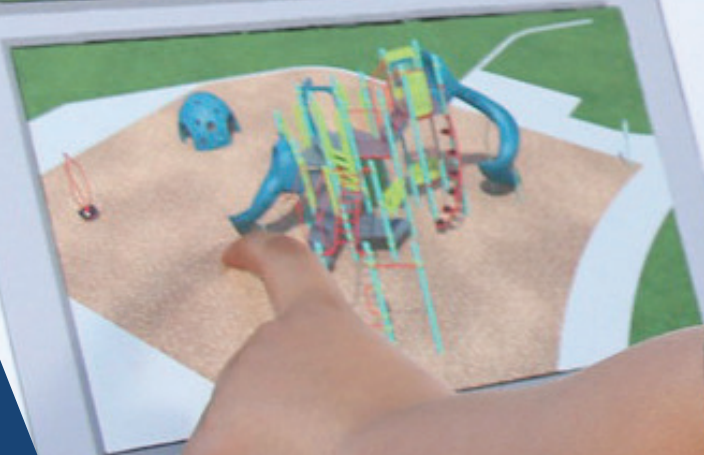


## CHAPTER 5

# Level of Service and Mapping

R EAST MINI PARK  
PLAYGROUND CONCEPTS



OPTION 1



# CHAPTER 5 - LEVEL OF SERVICE AND MAPPING

## LEVEL OF SERVICE STANDARDS - CURRENT

Level of Service (LOS) standards are guidelines that define service areas based on population that support investment decisions related to parks, facilities, and amenities. LOS standards can and will change over time; as the population increases, the need to acquire additional land and develop parks also increases as will the costs to do so.

The consultant team evaluated LOS standards using a combination of local, regional, and national resources, including:

- ▲ General Plan 2016 Policy Document; Parks and Recreation Element
- ▲ National Recreation and Park Association (NRPA) guidelines
- ▲ Recreation activity participation rates for the U.S. and the City as reported by the SFIA 2020 Study of Sports and ESRI
- ▲ Community and stakeholder input and general observations. This information allowed standards to be customized to the Chandler Parks system

These resources provide LOS guidelines based on population to inform and support investment decisions related to parks, facilities and amenities. When coupled with local input on the needs of the Chandler community, these standards help to identify park and facility/amenity gaps and surpluses. The findings of the LOS standards analysis are summarized below:

- ▲ Chandler currently provides a total LOS, including Homeowner Association neighborhood parks of **8.22 acres of developed parks per 1,000 residents** based on the City’s current population. The City of Chandler provides approximately 65% of the total acreage.
- ▲ In order to create a realistic and fiscally sustainable parks system, it is recommended that the future level of service standard for developed parks be 8.5 acres per 1,000 population.

Recreation Component	2020 Inventory				Service Levels				2035 Standards (City Contribution Level)			City Contribution Level - Full Build Out	
	City Inventory	HOA/Other Inventory	Total Inventory	Current % of Inventory Provided by City	Current Service Level		Recommended Service Levels		% of Future Inventory Recommended to be Provided by City to Meet Needs	Additional Facilities Recommended	% of Future Inventory Recommended to be Provided by City to Meet Needs	Additional Facilities Needed (Chandler Contribution)	
<b>DEVELOPED PARKS</b>													
NEIGHBORHOOD PARKS	385.47	801.10	1,186.57	32%	4.26 acres per 1,000	4.50 acres per 1,000	1,000	20%	33 Acre(s)	20%	94 Acre(s)		
COMMUNITY PARKS	417.12		417.12	100%	1.50 acres per 1,000	1.55 acres per 1,000	1,000	100%	48 Acre(s)	100%	153 Acre(s)		
REGIONAL PARKS	211.10		211.10	100%	0.76 acres per 1,000	1.80 acres per 1,000	1,000	100%	329 Acre(s)	100%	451 Acre(s)		
SPECIAL USE PARKS	472.56		472.56	100%	1.70 acres per 1,000	0.65 acres per 1,000	1,000	100%	- Acre(s)	100%	- Acre(s)		
<b>Total</b>	<b>1,486.25</b>	<b>801.10</b>	<b>2,287.35</b>	<b>65%</b>	<b>8.22 acres per 1,000</b>	<b>8.50 acres per 1,000</b>	<b>1,000</b>		<b>409 Acre(s)</b>		<b>698 Acre(s)</b>		
<b>OPEN SPACE AND LINEAR PARK</b>													
LINEAR PARKS (PATHWAYS)	80.55		80.55	100%	0.29 acres per 1,000	NA acres per 1,000	1,000	100%	NA Acre(s)	100%	NA Acre(s)		
<b>OUTDOOR AMENITIES</b>													
BASEBALL FIELD (LIGHTED)	20.00		20.00	100%	1.00 Field per 13,915	1.00 Field per 13,000	13,000	100%	3 Field	100%	8 Field		
MULTIUSE FIELD (LIGHTED)	22.00		22.00	100%	1.00 Field per 12,650	1.00 Field per 10,000	10,000	100%	8 Field	100%	15 Field		
SOFTBALL FIELD (LIGHTED)	9.00		9.00	100%	1.00 Field per 30,923	1.00 Field per 25,000	25,000	100%	3 Field	100%	6 Field		
CRICKET FIELD	1.00		1.00	100%	1.00 Field per 278,303	1.00 Field per 150,000	150,000	100%	1 Field	100%	1 Field		
BASKETBALL COURT (LIGHTED)	40.00	36.00	76.00	53%	1.00 Court per 3,662	1.00 Court per 4,500	4,500	50%	- Court	50%	3 Court		
PICKLEBALL COURT	9.00	6.00	15.00	60%	1.00 Court per 18,554	1.00 Court per 12,000	12,000	50%	5 Court	50%	8 Court		
TENNIS COURT (LIGHTED)	25.00	17.00	57.00	44%	1.00 Court per 6,626	1.00 Court per 7,000	7,000	70%	1 Court	70%	7 Court		
VOLLEYBALL COURT (SAND/GRASS)	35.00	25.00	60.00	58%	1.00 court per 4,638	1.00 court per 7,500	7,500	50%	- Court	50%	- Court		
DOG PARK	4.00	4.00	8.00	50%	1.00 Site per 34,788	1.00 Site per 30,000	30,000	50%	1 Site	50%	2 Site		
PLAYGROUNDS	95.00	240.00	335.00	28%	1.00 Site per 831	1.00 Site per 1,050	1,050	25%	- Site	25%	4 Site		
RAMADA	155.00	321.00	476.00	33%	1.00 Site per 585	1.00 Site per 750	750	33%	- Site	33%	5 Site		
GOLF COURSE (18 holes)	1.00	6.50	7.50	13%	1.00 Course per 37,107	1.00 Course per 50,000	50,000	0%	- Course	0%	- Course		
DISC GOLF COURSE	1.00		1.00	100%	1.00 Course per 278,303	1.00 Course per 150,000	150,000	100%	1 Course	100%	1 Course		
BIKE PARK/SKATEPARK/PUMP TRACK	2.00		2.00	100%	1.00 Site per 139,152	1.00 Site per 100,000	100,000	100%	1 Site	100%	2 Site		



- ▲ With the recommended level of service to 8.5 acres per 1,000 population, the City will need to **add a total of 409 developed park acres to the system by 2035 to keep up with the projected population growth**. Additional park acreage is needed in every park classification, except special use parks.
- ▲ The City currently meets 2035 standards for five amenities: basketball courts, sand/grass volleyball courts, playgrounds, ramadas and golf courses.
- ▲ The City is deficient in meeting standards in several amenities, most notably: Athletic fields (multi-purpose, diamond, cricket), pickleball and tennis courts.
  - ◆ To meet athletic field needs, the City should consider the development of a regional park.

Based on a thorough review of the parks system and public input, it is recommended that the City pursue further development of specific parks and recreation amenities that meet the needs listed in the High Priority Program and Facility Rankings and address the gaps per park type to increase the current level of service standard for the projected population in 2035. Further park acreage and amenity needs will be required beyond 2035 as the City reaches its build-out population.

The table on the previous page details the current and recommended LOS for the Chandler Parks system.

## LEVEL OF SERVICE STANDARDS - FUTURE

As the City develops over the next decade, a number of future developed parks or strategic changes to parks have been identified. In working with the Community Services Department, these future and strategic changes to parks are summarized to the right:

The table identifies an additional 159.27 acres that, when developed, will be added to the City's parks system. Future parks include Lantana, Homestead North, and Mesquite Grove. The development of a new Regional Park is also recommended.

Recreation Component	STRATEGIC CHANGES TO EXISTING PARKS	FUTURE PLANNED PARKLAND DEVELOPMENT
<b>PARKS AND SPECIAL USE FACILITIES</b>		
NEIGHBORHOOD PARKS		7.60
COMMUNITY PARKS		53.27
REGIONAL PARKS	235.00	98.40
SPECIAL USE PARKS	(235.00)	
<b>Total</b>	<b>-</b>	<b>159.27</b>

## PLANNED FUTURE PARKS IMPACT ON LEVEL OF SERVICE NEEDS

To understand the impact that the future parks will have on the City's ability to meet the LOS standard needs shown on the previous table, a comparative LOS table was developed as shown below.

