



**Santa Clarita Valley  
Water Agency**

**LARIAC User Group Meeting  
16 May 2023**

***Utilizing LARIAC to Capture  
Irrigated Areas per Service Meter  
for Supporting Water  
Sustainability/Conservation***

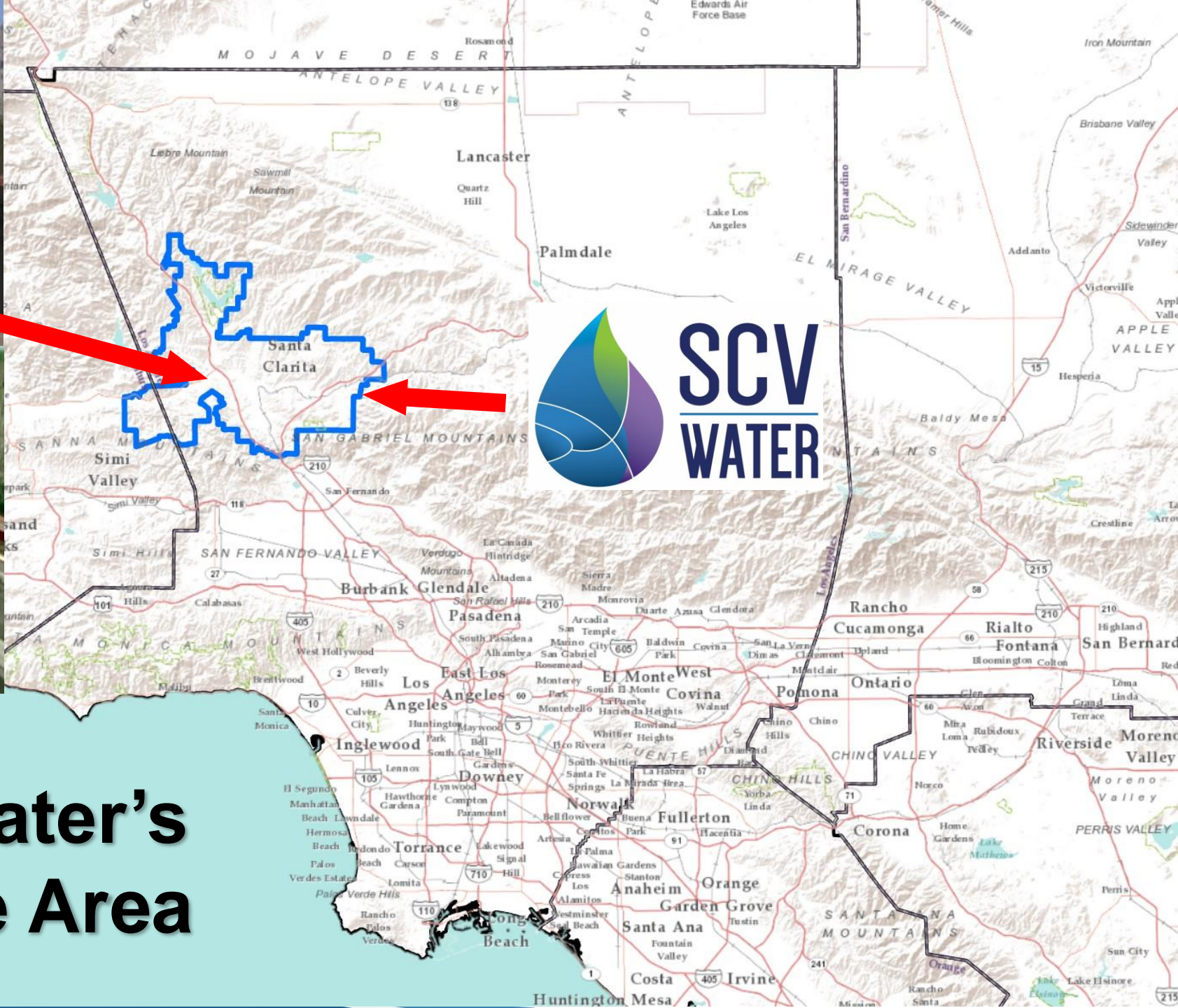
**Doug Richan  
GIS Analyst**





# **Santa Clarita Valley Water Agency**

- **History of SCV Water before 2018**
- **Why we chose LARIAC**
- **Projects using high resolution aerial imagery**

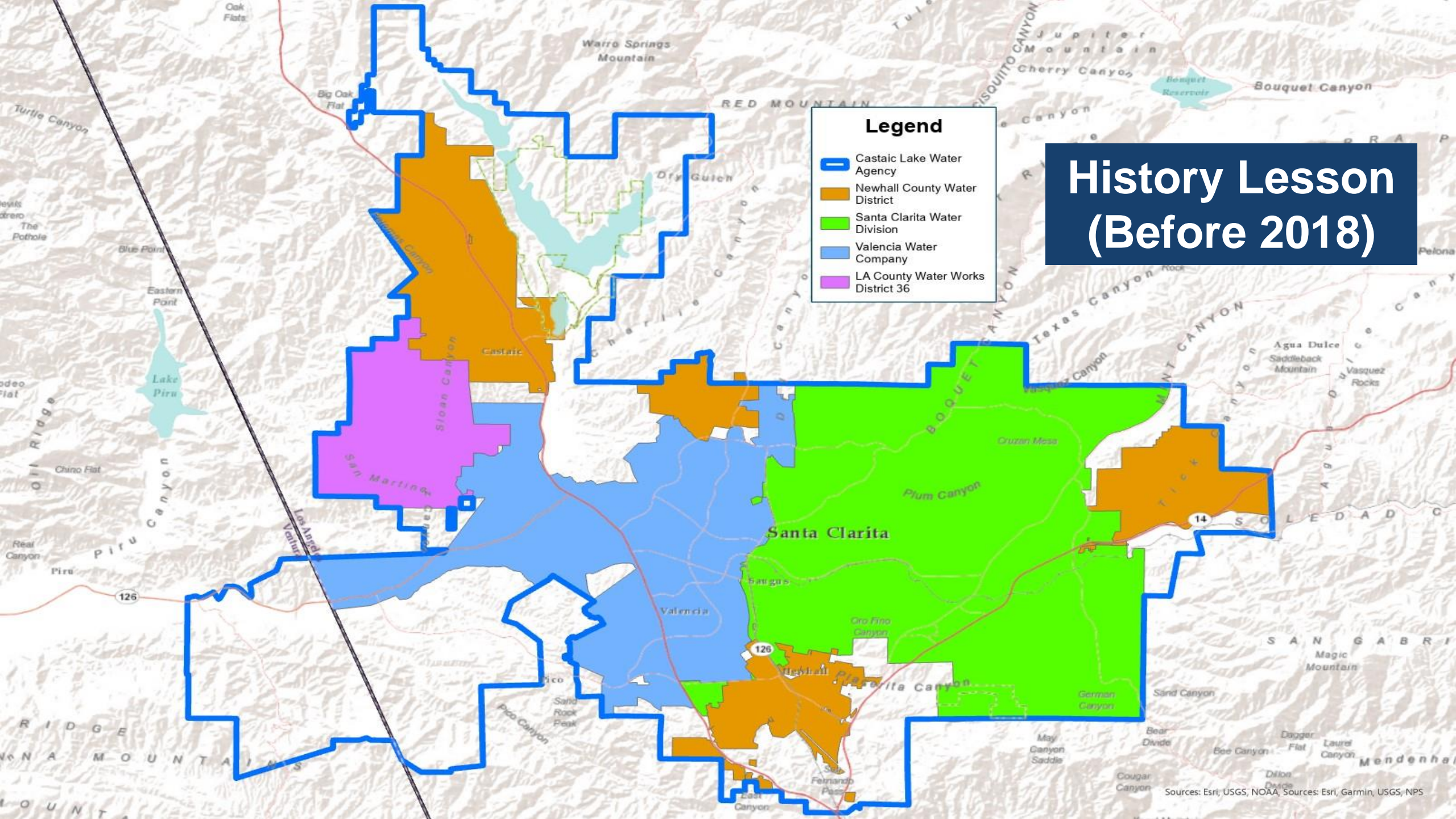


# SCV Water's Service Area

# History Lesson (Before 2018)

**Legend**

-  Castaic Lake Water Agency
-  Newhall County Water District
-  Santa Clarita Water Division
-  Valencia Water Company
-  LA County Water Works District 36



