

WELCOME TO THE MEETING



We will begin shortly!

- Please turn your video off and mute your microphones to prevent any lagging during the presentation.
- We will be taking questions at the end of the presentation – If you would rather type your message, please use the chat at any time and we will include those questions in our discussion at the end.

If you are a Public Official, please introduce yourself in the chat!

This meeting will be recorded, and the slides will be available on the City of Rio Rancho Website at <https://rrnm.gov/> Recording will be available by request.

**IDALIA ROAD PHASE II
FINAL DESIGN FOR
PRIORITY PROJECTS 1 AND 2**

CN A300201

PUBLIC MEETING NO. 3

December 11th, 2024



IDALIA ROAD PHASE II FINAL DESIGN

Design Team

• City of Rio Rancho

- BJ Gottlieb – Director of Public Works & City Engineer
- Jamie Marrufo – Deputy Director of Public Works
- Arnell Friedt – Project Manager & Capital Improvements Section Manager

• Consultant Team

- Andrew E. Gallegos – Transportation Engineer/Consultant Manager
- Adam Miera – Lead Traffic Engineer
- Jeff Curtis – Lead Roadway Designer
- Sheila Johnson – Lead Drainage & Utility Engineer
- Austin Schmidt – Drainage Engineer
- Kathlene Meadows – Lead Environmental Scientist
- Megan Rabinowich – Environmental Scientist
- Clay Wygant – Surveying and Right-of-Way
- Katie Paquette – Landscape Architect
- Jonathan Pham – Traffic Engineer/3-D Modeling and Visualizations



IDALIA ROAD PHASE II FINAL DESIGN



MEETING AGENDA

1. Phase I-A/B Alignment Study Recap
2. Project Overview
3. Final Design Intersection Layouts
4. 3D Models/Visualizations
5. Project Improvements
6. Environmental Updates
7. Project Schedule and Next Steps
8. Questions



Loma Colorado Blvd. intersection

IDALIA ROAD PHASE II FINAL DESIGN



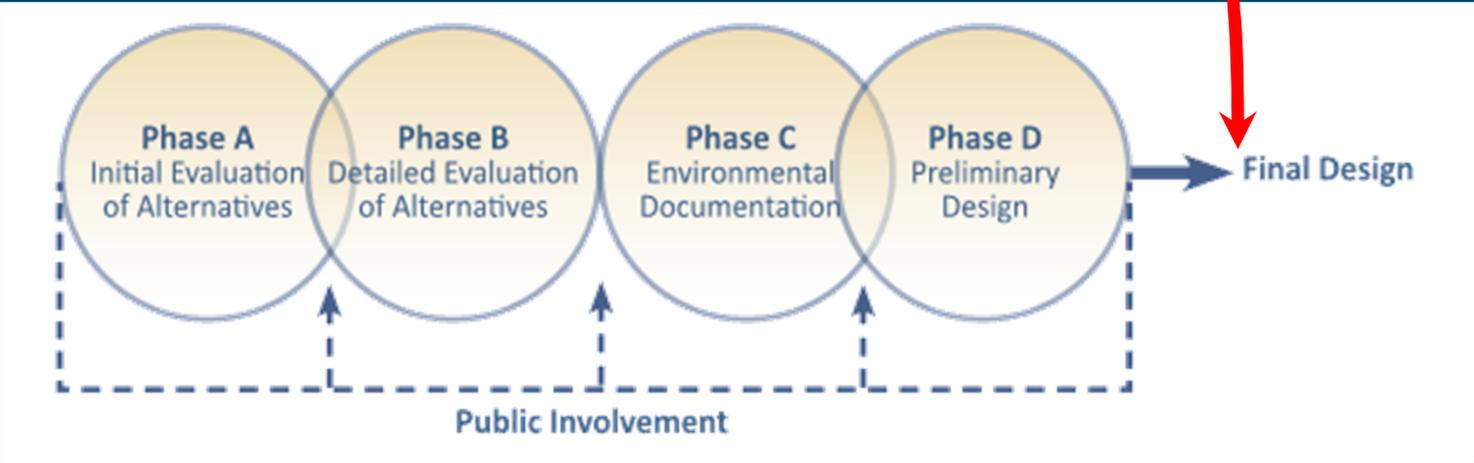
NMDOT Study Procedures

Location Study Procedures
Update 2015

A Guidebook for:
Planning and Environmental Linkages,
Alignment Studies, and Corridor Studies

Previous Meetings:
December 16, 2021
May 4, 2022

We are Here
December 11, 2024



IDALIA RD. ALIGNMENT STUDY



IDALIA RD. ALIGNMENT STUDY

PURPOSE AND NEED



PURPOSE AND NEED STATEMENT

“The purpose of this project is to correct the physical deficiencies, improve safety, accommodate future traffic demands, and provide multi-modal accessibility within the Idalia Road study corridor. This includes updating intersection geometry for improved sight distance at intersections, providing connectivity for multi-modal users, and upgrading the drainage facilities as required to accommodate the full buildout of the typical section for the corridor.”

The Needs Include The Following:

STUDY NEEDS:

- Roadway Geometry Deficiencies – **Is a Need**
 - Intersection Geometry
 - Curb Ramps at Intersection and Sidewalks
 - Roadway conditions (pavement, curb, sidewalk)
 - Drainage deficiencies
- Safety – **Is a Need**
 - Access Management in corridor and property access
 - Pedestrian crossings and accessibility
- System Connectivity – **Is a Need**
 - Pedestrian and Bicycle Accessibility (Multi-modal & Access)
 - Safe Crossings at intersections (Cross-Walks and locations to cross)

IDALIA ROAD PHASE II FINAL DESIGN PHASE A/B REVIEW



Project Issues/Challenges:

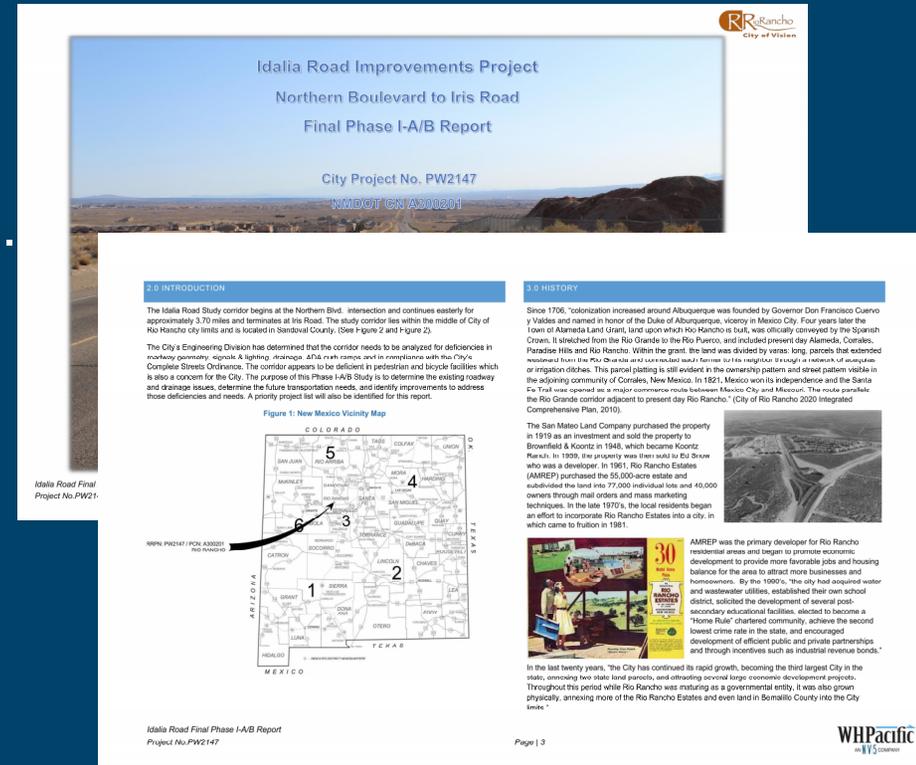
- Roadway conditions, no sidewalk or curb and gutter
- Drainage issues at crossing structures and erosion adjacent to roadway
- Travel Demand and Congestion
- Safety and Access Management
- Pedestrian accessibility and crossings
- Speeding was a perceived issue
- Noise was a perceived issue



