#### PART 2

# NEIGHBORHOOD SCALE ANALYSIS

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This is a planning study intended to show basic urban patterns and data trends throughout areas of the City of Richmond so as to help inform policy decision-making. It is not intended to determine legal compliance or noncompliance of an individual building or property with any portion of Chapter 30 - Zoning of the Code of Ordinances. This analysis has been performed using data from the City of Richmond and other sources. Data are not guaranteed.

## **ANALYSIS ACROSS SCALES**

# City Scale

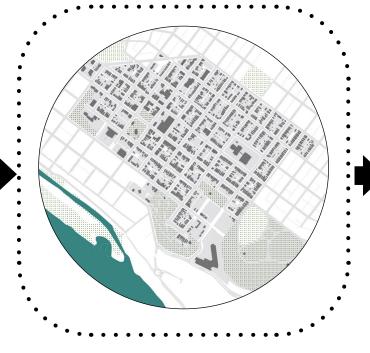
Mapping contextual patterns and misalignments between existing patterns and zoning.

Identify areas with nonconformities and areas with unbuilt zoning capacity.

What are the most prevailing types non-conformities visible at the <u>city</u> scale?

**RESULT**: City-wide misalignments and selection of 10 representative areas to analyze at the neighborhood scale

#### **Neighborhood Scale**

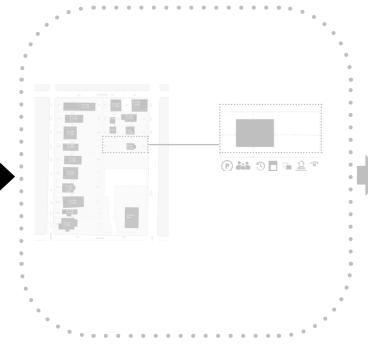


Mapping misalignments between existing patterns and zoning.

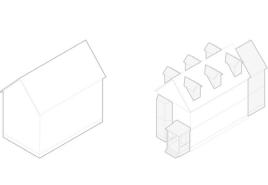
What are the most prevailing types of form nonconformities visible at the neighborhood scale?

**RESULT**: Sub-patterns in each representative study area. Select representative blocks to test qualitative and metric-specific patterns

**Block Scale** 



**Building Scale** 



Illustrating misalignments between existing patterns and zoning.

Illustrating contextual patterns.

What are the most strategic things we need to regulate at the <u>block</u> scale?

**RESULT**: Sub-patterns in each block analyzed

Illustrating misalignments between existing patterns and zoning.

Illustrating relationship between buildings and the public realm.

What are the most strategic things we need to regulate at the building scale?

**RESULT**: Building taxonomy to test potential code changes.

# **NEIGHBORHOOD SCALE ANALYSIS**

## **Existing Conditions**

- Current Land Use
- + Current Zoning
- + Special Use Permits Location
- + Historic Pattern
- + Residential Typology

#### **Parcel Dimensions**

- + Parcel Size and Frontage
- + Parcel Size and Frontage Nonconformity
- + Parcel Size and Frontage Distribution

#### **Nonconformities**



#### Representative Neighborhoods Dominant Zoning R-6 / R-63 1. Jackson Ward R-6 2. The Fan / Museum District R-5 / R-6 3. Church Hill North R-63 4. Union Hill R-7 5. Oregon Hill

6. Oak Grove

7. Northern Barton Heights

10. Washington Park

8. Swansboro / Swansboro West

9. Three Chopt / Westhampton

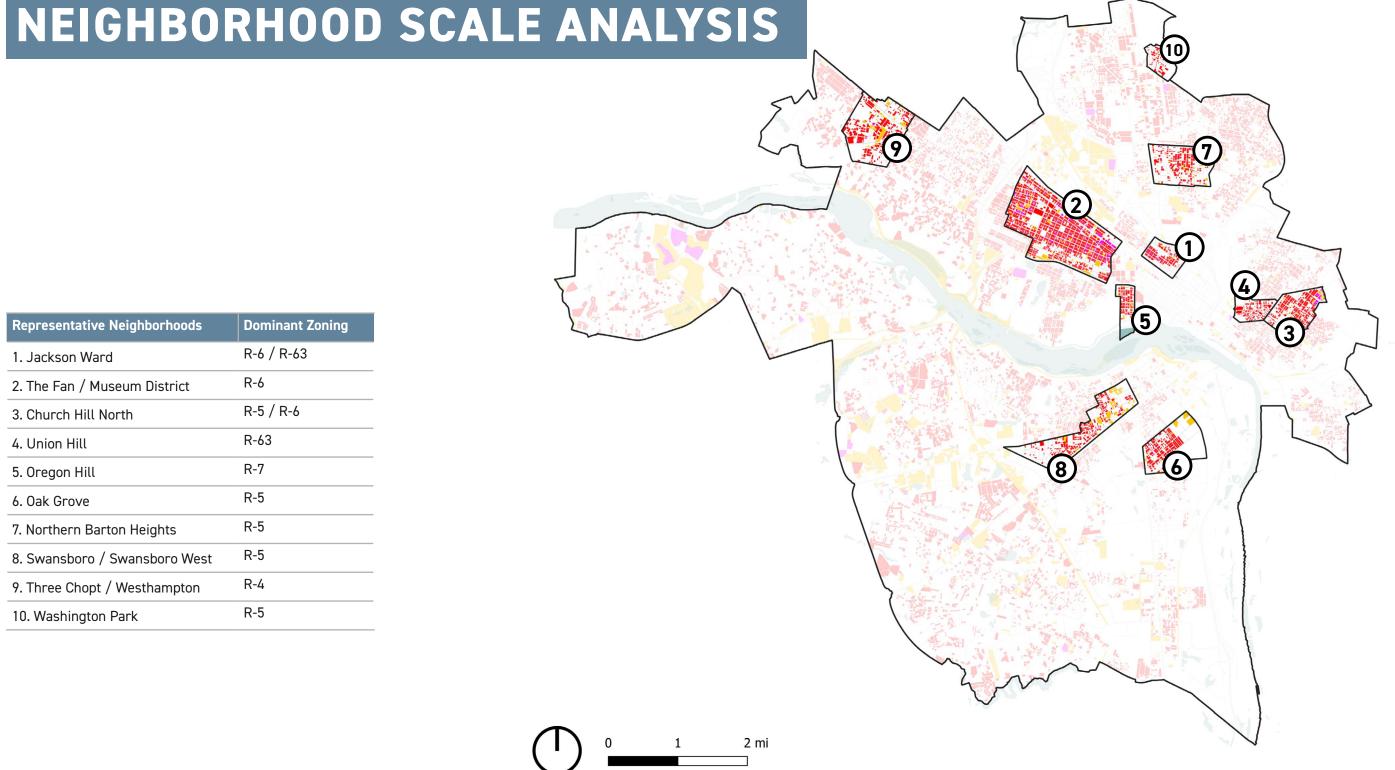
R-5

R-5

R-5

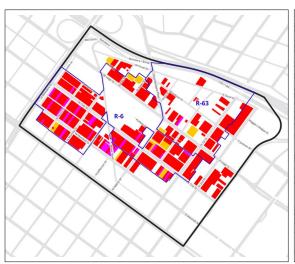
R-4

R-5

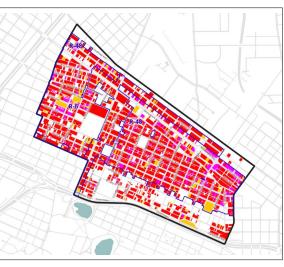


# REPRESENTATIVE NEIGHBORHOODS NONCONFORMITIES

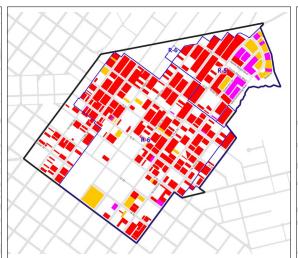




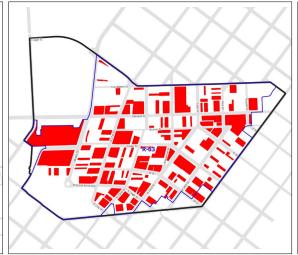
The Fan / Museum District



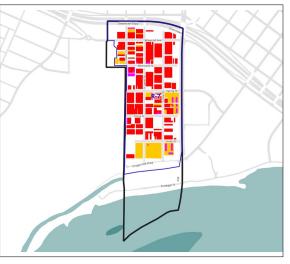
**Church Hill North** 



**Union Hill** 



**Oregon Hill** 



Predominantly zoned R-6 and R-63 Predominantly zoned R-6 and R-48 Predominantly zoned R-5 and R-6

Predominantly zoned R-63

Predominantly zoned R-7

**62%** of all parcels in Jackson

Ward are nonconforming based on form (lot size, lot coverage, building height, frontage) and/or use.

Due to Use

Due to Form

Due to Both

83% of all parcels in The Fan

& Museum District are nonconforming based on form (lot size, lot coverage, building height, frontage) and/or use.

Due to Use

Due to Form

Due to Both

65% of all parcels in Church

Hill North are nonconforming based on form (lot size, lot coverage, building height, frontage) and/or use.

Due to Use

Due to Form

Due to Both

**51%** of all parcels in Union Hill are nonconforming based on form (lot size, lot coverage, building height,

Due to Use

frontage).

Due to Form

Due to Both

**82%** of all parcels in Oregon

Hill are nonconforming based on form (lot size, lot coverage, building height, frontage) and/or use.

Due to Use

Due to Form

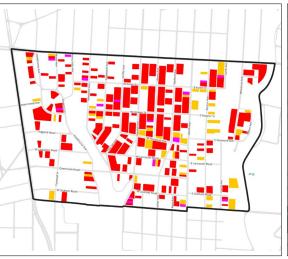
Due to Both

# REPRESENTATIVE NEIGHBORHOODS NONCONFORMITIES

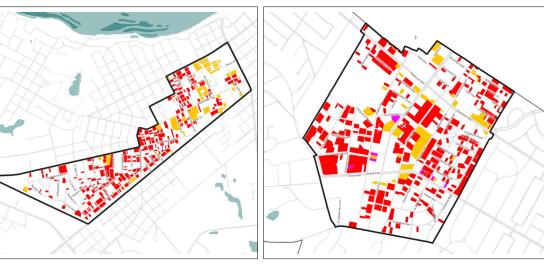




**Northern Barton Heights** 



Swansboro / Swansboro West Three Chopt / Westhampton



**Washington Park** 



Predominantly zoned R-5

**68%** of all parcels in Oak Grove are nonconforming based on form (lot size, lot coverage, building height, frontage) and/or use.

Due to Form

Predominantly zoned R-5 and R-6

Barton Heights are nonconforming

building height, frontage) and/or use.

Due to Use

Due to Form

Due to Both

45% of all parcels in Northern based on form (lot size, lot coverage,

47% of all parcels in

Swansboro / Swansboro West are nonconforming based on form (lot size, lot coverage, building height, frontage) and/or use.

Predominantly zoned R-5 and R-6

Due to Use

Due to Form

Due to Both

Predominantly zoned R-4

48% of all parcels in

Three Chopt / Westhampton are nonconforming based on form (lot size, lot coverage, building height, frontage) and/or use.

Due to Use

Due to Form

Due to Both

Predominantly zoned R-5

37% of all parcels in

Washington Park are nonconforming based on form (lot size, lot coverage, building height, frontage) and/or use.

Due to Use

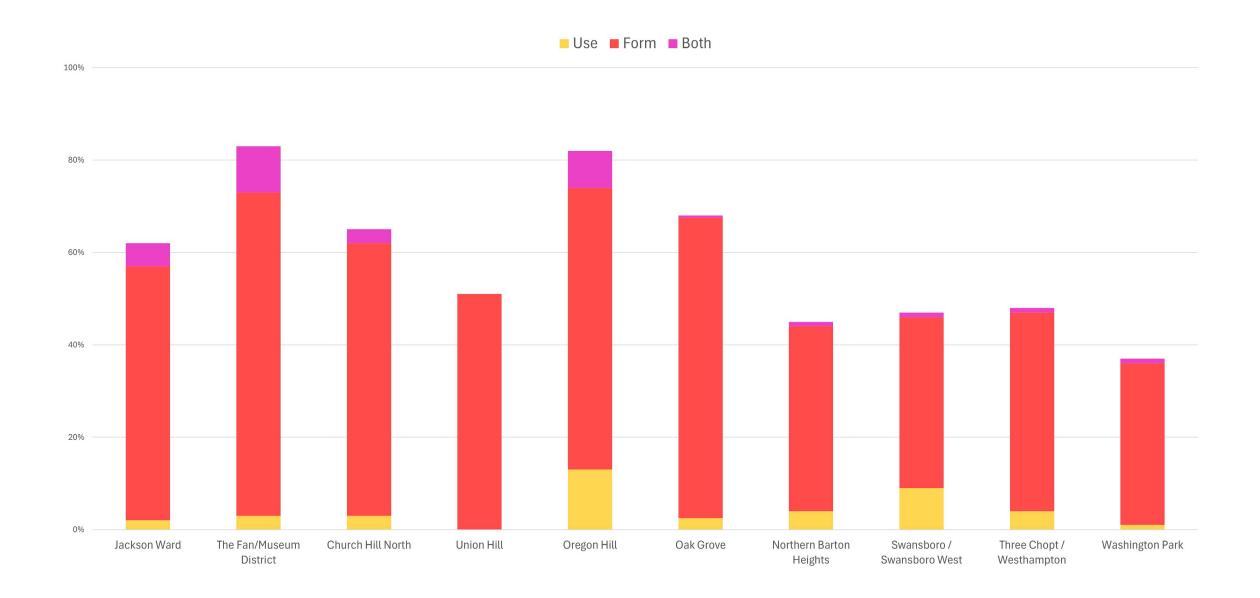
Due to Form

Due to Both

Due to Use

Due to Both

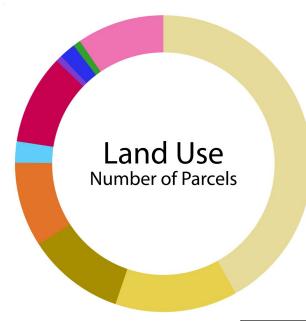
# REPRESENTATIVE NEIGHBORHOODS NONCONFORMITIES

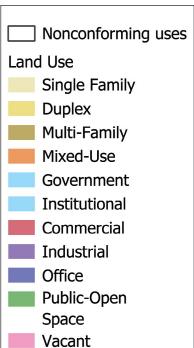


# 1. JACKSON WARD



# **LAND USE**

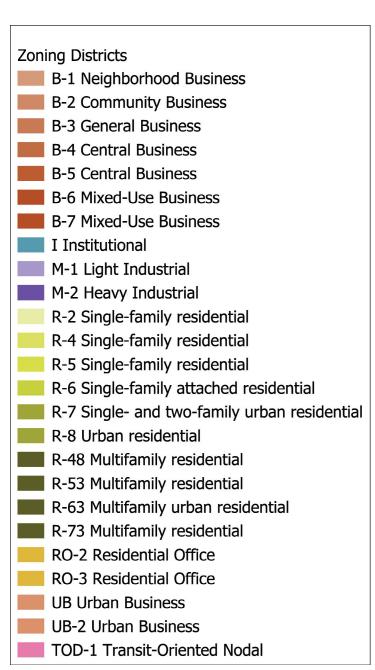






11

## **CURRENT ZONING**





RICHMOND 300 ZONING ORDINANCE REFRESH - Pattern Book DRAFT

# **SPECIAL USE PERMITS**

Special Use Permits (SUPs) by location within the neighborhood.



# RESIDENTIAL TYPOLOGY



Single Family

# **HISTORIC PATTERN**

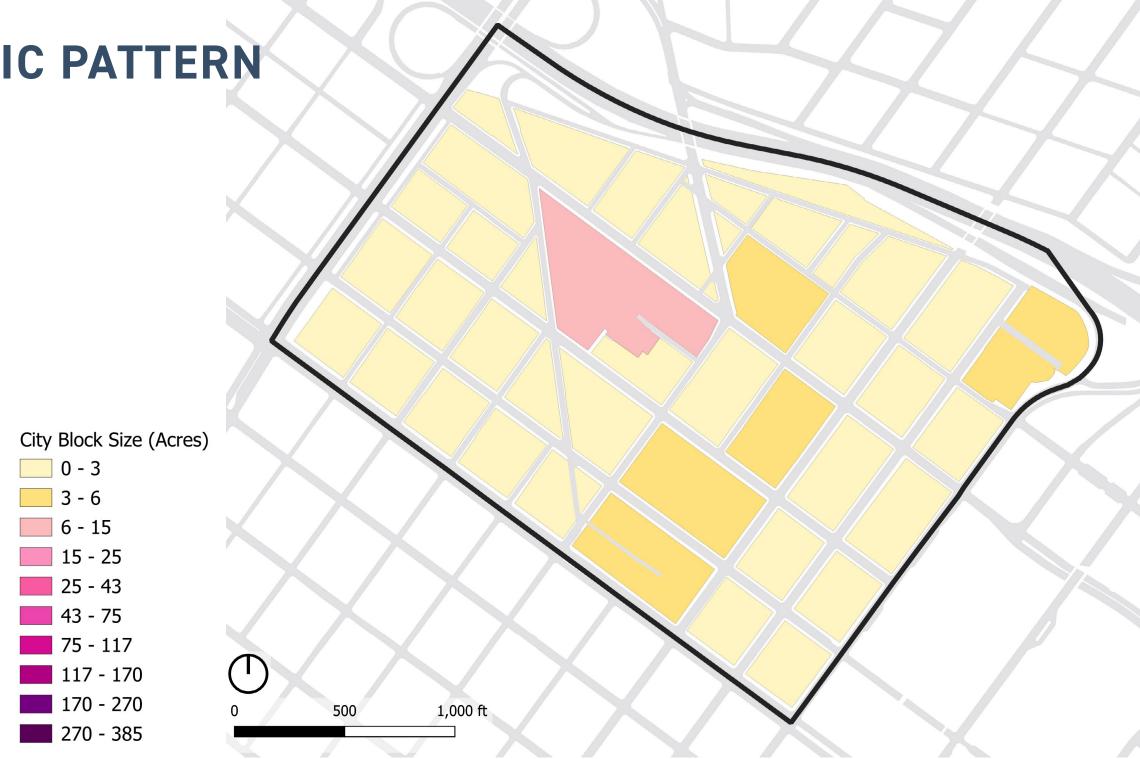
Parcels by Year built



ASR Parcels by Year Built
Prior to 1800
1800 - 1900
1900 - 1920
1920 - 1930
1930 - 1945
1945 - 1960
1960 - 1975
1975 - 1995
1995 - 2010
Post 2010

**URBAN FABRIC PATTERN** 

Blocks by size.



15

# **PARCEL SIZES**



Parcels by size
(thousands of square feet)

0 - 6

6 - 10

10 - 22

22 - 36

36 - 44

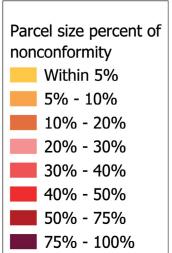
44 - 66

66 - 100

100+

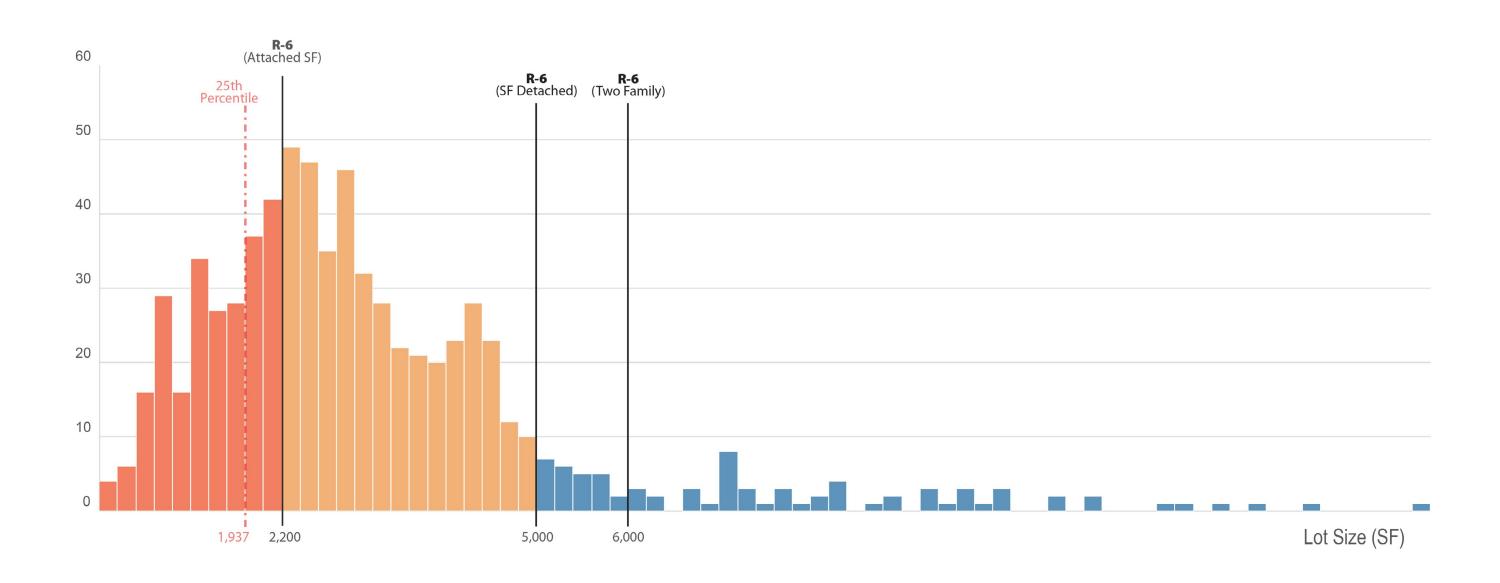
# PARCEL SIZE NONCONFORMITY





18

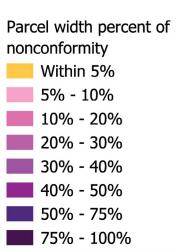
# PARCEL SIZE DISTRIBUTION



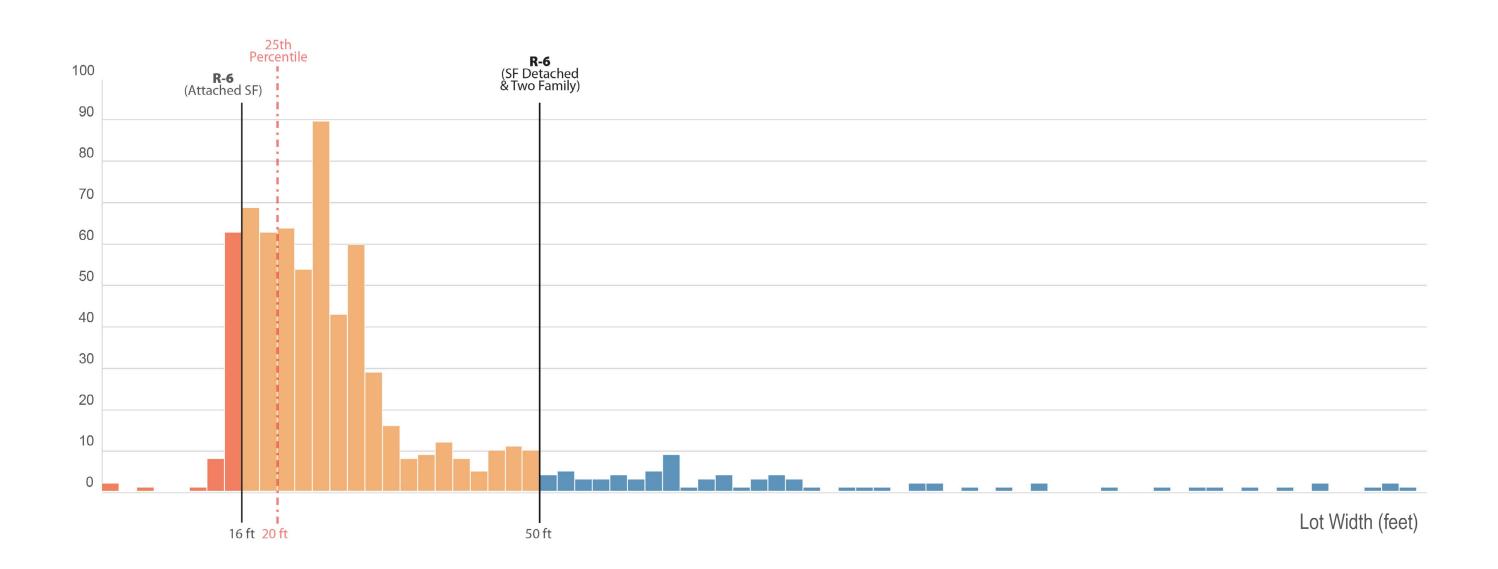
RICHMOND 300 ZONING ORDINANCE REFRESH - Pattern Book DRAFT

# PARCEL FRONTAGE





# PARCEL FRONTAGE DISTRIBUTION



# **NONCONFORMITIES**

**62%** of all parcels in

Jackson Ward are nonconforming
based on form (lot size, lot coverage,
building height, frontage) and/or use.

2% Due to Use

55% Due to Form

5% Due to Both

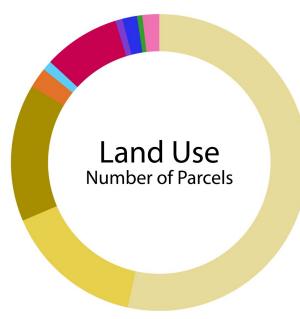
### Predominantly zoned R-6 and R-63

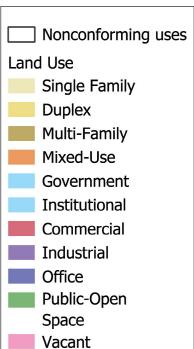


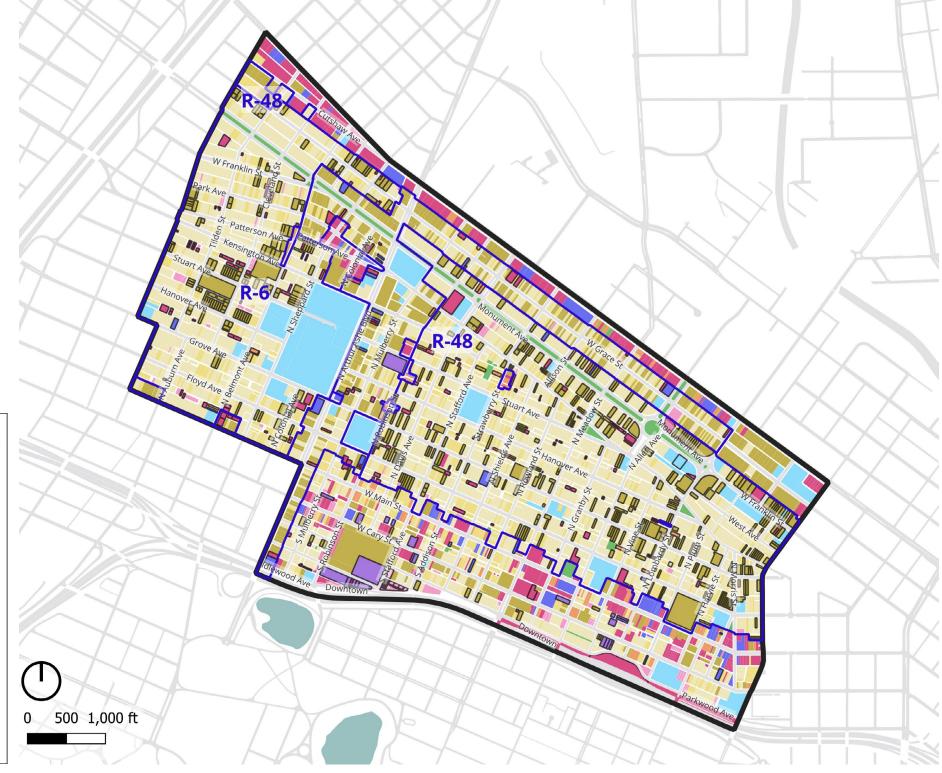
# 2. THE FAN / MUSEUM DISTRICT



# **LAND USE**



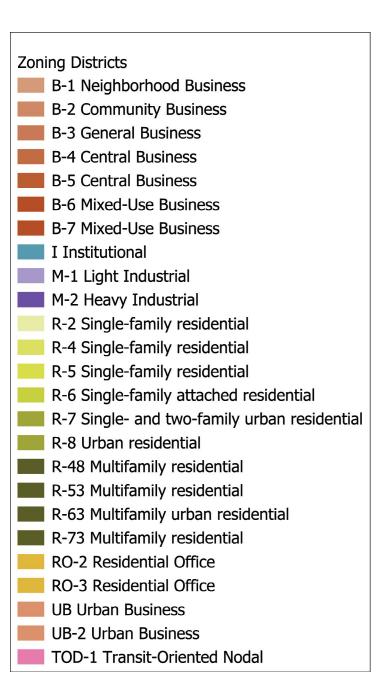


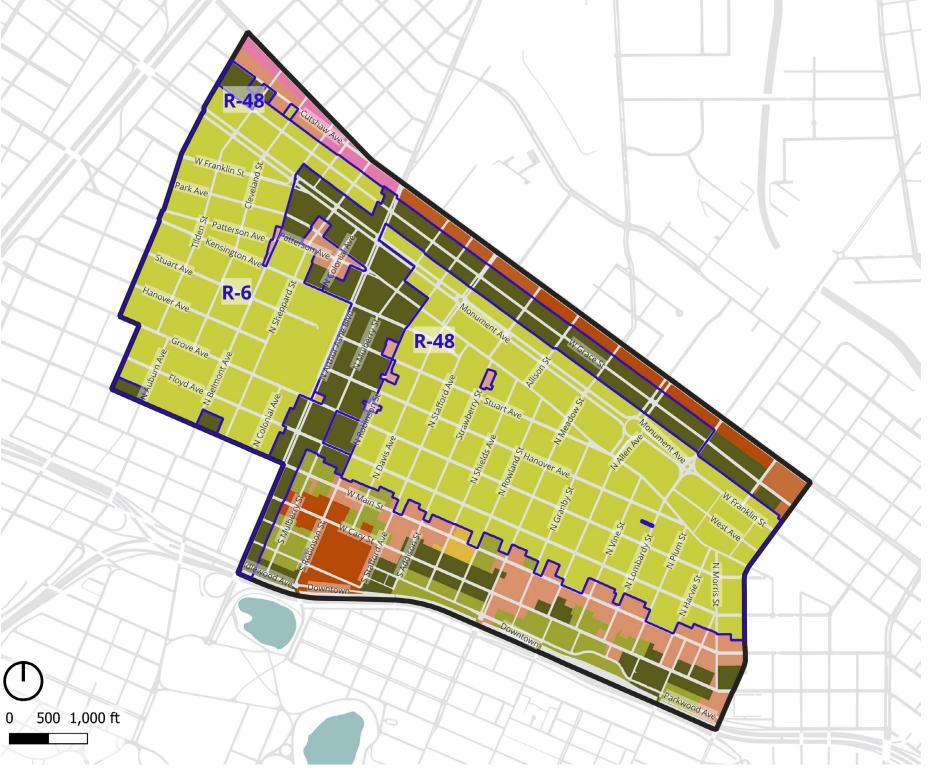


23

24

## **CURRENT ZONING**

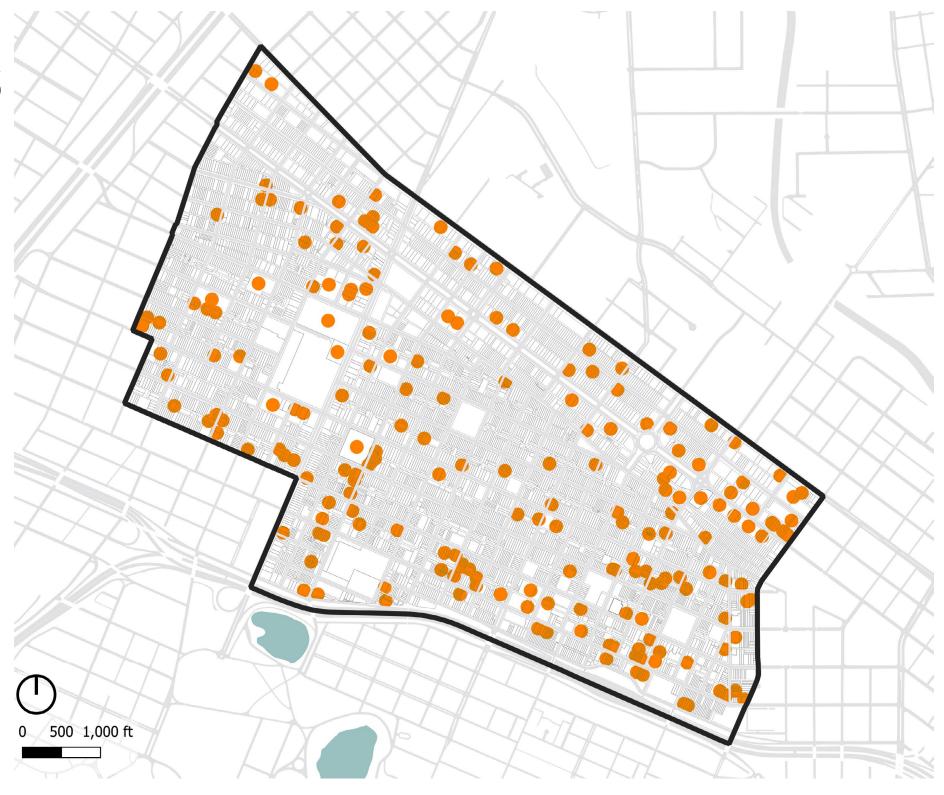




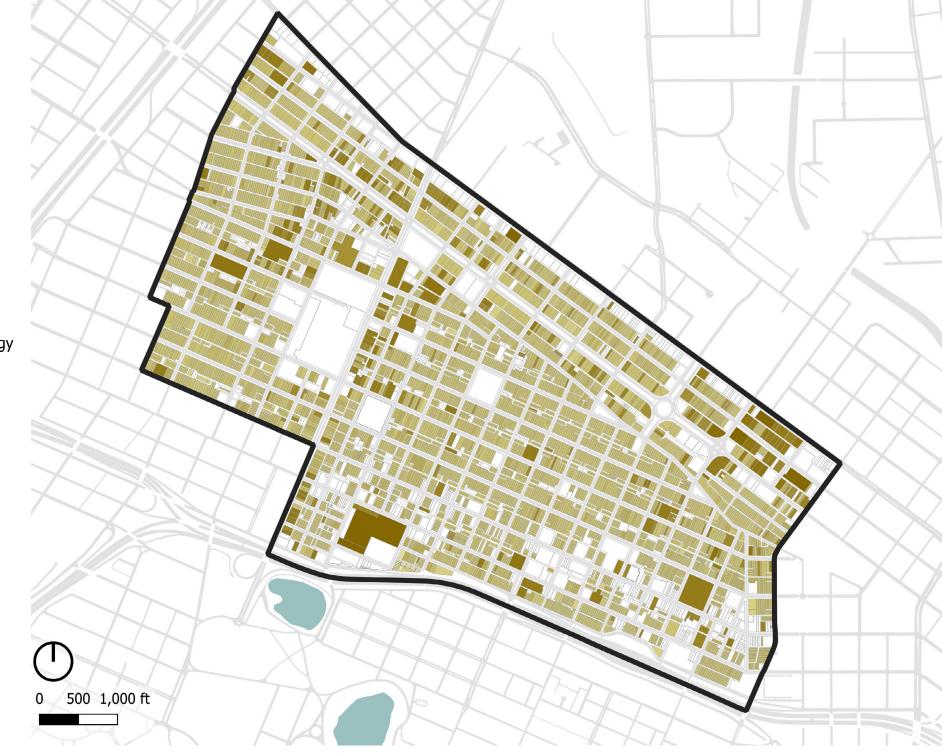
RICHMOND 300 ZONING ORDINANCE REFRESH - Pattern Book DRAFT

# **SPECIAL USE PERMITS**

Special Use Permits (SUPs) by location within the neighborhood.



