



City of
San Leandro

STREETLIGHTS

January 8, 2026
Facilities and Transportation Committee



AGENDA

1
Basics

2
Existing
Conditions

3
Improvements

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

January 8, 2026

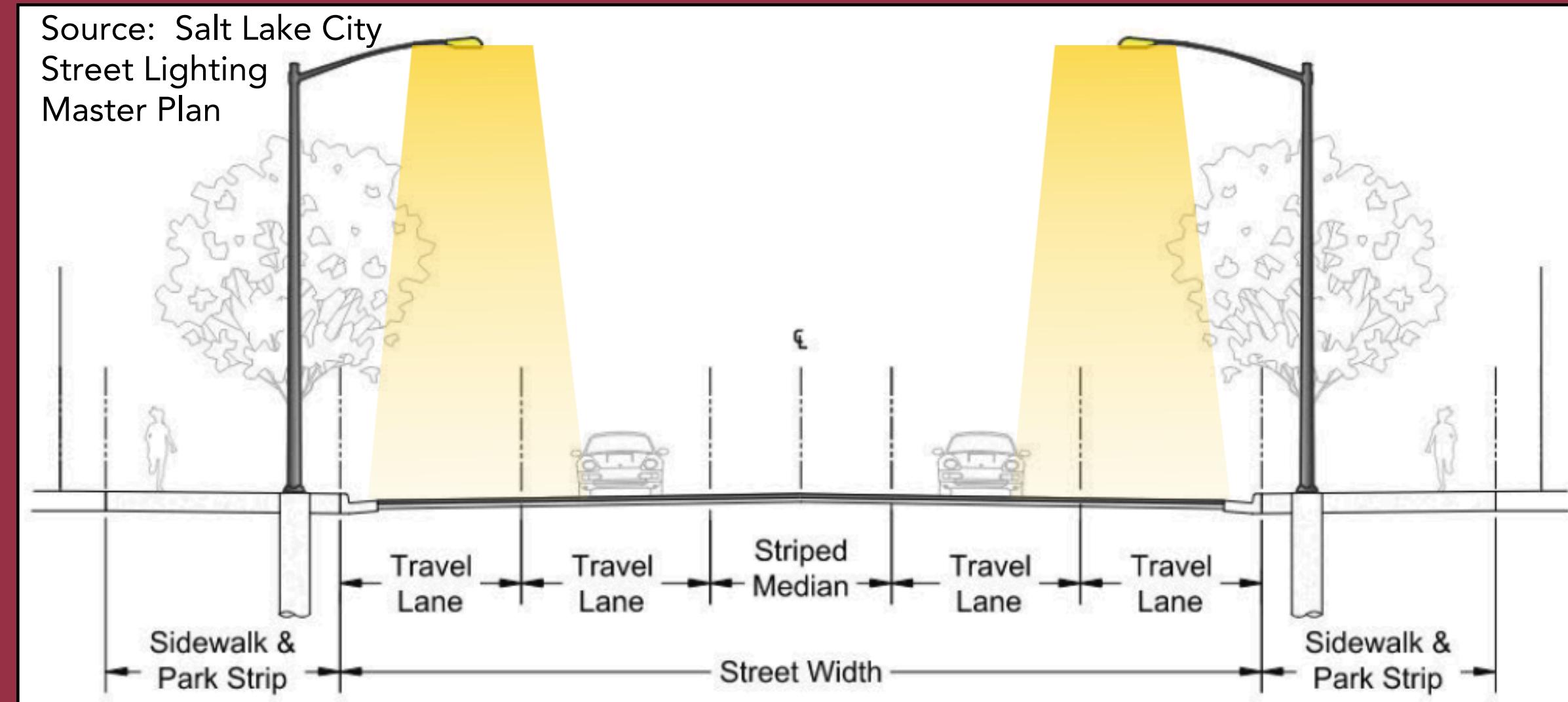
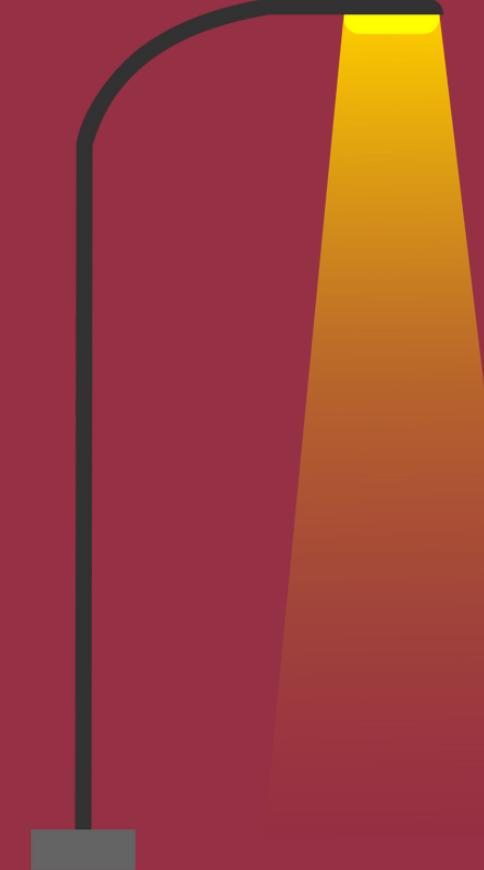
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DEFINITION

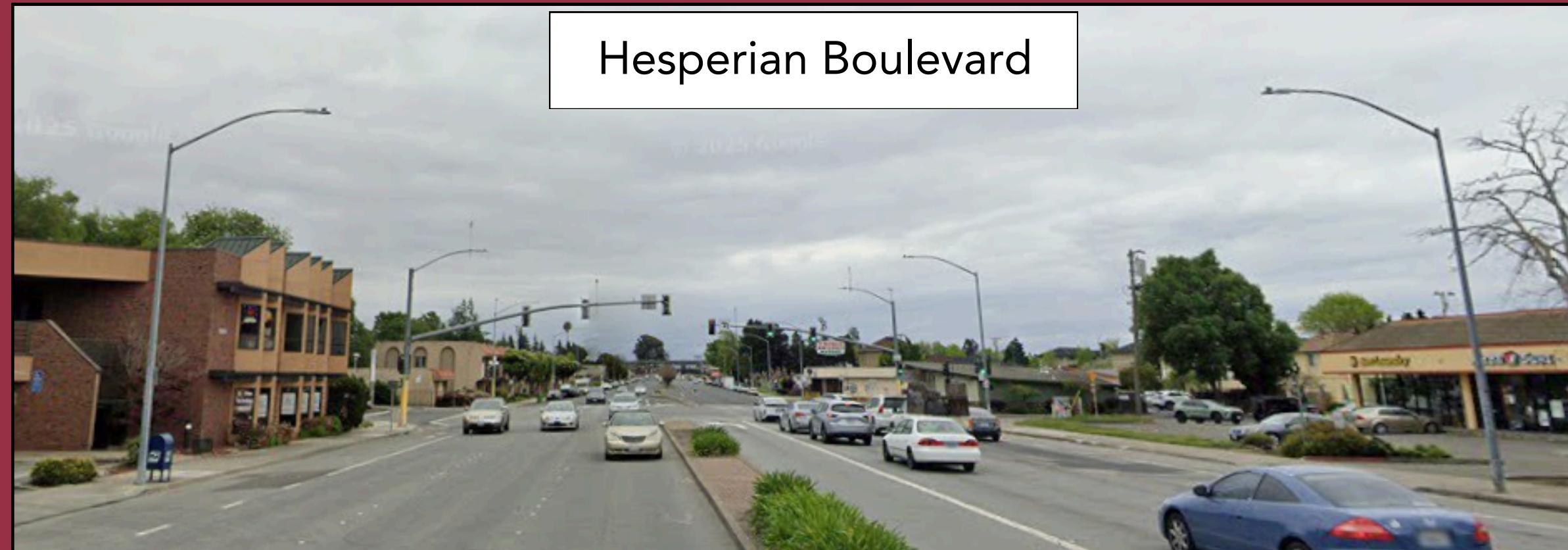
A city streetlight is an outdoor light installed along the public street to improve nighttime visibility.



