



City of
San Leandro

STREETLIGHTS

January 8, 2026
Facilities and Transportation Committee



AGENDA

1

Basics

2

Existing
Conditions

3

Improvements

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GOALS

VOCABULARY

Establish shared
vocabulary on lighting
infrastructure and system

COMPLEXITY

Explain why the system
and requests are complex

COSTS

Distinguish costs to own
and operate the system
and to make improvements



BASICS

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DEFINITION

A city streetlight is an outdoor light installed along the public street to improve nighttime visibility.

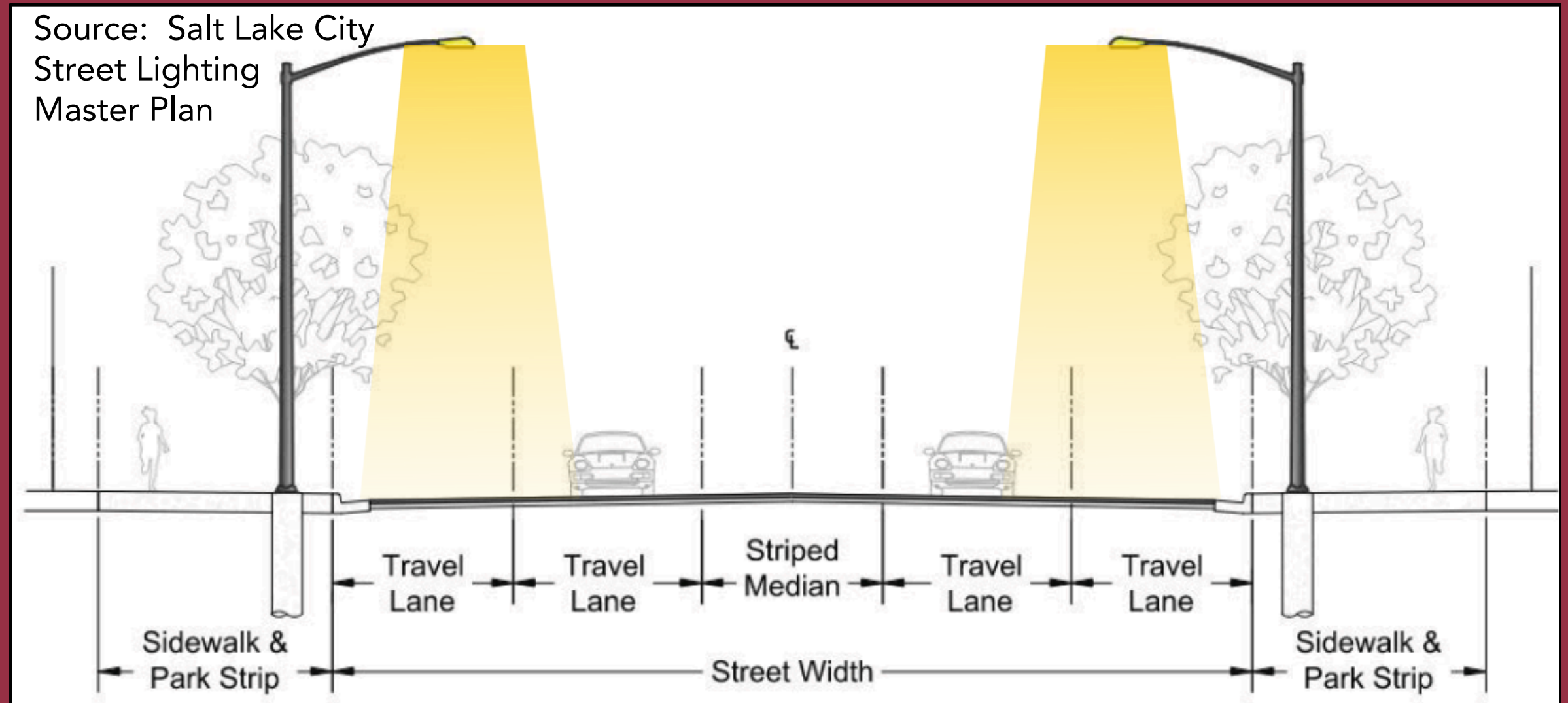


Streetlighting Only

- Focused on illuminating vehicle travel lanes
- Not effective in sidewalk lighting



