# LA BALLONA PROJECT OVERVIEW



# PROJECT GOAL A SAFE COMMUNITY TO BIKE & WALK TO AND FROM SCHOOL

Create a network of low-speed corridors and safe crossings around and leading to La Ballona Elementary School.

### PROJECT STRATEGIES

#### + TRAFFIC CALMING

Curb extensions and narrowed traffic lanes slow vehicular speeds around the school.

#### + SAFE CROSSINGS

High-visibility crosswalks, curb extensions, and curb ramps shorten crossing distances and improve access.

#### + SEPARATED BIKEWAY

A direct link to connect the Culver Blvd bike path to the school.

#### + COMPLETE STREETS

Neighborhood streets that are designed for everyone to improve overall safety, mobility and accessibility.





Walk to School Day, 2017

#### **SCHEDULE CURRENT PHASE** ASSER! ----POST-GRANT AWARDED CONCEPT DESIGN COMMUNITY FINAL DESIGN CONSTRUCTION **GRANT APP** CONSTRUCTION OUTREACH OUTREACH + APPROVALS EVALUATION **SPRING-SUMMER SUMMER SPRING-FALL WINTER WINTER-SPRING SUMMER-FALL** 2020-2021 2015 2018 2019 2019 2014 2019



## LA BALLONA RESUMEN DEL PROYECTO



### **OBJETIVO DEL PROYECTO UNA COMUNIDAD SEGURA PARA ANDAR** EN BICICLETA Y **CAMINAR HACIA Y DESDE LA ESCUELA**

Crear una red de corredores de baja velocidad y cruces seguros alrededor de la Escuela Primaria de La Ballona.

### ESTRATEGIAS DEL PROYECTO

Extensiones de acera y carriles más angostos disminuyen la velocidad de los autos alrededor de la escuela

#### + CRUCES SEGUROS

Cruces de alta visibilidad, extensiones de acera y rampas ayudan a recortar distancias de cruce y mejorar acceso.

### + CALMAR EL TRÁFICO + CICLOVÍA PROTEGIDA

Una conexión directa entre el sendero ciclista de Culver Blvd y la escuela.

#### + CALLE COMPLETA

Calles vecinales diseñadas para que todos puedan mejorar la seguridad, movilidad y accesibilidad en general.





Día de Caminata a la Escuela, 2017

#### **CALENDARIO FASE ACTUAL** ASSES. --------PARTICIPACIÓN EVALUACIÓN COMUNITARIA PARA PARTICIPACIÓN DISEÑO FINAL + CONSTRUCCIÓN DISEÑO POS-ASISTENCIA APLICAR POR CONSTRUCCIÓN APROBACIÓN CONCEDIDA CONCEPTUAL **COMUNITARIA** ASISTENCIA PRIMAVERA-OTOÑO **VERANO-OTOÑO PRIMAVERA-VERANO VERANO INVIERNO INVIERNO-PRIMAVERA** 2020-2021 2014 2015 2018 2019 2019 2019



## PROJECT SUMMARY

## RESUMEN DEL PROYECTO



LA BALLONA ELEMENTARY SAFE ROUTES TO SCHOOL



#### PROJECT INCLUDES THE FOLLOWING ELEMENTS

+0.32 Miles of Separated Bikeway
Two-way cycle track connects Culver Blvd Bike Path to La Ballona Elementary School along
Elenda St

+ 1 RRFB Crossing at Bentley Ave
New pedestrian crossing at the intersection of Bentley Ave and Washington Pl

+ 1 All-way Stop
New all-way stop at Marietta Ave and Elenda St

### +6 Storm Water Improvements Green infrastructure incorporated into 6 corner bulb-outs

+ 19 Intersection Improvements
Includes 42 bulb-outs, 44 high visibility crosswalks, 77 curb ramps, 3 pedestrian refuge islands, 1 raised crosswalk, 1 RRFB, and 2 traffic signal modifications

#### +28 Pedestrian Scale Luminaires

5 new street lights along the north side of Washington Blvd and 23 new street lights along east and west sides of Elenda Street

#### +51 New Trees

Includes 47 new trees in the area bounded by Tilden Ave and Girard Ave west to east and Venice Blvd and Matteson Ave north to south, 2 new trees at the northwest corner of Bentley Ave and Washington Pl, and 2 new trees at southwest corner of Elenda St and Washington Blvdcrossings. The bikeway is also intended to reduce cut-through traffic through the neighborhood.





#### LA BALLONA ELEMENTARY SCHOOL

ESCUELA PRIMARIA LA BALLONA



**INTERSECTION IMPROVEMENT - FULL INTERSECTION** MEJORAR CRUCES PEATONALES - COMPLETAMENTE



#### SEPARATED BIKEWAY

CICLOVÍA SEPARADA



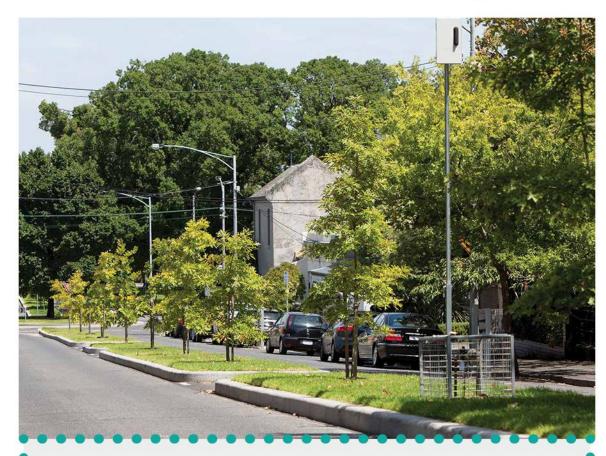
## WHAT IS A COMPLETE STREET?

## ¿QUE ES UNA CALLE COMPLETA?



LA BALLONA ELEMENTARY SAFE ROUTES TO SCHOOL

A complete street improves safety, mobility, and accessibility along a street for everyone. Below are examples of typical Complete Streets 'tools' in a designer's toolbox.



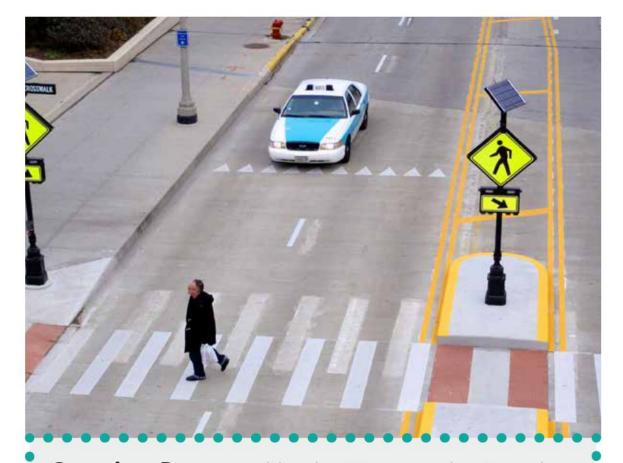
Planted Medians & Street Trees can reduce head-on and turning collisions and provide refuge for pedestrian crossings, all while beautifying the area. Sidewalk plantings can provide shade and a pleasant street experience for people walking, and create a buffer between pedestrians and vehicle traffic.



Curb Extensions & Median Refuge Areas reduce pedestrian crossing distances and improve visibility. Curb Extensions also reduce vehicle speeds by reducing turning radius, which increases the chance of survival for a pedestrian in the event of a collision.



High Visibility Crosswalks include additional paint that can enhance a motorist's awareness of a crosswalk. Near schools, crosswalks are painted yellow for additional visibility. In-roadway lighting can further enhance crosswalk visibility.



Crossing Beacons like the 'Rectangular Rapid Flash Beacon (RRFB)' enhance the visibility of crosswalks marked by just paint. Flashing lights and additional signage alert motorists to the presence of crosswalks and pedestrian traffic. Leading Pedestrian Intervals that give people walking a head start to cross the street are another tool that can increase safety and comfort at intersections.



**Traffic Circles** have been proven to calm vehicle traffic on neighborhood streets, while still allowing for continuous movement of vehicles and people bicycling. Combined with other features, such as directional signs, they can help create a network of "bicycle boulevards" or "neighborhood-friendly streets".



On-Street Separated Bikeways provide full physical separation between bicyclists and motor vehicles, but are part of the roadway network.
On-Street Separated Bikeways are increasingly common across California and provide additional protection beyond bike lanes only marked by



**Bike Lanes** provide a designated space for bicyclists to ride, helping to define where each mode of traffic can travel easily. Some bike lanes, like the one pictured here, can include an additional buffer between bicyclists and moving vehicles. Bike lanes can be installed along a curb or between parked cars and traffic.



Shared Lane Markings ("Sharrows") help remind motorists that bicyclists are allowed to use the full lane, and remind bicyclists to avoid riding too close to parked cars. These markings are primarily recommended on low-speed streets.



Lane Reconfigurations often convert streets with 4 lanes to 2 lanes with a center turn lane, which increases safety for all road users by separating left-turning vehicles from through traffic, reducing dangerous speeding, and providing extra space for pedestrian refuges, curb extensions, planted medians, and bike lanes.



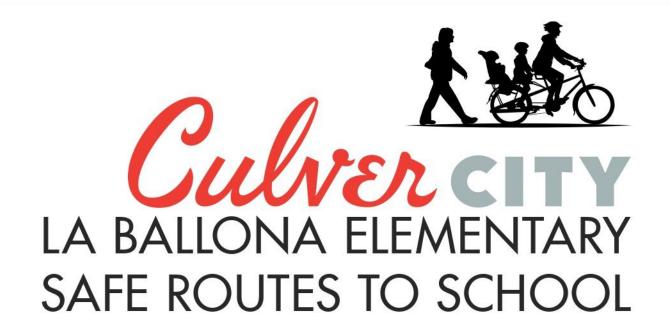
Protected Intersections reduce turning conflicts between drivers and bicyclists by providing clear paths for each user. Protected Intersections are relatively new to the United States, and have been shown to reduce collisions. A similar, less-intensive version includes 'Bike Boxes'.



TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

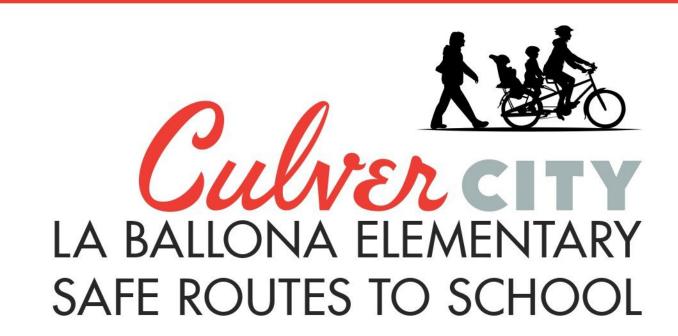


EXISTING INTERSECTION
INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

# MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

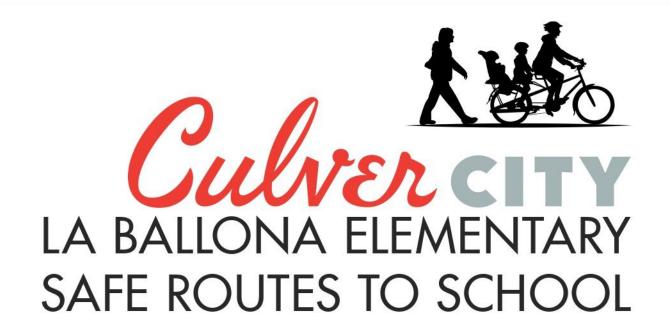


EXISTING INTERSECTION
INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!



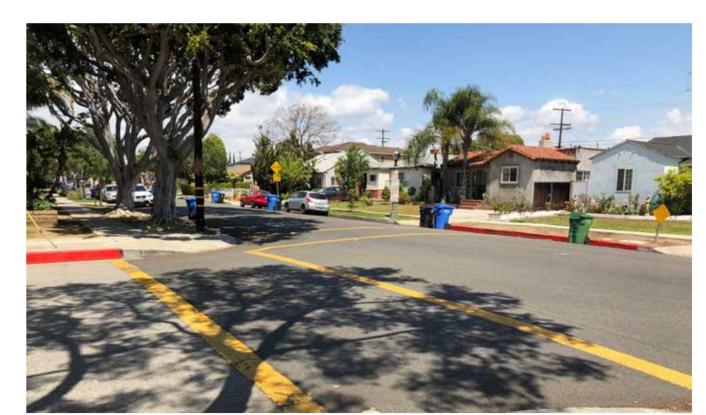


### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

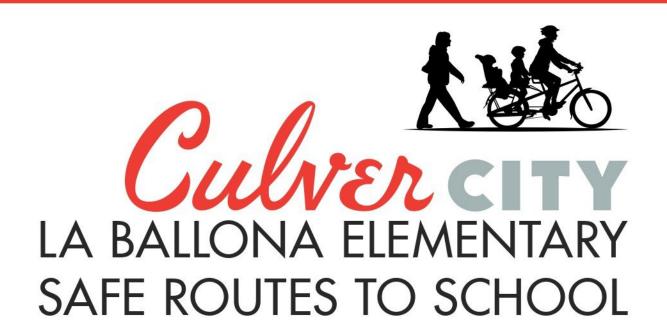


EXISTING INTERSECTION INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

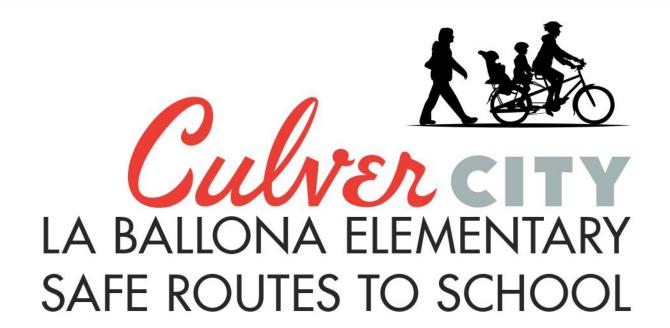


EXISTING INTERSECTION
INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

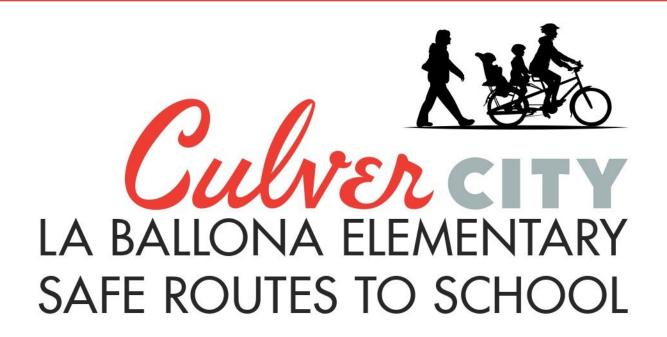


EXISTING INTERSECTION
INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!

