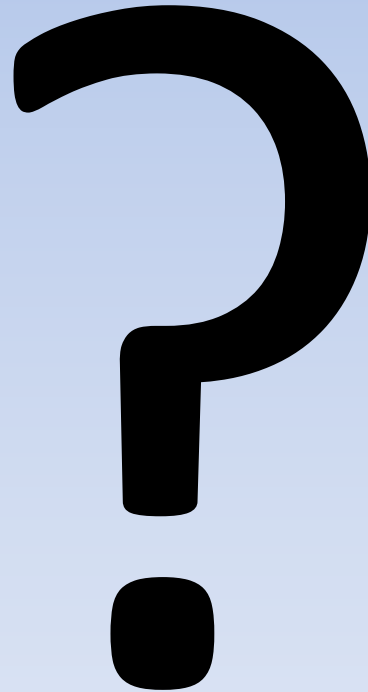


Dude, What's My Zoning?



# Some San Rafael Basics

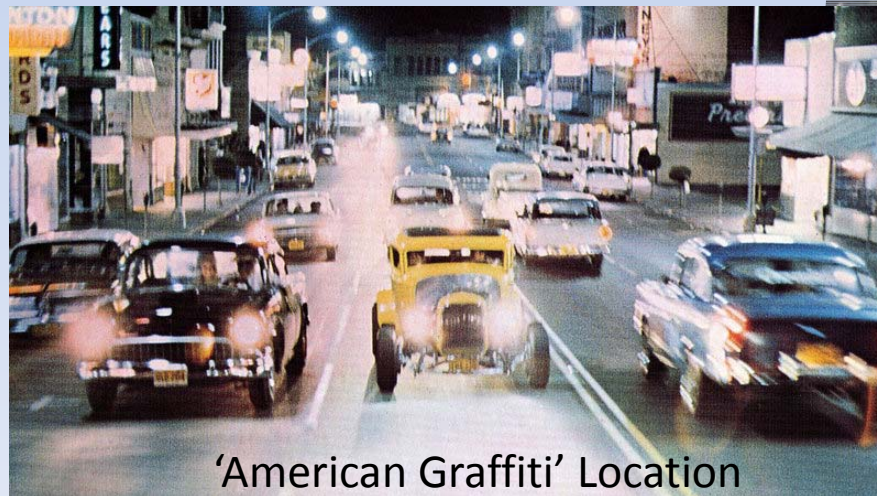
- Population: 60,000
- County Seat of Marin County
- Just North of San Francisco over the Golden Gate Bridge