Recreation Component	Inventory				2035 Needs BEFORE STRATEGIC CHANGES and FUTURE PLANNED PARKLAND DEVELOPMENT		2035 Needs AFTER STRATEGIC CHANGES and FUTURE PLANNED PARKLAND DEVELOPMENT	
	Current Inventory	Strategic Changes to Existing Park System	Future Planned Park Development	Total Inventory After Implementation	Meet Standard/ Need Exists	Additional Facilities/ Amenities Needed	Meet Standard/ Need Exists	Additional Facilities Recommended
<b>PARKS AND SPECIAL USE FACILITIES</b>								
NEIGHBORHOOD PARKS	1,186.57		7.60	1,194.17	Need Exists	33 Acre(s)	Need Exists	13 Acre(s)
COMMUNITY PARKS	417.12		53.27	470.39	Need Exists	48 Acre(s)	Meets Standard	- Acre(s)
REGIONAL PARKS	211.10	235.00	98.40	544.50	Need Exists	329 Acre(s)	Meets Standard	- Acre(s)
SPECIAL USE PARKS	472.56	(235.00)		237.56	Meets Standard	- Acre(s)	Meets Standard	- Acre(s)
<b>Total</b>	<b>2,287.35</b>	<b>-</b>	<b>159.27</b>	<b>2,446.62</b>	<b>Meets Standard</b>	<b>409 Acre(s)</b>	<b>Need Exists</b>	<b>13 Acre(s)</b>

The development of the future parks has an impact on four park classification categories and is summarized as follows:

- ▲ **Neighborhood Parks:** The development of 7 neighborhood park acres will reduce the City’s neighborhood park acreage needs in 2035 by 35% — from 20 acres needed to 13 acres needed.
- ▲ **Community Parks:** The development of 53.27 acres of future community parks will fully satisfy the City’s 2035 community park acreage needs.
- ▲ **Regional Parks:** The development of 333.4 acres of future regional parks will fully satisfy the City’s 2035 regional park acreage needs.

## TECHNICAL NEEDS ANALYSIS KEY FINDINGS

### ***SERVICE AREA EQUITY MAPPING – CURRENT INVENTORY***

The Chandler Parks system has evolved over time and distribution of sites and facilities throughout the community is reflected in the current site locations.

To further illustrate the distribution of current park types and amenities in the City, an equity-mapping analysis was conducted to show the service areas and the gaps in service of the current inventory of park types and amenities based on the recommended LOS standard. The recommended standard established per 1,000 residents per acre of park type or number of residents per type of amenity are also indicated in the map title.

The service area is calculated by the quantity of inventory of each site extended in a uniform radius until the population served by the recommended standard is reached. Shaded areas indicate the extent of the service area based on recommended inventories; unshaded areas indicate locations that would remain outside of the standard service area for each park type or park asset. Unshaded areas are not always the most appropriate location for future parks or park assets. They only represent areas that might be more thoroughly reviewed for potential additional facilities.

Although there are occasions when the service area may extend beyond the City’s borders, only Chandler’s population was utilized for calculating service area standards in this analysis.

Community-wide maps of existing park types or classifications identified in this Master Plan, as well as the major park amenities, are provided in the pages that follow. The maps on the following pages identify existing and future (where possible):

- ▲ Neighborhood parks
- ▲ Community parks
- ▲ Regional parks
- ▲ Special use parks
- ▲ Baseball fields (lighted)
- ▲ Multi-use fields (lighted)
- ▲ Softball fields (lighted)
- ▲ Cricket fields
- ▲ Basketball courts (lighted)
- ▲ Pickleball courts
- ▲ Tennis courts (lighted)
- ▲ Volleyball courts (sand/grass)
- ▲ Dog parks
- ▲ Playgrounds
- ▲ Ramadas
- ▲ Disc golf courses
- ▲ Bike parks/skate parks/pump tracks