Streetlighting Only



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

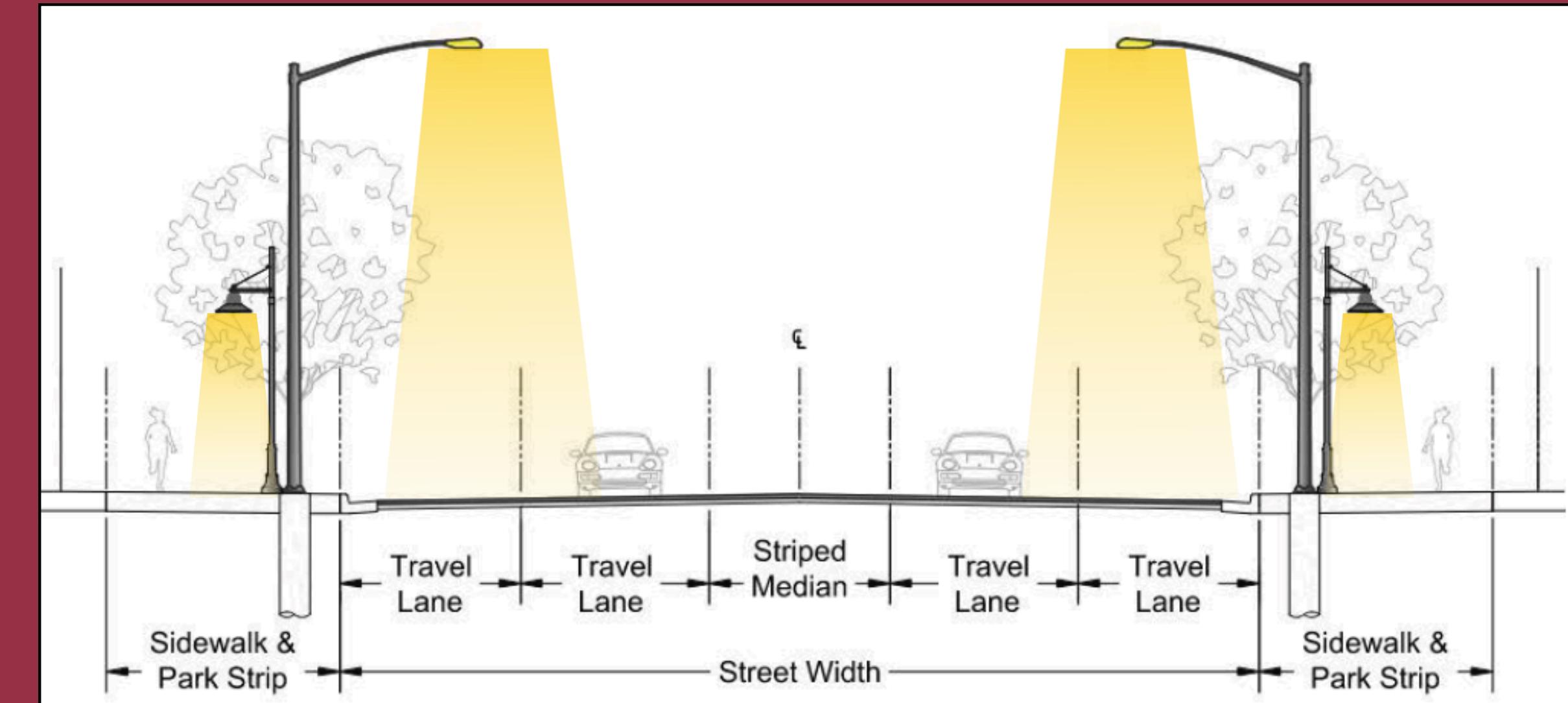


Street & Pedestrian Lighting

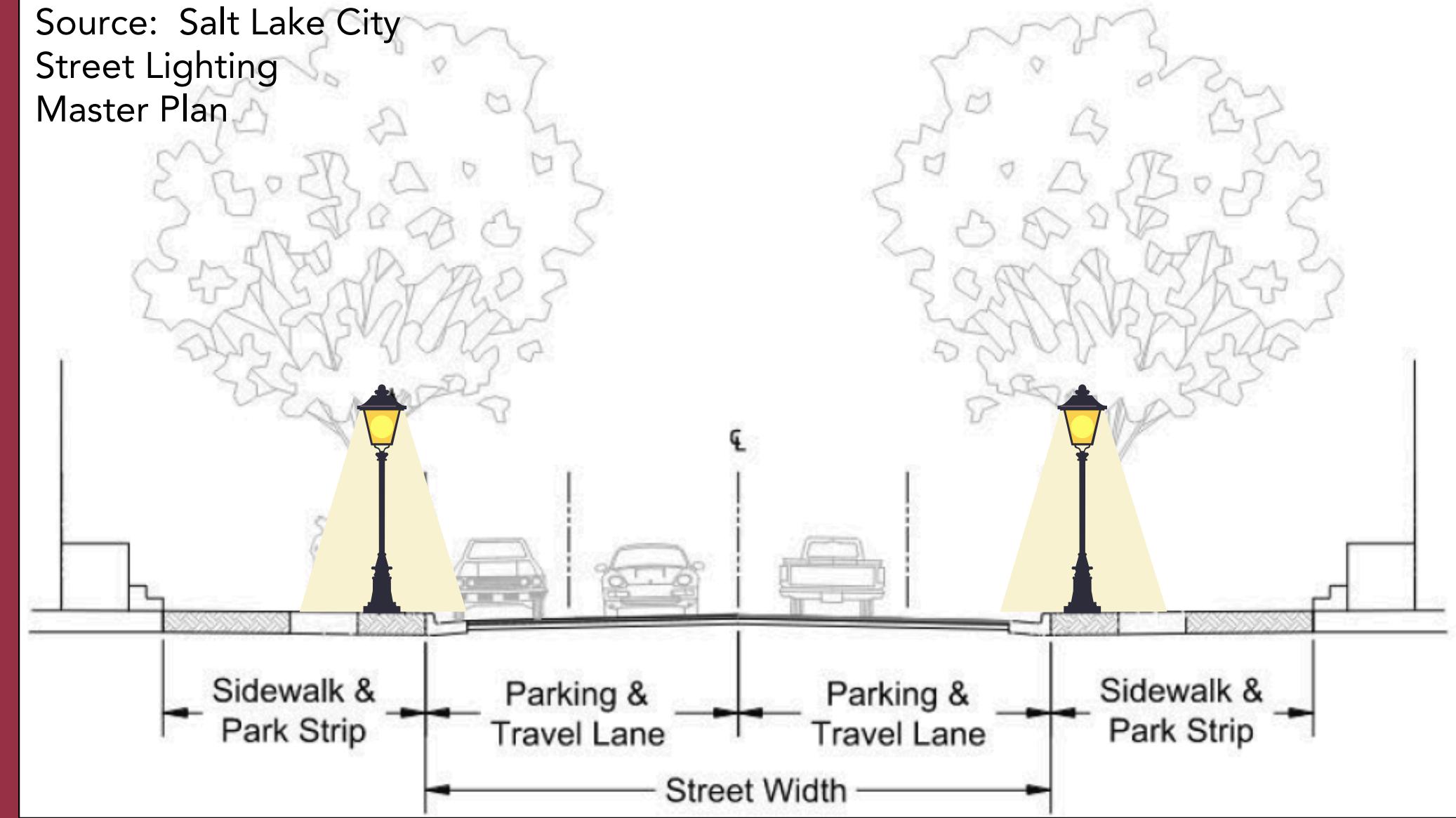
Typically used in:

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

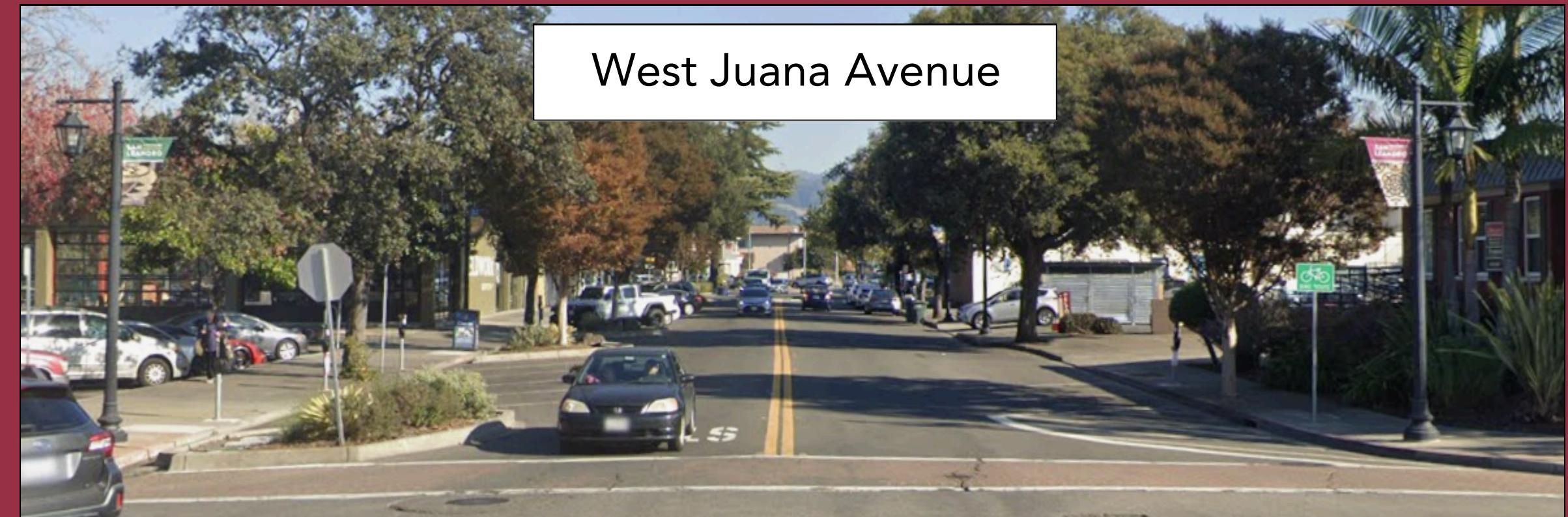
More visually comfortable pedestrian environment



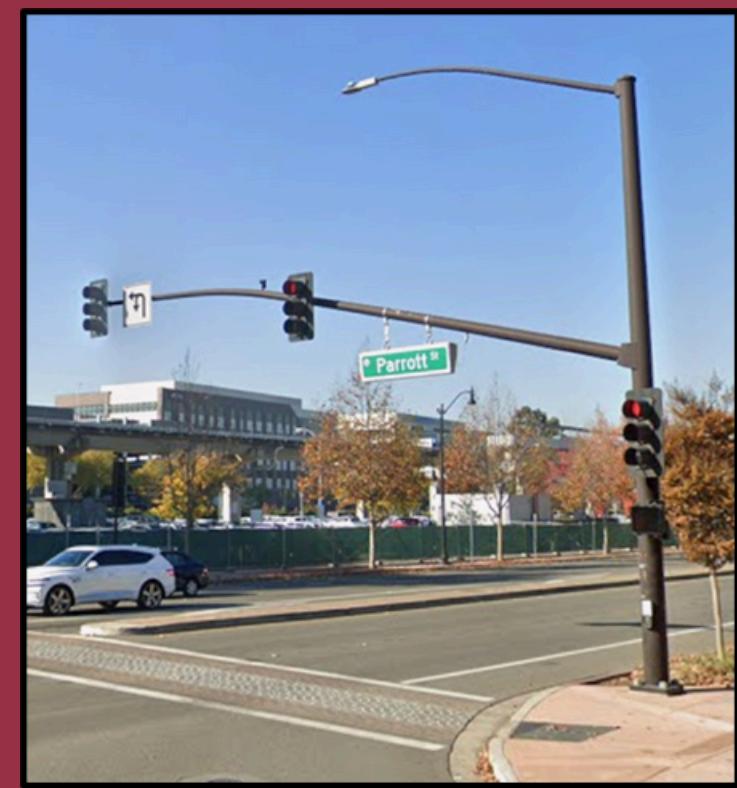
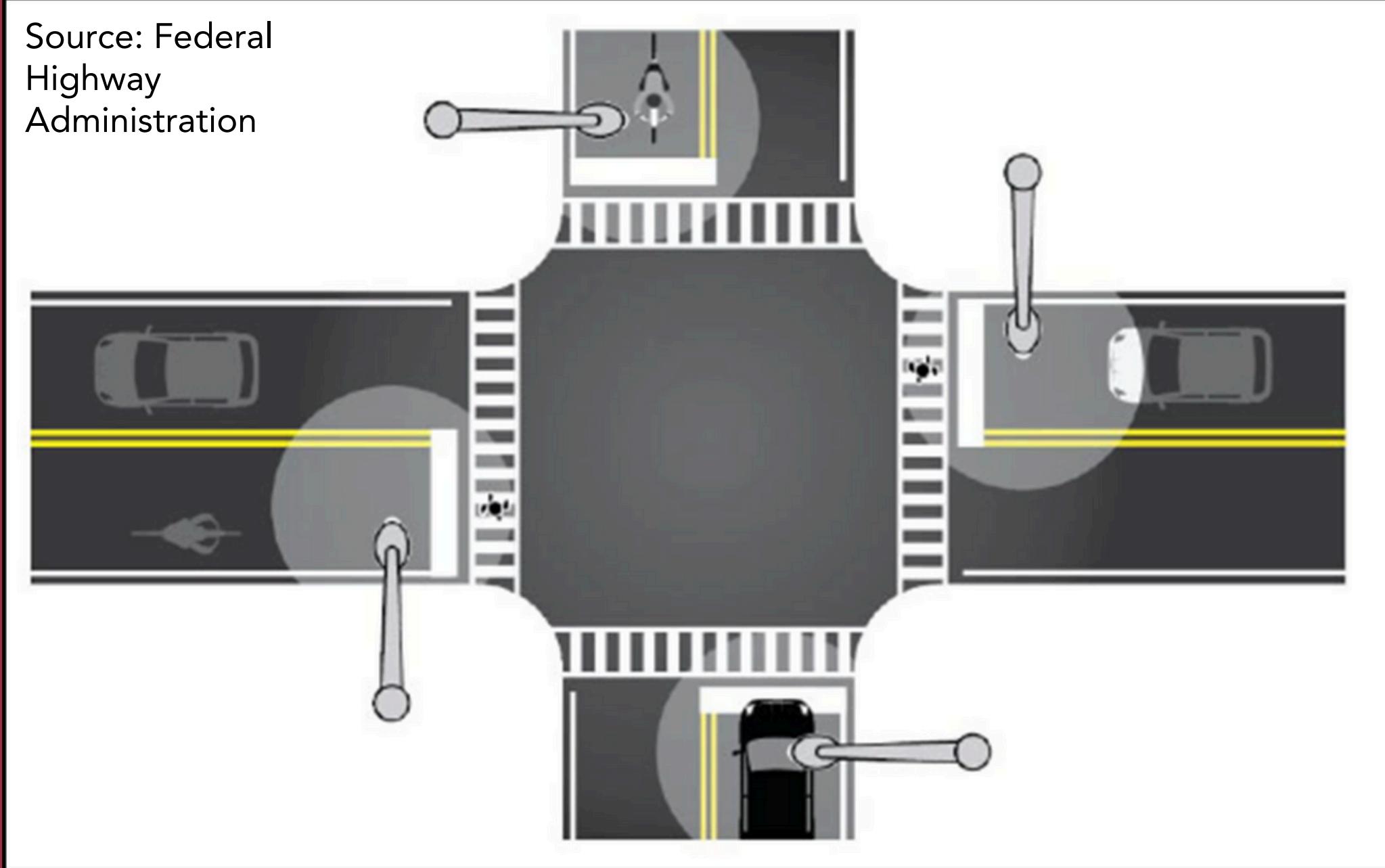
Pedestrian Lighting Only