Source: Salt Lake City
Street Lighting
Master Plan



Hesperian Boulevard



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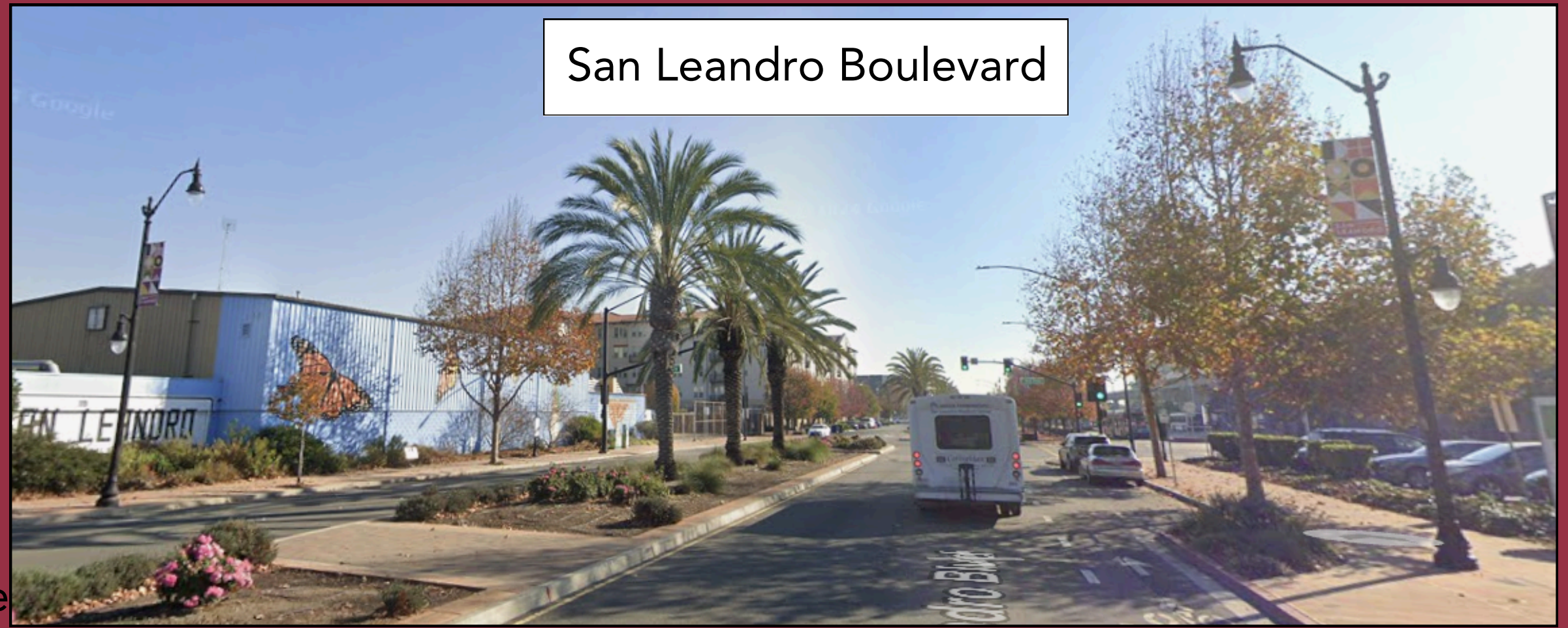
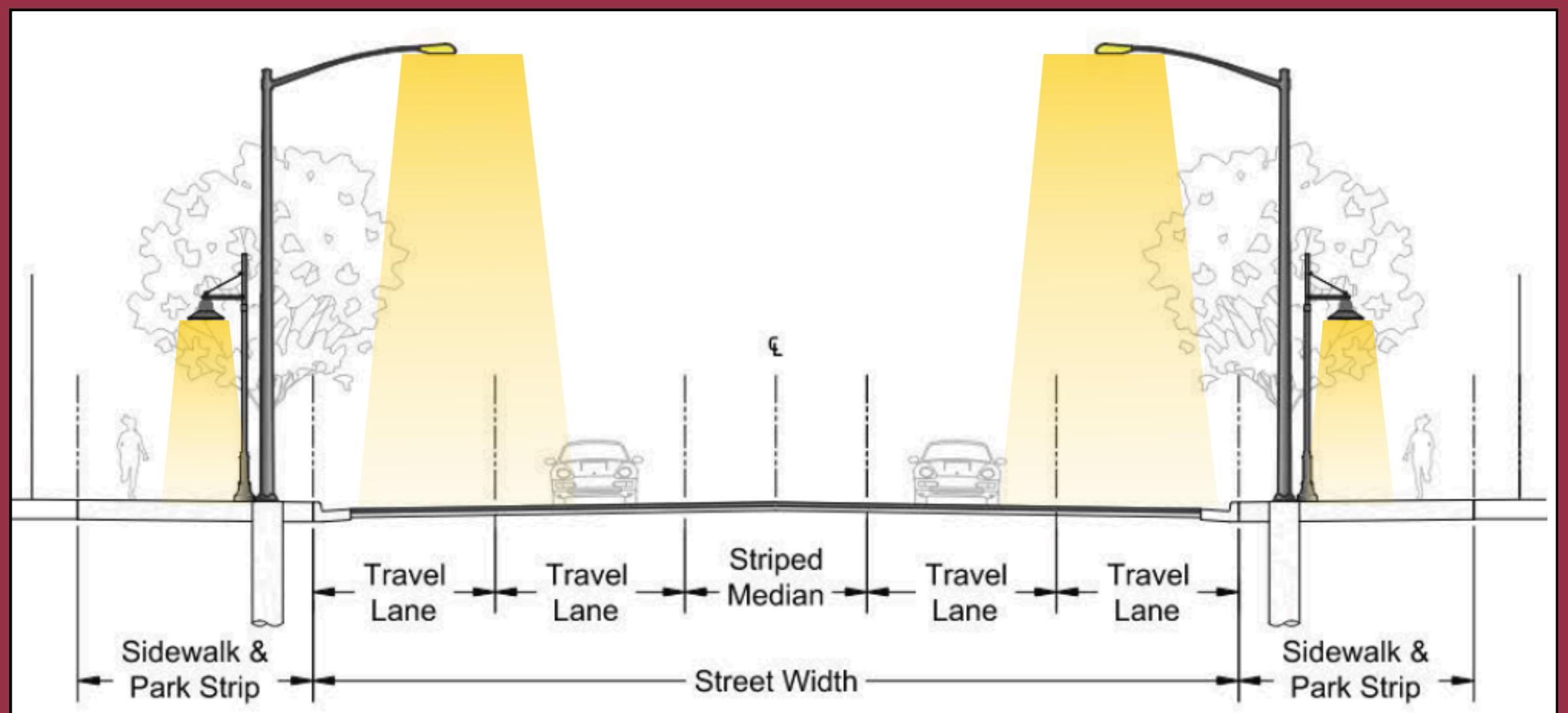
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Street & Pedestrian Lighting

Typically used in:

- areas of high pedestrian activity
- streets with trees that create shadowing
- streets with wide park strips