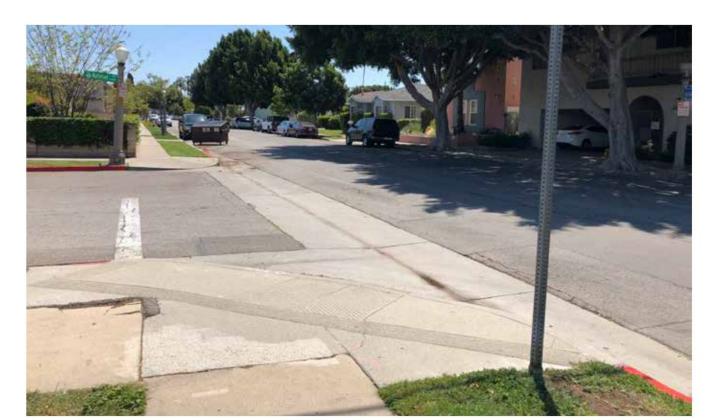




## RENDERING OF PROPOSED CHANGES (ABOVE) MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

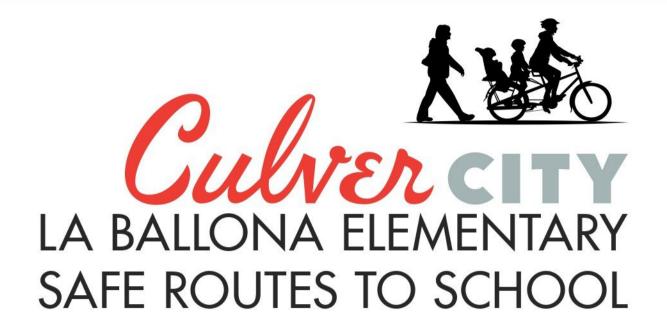


EXISTING INTERSECTION
INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





#### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

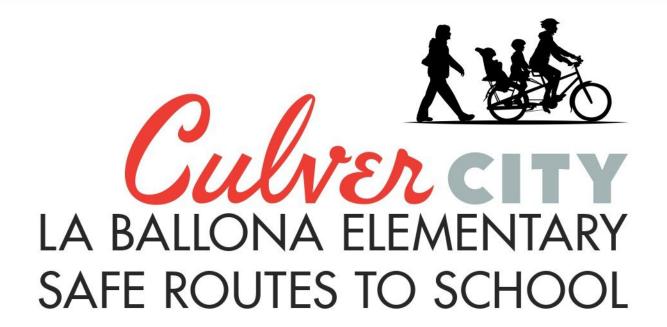


EXISTING INTERSECTION INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





## RENDERING OF PROPOSED CHANGES (ABOVE) MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

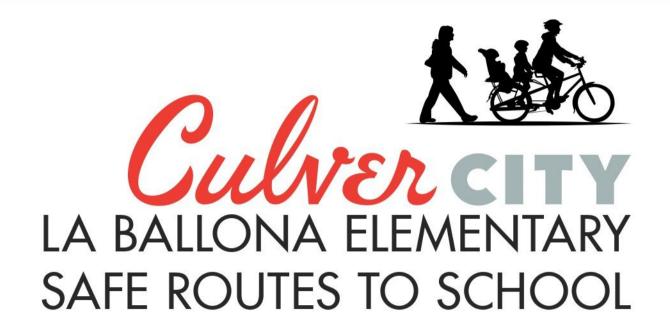


EXISTING INTERSECTION INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





#### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

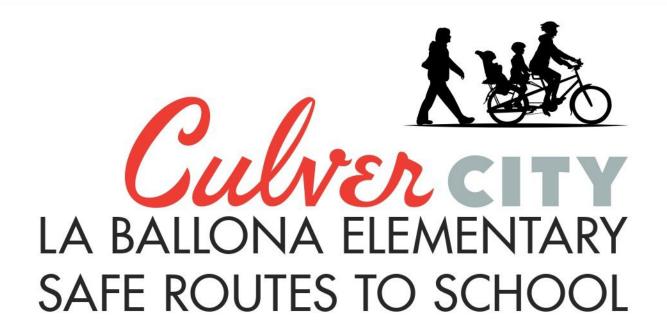


EXISTING INTERSECTION INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

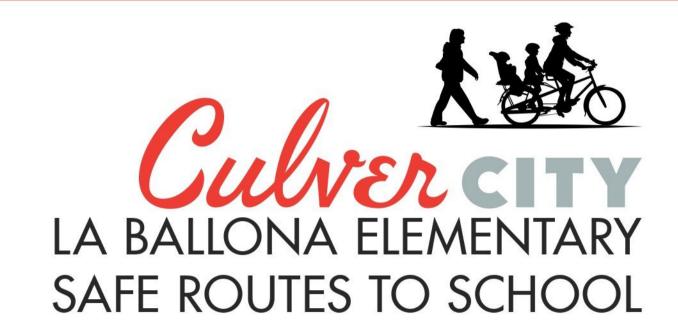


EXISTING INTERSECTION INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

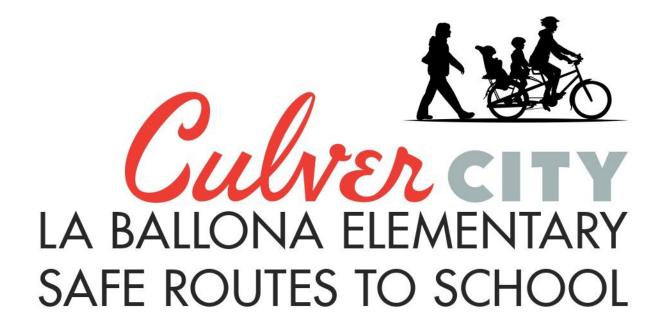


EXISTING INTERSECTION INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

# MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





## RENDERING OF PROPOSED CHANGES (ABOVE) MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

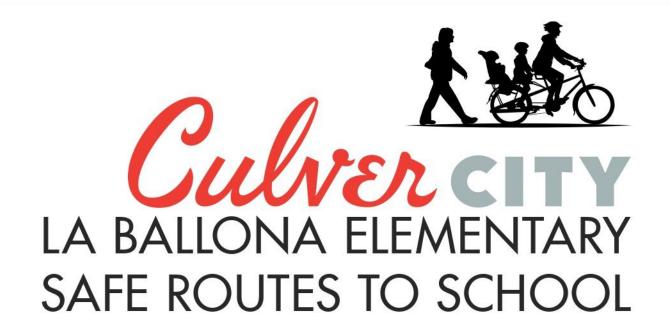


EXISTING INTERSECTION
INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

# MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





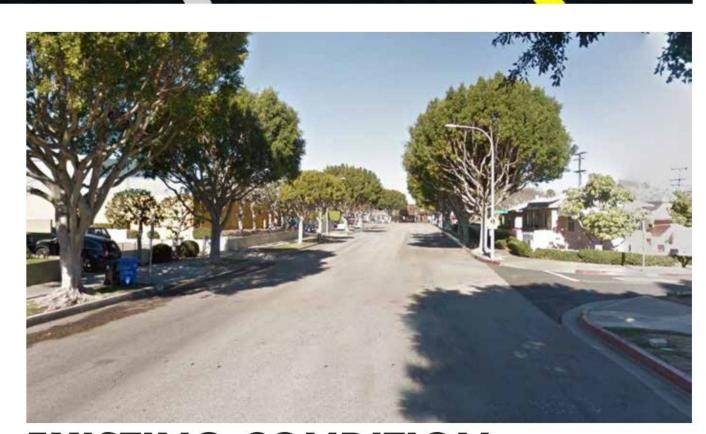
#### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

BUFFERED ON-STREET BIKEWAY WILL PROVIDE SAFE, SEPARATED BICYCLE ACCESS TO AND FROM CULVER BLVD TO LA BALLONA ELEMENTARY SCHOOL

INTERSECTION PAVEMENT MARKINGS HELP MAKE BICYCLE CROSSINGS MORE VISIBLE

PARKING ON THE WEST SIDE OF ELENDA STREET WILL NOT BE ALTERED, PARKING ON THE EAST SIDE WILL INCREASE BY A FEW SPACES



EXISTING CONDITION
SITIO ACTUAL

TELL US WHAT YOU THINK!

# MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!



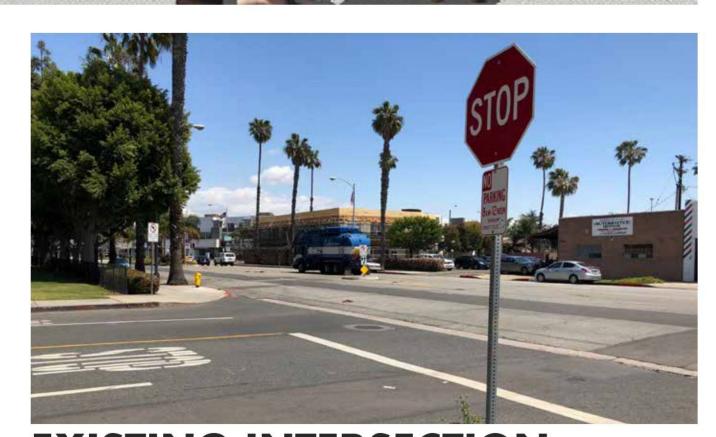


### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

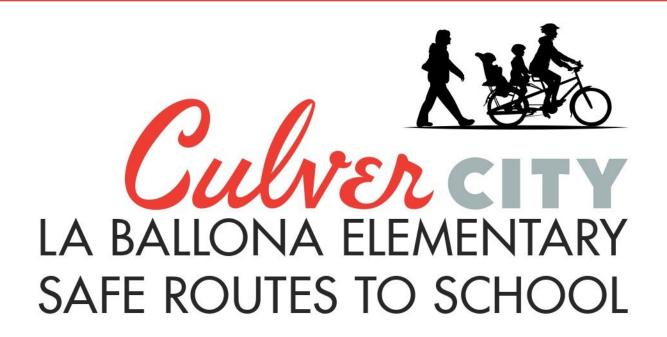


EXISTING INTERSECTION
INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

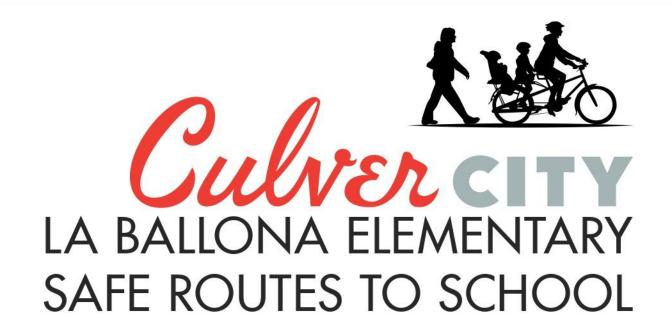


EXISTING INTERSECTION
INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

## MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!

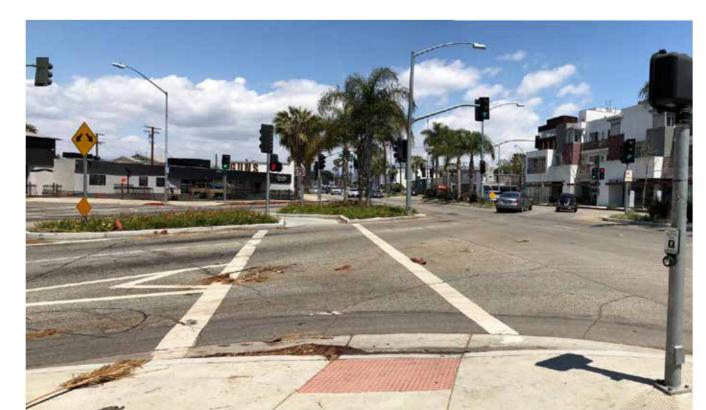




## RENDERING OF PROPOSED CHANGES (ABOVE) MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

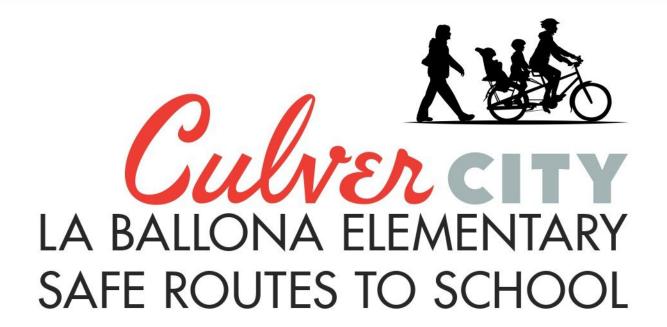


EXISTING INTERSECTION
INTERSECCIÓN ACTUAL

TELL US WHAT YOU THINK!

# MEJORAMIENTOS PROPUESTOS DE SEGURIDAD ALREDEDOR DE LA ESCUELA PRIMARIA LA BALLONA

IDÍGANOS QUÉ LE PARECEN!





### RENDERING OF PROPOSED CHANGES (ABOVE)

MEJORAMIENTOS PROPUESTOS (ARRIBA):

CURB EXTENSIONS MAKE A SHORTER DISTANCE TO CROSS A STREET

HIGH VISIBILITY CROSSWALKS HELP MAKE PEDESTRIANS MORE VISIBLE

FLASHING PEDESTRIAN SIGNAL INCREASES DRIVER AWARENESS

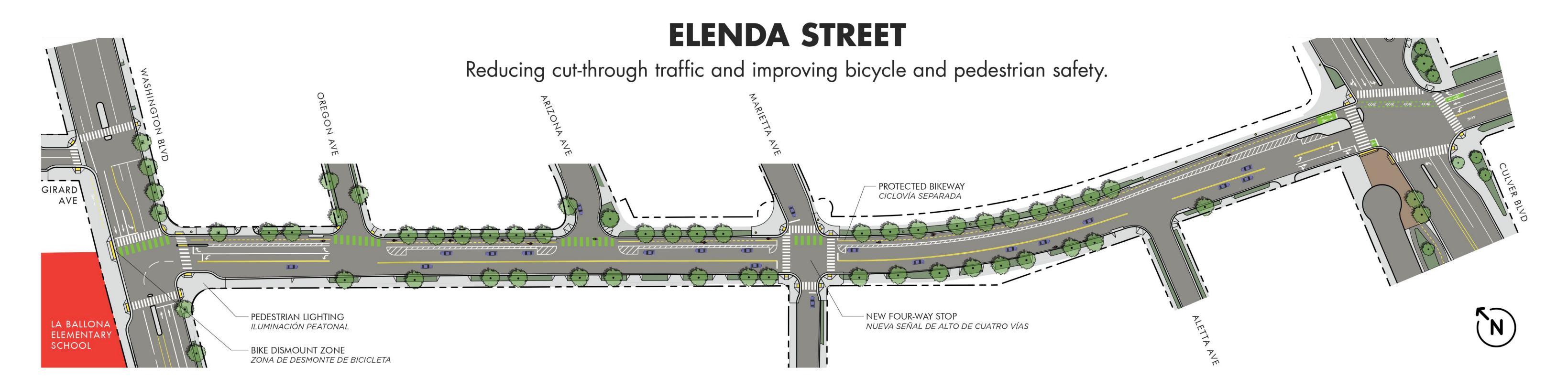


EXISTING INTERSECTION
INTERSECCIÓN ACTUAL

## ELENDA SEPARATED BIKEWAY

## CICLOVÍA SEPARADA DE ELENDA





#### PROJECT OVERVIEW

The separated bikeway along Elenda will provide safe, separated bicycle access from Culver Blvd to La Ballona Elementary School. The alignment on the east side of Elenda was developed to minimize parking impacts and the number of crossings. The bikeway is also intended to reduce cut-through traffic through the neighborhood.