# RESIDENTIAL TYPOLOGY

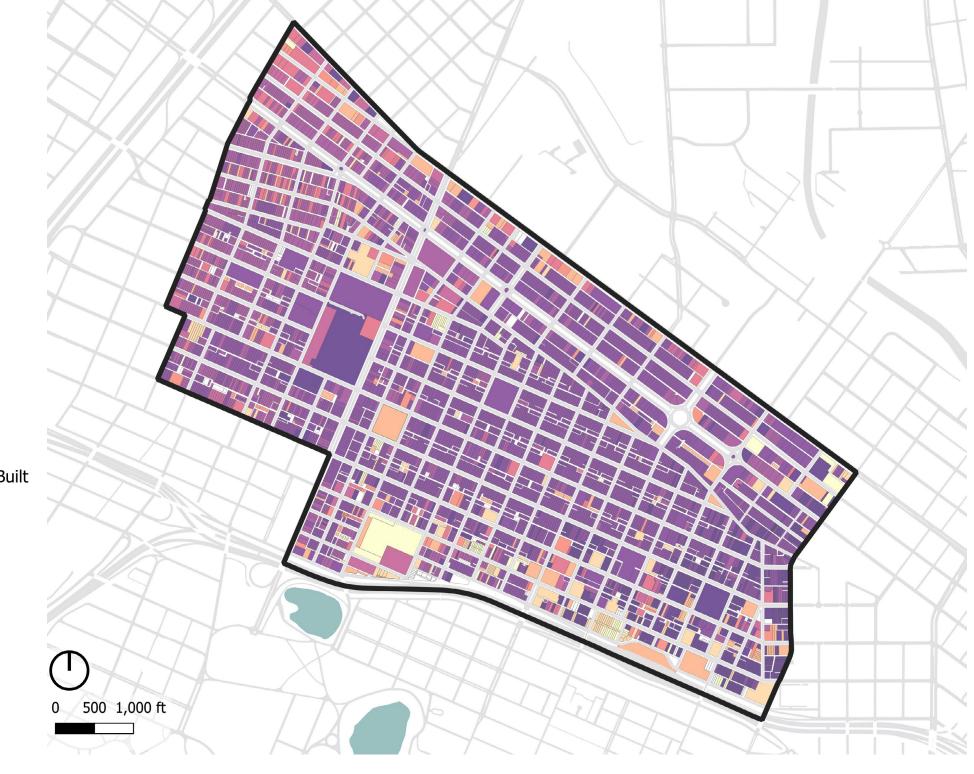


Residential Parcel Typology 100+ Units 50+ Units 25-99 Units 10-50 Units 5-49 Units 1-10 Units Multi-Family Mixed Use Mobile Home Park Senior Living Four Family Three Family Two Family Two Story One Story

Single Family

# **HISTORIC PATTERN**

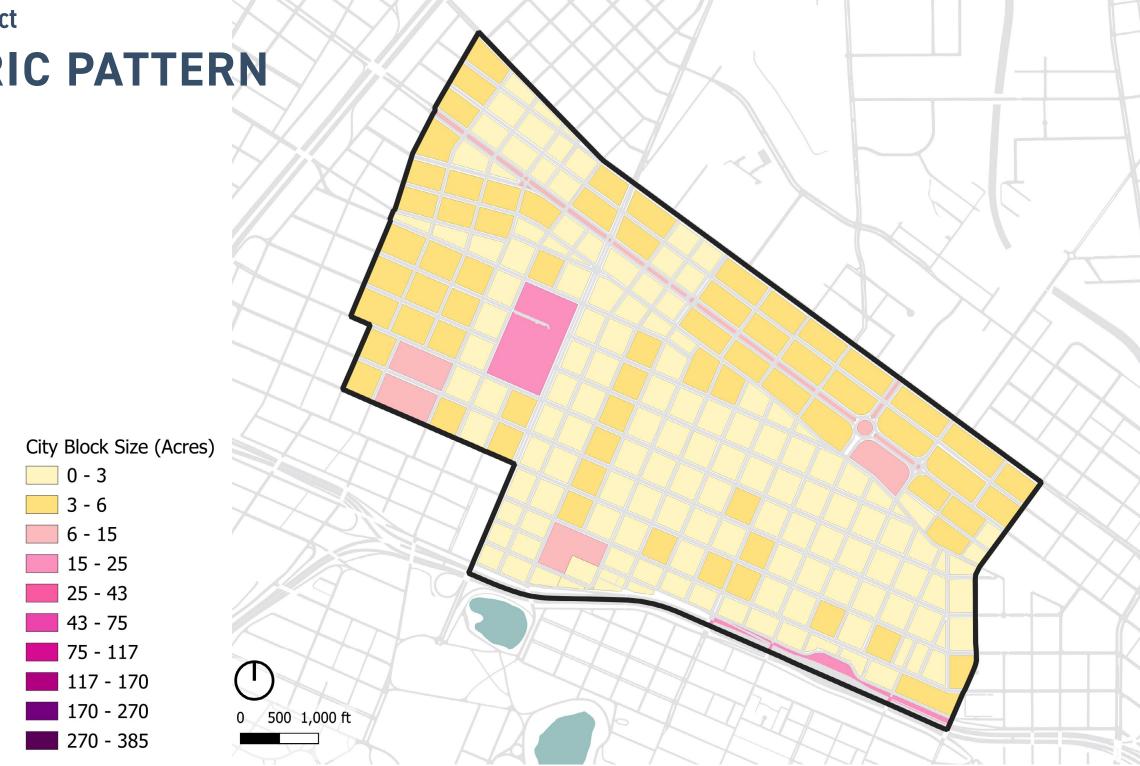
Parcels by Year built



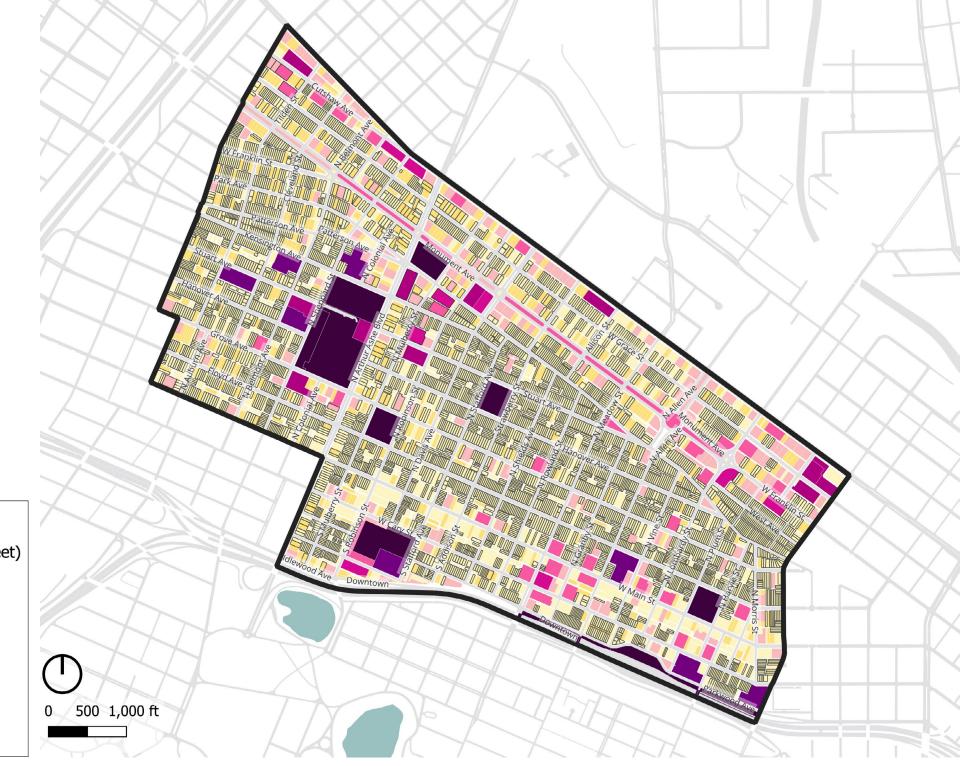
ASR Parcels by Year Built
Prior to 1800
1800 - 1900
1900 - 1920
1920 - 1930
1930 - 1945
1945 - 1960
1960 - 1975
1975 - 1995
1995 - 2010
Post 2010

**URBAN FABRIC PATTERN** 

Blocks by size.



# **PARCEL SIZES**



Parcels by size
(thousands of square feet)

0 - 6

6 - 10

10 - 22

22 - 36

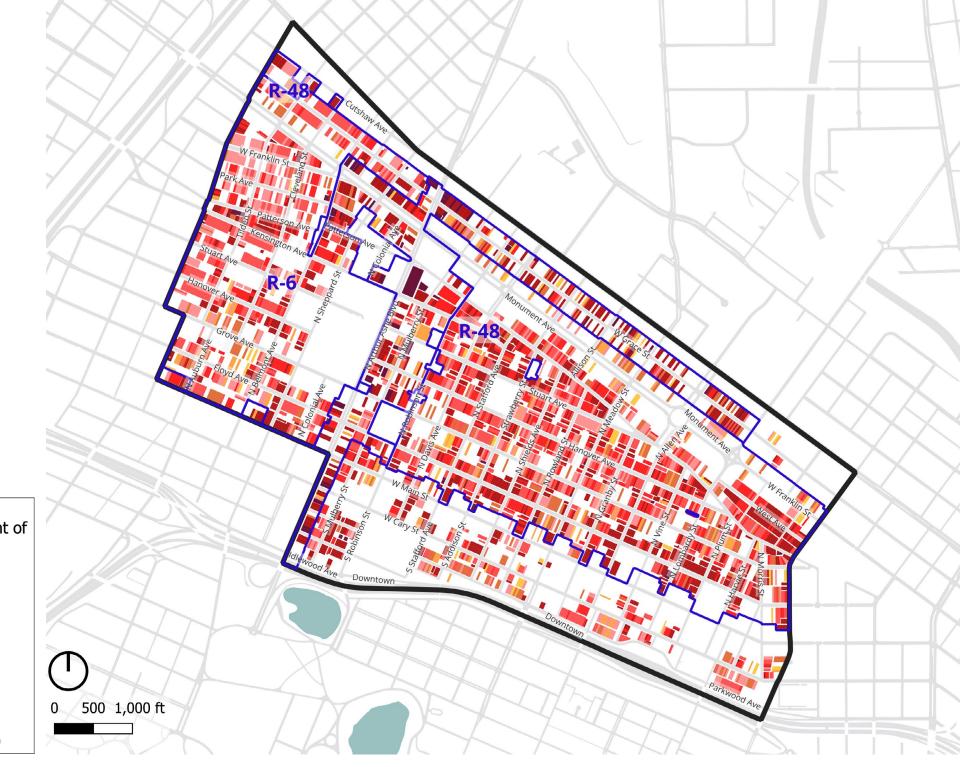
36 - 44

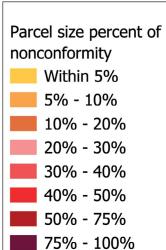
44 - 66

66 - 100

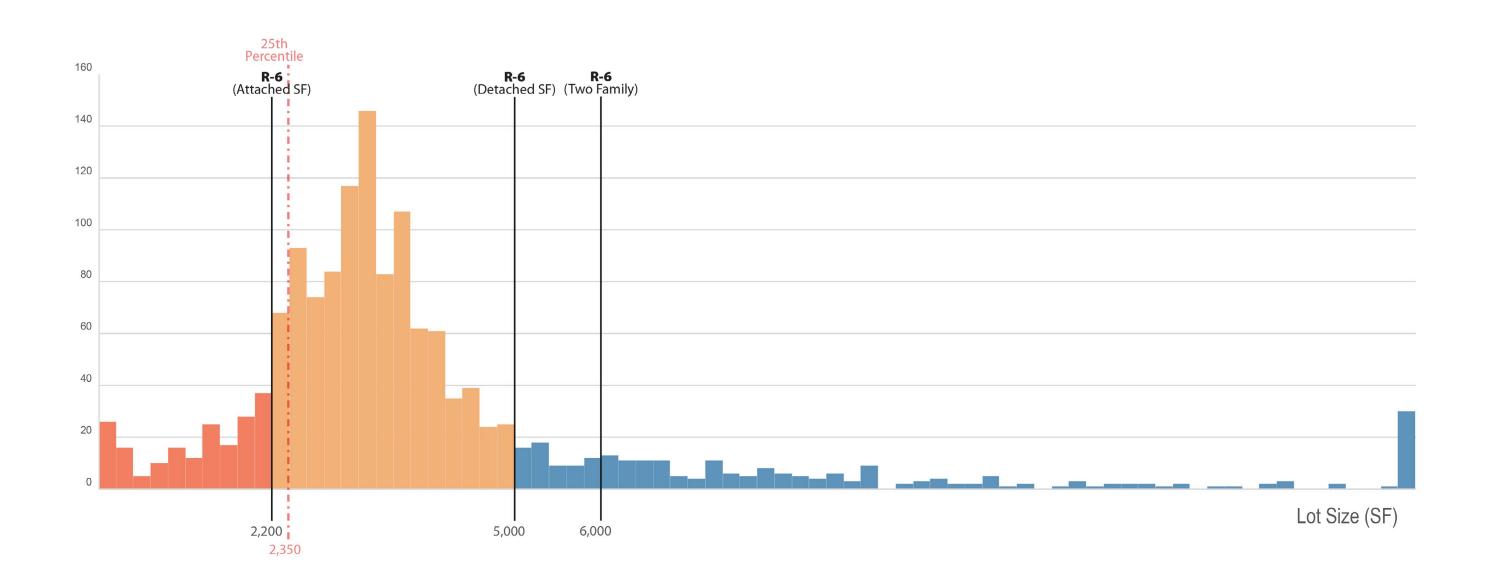
100+

# PARCEL SIZE NONCONFORMITY

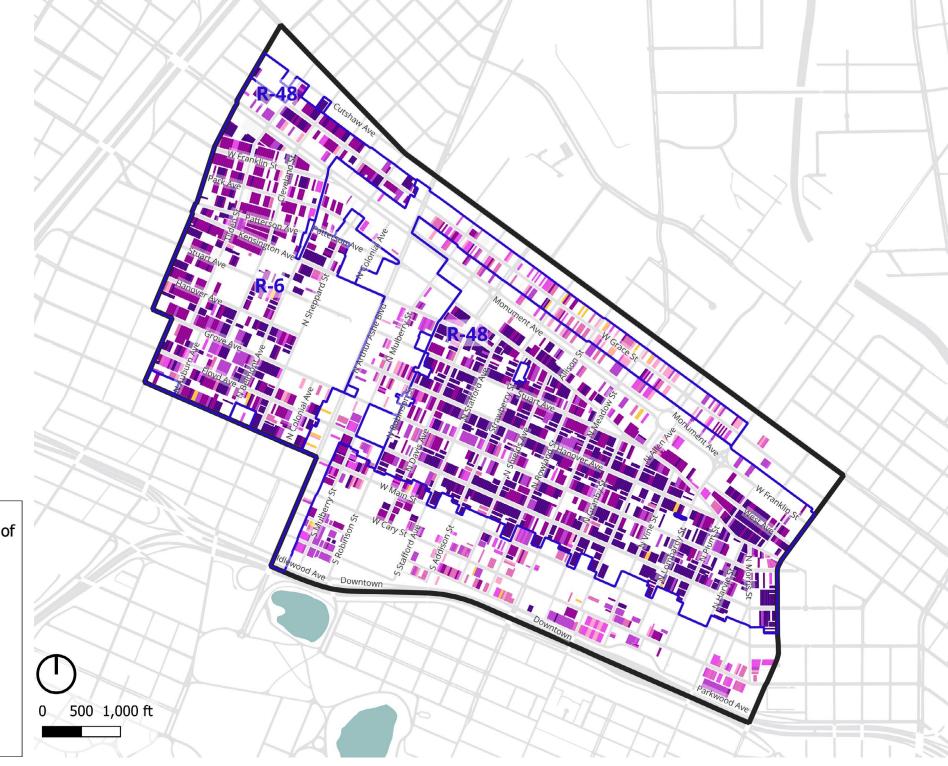




# PARCEL SIZE DISTRIBUTION



# PARCEL FRONTAGE



Parcel width percent of nonconformity

Within 5%

5% - 10%

10% - 20%

20% - 30%

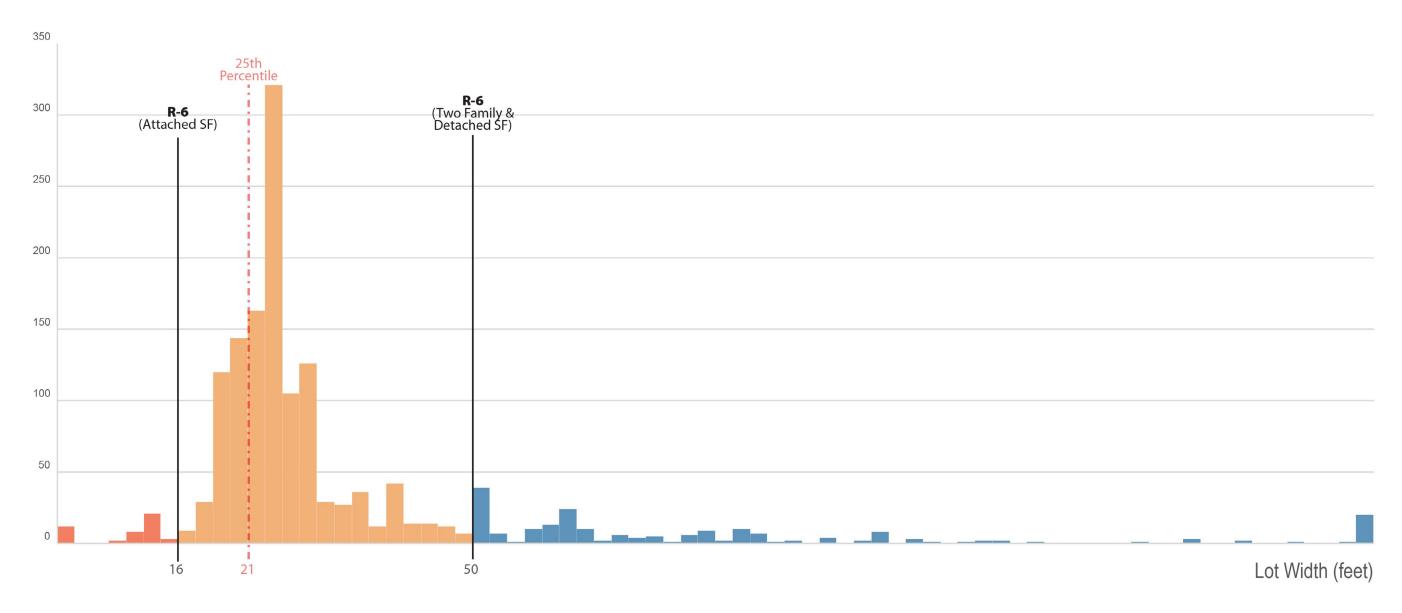
30% - 40%

40% - 50%

50% - 75%

75% - 100%

# PARCEL FRONTAGE DISTRIBUTION



# **NONCONFORMITIES**

83% of all parcels in

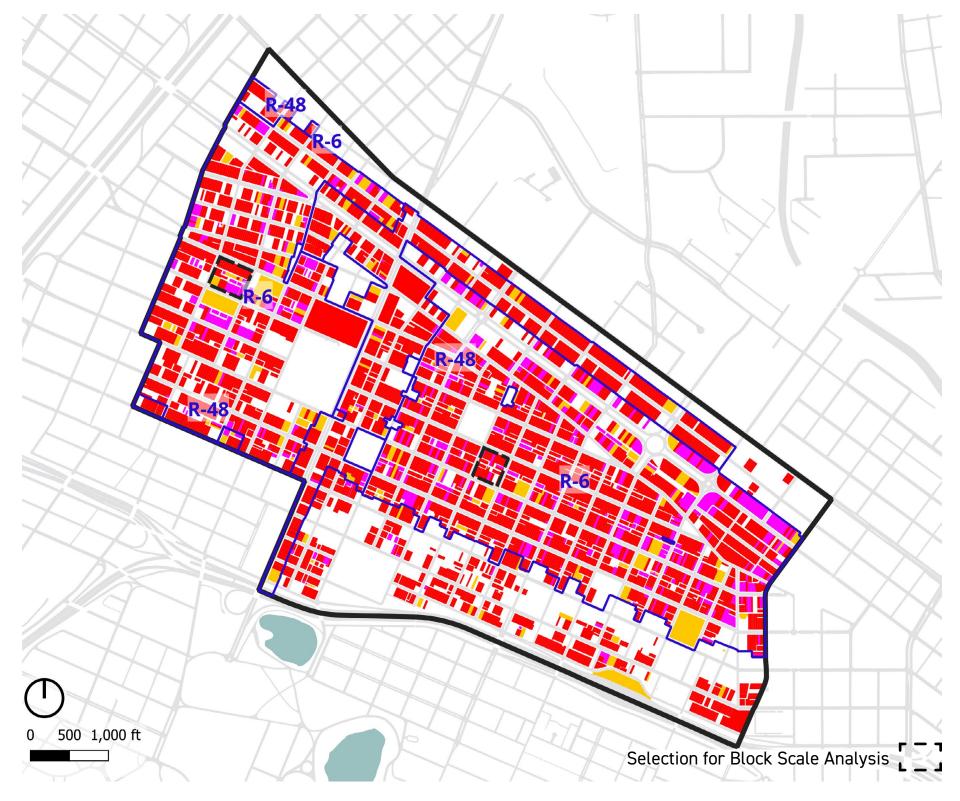
The Fan / Museum District are nonconforming based on lot size, lot coverage, building height, frontage, and/or use.

Due to Use

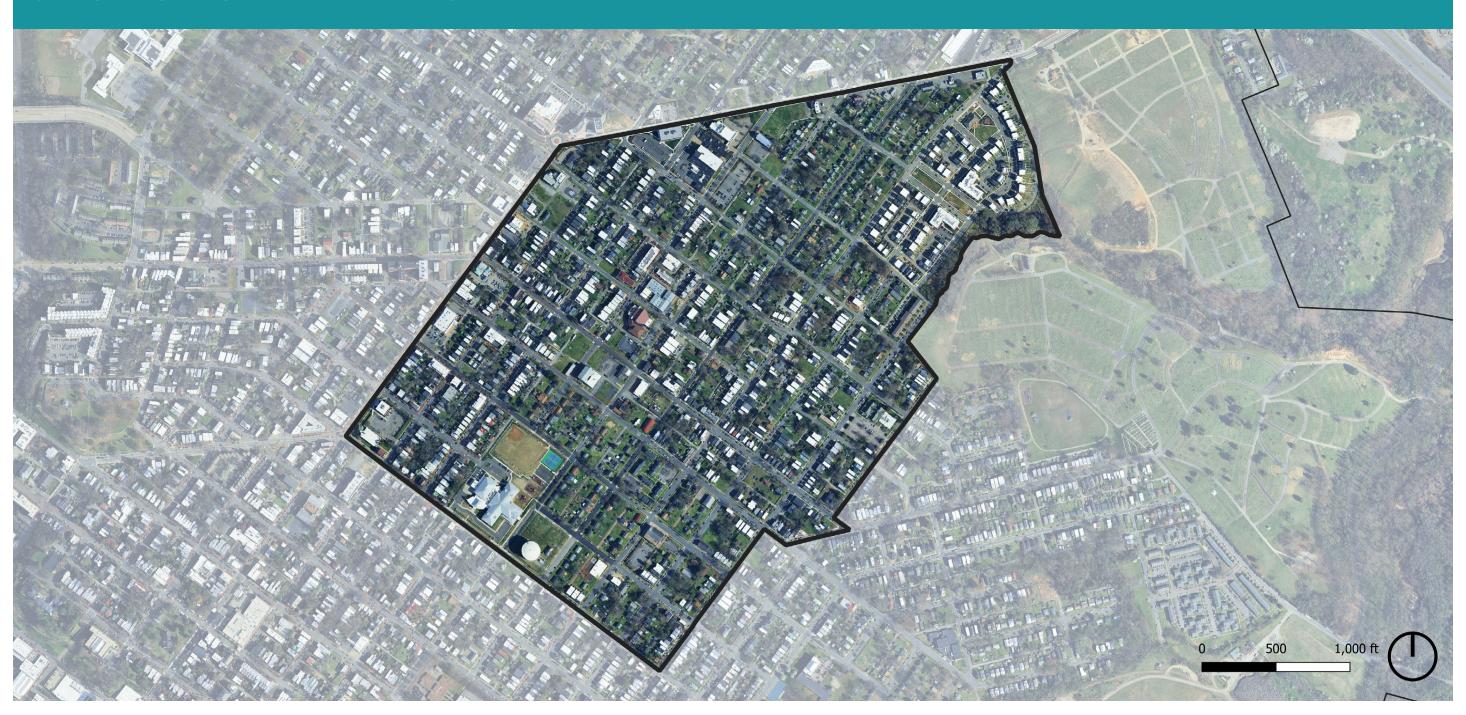
70% Due to Form

10% Due to Both

### Predominantly zoned R-6 and R-48

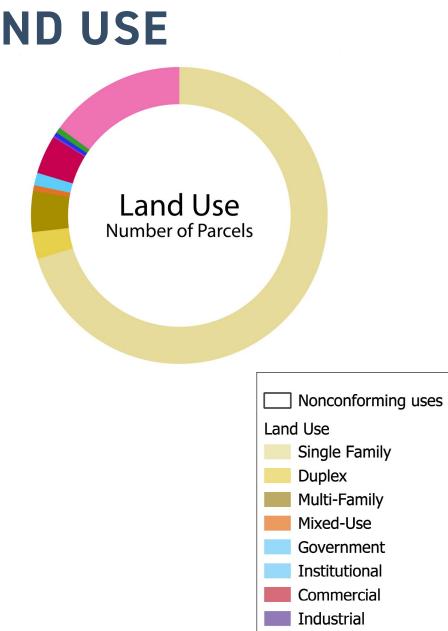


# 3. CHURCH HILL NORTH



#### 3. Church Hill North

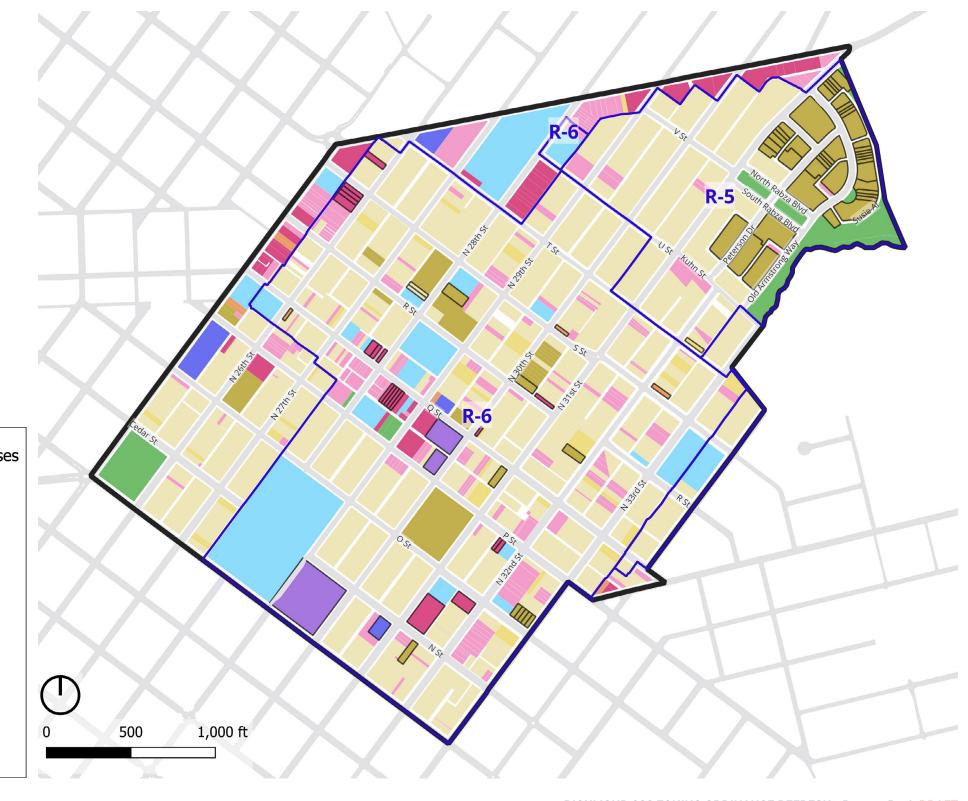
# LAND USE



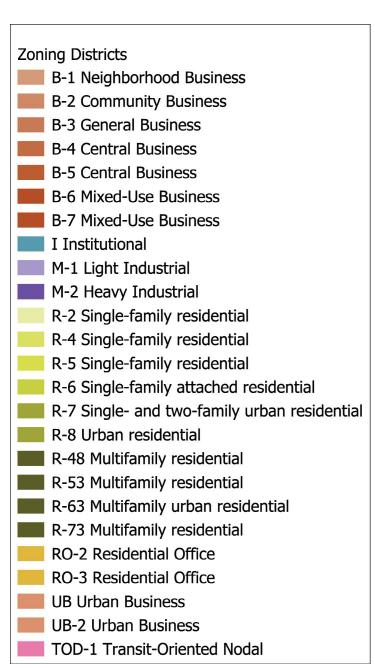
Office

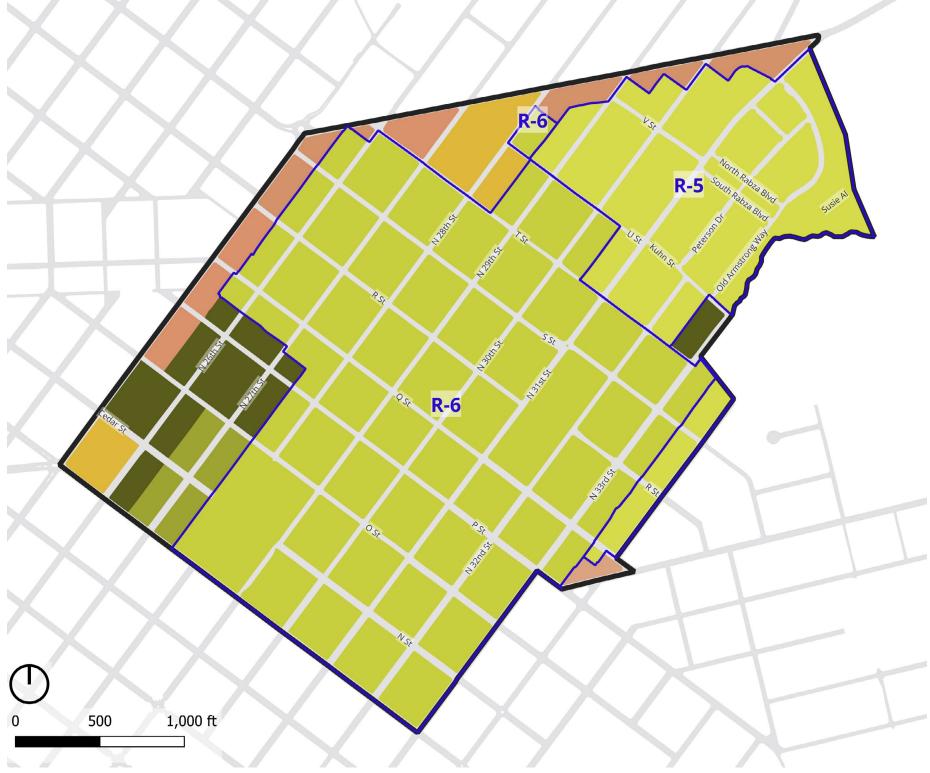
Public-Open

Space Vacant



## **CURRENT ZONING**



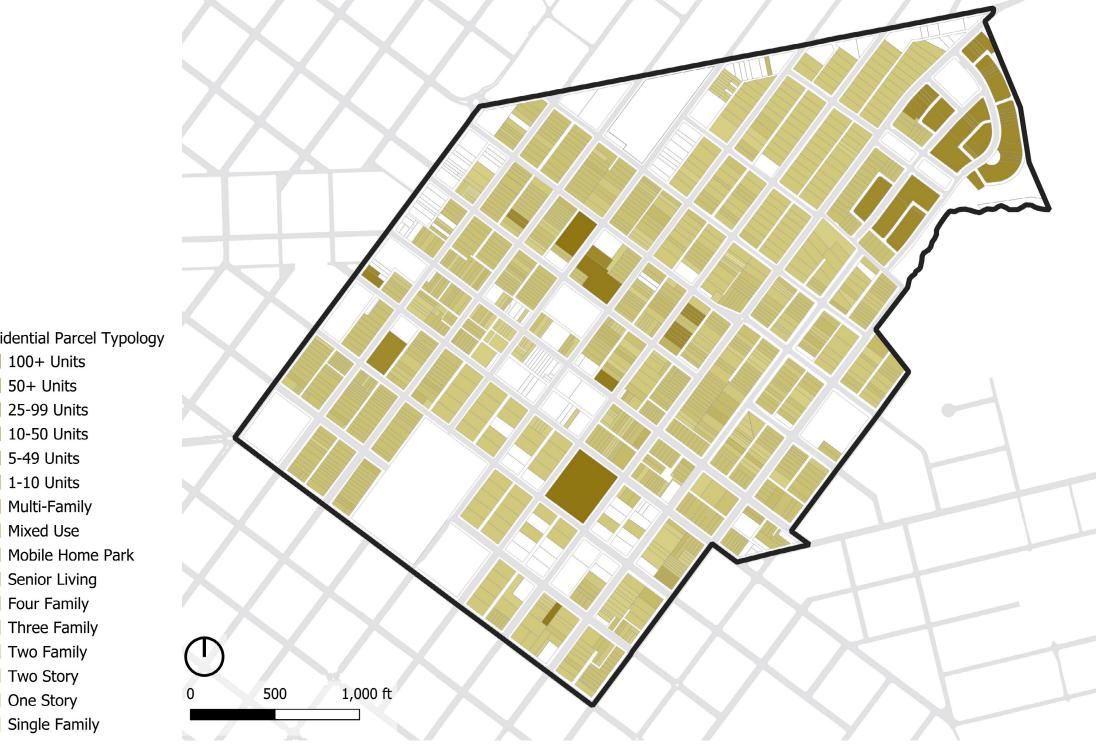


# **SPECIAL USE PERMITS**

Special Use Permits (SUPs) by location within the neighborhood.

