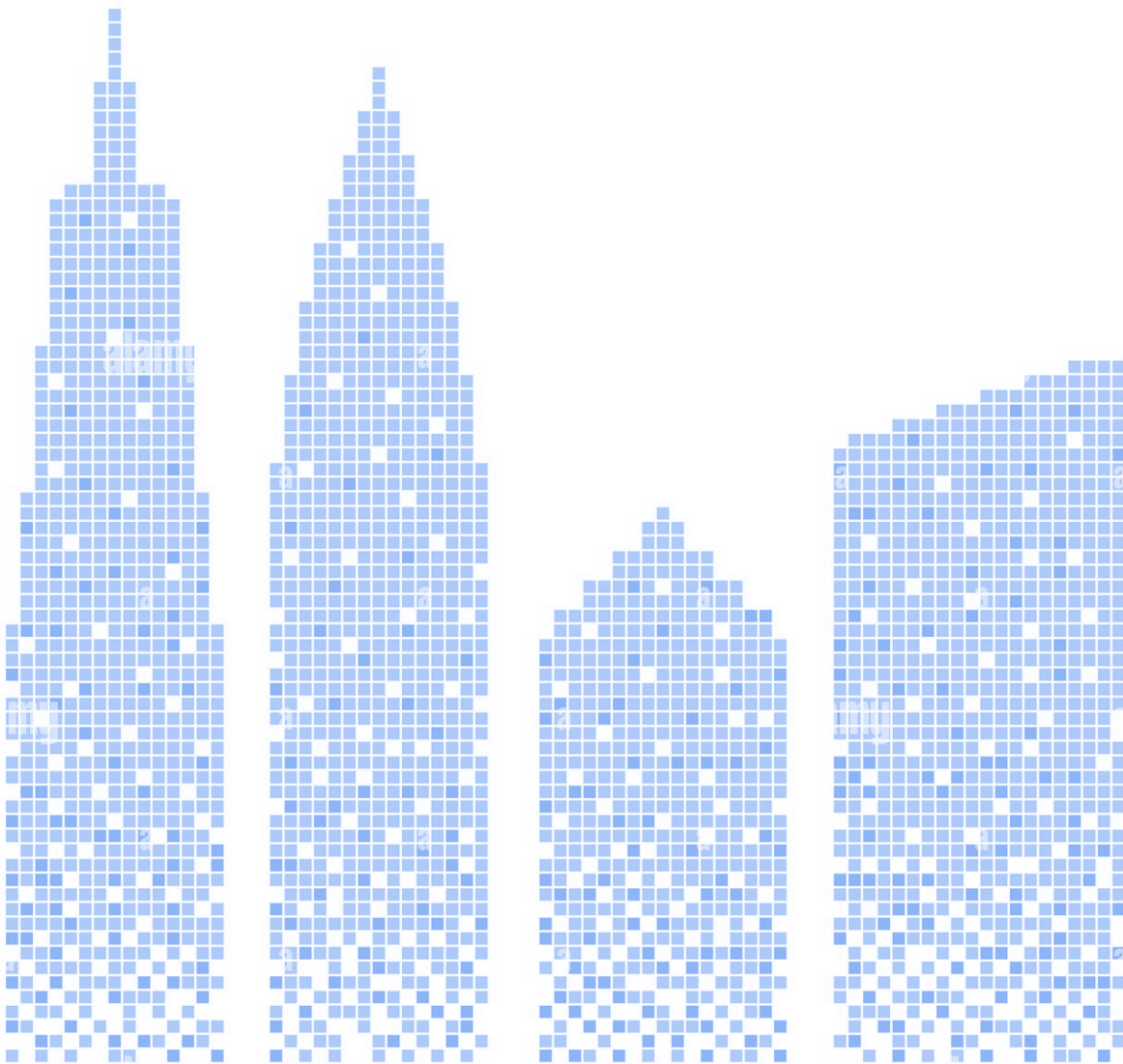


# City of Blue

GIS City Development Plan  
-2022-





# Contents

1. Project goal
2. Budget
  - A. Technology
  - B. Software
3. Summary
  - A. Geodatabase
  - B. Population
4. Maps
  - A. City Limits and Population
  - B. Land Use and Zoning
  - C. Traffic
  - D. Municipalities
  - E. Businesses
5. Conclusion
6. Discussion