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

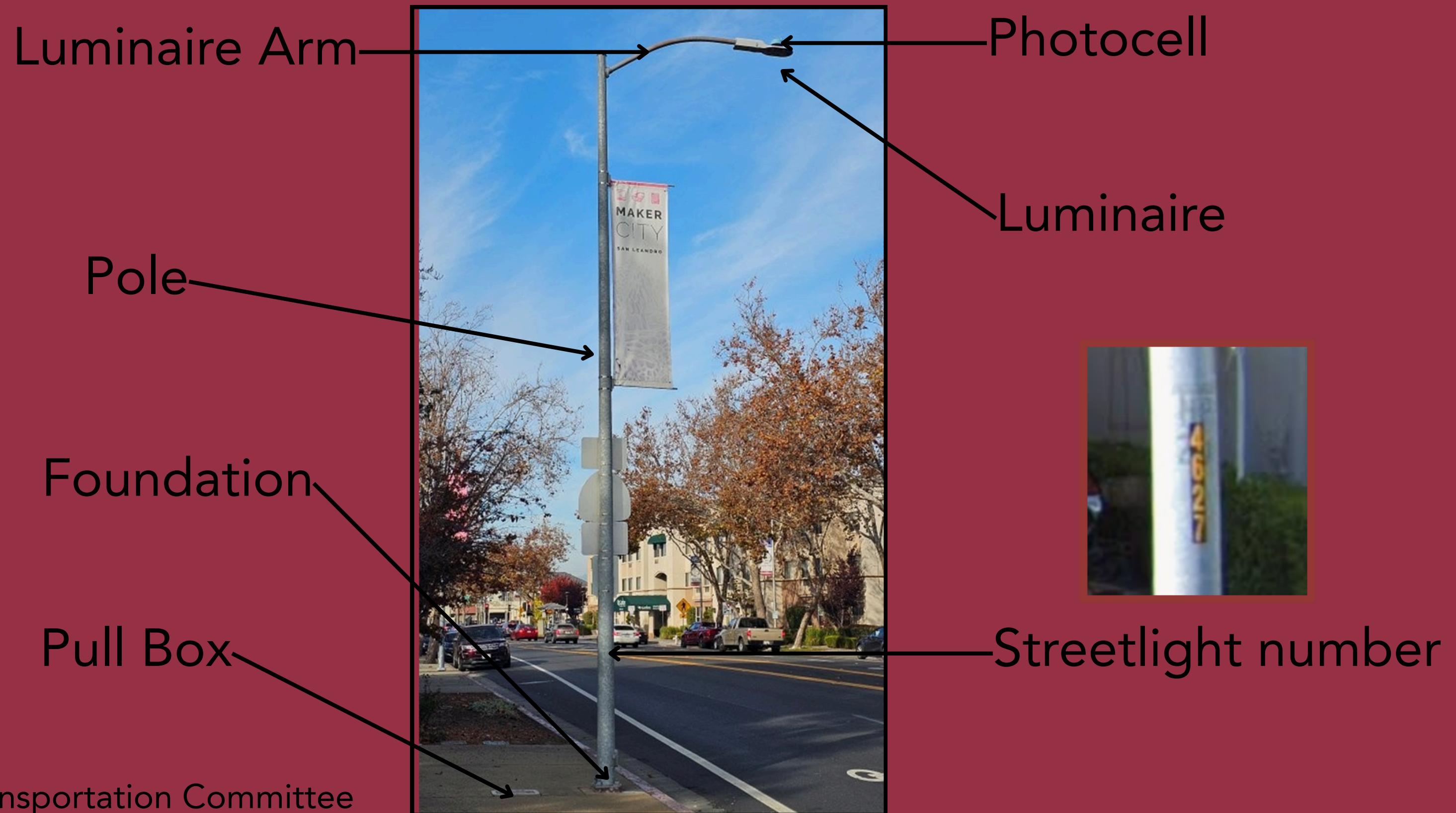


Intersection/Safety Lighting



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

COMPONENTS

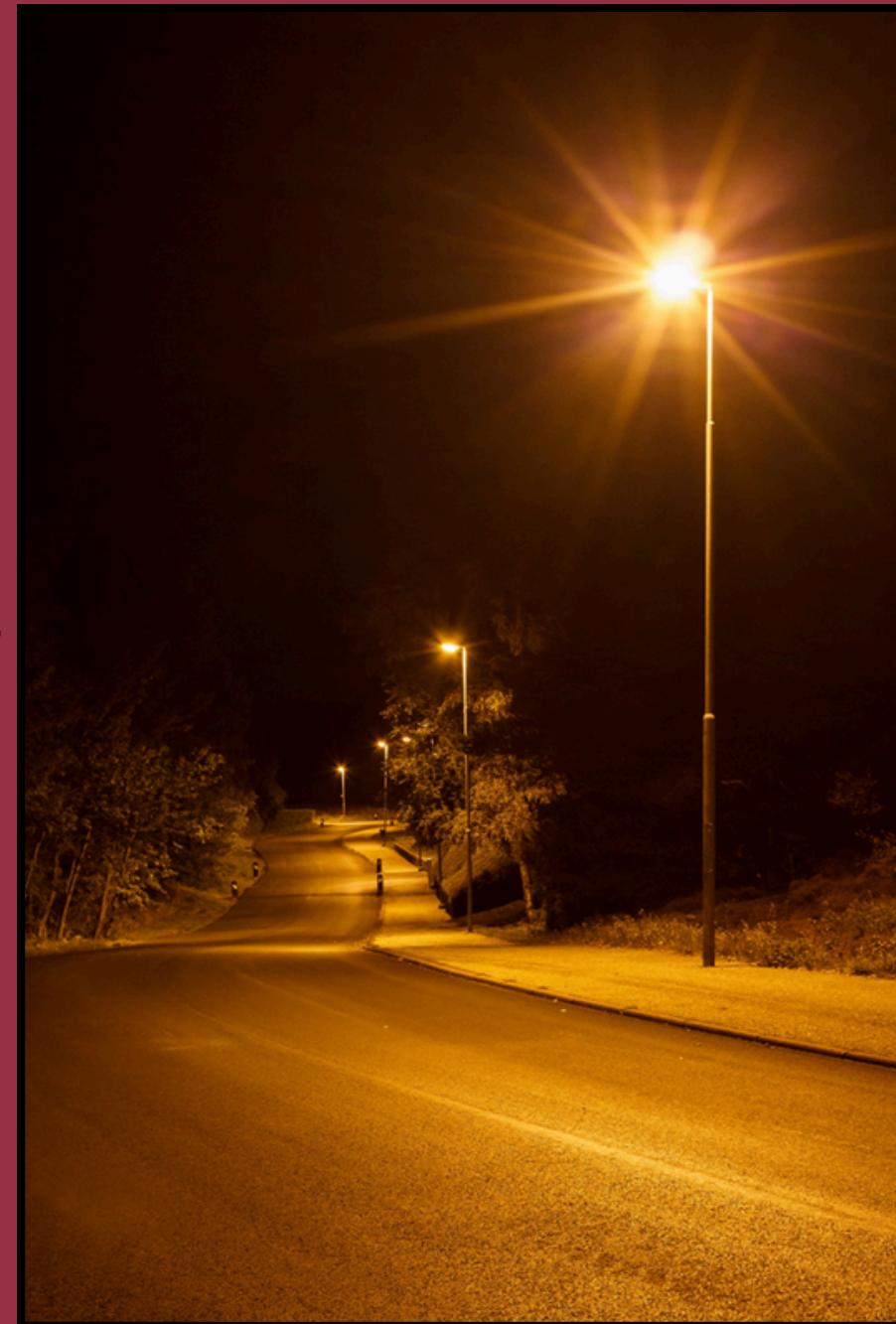


LUMINAIRE TYPES

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

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