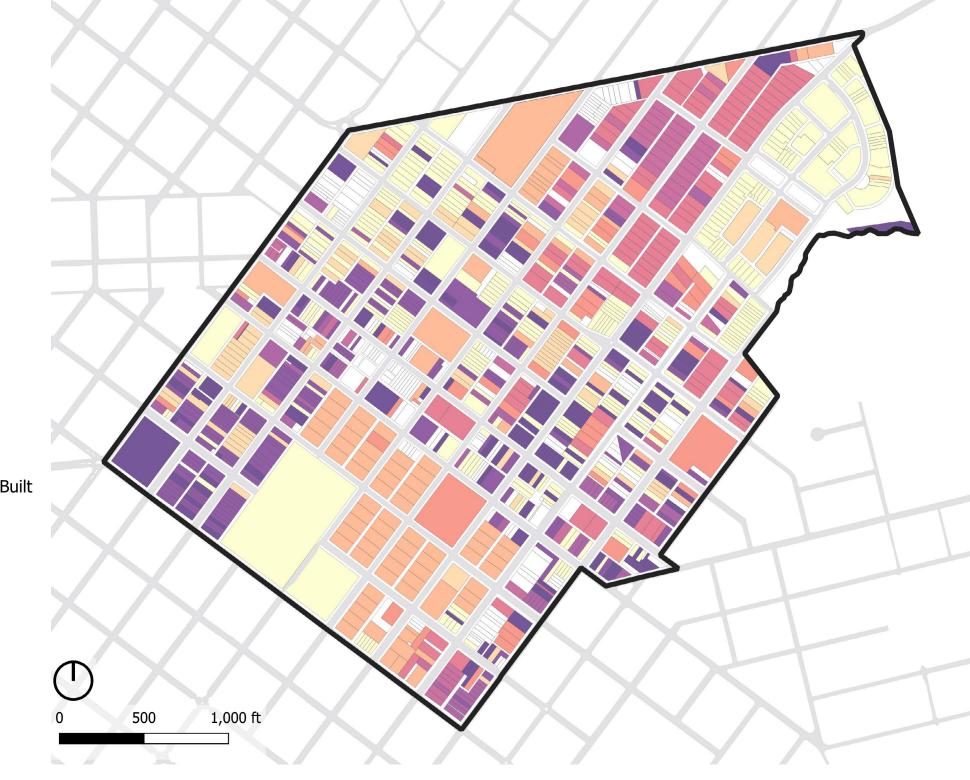


# RESIDENTIAL **TYPOLOGY**



# **HISTORIC PATTERN**

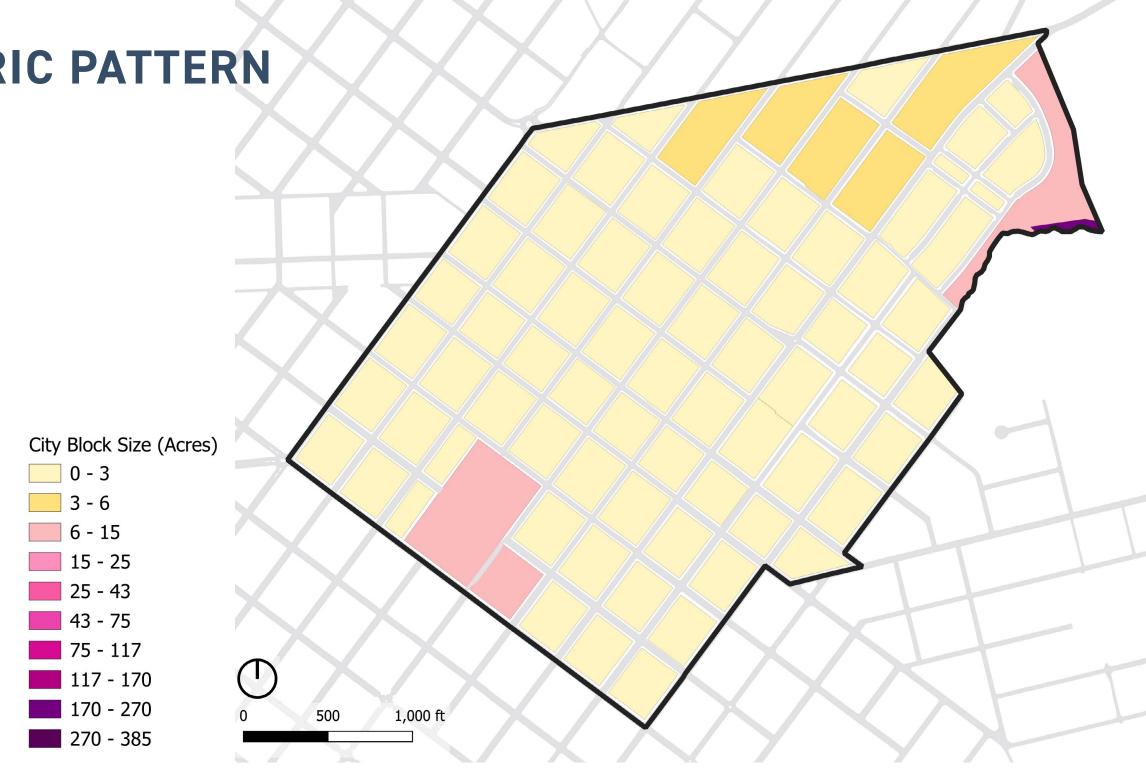
Parcels by Year built



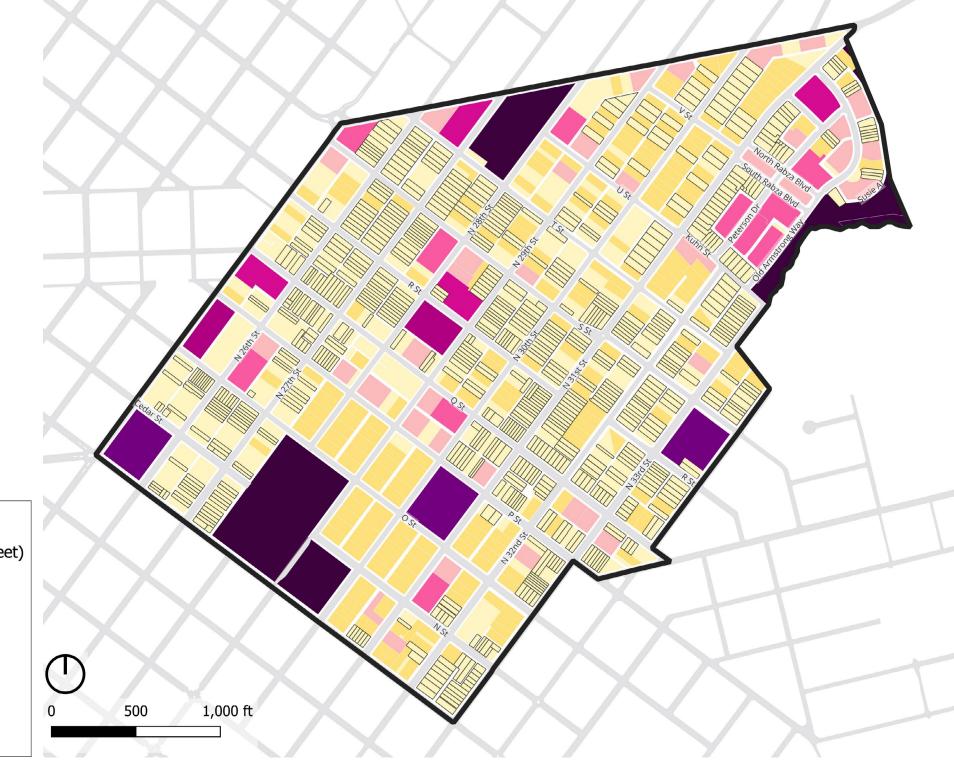
ASR Parcels by Year Built
Prior to 1800
1800 - 1900
1900 - 1920
1920 - 1930
1930 - 1945
1945 - 1960
1960 - 1975
1975 - 1995
1995 - 2010
Post 2010

# **URBAN FABRIC PATTERN**

Blocks by size.



## **PARCEL SIZES**



Parcels by size
(thousands of square feet)

0 - 6

6 - 10

10 - 22

22 - 36

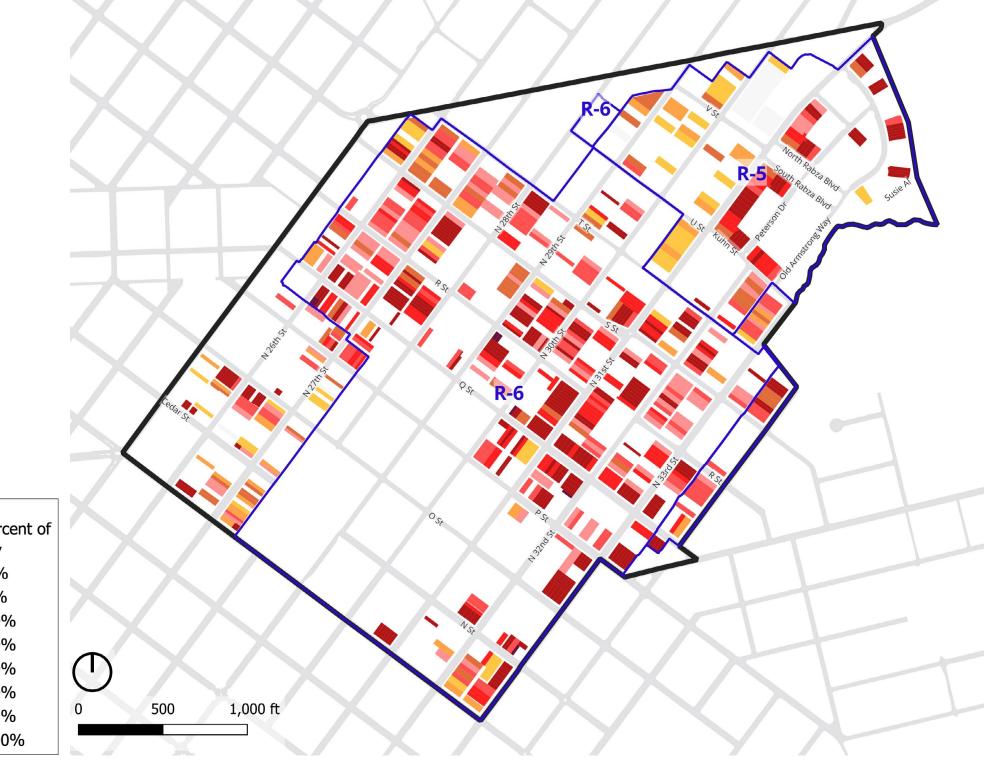
36 - 44

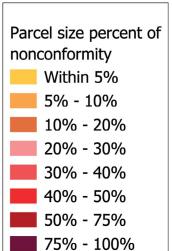
44 - 66

66 - 100

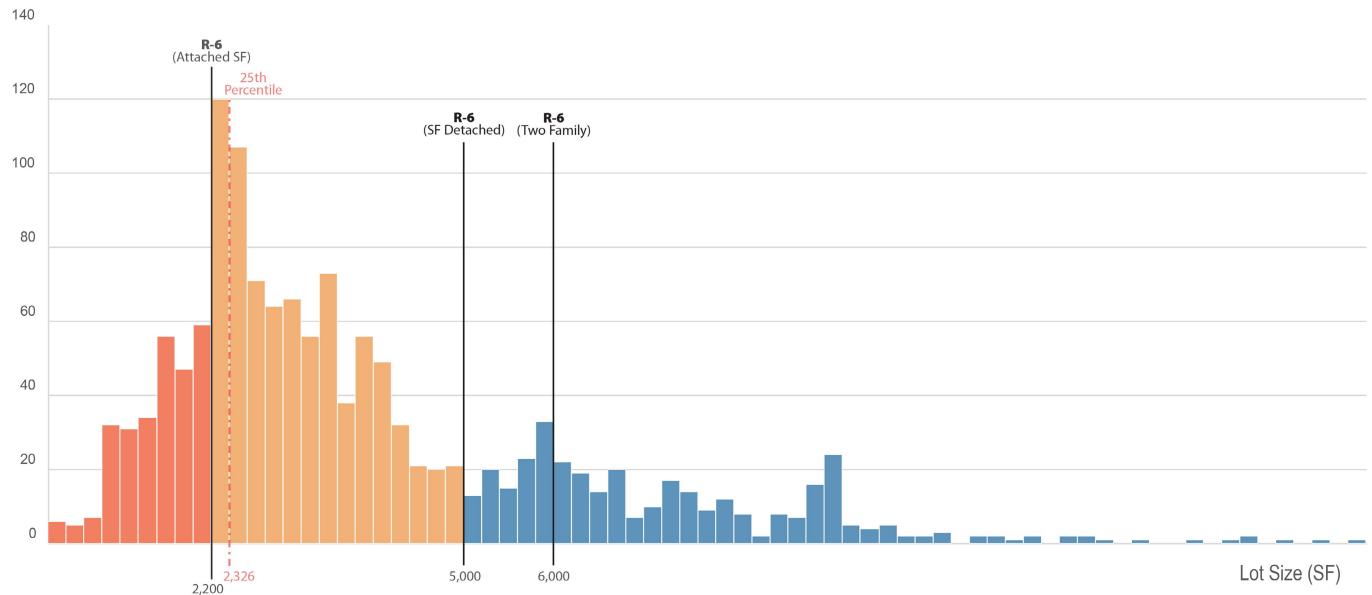
100+

# PARCEL SIZE NONCONFORMITY



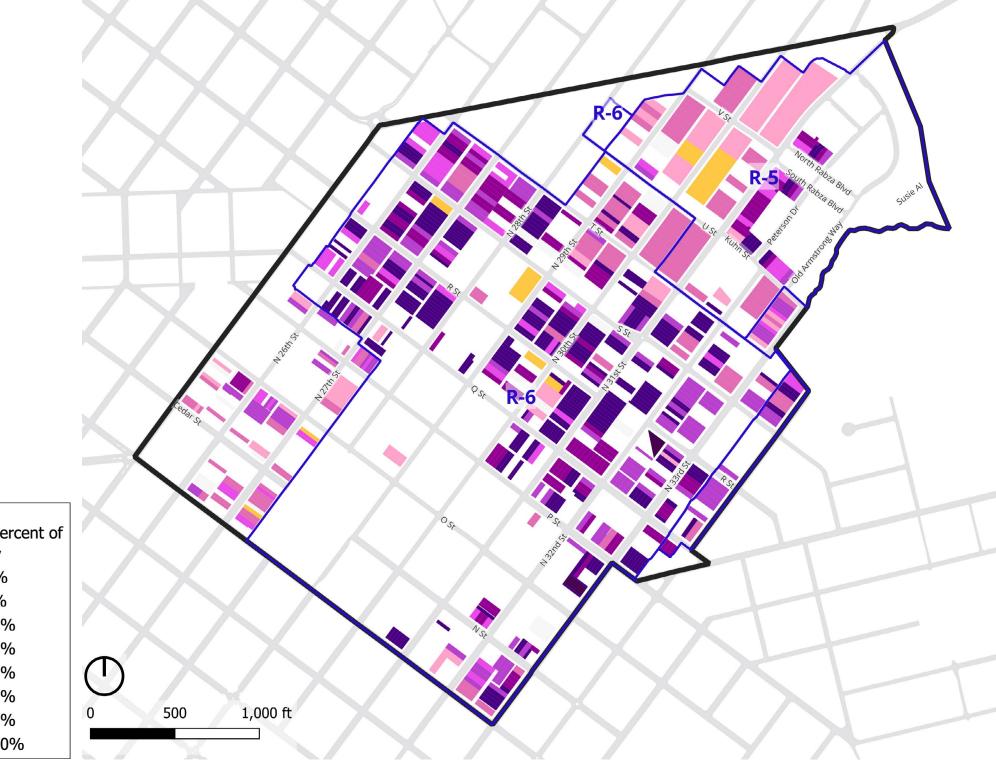


## PARCEL SIZE DISTRIBUTION

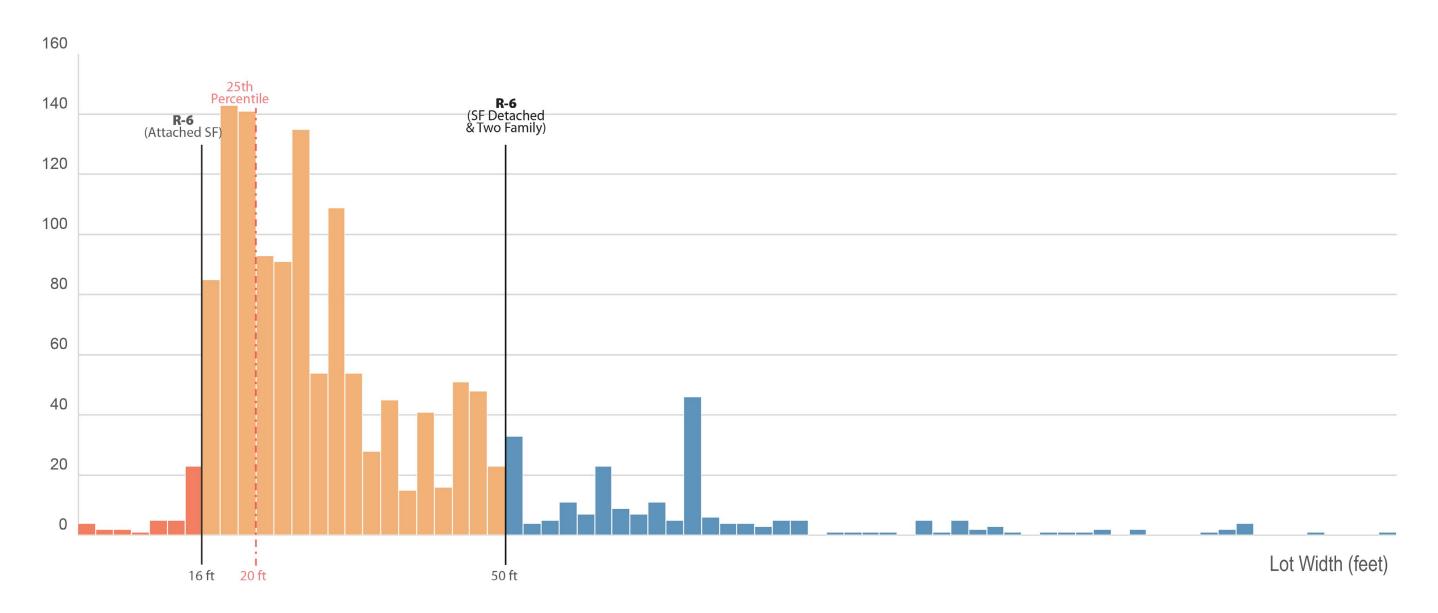


44

## PARCEL FRONTAGE



## PARCEL FRONTAGE DISTRIBUTION



46

## **NONCONFORMITIES**

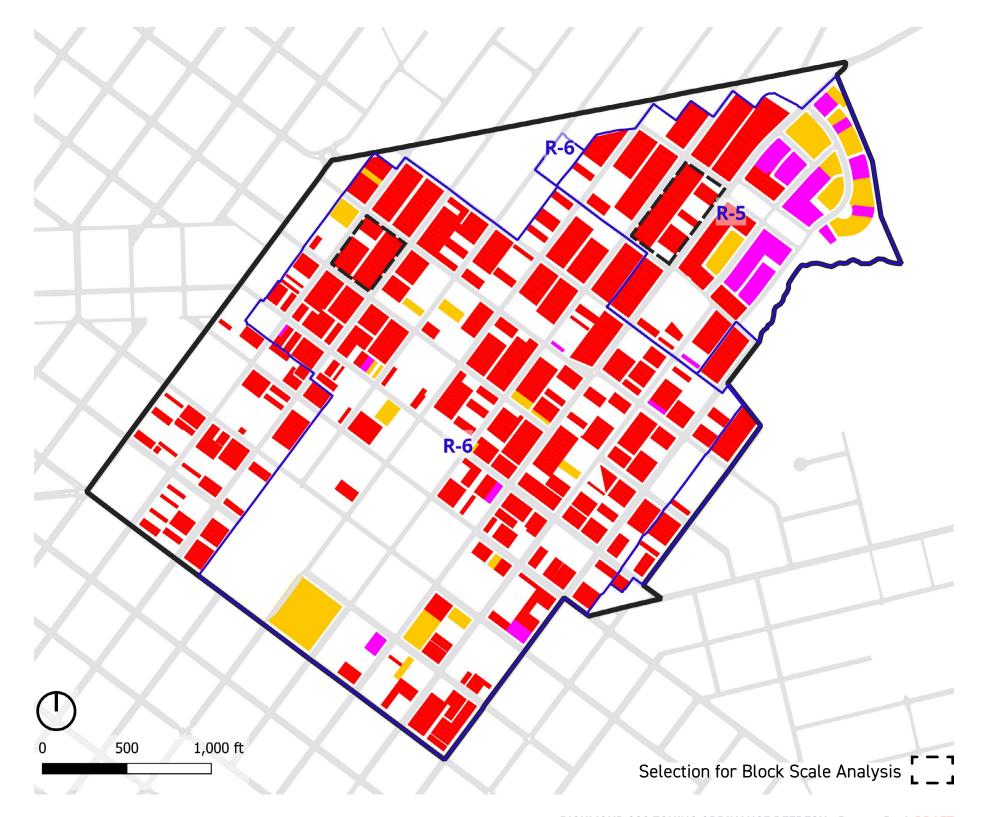
65% of all parcels in Church
Hill North are nonconforming based
on lot size, lot coverage, building
height, frontage, and/or use.

3% Due to Use

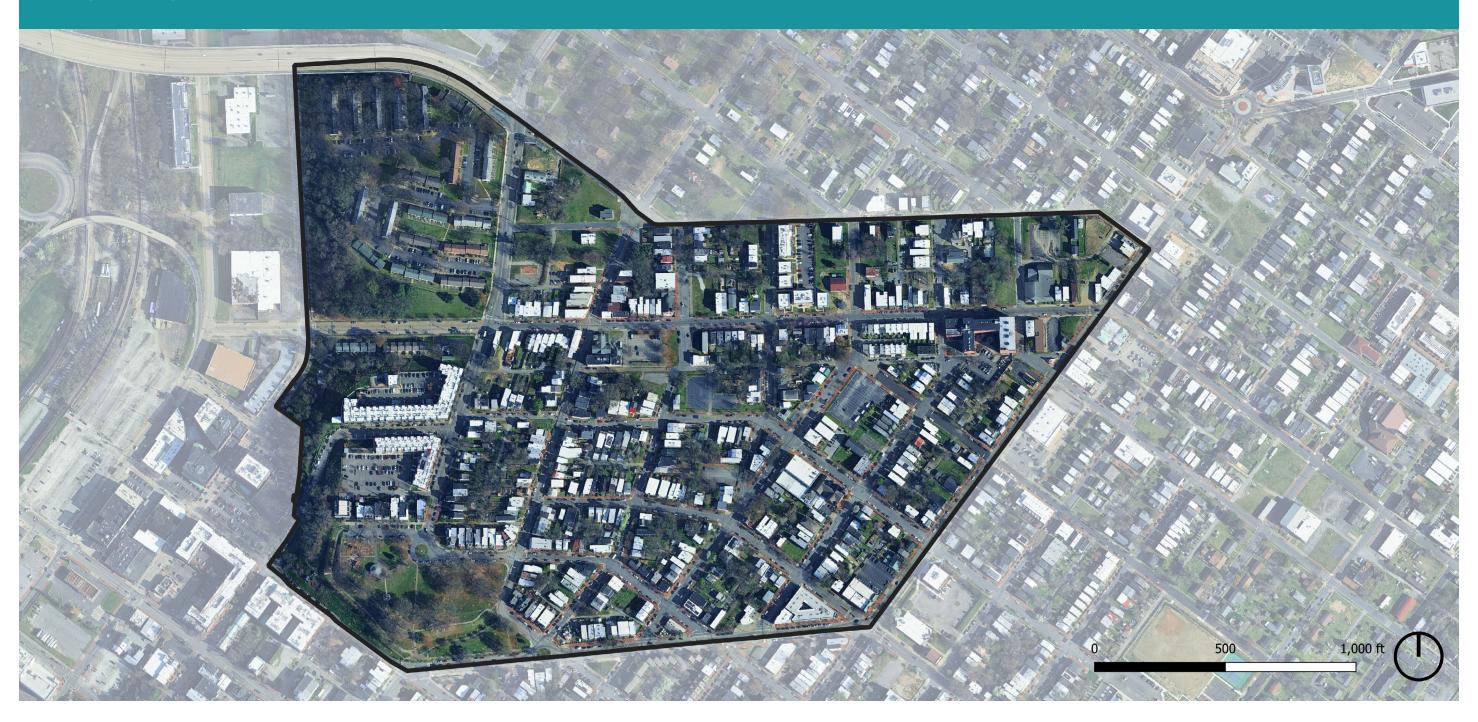
59% Due to Form

3% Due to Both

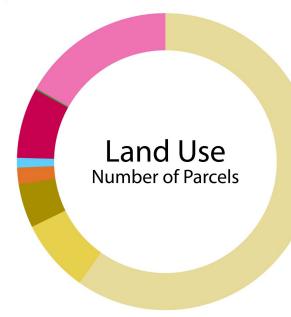
## **Predominantly zoned R-6 and R-5**



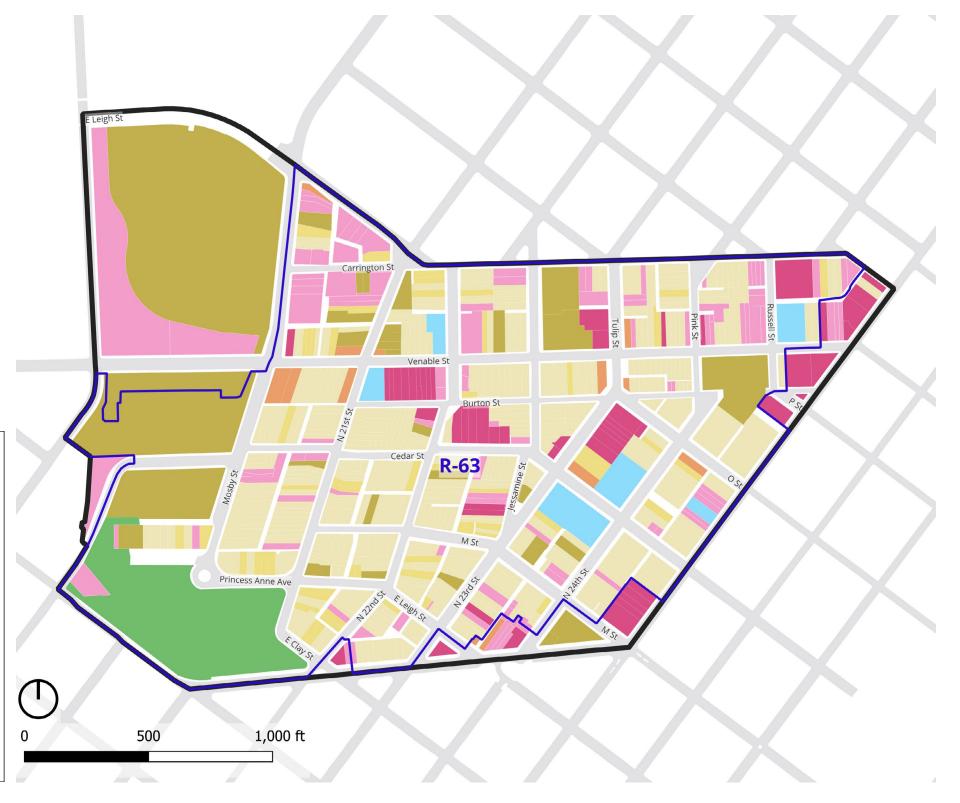
# 4. UNION HILL



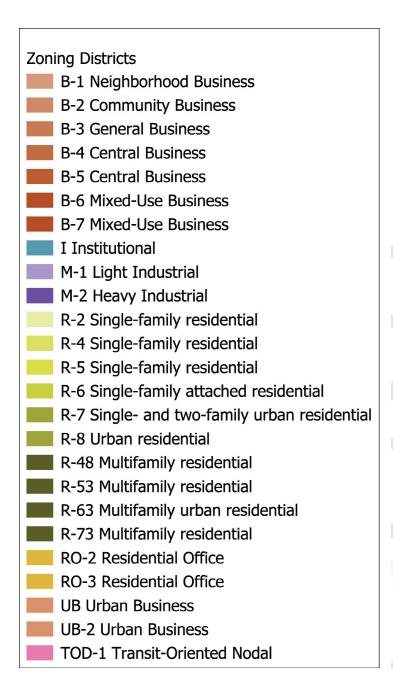
## LAND USE







## **CURRENT ZONING**





# **SPECIAL USE PERMITS**

Special Use Permits (SUPs) by location within the neighborhood.