# SECTION 1. PROJECT GOAL

- Develop GDB for City of Blue, including project boundary, zoning, land use, transportation, and population data by May 18, 2022.
- Proposed site location is in San Bernardino County, CA.
- Proposed budget is \$80k for hardware and equipment and \$10k for software and data purchases.
- Features must include utilities, municipalities and agencies, roads, census data, and natural features.
- Features must correspond to zone type.

## SECTION 2. BUDGET

### 2A: Technology

Item	Brand	Quantity	Price per Unit	Price
PC	HP Pavilion	10	\$1,200	\$12,000
UAV	DJI Phantom 4 RTK	2	\$8,000	\$16,000
Plotter Printer	HP Designjet	2	\$5,000	\$10,000
Tablet	Apple iPad	5	\$300	\$1,500
GPS Unit	Trimble Geo 7X	3	\$3,500	\$10,500
Digital Camera	Olympus TG6	5	\$500	\$2,500

### 2B: Software

Item	Brand	Quantity	Price per Unit	Price
GIS Suite	ESRI ArcGIS + Extensions			\$15,000
UAV Software	DJI	2	-	-
Aerial Data Imagery	EagleView			\$20,000
<b>Total Budget</b>				<b>\$87,500.00</b>

## SECTION 3. SUMMARY

### 3A: Geodatabase

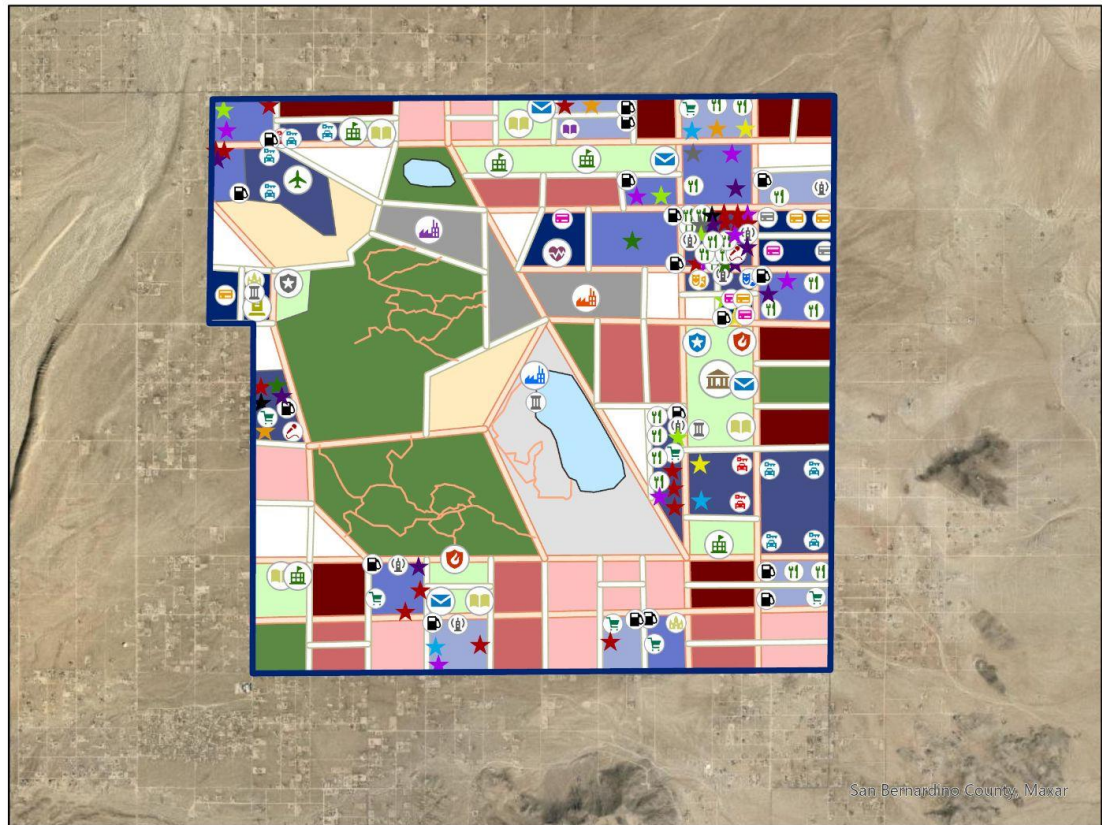
- Coordinate System: WGS 1984 Web Mercator (Auxiliary Sphere)
- Coordinates: 34.2307°N, 116.3442°W
- Project Area: 37.8115 mi<sup>2</sup>.

