC	LA	BLACK BUTTE	Vacant Land (150th St. - 160th St.)
3075019003	BUI,VIVIAN G	LA	BLACK BUTTE	Vacant Land (150th St. - 160th St.)
3075019005	BOLTHOUSE PROPERTIES LLC	LA	BLACK BUTTE	Vacant Land (150th St. - 160th St.)
3079018006	FUJINAMI,ITSUNO TR	LA	SUN VILLAGE	Vacant Land (110th St. - 120th St.)
3084004018	HOLLEN,DANIEL J TR	LA	LANCASTER	20847 E. Ave. R, Lancaster, CA 93591
3084004019	HOLLEN,DANIEL J AND PATRICIA	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084004023	SHUTE,SHARJE TR	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084007025	PATTERSON,PATRICIA D ET AL	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084007026	MENOR,LEILANI A ET AL	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084007027	SUJISHI,JOHN M AND	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084009002	JACOBSON,JOEL N AND BETSY L	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084011018	SEFRIED,ALDEN E III	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084011019	LIN,YA TSENG AND CHRISTINA Y TRS	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084011022	MALONEY,CHARLOTTE D TR	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084011023	GOREY,KATHLEEN TR	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084011024	SHUHO,K K	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084011025	LUCENA,TEODORO AND MAXIMA TRS	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)

APN	OWNER NAME	COUNTY	CITY	REMARK & LOCAL ADDRESS
3084011026	RUELAS,PRISCA	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084011027	MEDNICK,BEN AND EDITH	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084011029	CHAM,MICHELE	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084011030	DOUSTAN,MEHRDAD D	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084014009	CHU,KATHERINE K TR	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084014028	CRABB,GLEN E TR	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084014029	NGUYEN,SCOTT	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084014030	SPERRY,CLYDE D CO TR	LA	BLACK BUTTE	Vacant Land (220th St. - 230th St.)
3084017022	GREMER,JOHN A AND LILLIAN E TRS	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084017024	HERBERT,PAUL D	LA	LANCASTER	21216 E. Ave. R, Lancaster, CA 93591
3084017025	BROWNE,KENNETH R TR	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084017026	RAMIREZ,SAMUEL J TR	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084017027	CURAMENG, RAMON AND ZENaida TRS	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084017028	COOLEY,GEORGE JR AND BARBARA TRS	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084017029	JACKSON,KRIK I AND	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084017030	CUARESMA,FLOR B AND GLORIA S TRS	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084017033	PICOU,GENE AND MARGARET TRS	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084017034	JACKSON,ROBIN R TR	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084017035	ANDREWS,ROGER AND SHARON TRS	LA	BLACK BUTTE	Vacant Land (210th St. - 220th St.)
3084019014	MAYFIELD,LARRY AND MARY L	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019015	NGUYEN,NICHOLAS DECD EST OF AND	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019016	FRAGOSO,MOISES CO TR	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019017	LIN,MICHAEL AND	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019033	MENDEZ,JOSE S AND CARMEN	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019034	CARRILLO,GUADALUPE L	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019041	RODRIGUEZ,ALCIDES AND NEIDA	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019042	RODRIGUEZ,ALCIDES AND NEIDA	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019052	LOPEZ, RAMON O AND ELBA E	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019053	LOPEZ,PABLO JR	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019055	ALCANTAR,VICENTE AND ANTONIA D	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
3084019056	MISCH,LIN HI	LA	BLACK BUTTE	Vacant Land (200th St. - 210th St.)
Variation D2				
3030021029		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021037		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021026		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)

APN	OWNER NAME	COUNTY	CITY	REMARK & LOCAL ADDRESS
3030021025		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021017		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021016		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021015		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021014		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021013		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021900		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021021		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021023		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030021010		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)
3030018001		LA	BLACK BUTTE	Vacant Land (180th St. - 190th St.)

Note: Red color indicates the impacted parcels in Alternative 3 (Variation D) are removed from Variation D2.