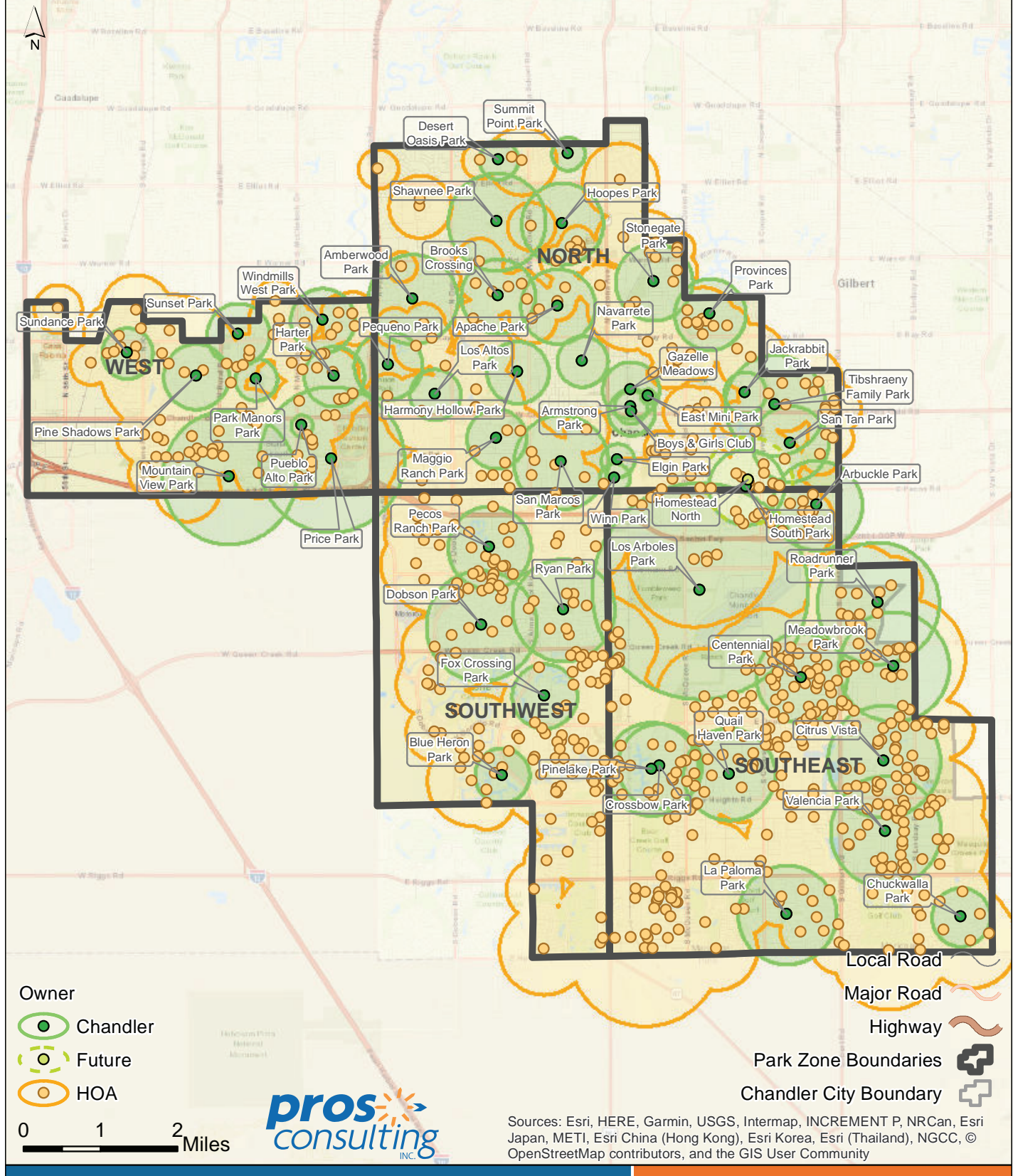


# NEIGHBORHOOD PARKS

## Neighborhood Parks

Recommended Standard of 3.5 Acres per 1,000 People

Chandler, Arizona  
Parks and Recreation  
Equity Maps

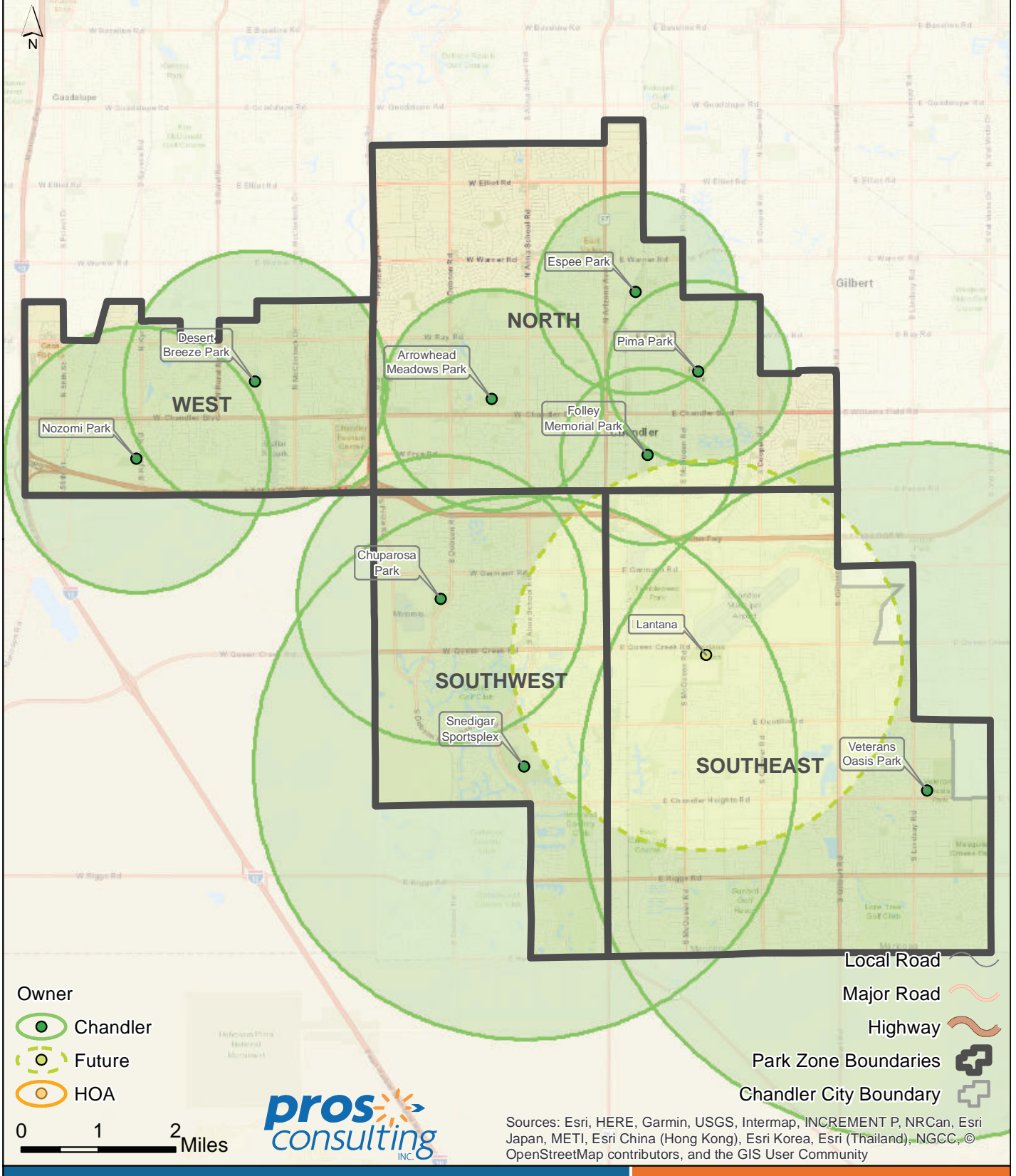




COMMUNITY PARKS

Chandler, Arizona  
Parks and Recreation  
Equity Maps

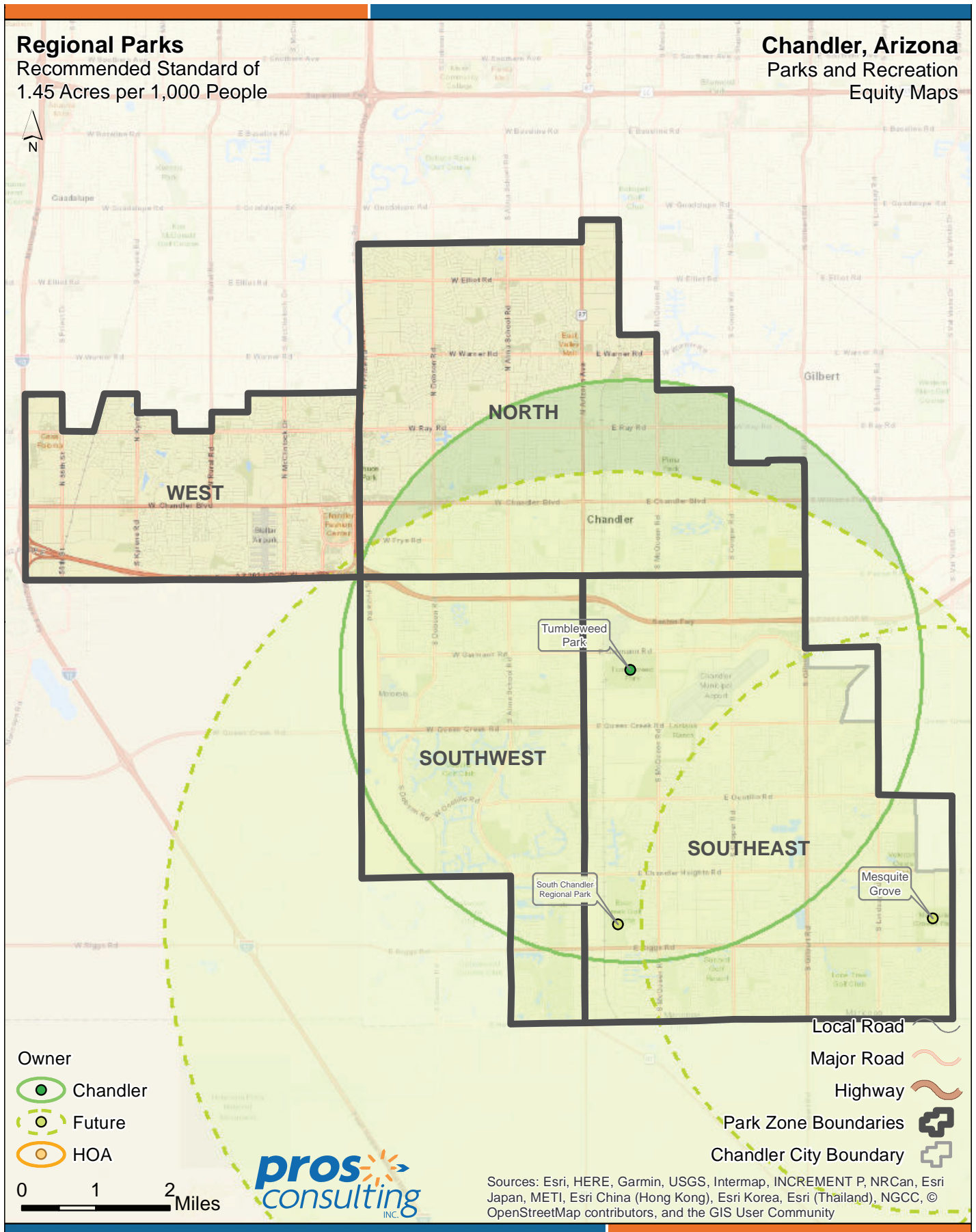
Community Parks  
Recommended Standard of  
1.25 Acres per 1,000 People



# REGIONAL PARKS

**Regional Parks**  
Recommended Standard of  
1.45 Acres per 1,000 People

**Chandler, Arizona**  
Parks and Recreation  
Equity Maps

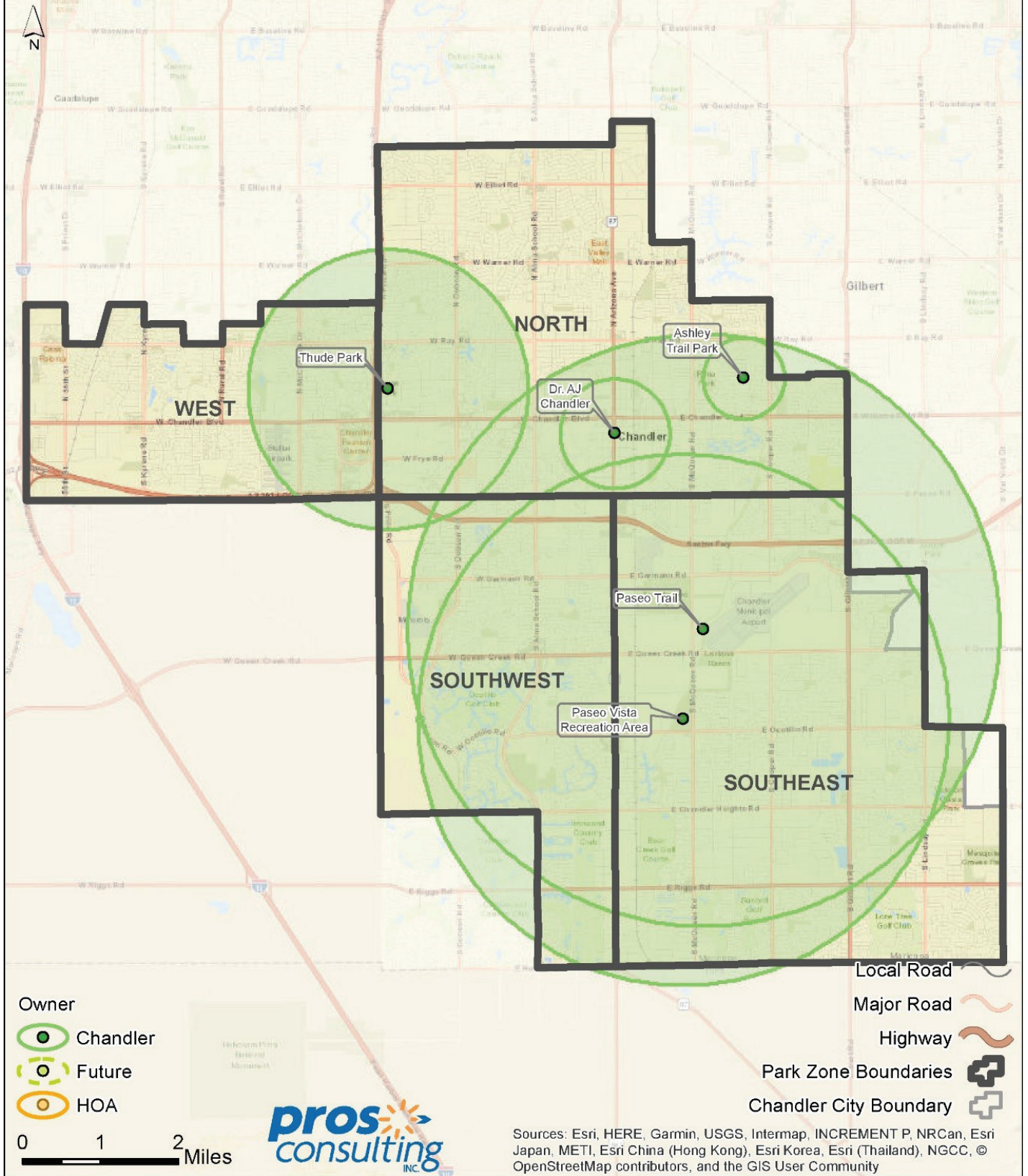




**SPECIAL-USE PARKS**

**Chandler, Arizona**  
Parks and Recreation  
Equity Maps

**Special Use Parks**  
Recommended Standard of  
0.65 Acres per 1,000 People



- Owner**
- Chandler
  - Future
  - HOA

- Local Road
- Major Road
- Highway
- Park Zone Boundaries
- Chandler City Boundary