# History Lesson (Before 2018)



Santa Clarita Water Division



Valencia Water Company



NEWHALL COUNTY  
WATER DISTRICT

NCWD



Los Angeles County  
Waterworks District 36

# 1 January 2018 Santa Clarita Valley Water Agency

*All Together Now*

# SCV WATER

SCV Water became the water retailer and wholesaler except for the Val Verde area

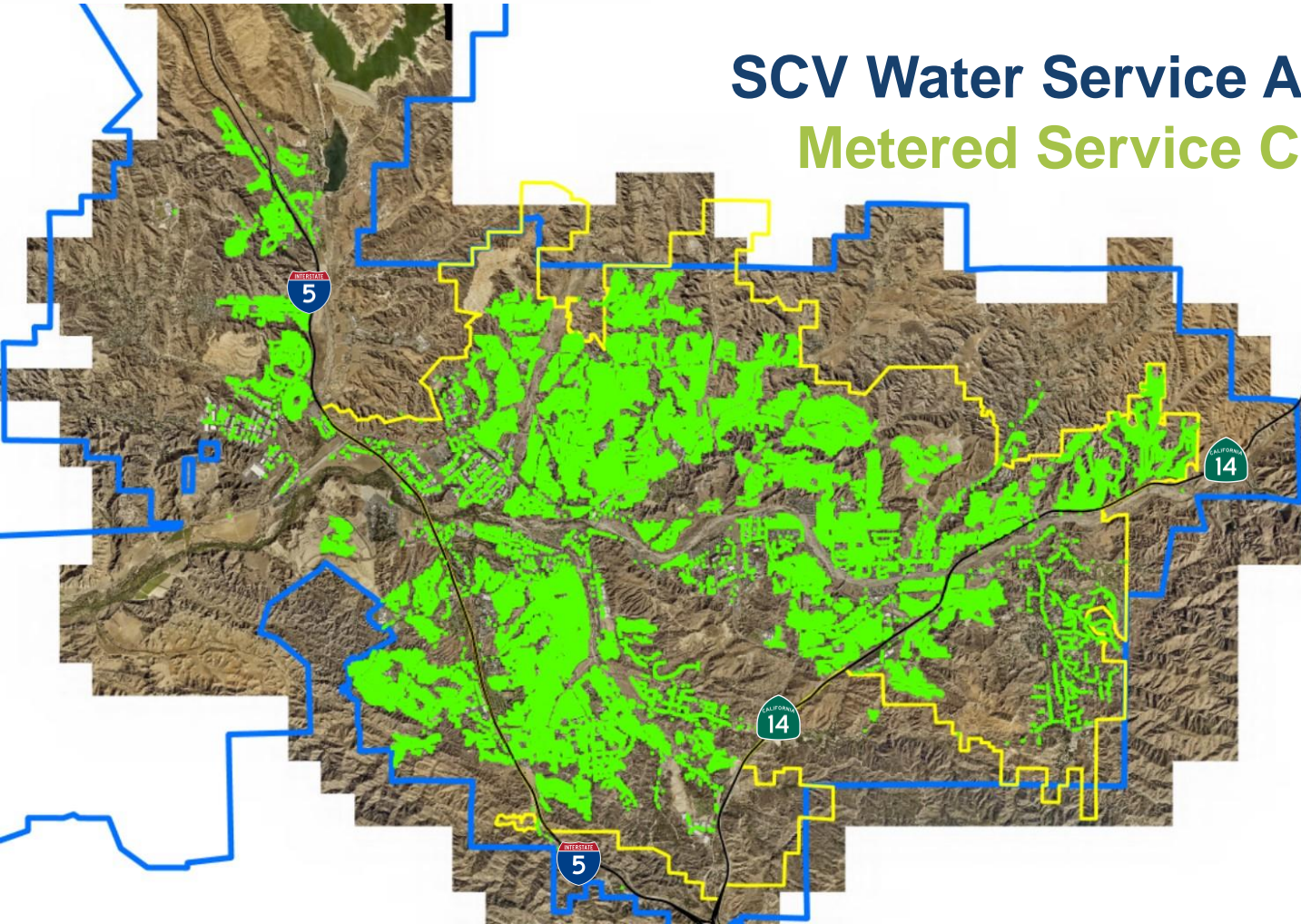


Los Angeles Waterworks District 36 (water retailer)



**SCV**  
**WATER**

**SCV Water Service Area: 197 sq miles**  
**Metered Service Connections: 76,000+**



**Santa Clarita Valley Population: 262,000+/-**

- **City of Santa Clarita**
- **Unincorporated LA County:**
  - **Castaic**
  - **Stevenson Ranch**
  - **Newhall Ranch development (21,000+ new housing units)**



**SCV**  
**WATER**

## Why we chose LARIAC Water Conservation and GIS

2018 SCV Water's Conservation Department asked GIS department for help with:

Department of Water Resources' (DWR)

- Model Water Efficient Landscape Ordinance (MWELO)
- Residential Landscape Area Measurement (LAM) data

LAM Data

- Residential outside water use
  - Parcels
  - LA County Parcels need alignment with property lines to accurately assign water allocation per parcel
  - Some residential parcels include HOA irrigated and maintained areas
  - Parcels do not include irrigated areas near the curb (right-of-way)