APPENDIX B

Aerial Photographs (Google Maps) within Project Study Limits

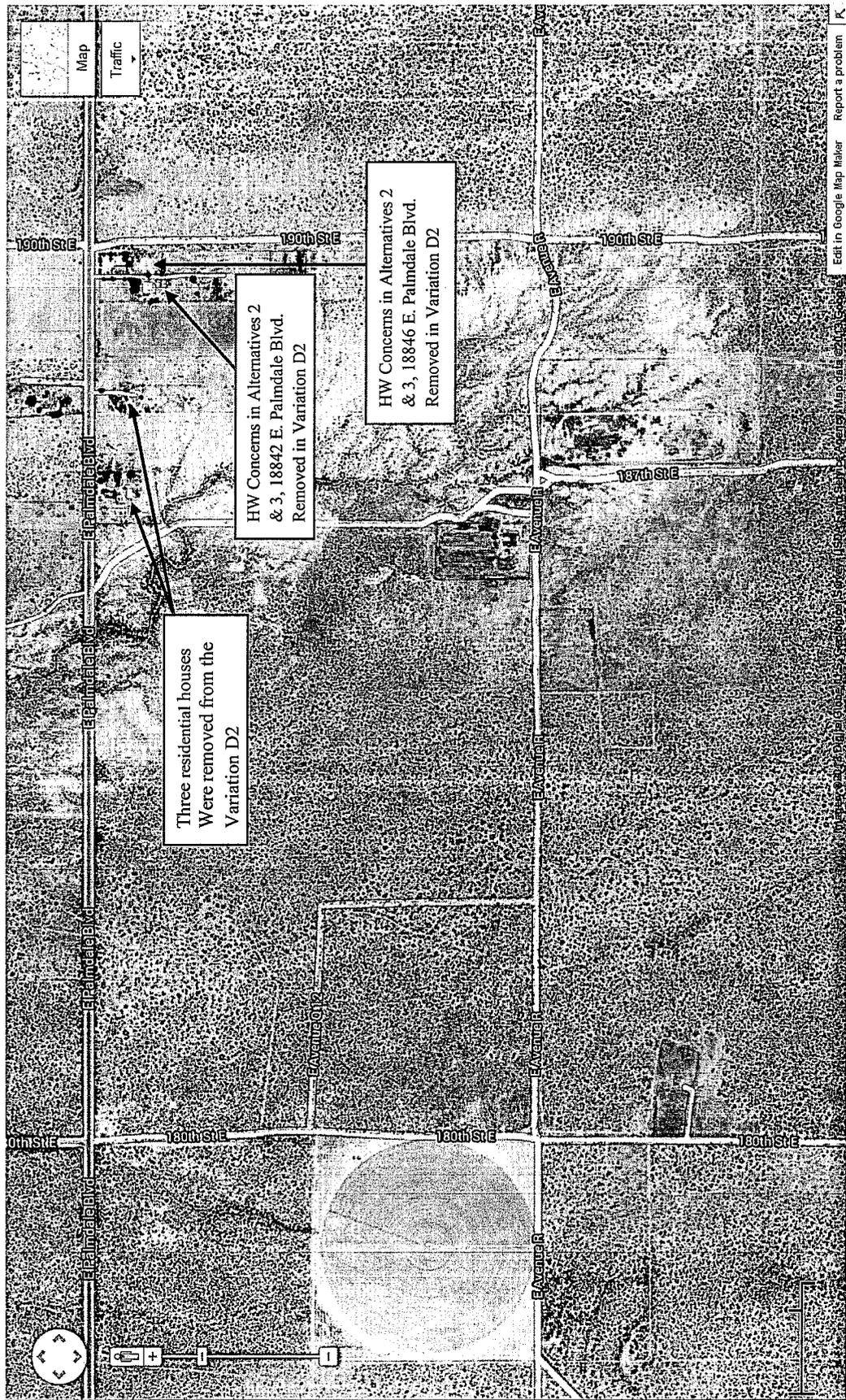


Photo B01. Aerial photo is between 180th Street and 190th Street. The alternatives 2 and 3 of the highway 138 within this area are located between Palmdale Blvd. and Avenue R. The proposed Variation D2 swings south from 0.19 mile (or 1,000 feet) east of the 180th Street to about 0.17 mile (or 900 feet) south of the originally proposed alternatives 2 and 3 which are about 0.05 mile (or 250 feet) north of Avenue R.