### 3B: Population

- Population: 11,813 People
- Population Density: 312.4182 People per mi<sup>2</sup>.

## SECTION 4. MAPS

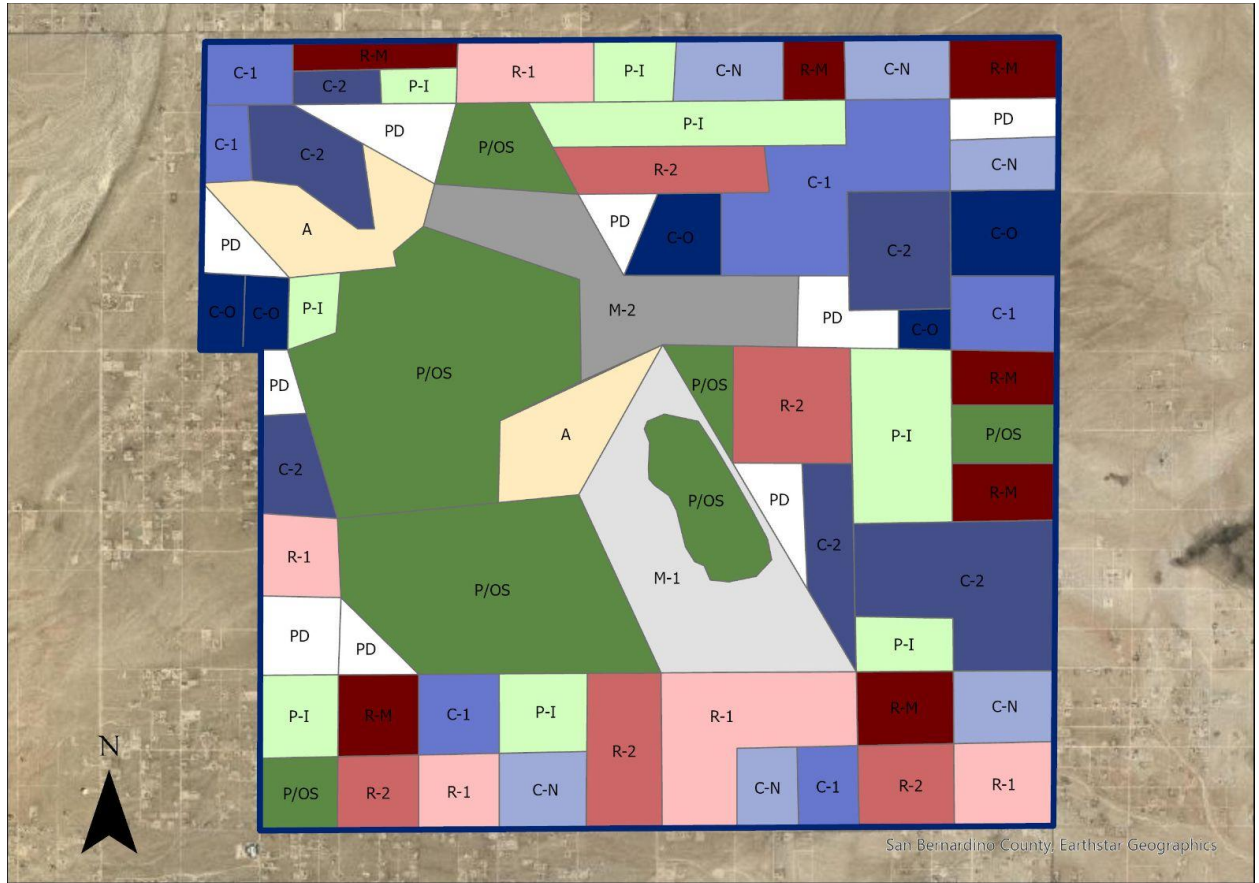
### 4A: Overview



## Legend

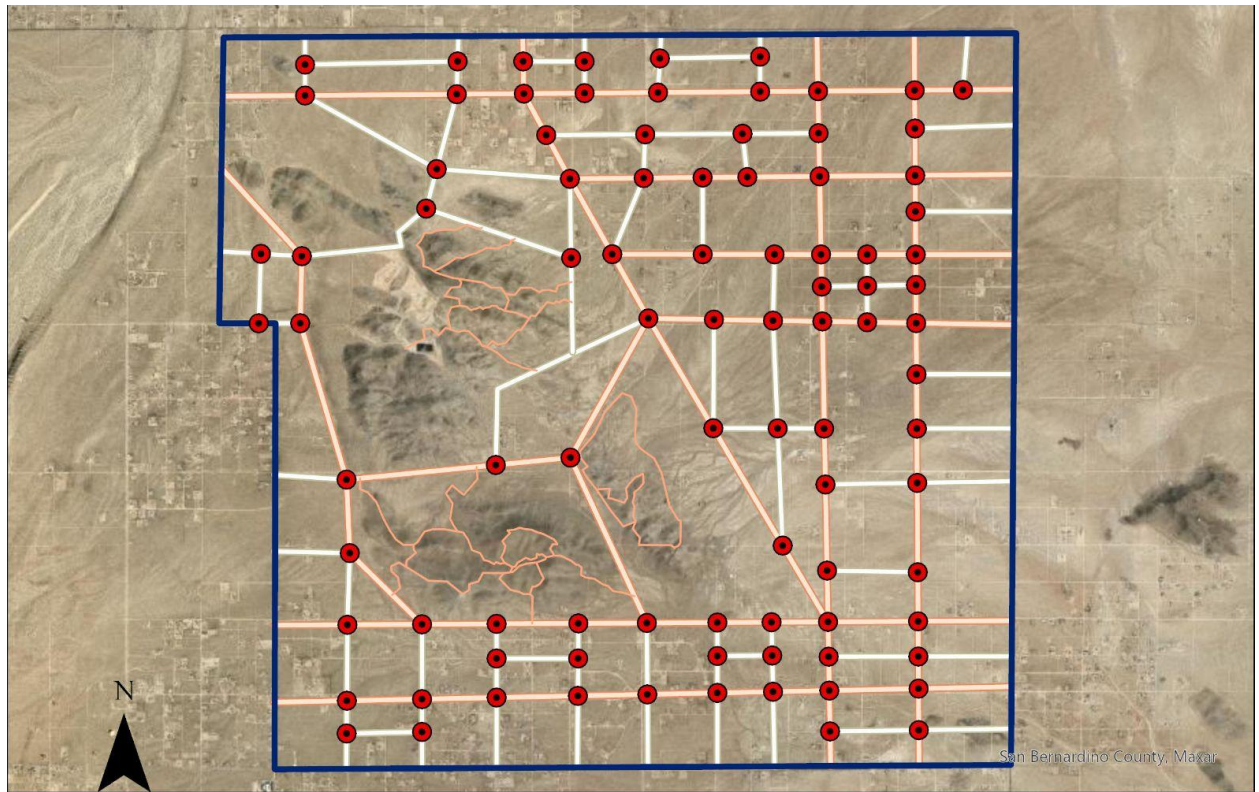
City Boundary	gas station	library	Hiking Trail
<b>Businesses</b>	car dealership	police station	<b>COB_Zones</b>
Type	auto repair	post office	Type
grocery store	book store	prison	A
apparel	bowling alley	school	P-I
computer store	church	town hall	P/OS
furniture store	movie theater	power generation facility	PD
jewelry store	museum	waste treatment facility	M-1
home store	music store	water treatment facility	M-2
salon	phone store	Water	C-N
shoe store	<b>Municipalities</b>	<b>COB_Roads</b>	C-1
thrift store	Type	Type	C-2
art store	airport	Small	C-0
video game store	cemetery	Large	R-1
dentist office	fire station	Sidewalk	R-2
attorney firm	hospital		R-3
therapy office			
restaurant			