Solution: LARIAC for high accuracy aerial imagery

**January 2019 received LARIAC 5**



*What we're  
dealing with here...*

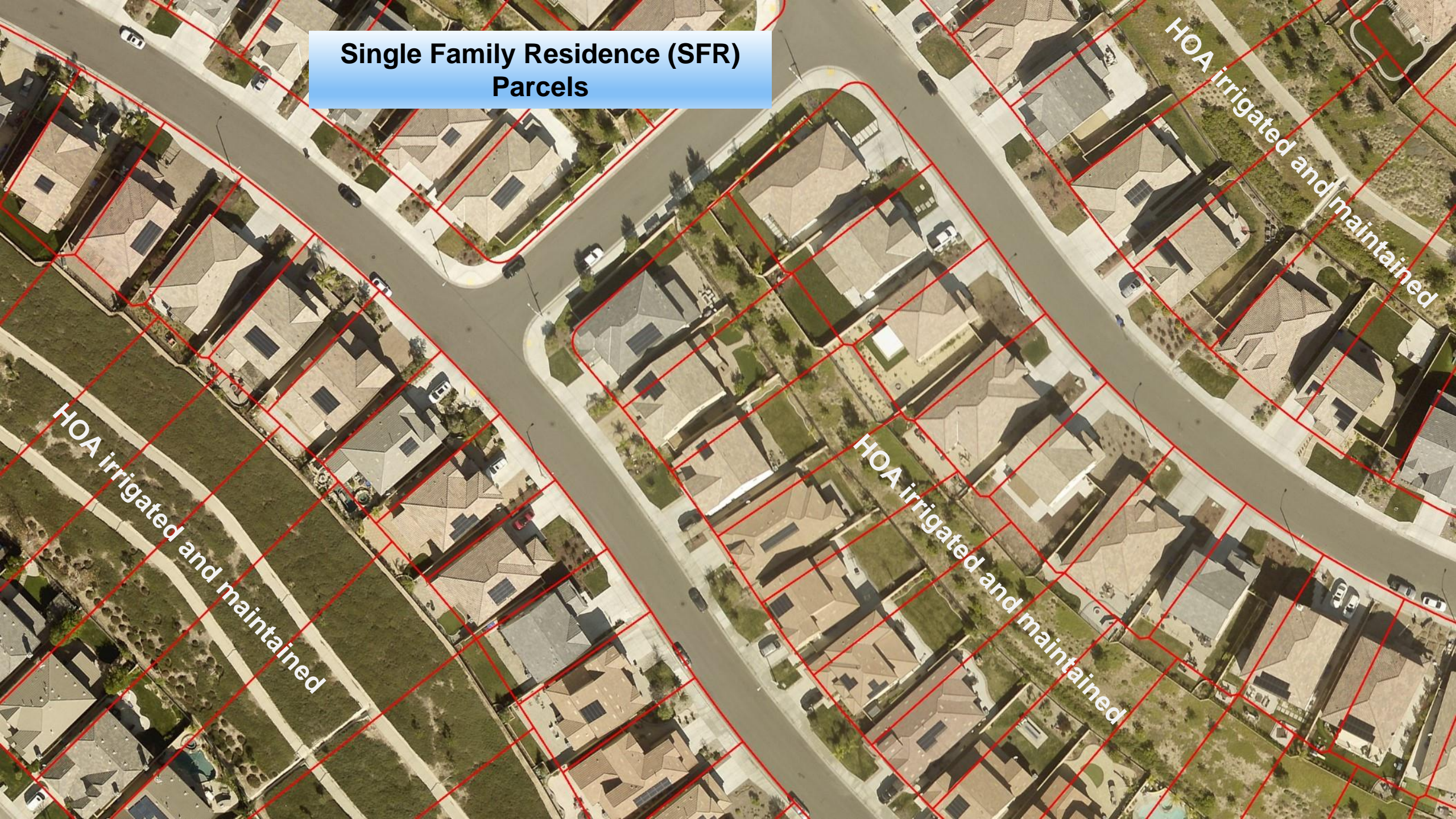


## 2017 LARIAC 5 Aerial Imagery

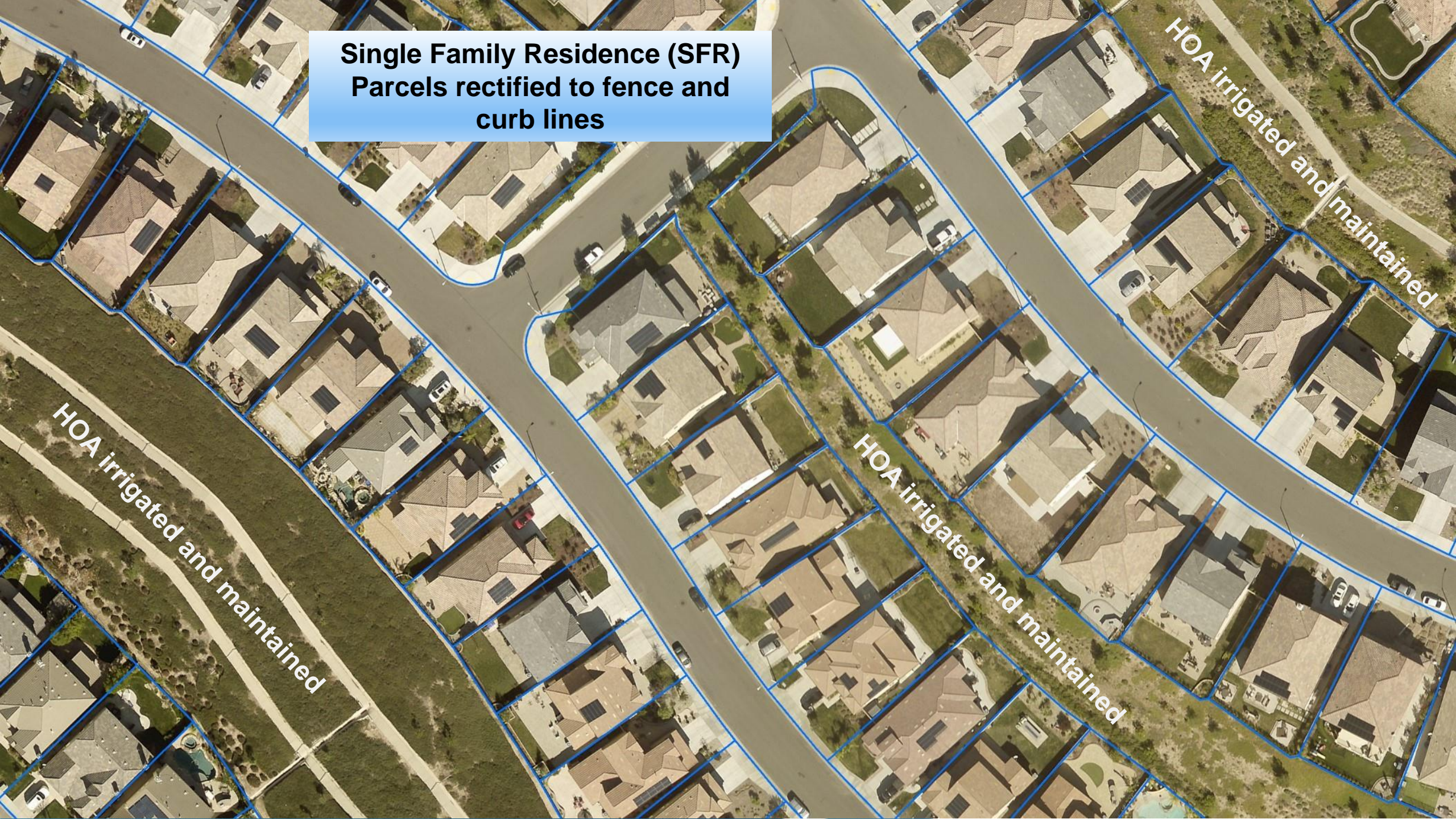
### LA County Parcels

- 79,000+/- residential parcels
- Single Family Residence (SFR)
  - SFR-Detached Condos
  - Attached Condos
  - Multi-Family

**Single Family Residence (SFR)  
Parcels**



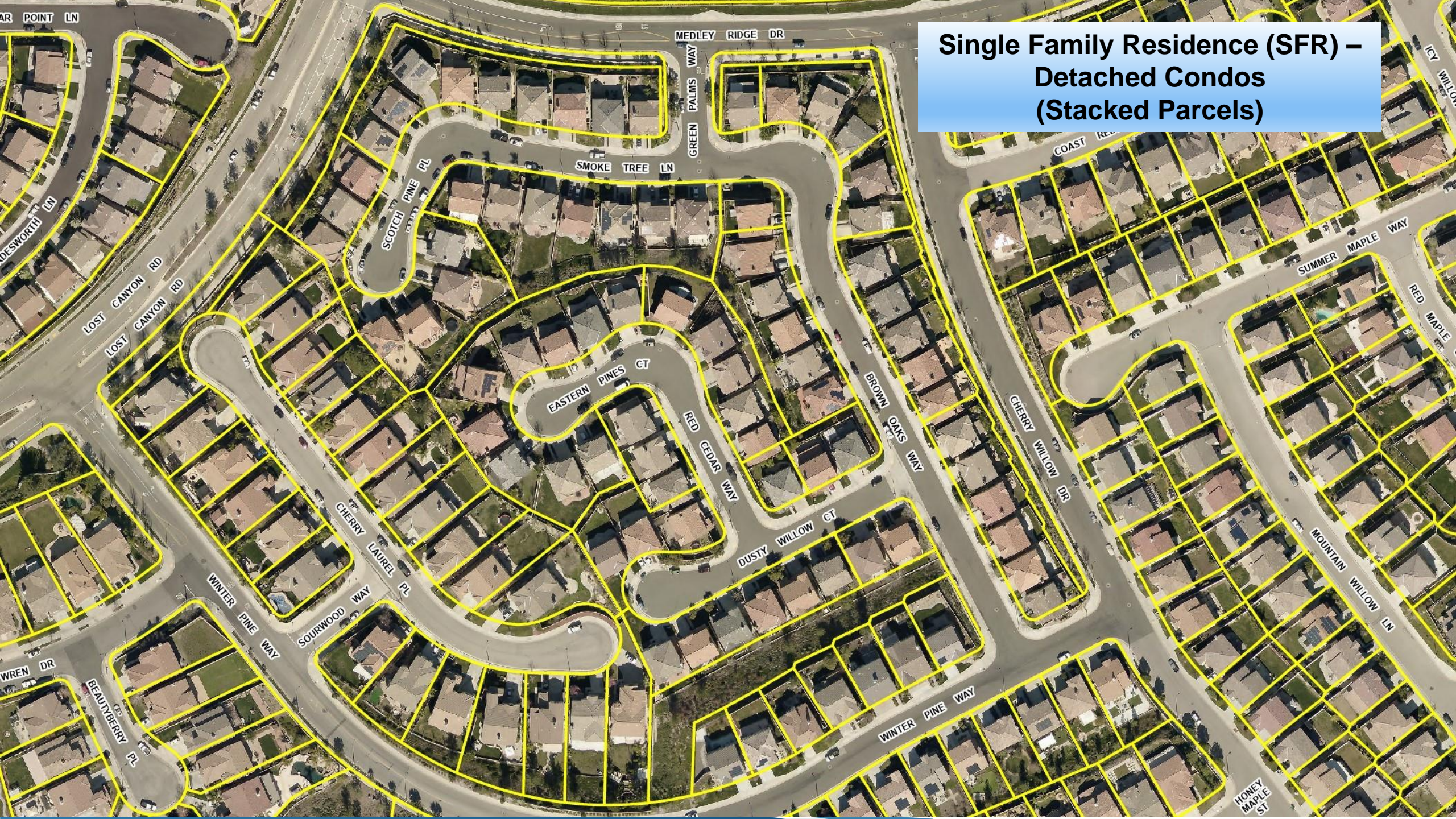
**Single Family Residence (SFR)  
Parcels rectified to fence and  
curb lines**