# Things People Care About in San Rafael

Marin County Civic Center  
Designed by Frank Lloyd Wright



San Rafael Mission



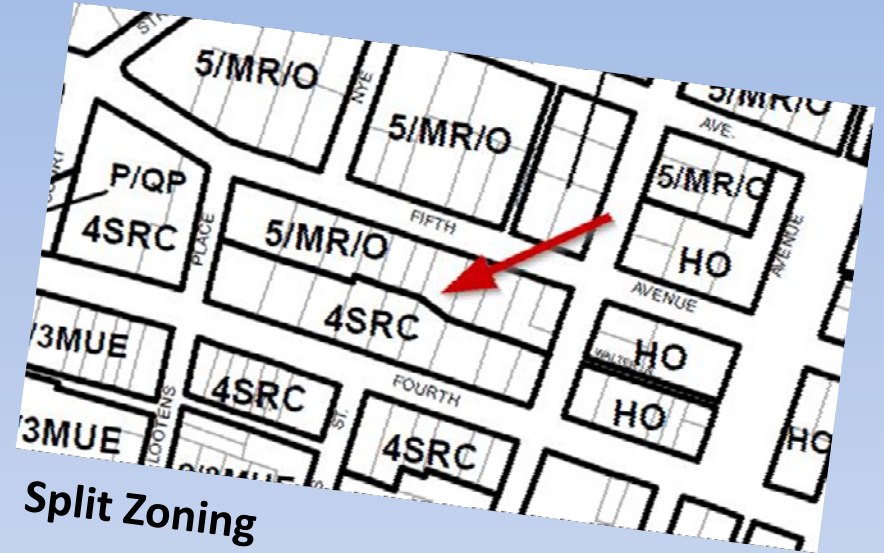
'American Graffiti' Location

# Things I Care About in San Rafael

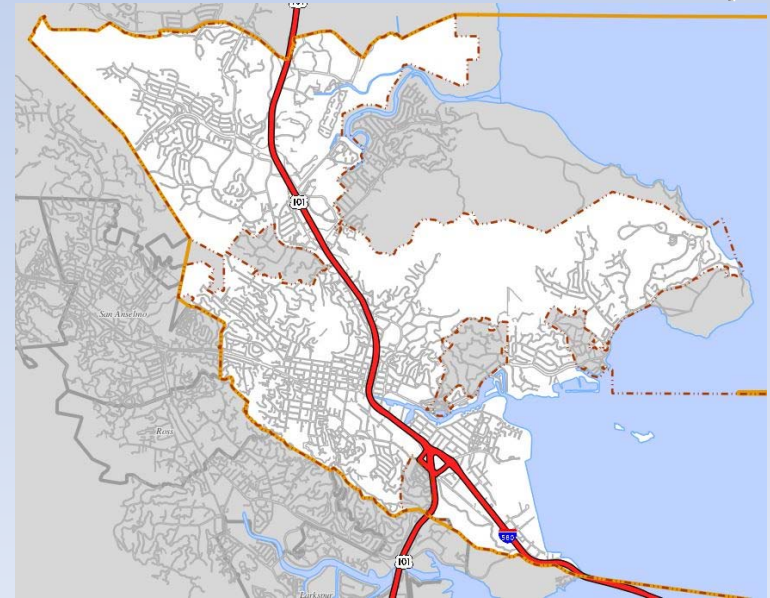
17,864 Parcels



Split Jurisdiction



Split Zoning



Unincorporated Pockets