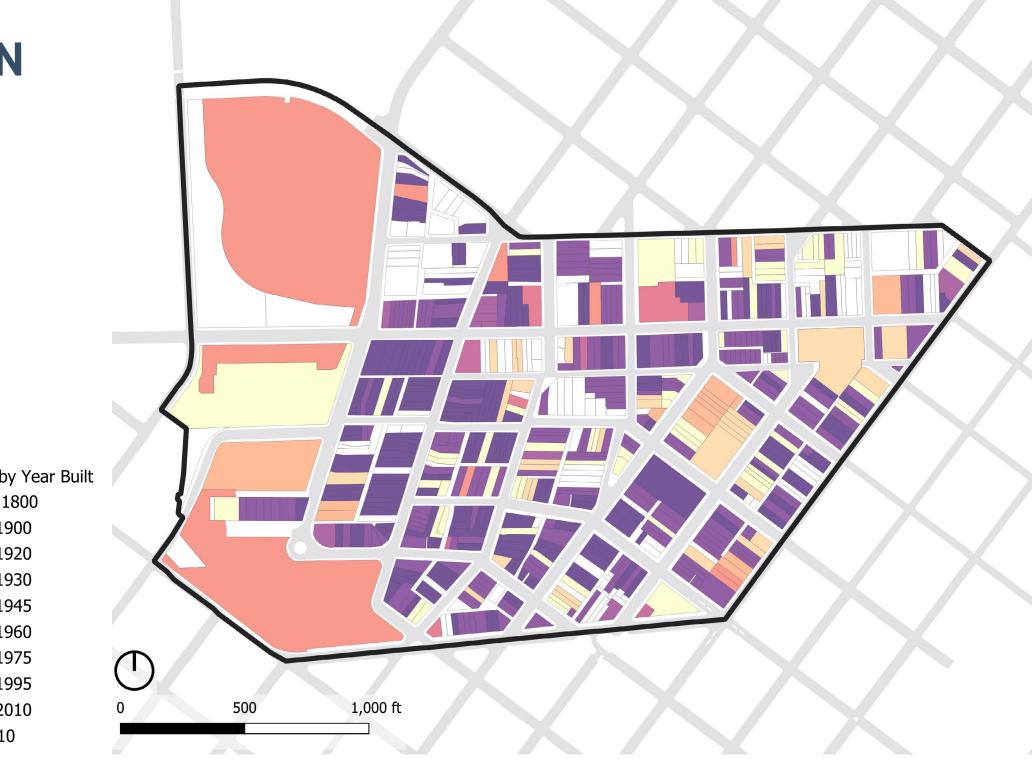


# RESIDENTIAL TYPOLOGY



# **HISTORIC PATTERN**

Parcels by Year built



**URBAN FABRIC PATTERN** 

0 - 3

6 - 15

15 - 25

25 - 43

43 - 75

75 - 117

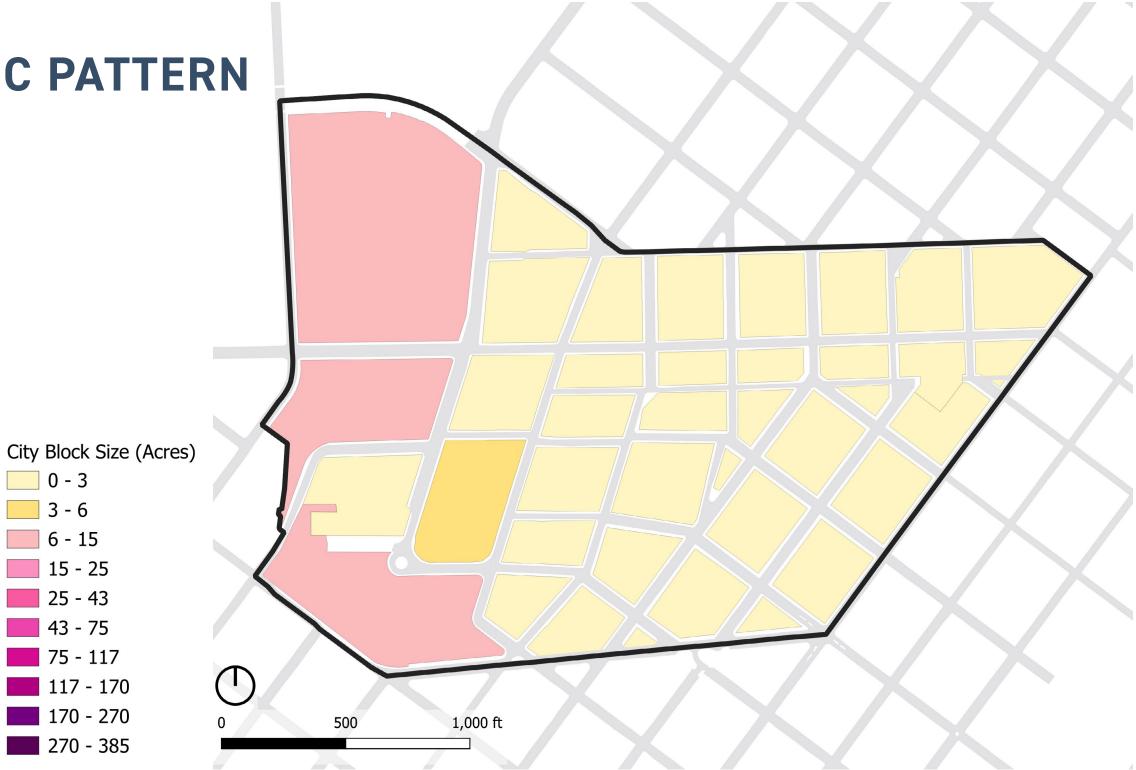
117 - 170

170 - 270

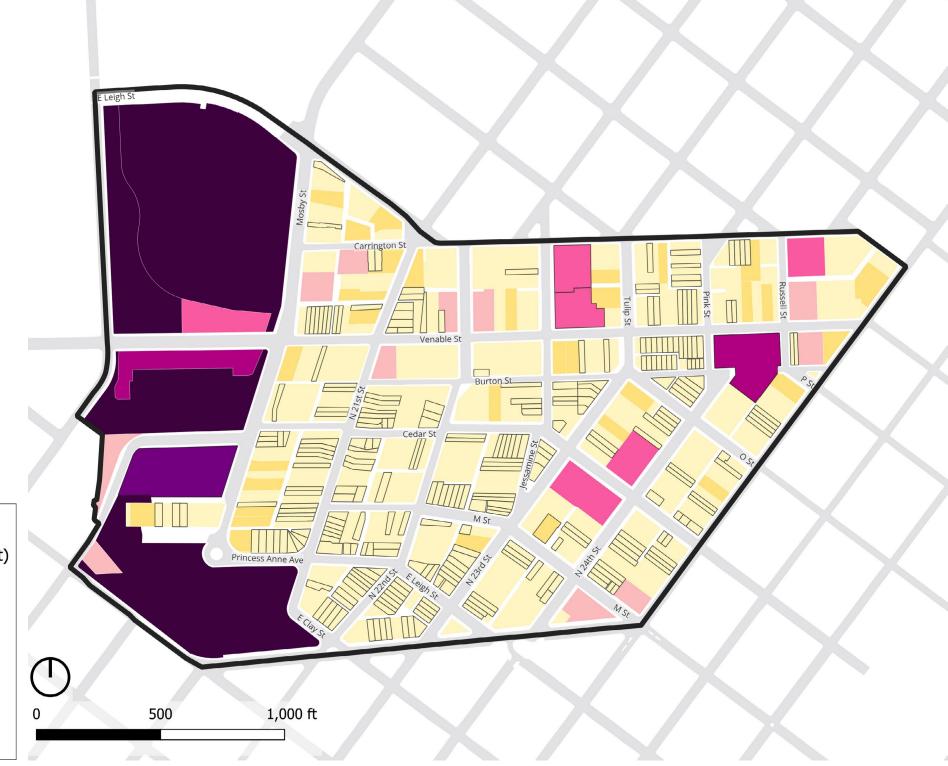
270 - 385

Blocks by size.

54



## **PARCEL SIZES**



Parcels by size
(thousands of square feet)

0 - 6

6 - 10

10 - 22

22 - 36

36 - 44

44 - 66

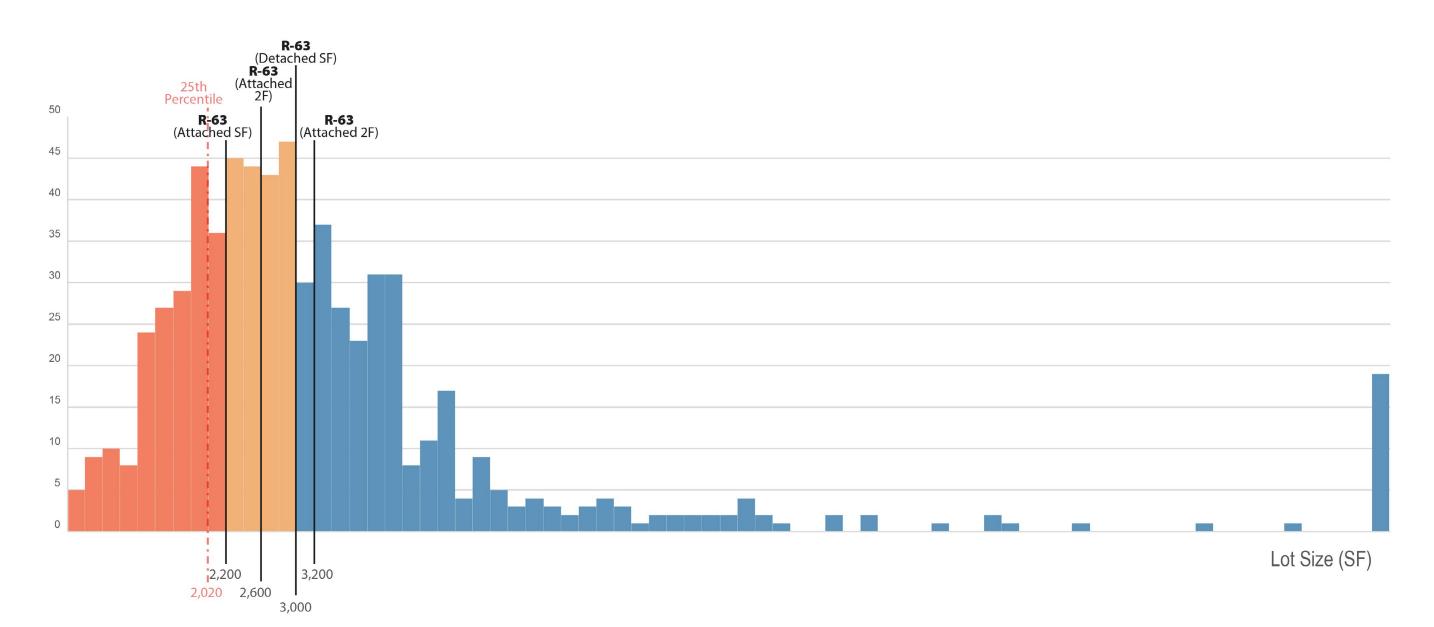
66 - 100

100+

# PARCEL SIZE NONCONFORMITY



## PARCEL SIZE DISTRIBUTION

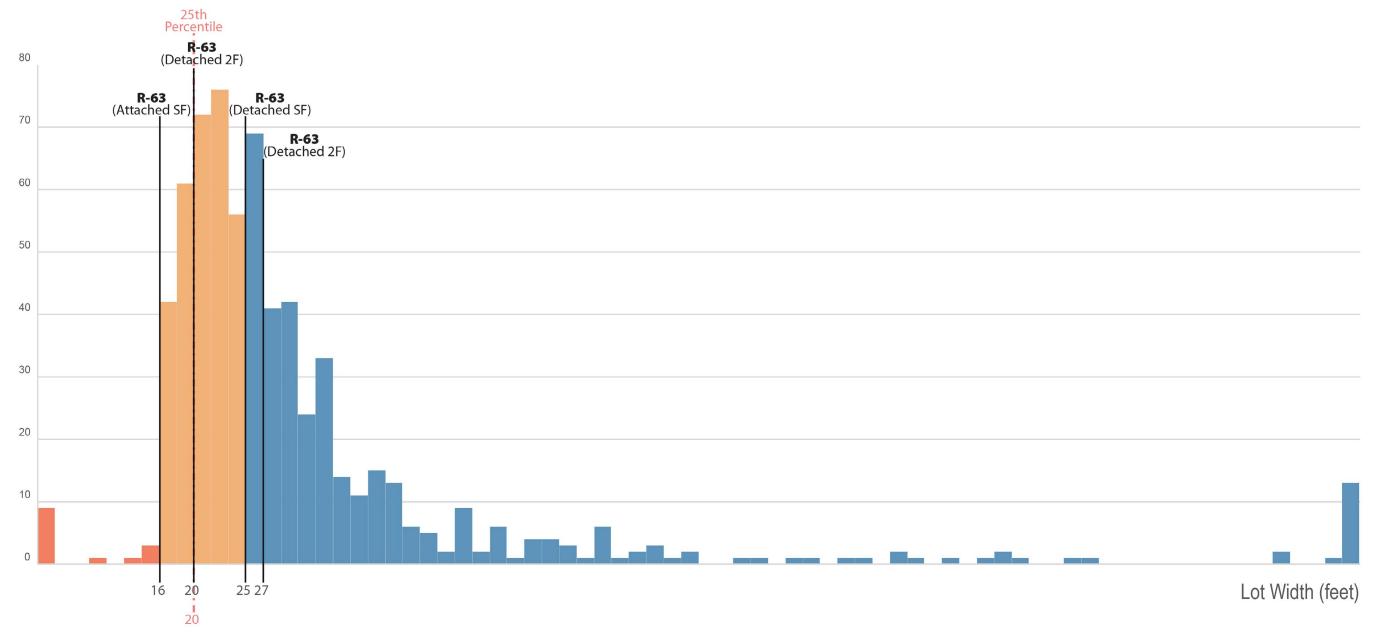


57

## PARCEL FRONTAGE



## PARCEL FRONTAGE DISTRIBUTION



## **NONCONFORMITIES**

**51%** of all parcels in Union Hill are nonconforming based on lot size, lot coverage, building height, frontage, and/or use.

0% Due to Use

51% Due to Form

0% Due to Both

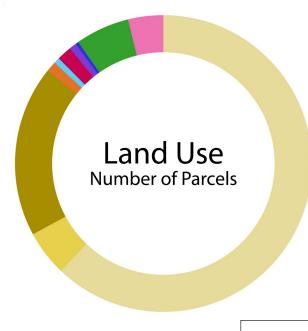
## **Predominantly zoned R-63**

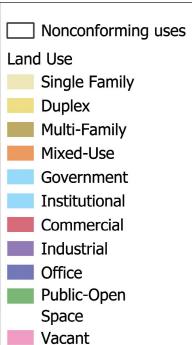


# 5. OREGON HILL



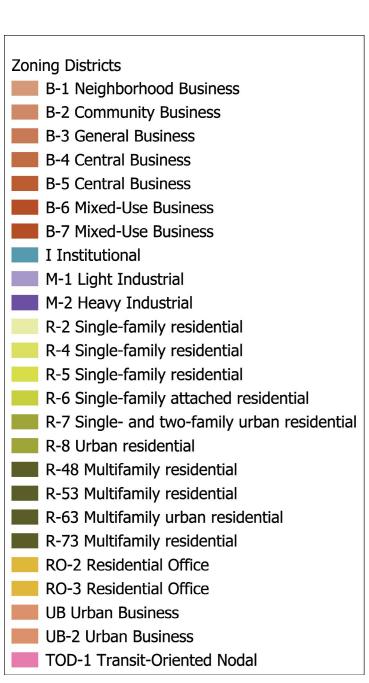
# **LAND USE**







## **CURRENT ZONING**





# **SPECIAL USE PERMITS**

Special Use Permits (SUPs) by location within the neighborhood.



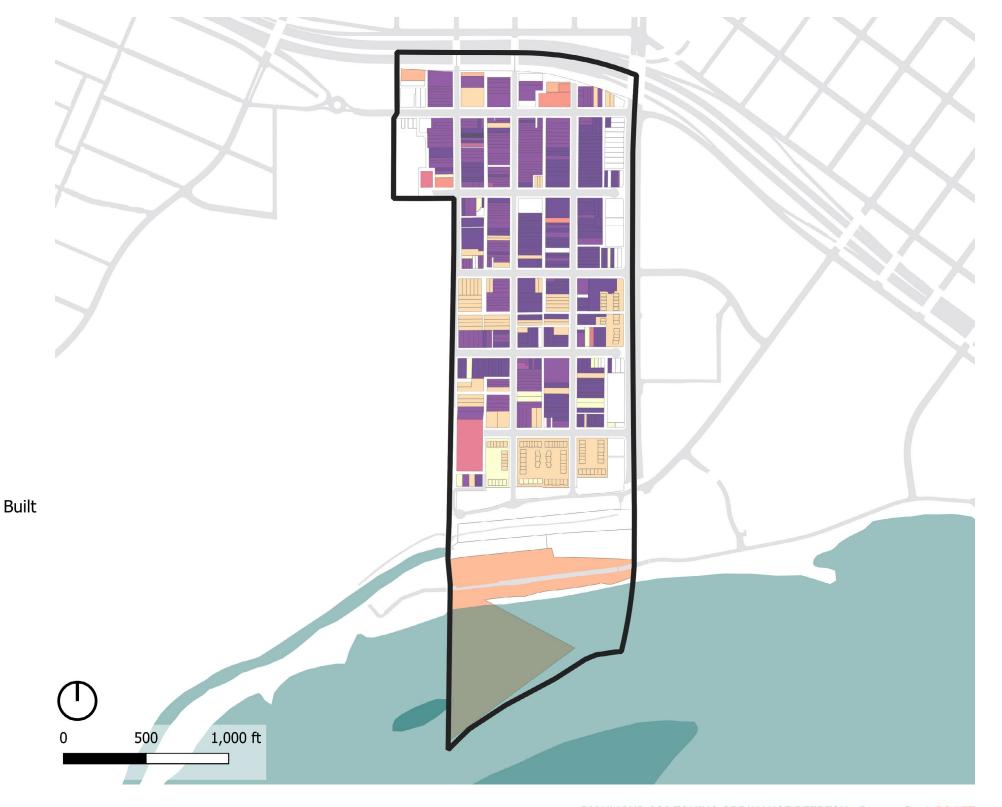
# RESIDENTIAL **TYPOLOGY**



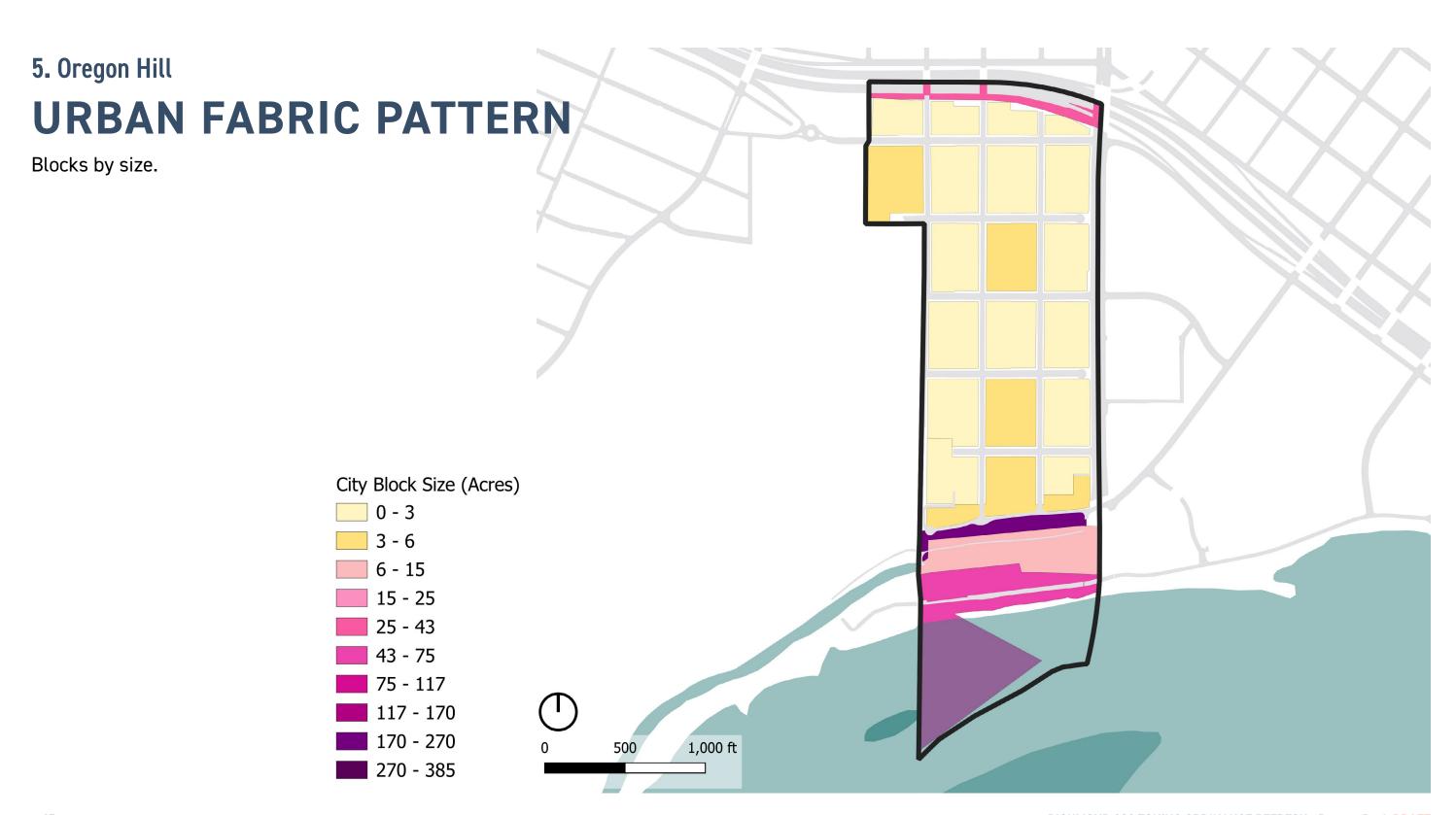
- 25-99 Units
- 10-50 Units
- 5-49 Units
- 1-10 Units Multi-Family
- Mixed Use
- Mobile Home Park
- Senior Living
- Four Family
- Three Family
- Two Family
- Two Story
- One Story
- Single Family

## **HISTORIC PATTERN**

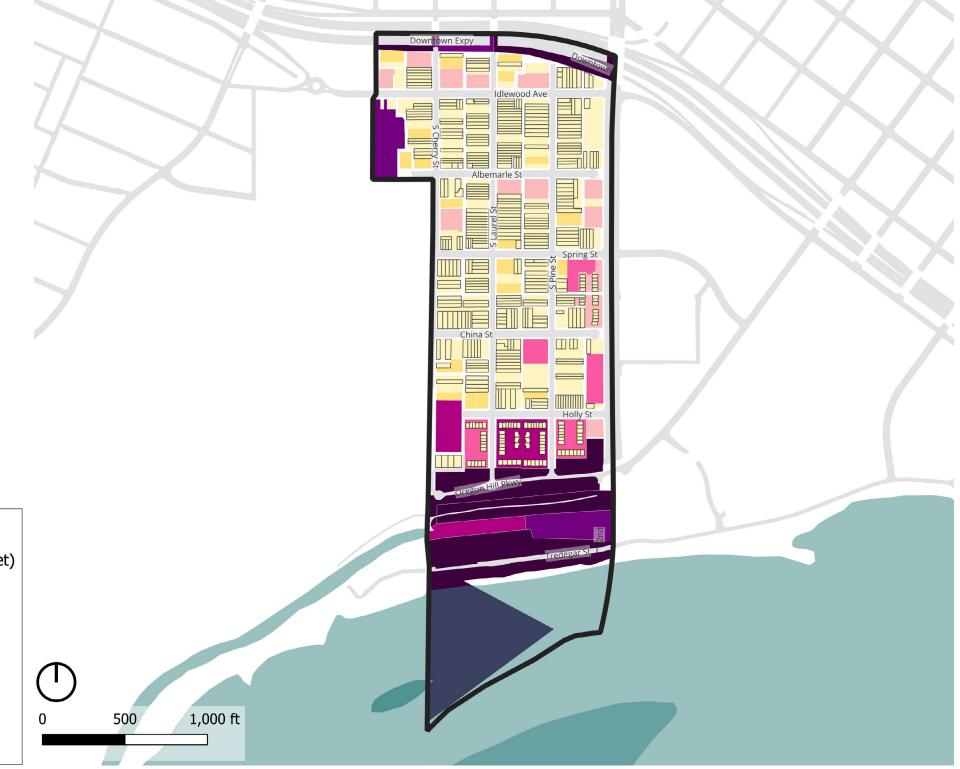
Parcels by Year built



ASR Parcels by Year Built
Prior to 1800
1800 - 1900
1900 - 1920
1920 - 1930
1930 - 1945
1945 - 1960
1960 - 1975
1975 - 1995
1995 - 2010
Post 2010



## **PARCEL SIZES**



Parcels by size
(thousands of square feet)