**Single Family Residence (SFR) –  
Detached Condos  
(Stacked Parcels)**



**Single Family Residence (SFR) –  
Detached Condos  
(Stacked Parcels)**



2007

THE ASSESSMENT OF UNITS IN THE FOLLOWING AIRSPACE PLANS INCLUDES ALL RIGHTS AND INTERESTS IN THE COMMON AREAS AS SET FORTH IN DEEDS OF RECORD. EACH PLAN DEPICTS APPROXIMATE DIMENSIONS FROM WHICH AREAS ARE COMPUTED. AREAS ARE FOR CORRESPONDING ELEMENTS ONLY.

| AIRSPACE PLAN REFERENCE         | TRACT NO | BLK | LOTS        | TYPE  | SUBDIVISION OF AIRSPACE SHEET(S) |
|---------------------------------|----------|-----|-------------|-------|----------------------------------|
| #1708869 7-20-05 MOCEL PHASE    | 52833-06 | -   | 4 POR       | CONDO | 2                                |
| #1708868 7-20-05 PHASE 1        | 52833-06 | -   | 1 & 2 PORs  | CONDO | 2                                |
| #1723139 7-21-05 PHASE 2        | 52833-06 | -   | 1 & 2 PORs  | CONDO | 2                                |
| #2457666 10-13-05 PHASE 3       | 52833-06 | -   | 2 & 4 PORs  | CONDO | 3                                |
| #2489776 10-17-05 PHASE 4       | 52833-06 | -   | 23 & 4 PORs | CONDO | 3                                |
| #2501352 10-18-05 PHASE 5       | 52833-06 | -   | 2 & 3 PORs  | CONDO | 3                                |
| #2516112 10-19-05 PHASE 6       | 52833-06 | -   | 2 POR       | CONDO | 3                                |
| #200719 1-27-06 PHASE 7         | 52833-06 | -   | 2 POR       | CONDO | 3                                |
| #1730511 8-4-06 DRE MBO PHASE 8 | 52833-06 | -   | 2 & 4 PORs  | CONDO | 2 & 3                            |

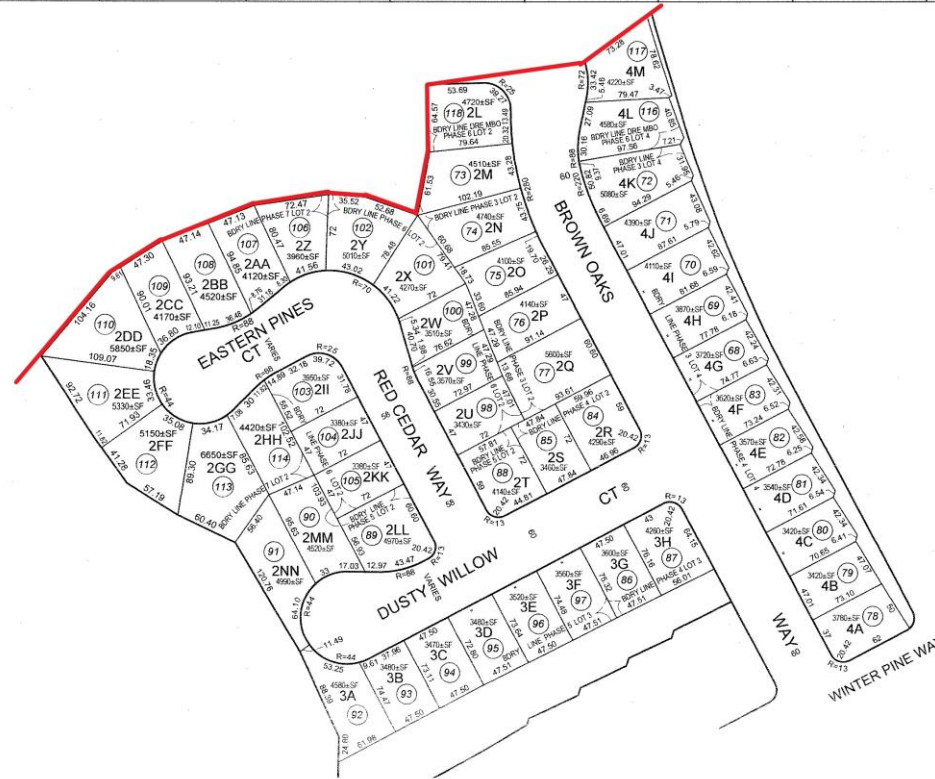


SUBDIVISION OF AIRSPACE  
 CONDOMINIUM TRACT NO 52833-06  
 FOR COMMON AREA SEE SHEET 1  
 DIAGRAMMATICS DEPICT THE LAND FOOTPRINTS OF EACH PARCEL  
 AND DO NOT SHOW ALL ELEVATIONS AND APPURTENANCES.

Hard Copy  
 Parcel Maps

LA County  
 Property Assessment Information System  
 website:  
<https://maps.assessor.lacounty.gov/m/>

2007



SUBDIVISION OF AIRSPACE  
 CONDOMINIUM TRACT NO 52833-06  
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|--|-------------|-----|----------------|-------|----------------------------------|
|  | TRACT NO    | BLK | LOTS           |       |                                  |
| #1708869 7-20-05 MODEL PHASE                           | 52833-06    | -   | 4 POR          | CONDO | 2                                |
| #1708868 7-20-05 PHASE 1                               | 52833-06    | -   | 1 & 2 PORS     | CONDO | 2                                |
| #1723139 7-21-05 PHASE 2                               | 52833-06    | -   | 1 & 2 PORS     | CONDO | 2                                |
| #2467895 10-13-05 PHASE 3                              | 52833-06    | -   | 2 & 4 PORS     | CONDO | 3                                |
| #2489779 10-17-05 PHASE 4                              | 52833-06    | -   | 2 & 3 & 4 PORS | CONDO | 3                                |
| #2501352 10-18-05 PHASE 5                              | 52833-06    | -   | 2 & 3 PORS     | CONDO | 3                                |
| #2516112 10-19-05 PHASE 6 AMENDED BY #1115024 05-22-06 | 52833-06    | -   | 2 POR          | CONDO | 3                                |
| #200719 1-27-06 PHASE 7                                | 52833-06    | -   | 2 POR          | CONDO | 3                                |
| #1730511 8-4-06 DRE MBO PHASE 6                        | 52833-06    | -   | 2 & 4 PORS     | CONDO | 2 & 3                            |