# Public Engagement



# Public Engagement





# Arc GIS Online

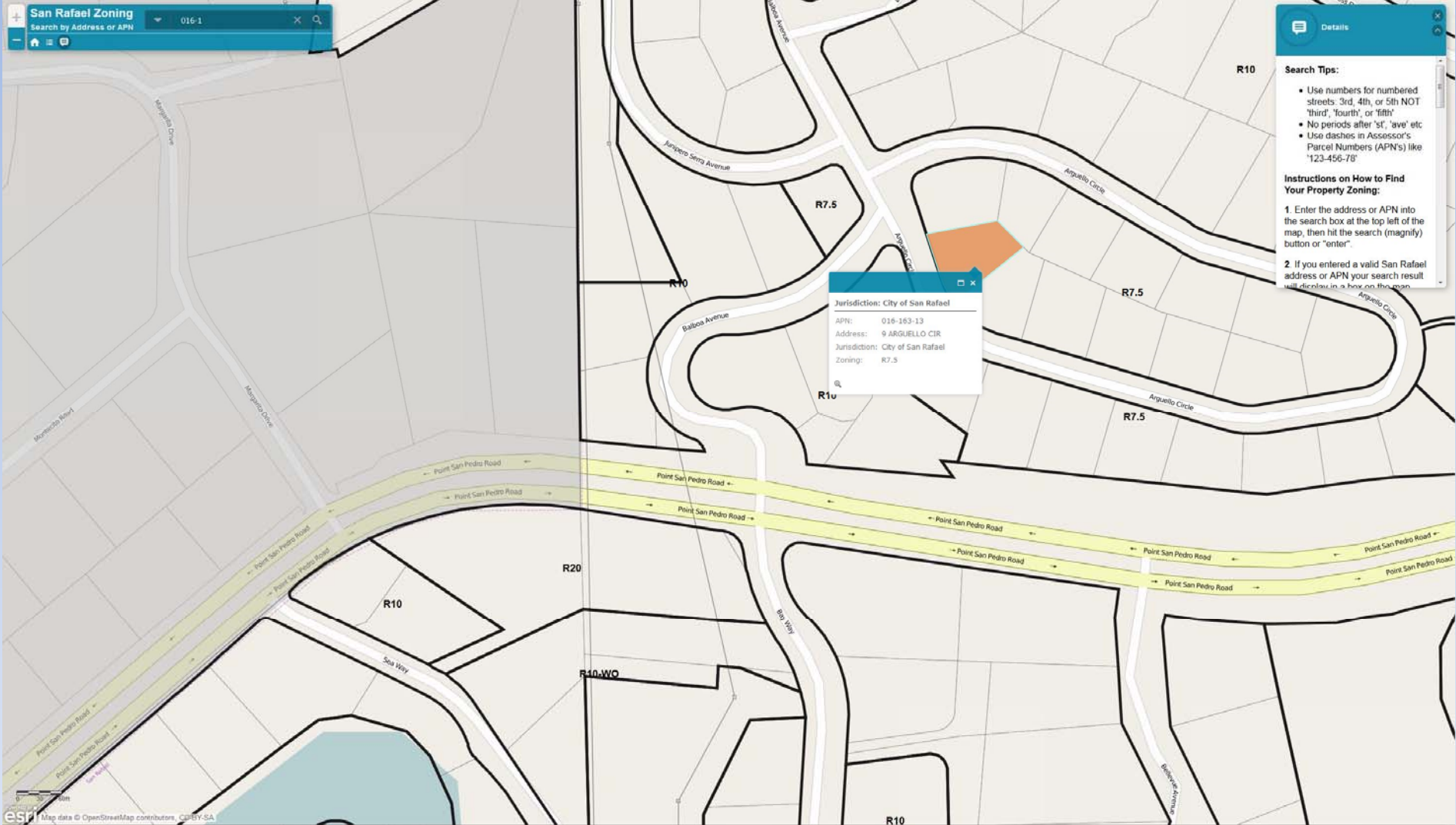
**Customizable**



**Configurable**







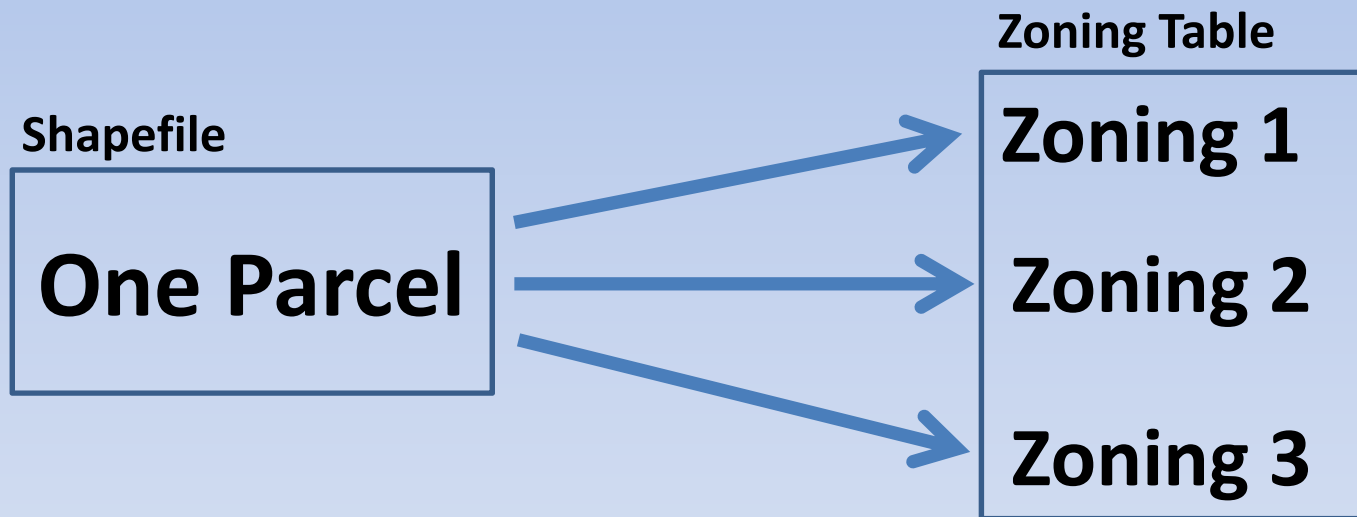
**Search Tips:**

- Use numbers for numbered streets: 3rd, 4th, or 5th NOT 'third', 'fourth', or 'fifth'
- No periods after 'st', 'ave' etc
- Use dashes in Assessor's Parcel Numbers (APN's) like '123-456-78'