0 - 6

6 - 10

10 - 22

22 - 36

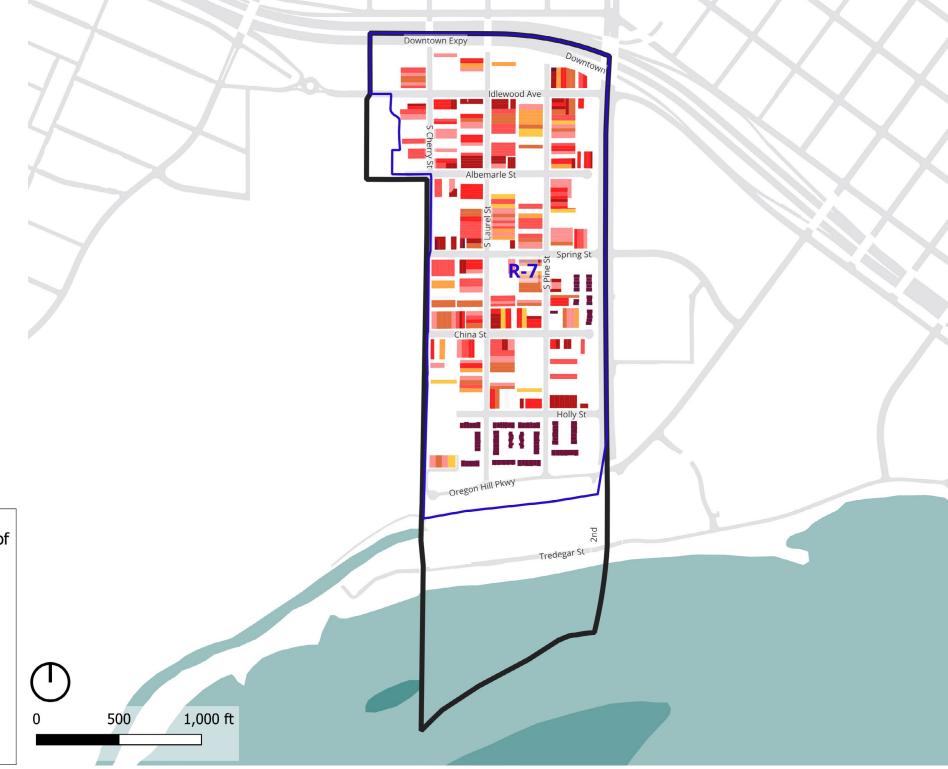
36 - 44

44 - 66

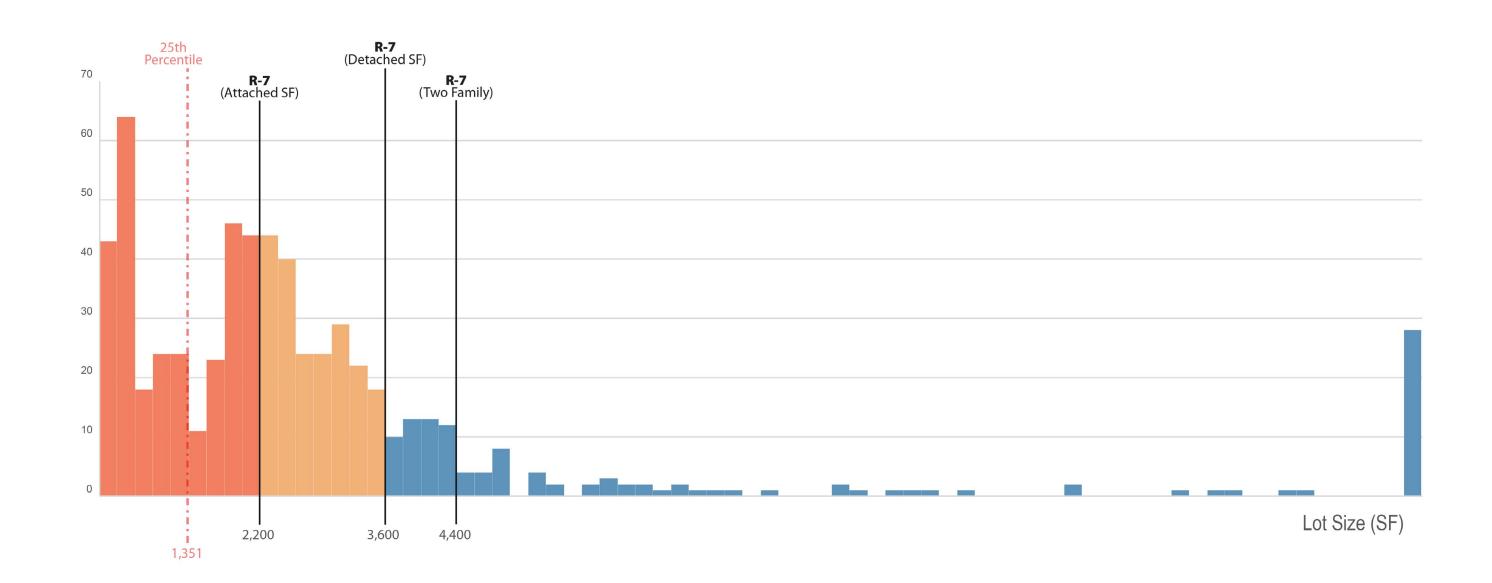
66 - 100

100+

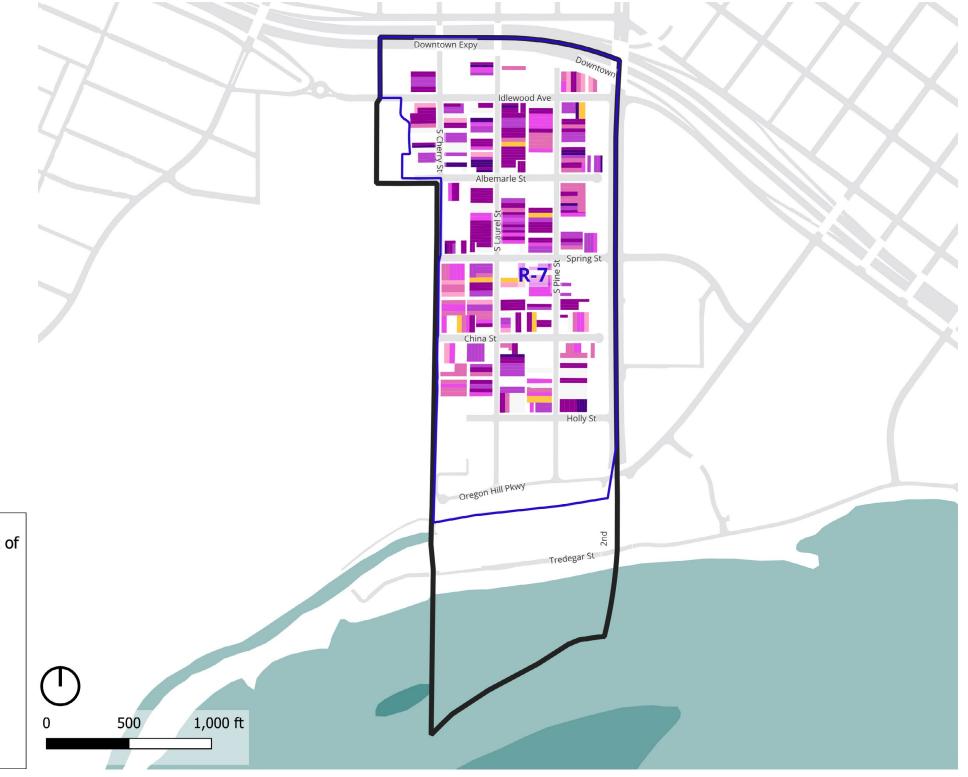
# PARCEL SIZE NONCONFORMITY



## PARCEL SIZE DISTRIBUTION



## PARCEL FRONTAGE



Parcel width percent of nonconformity

Within 5%

5% - 10%

10% - 20%

20% - 30%

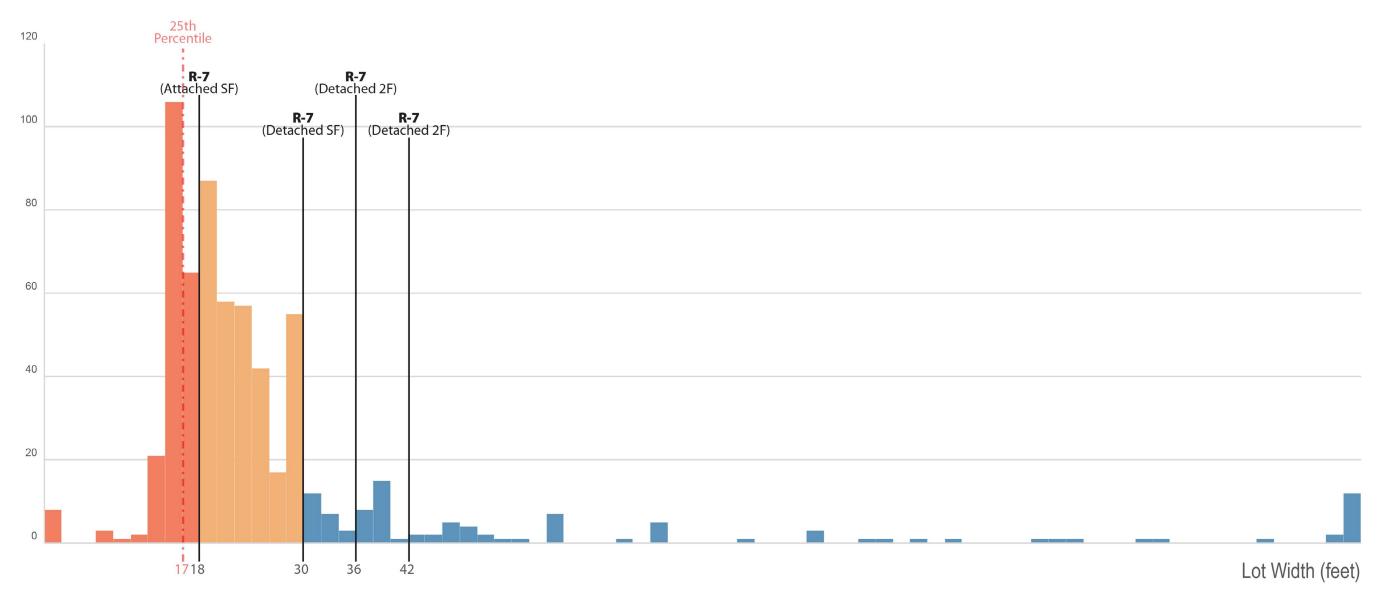
30% - 40%

40% - 50%

50% - 75%

75% - 100%

## PARCEL FRONTAGE DISTRIBUTION



#### 5. Oregon Hill

## **NONCONFORMITIES**

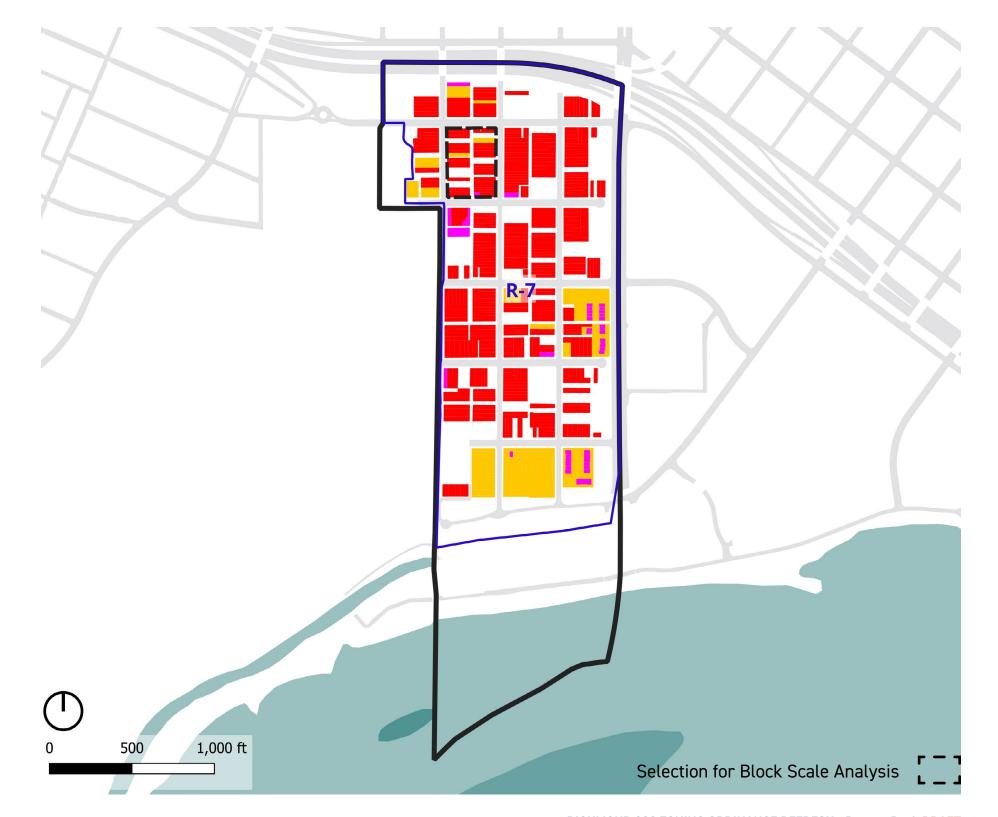
82% of all parcels in
Oregon Hill are nonconforming based on lot size, lot coverage, building height, frontage, and/or use.

13% Due to Use

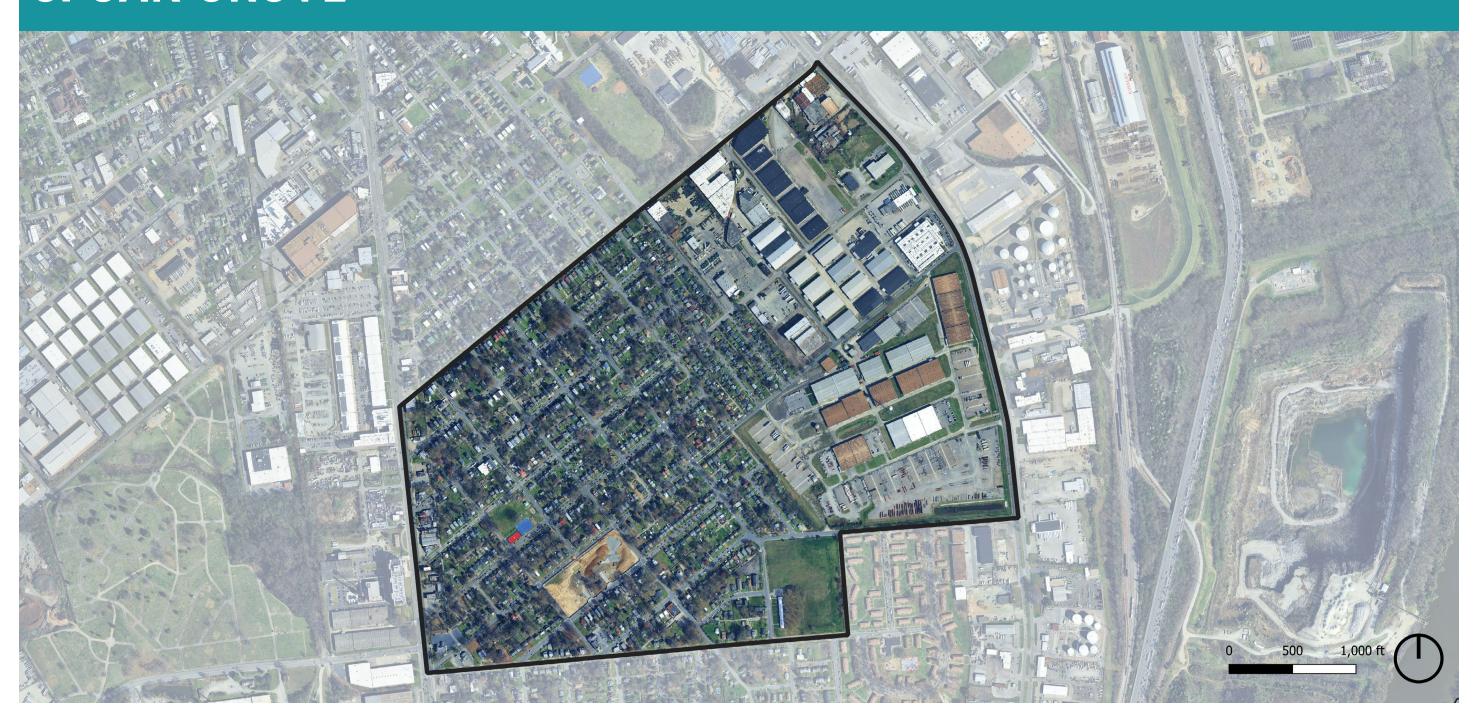
61% Due to Form

8% Due to Both

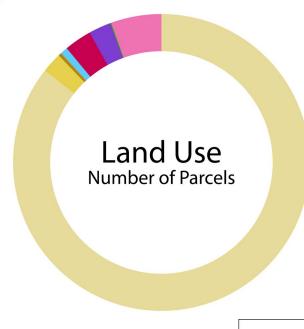
#### **Predominantly zoned R-7**

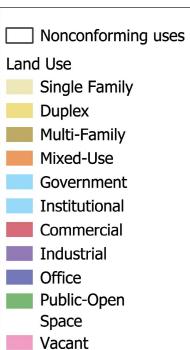


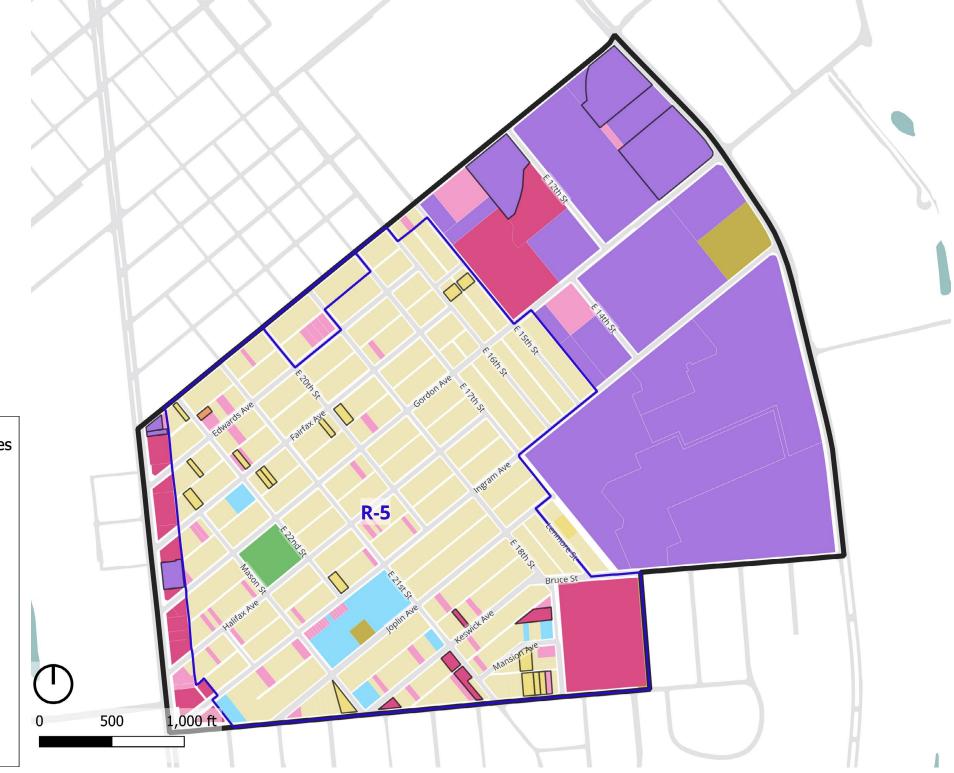
# 6. OAK GROVE



## LAND USE

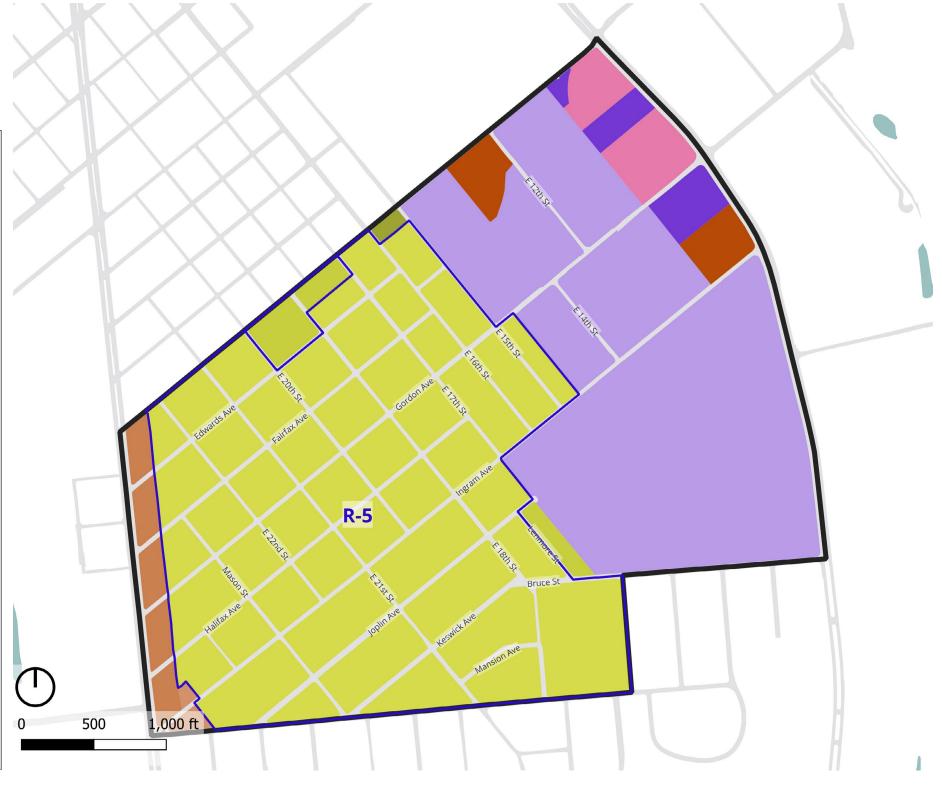






### **CURRENT ZONING**

#### **Zoning Districts** B-1 Neighborhood Business B-2 Community Business B-3 General Business B-4 Central Business B-5 Central Business B-6 Mixed-Use Business B-7 Mixed-Use Business I Institutional M-1 Light Industrial M-2 Heavy Industrial R-2 Single-family residential R-4 Single-family residential R-5 Single-family residential R-6 Single-family attached residential R-7 Single- and two-family urban residential R-8 Urban residential R-48 Multifamily residential R-53 Multifamily residential R-63 Multifamily urban residential R-73 Multifamily residential **RO-2 Residential Office RO-3 Residential Office** UB Urban Business UB-2 Urban Business TOD-1 Transit-Oriented Nodal



# **SPECIAL USE PERMITS**

Special Use Permits (SUPs) by location within the neighborhood.



# RESIDENTIAL TYPOLOGY



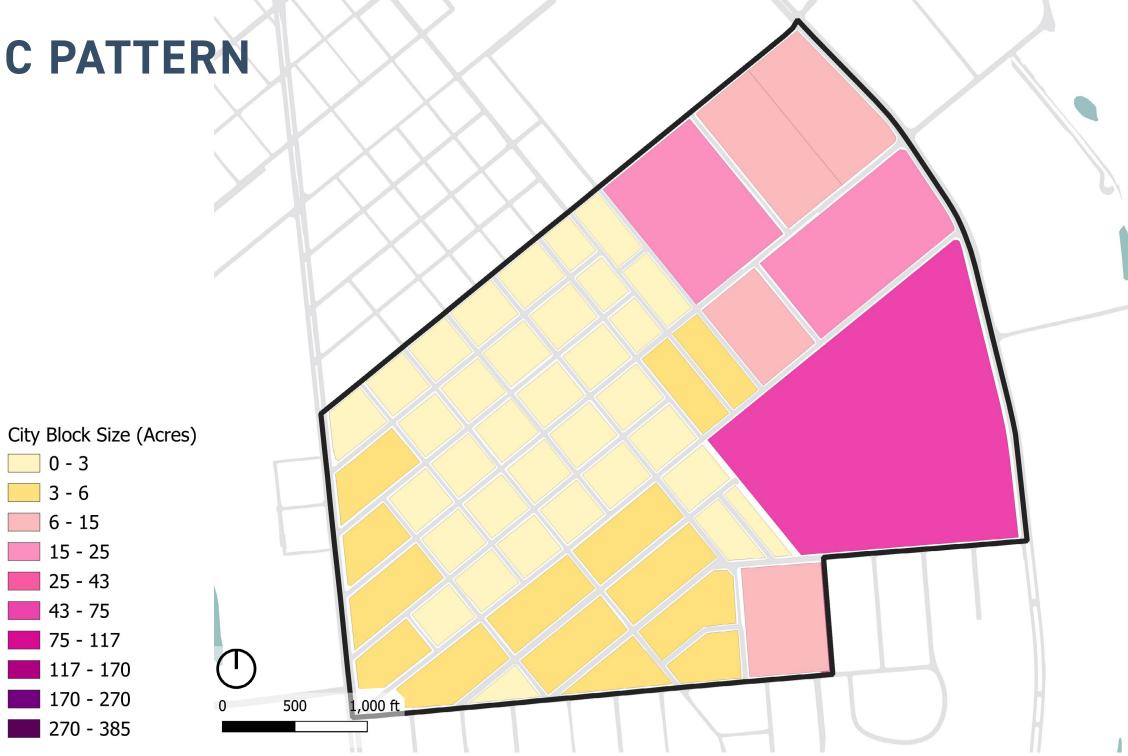
## **HISTORIC PATTERN**

Parcels by Year built

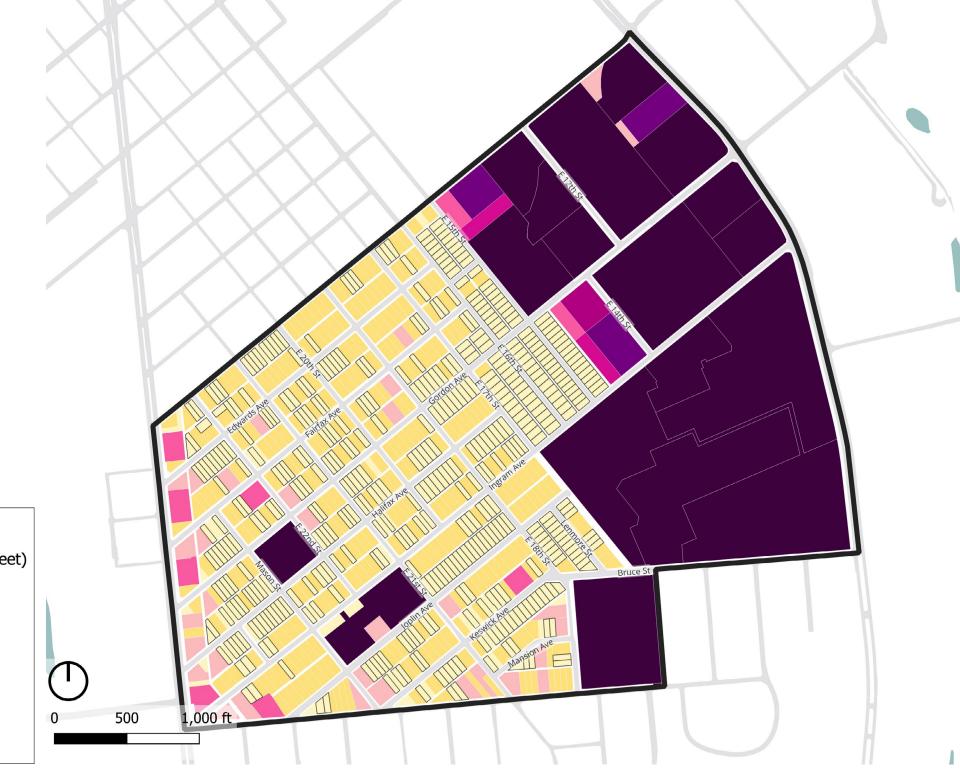


## **URBAN FABRIC PATTERN**

Blocks by size.



## **PARCEL SIZES**



Parcels by size
(thousands of square feet)

0 - 6

6 - 10

10 - 22

22 - 36

36 - 44

44 - 66

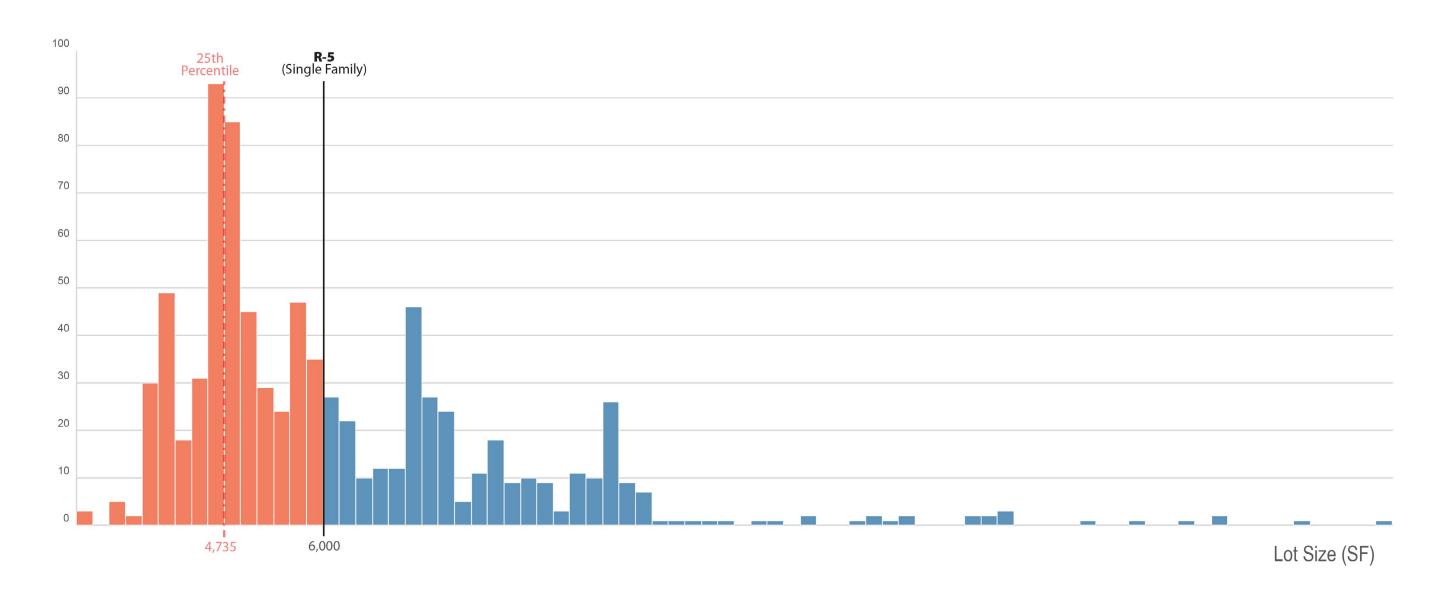
66 - 100

100+

# **PARCEL SIZE NONCONFORMITY**



## PARCEL SIZE DISTRIBUTION

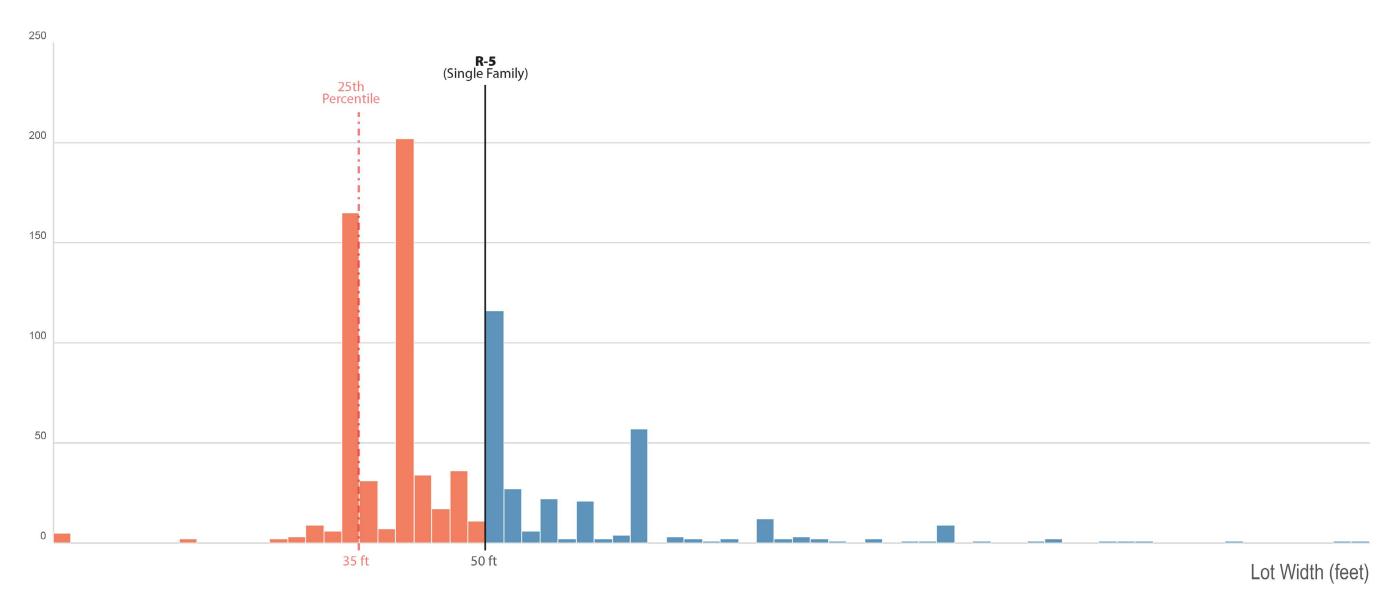


83

## PARCEL FRONTAGE



## PARCEL SIZE DISTRIBUTION



85

## **NONCONFORMITIES**

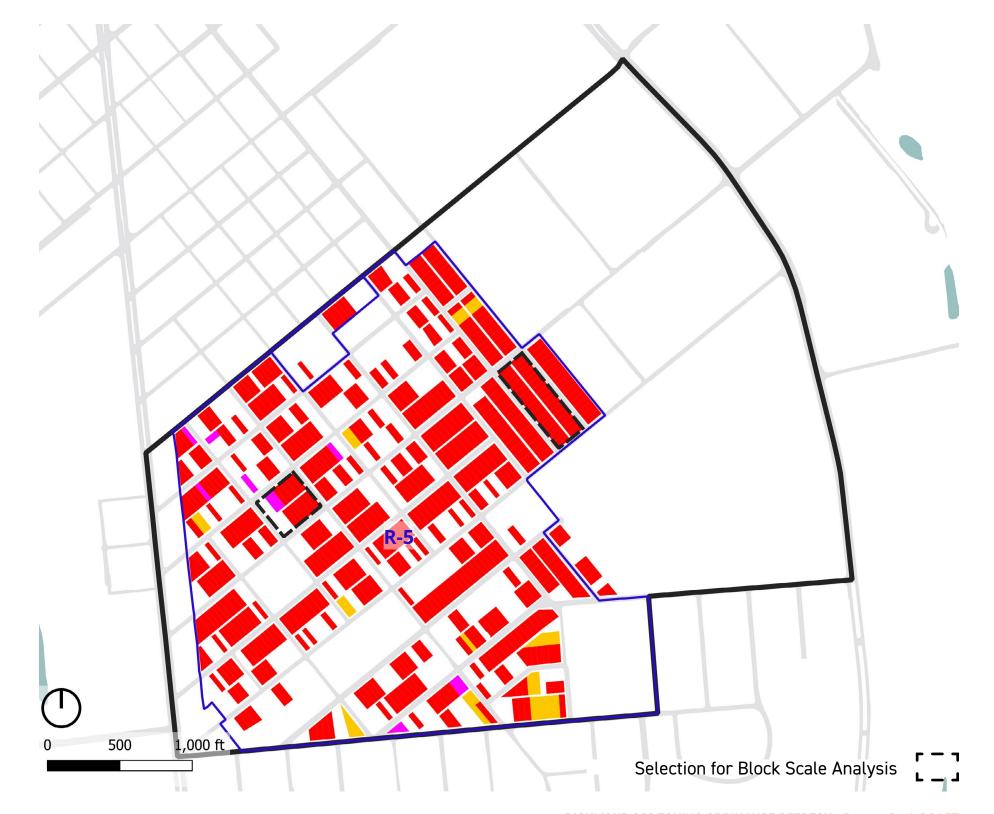
68% of all parcels in Oak
Grove are nonconforming based on
lot size, lot coverage, building height,
frontage, and/or use.

