

# City of Rancho Cordova Roundabout Feasibility Study Community Workshop

June 7th, 2023



CityOfRanchoCordova.org

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## Meeting Agenda

- Introductions
- Meet the Team
- Prior Engagement
- Project Objectives
- Information on Roundabouts
- Feasible Locations
- Next Steps



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# Project Team

FY21/22 Caltrans Sustainable Transportation Planning Grant

Project: Citywide Feasibility Study & Implementation Plan

City of Rancho Cordova (Grant Recipient)

Project Manager = Kristine Courdy  
Principal Engineer = Edgar Medina  
Senior Transportation Planner = Drew Hart

Kittelson & Associates, Inc. (Project Consultant)

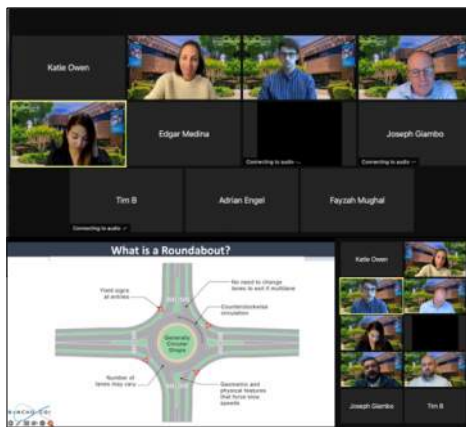
Project Manager = Mike Alston  
Principal In-Charge = Wade Scarbrough  
Project Planner = Matt Braughton



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# Prior Engagement

## Virtual Workshop October 2022



## Open House January 2023



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# Project Objectives

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## Project Objectives



**Develop** the Roundabout Priority Plan for the City



**Utilize** Public & Stakeholder Feedback to Develop Project Deliverables



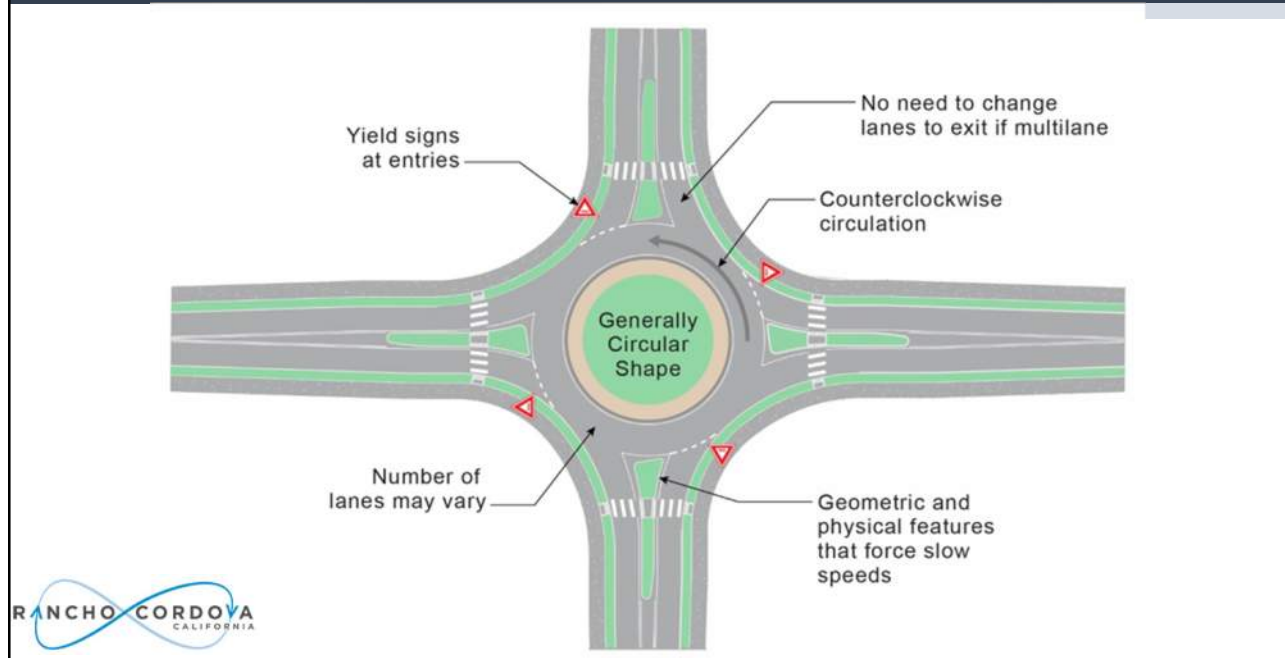
**Prepare** Guidelines for Future Guidance about Roundabouts

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# Roundabout Education

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## What is a Roundabout?