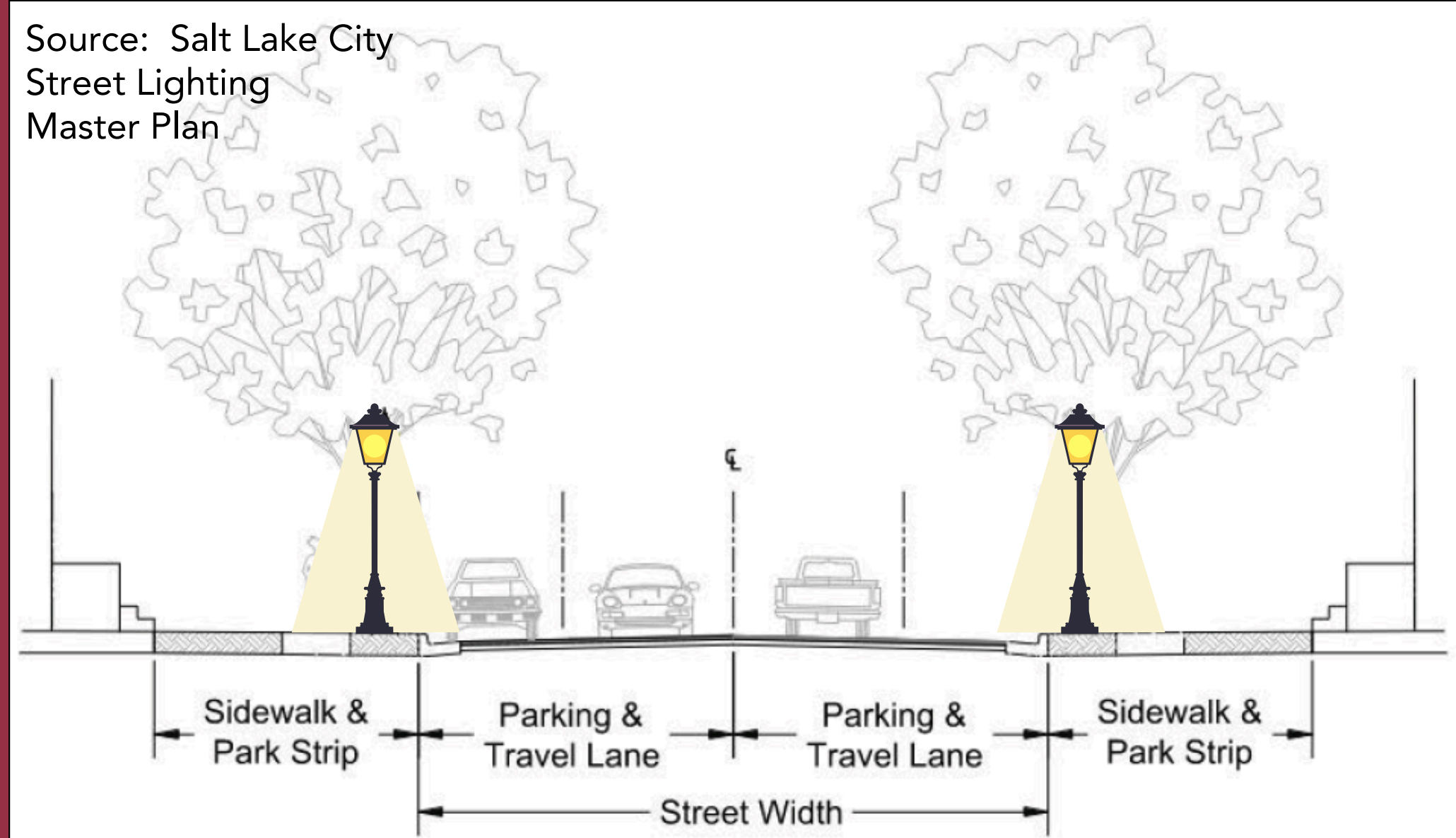
More visually comfortable pedestrian environment



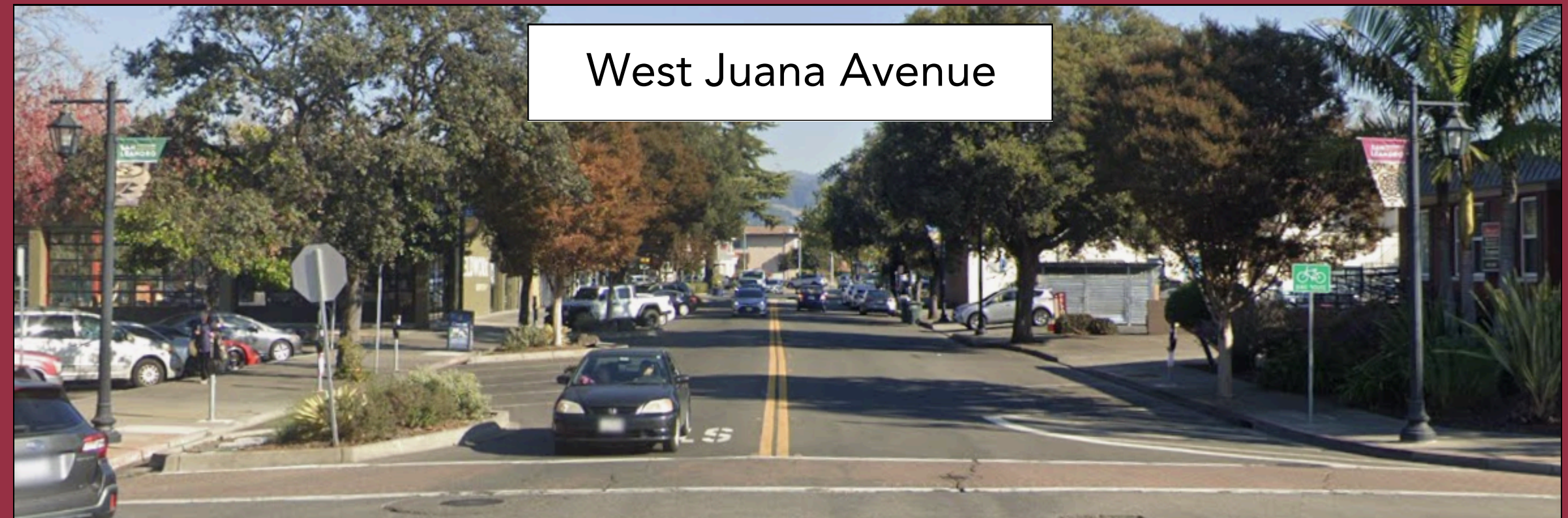
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Pedestrian Lighting Only



- Differentiates area as pedestrian centric
- Reduces light trespass into homes
- Character of lights can differentiate neighborhoods

