City of Rancho Cordova Roundabout Feasibility Study Community Workshop

October 12, 2022



CityOfRanchoCordova.org

1

Before we get started... Participants will remain muted during the presentation to limit background noise. Add any questions or comments to the chat box or use the "Raise Hand" function If you're calling in, press *9 to raise your hand. When we call on you and unmute you, then press *6 to begin speaking. TABLET: COMPUTER: RENCHO CORDONA RENC

Meeting Goals

- Introductions
- Provide Information on Roundabouts
- Provide Project Overview
- Solicit Community Feedback



3

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



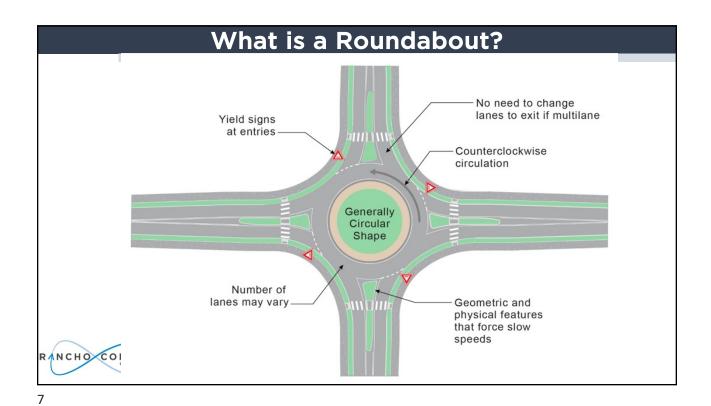
Live Poll #1 **Question 1: Identify Purpose In Rancho Cordova** A. Resident C LIVE B. Work C. Recreation D. Visit with Friends/Leisure E. Other (put in chat) Question 2: What are your general thoughts/attitude about roundabouts? 1 - Very negative 2 - Slightly negative 3 - Neutral 4 - Slightly positive 5 - Very positive RANCHO CORDOVA

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



6



Sacramento
West River Dr / Orchard Ln

Source Google Earth

Source Google Earth

What is a Roundabout?

Roseville
Oak St / Washington Blvd

Why Build Roundabouts?

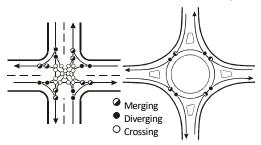
- Roundabouts are being considered for potential benefits:
 - Safety improvements
 - Lower delay
 - Environmental benefits (emissions, fuel savings)
 - · Access management
 - · Operations and maintenance costs
 - Aesthetics



۵

Safety Performance

- 90-100% reduction in fatalities
- 75% reduction in injuries
- 35% reduction in total crashes
- · Very little reported pedestrian and bicycle crash experience

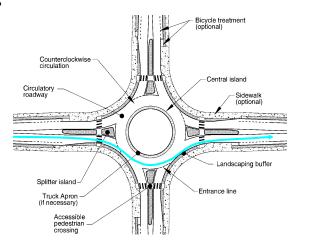




Source: NCHRP Report 572, NCHRP Report 6

Vehicle Speeds Reduced

- · Roundabouts controls vehicle speeds
 - Entry speeds at or less than:
 - 25 mph for single-lane
 - 30 mph for two-lane
 - Circulating speeds: 10 to 12mph
- · Slow speeds
 - · Increased time for driver reaction
 - · Decreased chance for injury or fatality





11

Aesthetic & Green Infrastructure Opportunities Bred, Organ Source: Lee Rodegerdts Fortland, Organ Source: Lee Rodegerdts

Roundabouts & Pedestrians

- · Benefits:
 - · Slow vehicle speeds
 - · Two-stage crossing
- Considerations:
 - Crosswalk location
 - Space for exiting vehicles to yield to pedestrians
 - · Yield-controlled crossings





13

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

Performance assessment detailed in NCHRP Report 834





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

R NCHO CORDOVA

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







Roundabouts & Larger Vehicles

- Roundabouts can accommodate large vehicles through design:
 - · Truck aprons
 - · Placement of landscaping
 - Reinforced curbs