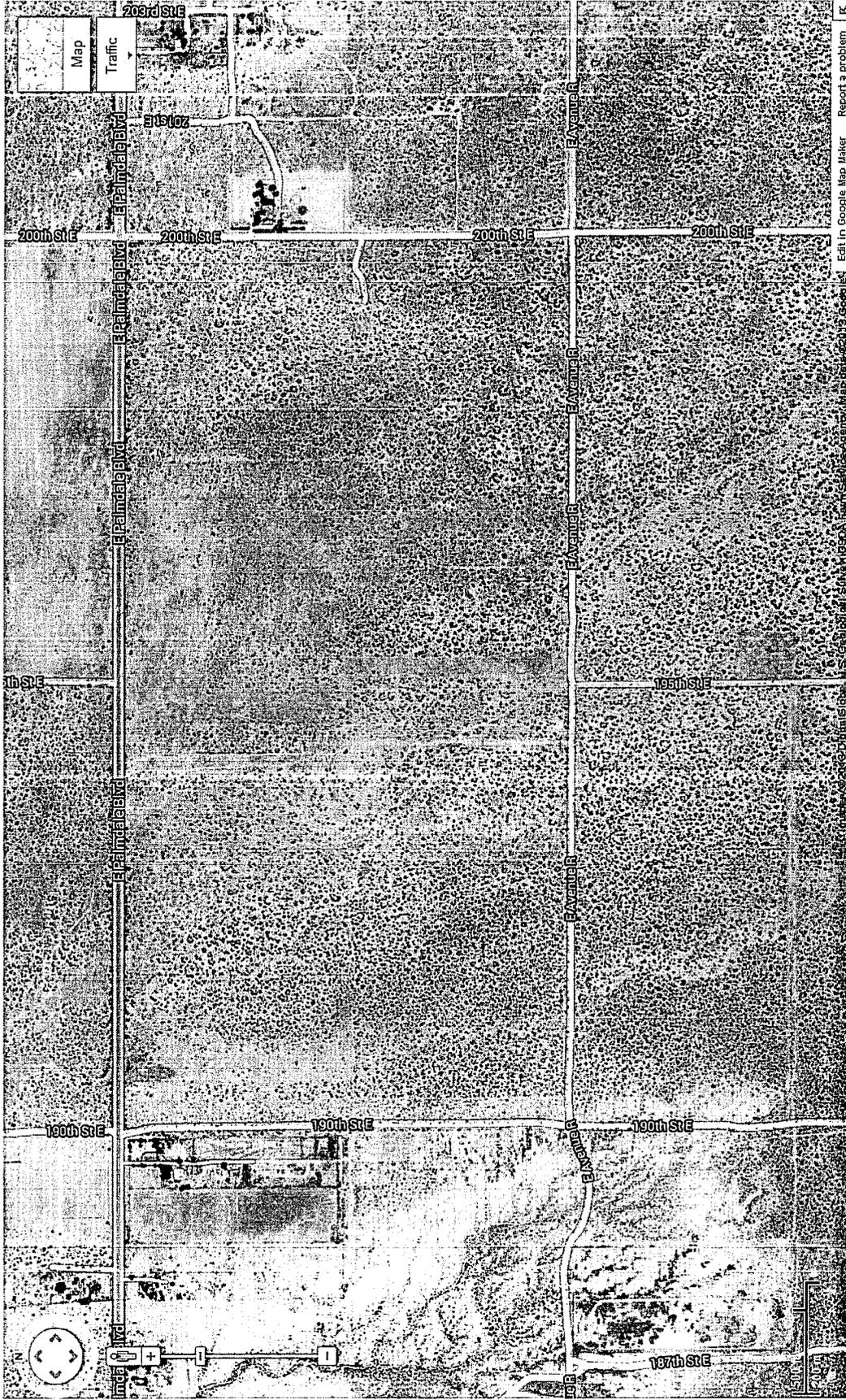


Photo B02. Aerial photo is between 190th Street and 200th Street. The alternatives 2 and 3 of the highway 138 within this area are located between Palmdale Blvd. and Avenue R. The proposed Variation D2 in 190th Street is located from 0.17 mile (or 900 feet) south of the proposed alternatives 2 and 3 and continuously swing south to about 0.30 mile (or 1,600 feet) of the originally proposed alternatives 2 and 3 which are about 0.07 mile (or 350 feet) south of Avenue R. No residential houses were observed.