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



1958
E.14th at Joaquin



1920
looking north on
Washington Avenue

1960
E.14th/Washington

INVENTORY



5,348



87

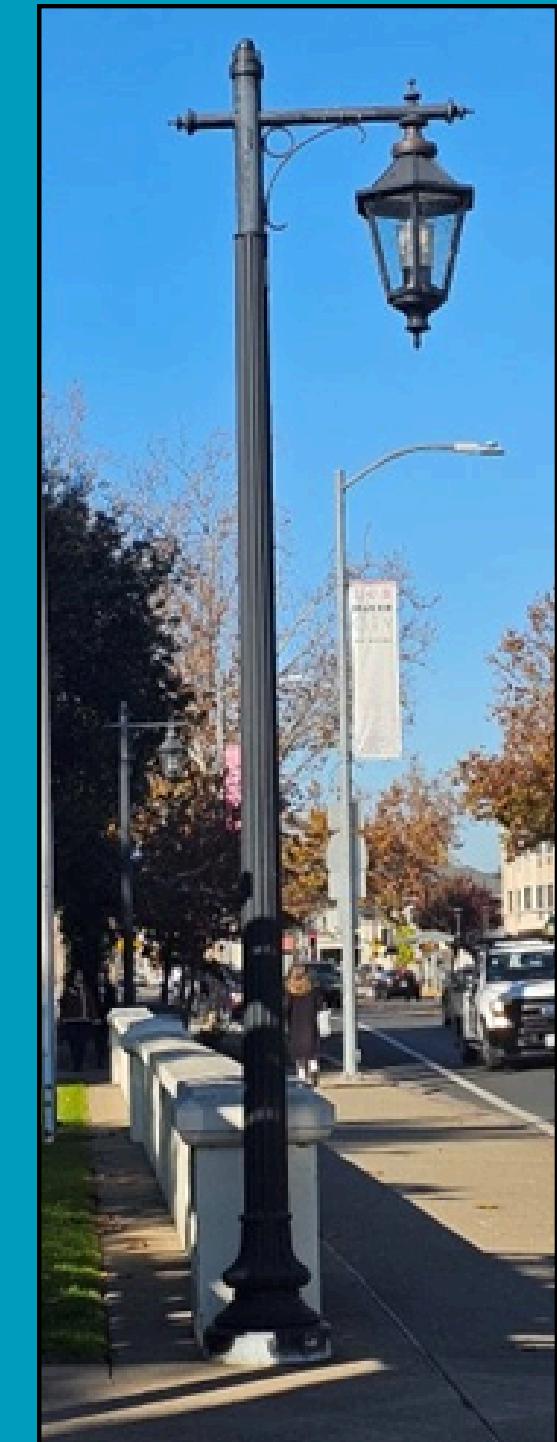
POLE TYPES



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

● Wood PG&E pole

● City pole

● Caltrans pole

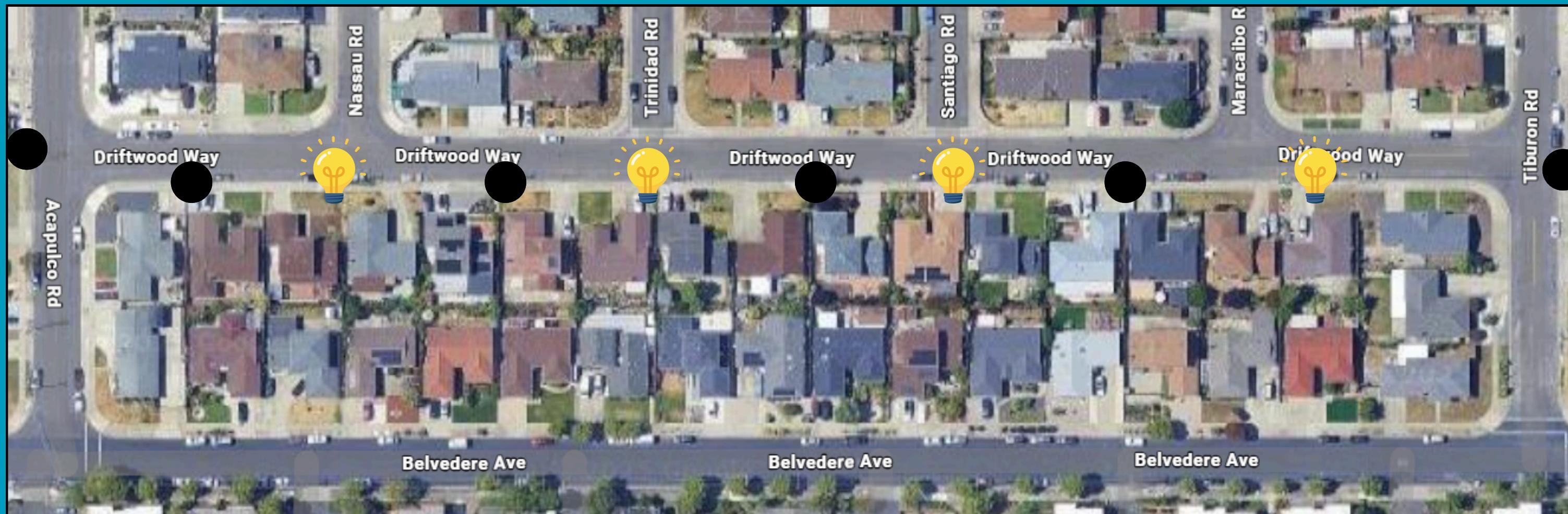
RESIDENTIAL SPACING

1969 City Internal Design Policy