PARKING





# SELECTION OF APPROPRIATE LANE WIDTHS



#### LA BALLONA ELEMENTARY SAFE ROUTES TO SCHOOL

### According to the Institute of Transportation Engineers (ITE) Traffic Engineering Handbook:

+ On urban streets 10 feet should be the default width for general purpose lanes at speeds of 45 mph or less (ITE, 2016).

According to the **AASHTO Green Book**, for rural and urban arterials, lane widths may vary from 10 to 12 feet:

+ 12-foot lanes should be used where practical on higher speed roadways. However, under interrupted-flow (roads with signals) conditions operating at low speeds (45 mph or less) narrower lane widths are normally quite adequate and have some advantages.

## The National Cooperative Highway Research Program 330 Effective Utilization of Street Width on Urban Arterials study found:

- + Narrower lane widths (less than 11 feet) can be used effectively in urban arterial street improvement projects where the additional space can be used to relieve traffic congestion or address specific accident patterns.
- + Where streets cannot be widened, highway agencies should give strong consideration to the use of 10-ft lanes where they are necessary as part of a geometric improvement to improve traffic operations or alleviate specific accident patterns.

#### National Association of City Transportation Officials (NACTO) states:

+ Lane widths of 10 feet are appropriate in urban areas and have a positive impact on a street's safety without impacting traffic operations.

#### The Midwest Research Center reported:

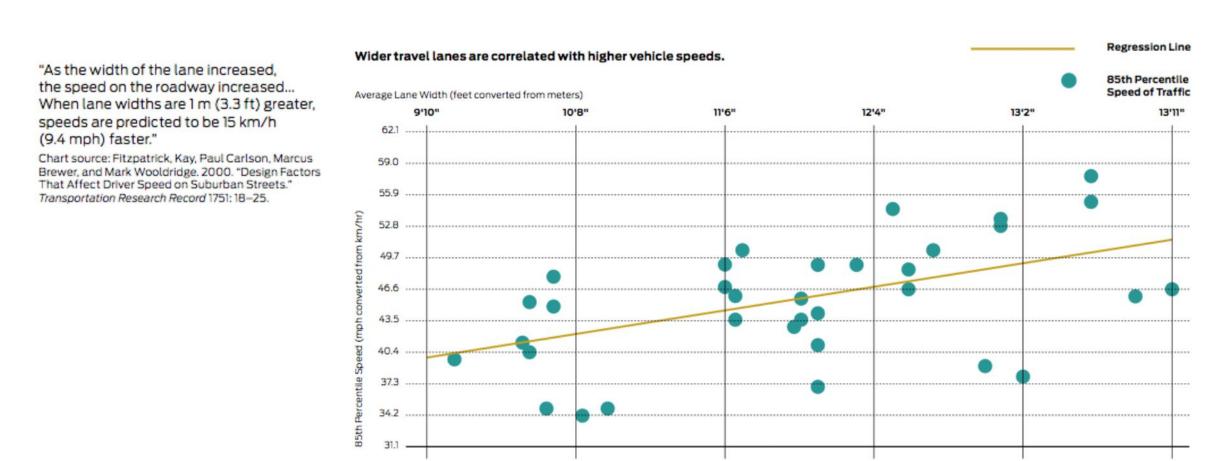
+ A safety evaluation of lane widths for arterial roadway segments found no indication, except in limited cases, that the use of narrower lanes increases crash frequencies. The lane width effects in the analyses conducted were generally either not statistically significant or indicated that narrower lanes were associated with lower rather than higher crash frequencies. There were limited exceptions to this general finding.

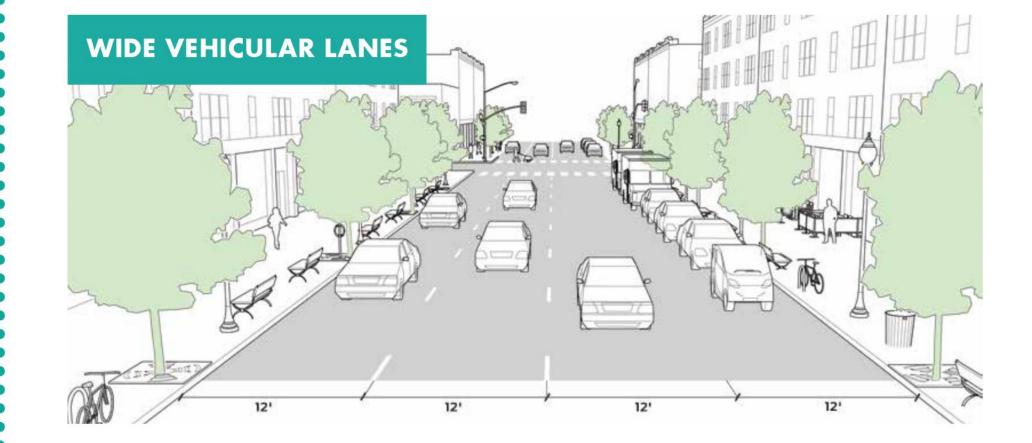
#### Parking Lane Width:

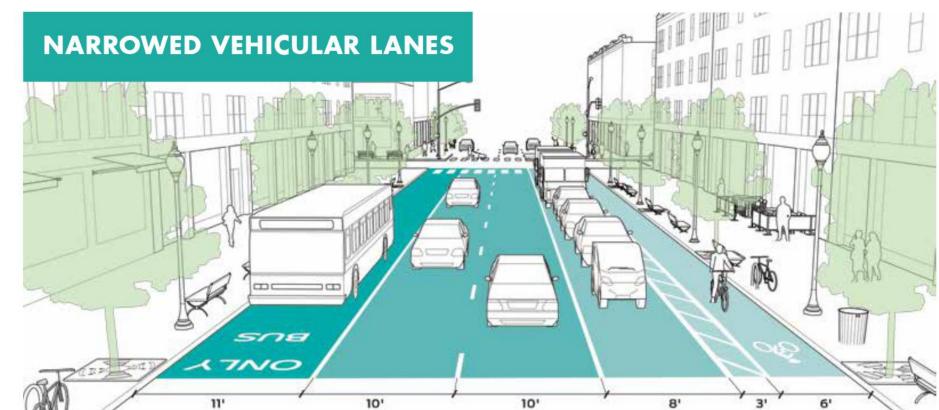
+ Preferred parking lane width on residential streets is 7ft (ITE & CNU, 2010).

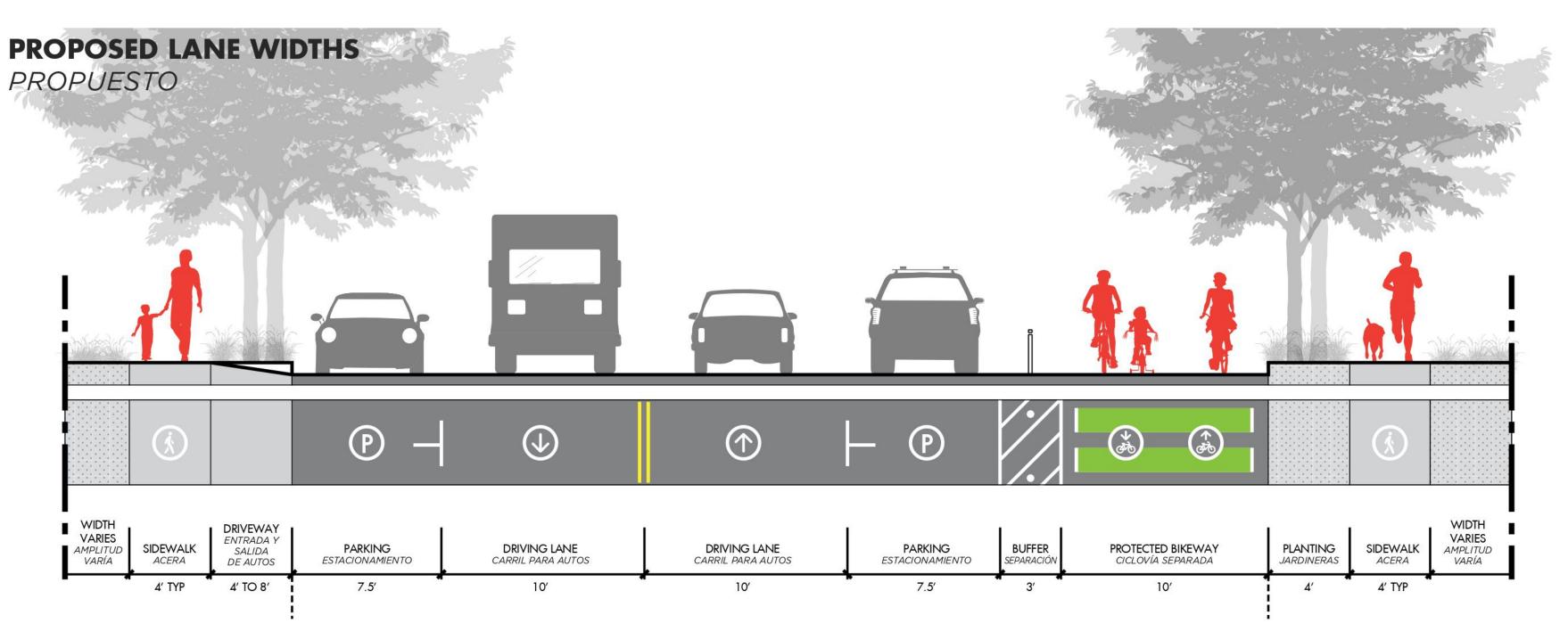
#### Bicycle Lane Width:

- + The desirable two-way cycle track width is 12 feet. Minimum width in constrained locations is 8 feet (NACTO, 2014).
- + When placed adjacent to a curb or other vertical surface, a bicycle lane width of at least 6 feet in width is desirable (NACTO, 2014).
- + When protected by a parking lane, 3 feet is the desired width for parking buffer to allow passenger loading and to prevent dooring collisions (NACTO, 2014).