SUBDIVISION OF AIRSPACE  
 CONDOMINIUM TRACT NO 52833-06

FOR COMMON AREA SEE SHEET 1  
 DIAGRAMMATIC DEPICT THE LAND FOOTPRINTS OF EACH PARCEL  
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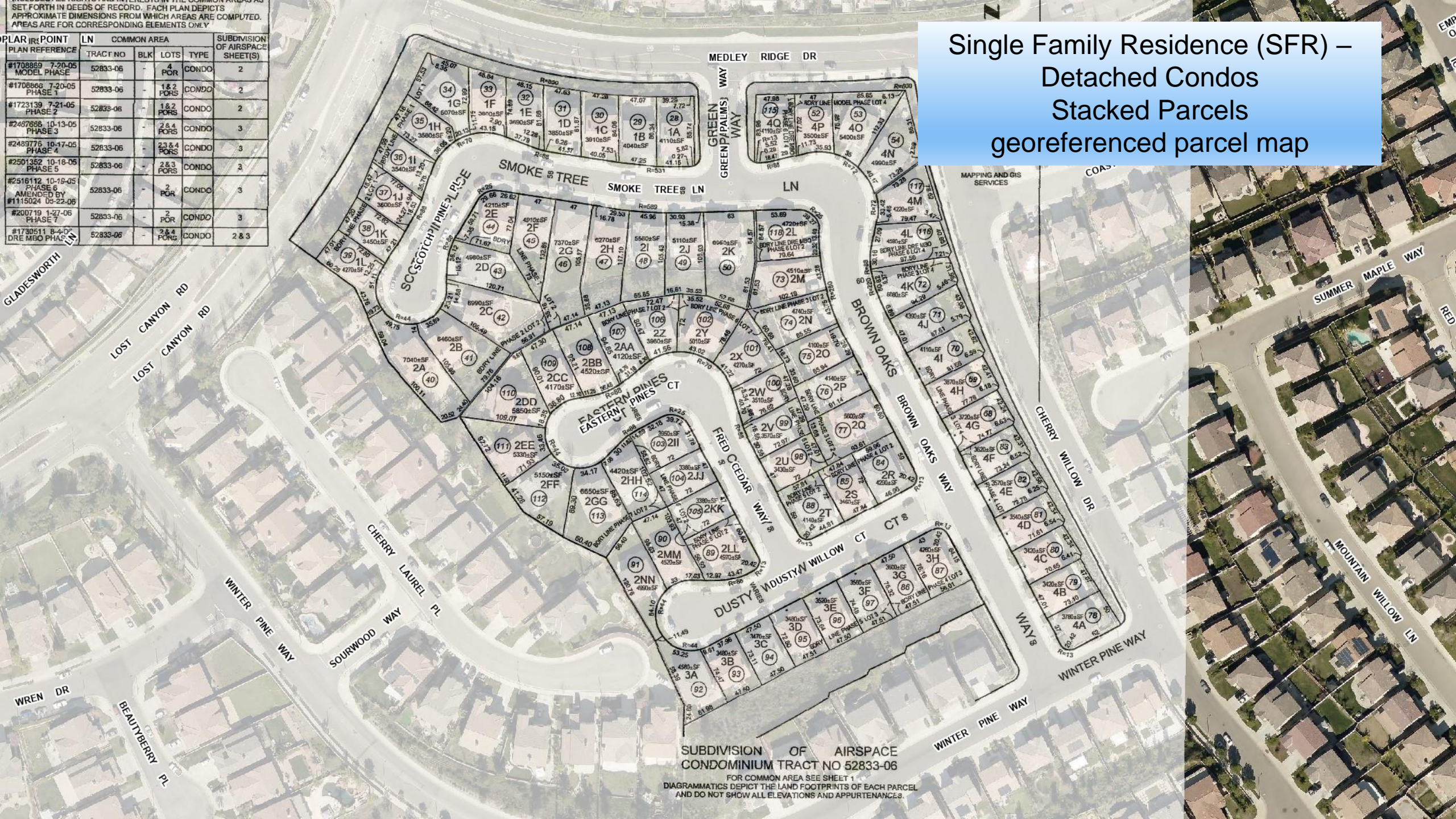
Hard Copy  
 Parcel Maps  
 cut & paste

LA County  
 Property Assessment Information System  
 website:  
<https://maps.assessor.lacounty.gov/m/>

SET FORTH IN DEEDS OF RECORD. EACH PLAN DEPICTS APPROXIMATE DIMENSIONS FROM WHICH AREAS ARE COMPUTED. AREAS ARE FOR CORRESPONDING ELEMENTS ONLY.

| PLAN REFERENCE   | LN       | COMMON AREA       | SUBDIVISION OF AIRSPACE SHEET(S) |
|--|----------|-------------------|----------------------------------|
| #1708889 7-20-05 MODEL PHASE                           | 52833-06 | - 4 POR CONDO     | 2                                |
| #1708868 7-20-05 PHASE 1                               | 52833-06 | - 1 & 2 POR CONDO | 2                                |
| #1723139 7-21-05 PHASE 2                               | 52833-06 | - 1 & 2 POR CONDO | 2                                |
| #2487886 10-13-05 PHASE 3                              | 52833-06 | - 2 & 4 POR CONDO | 3                                |
| #2489776 10-17-05 PHASE 4                              | 52833-06 | - 2 & 4 POR CONDO | 3                                |
| #2501352 10-18-05 PHASE 5                              | 52833-06 | - 2 & 3 POR CONDO | 3                                |
| #2516112 10-19-05 PHASE 6 AMENDED BY #1115024 03-22-06 | 52833-06 | - 2 POR CONDO     | 3                                |
| #200719 1-27-06 PHASE 7                                | 52833-06 | - 2 POR CONDO     | 3                                |
| #1730511 8-4-07 DRE MBO PHASE 8                        | 52833-06 | - 2 & 4 POR CONDO | 2 & 3                            |

Single Family Residence (SFR) –  
Detached Condos  
Stacked Parcels  
georeferenced parcel map