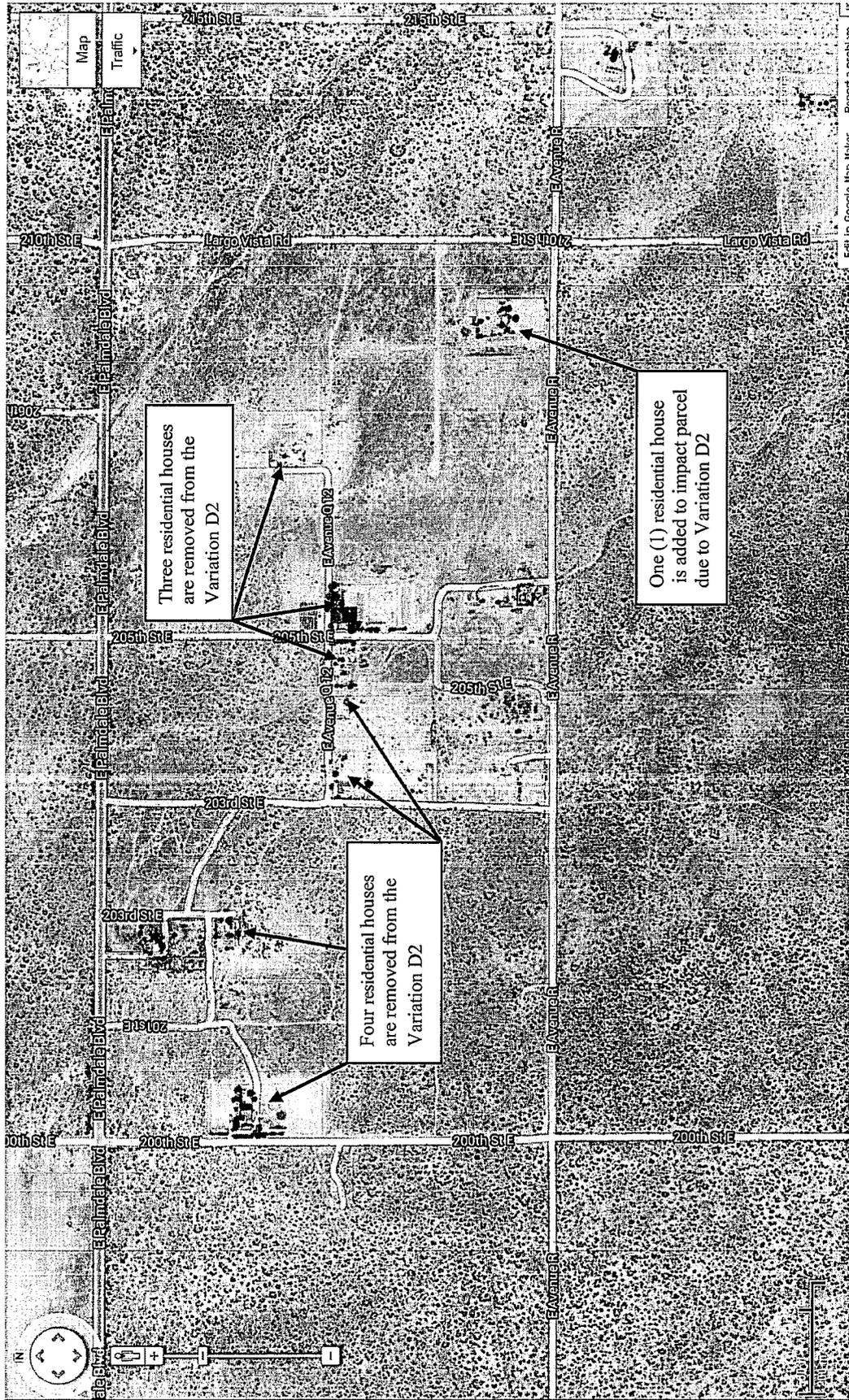


Photo B03. Aerial photo is between 200th Street and 210th Street. The alternatives 2 and 3 of the highway 138 within this area are located between Palmdale Blvd. and Avenue R. The proposed Variation D2 in 200th Street is located about 0.30 mile (or 1,600 feet) south of the proposed alternatives 2 and 3 and continues extending to 210th Street.