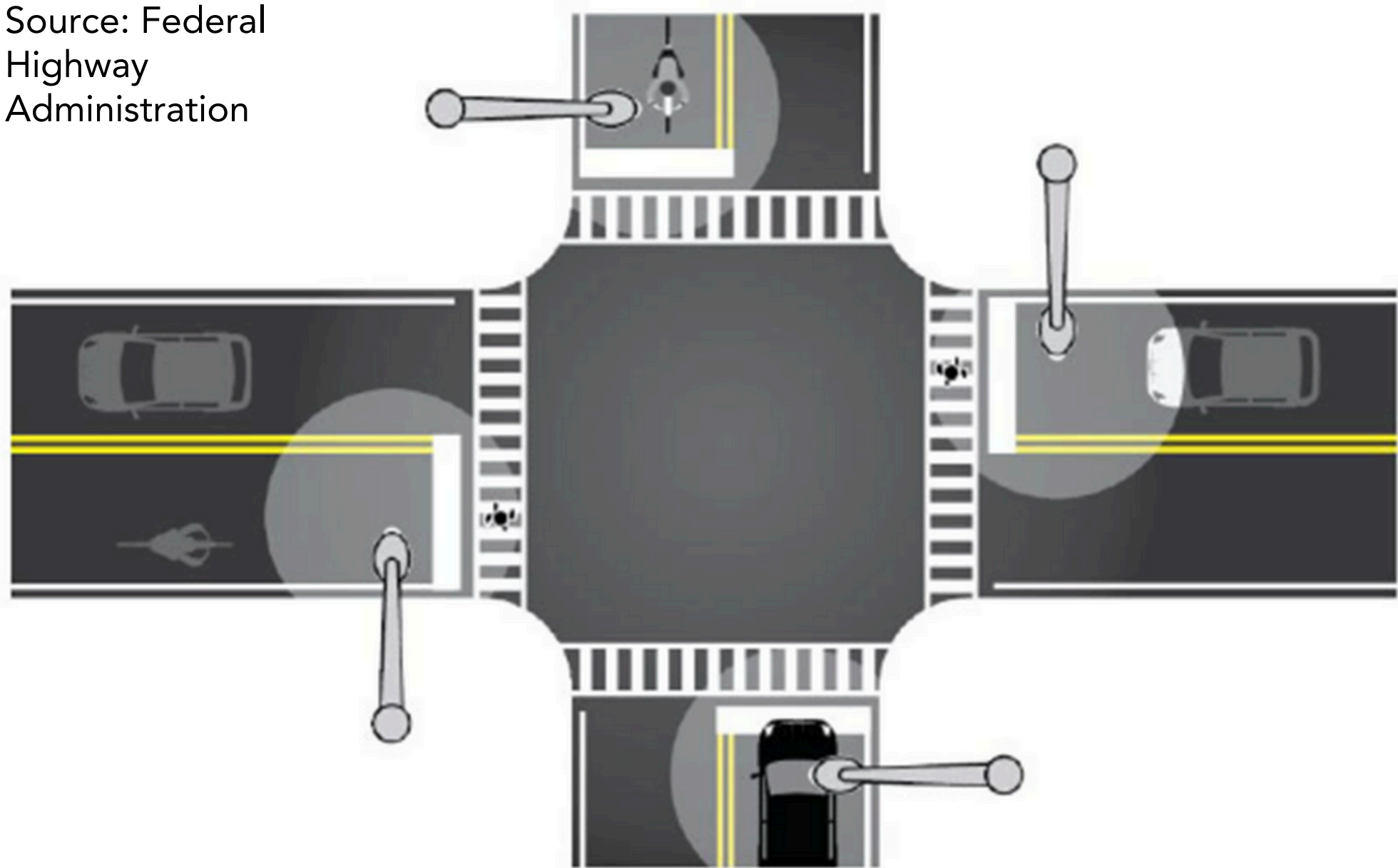


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Intersection/Safety Lighting

Source: Federal Highway Administration



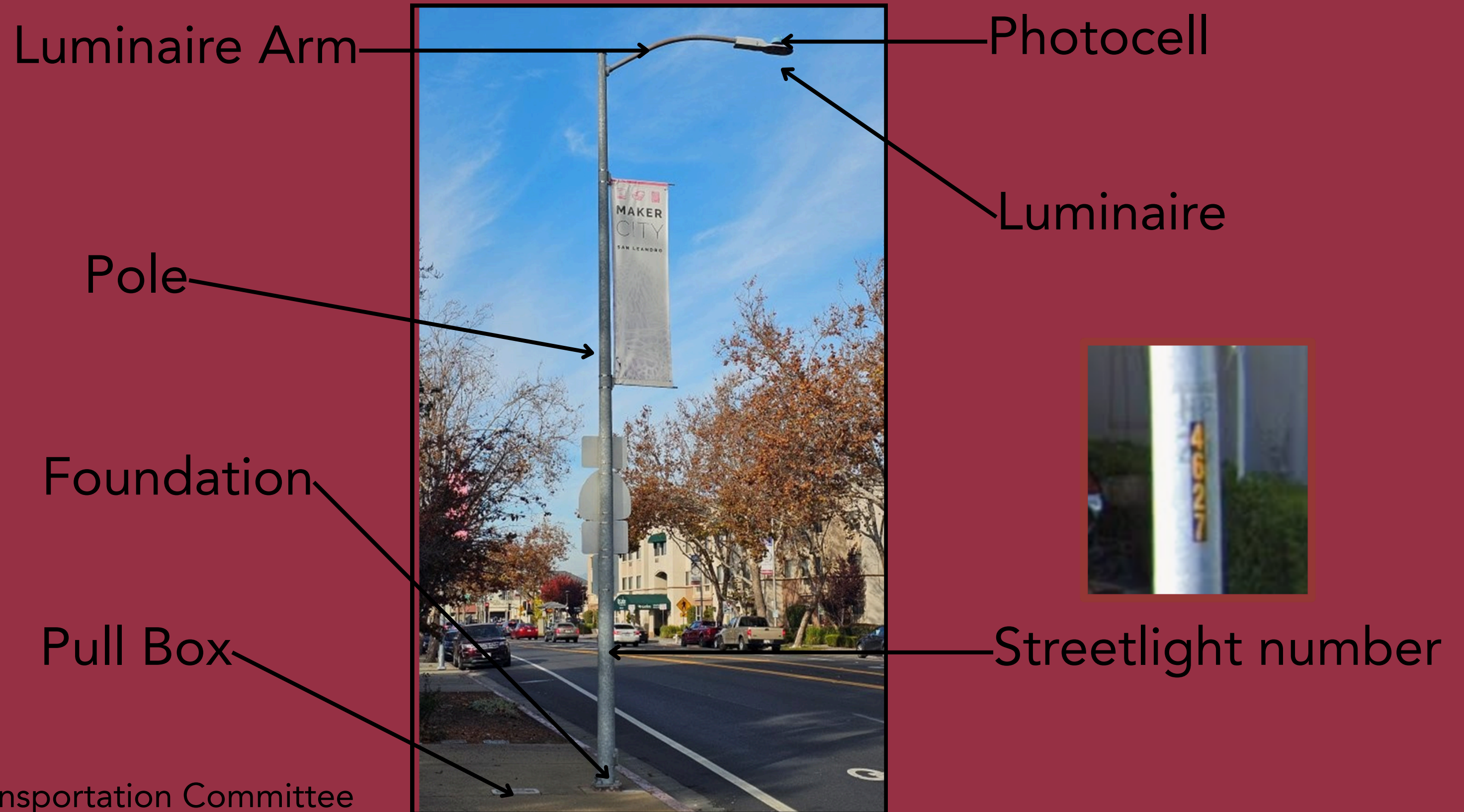
- Focuses on critical conflict points
- Installed on signal poles
- Metered electricity use