0 1 2 Miles



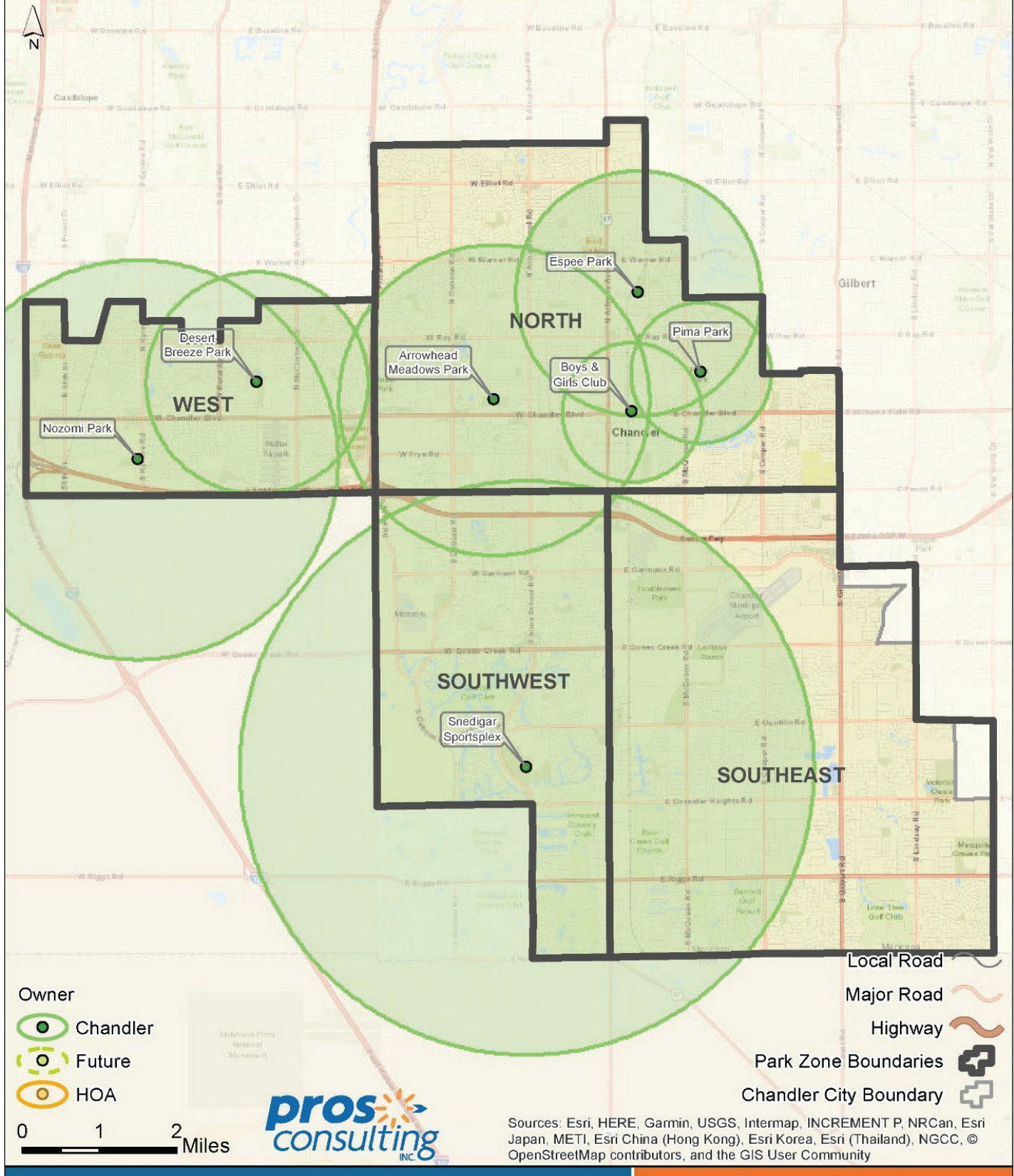
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community