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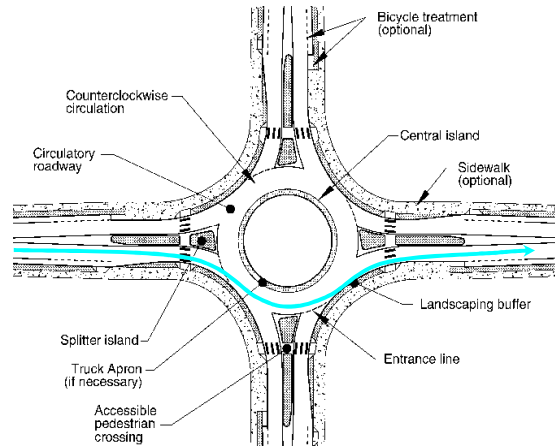
## Why Build Roundabouts?

### Safety improvements:

- 90-100% reduction in fatalities
- 75% reduction in injuries
- 35% reduction in total crashes

### Roundabouts controls vehicle speeds:

- 25 mph for single-lane
- 30 mph for two-lane
- Increased time for drive reaction
- Decreased chance for injury or fatality



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## Aesthetic & Green Infrastructure Opportunities



Bend, Oregon  
Source: Lee Rodegerdts



Portland, Oregon  
Source: Lee Rodegerdts



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## Roundabouts & Pedestrians

### Considerations for Visually Impaired:

1. Well defined walkway edges
2. Separated walkways
3. Aligned detectable warnings
4. Perpendicular crossings
5. Contrasting crosswalk markings



Note presence of push-button for multilane roundabout crossing.  
Source: Lee Rodegerdts

Performance assessment detailed in NCHRP Report 834

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## Roundabouts & Bicycles

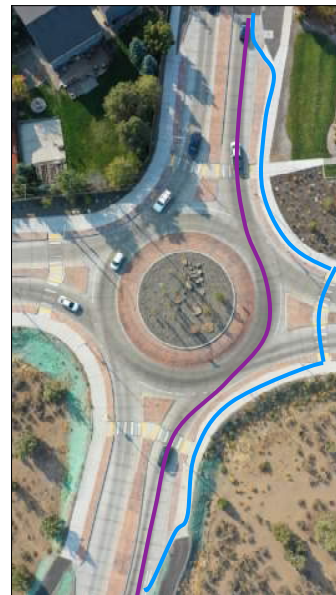
Roundabouts slow vehicles to speeds compatible with bicycles

Bicyclists have option of traveling as **vehicle** or **pedestrian**

- Serve different users based on their level of comfort

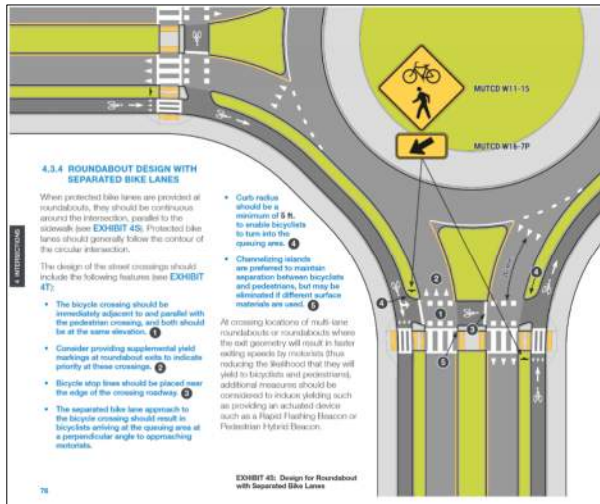
No bicycle lanes within circulatory roadway