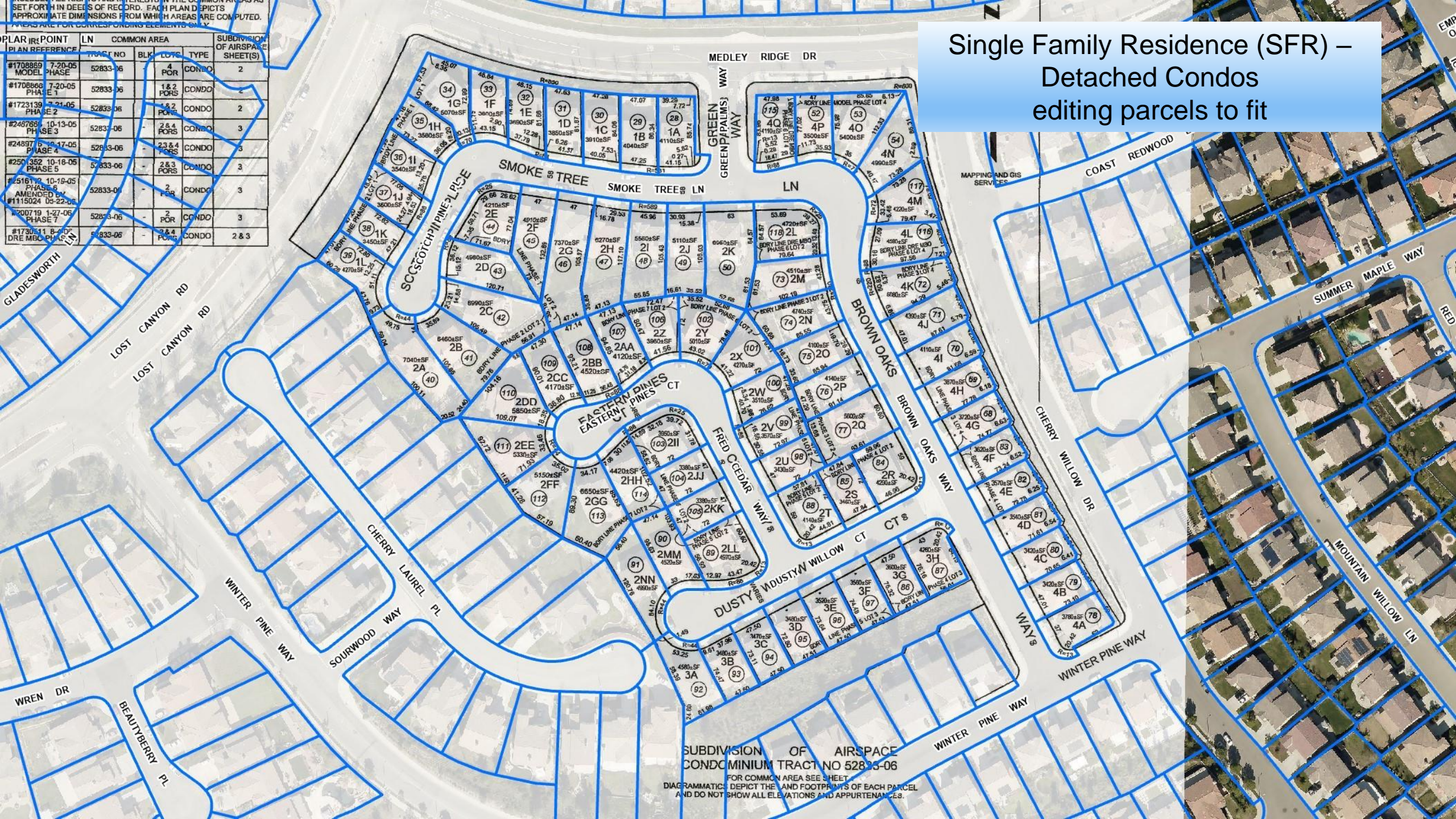




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| PLAN REFERENCE | POINT   | LN       | COMMON AREA | TRAC NO | BLK | LOTS       | TYPE  | SUBDIVISION OF AIRSPACE SHEET(S) |
|----------------|---|----------|-------------|---------|-----|------------|-------|----------------------------------|
| #1708889       | 7-20-05 MODEL PHASE                           | 52833-06 |             |         |     | 4 POR      | CONDO | 2                                |
| #1708866       | 7-20-05 PHASE 1                               | 52833-06 |             |         |     | 1 & 2 PORS | CONDO | 2                                |
| #1723139       | 7-21-05 PHASE 2                               | 52833-06 |             |         |     | 1 & 2 PORS | CONDO | 2                                |
| #248768        | 10-13-05 PHASE 3                              | 52833-06 |             |         |     | 2 & 4 PORS | CONDO | 3                                |
| #24897         | 10-17-05 PHASE 4                              | 52833-06 |             |         |     | 2 & 4 PORS | CONDO | 3                                |
| #250352        | 10-18-06 PHASE 5                              | 52833-06 |             |         |     | 2 & 3 PORS | CONDO | 3                                |
| #516172        | 10-19-05 PHASE 6 AMENDED BY #1115024 03-22-06 | 52833-01 |             |         |     | 2 POR      | CONDO | 3                                |
| #200719        | 1-27-06 PHASE 7                               | 52833-06 |             |         |     | 2 POR      | CONDO | 3                                |
| #1730511       | 8-1-07 DRE MBO PHASE 8                        | 52833-06 |             |         |     | 2 & 4 PORS | CONDO | 2 & 3                            |

Single Family Residence (SFR) – Detached Condos editing parcels to fit

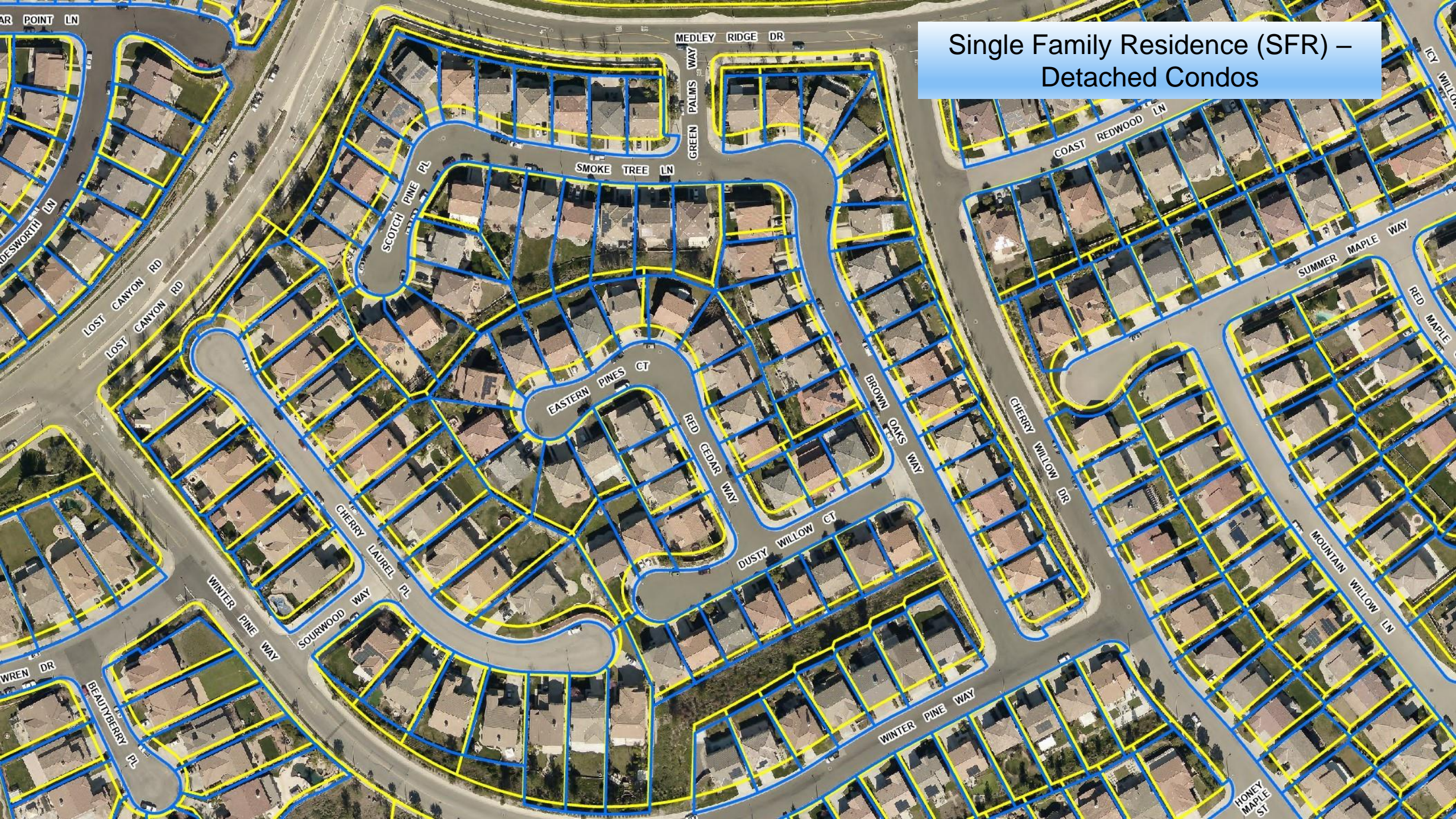


SUBDIVISION OF AIRSPACE  
 CONDOMINIUM TRACT NO 52833-06  
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 DIAGRAMMATICALLY DEPICT THE AND FOOTPRINTS OF EACH PARCEL  
 AND DO NOT SHOW ALL ELEVATIONS AND APPURTENANCES.



Single Family Residence (SFR) –  
Detached Condos  
no more stacked parcels

Single Family Residence (SFR) –  
Detached Condos



Attached Condos  
Stacked Parcels



Attached Condos  
Stacked Parcels  
georeferenced parcel map



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REVISOR: 201903052100400  
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201.