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COMPONENTS



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LUMINAIRE TYPES

High Pressure Sodium

- orange/yellow light
- poor color visibility
- shorter lifespan (15-20k hours)
- frequent maintenance

Transitioned to LEDs in 2014



Light-Emitting Diode (LED)

- white light
- better visibility
- long lifespan (50k hours)
- directional to reduce glare and light pollution

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Source: Salt Lake City Street Lighting Master Plan

ELECTRICAL/POWER

Underground

- conduits
- pull boxes for access
- newer neighborhoods
- less visual clutter
- easier for wire theft



Overhead

- wires from utility poles
- common in older neighborhoods
- less expensive to install
- shared system affected by other poles when damaged



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PHOTOCELL

A photocell is a small light-sensing device on a streetlight that automatically turns the light on at dusk and off at dawn.





EXISTING CONDITIONS

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HISTORY

1903
gas lighting replaced
with electric



1920
looking north on
Washington Avenue



1958
E.14th at Joaquin



1960
E.14th/Washington



INVENTORY



5,348



87

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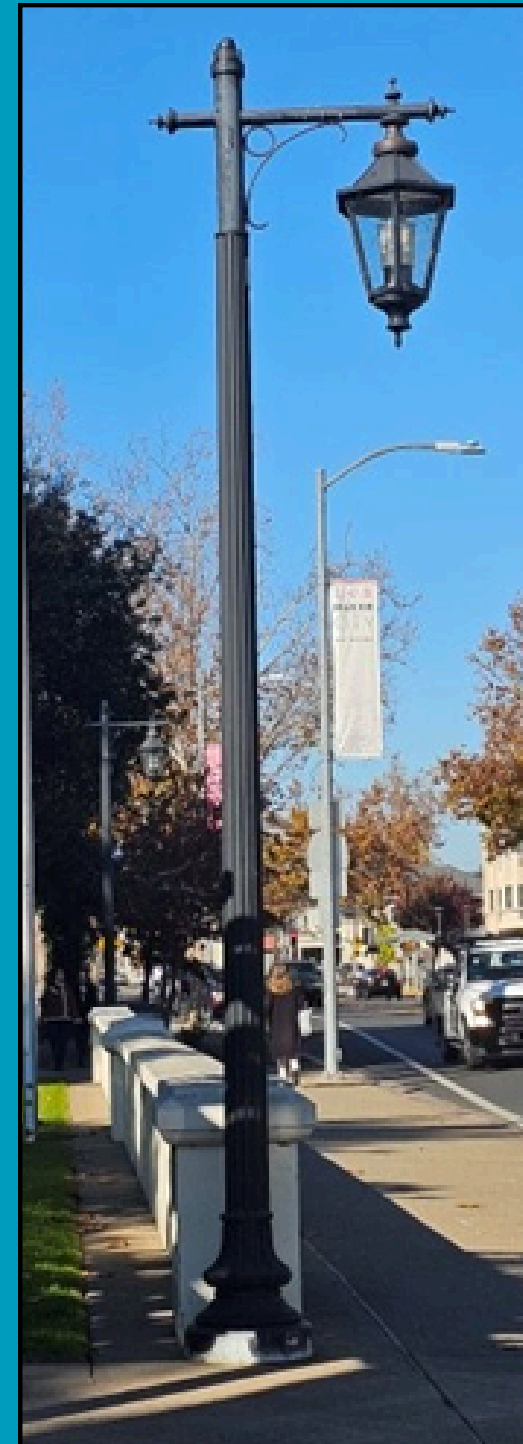
POLE TYPES