Guidance for off-street paths is emerging



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# Separate Bike/Ped Options



San Luis Obispo, California  
Source: Brian Ray



# Roundabouts & Larger Vehicles

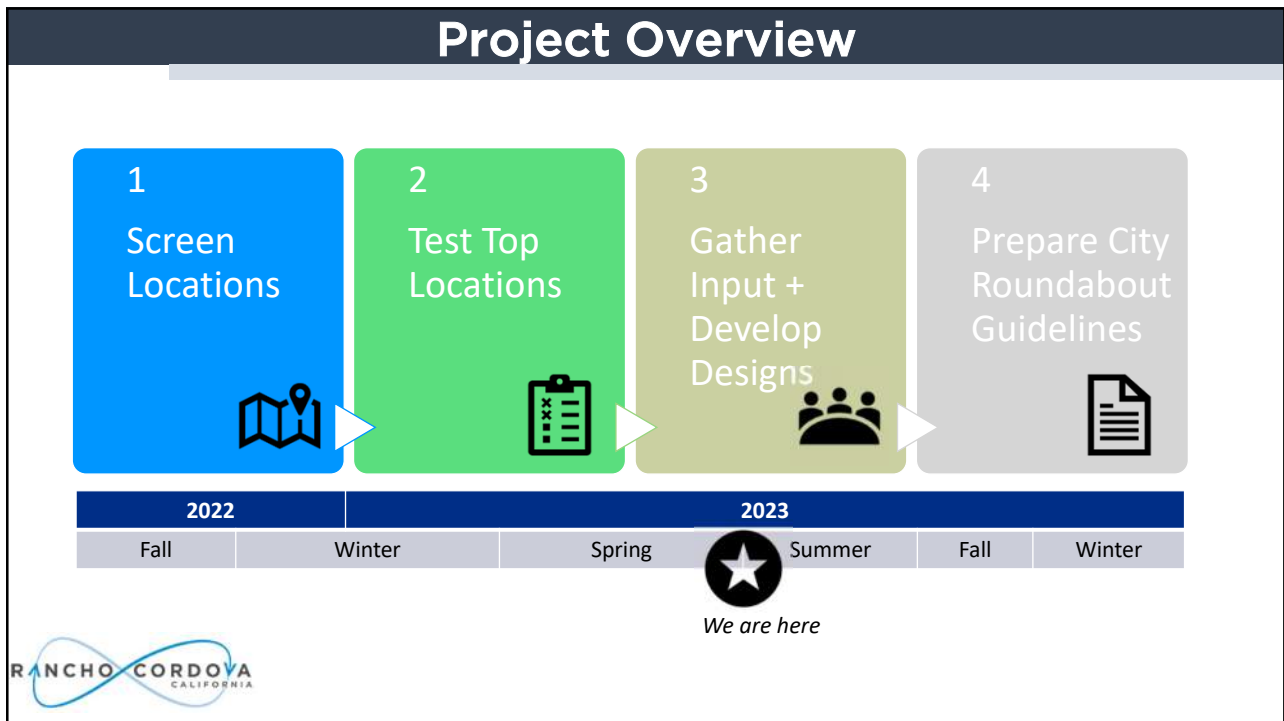
**Roundabouts can accommodate large vehicles through design:**