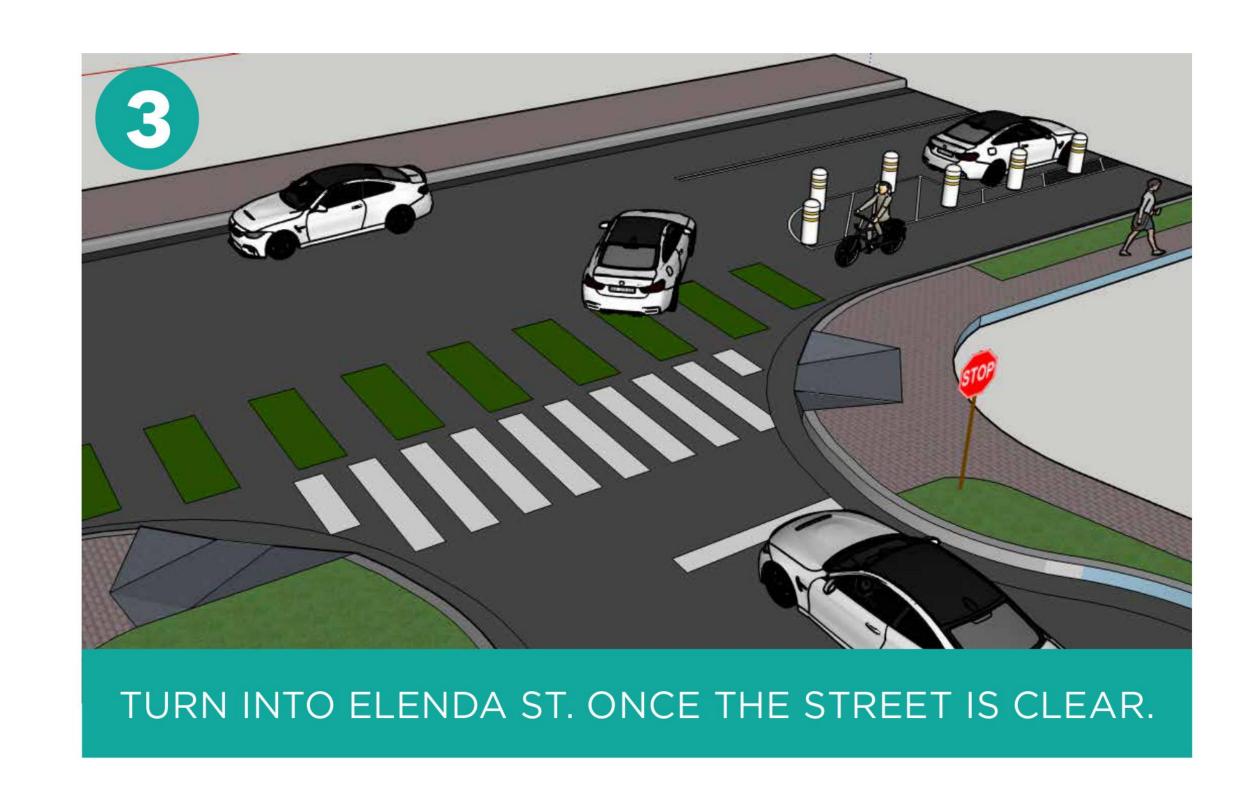
# DRIVING ETIQUETTE AT BIKE LANES

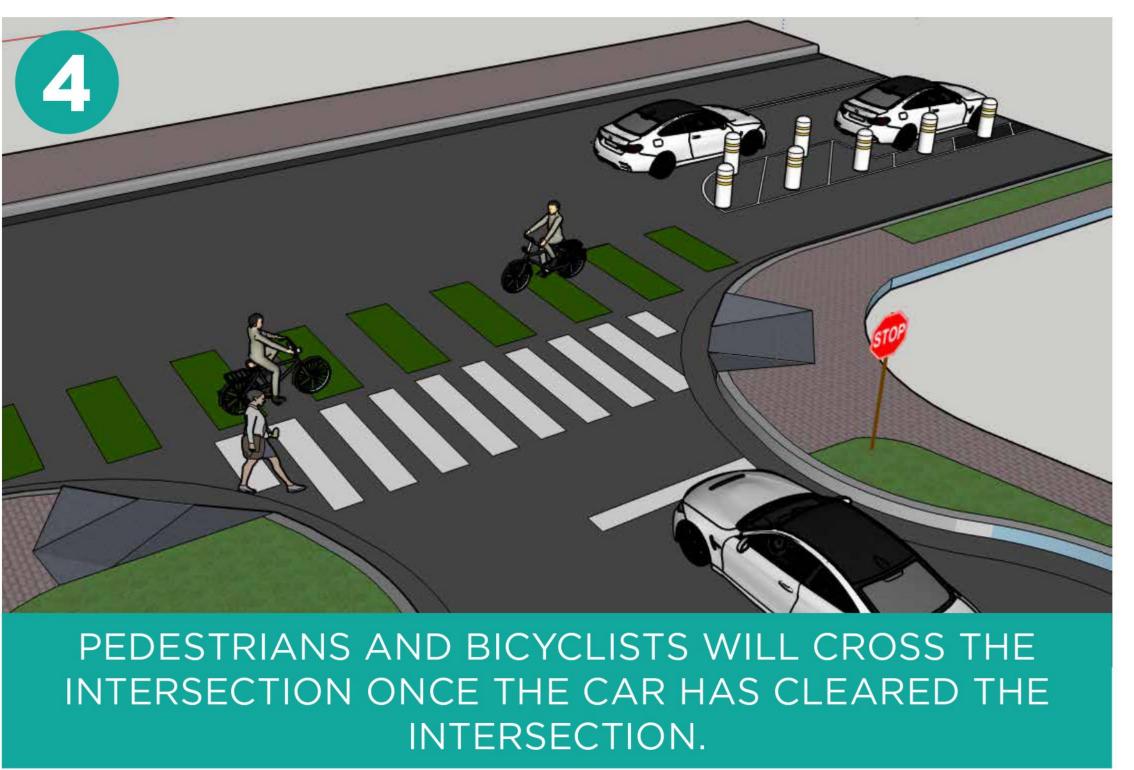


LA BALLONA ELEMENTARY SAFE ROUTES TO SCHOOL











## INTERSECTION SIGHT DISTANCE



#### LA BALLONA ELEMENTARY SAFE ROUTES TO SCHOOL



Existing condition of parking and parkway landscaping on east side of Elenda St between Oregon Ave and Arizona Ave conflicts with clear sight triangles for vehicles turning left or right onto Elenda St.



Existing condition on east side of Elenda St between Oregon Ave and Washington Blvd does not conflict with clear sight triangle. Parking along that segment of Elenda St is prohibited and parkway landscaping was outside the clear sight triangle.



Existing condition of parking and parkway landscaping on east side of Elenda St between Marietta Ave and Arizona Ave interferes with the clear sight triangles for vehicles turning right or left onto Elenda St.



Existing condition of parking and parkway landscaping between Arizona Ave and Oregon Ave impacts the clear sight triangles for vehicles turning right or left onto Elenda St



Existing condition of parkway landscaping and curvature of Elenda St between Marietta Ave and Culver Blvd interferes with the clear sight triangles for vehicles turning right or left onto Elenda St.



Existing condition of parking and parkway landscaping on east side of Elenda St between Marietta Ave and Arizona Ave interferes with the clear sight triangles for vehicles turning right or left onto Elenda St.

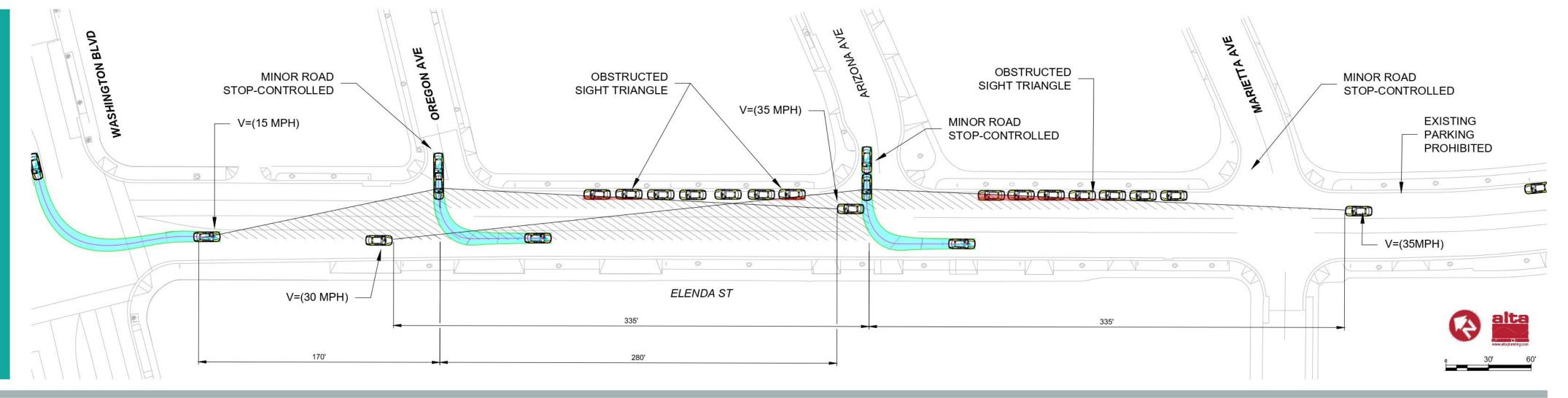
## Federal Highway Administration (FHWA) Separated Bike Lane Planning and Design Guide states:

- Parking should be prohibited at least 20 ft from the edge of a driveway, dependent on vehicle speeds and volumes. Paint alone may not be enough to keep vehicles from parking in prohibited spaces without frequent enforcement efforts. Additional elements such as delineator posts, parking stops, or concrete curb extensions can be included to ensure that this area remains clear.
- + Landscaping and other street-side elements that obscure sight distance should not be included within 15 ft of a driveway edge.

