### Street Design Standards Amendment

Community Roundtable Meeting #1 Project Kick-off

June 14, 2024 10am – 12pm



Street Design Standards Amendment

## Agenda

Agenda Item	Time
1. Introductions	15 min
2. Project Background & Goals	25 min
3. Sacramento's Current Street Design Ecosystem	15 min
4. Restroom break	5 min
5. State of Practice Snapshot	20 min
6. Feedback Activity #1: Ranking Topics of Interest	20 min
7. Feedback Activity #2: Streets that Reflect City policy	15 min
8. Next Steps	5 min



## Introductions



#### City's Project Team: Led by Transportation Planning (Department of Public Works) Led by Transportation Jennifer Donlon Wyant ("JDW") Project Manager Casandra Cortez Dylan Samdin

#### Consultant Team:







# Introduce Yourself!

- Name
- Organization / Affiliation
- Interest in Transportation in Sacramento



# Project Background and Goals



Time check: 10:15 am

# What are we here to talk about?

What are the Street Design Standards?

A section of the City's Design and Procedures Manual

Design and Procedures Manual

Section 15 - Street Design Standards

July 2009

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What will these Street Design Standards include?

• Sidewalk and street tree buffer widths





#### What will these Street Design Standards include? (1/2)

- Sidewalk and street tree buffer widths
- Bikeway types and widths





What will these Street Design Standards include? (2/2)

- Sidewalk and street tree buffer widths
- Bikeway types and widths
- Travel lane widths
- E†c...





#### What will these Street Design Standards **not** include?

- Broad transportation network decisions, such as:
  - Where to install bike lanes or "road diets"
  - How to operate traffic signals
- Specifics or particular streets / corridors





# Why the focus on Section 15?



### Project Objectives

Act on policy direction:

- Vision Zero Action 2.1: Update City street design standards to reflect complete streets and designs reflective of crash reduction factors.
- Climate Action and Adaptation Plan: To accomplish climate friendly travel choices, the City must update our Street Design Standards to ensure there are real options for Sacramentans to travel on complete, low stress, all ages and abilities streets by walking, biking, and transit use.



# 2040 General Plan Policies



- M-1.2 User Prioritization. The City shall prioritize mobility, comfort, health, safety, and convenience for those walking, followed by those bicycling and riding transit, ahead of design and operations for those driving.
- M-1.5 Street Design Standards. The City shall maintain street design and operations standards that prioritize comfort and travel time for walking, bicycling, and transit, while managing vehicle speeds and traffic volumes, updating them as best practices evolve.
- MRC-3.2 Tree Canopy Expansion. The City should strive to achieve a 25 percent urban tree canopy cover by 2030 and 35 percent by 2045. Prioritize tree planting and tree maintenance in areas with the lowest average canopy cover and explore strategies to reduce barriers to tree planting in disadvantaged communities and improve tree health.

### Why these directives?



People are dying and being seriously injured on our streets.



## Why?(1/6) Between 2013-2022 309

**people were killed** on Sacramento streets





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# Why? (2/6) Between 2013-2022 2,604

people were **severely injured** on Sacramento streets



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# Why? (3/6)

## Most fatalities per capita in California



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#### 2013-2022 Data

# Why? (4/6)

These fatalities and severe injuries were preventable.

These were preventable through street design. We need to update our standards to reflect new crash reduction measures.





# Crashes impact City resources



# Why? (5/6)

Crashes result in Police calls for service





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Vehicle Accident-Report Referral 12,273 Vehicle Accident-Report 2,117 Vehicle Accident-No Or Unknown Injuries 35,677 Vehicle Accident-Injuries 23,197 Vehicle Accident Into Building 1,081 Misdemeanor Hit & Run-Report Referral 12,159 Misdemeanor Hit & Run-Report 1,407 Misd Hit And Run-Less Than 5 Ago 6,087 Felony Hit & Run-Report 572 Felony Hit & Run-Injuries 3,249 Drunk Driver 662

10,000

15,000

20,000

25,000

30,000

35,000

40,000

2013-2022 Data - 5,000

# Climate change will negatively impact Sacramento Figure 1-4. Annual Number of Extreme Heat Days

#### SACRAMENTO

1,500 trees estimated to have fallen in Sacramento during storm, officials say

Sacramento Public Works Department officials say the city's Urban Forestry section received about 3,000 calls for service in the first three weeks of January.



Historic Data Projected Data

# Why? (6/6)

The vast majority of Sacramento's greenhouse gas emissions come from transportation sources.

Council directed goals include:

Transportation 57%

- Achieve 6% active transportation mode share by 2030 and 12% by 2045
- Achieve 11% public transit mode share by 2030 and maintain through 2045





# Street design affects how people travel

If people do not feel safe to walk, bicycle or take transit, they will likely drive.