## 4B: Zoning



## 4C: Transportation





● COB\_Intersections

— COB\_Boundary

COB\_Roads

Type

— Small

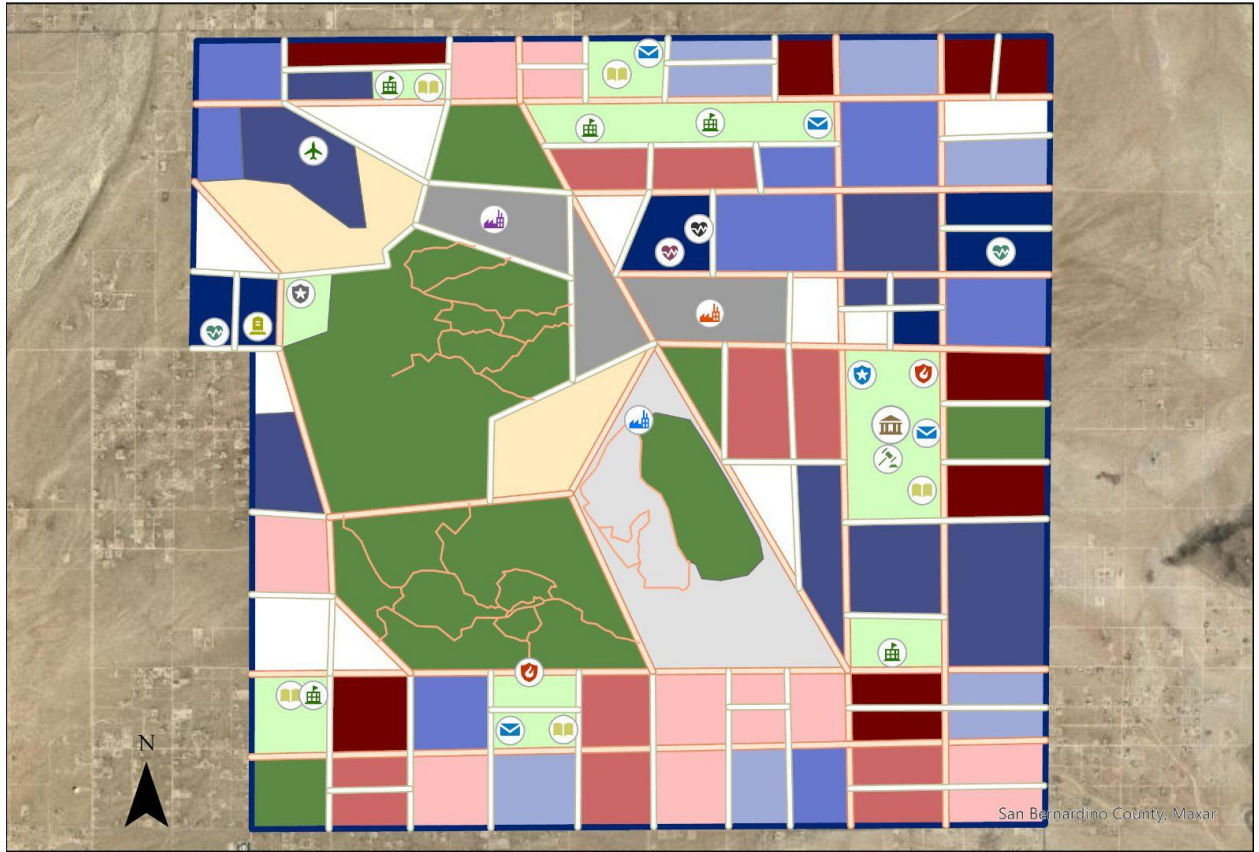
— Large

— Sidewalk

— Hiking Trail


0 1 2 4 Miles

## 4D: Features - Municipalities








0 1 2 4 Miles