2019

2021

Tract 52455-06 - West Creek - Poloma  
Parcel Map 2810-135-xxx  
Tri-Pointe Homes

JARDINERAS

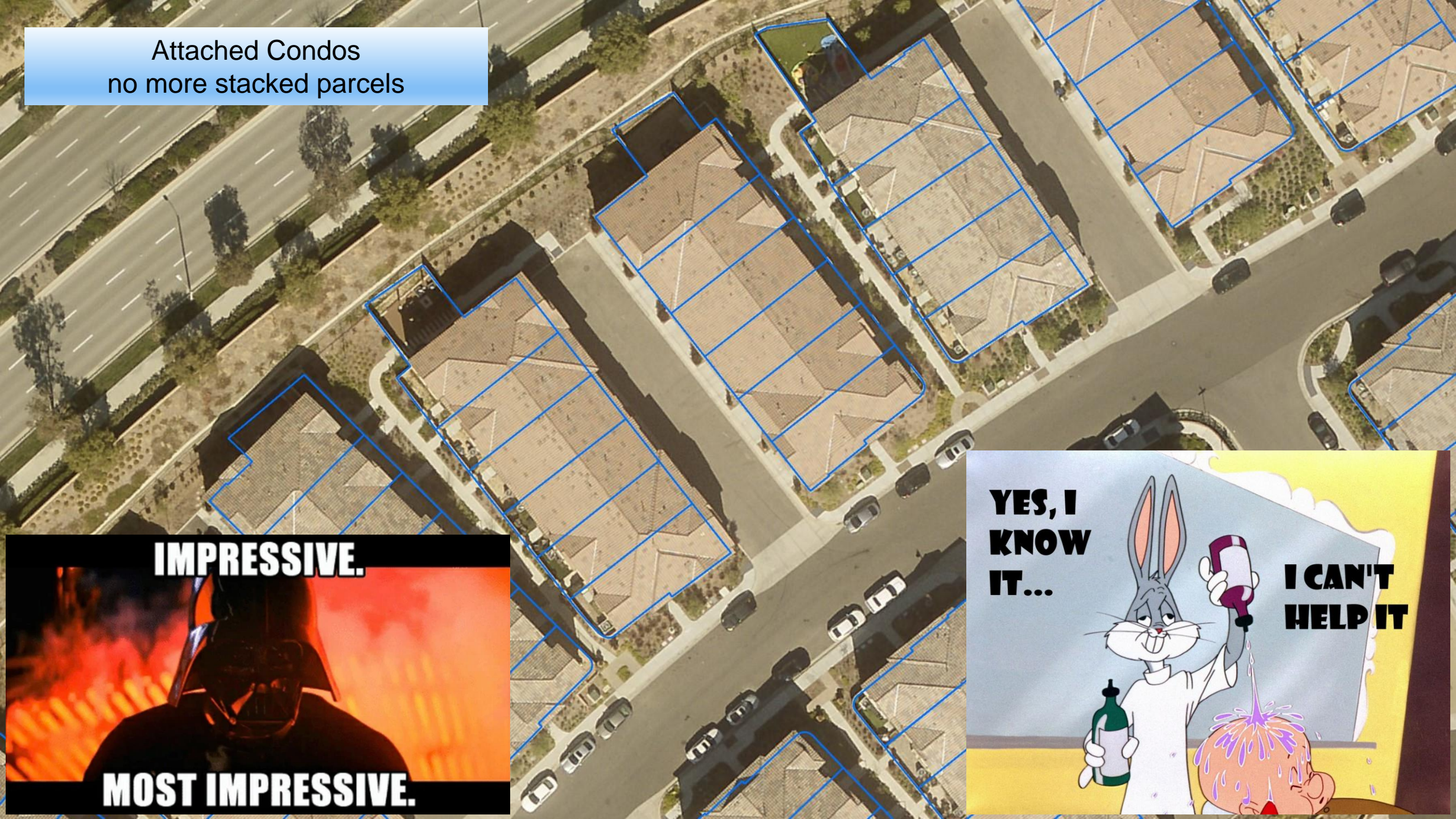
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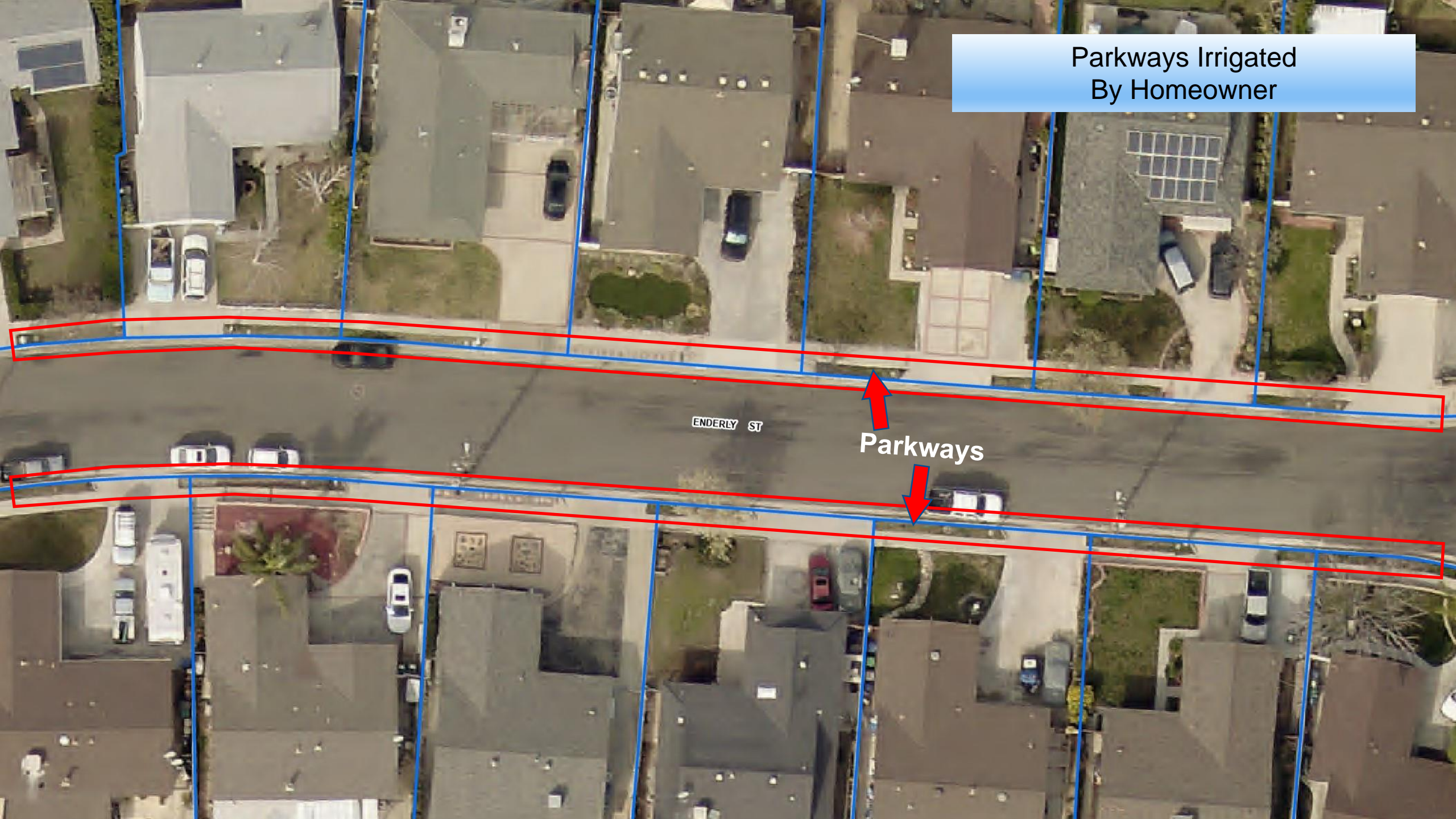
Attached Condos  
no more stacked parcels