- Truck aprons
- Placement of landscaping
- Reinforced curbs



# Project Overview

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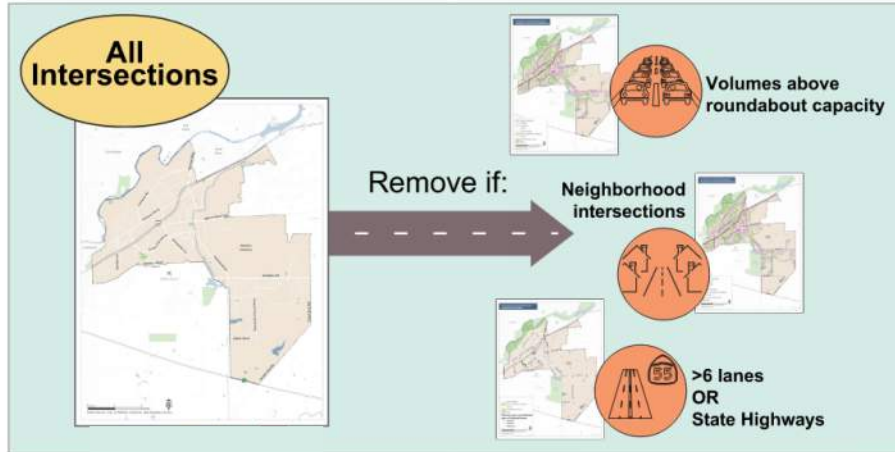


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# Project Overview

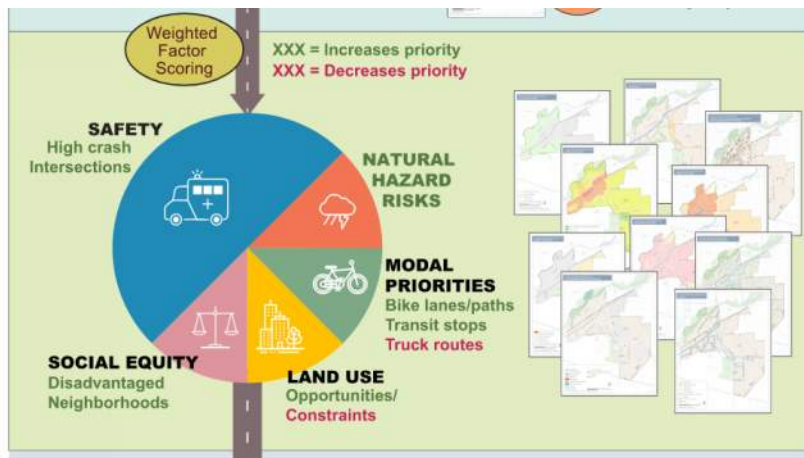
## Part 1: Screen Locations



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# Project Overview

## Part 1: Screen Locations



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# Project Overview

## Part 1: Screen Locations



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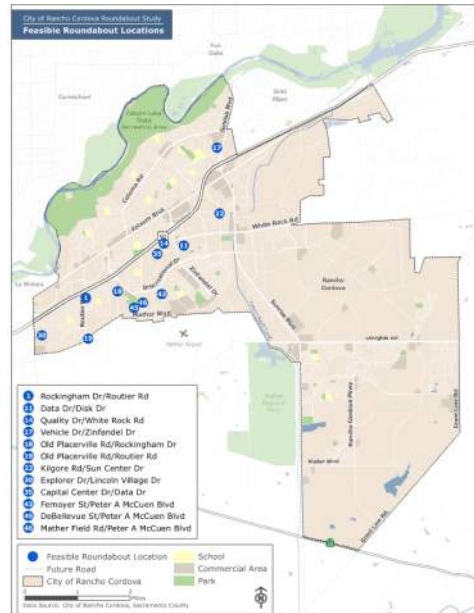
# Project Overview

## Part 2: Test Top Locations

- Vetted top 50 for feasibility
  - Traffic volumes accounting for future growth
  - Size of intersection based on design vehicles
  - Narrowed list to 12 intersections