IDALIA ROAD PHASE II FINAL DESIGN PHASE A/B REVIEW



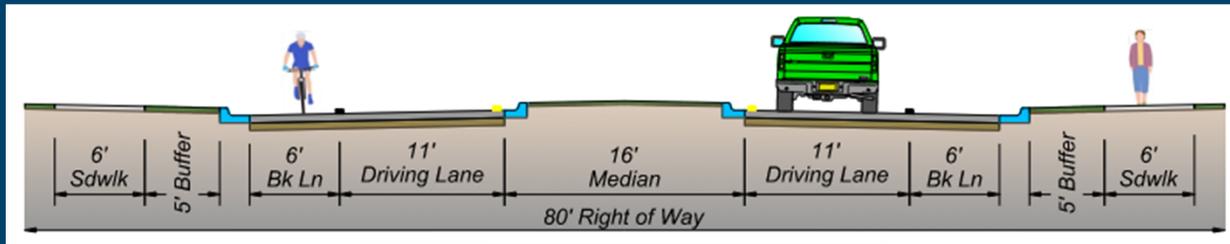
- Preferred Alternatives Advanced into Design:
 - Dual-Lane Roundabouts at Broadmoor Blvd. and Loma Colorado Blvd. intersections
 - Divided Single Lane Arterial Roadway Section with Curb and Gutter, Sidewalks, and a Median
 - Storm Drain Systems
 - Added Water and Sanitary Sewer Lines
 - Retaining Walls to minimize Property Impacts
 - Landscaping Features



IDALIA ROAD PHASE II FINAL DESIGN



Proposed Roadway Typical Sections



Roadway Characteristics

- Urban Minor Arterial Roadway Classification
- 2-11' Driving Lanes (1 in each direction) w/curb and gutter
- 6' bicycle lanes
- 6' sidewalks w/landscape buffers
- 80' Wide Existing Right-of-way
- 35/40 mph Posted Speed Limits
- New Turning Lanes at city roads and major intersections
- Improved vertical geometry for drainage conveyance
- Roadway won't be widened outside of existing ROW in most areas

IDALIA ROAD PHASE II FINAL DESIGN BROADMOOR BLVD.

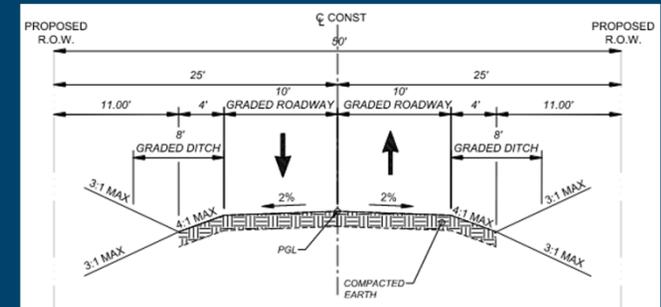


Proposed Access to Properties



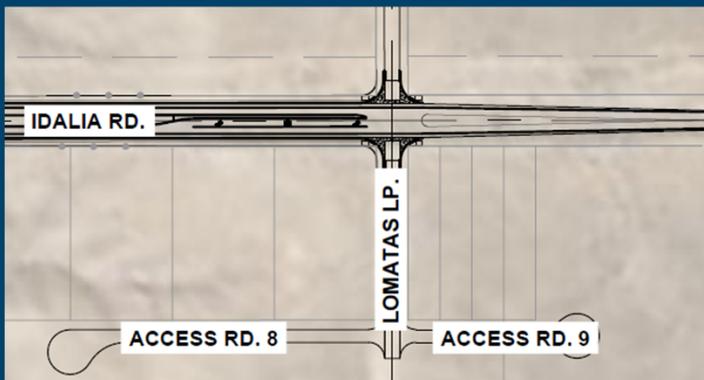
Access Control

- Following State Access Management Manual (SAMM)
- Side Road access
 - Blacksmith St.
- New Access Roads behind properties



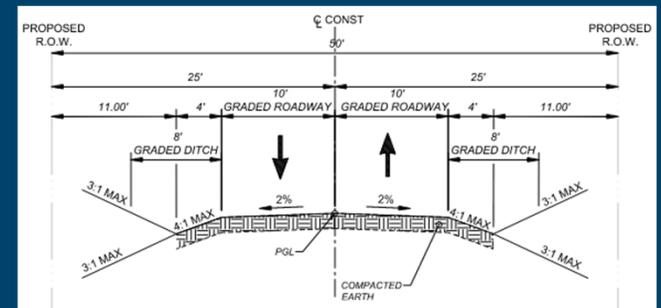
IDALIA ROAD PHASE II FINAL DESIGN LOMA COLORADO BLVD.

Proposed Access to Properties



Access Control

- Following State Access Management Manual (SAMM)
- Side Road access
 - Pioneer Rd.
 - Lomatas LP.
- New Access Roads behind properties



IDALIA ROAD PHASE II FINAL DESIGN



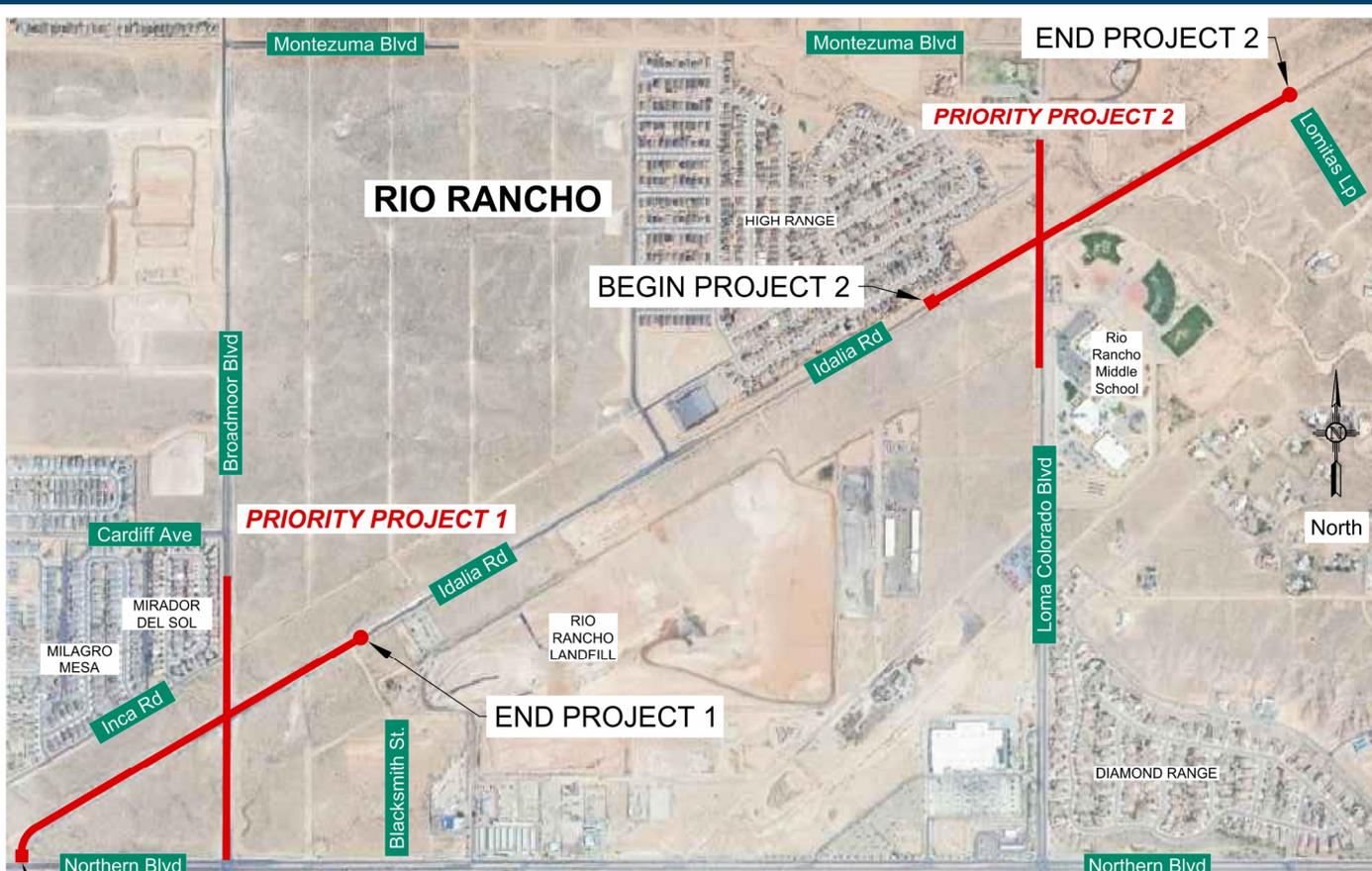
Idalia Road Priority Project Areas

Two Priority Projects:

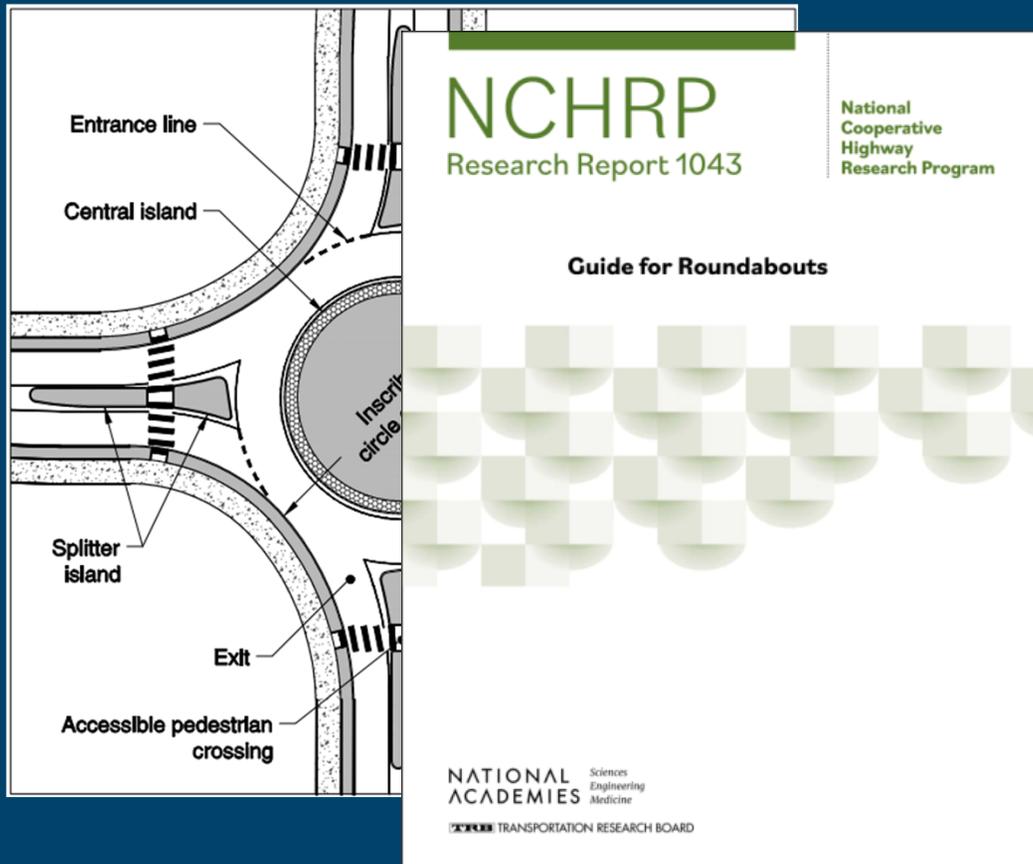
Project 1: Northern Blvd. to Blacksmith St. and Northern Blvd. to Cardiff Ave.

Project 2: West of Loma Colorado Blvd. to Lomas Loop and Rio Rancho Entrance to High Range Dog Park

Projects 3, 4, 5: To be Designed at later date



IDALIA ROAD PHASE II FINAL DESIGN ROUNABOUT FEATURES



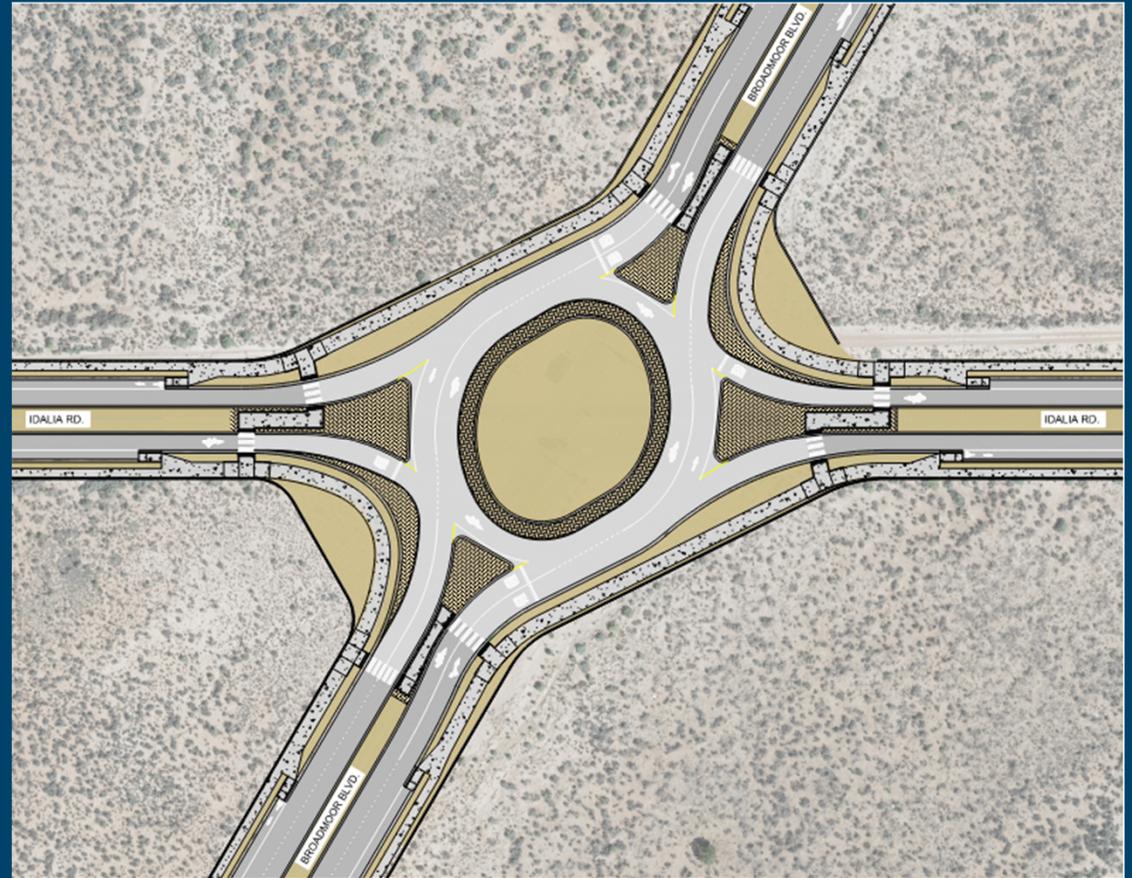
- Inscribed Diameter
- Circular Roadway
- Truck Apron
- Splitter Island
- Pedestrian Crossing
- Entry/Exit
- Landscape Buffer
- Lane Assignment (dual-lane only)

IDALIA ROAD PHASE II FINAL DESIGN PRIORITY PROJECT 1: BROADMOOR BLVD.