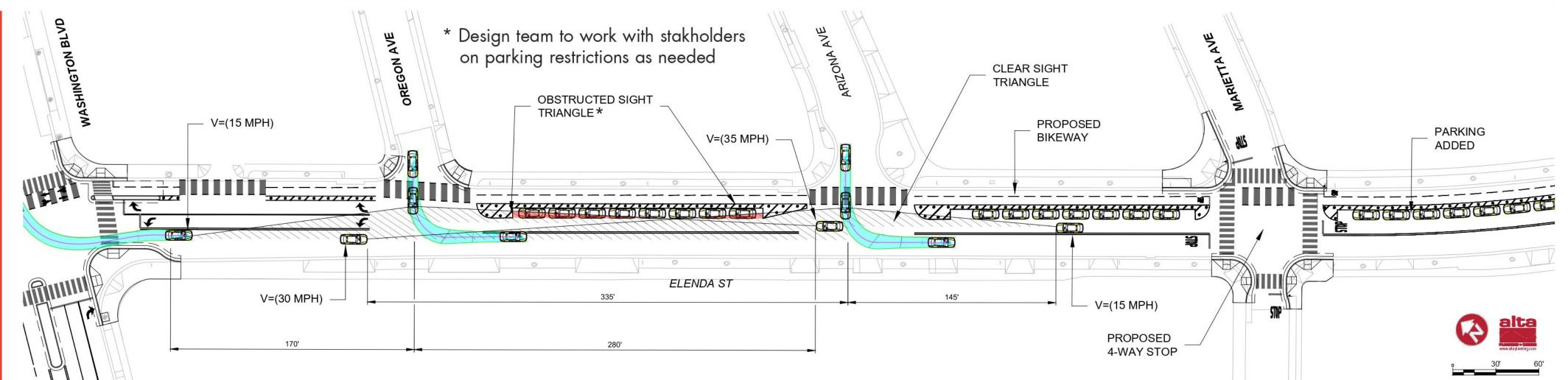
#### NACTO Bikeway Design Guide (2014) states:

- + Driveways and minor street crossings are a unique challenge to cycle track design. A review of existing facilities and design practice has shown that the following guidance may improve safety at crossings of driveways and minor intersections:
- + If the cycle track is parking protected, parking should be prohibited near the intersection to improve visibility. The desirable no-parking area is 30 feet from each side of the crossing.

## EXISTING CONDITIONS



## PROPOSED CONDITIONS





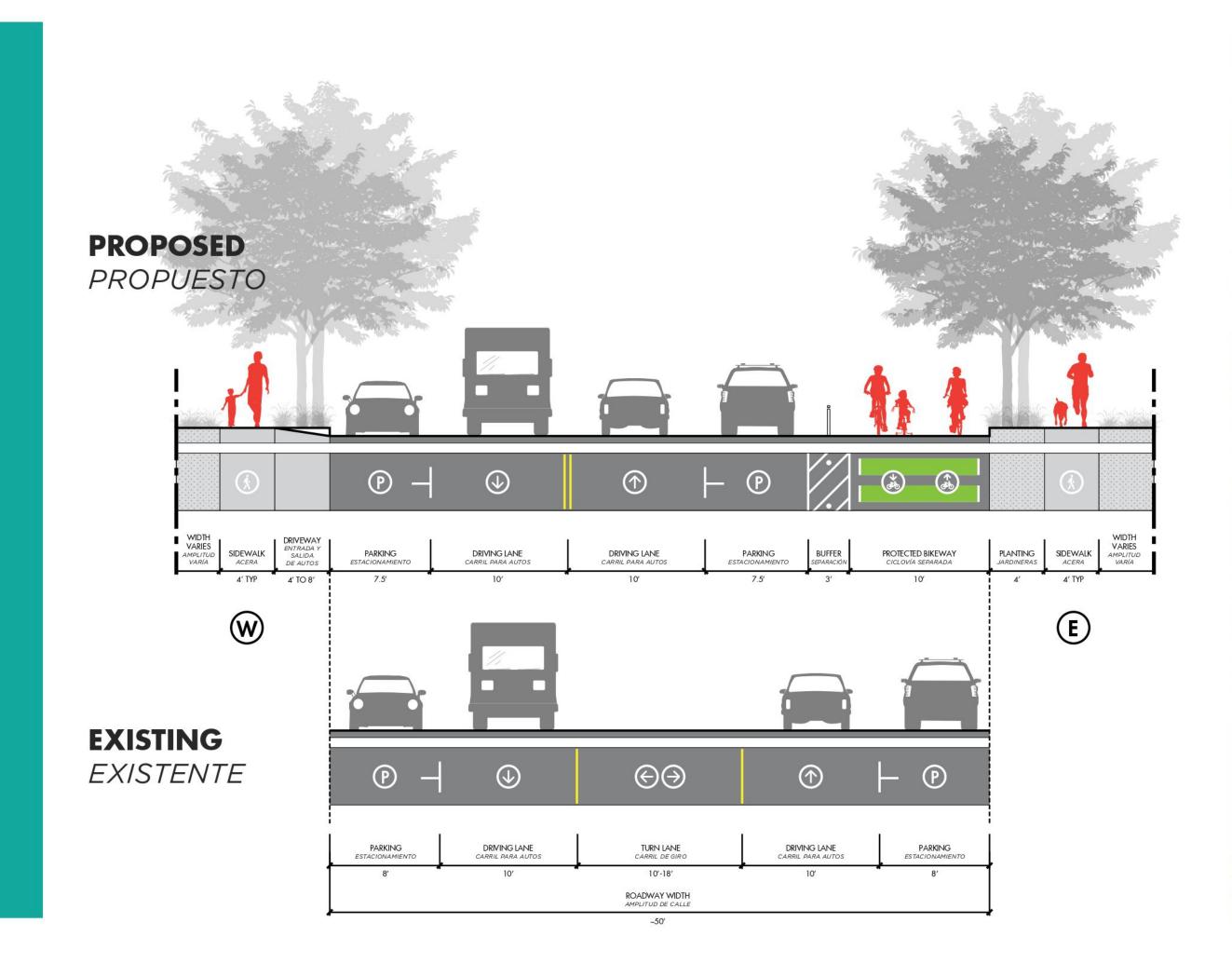
## ELENDA SEPARATED BIKEWAY

## CICLOVÍA SEPARADA DE ELENDA



LA BALLONA ELEMENTARY SAFE ROUTES TO SCHOOL

LIGNMENT





## LIGHTING ELEMENTS INCLUDE THE FOLLOWING:

ELEMENTOS DE ILUMINACIÓN INCLUYE LOS SIGUIENTES:





Oden Luminaire
Oden Luz de calle



Lighting Decorative Base

Luz base decorativa



Oden Street Temperature Chart
Oden tabla de temperatura de la calle



### CULVER AT ELENDA TRUCK ACCOMMODATION



#### TURNING EXHIBITS FOR DESIGN VEHICLE

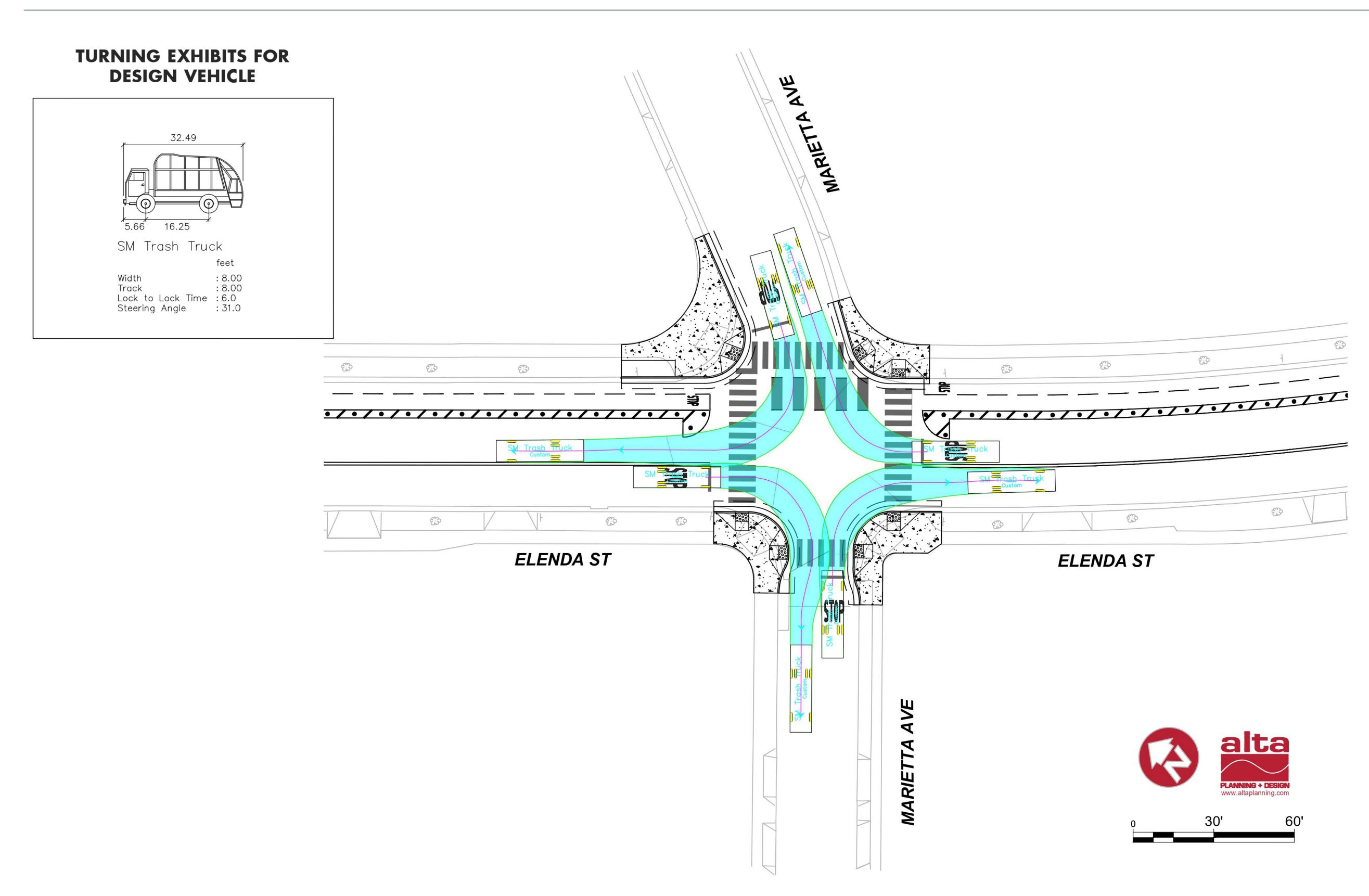






# MARIETTA AT ELENDA TRUCK ACCOMMODATION



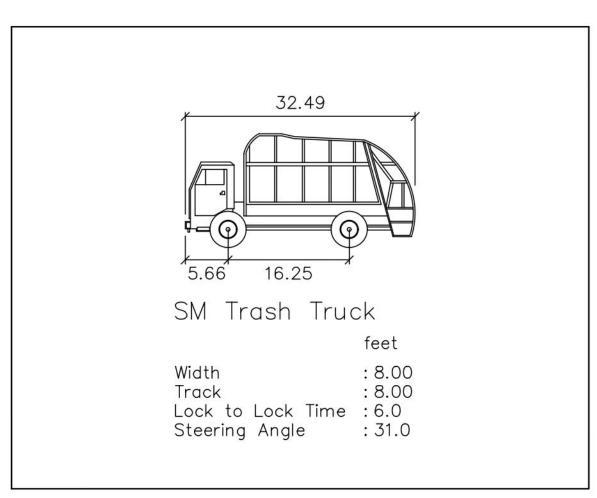


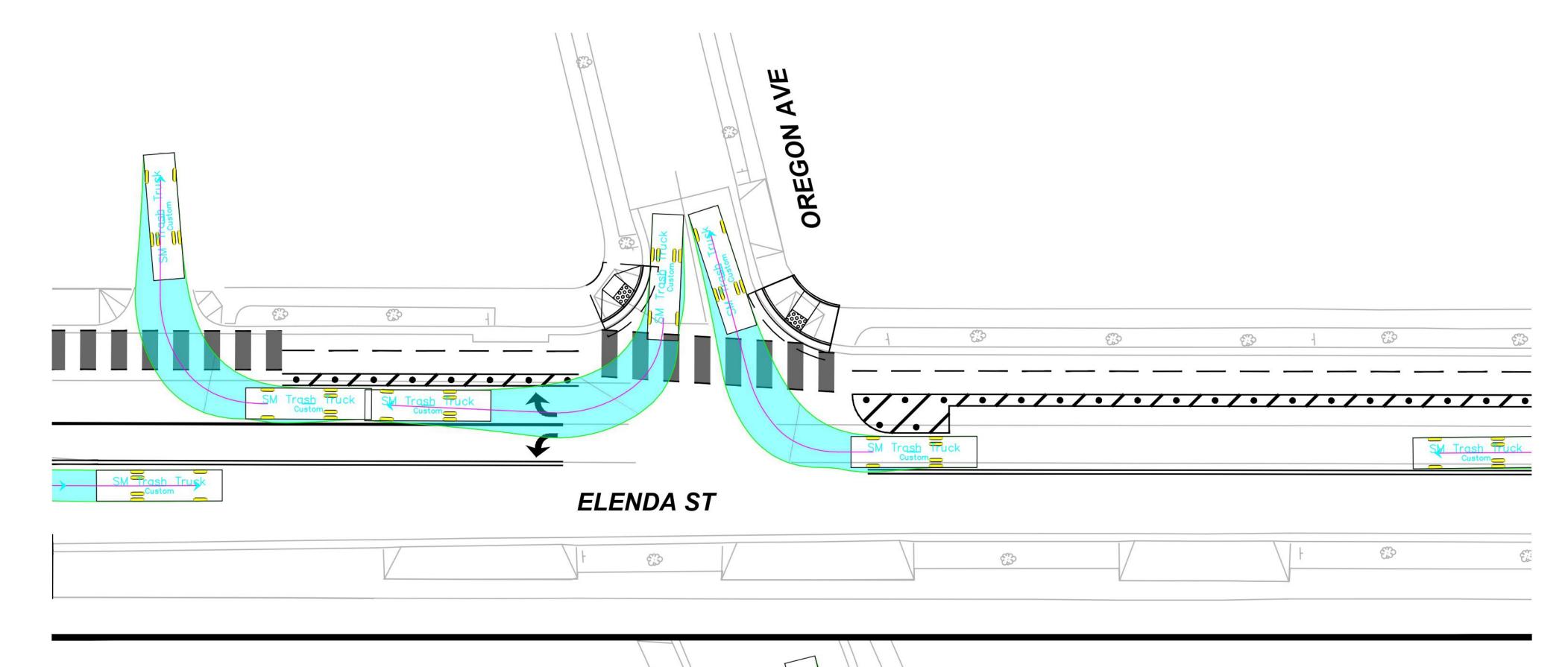


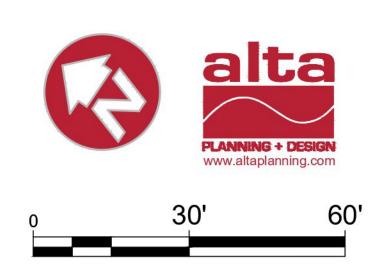
# ELENDA AT OREGON / ARIZONA TRUCK ACCOMMODATION