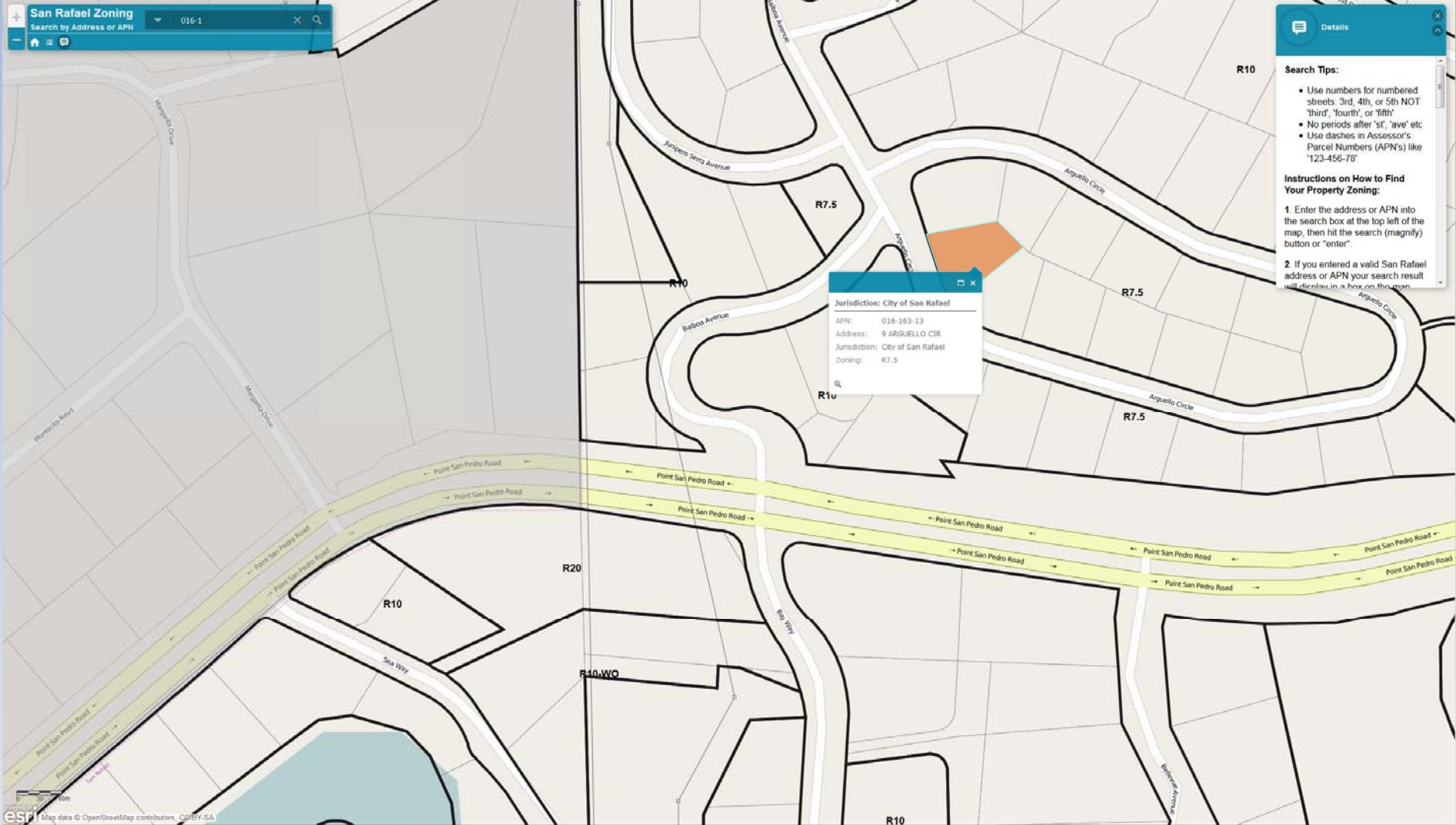
**Instructions on How to Find Your Property Zoning:**

- 1 Enter the address or APN into the search box at the top left of the map, then hit the search (magnify) button or "enter".
- 2 If you entered a valid San Rafael address or APN your search result will display in a box on the map.

# The One-to-Many Problem







Search Tips:

- Use numbers for numbered streets: 3rd, 4th, or 5th NOT 'third', 'fourth', or 'fifth'
- No periods after 'st', 'ave' etc
- Use dashes in Assessor's Parcel Numbers (APN's) like '123-456-78'

Instructions on How to Find Your Property Zoning:

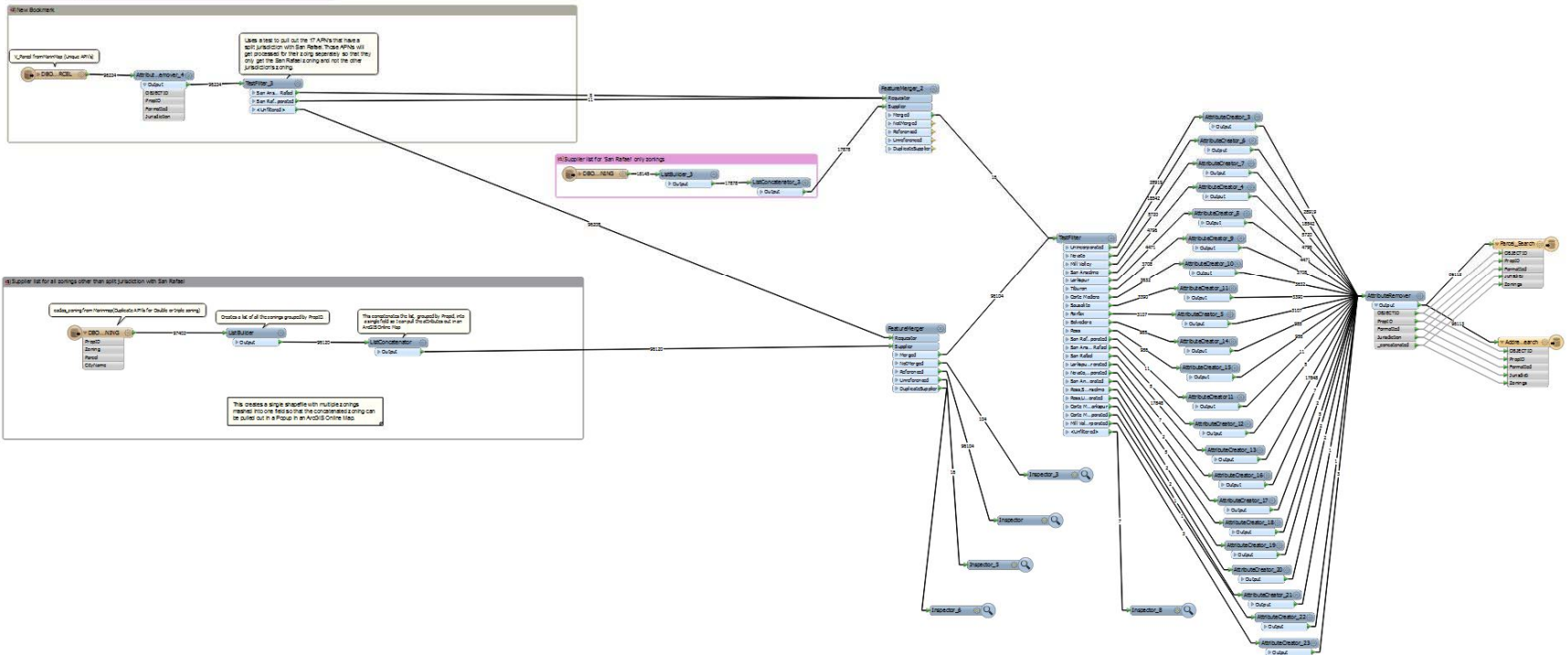
- 1 Enter the address or APN into the search box at the top left of the map, then hit the search (magnify) button or "enter".
- 2 If you entered a valid San Rafael address or APN your search result will display in a box on the map.

# One Denormalized Shapefile with Concatenated Zonings

FID	Shape *	OBJECTID	PropID	Formatted	Jurisdicti	Zonings
7579	Polygon	75795	017-201-27	108 CANAL ST	City of San Rafael	R5-C and W
8310	Polygon	83109	014-161-21	11 3RD ST	City of San Rafael	DR-C and W
5485	Polygon	54853	072-011-25	11 CREST RD	Town of Ross/Town of San Anselmo	Contact the Town of Ross and the Town of San Ansel
8461	Polygon	84616	175-092-03	11 DENNING AVE	City of San Rafael	P/OS and R7.5
8192	Polygon	81923	008-010-51	11 HARBOR VIEW CT	City of San Rafael/County of Marin	R5-C and W (Also Check with County of Marin)
7165	Polygon	71653	014-161-07	111 3RD ST	City of San Rafael	M-C and W
8596	Polygon	85965	175-360-01	111 EL CONDOR CT	City of San Rafael	P/OS and PD(1635)
3262	Polygon	32622	155-251-74	111 SMITH RANCH RD	City of San Rafael	P/OS and PD(1444)(1604)
8078	Polygon	80783	010-181-03	112 EYE ST	City of San Rafael	R10 and R5
8224	Polygon	82250	010-232-52	114 JENSEN WAY	City of San Rafael	P/OS and R7.5

# Scripting tool to create denormalized shapefile (FME)

**Zoning Concatenator:**  
This routine prepars data for the ArcGIS Online San Rafael Zoning App. It concatenates the zonings into one field and renames the zonings for all the other jurisdictions to something like Contact San Anselmo. The sources are the V-Parcel data from MarinMap (for the jurisdiction and the formatted address as well as the PropID), and the cadast\_zoning table from Marin Map for the zonings. The output is two shapefiles—these really copies of the same subset with different names because ArcGIS Online only allows searching on one field of a layer at a time. By using duplicate layers and configuring the outputs identically, two different fields, PropID and Formatted Address can be searched. This saves the trouble of using a geocoding service which in my experiments were much slower than searching a layer.



# What I Want:

- Big Old Search Box
- Search by parcel number or address
- Only search local addresses
- Auto fill suggestions
- Zoom to selection
- Highlight selection
- Popup box

# ESRI Geocoder

**Configure Web App**

Map Settings

Header Logo and links

Color Theme

Optional Tools

**Search Settings**

Enable search to allow users to find a location or data in the map. Configure the search settings to refine.