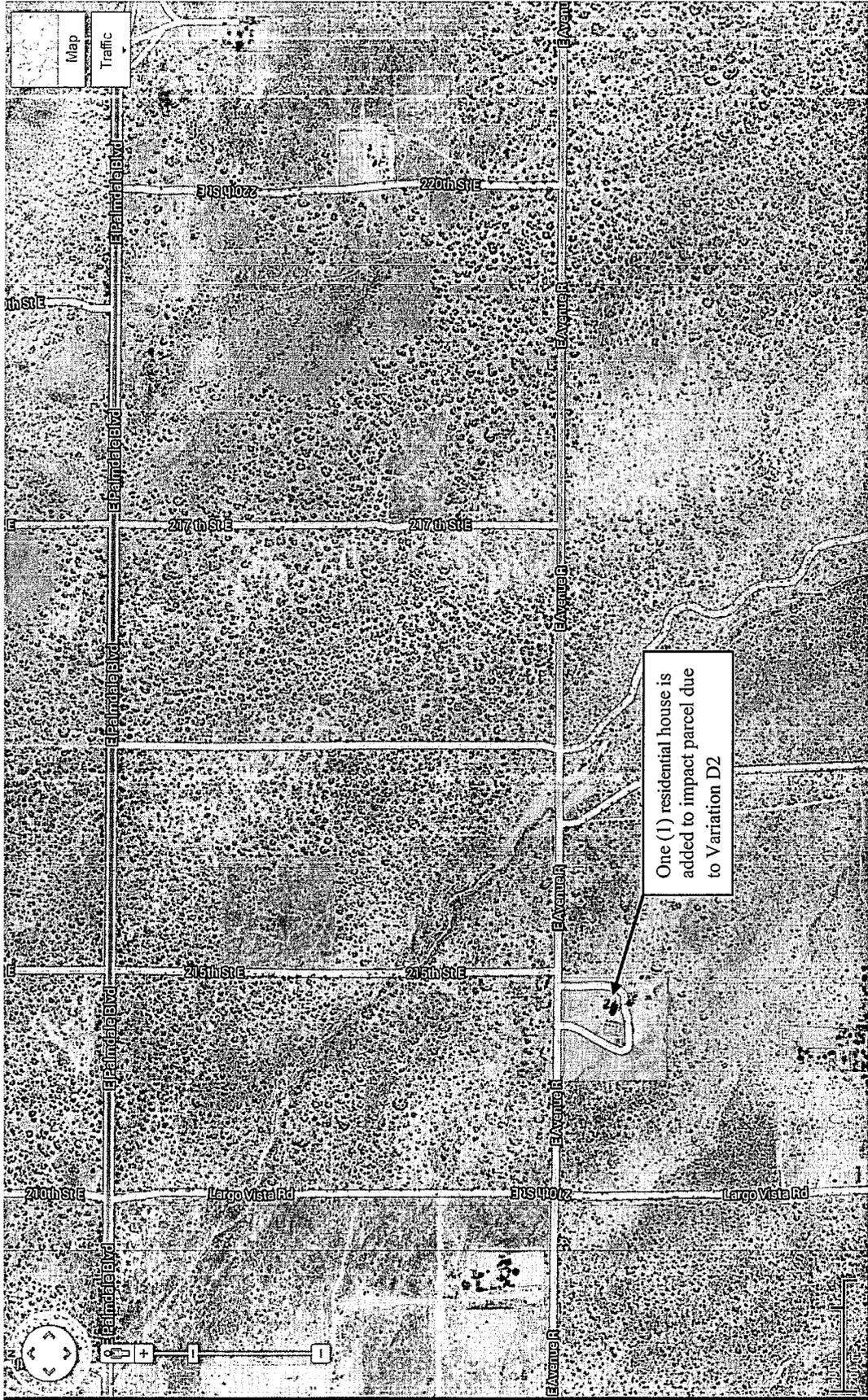


Photo B04. Aerial photo is between 210th Street and 220th Street. The alternatives 2 and 3 of the highway 138 within this area are located between Palmdale Blvd. and Avenue R. The new proposed Variation D2 in 210th Street is located about 0.30 mile (or 1,600 feet) south of the proposed alternatives 2 and 3. After 215th Street, the proposed Variation D2 starts to swing north to about 0.26 mile (or 1,400 feet) of the originally proposed alternatives 2 and 3 which is about 0.04 mile (or 200 feet) south of Avenue R.