Features:

- Dual-Lane Roundabout for Broadmoor
- Single-Lane on Idalia
- 10' wide sidewalks
- Pedestrian Accessibility
- Lighting Improvements
- Storm Drainage
- Landscaping features
- Retaining Walls

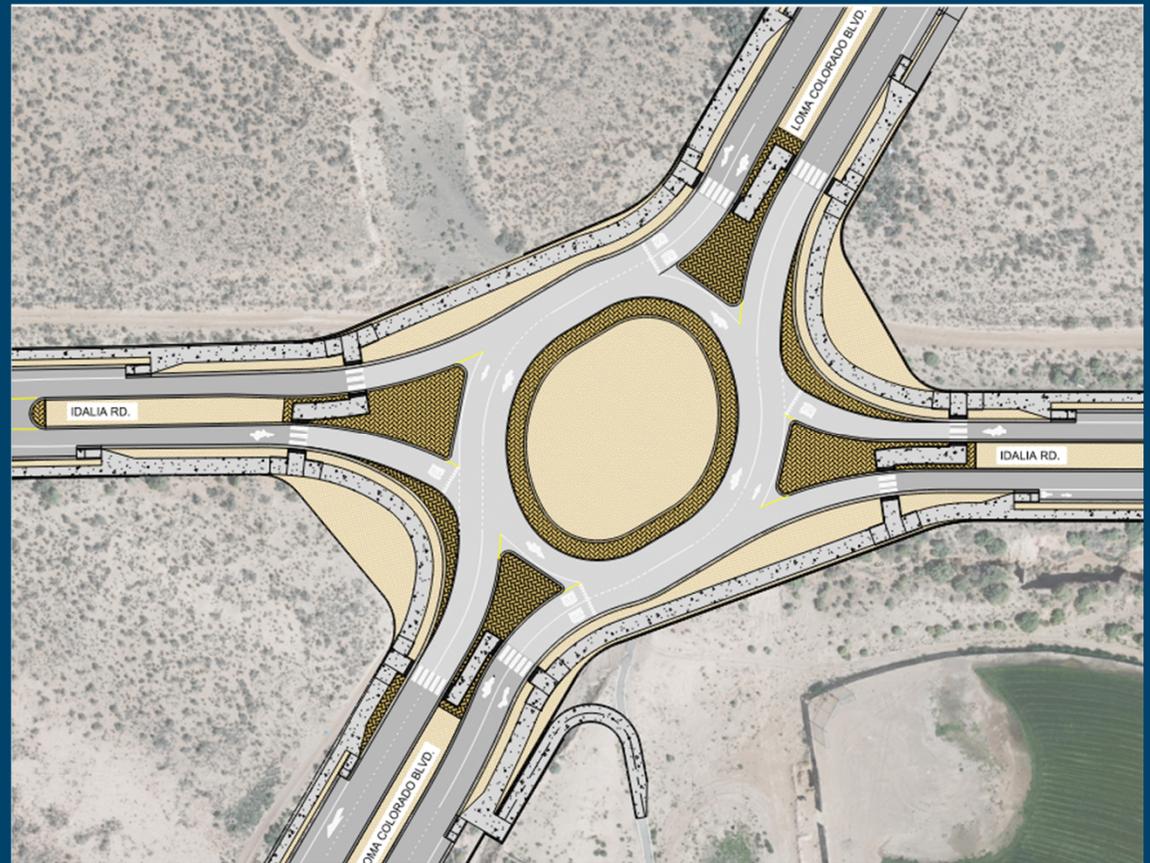


IDALIA ROAD PHASE II FINAL DESIGN PRIORITY PROJECT 2: LOMA COLORADO BLVD.



Features:

- Dual-Lane Roundabout for Broadmoor
- Single-Lane on Idalia
- 10' wide sidewalks
- Pedestrian Connection to School
- **Rapid Flashing Beacons**
- Lighting Improvements
- Storm Drainage
- Landscaping features
- Retaining Walls



IDALIA ROAD PHASE II FINAL DESIGN

OTHER SAFETY FEATURES



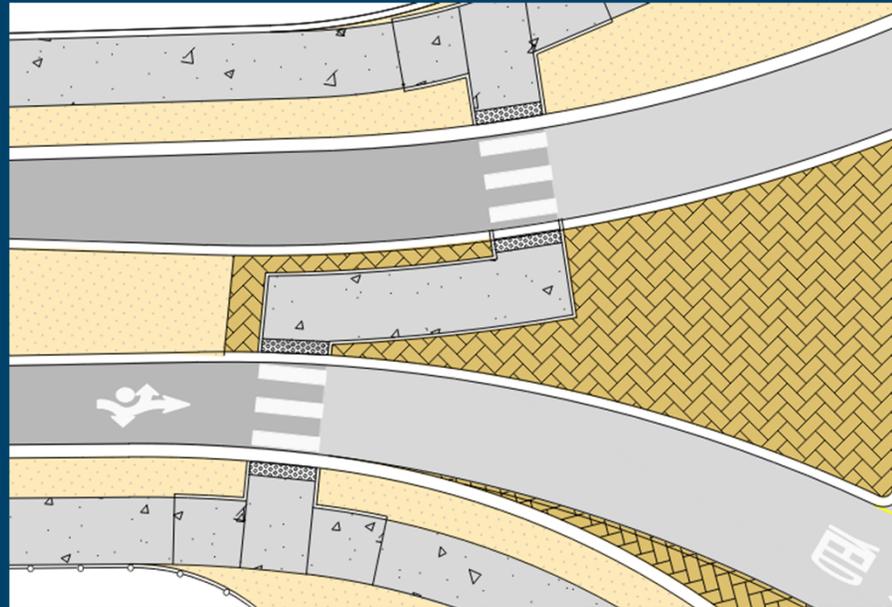
Rapid Flashing Beacons

- Loma Colorado Intersection due to school
- Increase driver yield rates
- Reduce pedestrian conflicts



Z-shaped Islands

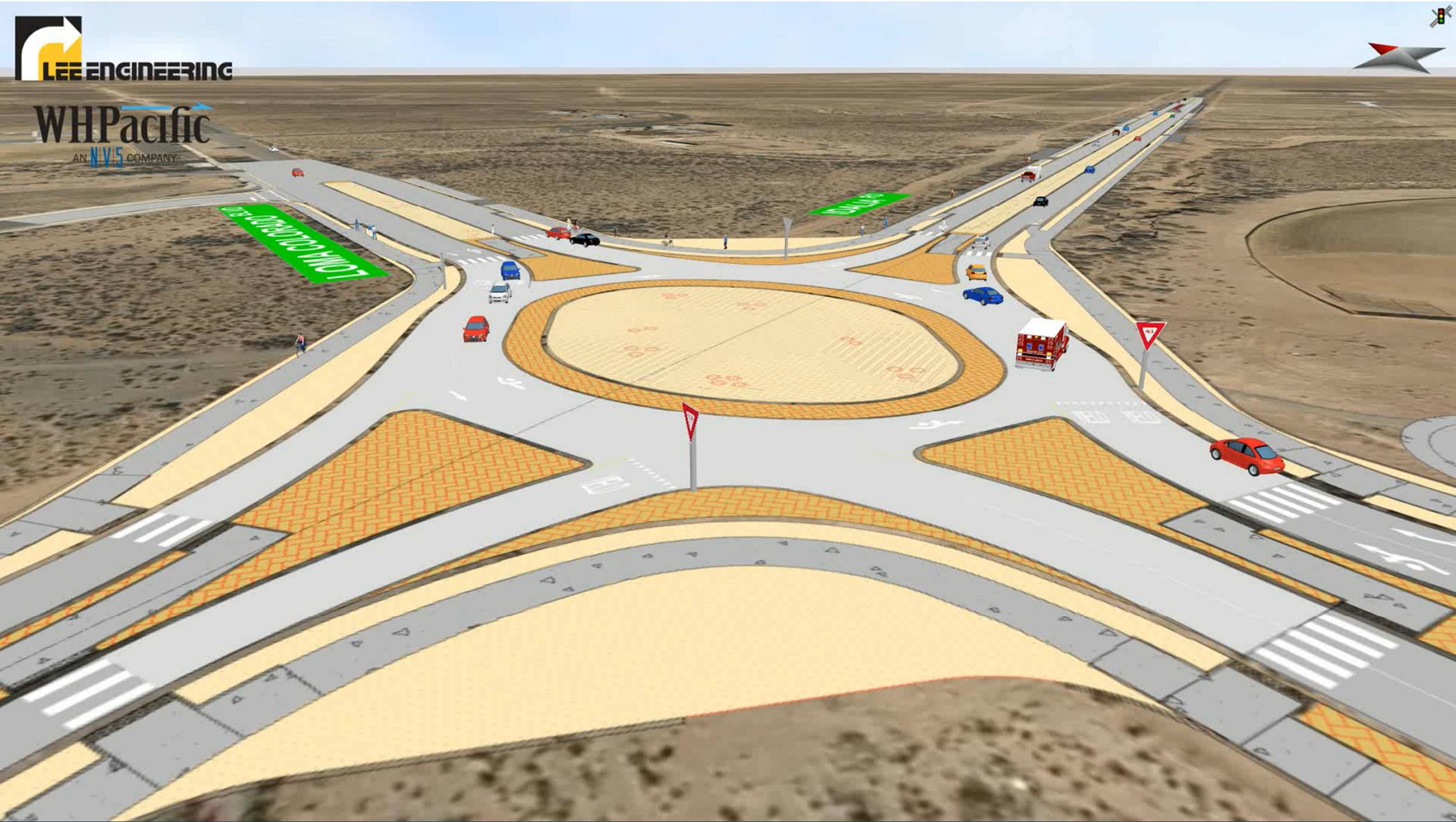
- Forces pedestrians to look for oncoming vehicles
- Becoming more common practice