2.5% Due to Use

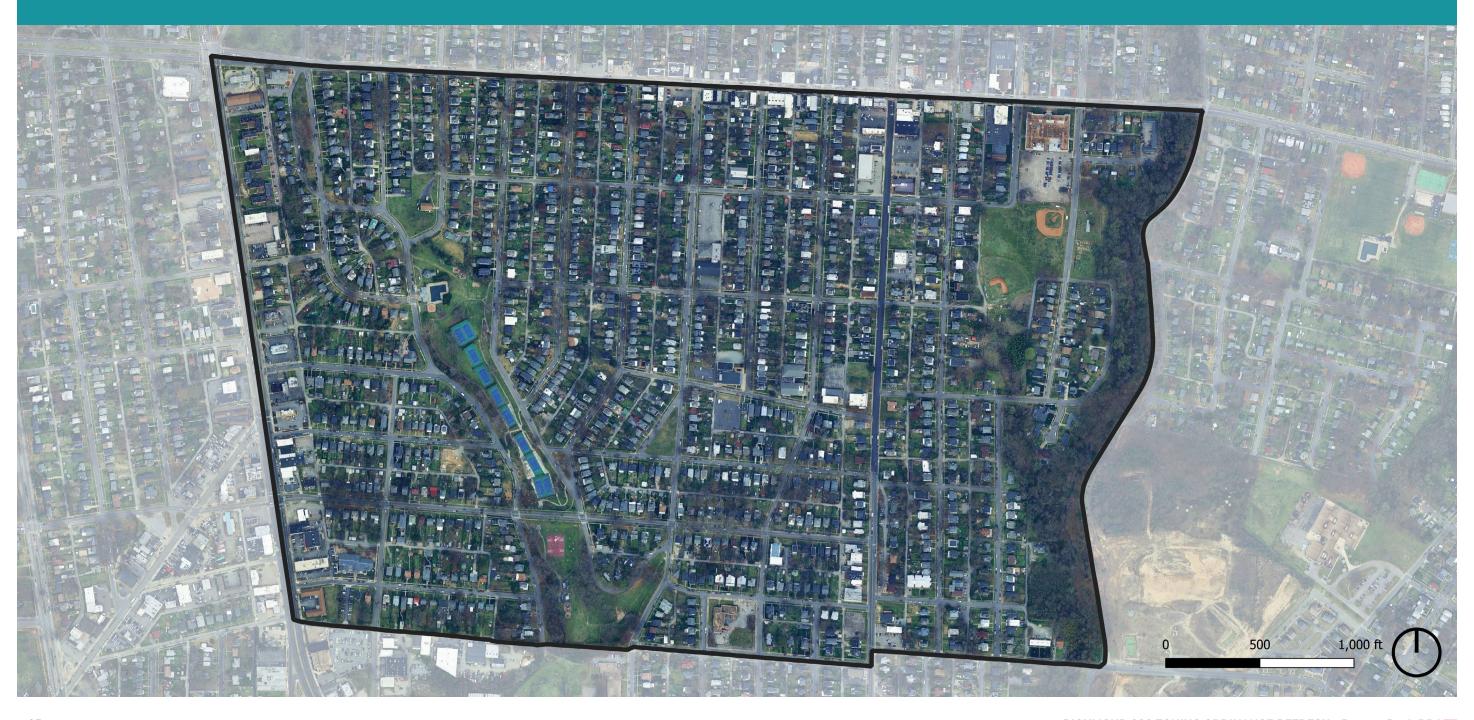
65% Due to Form

0.5% Due to Both

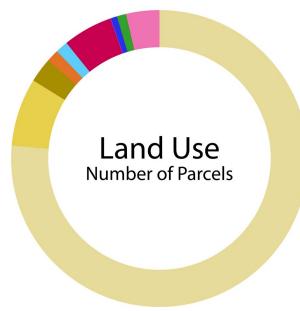
#### **Predominantly zoned R-5**



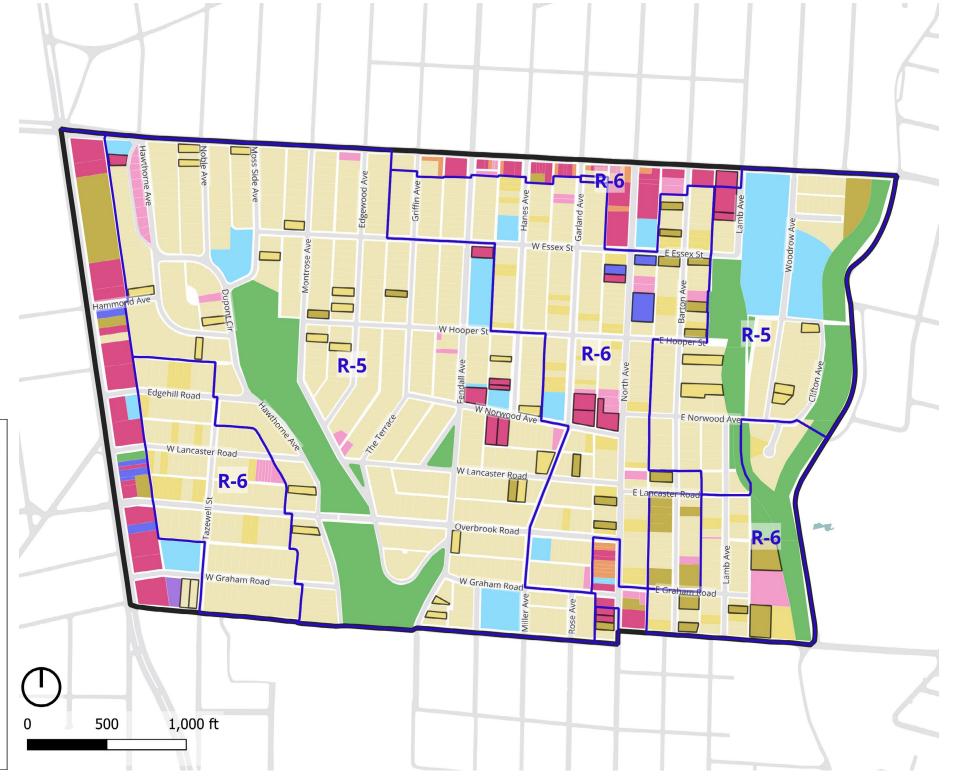
# 7. NORTHERN BARTON HEIGHTS



## **LAND USE**

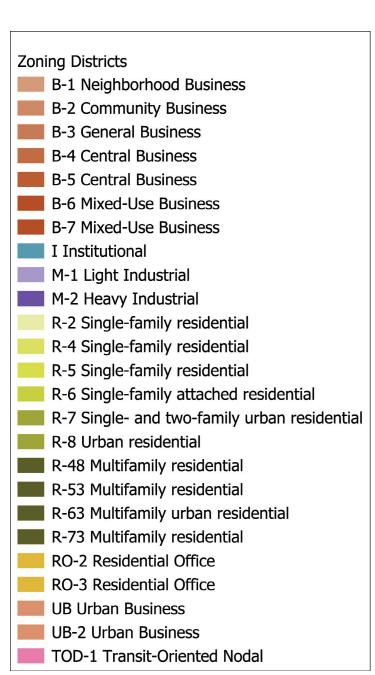


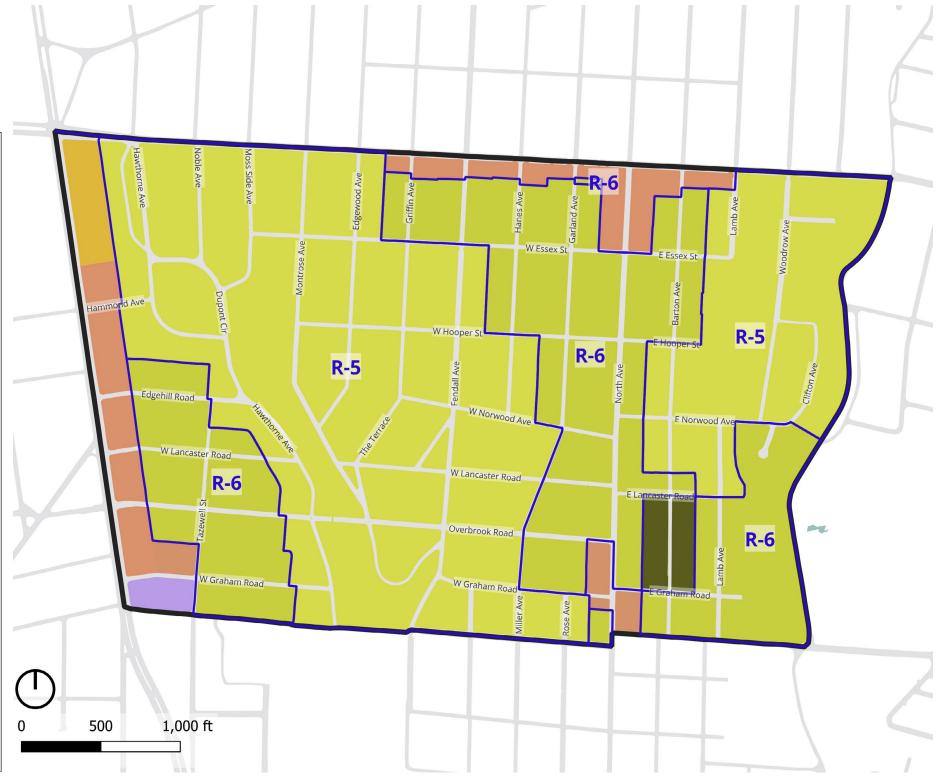




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### **CURRENT ZONING**





## **SPECIAL USE PERMITS**

Special Use Permits (SUPs) by location within the neighborhood.



90 RICHMOND 300 ZONING ORDINANCE REFRESH - Pattern Book DRAFT

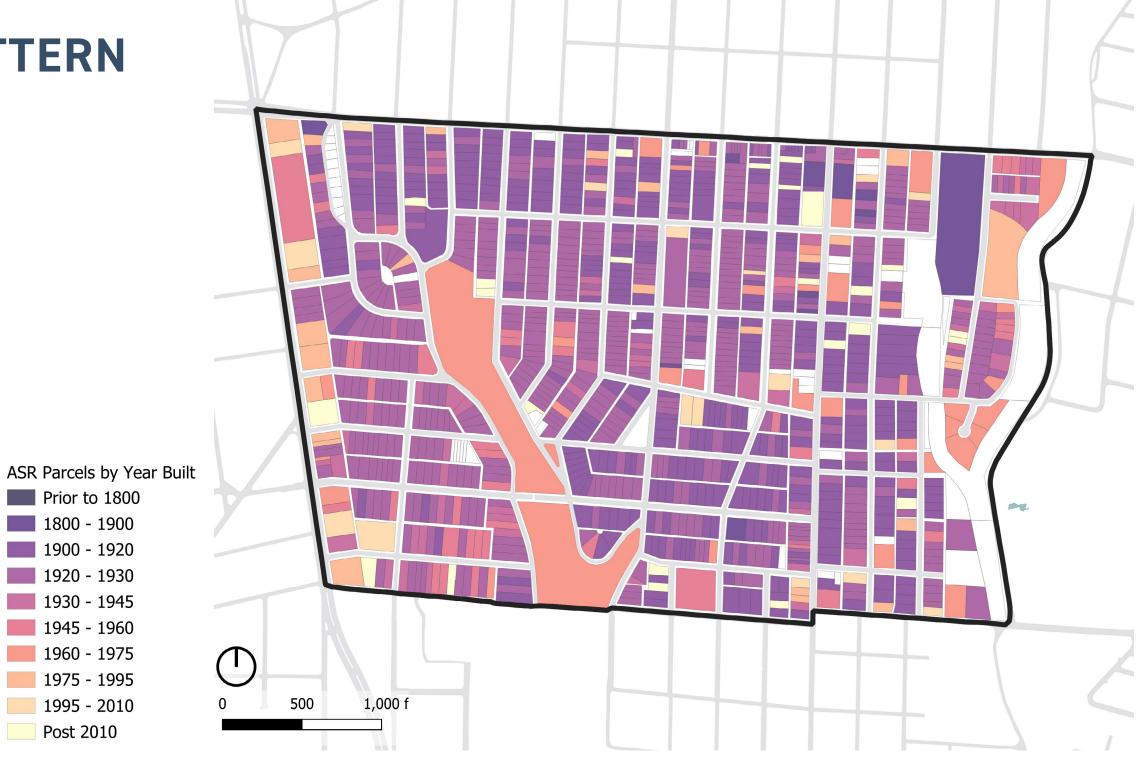
# RESIDENTIAL **TYPOLOGY**

91



## **HISTORIC PATTERN**

Parcels by Year built





**URBAN FABRIC PATTERN** 

0 - 3

6 - 15

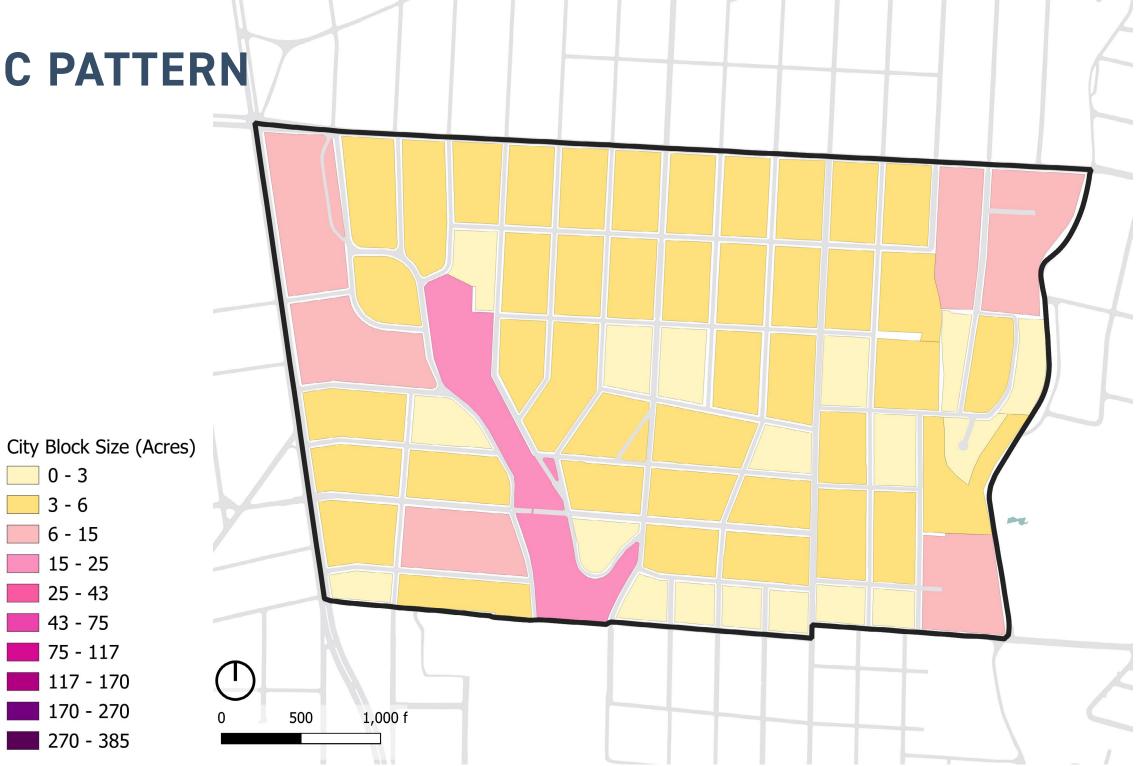
15 - 25

25 - 43

43 - 75

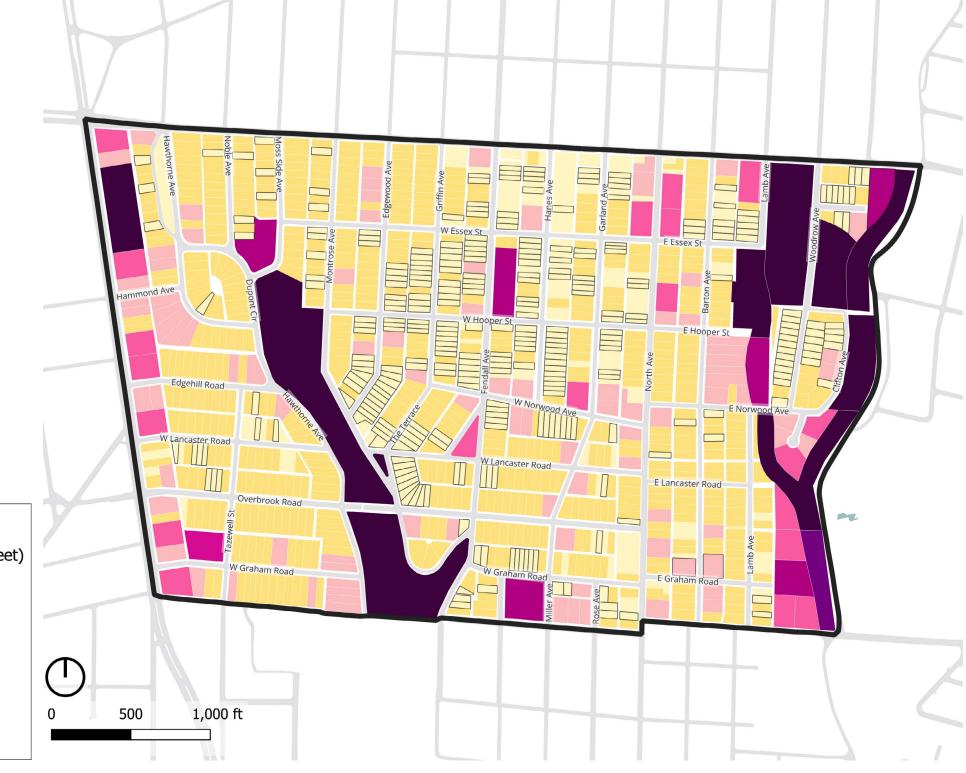
75 - 117

Blocks by size.



93

## **PARCEL SIZES**



Parcels by size
(thousands of square feet)

0 - 6

6 - 10

10 - 22

22 - 36

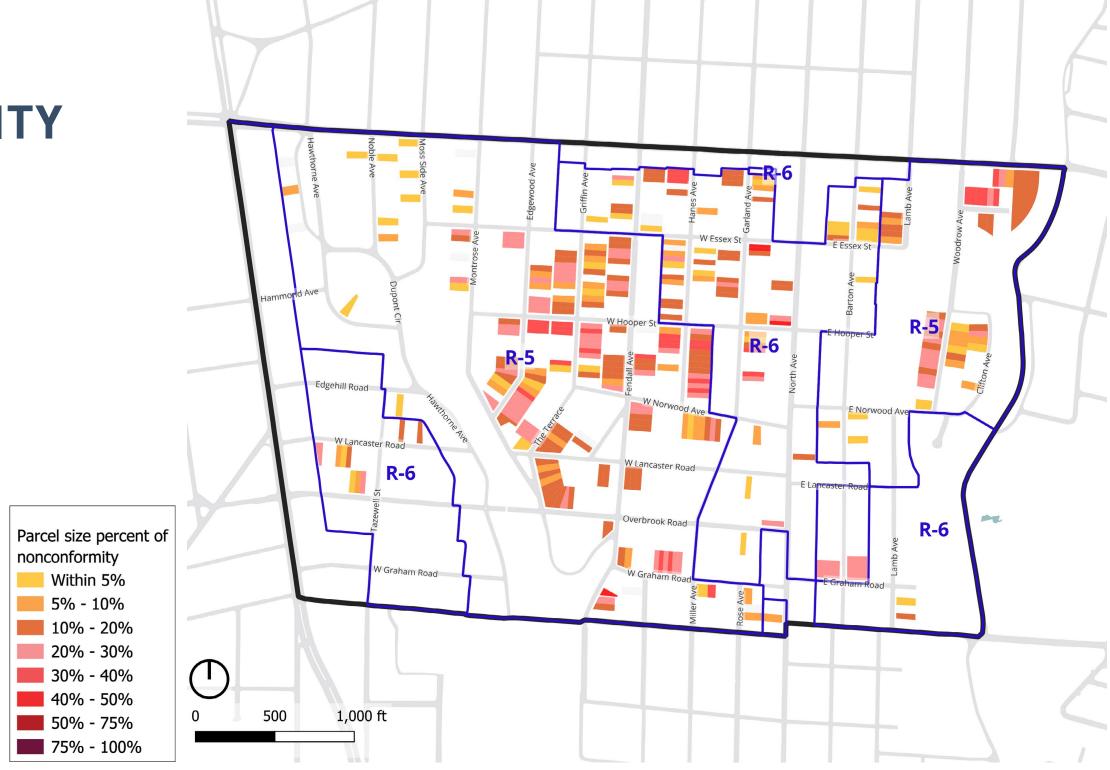
36 - 44

44 - 66

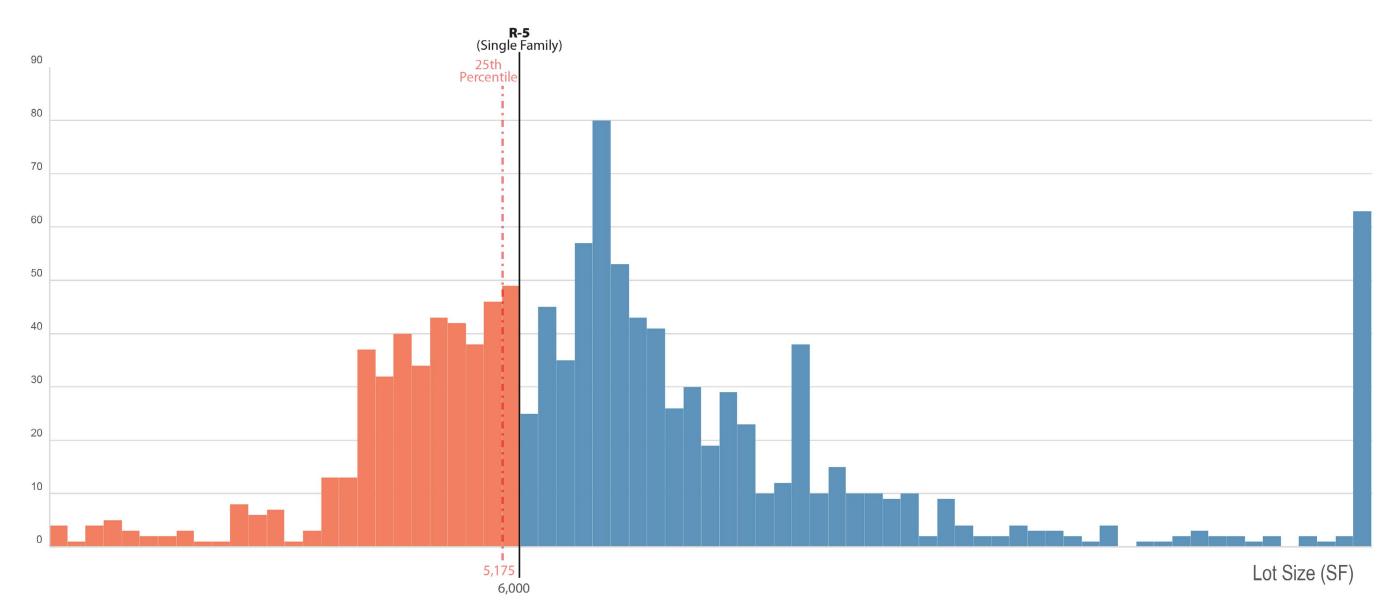
66 - 100

100+

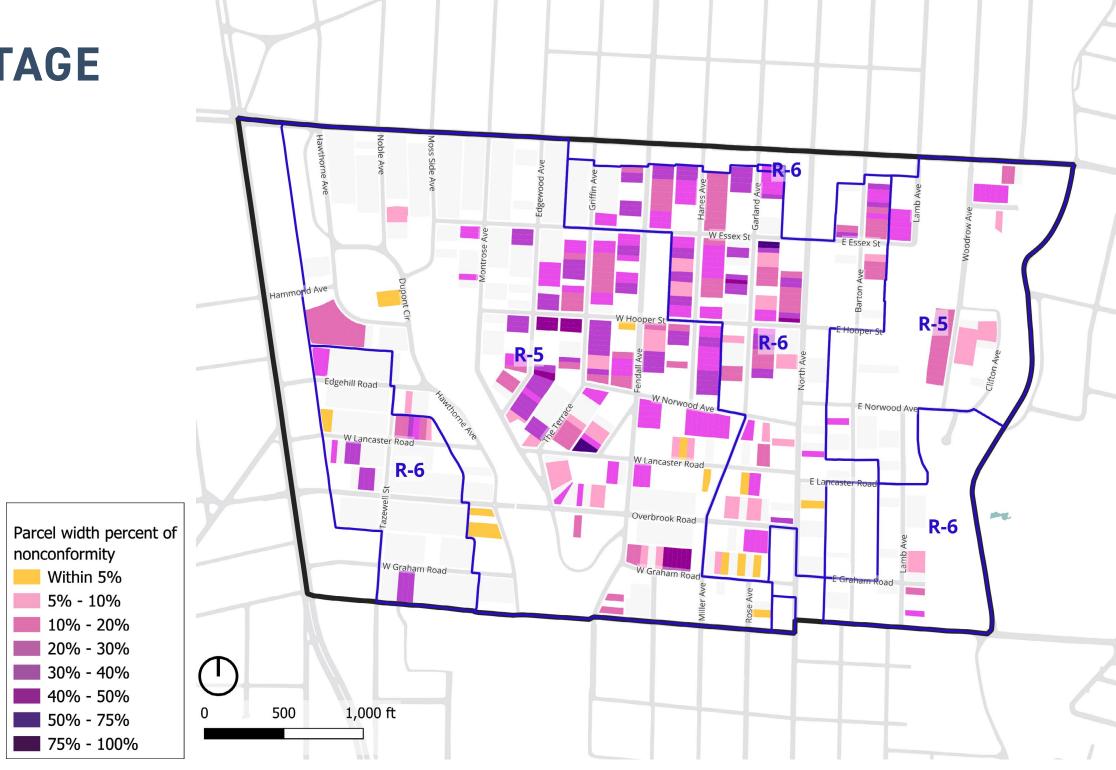
# PARCEL SIZE NONCONFORMITY



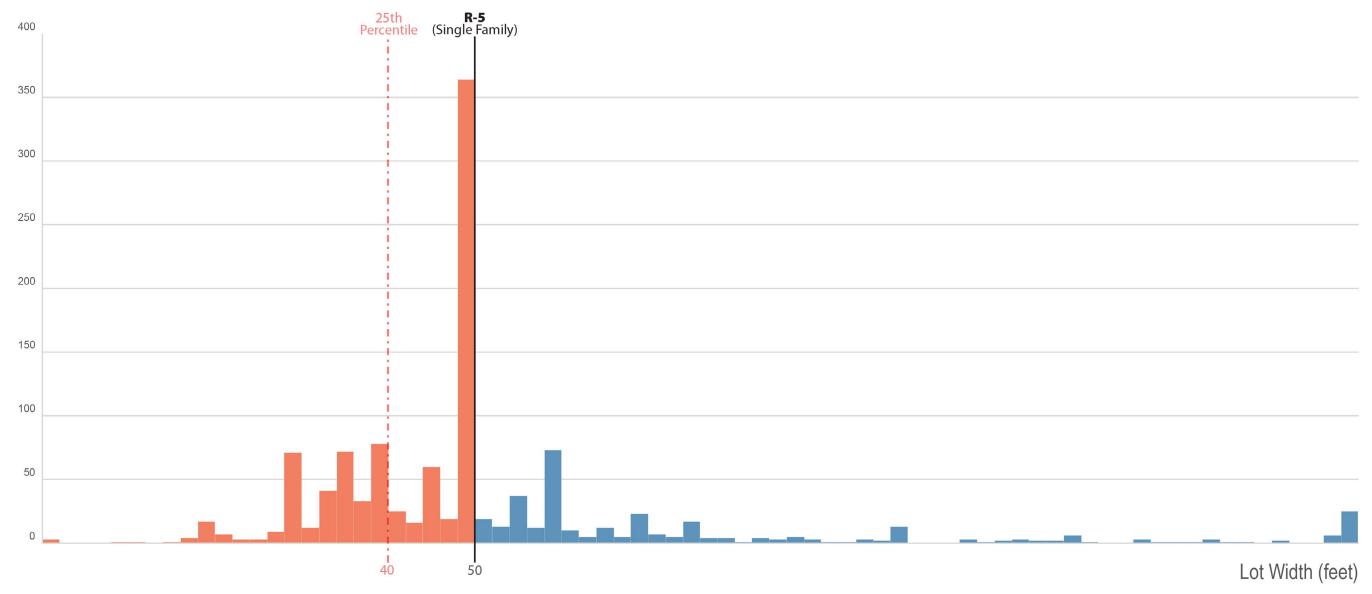
## PARCEL SIZE DISTRIBUTION



## PARCEL FRONTAGE



## PARCEL FRONTAGE DISTRIBUTION



## **NONCONFORMITIES**

45% of all parcels in

Northern Barton Heights are

nonconforming based on lot size, lot

coverage, building height, frontage,

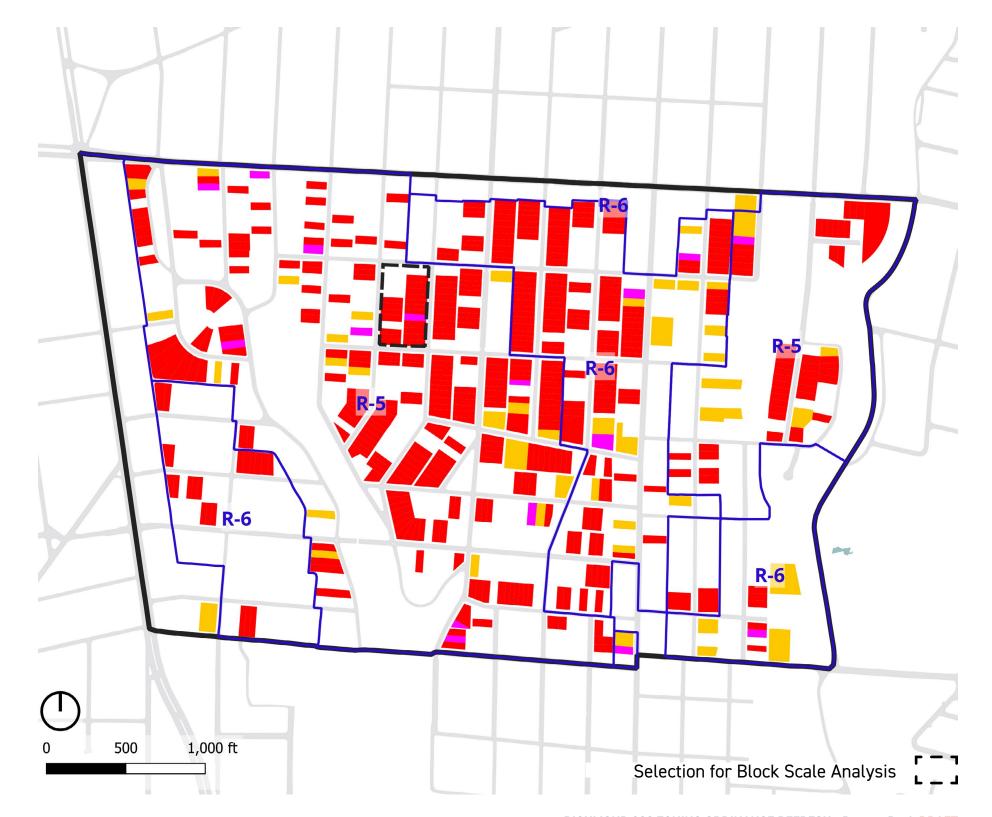
and/or use.

4% Due to Use

40% Due to Form

1% Due to Both

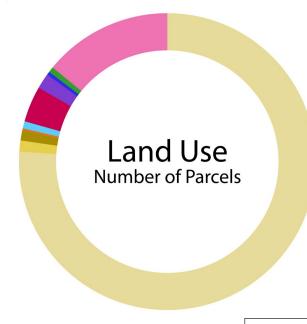
#### **Predominantly zoned R-5 and R-6**

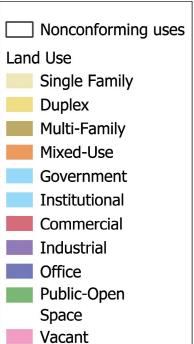


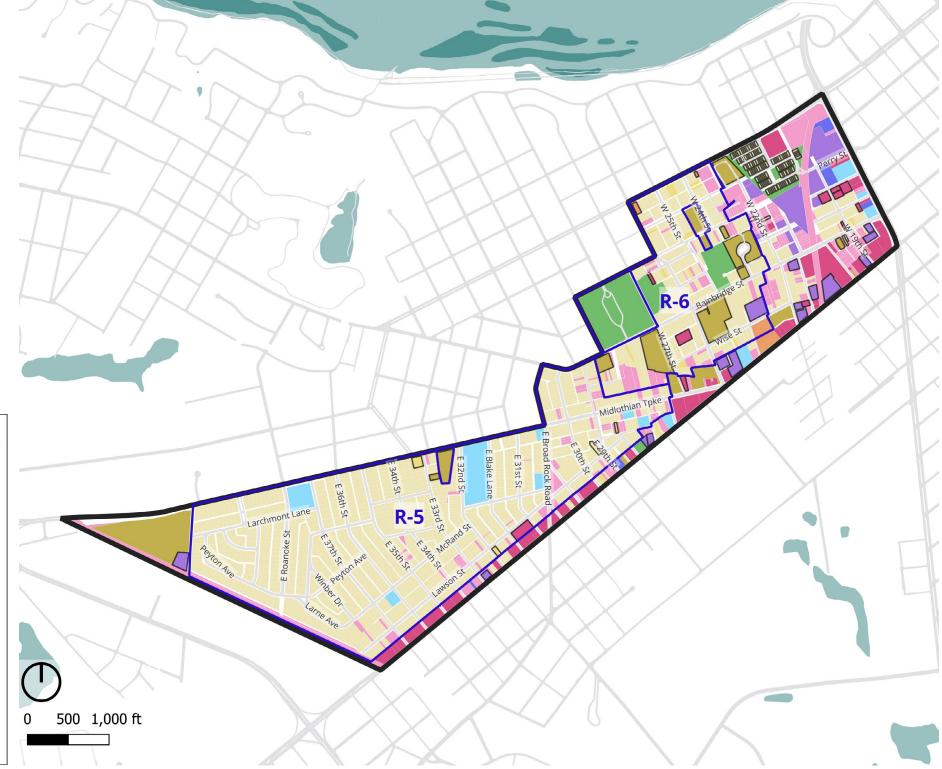
# 8. SWANSBORO / SWANSBORO WEST



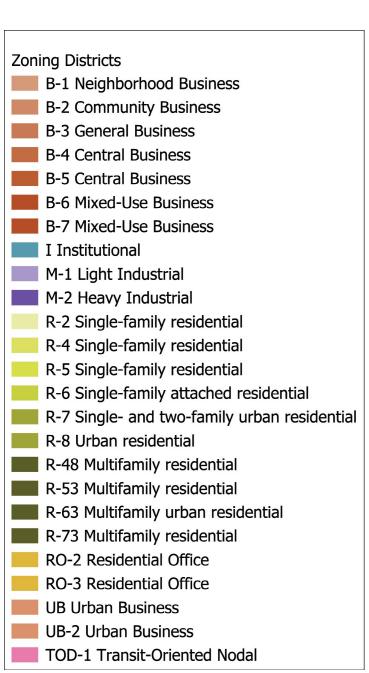
## LAND USE







### **CURRENT ZONING**





## **SPECIAL USE PERMITS**

Special Use Permits (SUPs) by location within the neighborhood.