Enable search tool

Configure search tool

Enable	Source name	Edit
<input checked="" type="checkbox"/>	Esri World Geocoder	Edit
<input type="checkbox"/>	Parcel_Search	Edit

Select default source

Esri World Geocoder

Search all sources

**Esri World Geocoder**

Name  
Esri World Geocoder

Placeholder

Constrain search within map

Enable Suggestions

Maximum Suggestions  
Select

[Country Code](#)  
USA

SAVE CANCEL

**Zoning Edit Test**

LEGEND

111 morphew

- 111 Morphew Ave, Rowley, Town of, Massachusetts, USA
- 111 Morphew Ln, Browder, Kentucky, USA
- 111 Morphew Ln, Jefferson, North Carolina, USA
- 111 Morphew Rd, Hot Springs National Park, Arkansas, USA
- 111 Morphew Rd, Nashville, Arkansas, USA
- 111 Morphew St, Robbinsville, North Carolina, USA
- 111 Morphew St, San Rafael,

282 f



# Searching on Two Attribute Fields in the Same Feature Layer

**Parcel\_Search** ×

Name

Placeholder

Constrain search within map

Enable Suggestions

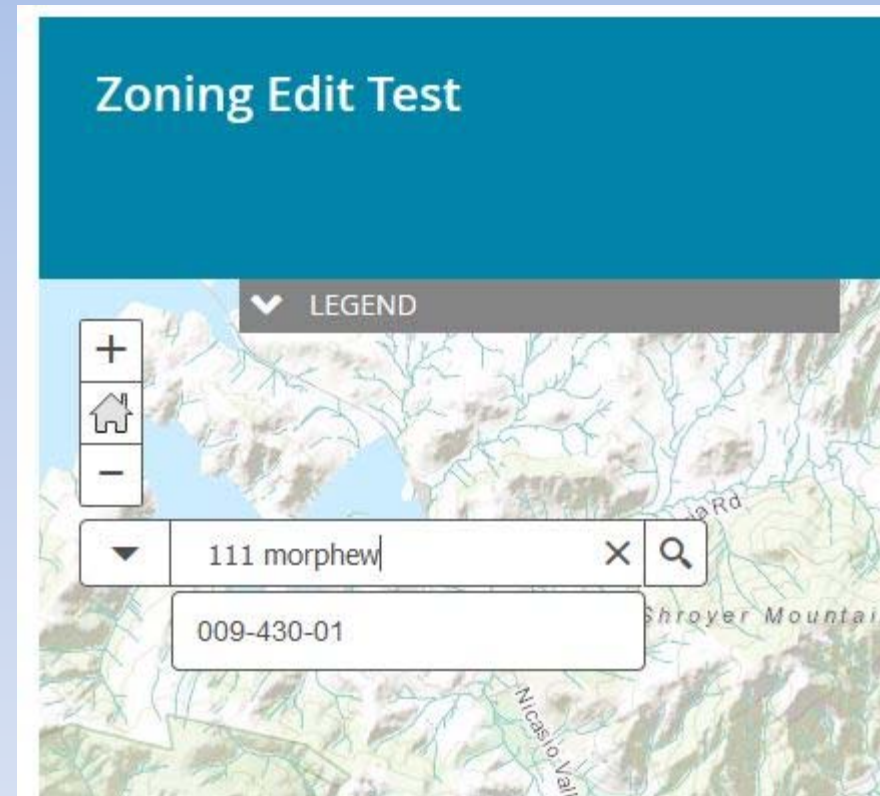
Maximum Suggestions  
15

Display suggestions using  
 Field  Template

Display field  
PropID

Search Fields  
FID  
OBJECTID  
PropID  
Formatted  
Jurisdicti  
Zonings

Exact Match



# Searching on Two Separate Feature Layers

Configure Web App

Map Settings

Header Logo and links

Color Theme

Optional Tools

Search Settings

Enable search to allow users to find a location or data in the map. Configure the search settings to refine

Enable search tool

Configure search tool

Enable	Source name	Edit
<input type="checkbox"/>	Esri World Geocoder	Edit
<input checked="" type="checkbox"/>	Parcel_Search	Edit
<input checked="" type="checkbox"/>	Address_Search	Edit

Select default source

Parcel\_Search

Search all sources

**Parcel\_Search**

Name  
Parcel\_Search

Placeholder

Constrain search within map

Enable Suggestions

Maximum Suggestions  
15

Display suggestions using

Field  Template

Display field  
PropID

Search Fields

- FID
- OBJECTID
- PropID
- Formatted
- Jurisdicti
- Zonings

Exact Match

SAVE CANCEL

Configure Web App

Map Settings

Header Logo and links

Color Theme

Optional Tools

Search Settings

Enable search to allow users to find a location or data in the map. Configure the search settings to r