### Municipalities

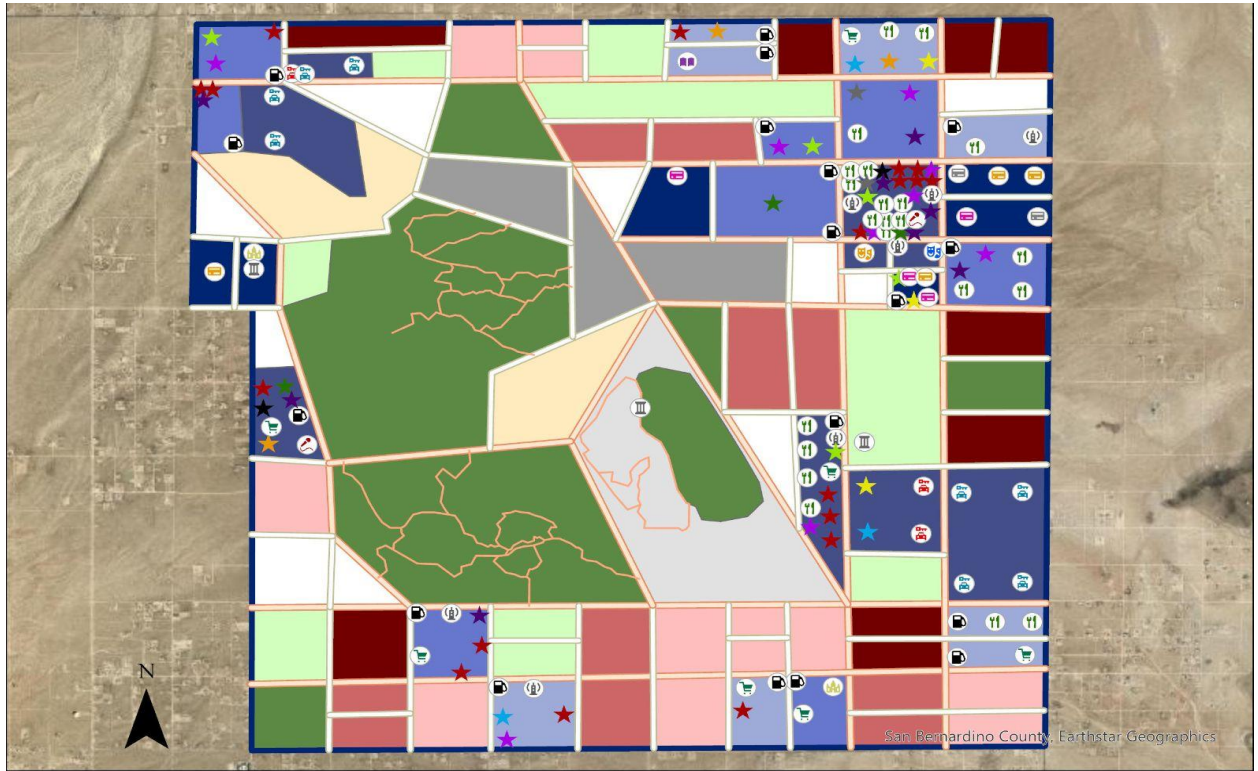
-  airport
-  cemetery
-  fire station
-  hospital
-  emergency room

-  clinic
-  library
-  police station
-  post office
-  prison
-  school

-  town hall
-  court
-  power generation facility
-  waste treatment facility
-  water treatment facility