# BASEBALL FIELDS LIGHTED

**Baseball Field (Lighted)**  
 Recommended Standard of  
 1 Field per 13,000 People

**Chandler, Arizona**  
 Parks and Recreation  
 Equity Maps

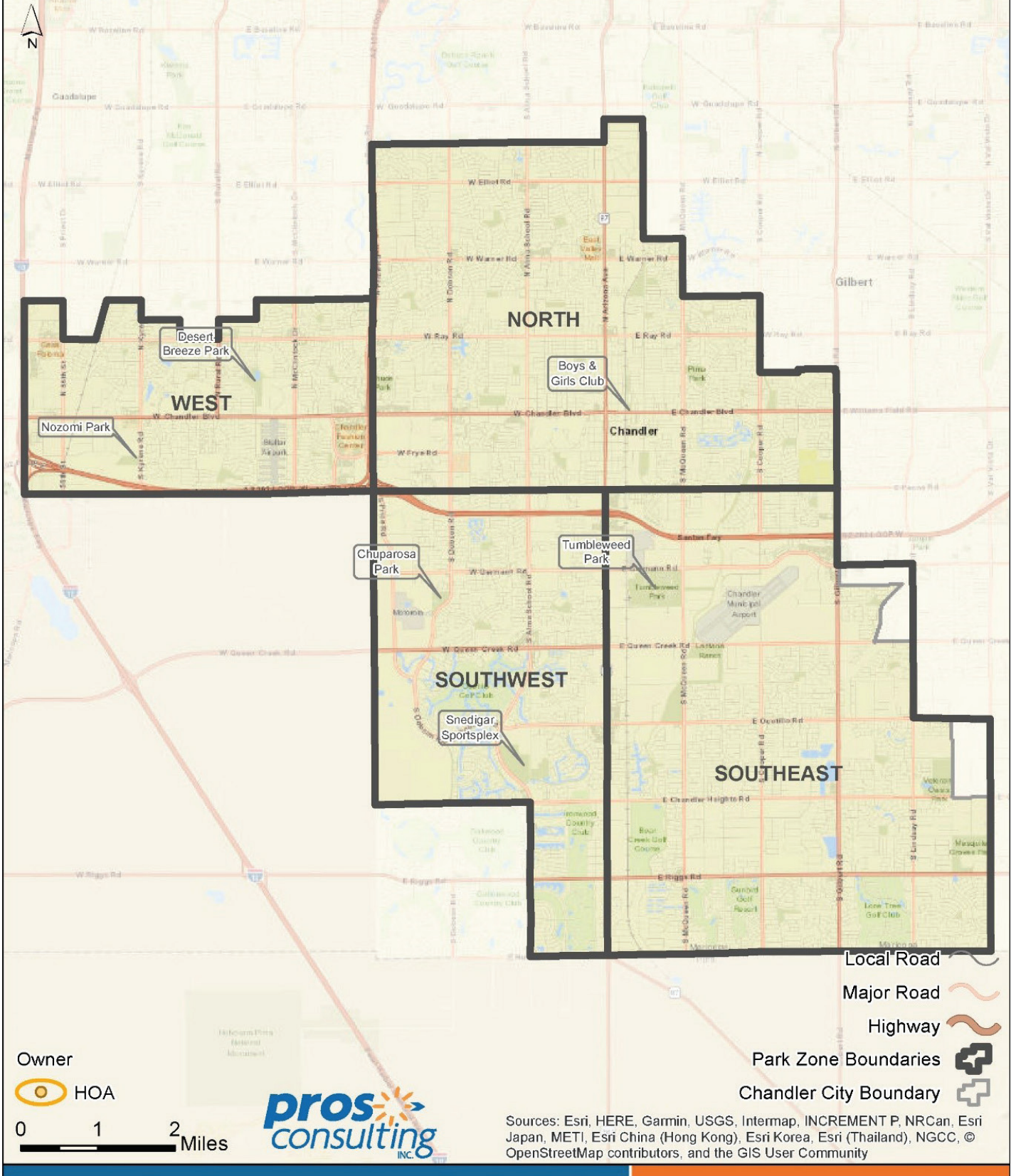




**MULTI-USE FIELDS LIGHTED**

**Chandler, Arizona**  
Parks and Recreation  
Equity Maps

**Multise Field (Lighted)**  
Recommended Standard of  
1 Field per 10,000 People

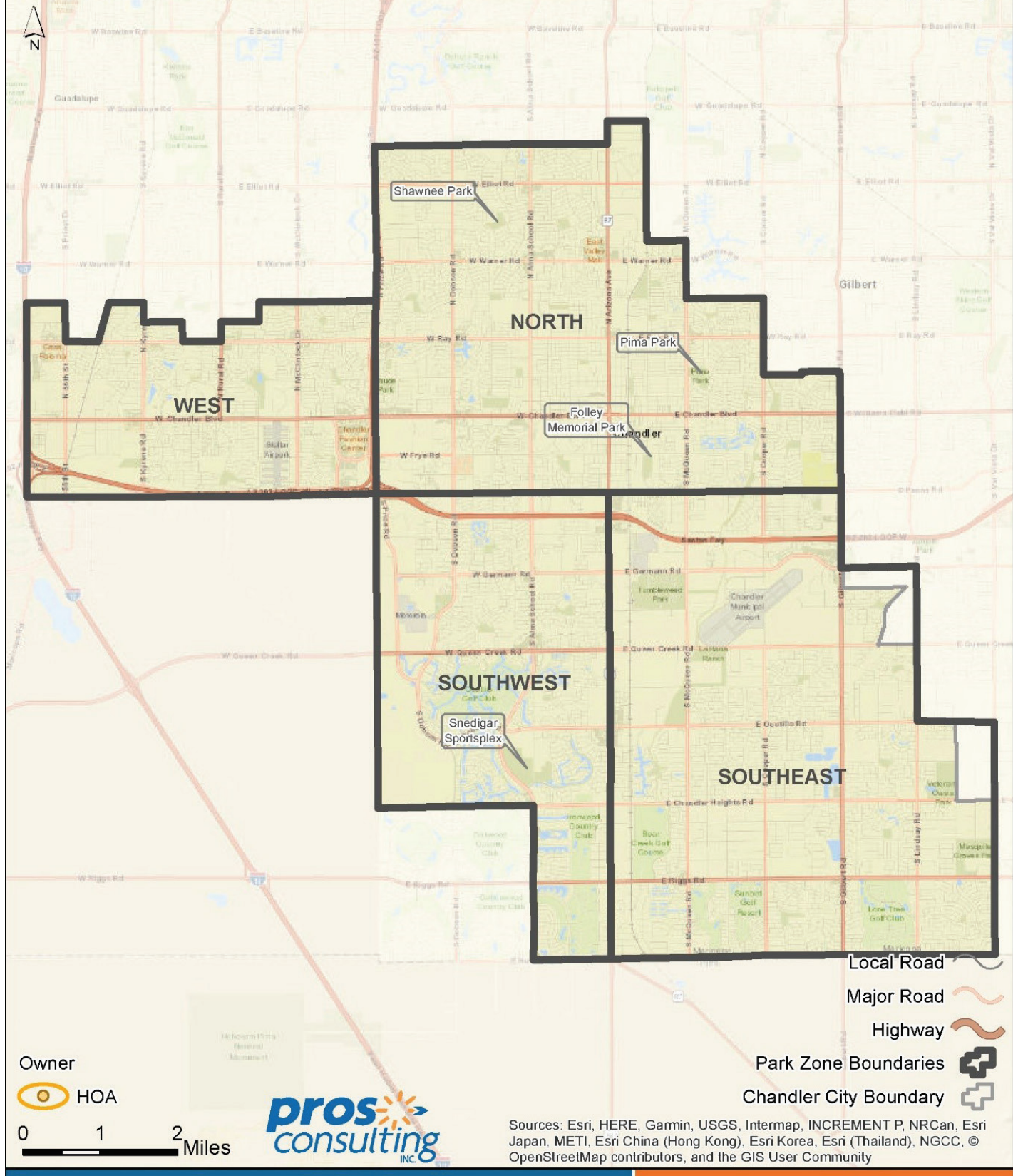




# SOFTBALL FIELDS LIGHTED

**Softball Field (Lighted)**  
Recommended Standard of  
1 Field per 25,000 People

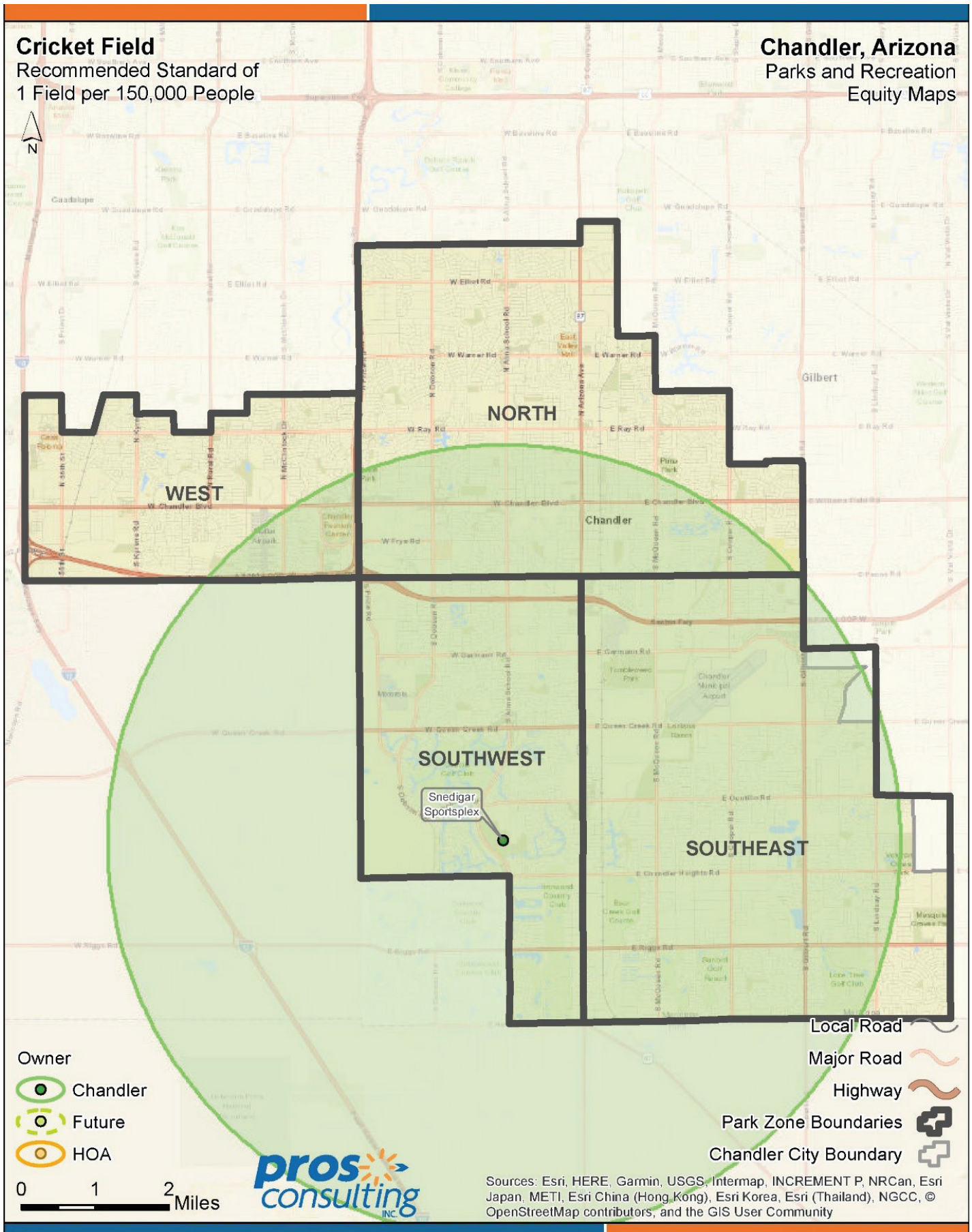
**Chandler, Arizona**  
Parks and Recreation  
Equity Maps