# Why are we doing this ?

- Save lives
- Avoid serious injuries
- Address climate change
- Make our city street safe, comfortable,
  and enjoyable to use



# What can you do as a Community Roundtable member?



### How can you contribute?

#### Stay engaged

 Review documents in advance, come with questions

• Your input is crucial!



# Project outcomes and what can you expect



## Engagement Process – Project Partners

#### **Community Roundtable:**

 External organizations / agencies with a direct interest (you!)

#### **Community Meetings:**

Public forum

#### **Technical Advisory Committee**

 Internal City sections / divisions (e.g. Utilities, Fire Department, Public Works, Community Development, etc)





#### Project Process

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## Community Roundtable Meetings

- #1: Community Roundtable Kickoff [Today]
- #2: Building Suite of Engineering Tools (1/2) [Early Fall, 2024] (Based on based practices)
- #3: Building Suite of Engineering Tools (2/2) [Late Fall, 2024] (Based on based practices)
- #4: Discuss Public Draft [Early Fall, 2025]



The purpose of these workshops is not to cover all topics that will be in the guidelines, but to get direction on the most impactful design parameters so that we can draft initial content.

#### **Discussion** (1/2)

# Do you have any questions about the process so far?



#### The Many Roles of Streets





#### How do we design for this?





# What Is the Role of Street Design Standards?

- •Clear direction on **how** to design streets, specific to Sacramento
- •Typically, detailed and regulatory/enforceable
- •Includes standard detail drawings, typically with a companion document describing their appropriate application.


# What to Expect: Standard Details



# What to Expect: Supporting Text

#### Streets & Transportation

#### 8.7.3.5 HORIZONTAL AND VERTICAL CLEARANCES

Table 8-14 outlines the required clearances applicable to the roadway:

#### Table 8-14: Horizontal and Vertical Clearances

Clearance Type	Required Clearance
Horizontal	
Street appurtenances (poles, cabinets,	Preferred Minimum = 0.55m
furniture, etc.) clearance to curb face	Absolute Minimum = 0.40m
Street light / trolley pole center to curb	Standard = 0.76m
face	
Vertical	

Roadway to bottom of structure Minimum - 5.5m Roadway to communications and guy Minimum - 5.0m

wires

Roadway to electrical conductors up to Minimum = 5.5m

#### 90kV Notes:

 When vertical clearance requirements cannot be met, low clearance signs W-18 and W-19 are to be installed.

#### 8.7.3.6 SIGHT LINES AND DISTANCES

Sight lines and distances shall meet the requirements of the TAC Geometric Design Guide for Canadian Roads.

#### 8.7.4 CURB AND GUTTERS

Curbs should be according to the City of Vancouver Standard Detail Drawings C4.1 to C6.3. Table 8-15 provides the typical curbs used in the City:

#### Table 8-15: Curb Types

Curb Type	Use
Concrete Curb Type A	Wide barrier curb and gutter for collector and arterial stree
Concrete Curb Type B	Medium barrier curb and gutter for local streets and lanes
Concrete Curb Type C	Medium rollover curb and gutter for mountable applications
Concrete Curb Type D	Thick rollover curb and gutter for mountable applications
Concrete Curb Type E	Bicycle / pedestrian mountable separation curb and gutter for
	separating bicycle lanes and sidewalks
Concrete Curb Type F	Barrier curb with narrow gutter for adjacent to bicycle lanes





## Project Outcomes

### **Updated DPM Section 15**

 New / updated design details aligned w/ City policy

Improved consistency and transparency



# Sacramento's Current Street Design Ecosystem



Time check: 10:40 am

### National and State Practice







Seventh Edition

Guide for the Development of **Bicycle Facilities** 

2012 • Fourth Edition



**FHWA** 



Caltrans

#### Caltrans

**AASHTO** (soon to be updated)

# Local Guidelines and Standards

- Speed Lump Program Guidelines (2014)
- Utilities Development Standards: Transportation Standard Drawings (2020)
- Sample Standard & Triple-4 Crosswalk Designs (2008)
- Traffic Calming Guidelines (2002)
- Pedestrian-friendly streets standard (2004)
- Complete Streets Policy (2019)
- Pedestrian Crossing Guidelines (2021)
- Standard Specifications for Public Construction, Landscape Planting & Irrigation System Chapters (2020)
- Central Core Public Realm Guidelines, 2nd Edition (2018)
- Draft Urban Forest Plan (SUFP)







# Section 15: Street Design Standards

#### A section of the City's Design and Procedures Manual



Design and Procedures Manual

Section 15 - Street Design Standards

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APPENDIX – TYPICAL DRAWINGS AND GUIDELINES.....

Goals & application	Traffic analysis
Structural sections	Landscaping
Drainage	Parking provision
Roadway geometry	Drafting
Lane widths	Signage and striping
Roadway classification	

..27

# Section 15



### **Discussion** (1/3)

Do you have any general questions so far about how design standards work?