WHPacific
AN NVIS COMPANY



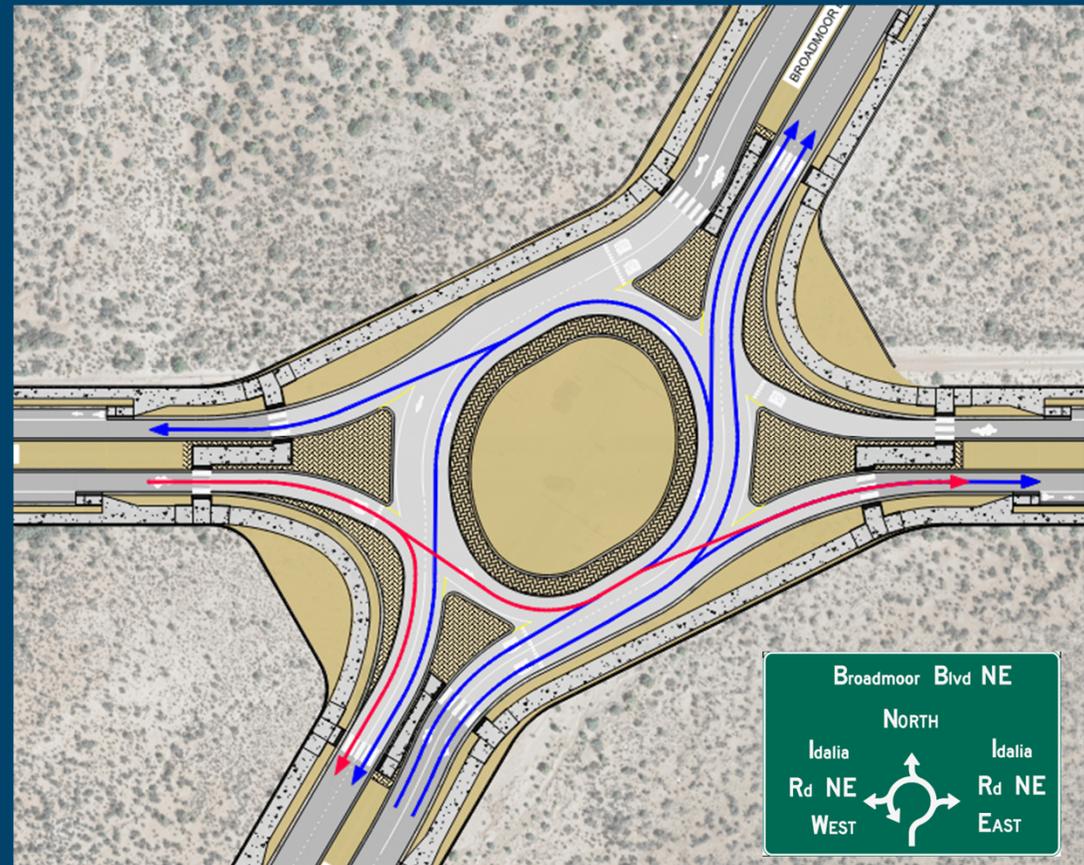
IDALIA ROAD PHASE II FINAL DESIGN ROUNDAABOUT RULES



Driving through Roundabout at Broadmoor Blvd.

Rules of Engagement:

1. Reduce speed to 15 mph at the roundabout approach.
2. Look for crossing pedestrians and yield if required.
3. Look Left for oncoming vehicles. Vehicles in the roundabout have the Right-of-way.
4. Proceed through the roundabout at 15 mph like a regular intersection.
5. Look for crossing pedestrians on the exit of the roundabout.



IDALIA ROAD PHASE II FINAL DESIGN

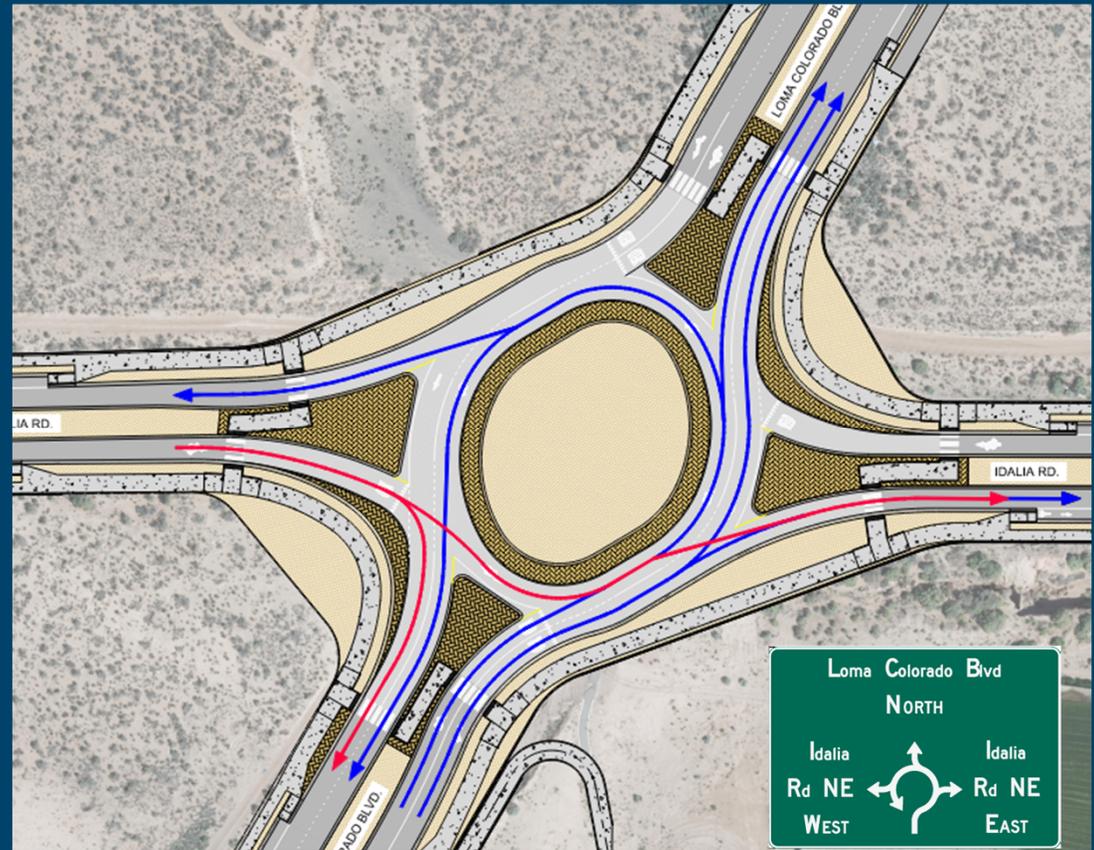
ROUNABOUT RULES



Driving through Roundabout at Loma Colorado Blvd.