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community



# CRICKET FIELDS



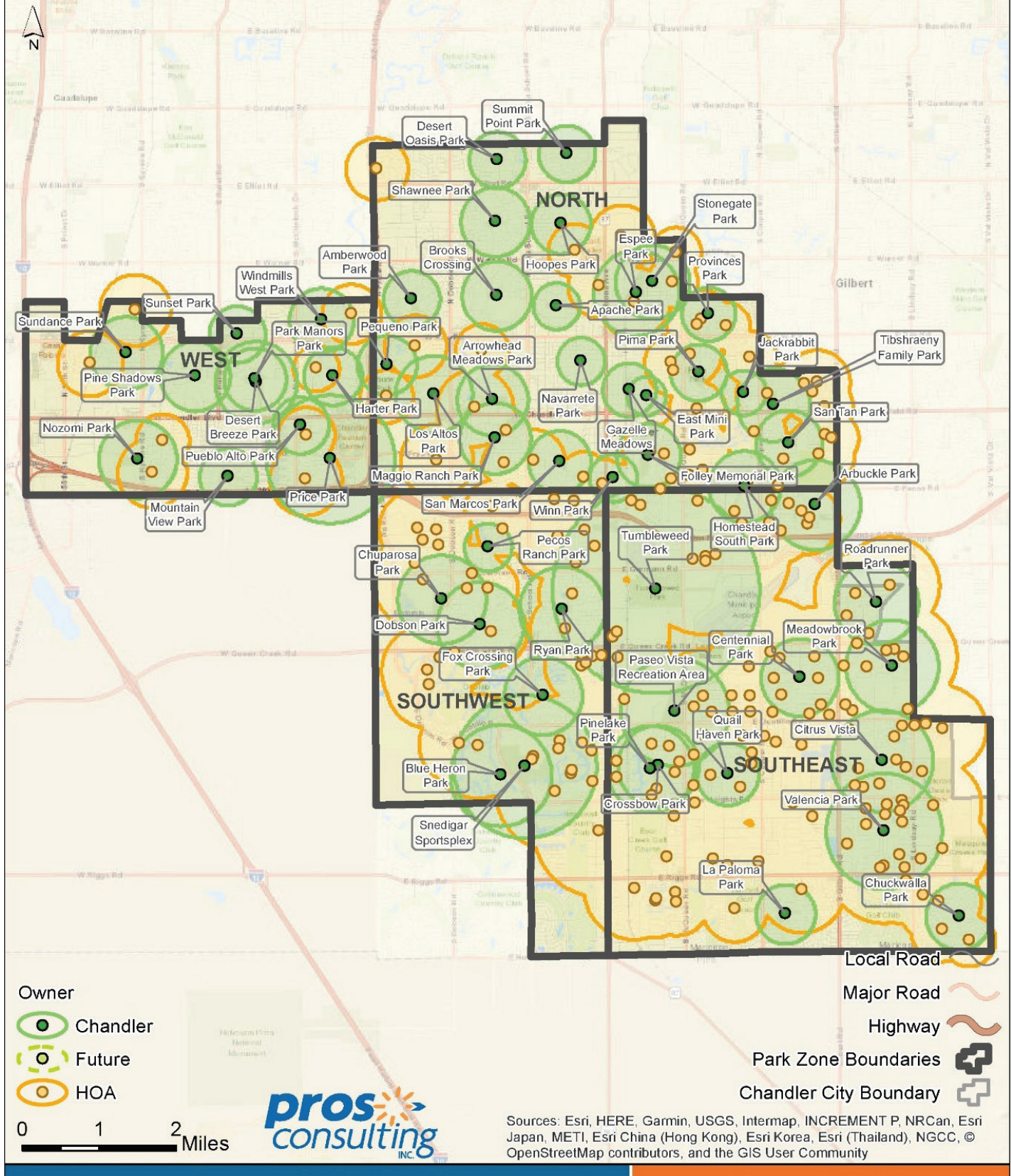


# PLAYGROUNDS

## Playgrounds

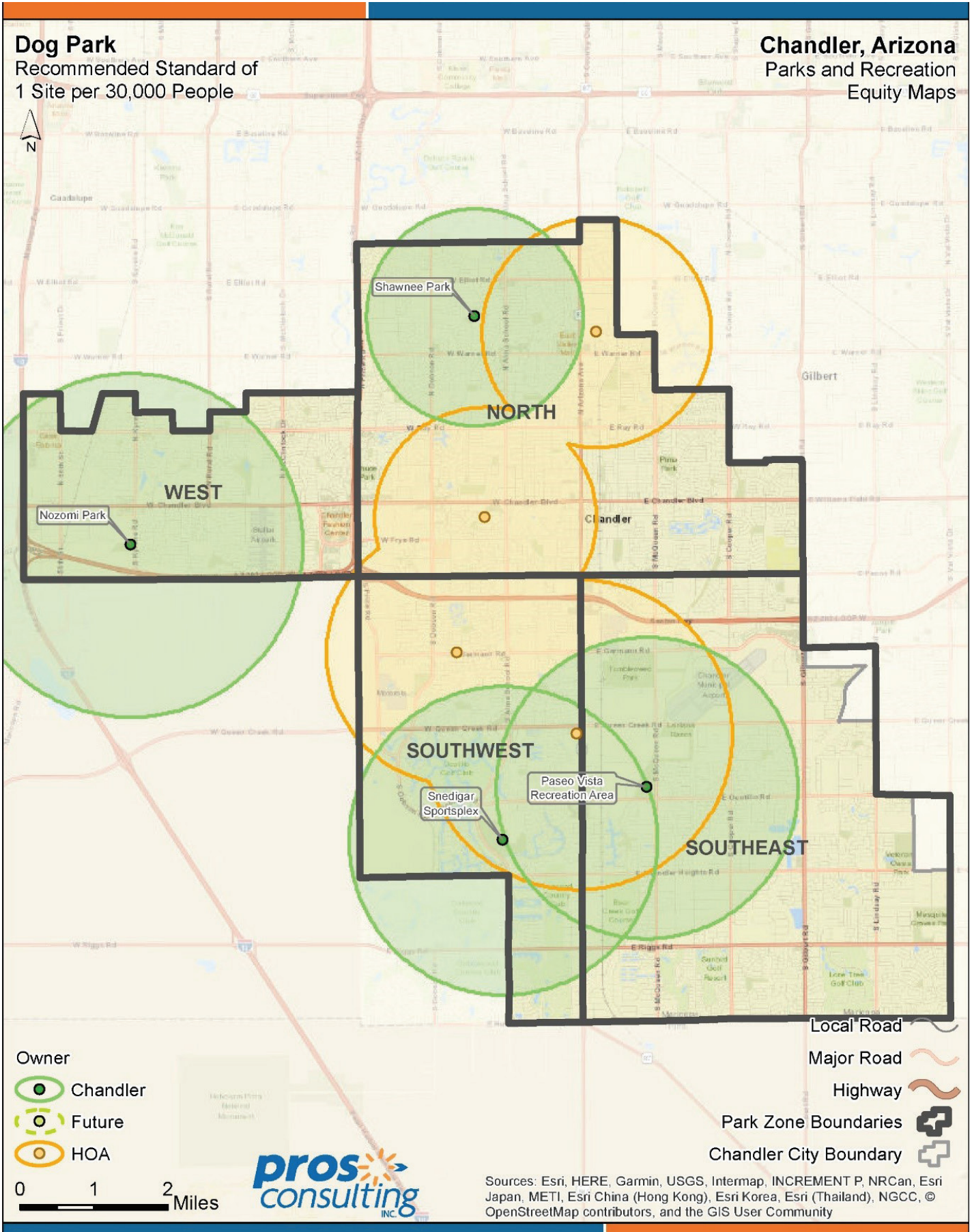
Recommended Standard of  
1 Site per 1,050 People