Wood (PG&E)
2,950



Metal/Standard
1,763



Decorative
395

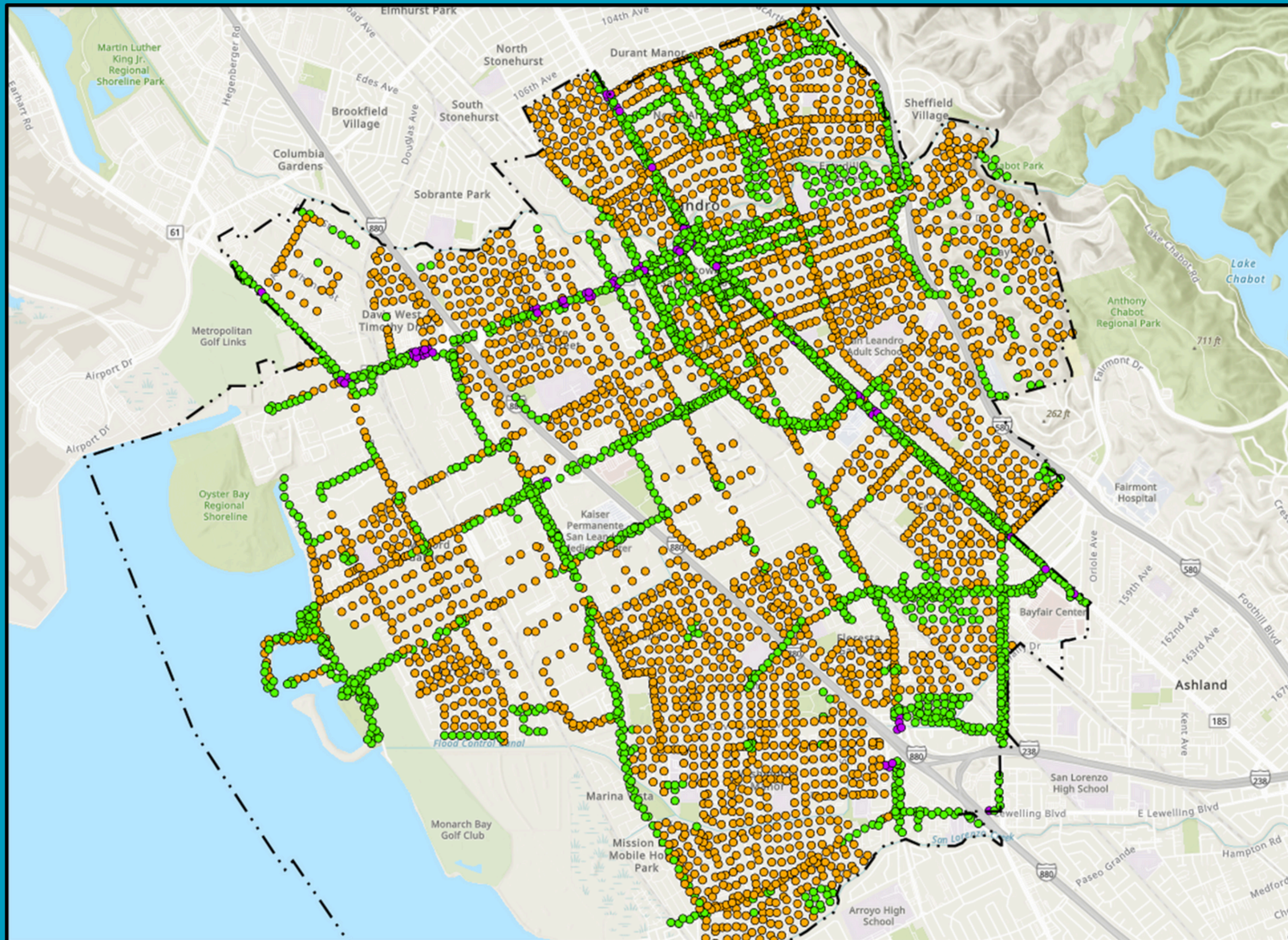


Combination
89



Concrete
13

SPACING



TYPICAL:

Bancroft Avenue: 100'-150'

E.14th Street: 100'-125'

San Leandro Boulevard: 110'-200'

Davis Street: 150'-200'