Rules of Engagement:

1. Reduce speed to 15 mph at the roundabout approach.
2. Look for crossing pedestrians and yield if required. **Look for Flashing Beacons.**
3. Look Left for oncoming vehicles. Vehicles in the roundabout have the Right-of-way.
4. Proceed through the roundabout at 15 mph like a regular intersection.
5. Look for crossing pedestrians on the exit of the roundabout. **Look for Flashing Beacons.**



IDALIA ROAD PHASE II FINAL DESIGN



Landscaping at Idalia Blvd./Iris Rd. Intersection

EXISTING IDALIA ROAD IMAGES

- EXISTING ROCK MULCH SIZES AND COLORS TO BE MATCHED
- EXISTING PLANTS TO BE MATCHED
- SIMILAR DESIGN STYLE TO BE USED



IDALIA ROAD PHASE II FINAL DESIGN

Landscaping Materials



PLANTS - NON IRRIGATED



SPINELESS
PRICKLY PEAR



SOTOL



BEARGRASS

LANDSCAPE MATERIALS - OVER FILTER FABRIC



SMOKE 3/4"



VALLEY GOLD
2-4"



SANGRIA 2-4"



VALLEY
GOLD 1"



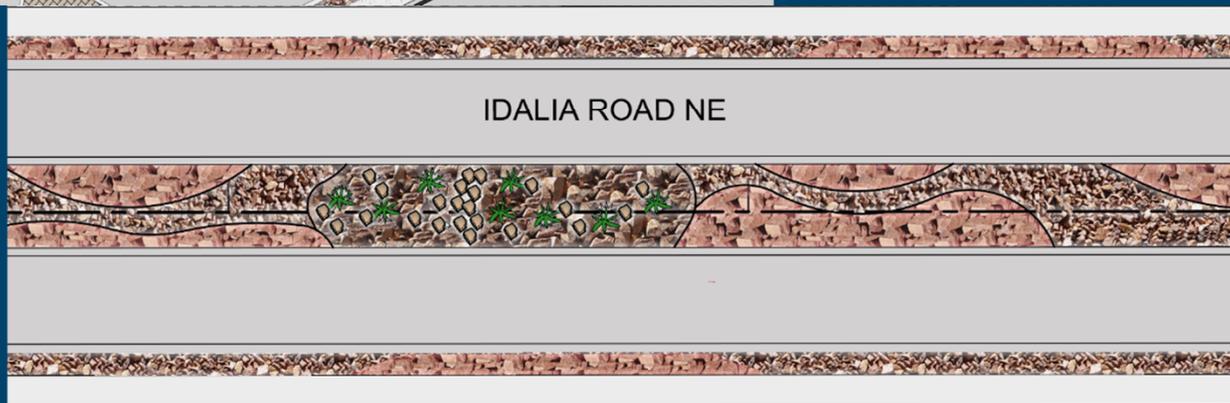
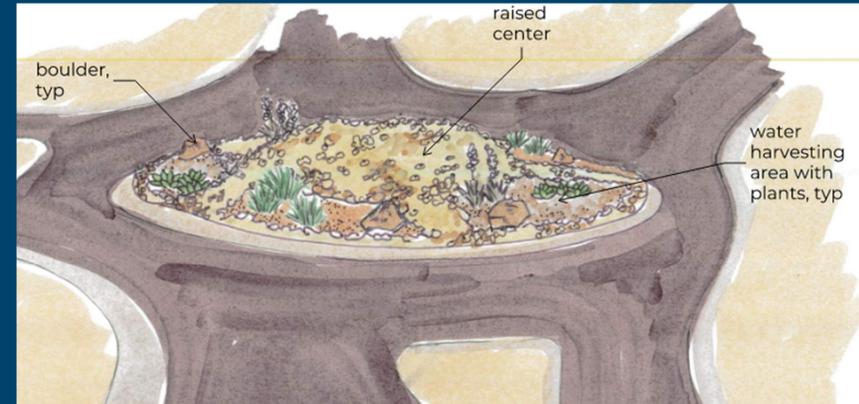
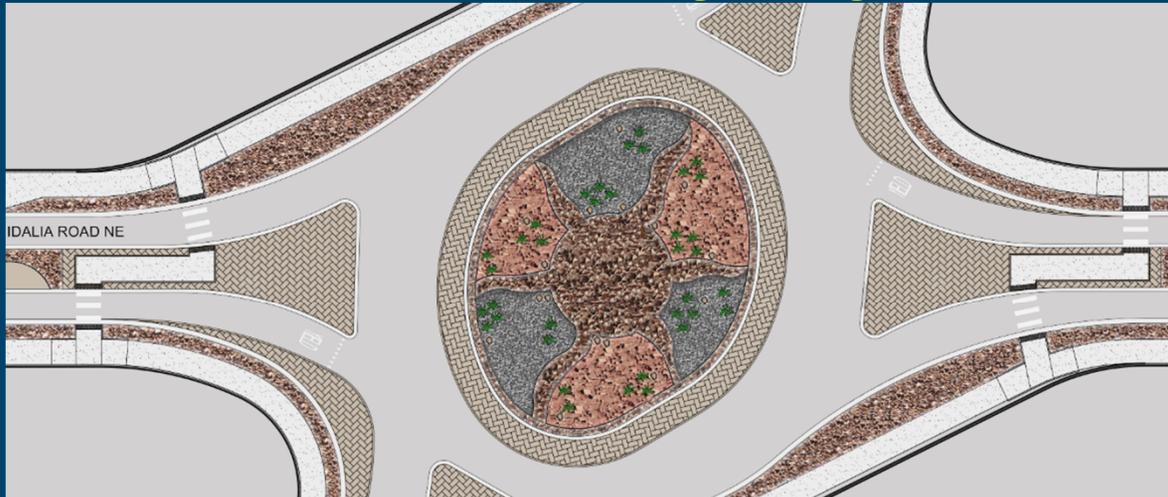
VALLEY
GOLD
BOULDERS

MEDIAN WATER HARVESTING IDEAS



IDALIA ROAD PHASE II FINAL DESIGN

Landscaping Design at Roundabouts

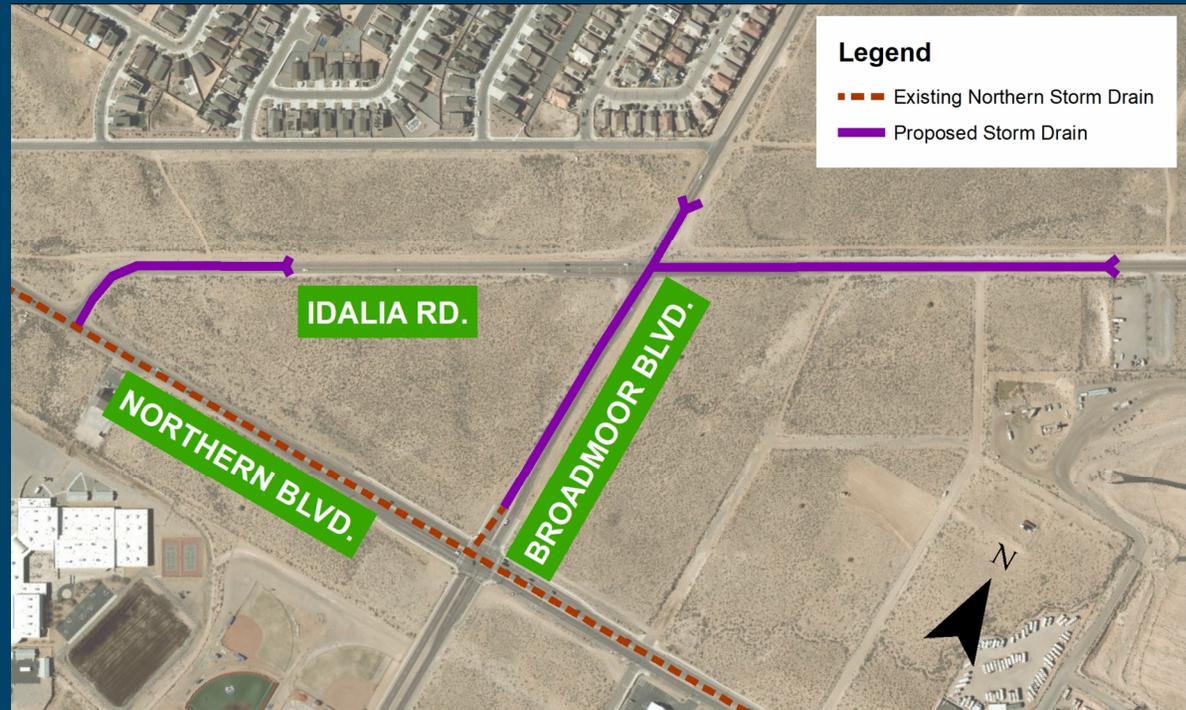
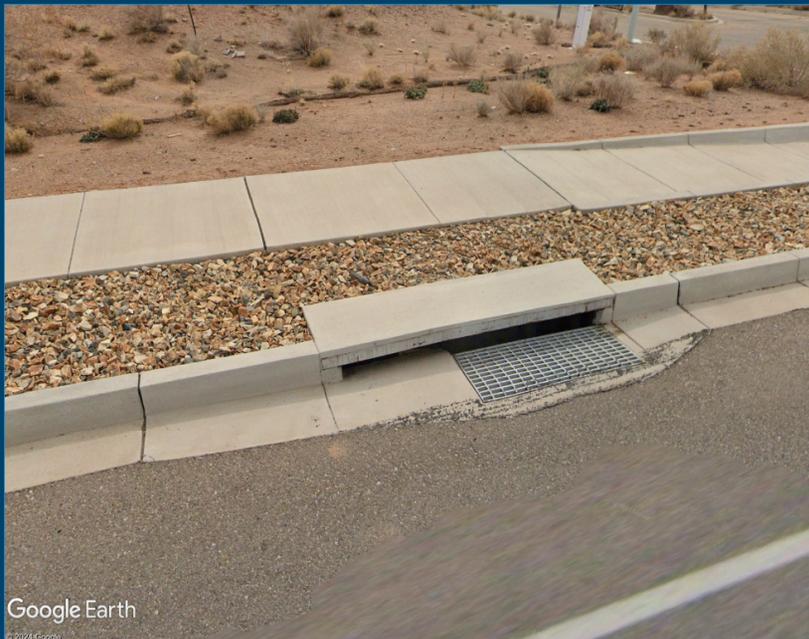