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

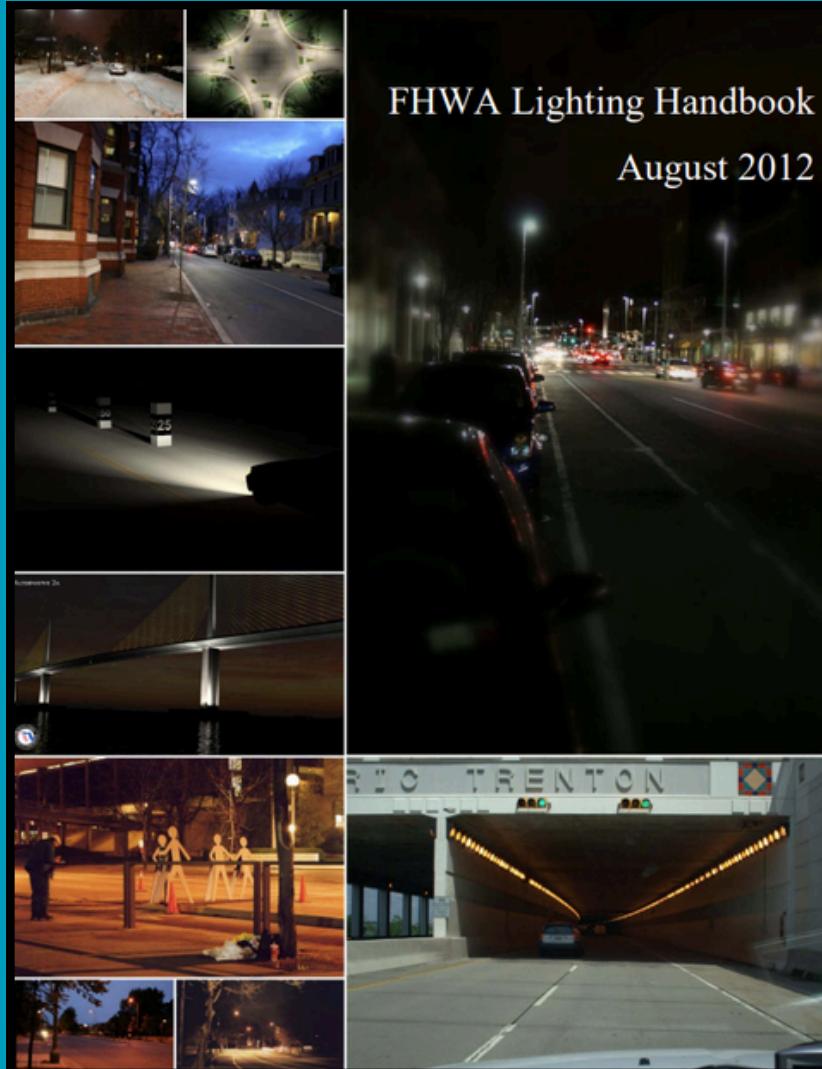
● wood pole only

💡 wood pole w/light



STANDARDS/GUIDELINES

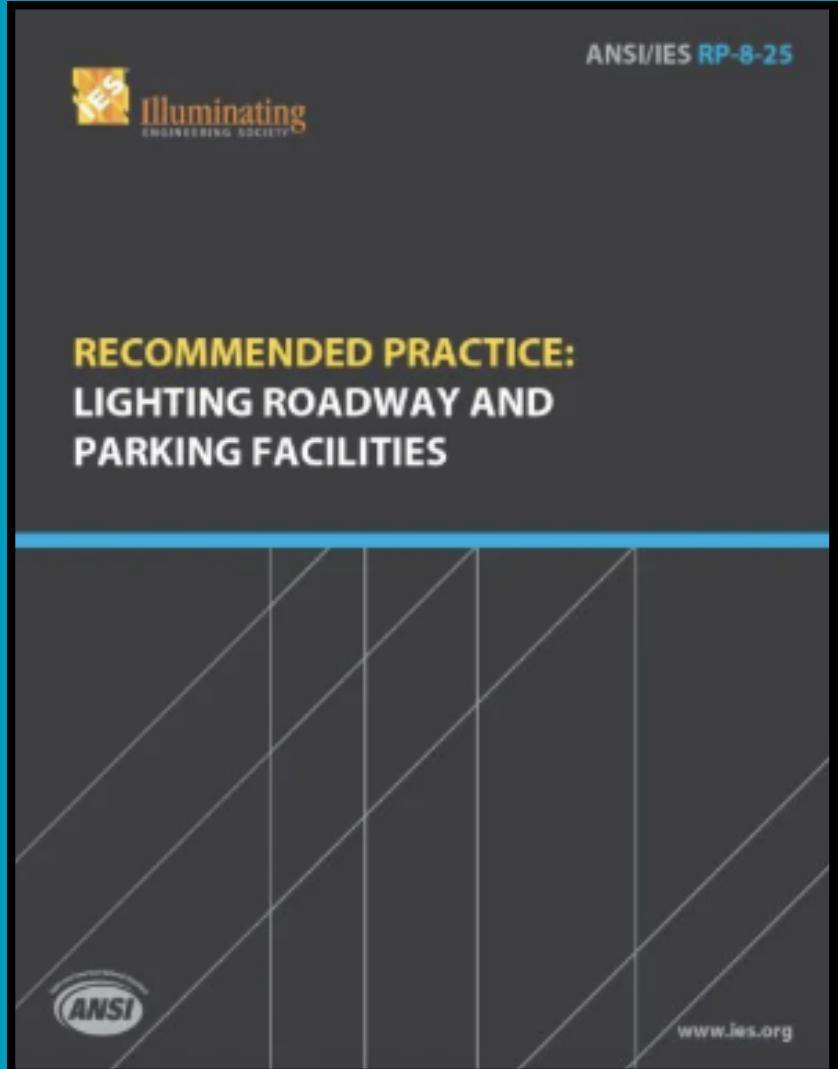
Document initial published date, typical spacing, focus



1978

~ 150-250'

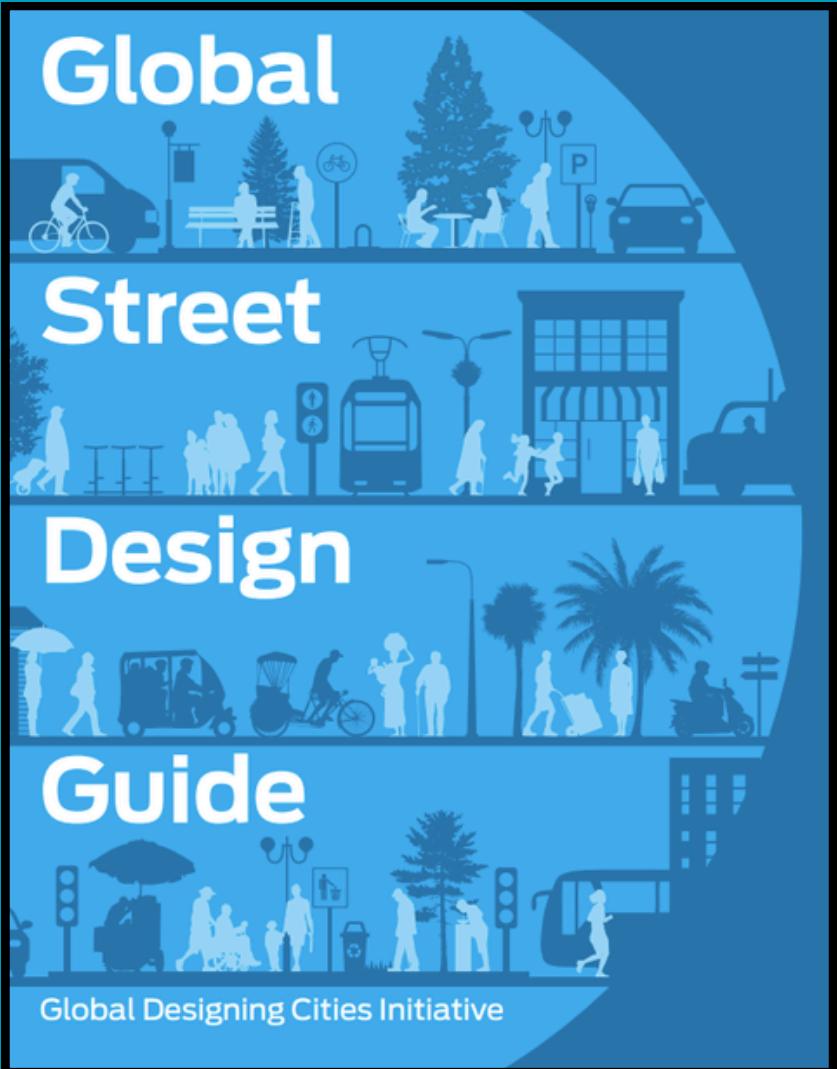
vehicle safety and
roadway illumination



2000

~ 150-300'