# **Restroom Break**

### Return at 11:00 am



# State of Practice Snapshot



# **Design Principles**



# Building Off Sound Design Principles (1/6)

- Ensure **accessibility**
- Minimize **risk severity**
- Maximize visibility & legibility
- Increase predictability
- Minimize **exposure** to conflicts
- Support efficient emergency services and City operations





# Building Off Sound Design Principles (2/6)

- Ensure **accessibility**
- Minimize **risk severity**
- Maximize visibility & legibility
- Increase predictability
- Minimize **exposure** to conflicts
- Support efficient emergency services and City operations





# Building Off Sound Design Principles (3/6)

- Ensure **accessibility**
- Minimize **risk severity**
- Maximize visibility & legibility
- Increase predictability
- Minimize **exposure** to conflicts
- Support efficient emergency services and City operations





# Building Off Sound Design Principles (4/6)

- Ensure **accessibility**
- Minimize **risk severity**
- Maximize visibility & legibility
- Increase predictability
- Minimize **exposure** to conflicts
- Support efficient emergency services and City operations





# Building Off Sound Design Principles (5/6)

- Ensure **accessibility**
- Minimize **risk severity**
- Maximize visibility & legibility
- Increase predictability
- Minimize **exposure** to conflicts
- Support efficient emergency services and City operations

conflict area





# Building Off Sound Design Principles (6/6)

- Ensure **accessibility**
- Minimize **risk severity**
- Maximize visibility & legibility
- Increase predictability
- Minimize **exposure** to conflicts
- Support efficient **emergency** services and City operations





# **Reducing Speeds**

...helps **reduce** serious and fatal crashes! ...helps **prevent** crashes from happening!



# Reducing Speeds: Speed Lumps





# Reducing Speeds: Chicanes





# Reducing Speeds: Mini Roundabouts



# Arterial Speed Management









# Reducing (Turn) Speeds: Mountable Truck Aprons & Turn Wedges





# Reducing (Turn) Speeds: Hardened Centerlines



# Reducing Speeds: Raised Side Street and Driveway Crossings

approach and departure ramps 5-8% Draft AASHTO Bike Guide Seattle, WA



### **Minimizing Exposure**

...helps prevent crashes from happening!



# Minimizing Exposure: Crossing Islands



### Minimizing Exposure: Traffic Diverters e.g. Center Median Islands at Intersections



### Minimizing Exposure: Traffic Diverters e.g. Diagonal Diverters



# Minimizing Exposure: Protected Intersections





### Providing Comfortable, Separated Space for Walking & Cycling

...helps increase the number of people walking and biking!



# Comfortable Walking & Cycling Space: Enhanced Pedestrian Realm



# Comfortable Walking & Cycling Space: Urban Tree Canopy



# Comfortable Walking & Cycling Space: Separated Bikeways (Class IV)

Sacramento, CA

Cambridge, MA
### **Design Fundamentals**



#### Design Fundamentals e.g. Travel Lane Widths



### **Clarification Questions?**



## Feedback Activity #1: Ranking Design Topics

#### Wrap-up: 11:40am



## Vote once at each station to let us know how you feel about each design treatment.



### **Discussion of feedback received**



## Feedback Activity #2: How Do Our Streets Reflect City Policies?

#### Wrap-up: 11:55am



### City Policy / Goals

- Prioritize people walking, cycling, and taking transit (General Plan Modal Hierarchy)
- Eliminate traffic fatalities and serious injuries (Vision Zero Policy)
- Address climate change/ protect the environment
  (Climate Action & Adaptation Plan)



# How well do you think **Del Paso Road** reflects the City's policy / goals?



Del Paso Rd @ NP3 Elementary and High Schools

# How well do you think **Grand Ave** reflects the City's policy / goals?

Grant Union

**High School** 



Google

### How well do you think Franklin Boulevard reflects the City's policy / goals?

Google

5383

Franklin Center

Franklin Blvd at Fruitridge Rd

# How well do you think **Freeport Boulevard** reflects the City's policy / goals?

**reend** 

Google



### How well do you think J Street reflects the City's policy / goals?



### How well do you think 23<sup>rd</sup> Street reflects the City's policy / goals?

## Next Steps



### Community Roundtable Meeting Schedule

- #1: Community Roundtable Kickoff [Today]
- #2: Building Suite of Engineering Tools (1/2) [Early Fall, 2024] (based on best practices)
- #3: Building Suite of Engineering Tools (2/2) [Late Fall, 2024] (based on best practices)
- #4: Discuss Public Draft [Early Fall, 2025]



The purpose of these workshops is not to cover all topics that will be in the guidelines, but to get direction on the most impactful design parameters so that we can draft initial content.

## Project Contacts:

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