IDALIA ROAD PHASE II FINAL DESIGN



Drainage Design – Project 1

- Storm Drain Pipe
- Manholes
- Storm Inlets

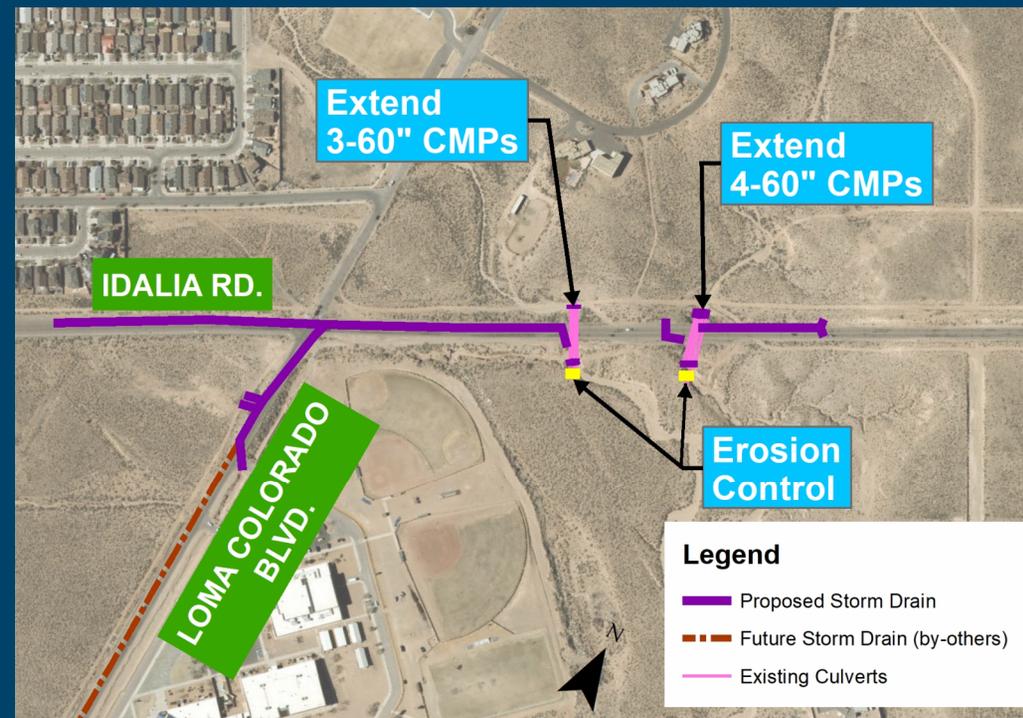


IDALIA ROAD PHASE II FINAL DESIGN



Drainage Design – Project 2

- Storm Drain Pipe
- Manholes
- Storm Inlets
- Erosion Control at Culvert Crossings



IDALIA ROAD PHASE II FINAL DESIGN



Utility Upgrades – Project 1

- *Water Line*
- *Fire Hydrants*
- *Sanitary Sewer*
- *Manholes*

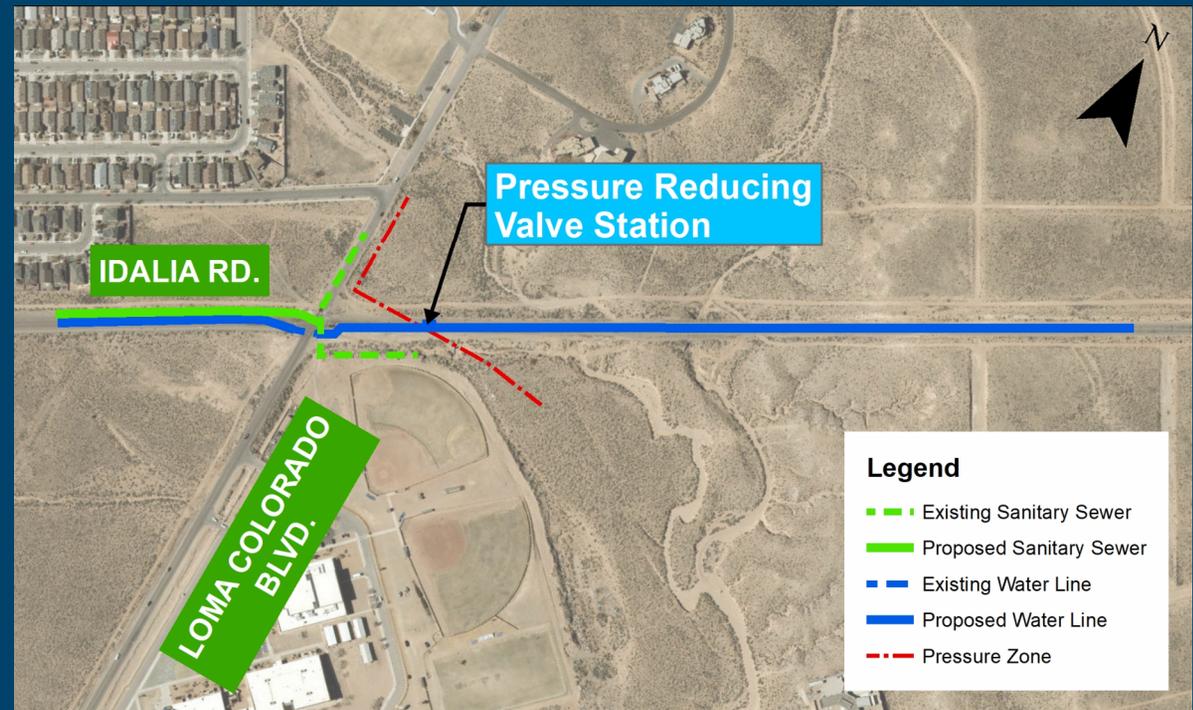


IDALIA ROAD PHASE II FINAL DESIGN



Utility Upgrades – Project 2

- *Water Line*
- *Fire Hydrants*
- *Pressure Reducing Valve Station*
- *Sanitary Sewer*
- *Manholes*



IDALIA ROAD PHASE II FINAL DESIGN

Environmental Study Processes



NMDOT Location Study Procedures

Biological Evaluation (BE): *Completed*

- Potential impact to one federal candidate species and non-wetland waterways, mitigation measures provided.