Chandler, Arizona  
Parks and Recreation  
Equity Maps





**DOG PARKS**





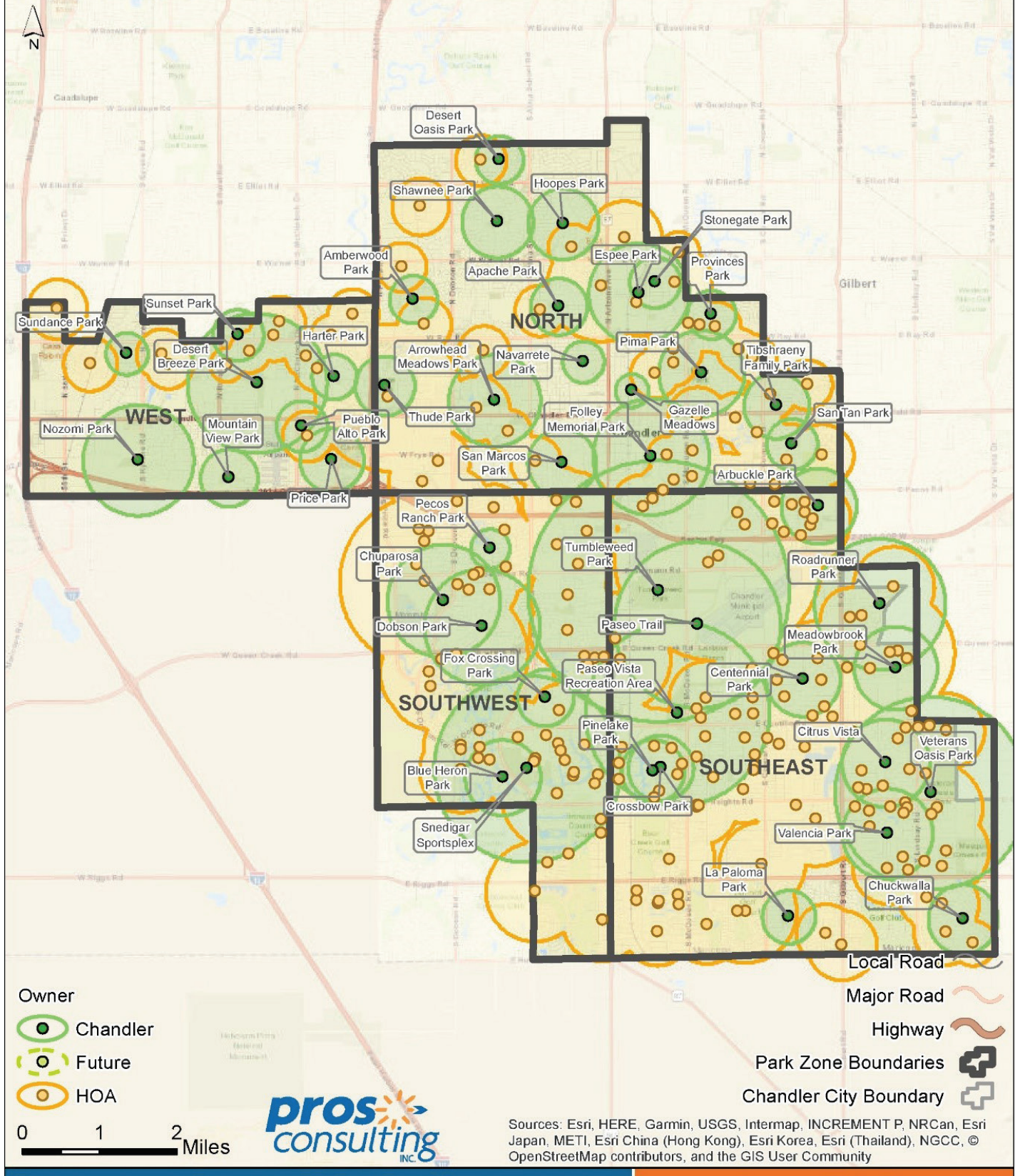
# RAMADAS

## Ramada

Recommended Standard of  
1 Site per 750 People

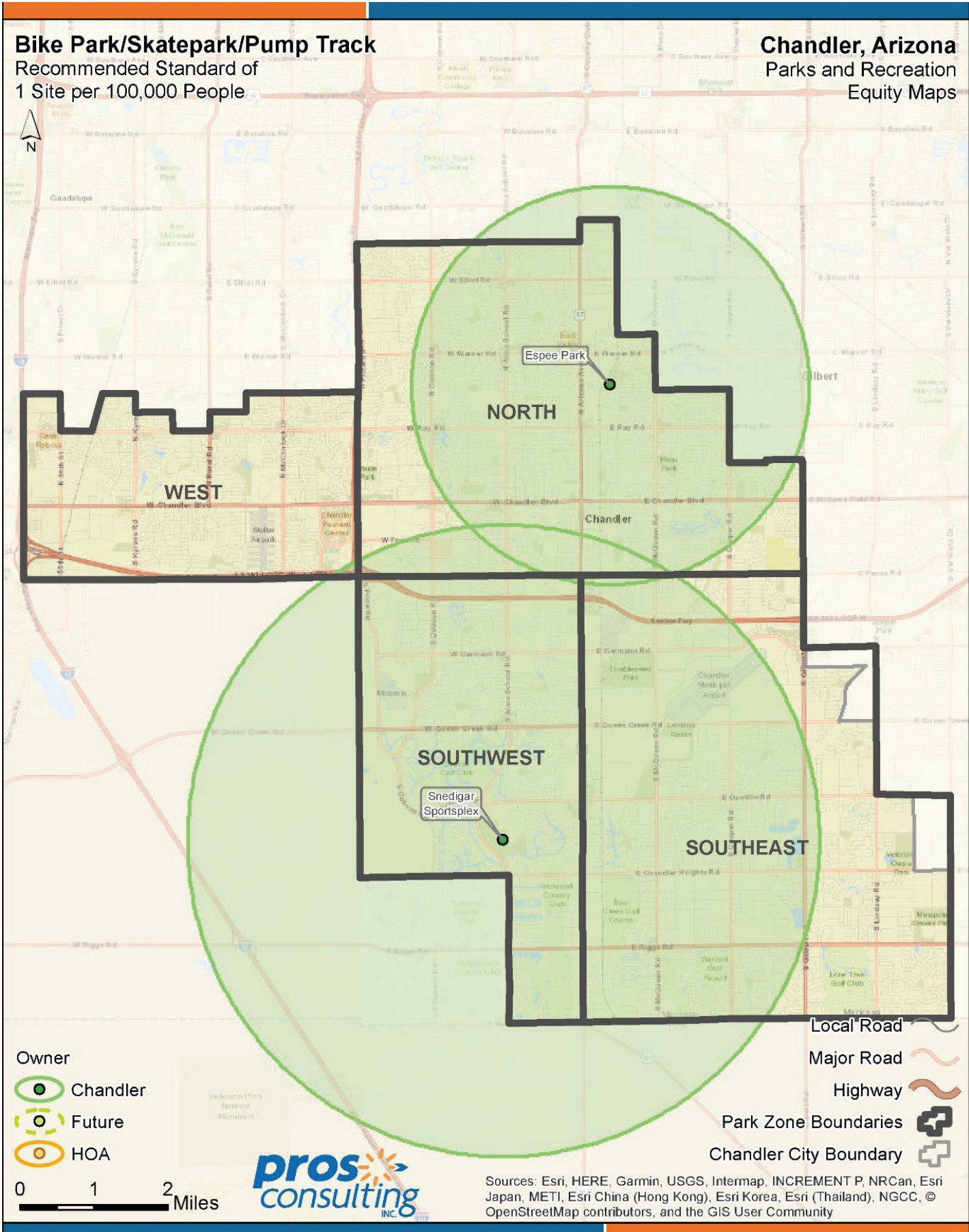
## Chandler, Arizona

Parks and Recreation  
Equity Maps





**BIKE PARK/SKATE PARK/PUMP TRACK**





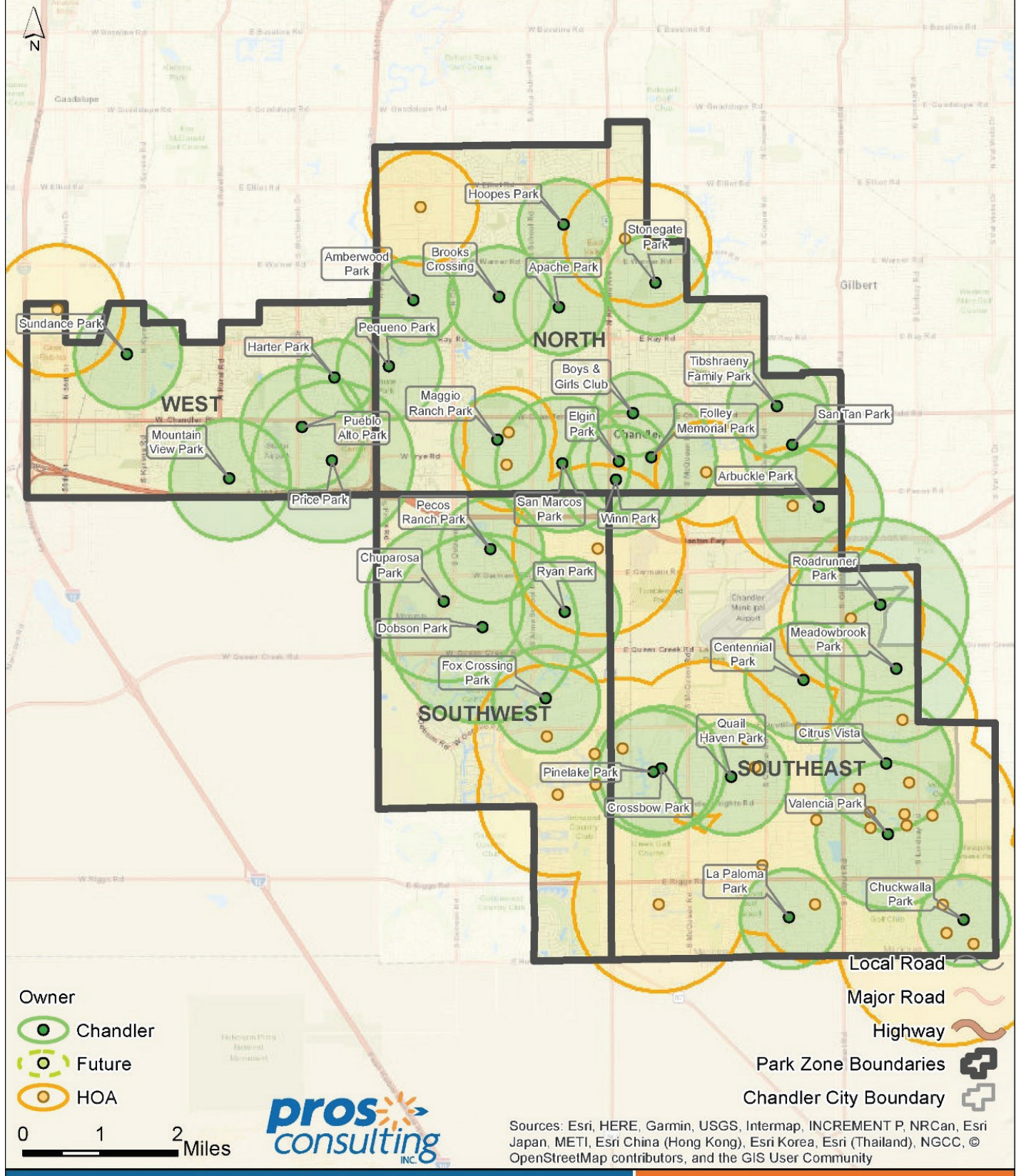
# OUTDOOR BASKETBALL COURTS LIGHTED

## Basketball Court (Lighted)

Recommended Standard of  
1 Court per 4,500 People

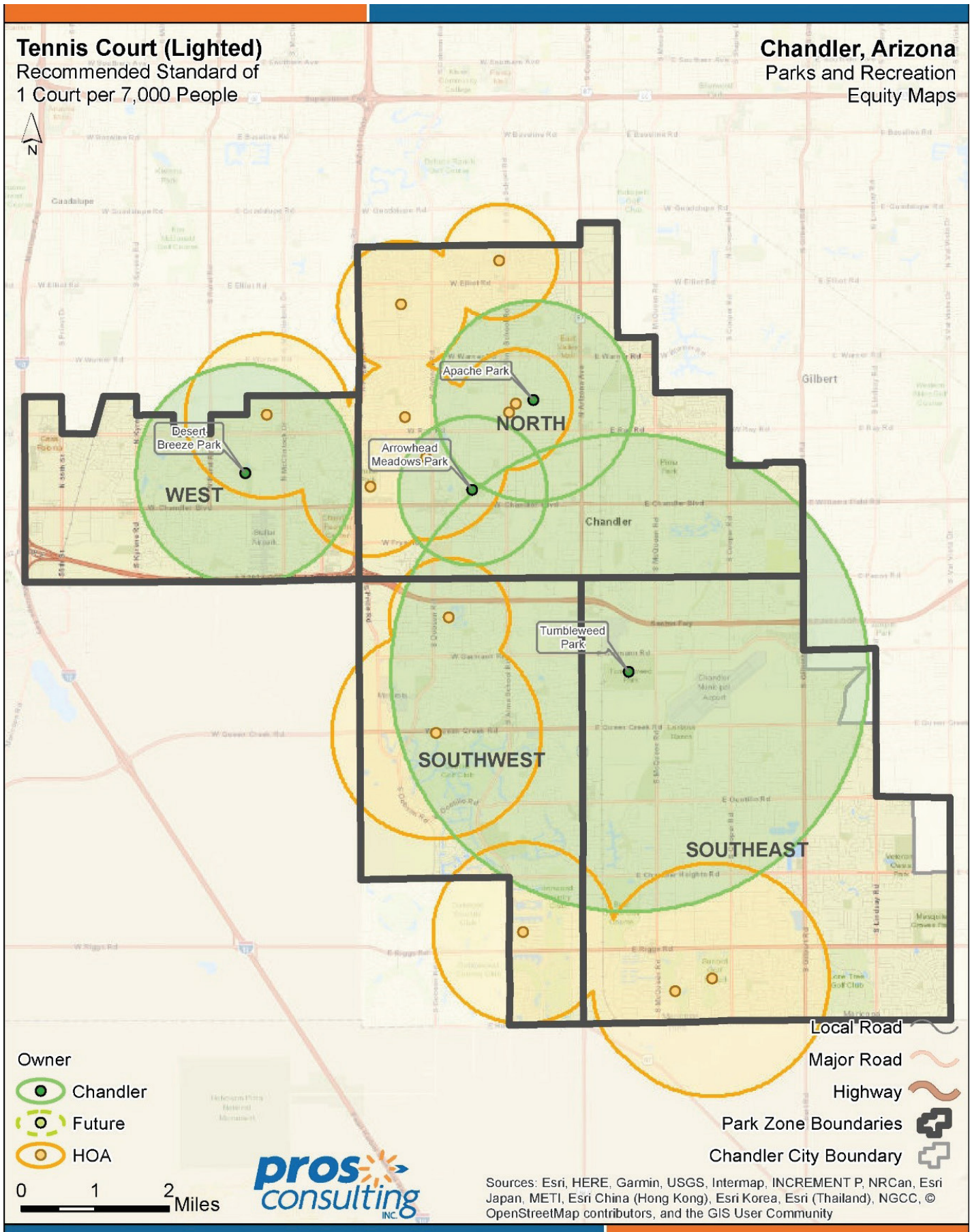