Parkways Irrigated  
By Homeowner

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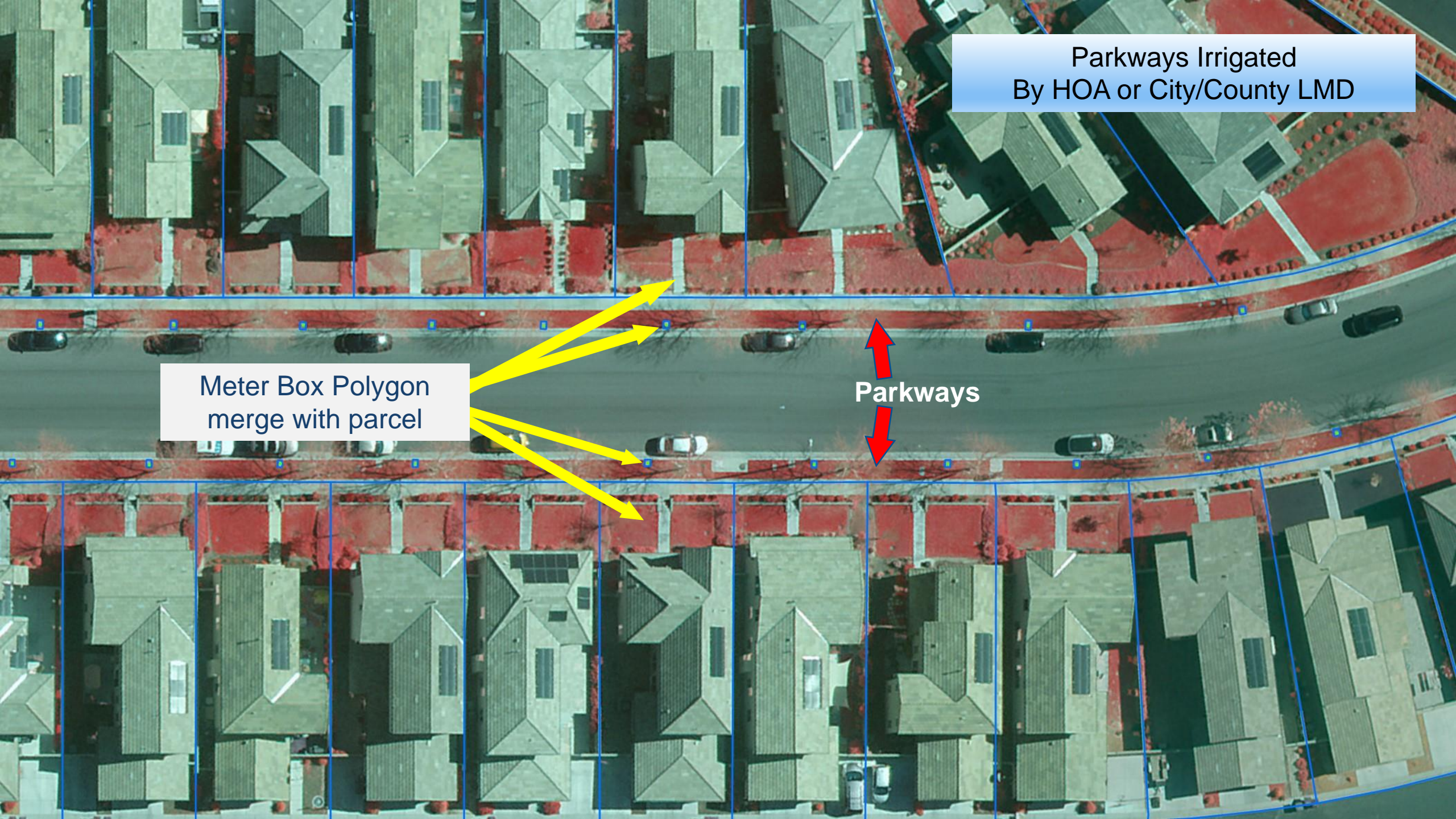
Parkways



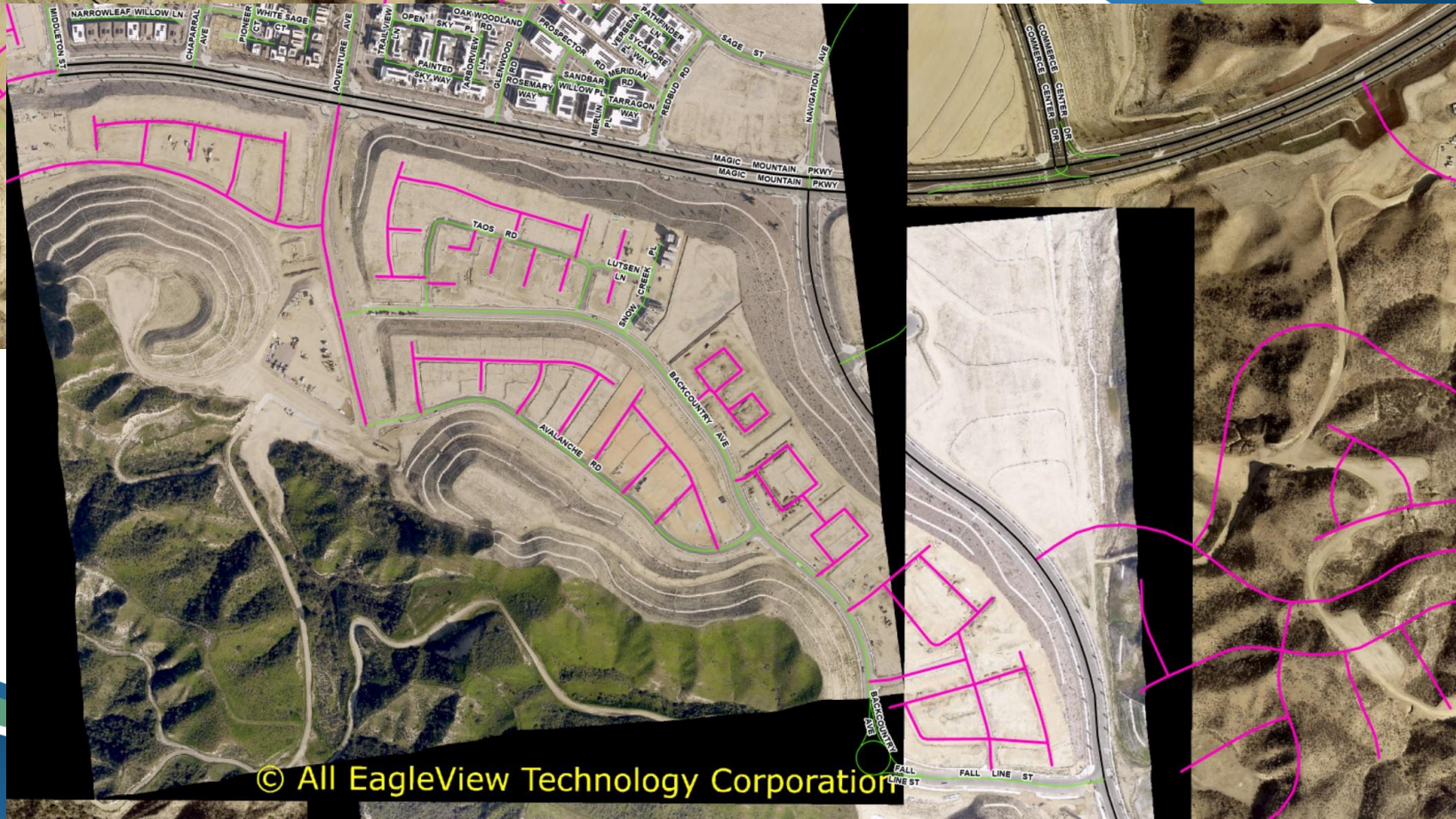
Parkways Irrigated  
By HOA or City/County LMD

Meter Box Polygon  
merge with parcel

Parkways







**LARIAC Imagery and  
CONNECT-Explorer early access  
is extremely valuable tool for  
updating roads, pipelines, and  
other facilities of new  
developments!!!**

## What's Next using LARIAC...

- Digitizing HOA Common Area Landscape polygons (just started)
- LMD areas were already received by the City and County (thank you!!!)



- Rectifying Commercial/Industrial Parcels
- Near infrared analysis for each parcel
  - More accuracy for water use targets for each customer
- Imagery and landscape data included in a dashboard for customer service department and for the customer's online account



# QUESTIONS/COMMENTS?



*I'm sorry, but all questions must be submitted in writing.*

Doug Richan  
GIS Analyst  
Santa Clarita Valley Water Agency  
drichan@scvwa.org

José Huerta  
GIS Manager  
Santa Clarita Valley Water Agency  
jhuerta@scvwa.org



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