Cultural Resource Survey and Report: *Completed*

- Two sites identified and are to be avoided

Noise Study (also under NEPA): *Completed*

- Models based on receptor data predict future max 62 dBA, max increase of 2 dBA AG0
- Noise mitigation not warranted (< 67 total and 10 dBA increase Noise Abatement Criteria)

Initial Site Assessment (ISA): *In Progress*

- Necessitated by proximity to landfill - field work (soil testing) completed, report in review – no hazards found

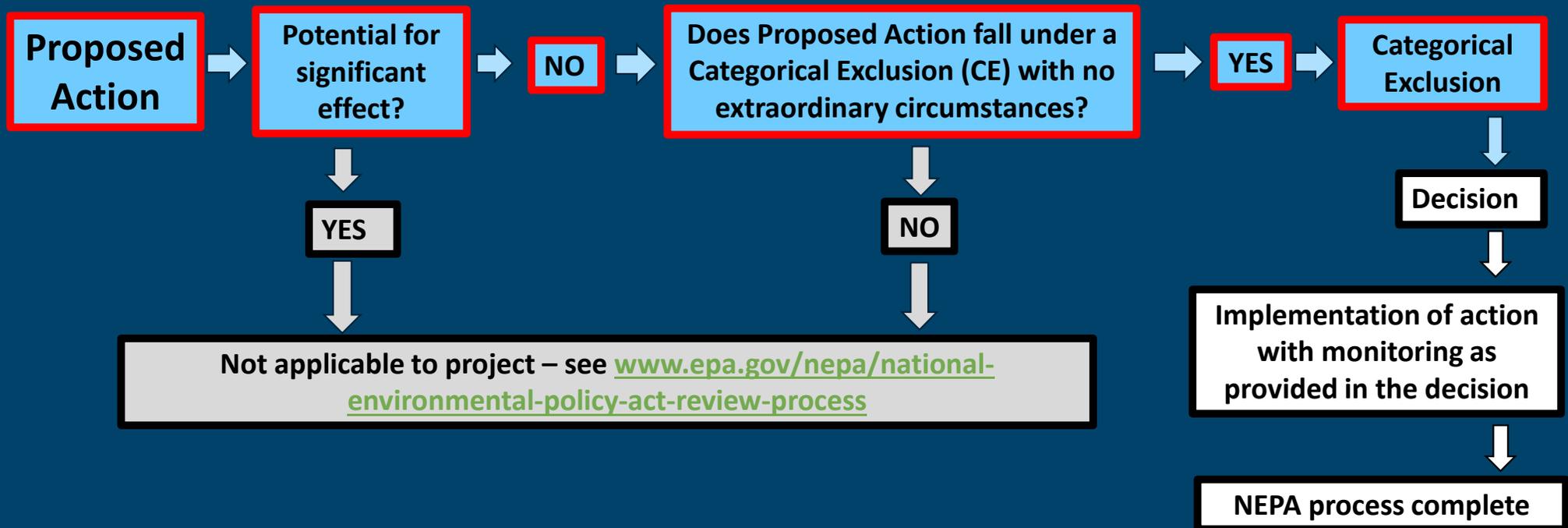
NEPA Procedures

Categorical Exclusion: *In Progress*

- Pending ISA completion



National Environmental Policy Act (NEPA) Process



IDALIA ROAD PHASE II FINAL DESIGN



Current Project Schedule

- Existing Conditions Analysis – December 2021
 - Public Meeting No. 1 (December 16th, 2021)
- Phase I-A (Initial Screening of Alternatives) – Spring 2022
 - Public Meeting No. 2 (May 4th, 2022)
- Phase I-B (Detailed Evaluation of Alternatives and Recommendations) – Summer 2022
- Final Phase I-A/B Report – Submitted Summer 2022
- Final Design – To be Completed in Summer 2025
 - Public Meeting No. 3 (December 11th, 2024)
- Right-of-Way Mapping to be Submitted in Spring 2025
- Construction - TBD
 - No Funding yet Identified for Right-of-way Acquisition or Construction

QUESTIONS OR COMMENTS?



Call Us

505-348-5203

Email Us

Megan.Rabinowich@nv5.com

Mail Us

NV5

Attn. Megan Rabinowich

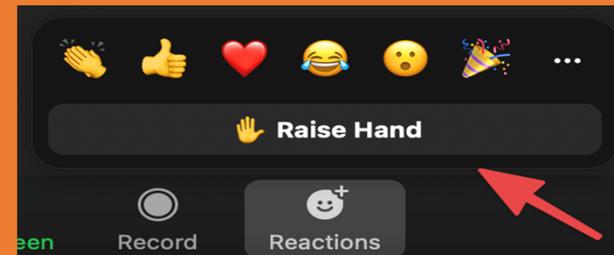
6501 Americas Parkway, Suite 400

Albuquerque, NM 87110

Comment deadline is:

January 8, 2025

- If you have a question about the project, please raise your virtual hand and the moderator will call on you. Please be respectful.
 - ❖ To raise your hand: Go to the reactions button at the bottom of the screen and select "Raise Hand" (phone call ins press *9 to raise hand)



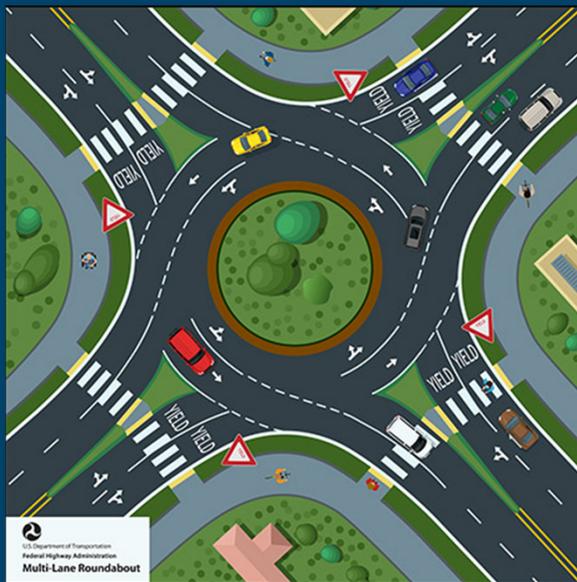
- If you feel more comfortable typing your question, our moderator will be fielding questions from the discussion window.
- If you have any additional questions after the meeting, please use the contact information on this slide.

IDALIA ROAD PHASE II FINAL DESIGN ROUNDBABOUT EDUCATION

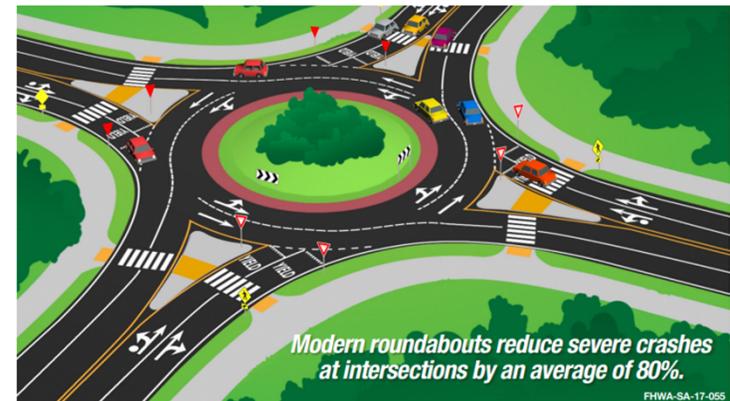
FHWA Education and Information

FHWA Website:

<https://highways.dot.gov/safety/intersection-safety/intersection-types/roundabouts>



Do you know the rules of the roundabout?



1 Slow Down.

A roundabout is a circular intersection design where traffic travels at low speed around a central island and entering traffic must yield to circulating traffic. Roundabouts are safer and more efficient than traditional intersections.

2 Look Around.

The geometry of a roundabout is key to controlling the speed at which traffic enters and maneuvers through the intersection, providing the following benefits:

3 Be Ready to Yield.

- Lower severity of collisions that may occur, resulting in significantly fewer severe injuries.
- Increased likelihood of drivers yielding to