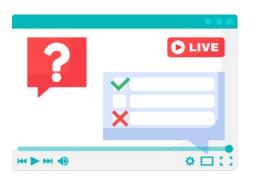
RNCHO CORDONA CALIFORNIA

17

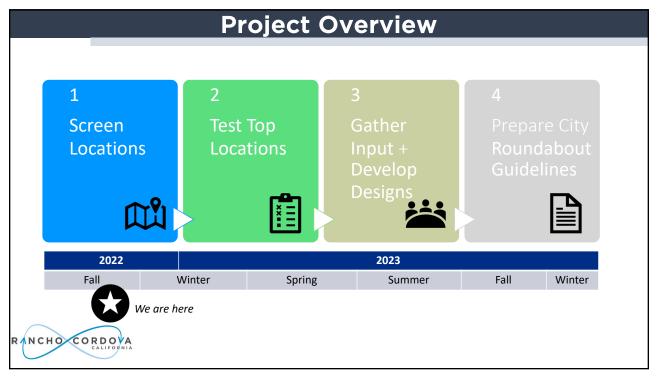
Live Poll #2

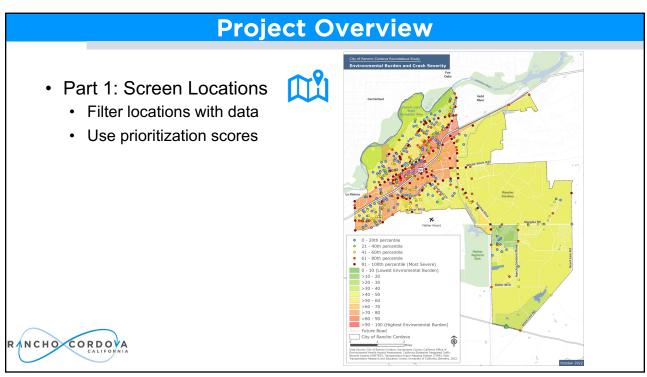
Question 1: Do you feel you have a better understanding of roundabouts?

- A. Yes I understand them better
- B. Unchanged
- C. No I have more confusion









Project Overview

Part 2: Test Top Locations





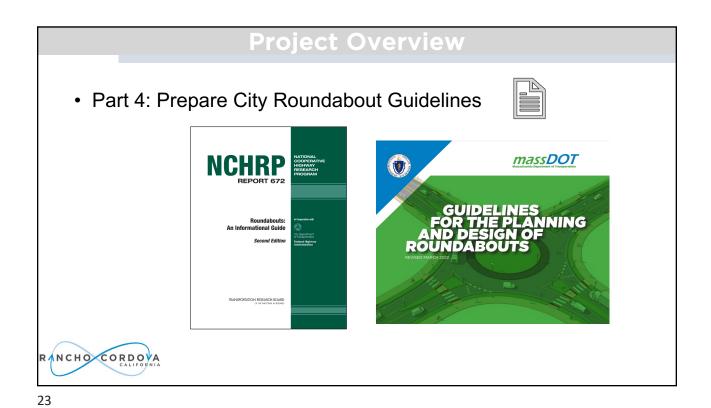


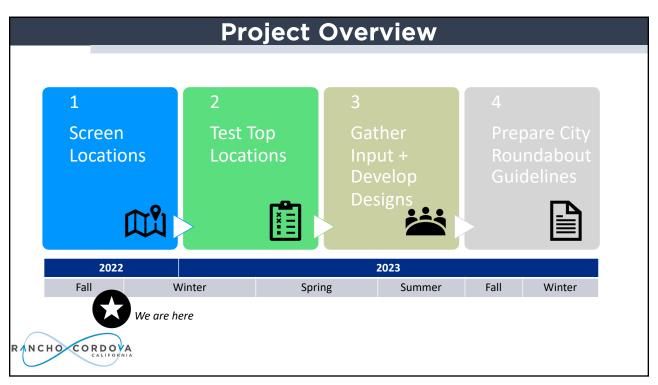
 ${\it Example feasibility Testing, starting with assumed size and advancing to sketch level concept.}$



21

Part 3: Gather Input + Develop Designs Angel, sillter islands provide deflection and speed control from certain design curb lines. San Andres Street serves Sarnta Burbors MTD buset. Through divers but in Traversition for gold and but to the street serves Sarnta Burbors MTD buset. Through divers but in traversiting and elemental. To traversity of all with the street serves Sarnta Burbors MTD buset. Through diversity during the street serves Sarnta Burbors MTD buset. Through diversity during the street serves Sarnta Burbors MTD buset. Through street s





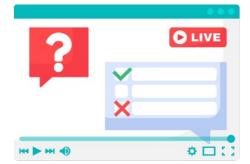
Live Poll #3

Question 1: What is the top priority you would like the City to emphasize for roundabout project opportunities?

- A. Maximum safety benefit
- B. Social equity location emphasis
- C. Bike route locations
- D. Other (tell us your comment in the chat!)

Question 2: Has the information presented today changed your thoughts on roundabouts at all?

- 1 Significantly less favorable opinion
- 2 Slightly less favorable opinion
- 3 Opinion has not changed
- 4 Slightly more favorable opinion
- **5** I now have a significantly more favorable opinion





25

Questions & Answers

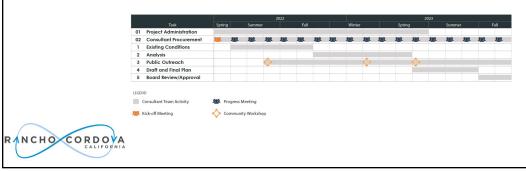
- We want to hear from you:
 - Overall feedback on roundabouts
 - Input on how to prioritize locations
 - Other questions





Next Steps

- · Identify top locations
- Develop Concept Locations
- Document feedback and best practices for City Guidelines
- Next Community Workshop in early 2023





Question & Answer Session

- We want to hear from you:
 - Overall feedback on Roundabouts
 - Input on how to prioritize locations
 - What questions do you have?