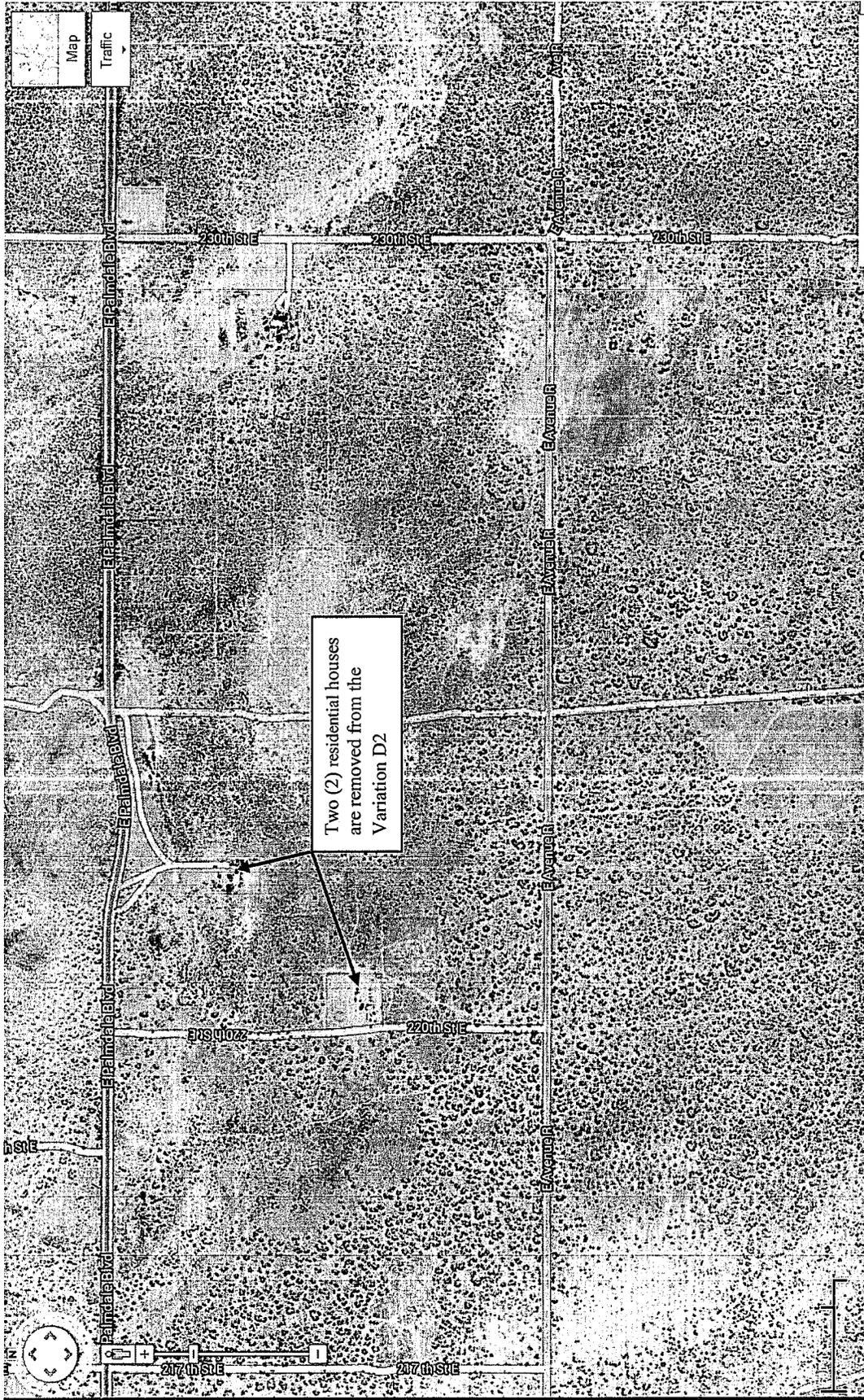


Photo B05. Aerial photo is between 210th Street and 220th Street. The alternatives 2 and 3 of the highway 138 within this area are located between Palmdale Blvd. and Avenue R. The new proposed Variation D2 in 220th Street is located from 0.26 miles (or 1,600 feet) south of the proposed alternatives 2 and 3 and the Variation D2 is gradually swing north to approach the original proposed alternatives 2 and 3 which is about 1,000 feet east of the 230th Street.