engineering standards
for visibility and uniformity



2016

~ 80-150'

pedestrian comfort
placemaking

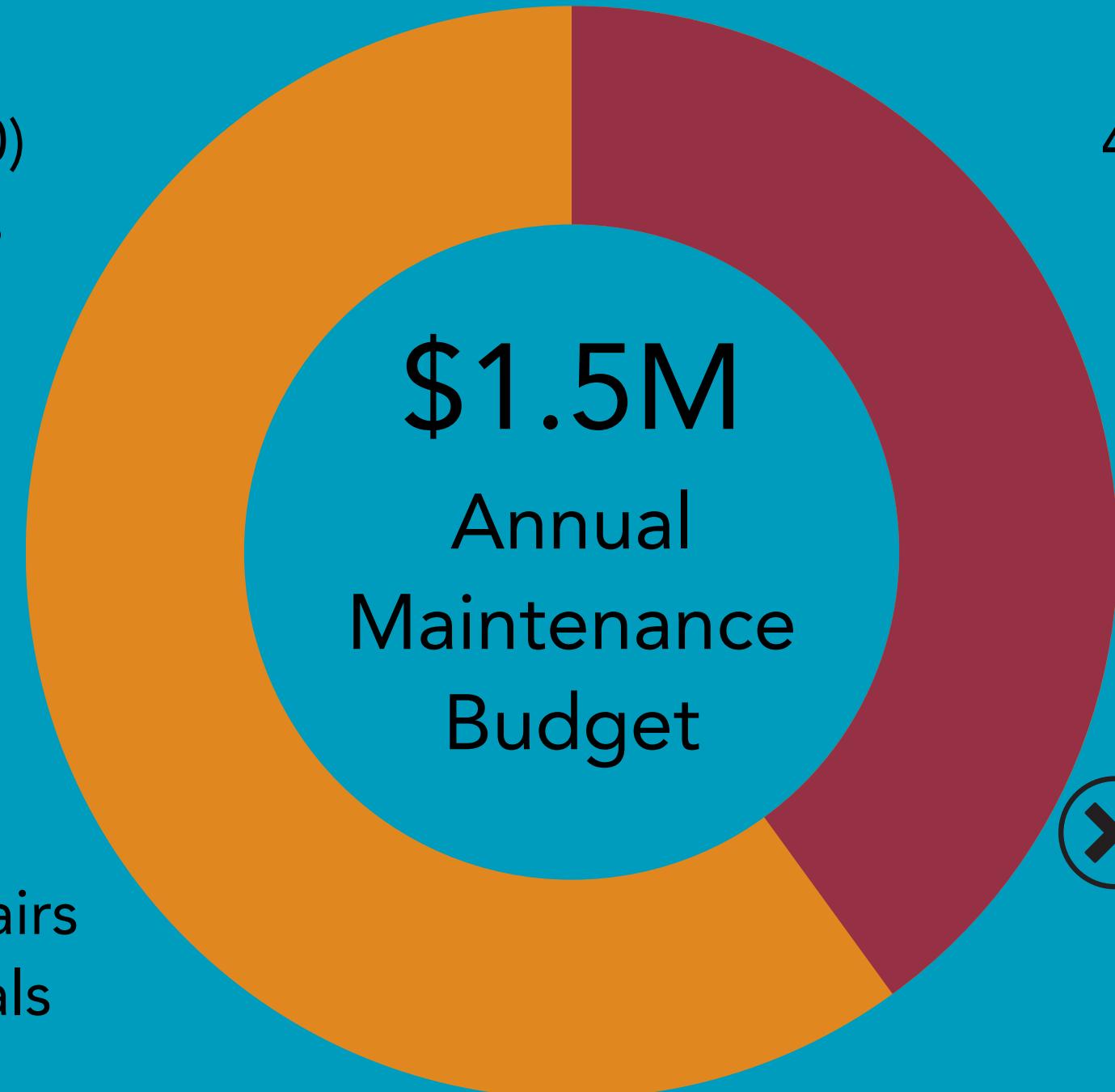
20

FUNDING



60% (\$900,000)
Traffic Signals

40% (\$600,000)
Streetlights



Funding covers:

- electrical costs
- knockdowns/repairs
- parts and materials
- minor upgrades

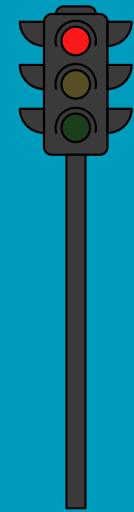


Funding NOT used for:

- new installations
- systemwide conversions
- intersection reconfigurations

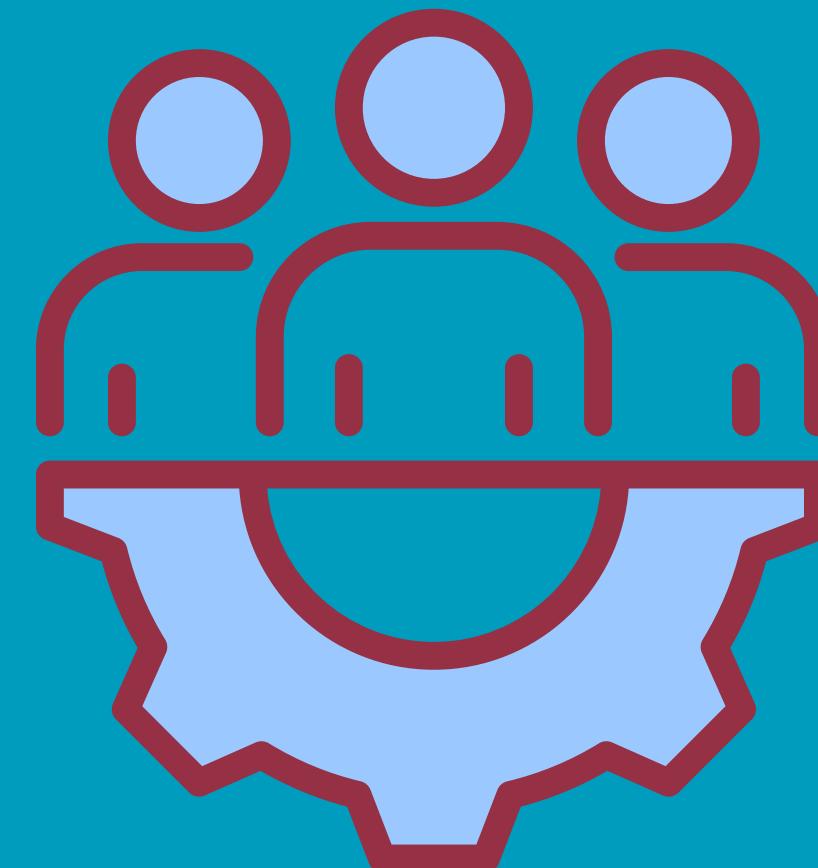
STAFFING

1 Maintenance Supervisor



1 Electrician

- traffic signals
- cabinets
- communications



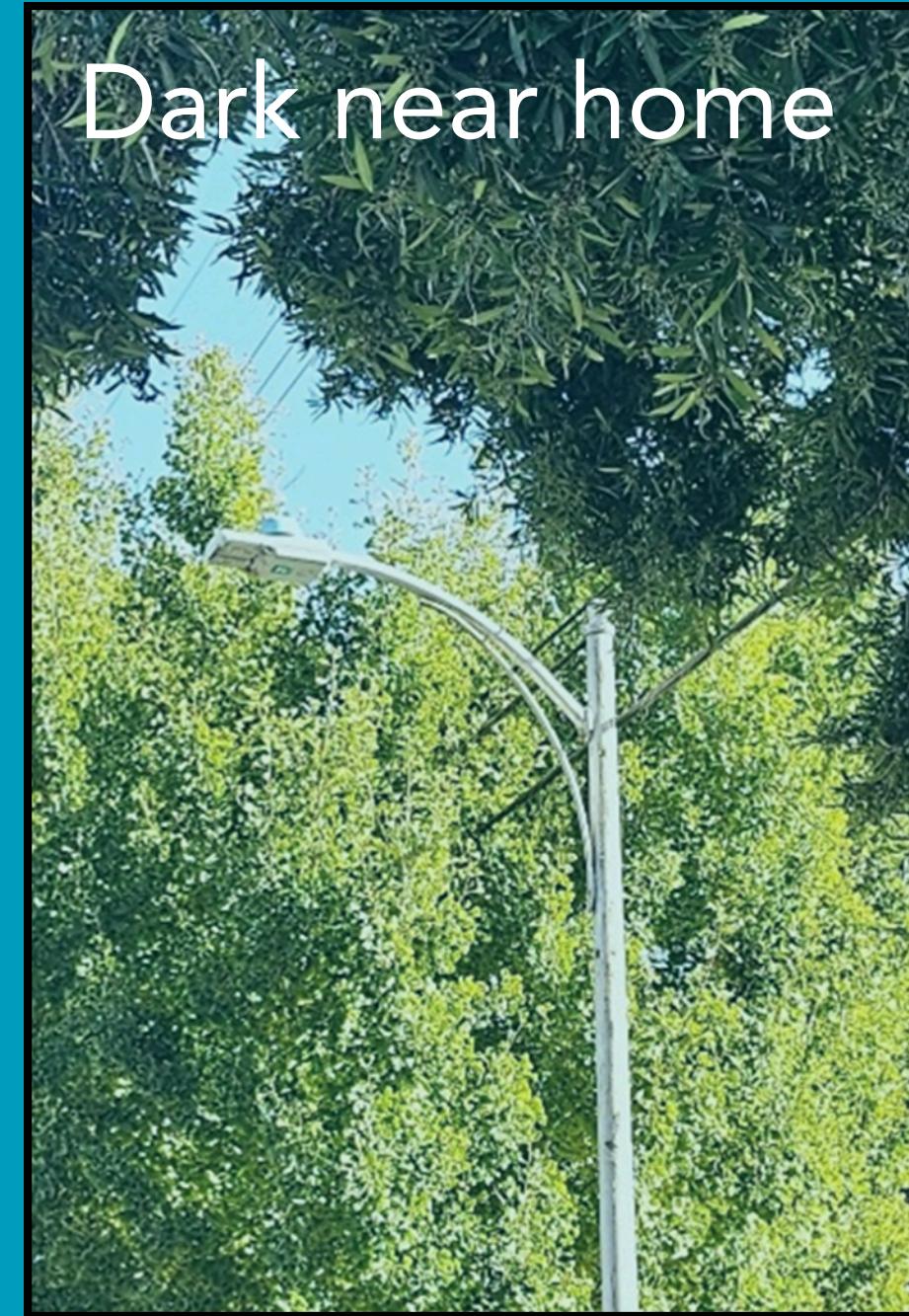
1 Electrician

- streetlights
- park lights
- parking lot lights



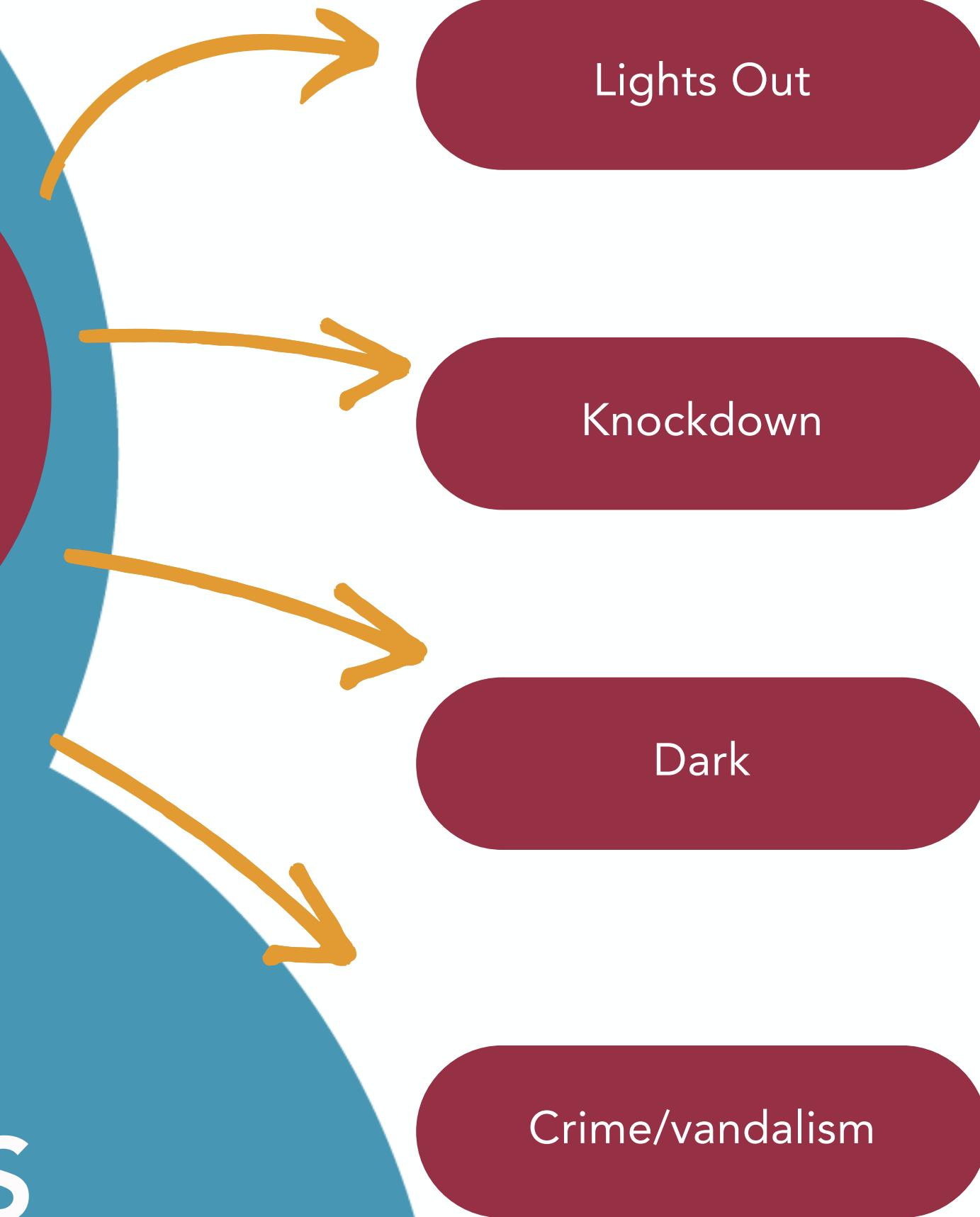
Operating Daily and on Emergency Standby

SERVICE REQUESTS



SERVICE REQUESTS

REPORTS



Actions

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

- repair
- replace

- investigate
- repair power issue
- trim trees

- investigate
- repair/replace
- deterrence

IMPROVEMENTS

NEW INSTALLATIONS/ MODIFICATIONS

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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

INFORMATION ONLY QUESTIONS?