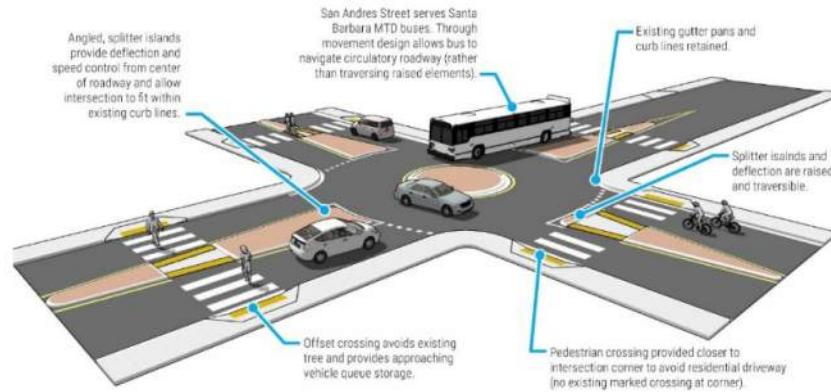
Example feasibility testing



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# Project Overview

## Part 3: Gather Input + Develop Designs

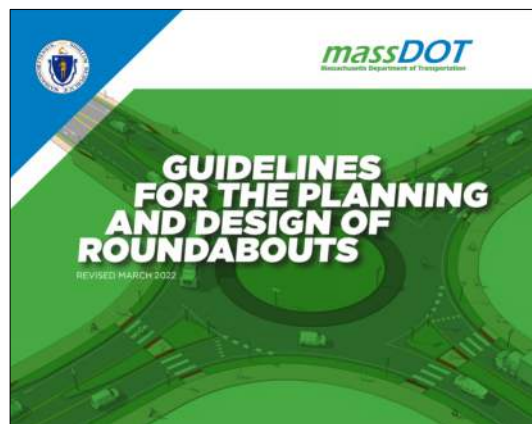


Example rendering of roundabout design concept



# Project Overview

## Part 4: Prepare City Roundabout Guidelines

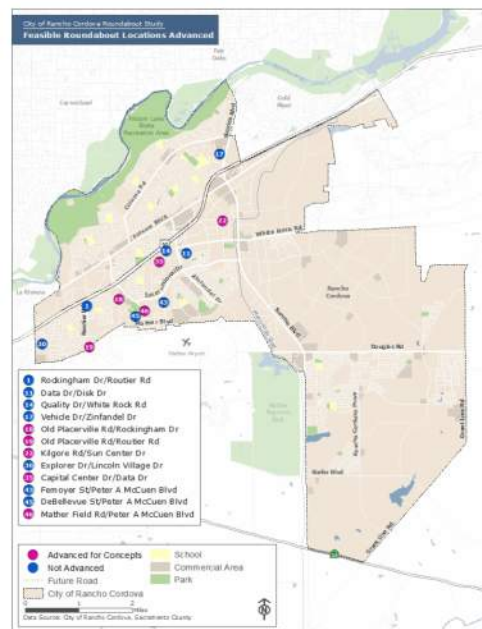


# Feasible Locations

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## Advancing Five Locations for Concept

- Narrowed to five based on:
  - Prioritization rank
  - Land uses (avoiding property takes)
  - Public input
  - Public Works and Planning feedback
  - Traffic Data
- 5 Locations are:
  - Old Placerville Rd / Rockingham Dr
  - Old Placerville Rd / Router Dr
  - Kilgore Rd / Sun Center Dr
  - Capital Center Dr / Data Dr
  - Mather Field Rd / Peter A McCuen Blvd



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# Draft Concepts

## #18 Old Placerville Rd / Rockingham Dr



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# Draft Concepts

## #19 Old Placerville Rd / Router Dr



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# Draft Concepts

## #22 Kilgore Rd / Sun Center Dr



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# Draft Concepts

## #35 Capital Center Dr / Data Dr



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# Draft Concepts

#46 Mather Field Rd / Peter A McCuen Blvd

## SCORECARD



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# Next Steps

- Refine concept locations
- Develop prioritization plan



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## Next Steps

We want to hear from you!

<https://metroquestsurvey.com/dv2v2i>

Or [bit.ly/RanchoRoundabout](https://bit.ly/RanchoRoundabout)



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# THANK YOU

**Check Web Portal for Project Updates:**

[www.cityofranhocordova.org/CurrentProjects](http://www.cityofranhocordova.org/CurrentProjects)

**If you have additional questions about the project,  
please reach out to the City's Project Manager:**

Kristine Courdy

(916) 851-8842

[kcourdy@cityofranhocordova.org](mailto:kcourdy@cityofranhocordova.org)



[CityOfRanchoCordova.org](http://CityOfRanchoCordova.org)

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