## 4E: Features - Businesses





0 1 2 4 Miles

### Businesses

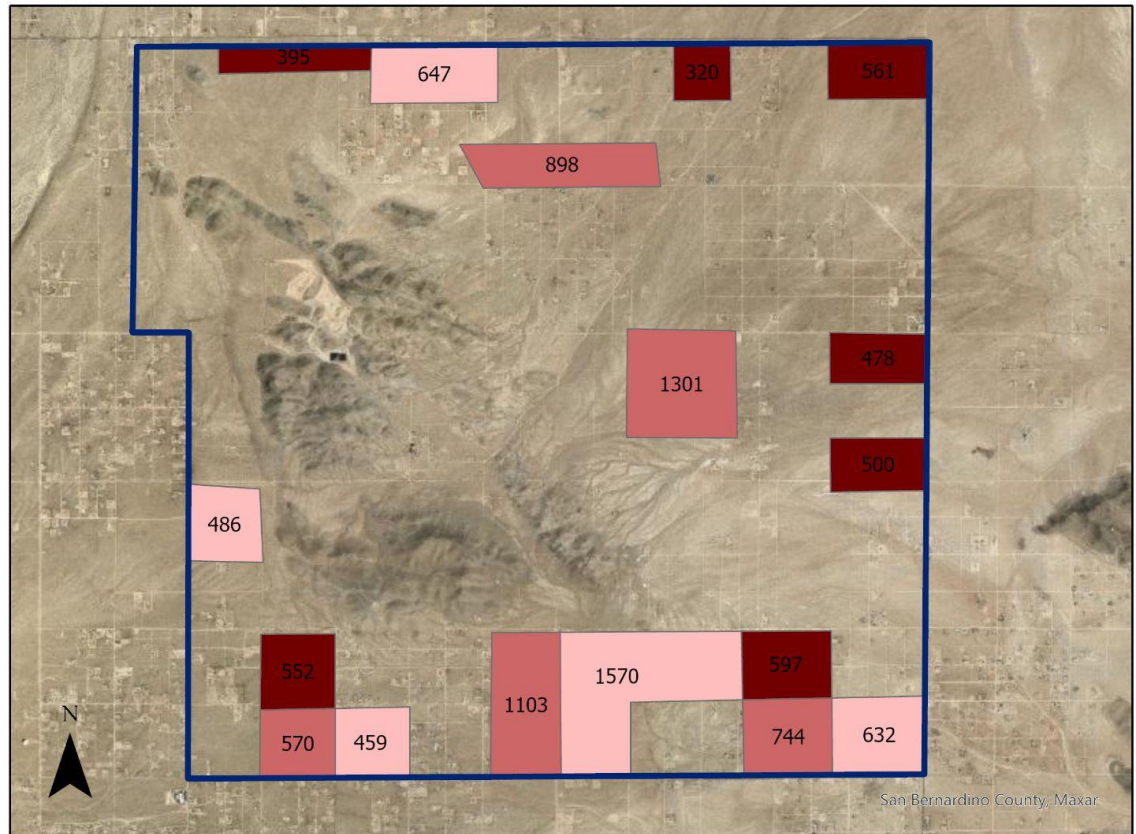
- grocery store
- apparel
- computer store
- furniture store
- jewelry store

- home store
- salon
- shoe store
- thrift store
- art store
- video game store
- dentist office

- attorney firm
- therapy office
- restaurant
- gas station
- car dealership
- auto repair
- book store

- bowling alley
- church
- movie theater
- museum
- music store
- phone store

## 4F: Population



Number of People



Zone

- Single Family (R-1)
- Two Family (R-2)
- Multi Family (R-3)

## SECTION 5. CONCLUSION

- The City of Blue incorporates suburban living with natural features and an urban center.
- Residential zones consist of the outer areas of the city, while remaining equally close to denser commercial areas as well as natural features.
- Natural features include hills with hiking trails and agricultural regions in the west, parks throughout, and a

A blue geometric graphic consisting of a large right-angled triangle with a smaller right-angled triangle cut out of its bottom-left corner, creating a stepped effect.

reservoir in the city center.

- The commercial center of the city includes a mall and corporate complex in the north-east, immediately north of the city hall, and strip-mall to its west.
- Neighborhood commercial areas include local shopping centers, interspersed with schools and other public infrastructure.

## SECTION 6. DISCUSSION

- GIS Software used: ESRI ArcGIS Desktop
- This project was an insightful lesson on the lengths a city-planner must go to design a city and its components to maintain functionality and form.
- Improvements could be made in verifying the corresponding feature with zone classification, as well as rigorously comparing population estimates to actual regional averages.