## Chandler, Arizona

Parks and Recreation  
Equity Maps





# TENNIS COURTS LIGHTED

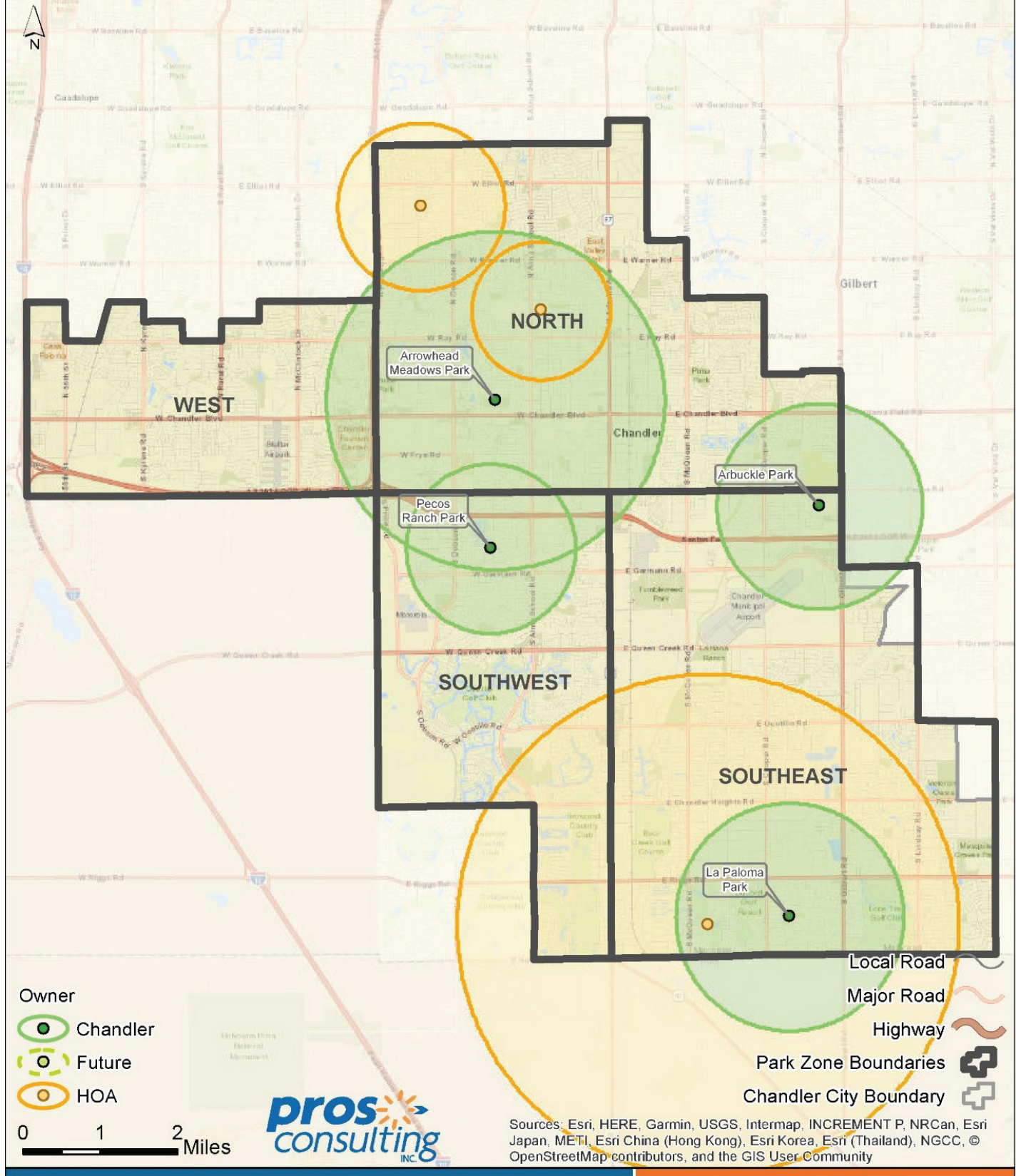




# PICKLEBALL COURTS

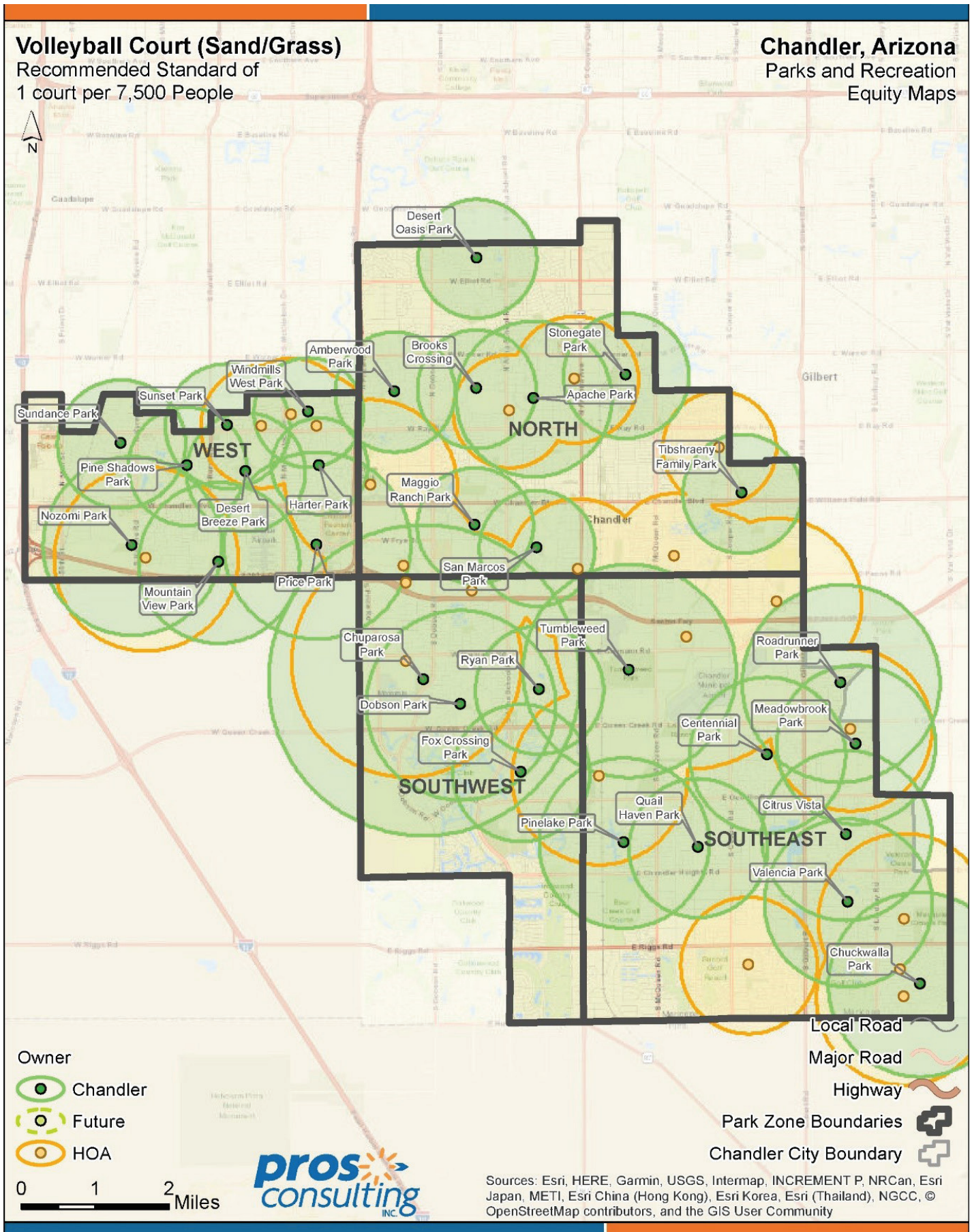
**Pickleball Court**  
 Recommended Standard of  
 1 Court per 12,000 People

**Chandler, Arizona**  
 Parks and Recreation  
 Equity Maps





# OUTDOOR VOLLEYBALL COURTS





# DISC GOLF COURSE

**Chandler, Arizona**  
Parks and Recreation  
Equity Maps

**Disc Golf Course**  
Recommended Standard of  
1 Course per 150,000 People