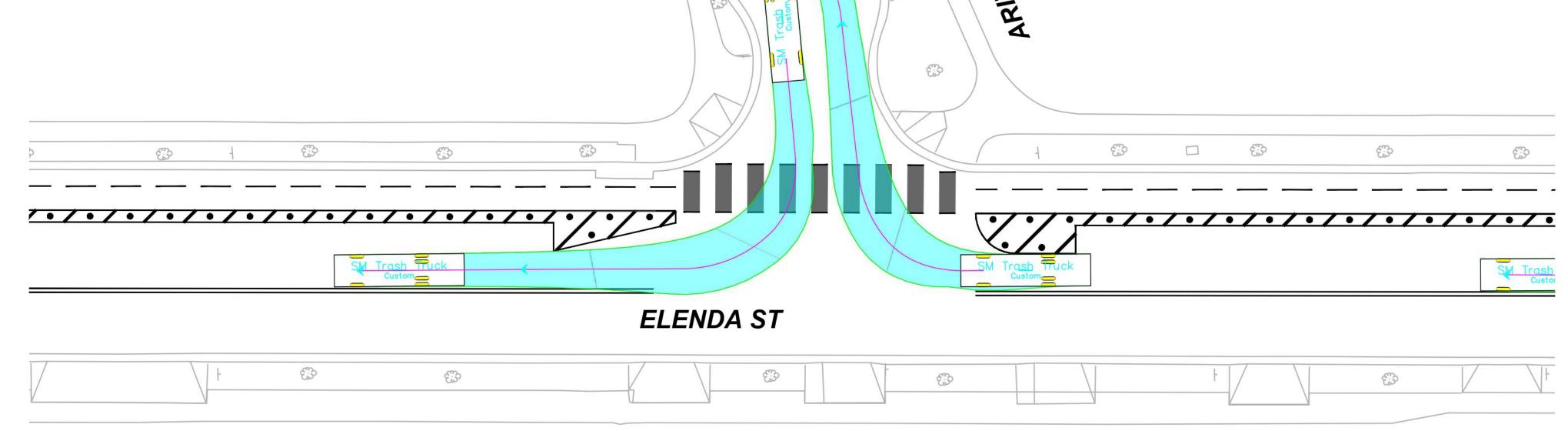


### TURNING EXHIBITS FOR DESIGN VEHICLE







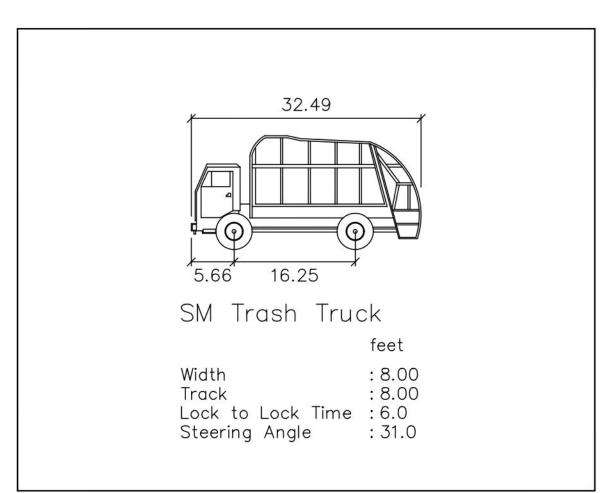


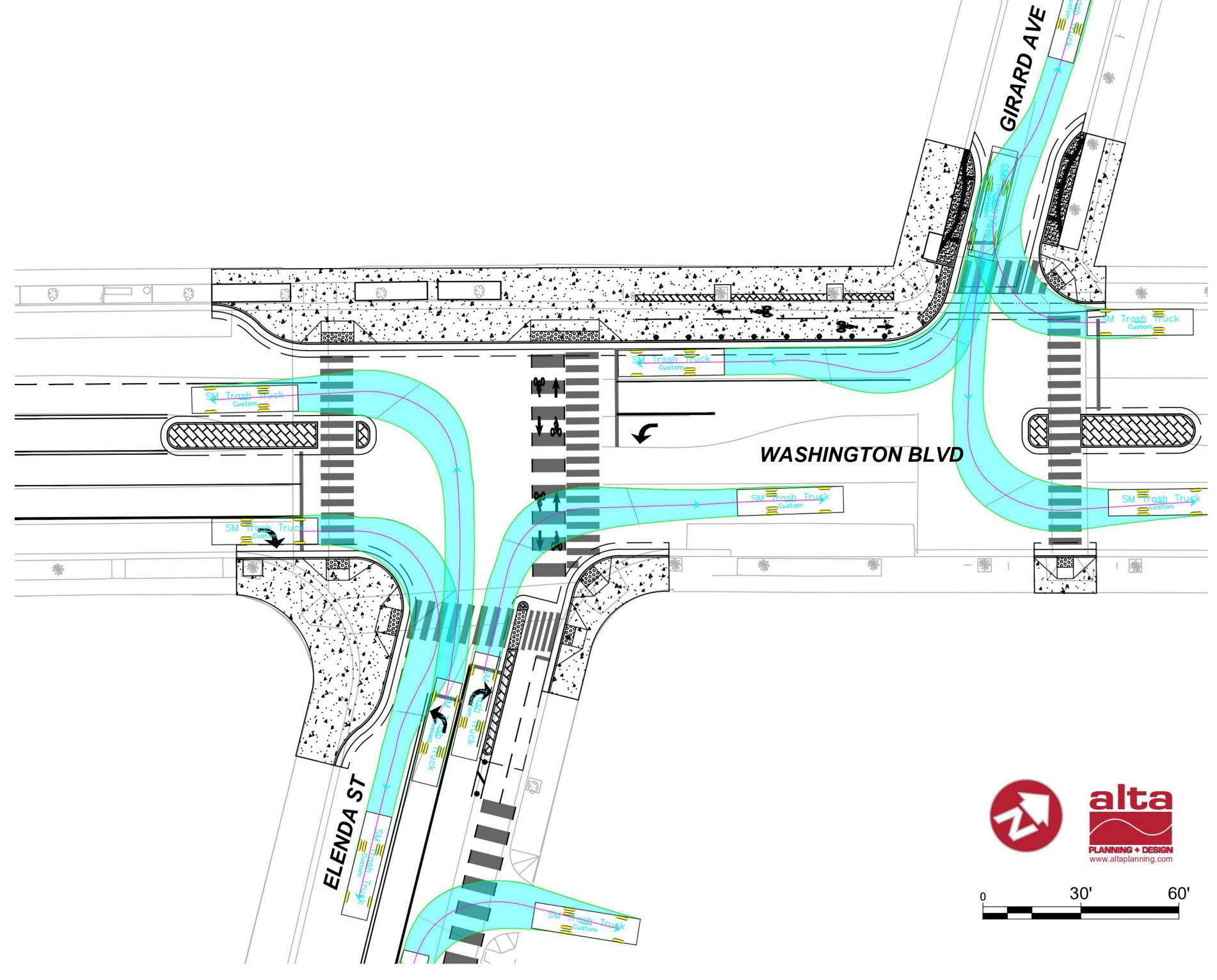


# WASHINGTON AT ELENDA TRUCK ACCOMMODATION



### TURNING EXHIBITS FOR DESIGN VEHICLE







## RESULTADOS DE ENCUESTAS



## EXPERIENCE ELENDA DEMONSTRATION FEEDBACK

- + Weeklong Demonstration of Protect Bicycle Lanes on Elenda Street (September 15-22)
- + 700 Attendees (75% Culver City Residents)
- + Two Separate Surveys Conducted by SCAG GoHuman Team and Culver City, which included In-Person / Online Survey, Hotline Number and Email Correspondence

#### **CULVER CITY SURVEY**

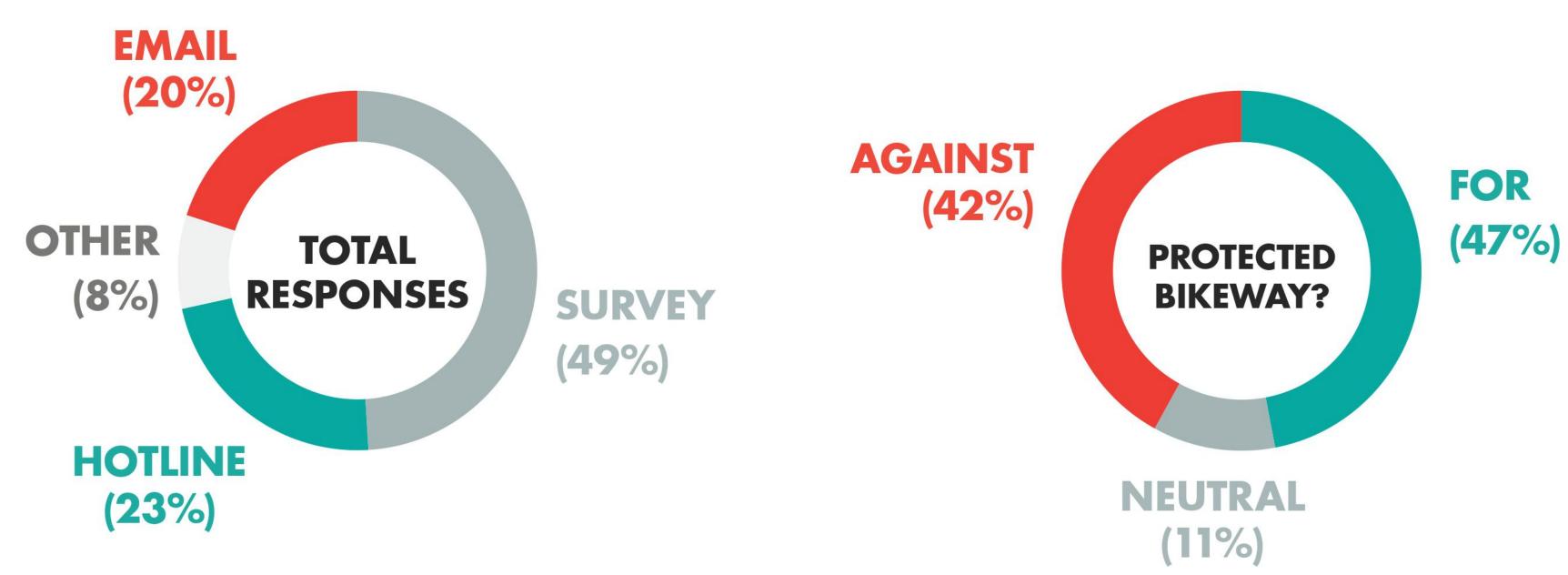
- + Total Reponses: 90 Unique Responses
  - + Online / In-Person Survey (48 Total, 49%)
  - + Email (20 Total, 20%)
  - + Hotline Number (22 Total, 23%)

#### **IMPORTANT CONCERNS**

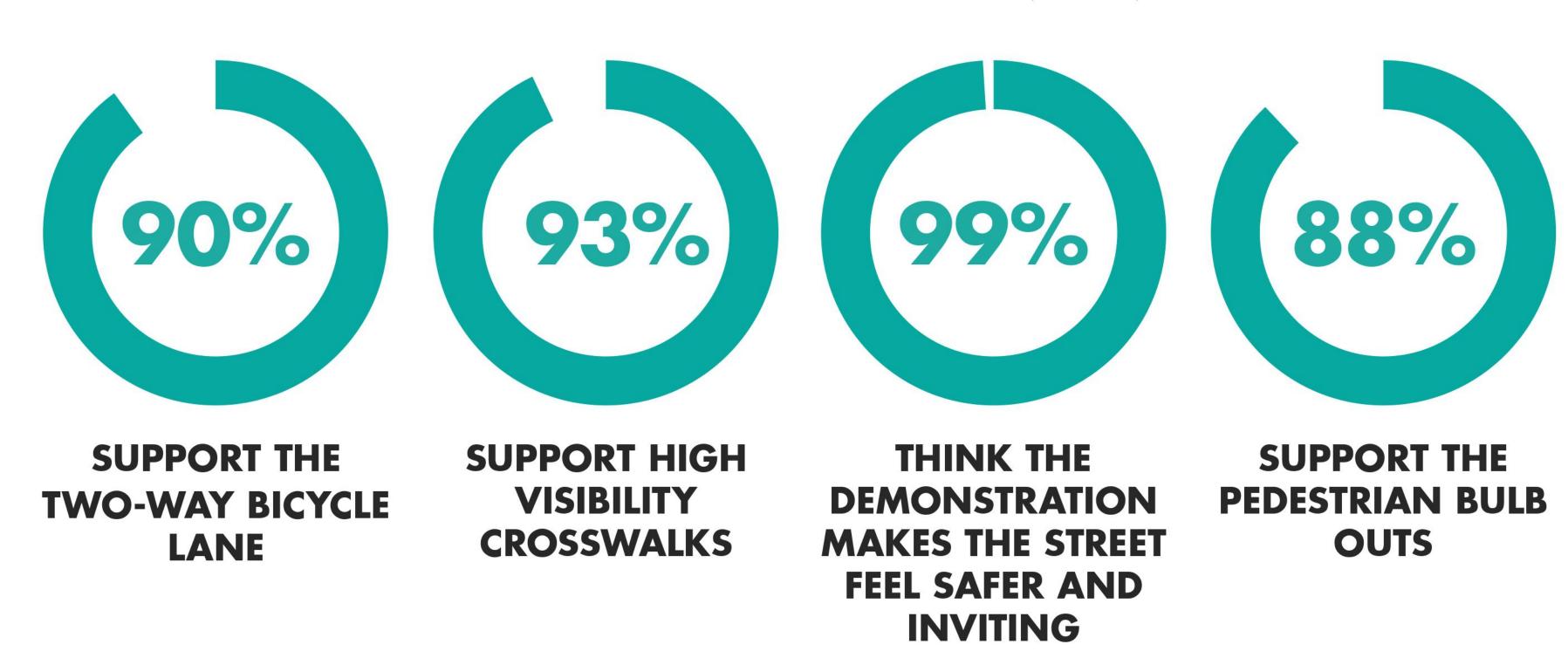
(In Order of Importance)

- + Sightline issues at the intersection of Elenda St. and Oregon/Arizona/Marietta
- + Claustrophobia/traffic due to center turn lane removal
- + Removal of right turn lane into Elenda from Culver Blvd.
- + Not enough bicyclists using Elenda St.
- + Design:
  - + Intersection treatment
  - + Two-way bicycle lanes
  - + Parking protected bicycle lanes

### **CULVER CITY SURVEY FEEDBACK (2018)**



## SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS (SCAG) GOHUMAN SURVEY FEEDBACK (2018)





## PLEASE GIVE US YOUR FEEDBACK REGARDING THE PROJECT AT

HTTPS://WWW.SURVEYMONKEY.COM/ R/5XKJRCM

BY 03/25/2019