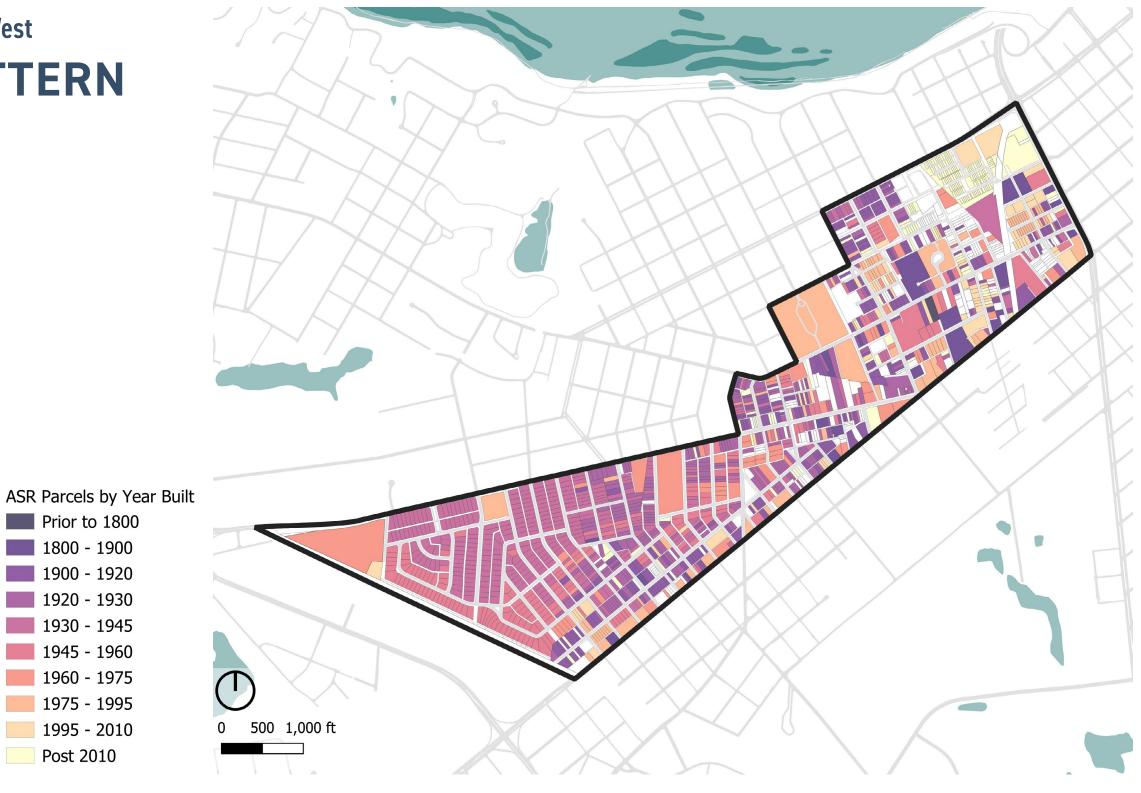
# RESIDENTIAL TYPOLOGY



## **HISTORIC PATTERN**

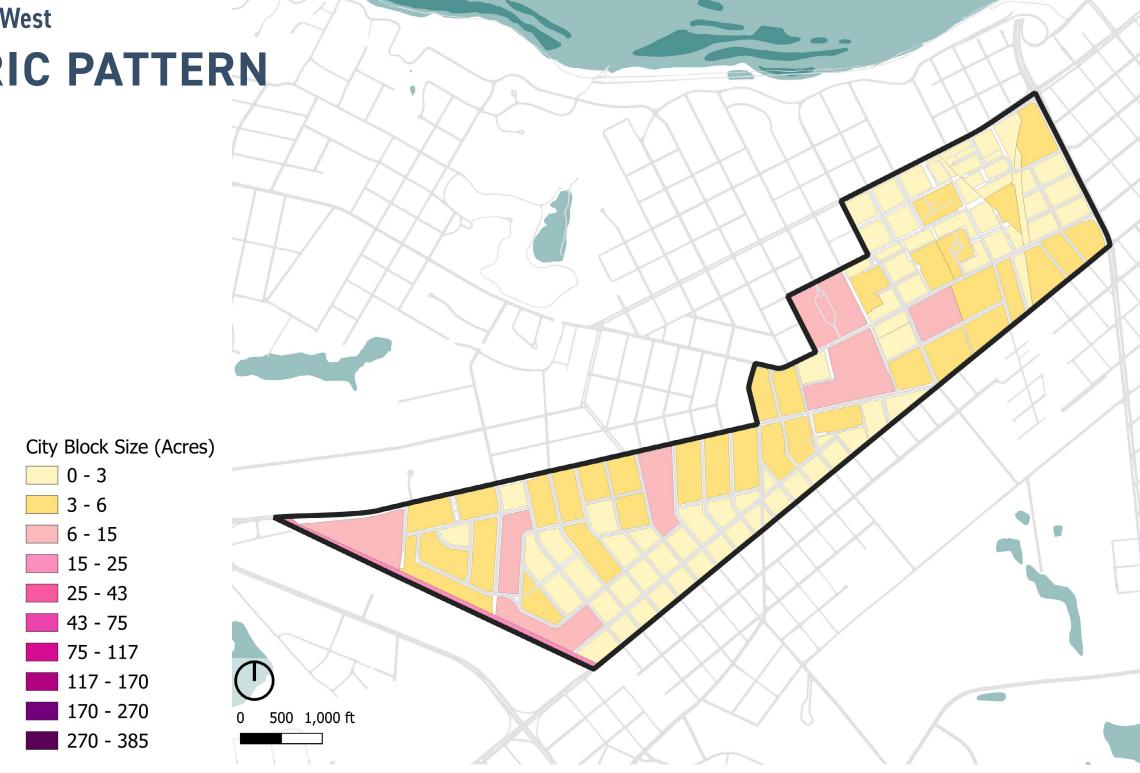
Post 2010

Parcels by Year built

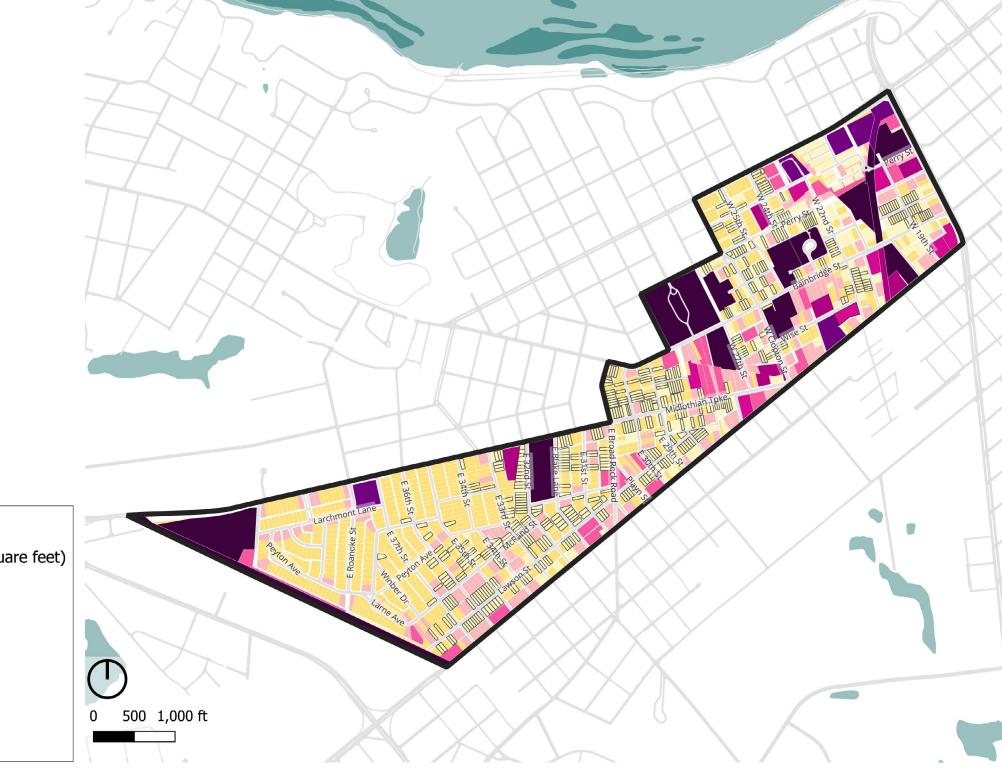


**URBAN FABRIC PATTERN** 

Blocks by size.



## **PARCEL SIZES**



Parcels by size
(thousands of square feet)

0 - 6

6 - 10

10 - 22

22 - 36

36 - 44

44 - 66

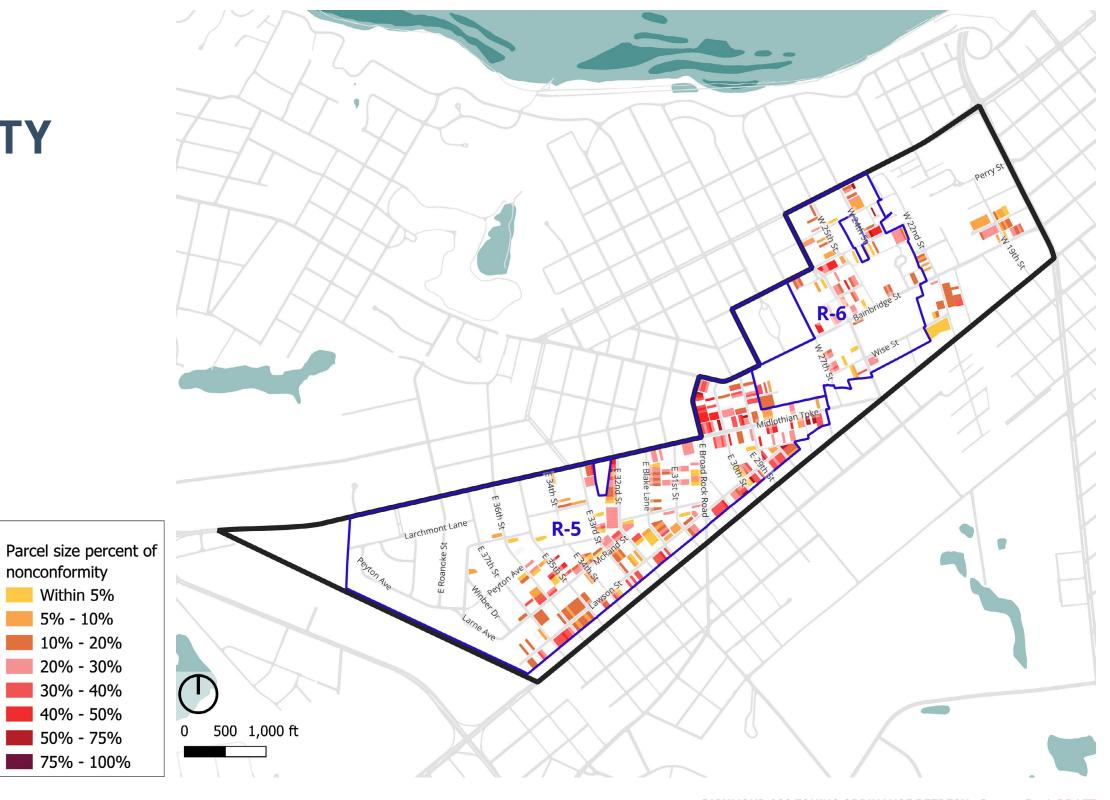
66 - 100

100+

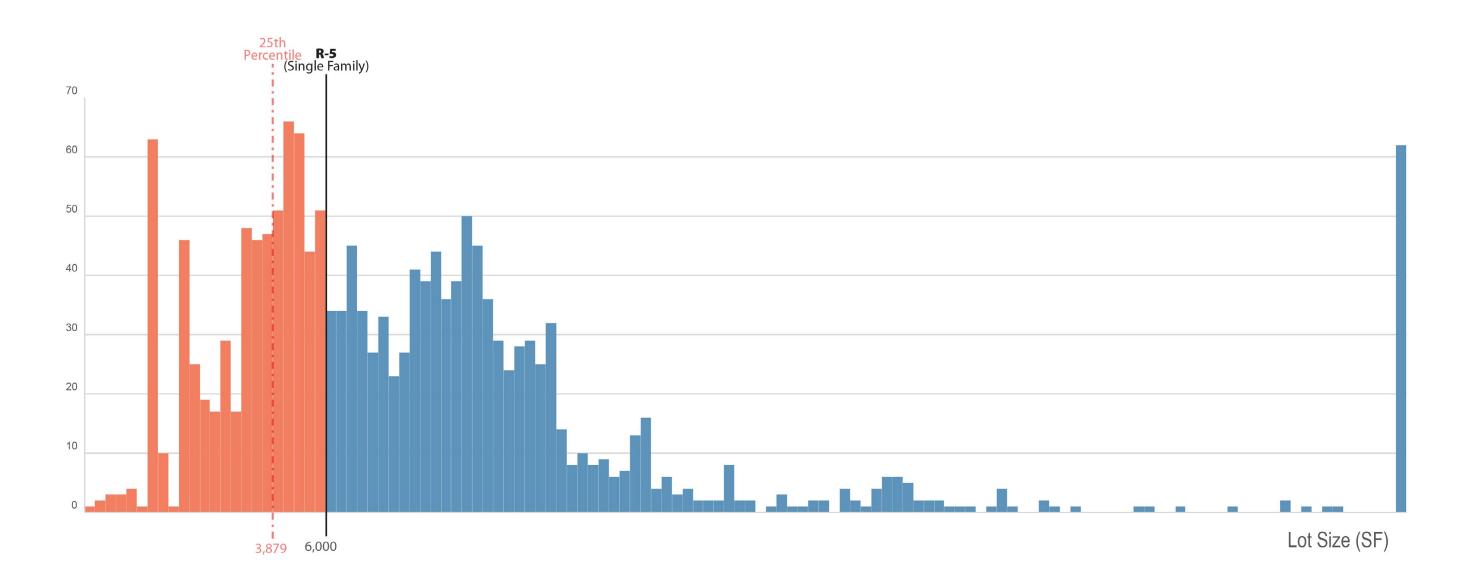
# **PARCEL SIZE NONCONFORMITY**

nonconformity

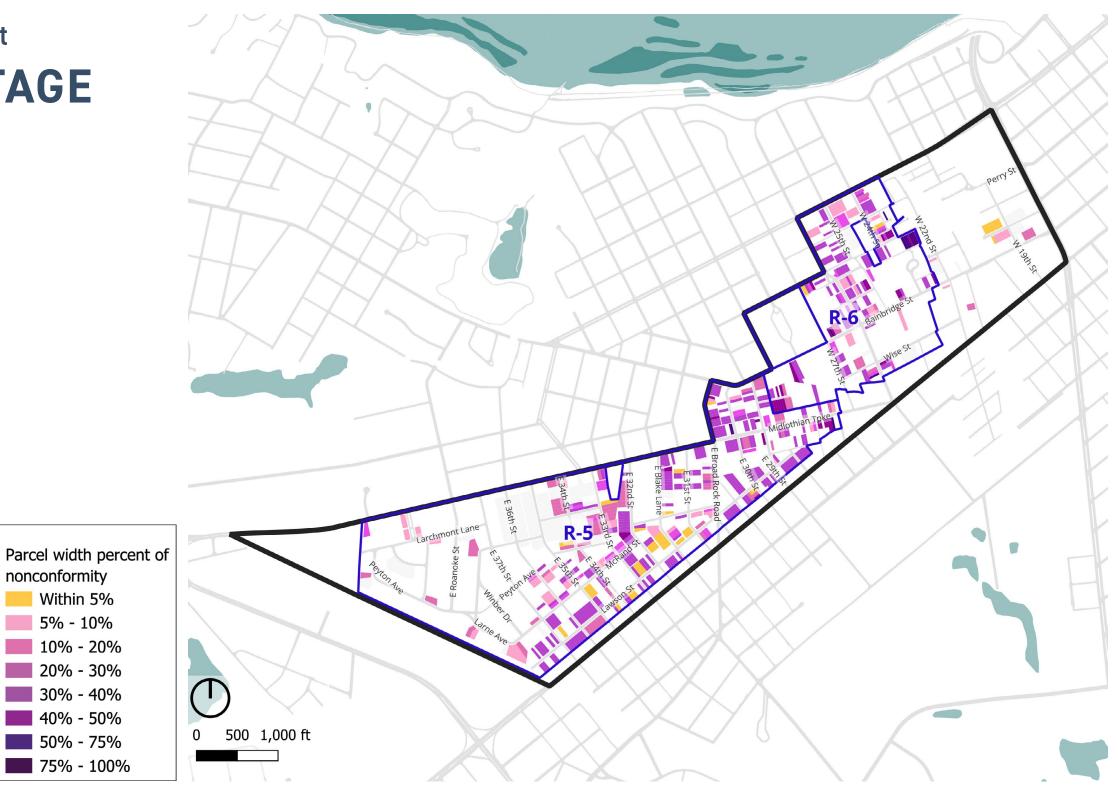
Within 5% 5% - 10%



## PARCEL SIZE DISTRIBUTION



## PARCEL FRONTAGE

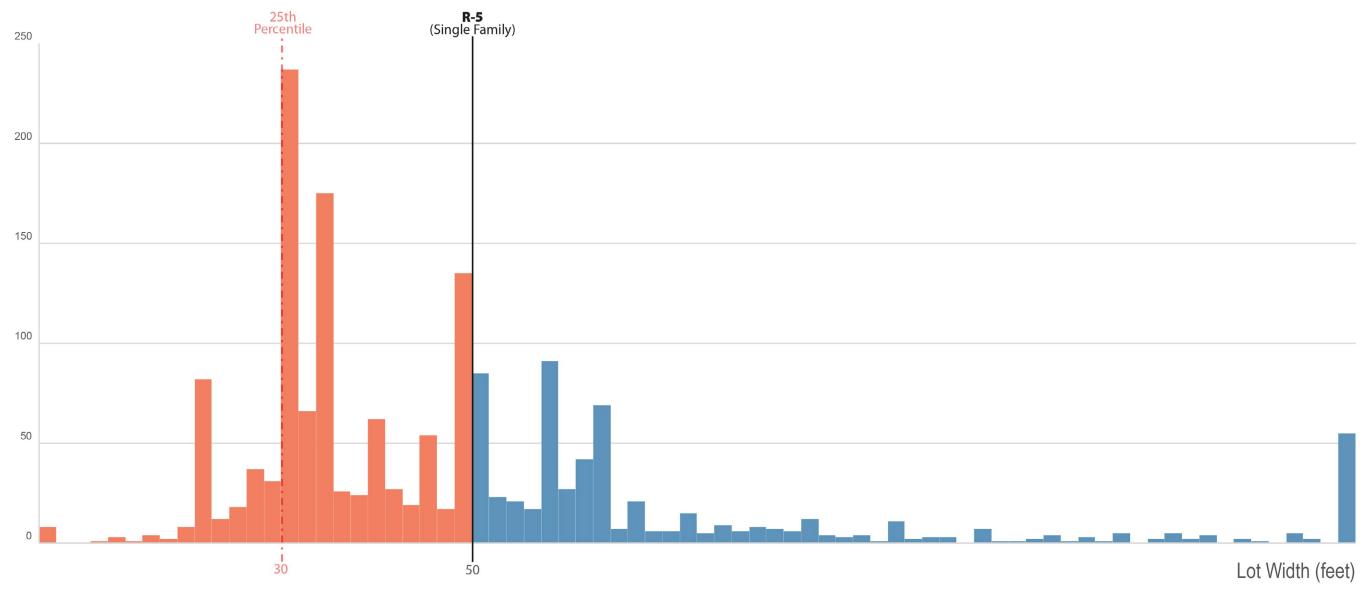


110

nonconformity

Within 5% 5% - 10% 10% - 20% 20% - 30% 30% - 40% 40% - 50%

# PARCEL FRONTAGE DISTRIBUTION



## **NONCONFORMITIES**

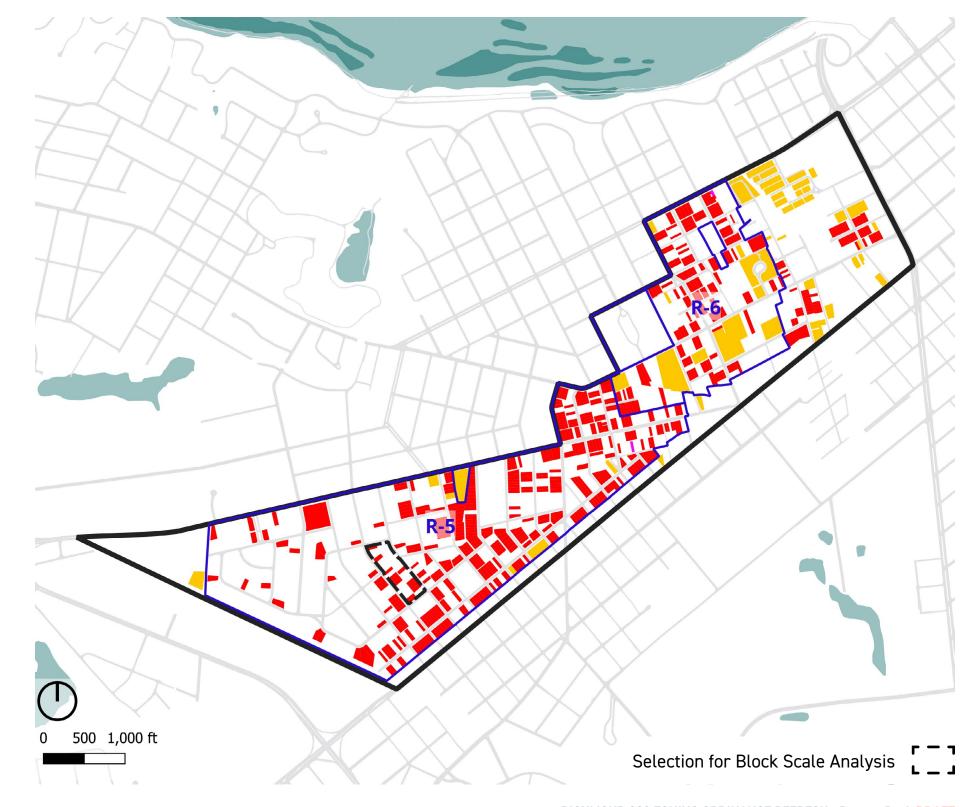
47% of all parcels in Swansboro / Swansboro West are nonconforming based on lot size, lot coverage, building height, frontage, and/or use.

9% Due to Use

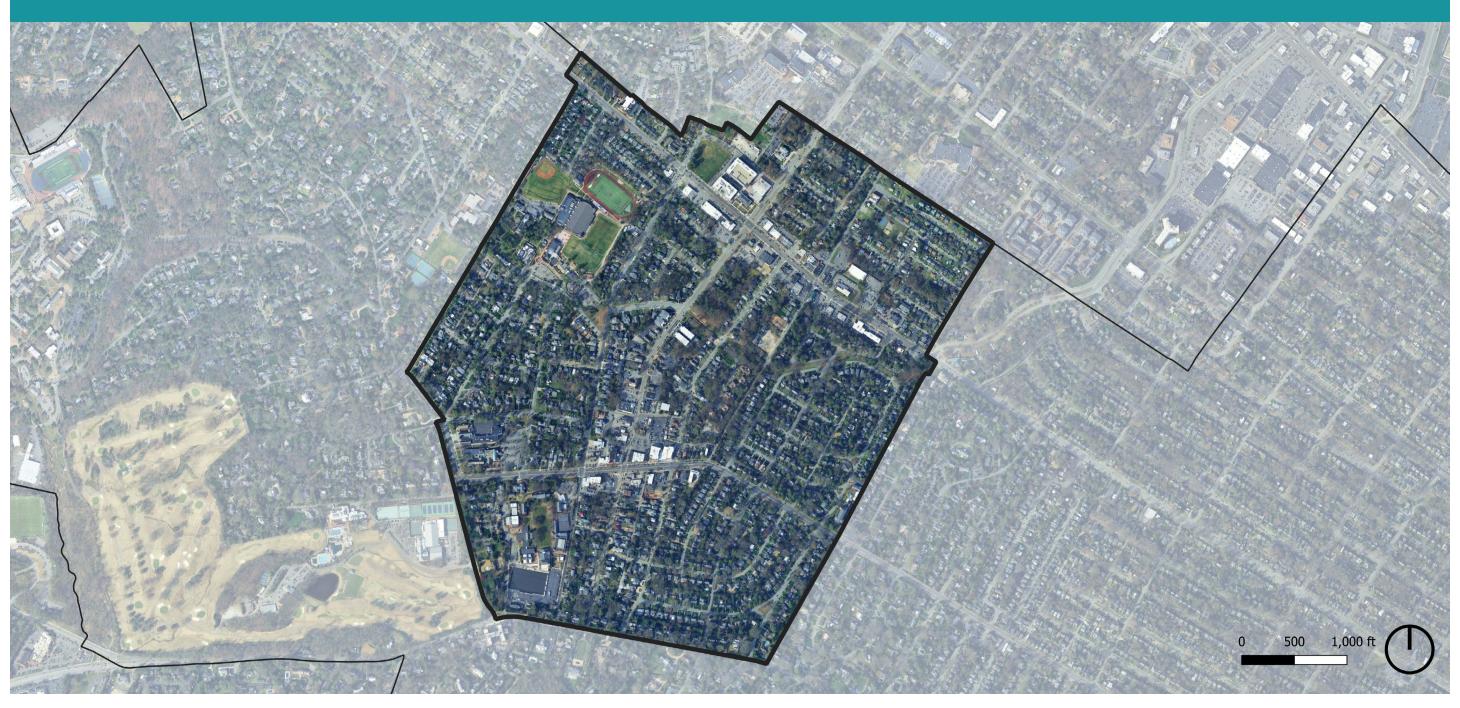
37% Due to Form

1% Due to Both

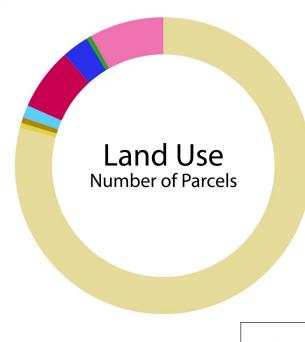
### **Predominantly zoned R-5 and R-6**

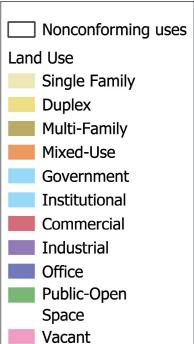


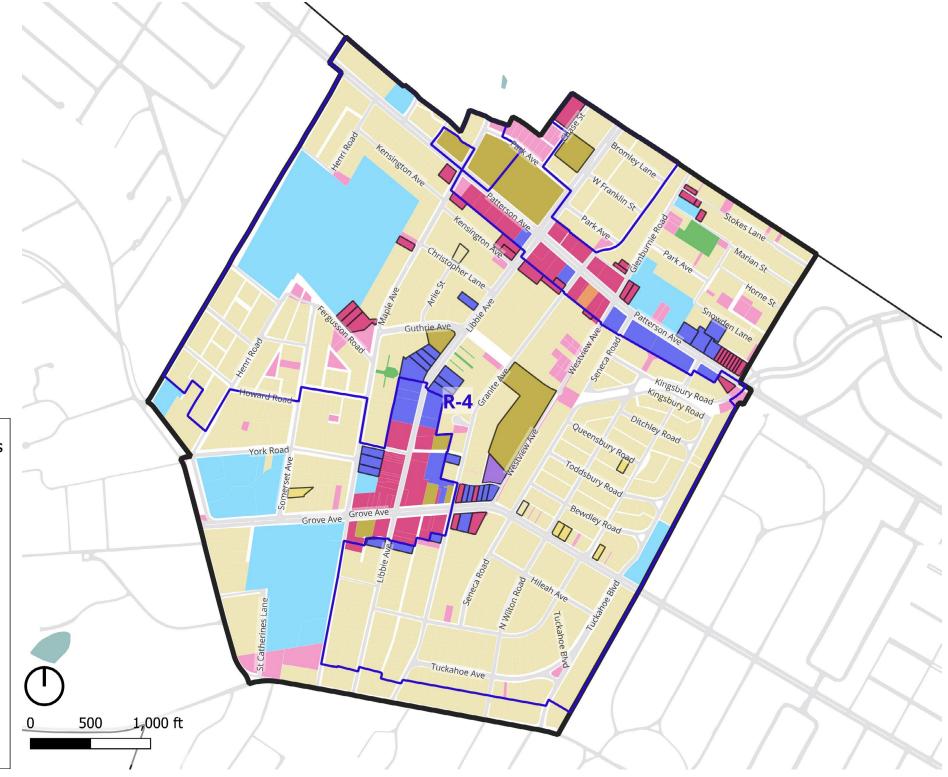
# 9. THREE CHOPT / WESTHAMPTON



# LAND USE

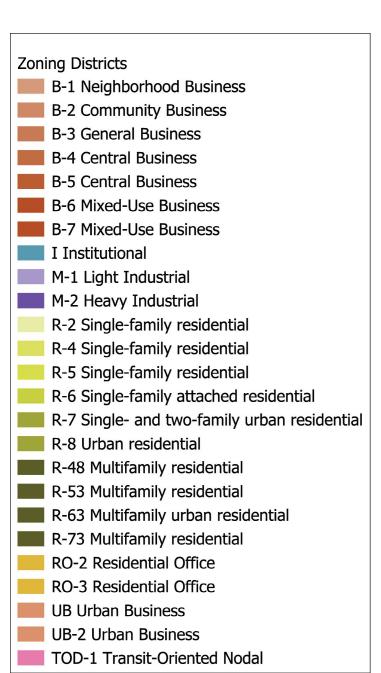


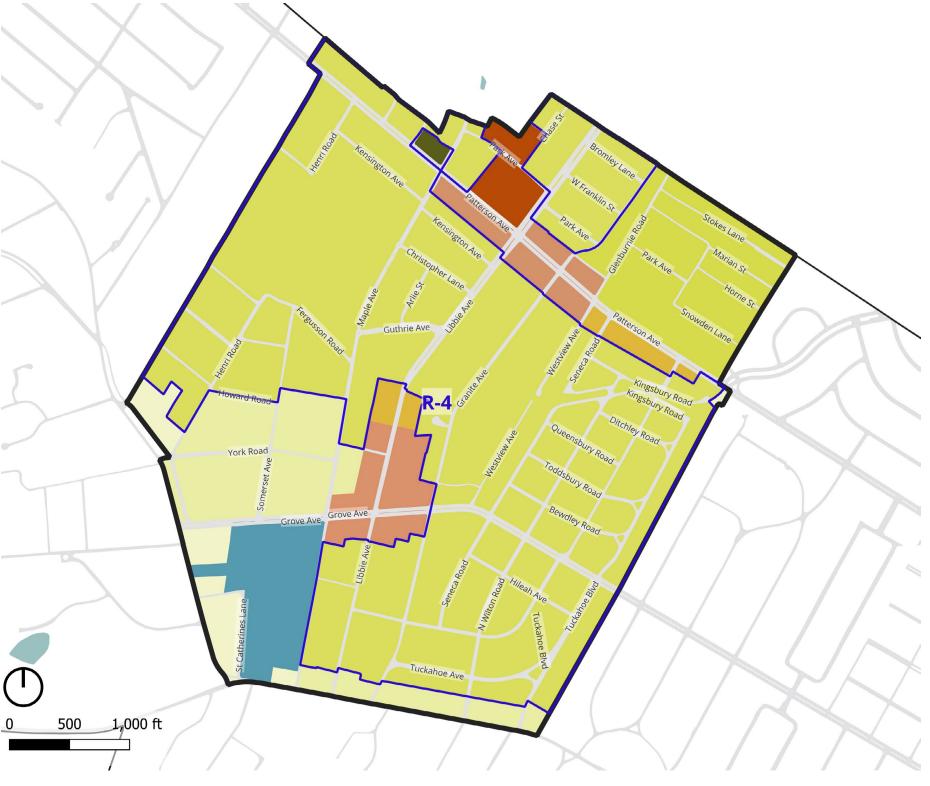




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## **CURRENT ZONING**





RICHMOND 300 ZONING ORDINANCE REFRESH - Pattern Book DRAFT

# **SPECIAL USE PERMITS**

Special Use Permits (SUPs) by location within the neighborhood.