Enable search tool

Configure search tool

Enable	Source name	Edit
<input type="checkbox"/>	Esri World Geocoder	Edit
<input checked="" type="checkbox"/>	Parcel_Search	Edit
<input checked="" type="checkbox"/>	Address_Search	Edit

Select default source

Parcel\_Search

Search all sources

**Address\_Search**

Name  
Address\_Search

Placeholder

Constrain search within map

Enable Suggestions

Maximum Suggestions  
15

Display suggestions using

Field  Template

Display field  
Formatted

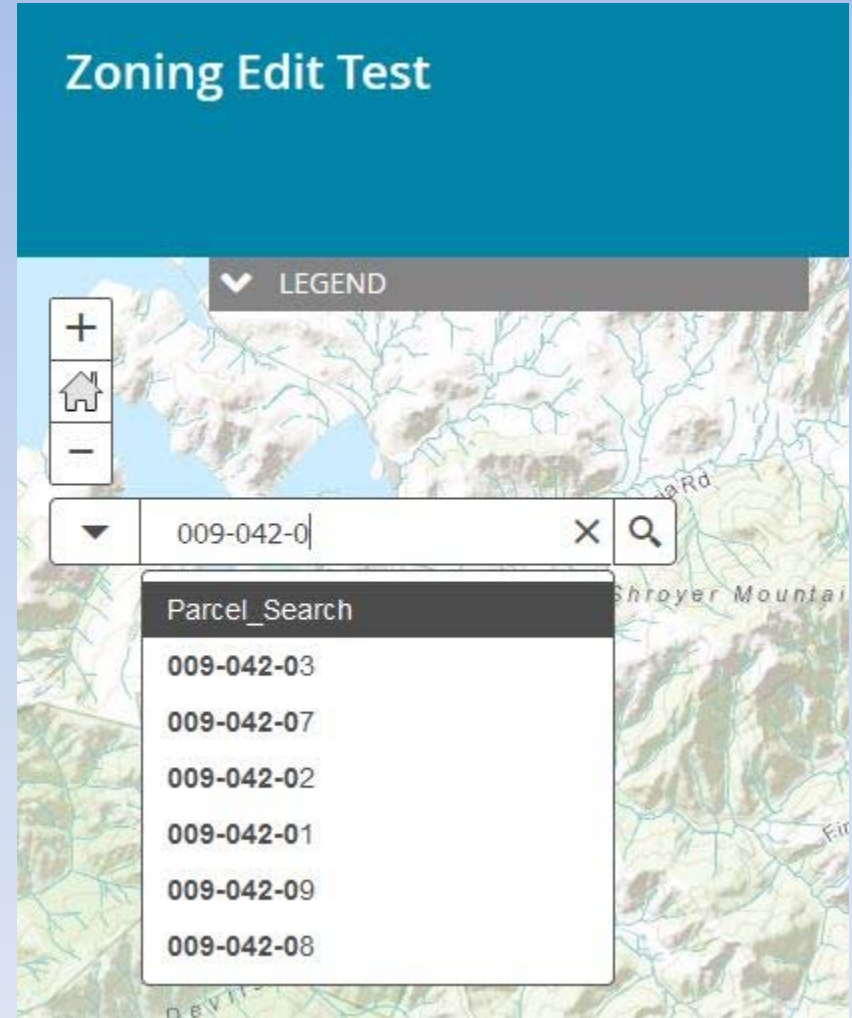
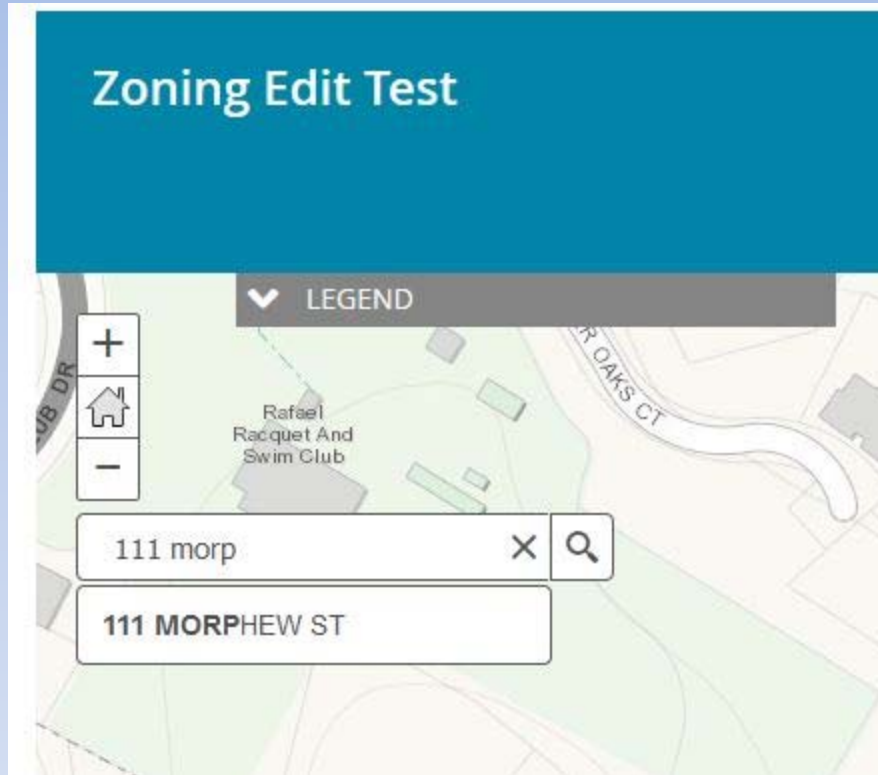
Search Fields