Residential: 300' max

OWNERSHIP

Orange dot: Wood PG&E pole

Green dot: City pole

Purple dot: Caltrans pole

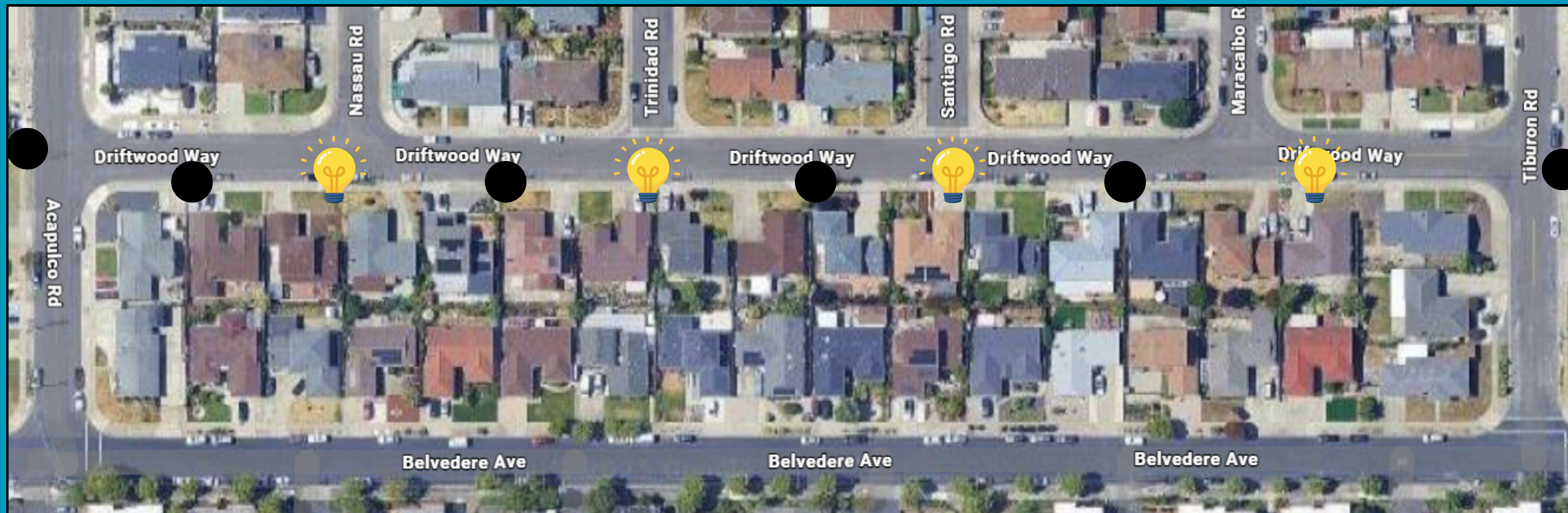
RESIDENTIAL SPACING

1969 City Internal Design Policy

- Installation on every other pole
- Approximately 300' max distance

● wood pole only

💡 wood pole w/light

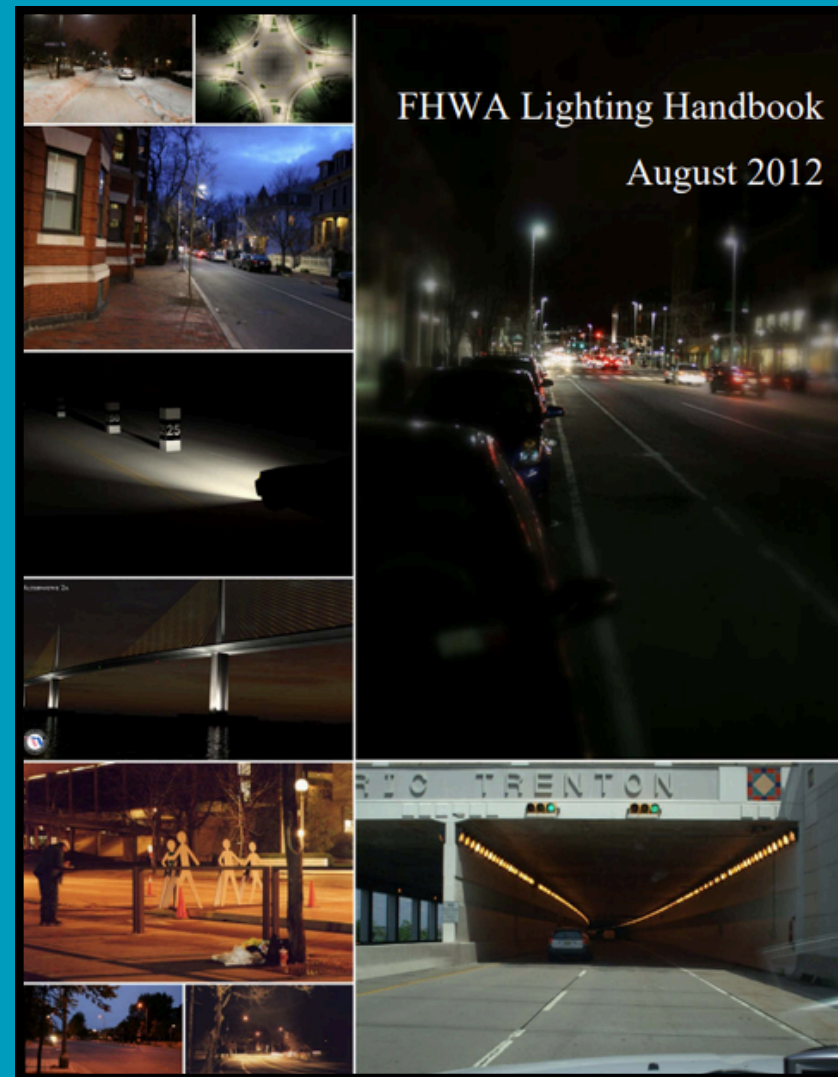


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STANDARDS/GUIDELINES

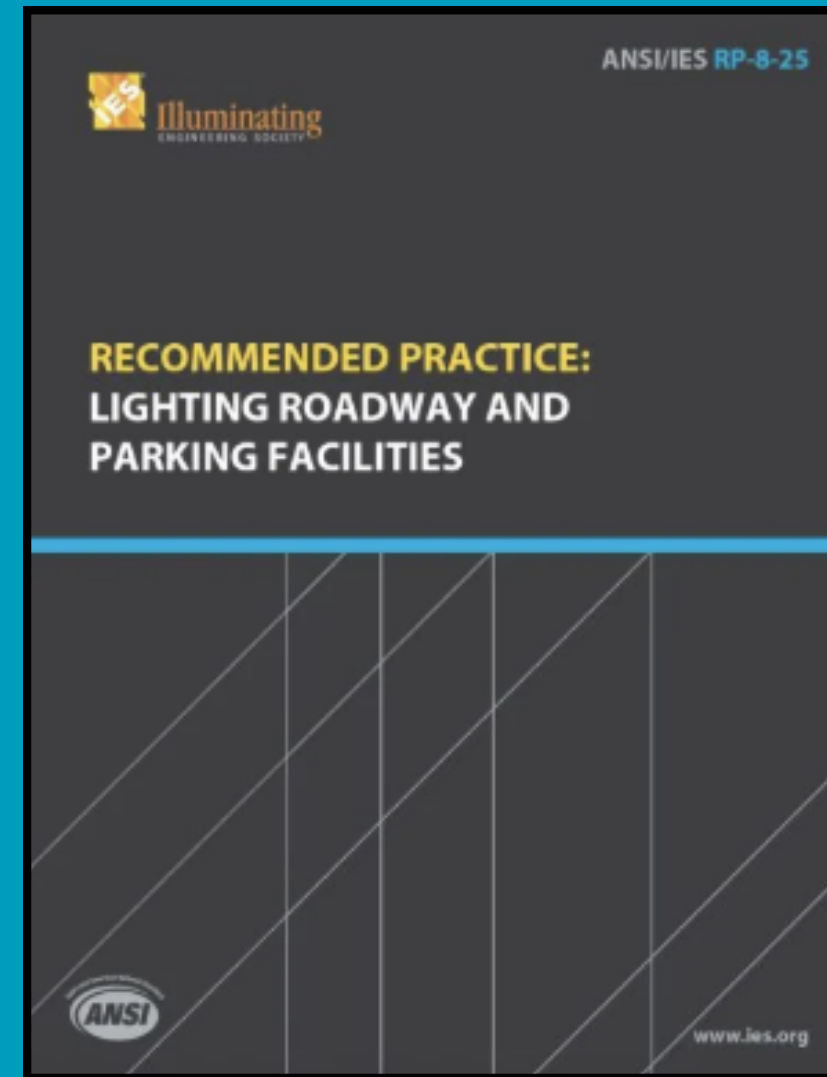
Document initial published date, typical spacing, focus



1978

~ 150-250'