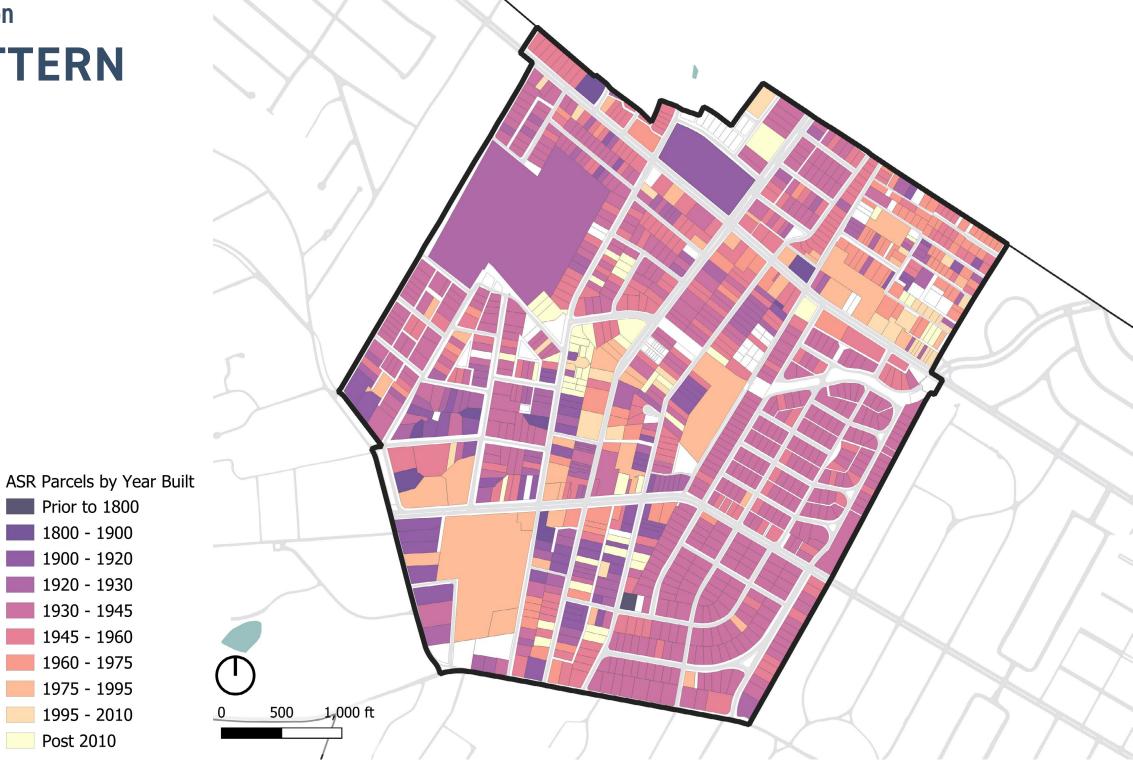


# RESIDENTIAL TYPOLOGY



## **HISTORIC PATTERN**

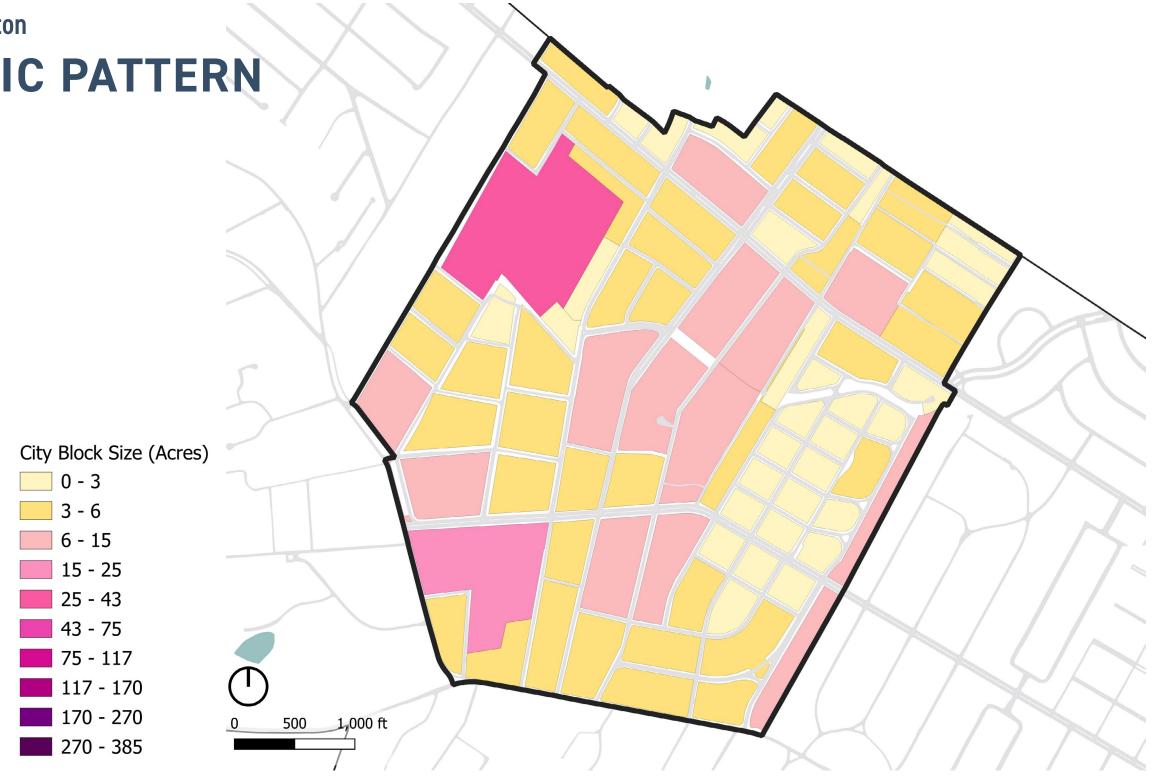
Parcels by Year built



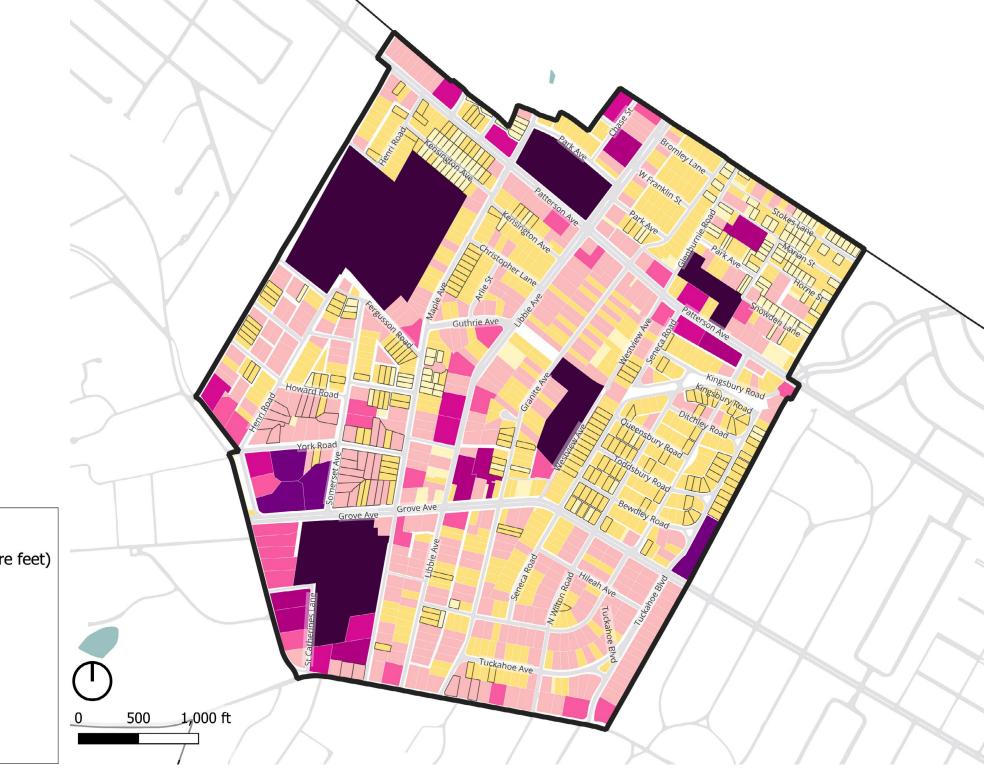


# **URBAN FABRIC PATTERN**

Blocks by size.



# **PARCEL SIZES**



Parcels by size
(thousands of square feet)

0 - 6

6 - 10

10 - 22

22 - 36

36 - 44

44 - 66

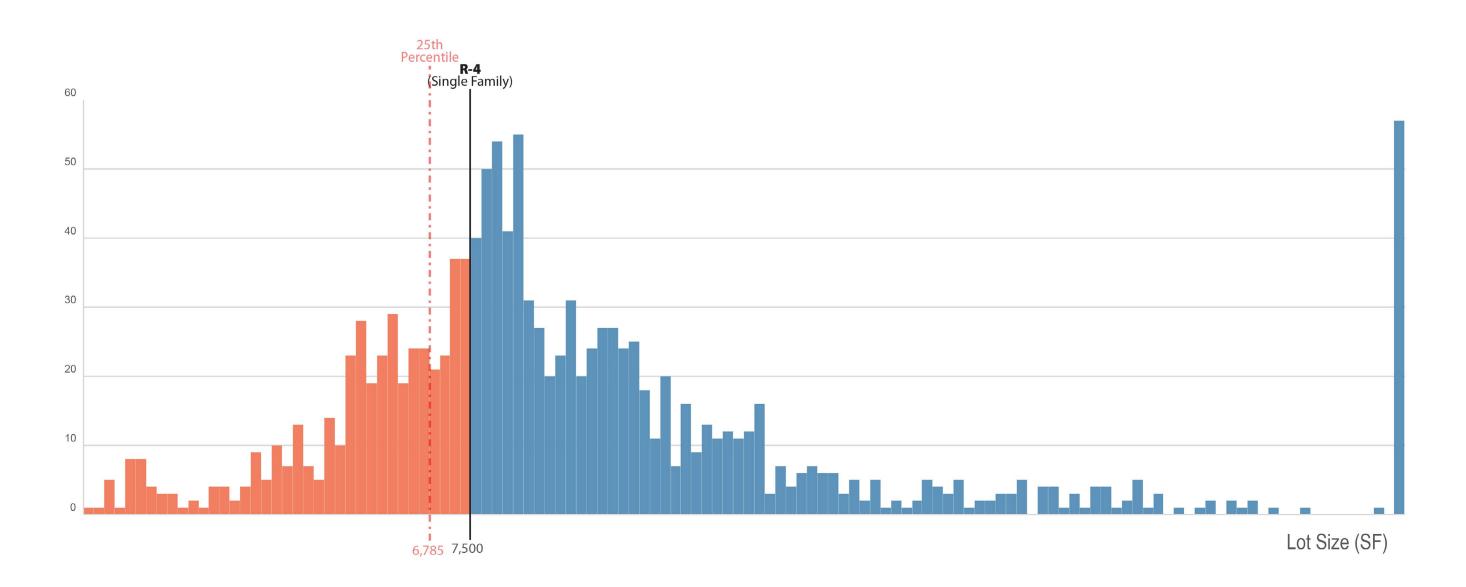
66 - 100

100+

# PARCEL SIZE NONCONFORMITY



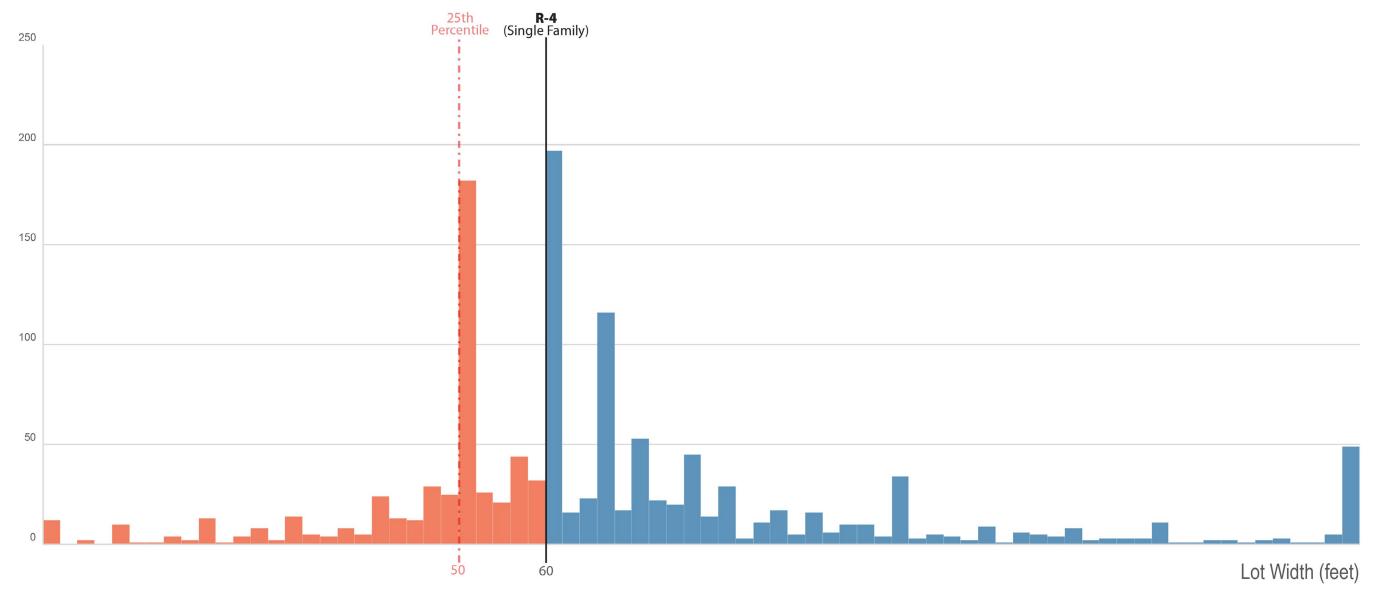
## PARCEL SIZE DISTRIBUTION



# PARCEL FRONTAGE



## PARCEL FRONTAGE DISTRIBUTION



## **NONCONFORMITIES**

**48%** of all parcels in Three Chopt / Westhampton are

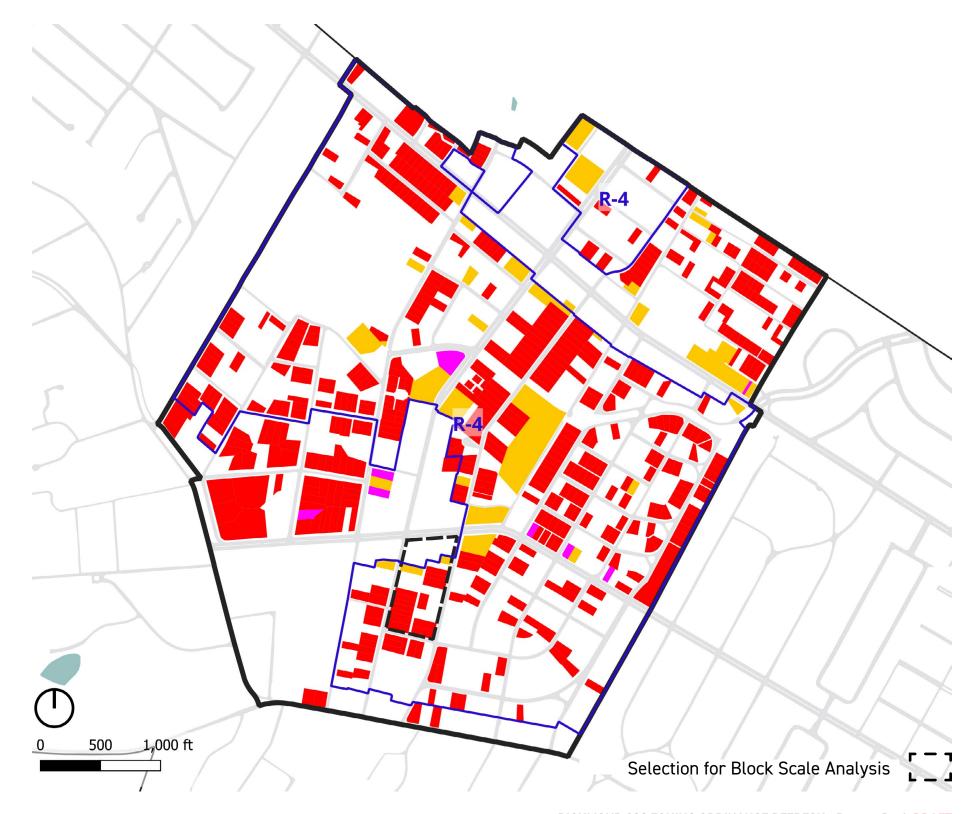
nonconforming based on lot size, lot coverage, building height, frontage, and/or use.

4% Due to Use

43% Due to Form

1% Due to Both

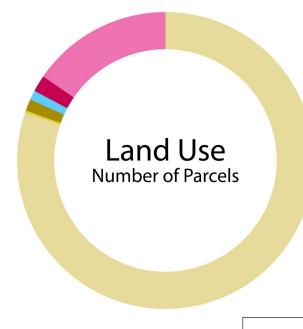
#### **Predominantly zoned R-4**



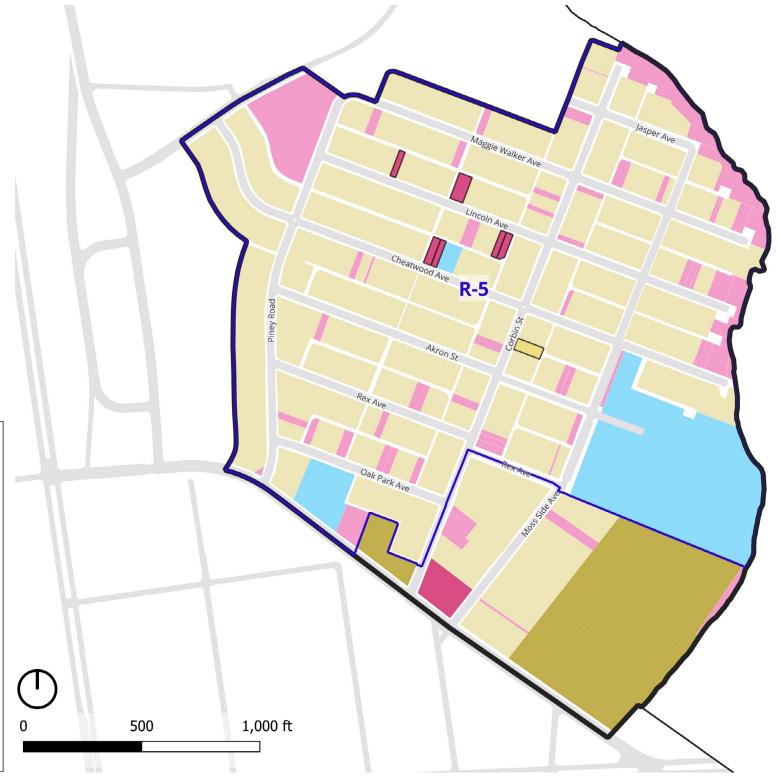
# 10. WASHINGTON PARK



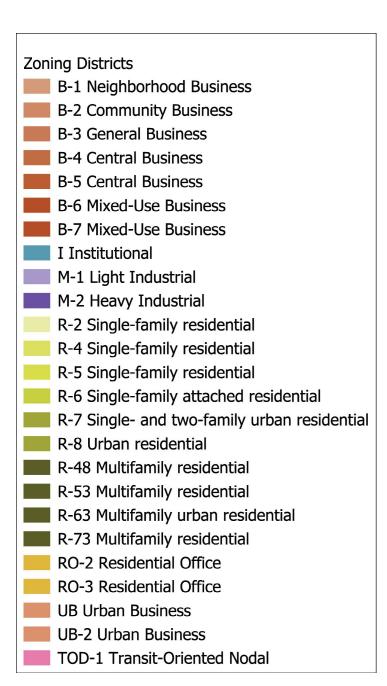
# LAND USE







## **CURRENT ZONING**





# **SPECIAL USE PERMITS**

Special Use Permits (SUPs) by location within the neighborhood.



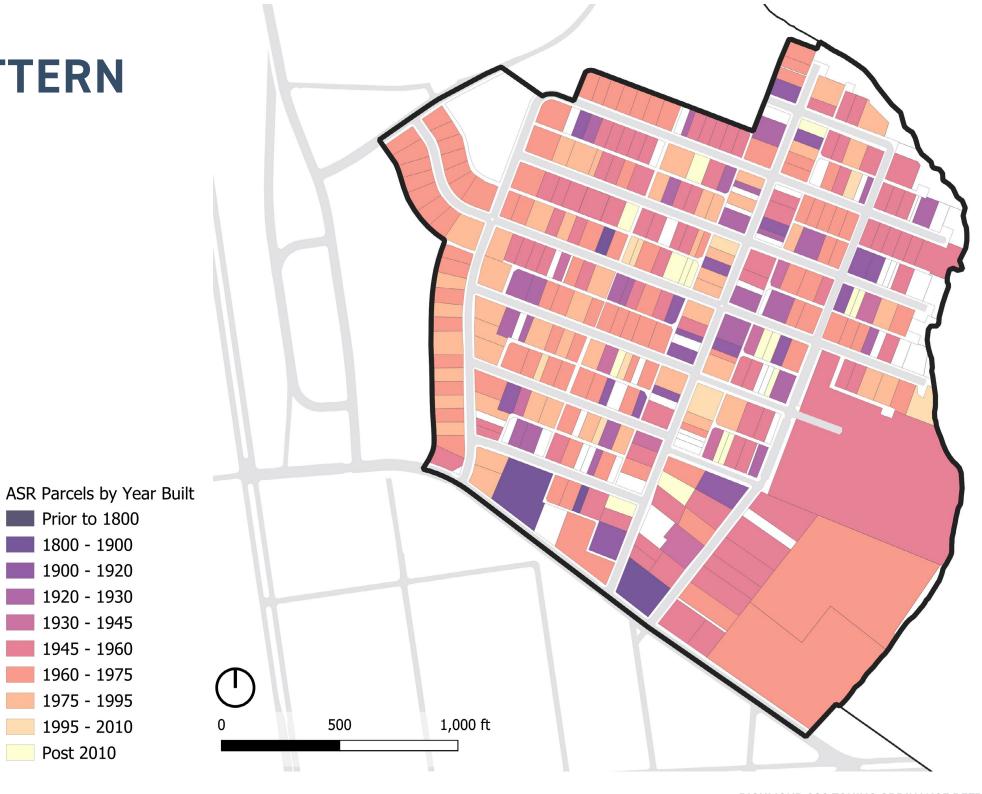
# RESIDENTIAL TYPOLOGY



# **HISTORIC PATTERN**

Post 2010

Parcels by Year built



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# **URBAN FABRIC PATTERN**

0 - 3

3 - 6

6 - 15

15 - 25

25 - 43

43 - 75

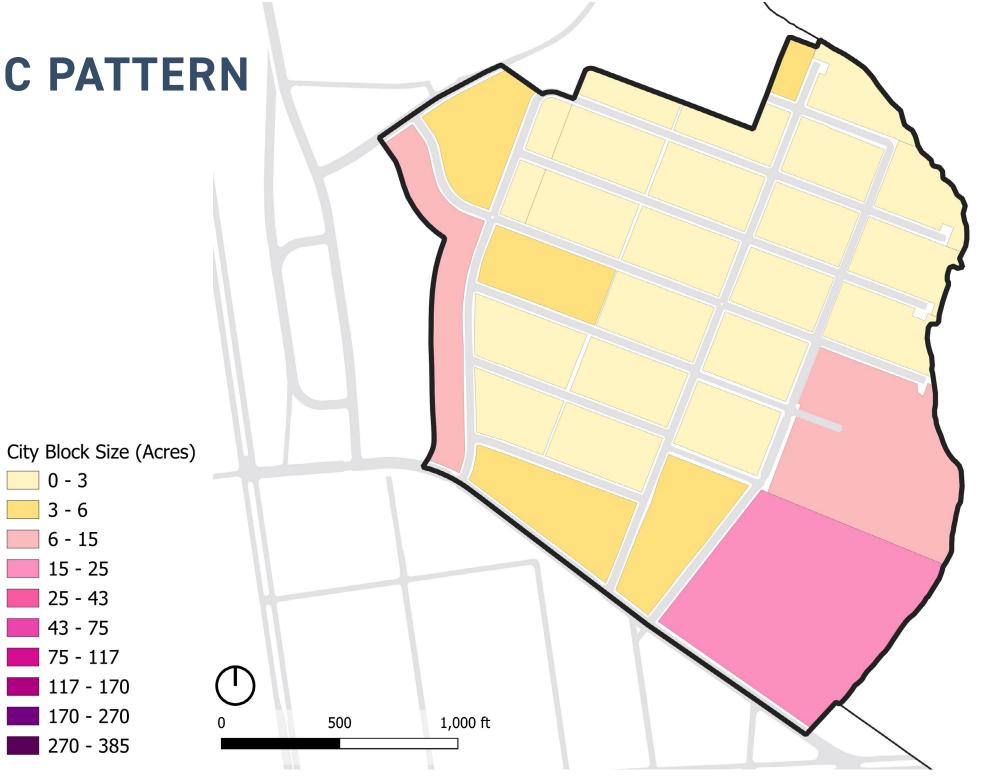
75 - 117

117 - 170

170 - 270

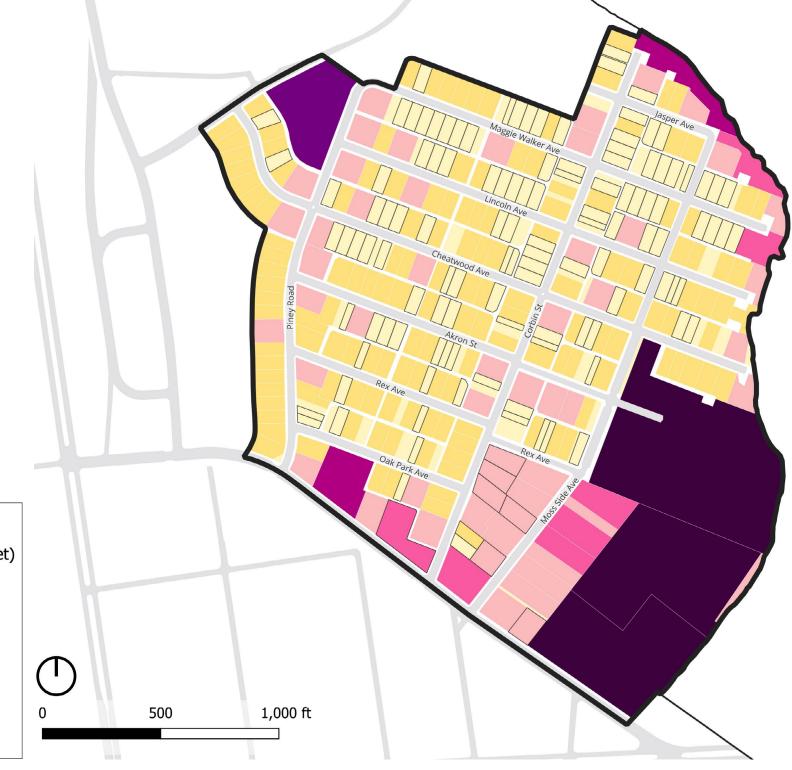
270 - 385

Blocks by size.



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# **PARCEL SIZES**



Parcels by size
(thousands of square feet)

0 - 6

6 - 10

10 - 22

22 - 36

36 - 44

44 - 66

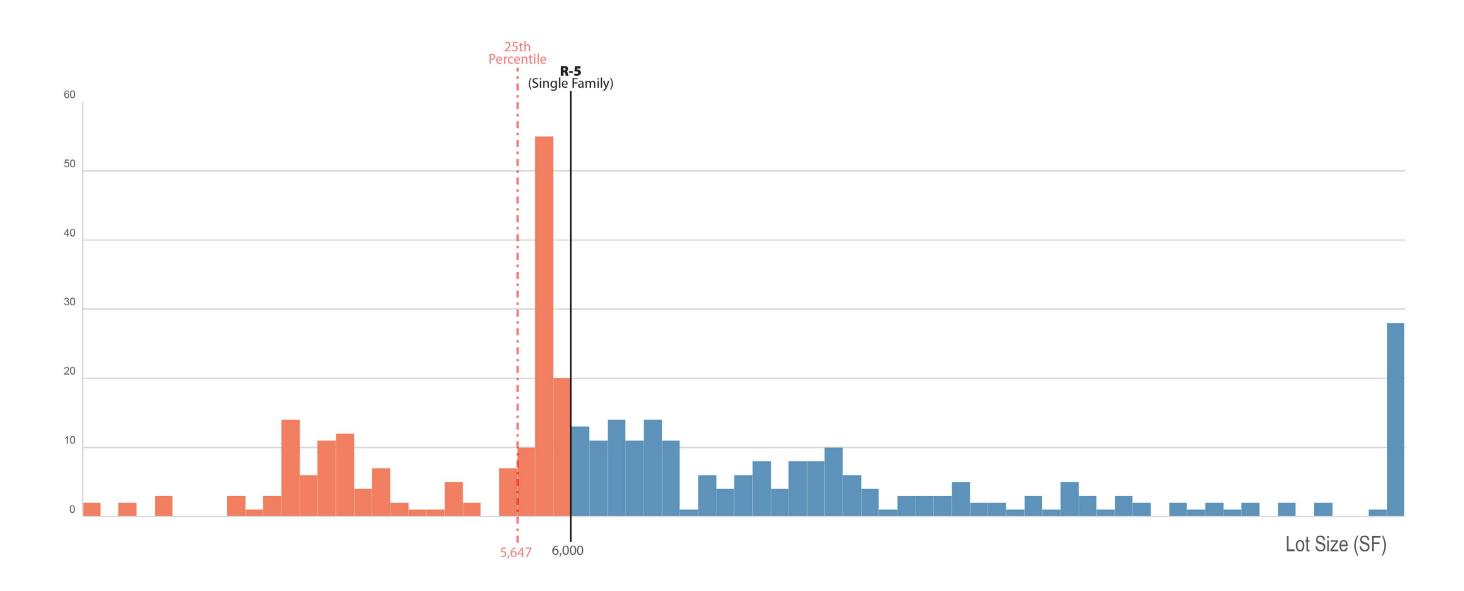
66 - 100

100+

# PARCEL SIZE NONCONFORMITY



## PARCEL SIZE DISTRIBUTION



# PARCEL FRONTAGE



Parcel width percent of nonconformity

Within 5%

5% - 10%

10% - 20%

20% - 30%

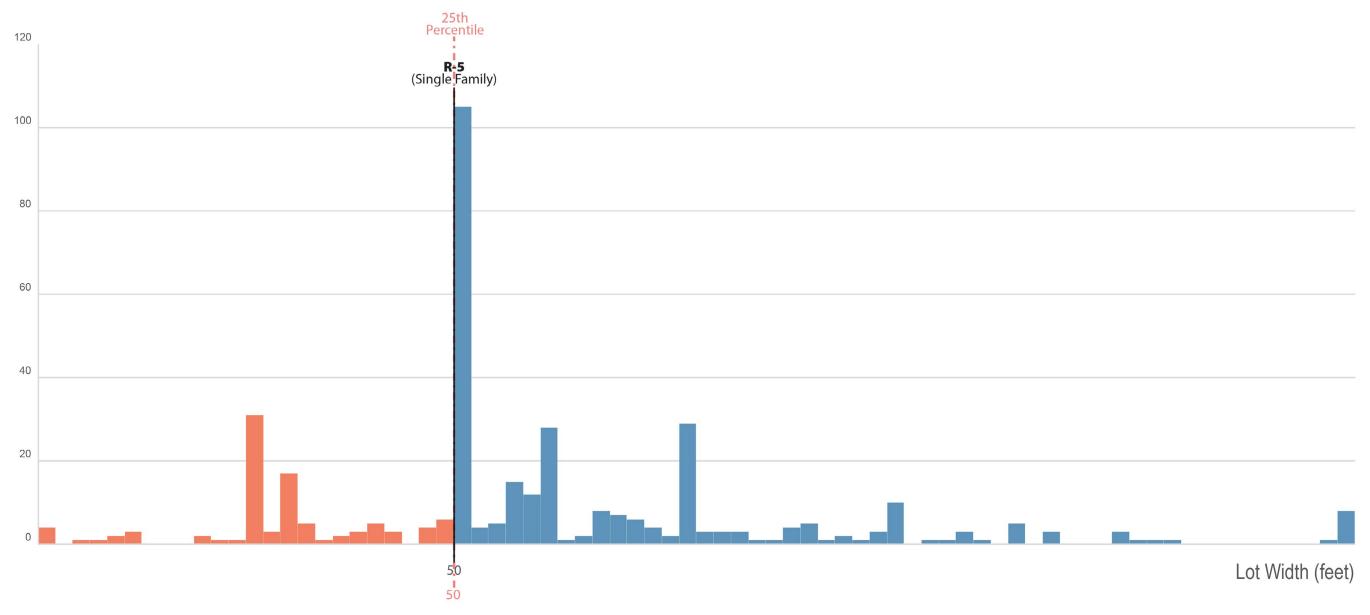
30% - 40%

40% - 50%

50% - 75%

75% - 100%

# PARCEL FRONTAGE DISTRIBUTION



## **NONCONFORMITIES**

37% of all parcels in
Washington Park are nonconforming
based on lot size, lot coverage,
building height, frontage, and/or use.

1% Due to Use

35% Due to Form

1% Due to Both

## **Predominantly zoned R-5**