- FID
- OBJECTID
- PropID
- Formatted
- Jurisdicti
- Zonings

Exact Match

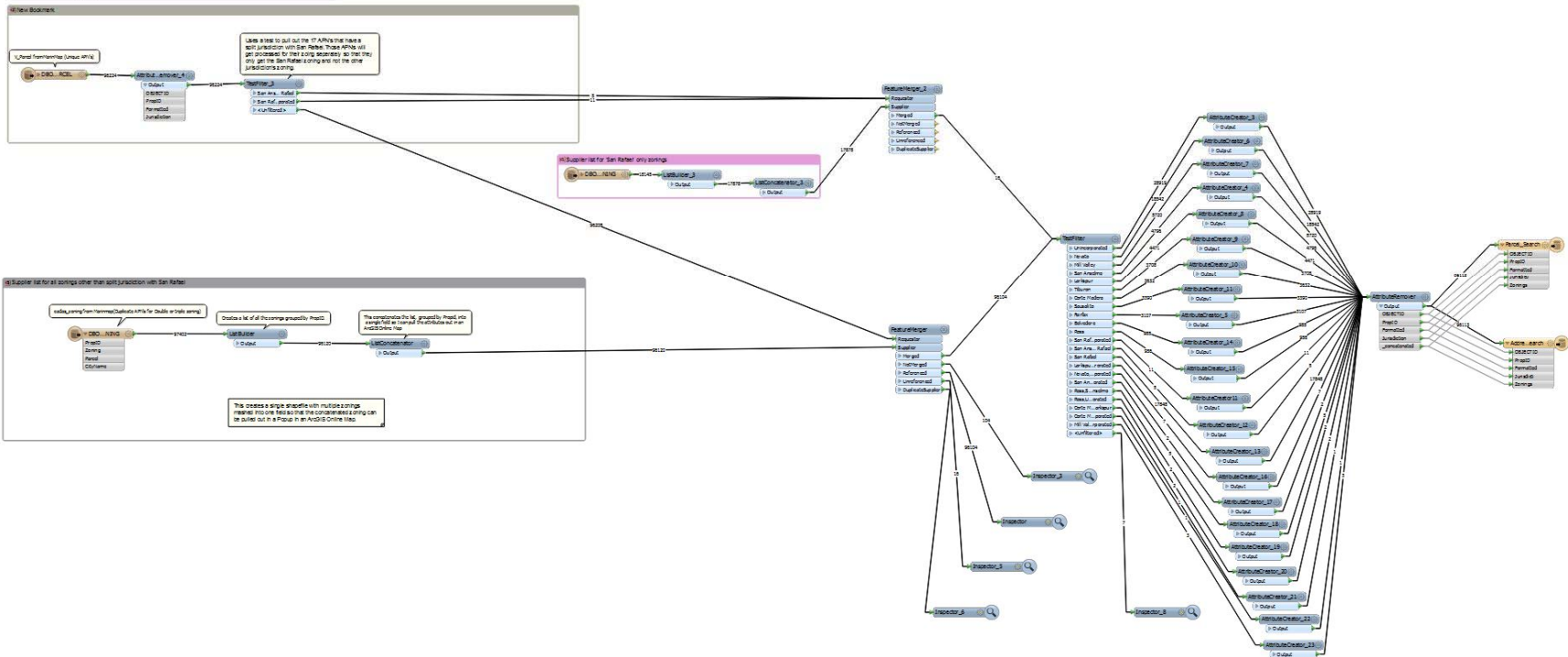
SAVE CANCEL

# Search Results



# Scripting tool to create denormalized shapefile (FME)

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# San Rafael Zoning App



# Contact Info

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- [zak.baron@cityofsanrafael.org](mailto:zak.baron@cityofsanrafael.org)