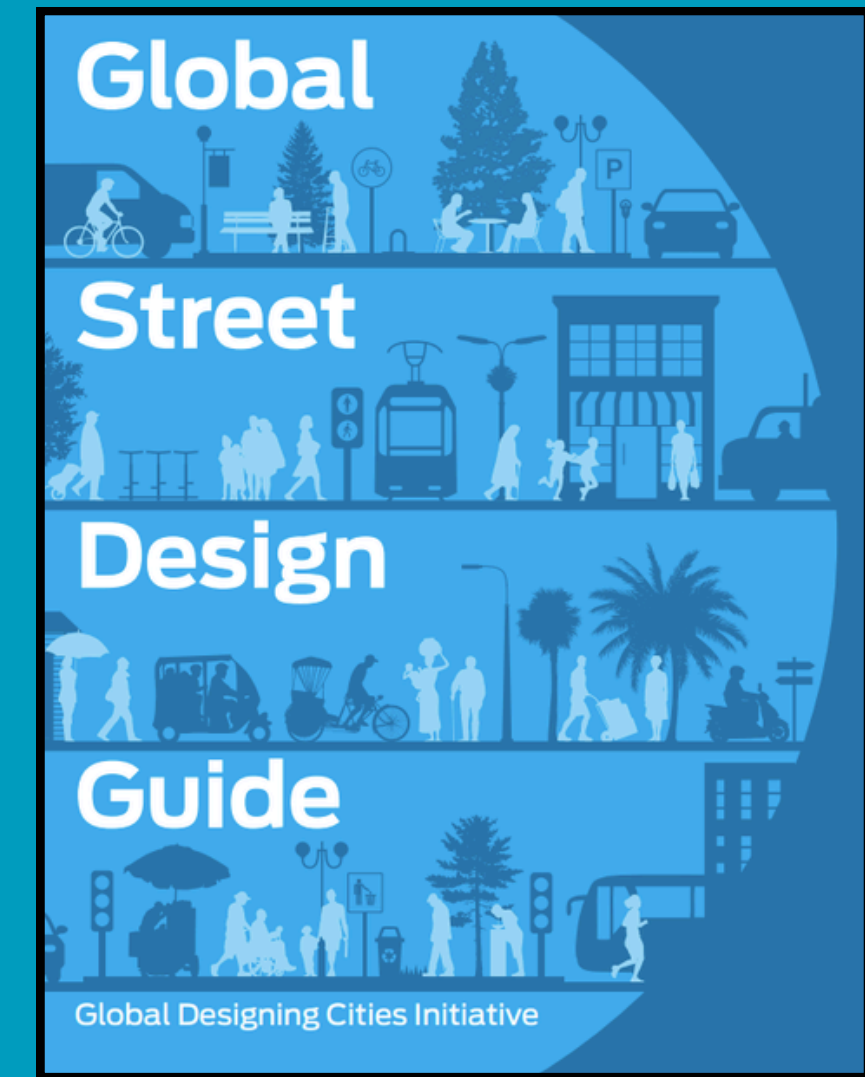
vehicle safety and roadway illumination



2000

~ 150-300'

engineering standards
for visibility and uniformity

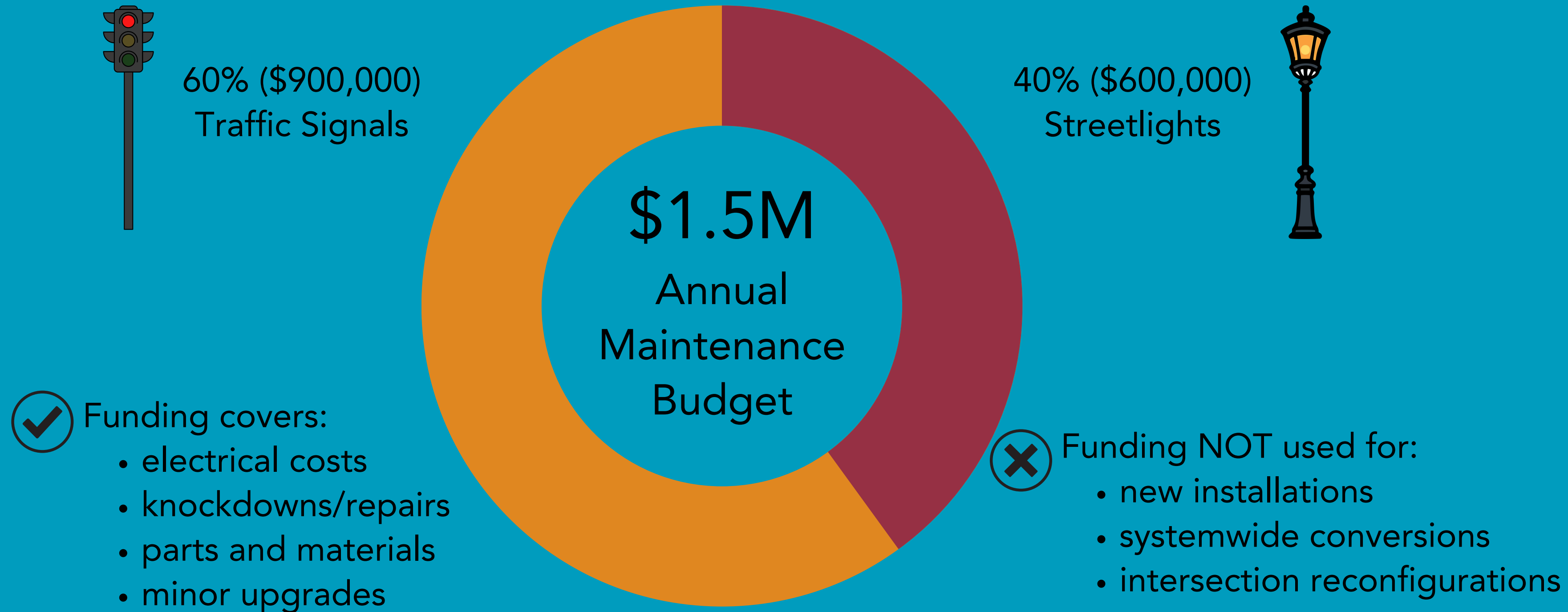


2016

~ 80-150'

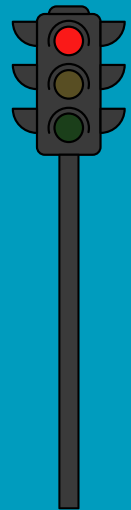
pedestrian comfort
placemaking

FUNDING



STAFFING

1 Maintenance Supervisor



- 1 Electrician
- traffic signals
 - cabinets
 - communications



- 1 Electrician
- streetlights
 - park lights
 - parking lot lights



Operating Daily and on Emergency Standby

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SERVICE REQUESTS



REPORTS

Lights Out

Actions

- PG&E issue
- vandalism (copper theft)
- replace luminaire

Knockdown

- repair
- replace

Dark

- investigate
- repair power issue
- trim trees

Crime/vandalism

- investigate
- repair/replace
- deterrence

SERVICE REQUESTS

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IMPROVEMENTS

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OPTIONS

Extend luminaire arm
~\$2,600

Install brighter luminaire
~\$2,000

Install new luminaire
on wood pole
~\$10,000

Install new metal
streetlight
~\$25,000

Challenges/Limitations

- uneven lighting

- glare
- light trespass
- higher energy use

- utility coordination delays
- structural limitations

- high upfront costs
- construction impacts
- ongoing O&M costs
- right-of-way constraints

NEW INSTALLATIONS/ MODIFICATIONS

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INFORMATION ONLY QUESTIONS?