

# ARROYO DE LOS CHAMISOS CROSSING

*Public Information Meeting*



CITY OF  
**Santa Fe**

*March 10, 2020*



# PROJECT TEAM INTRODUCTIONS

## → City of Santa Fe

- John Romero, PE, Engineering Division Director
- District 4 Councilor JoAnne Vigil Coppler
- District 4 Councilor Jamie Cassutt – Sanchez
- District 4 Former Counselor Michael Harris

## → Santa Fe Metropolitan Planning Organization

- Erick Aune, AICP, MPO Officer
- Leah Yngve, MPO Planner
- Hannah Burnham, MPO Planner Technician

CITY OF SANTA FE

### ARROYO DE LOS CHAMISOS CROSSING

Initial Evaluation of Alternatives  
Phase "A" Report



wsp

wsp

# PROJECT TEAM INTRODUCTIONS

CITY OF SANTA FE

## ARROYO DE LOS CHAMISOS CROSSING

Initial Evaluation of Alternatives  
Phase "A" Report



wsp

### → WSP

- Richard Rotto, PE

### → Bohannon Huston

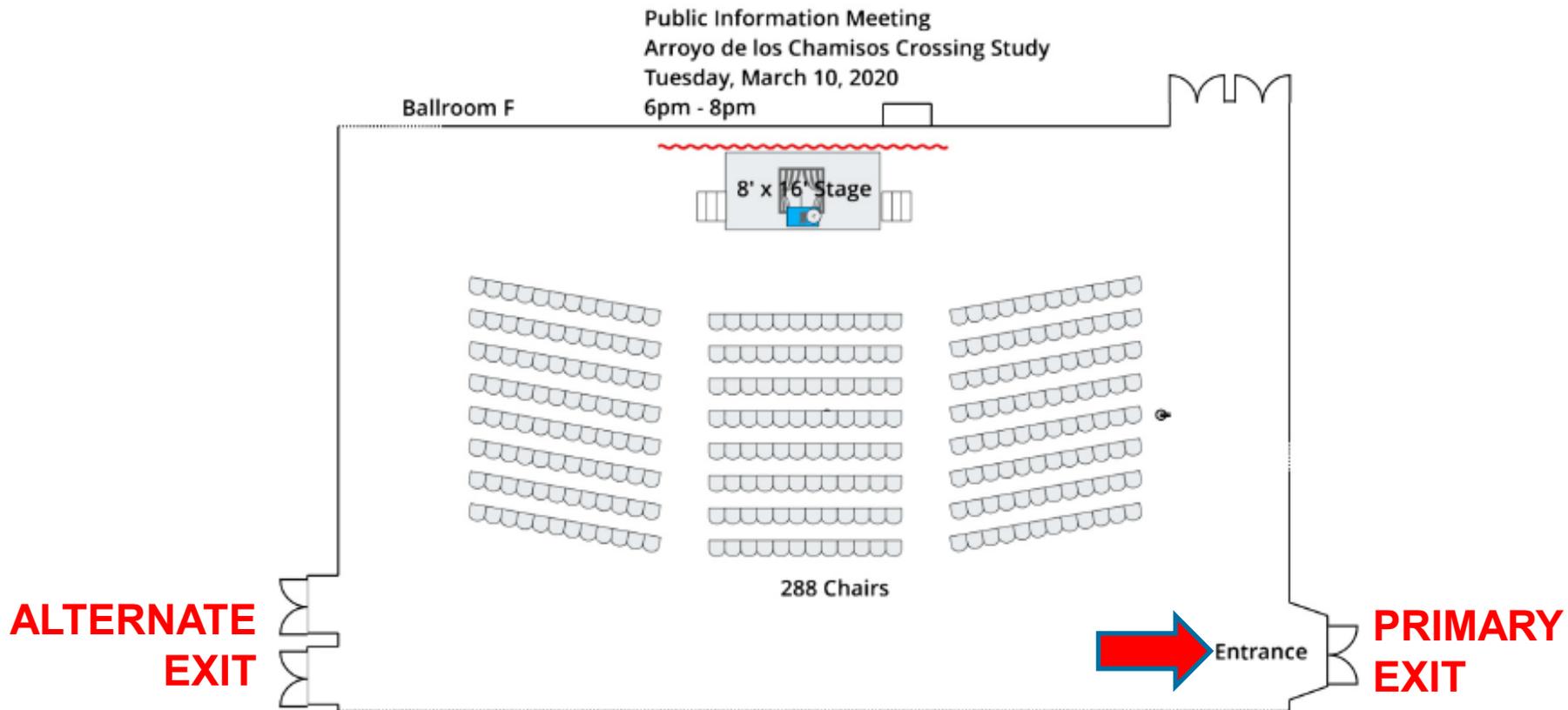
- Albert Thomas, PE
- Eric Wrage, PE
- Denise Aten
- Melanie Bishop

### → Pathfinder Environmental

- Devin Kennemore

wsp

# SAFETY BRIEFING / EMERGENCY EXIT



# PROJECT PHASES

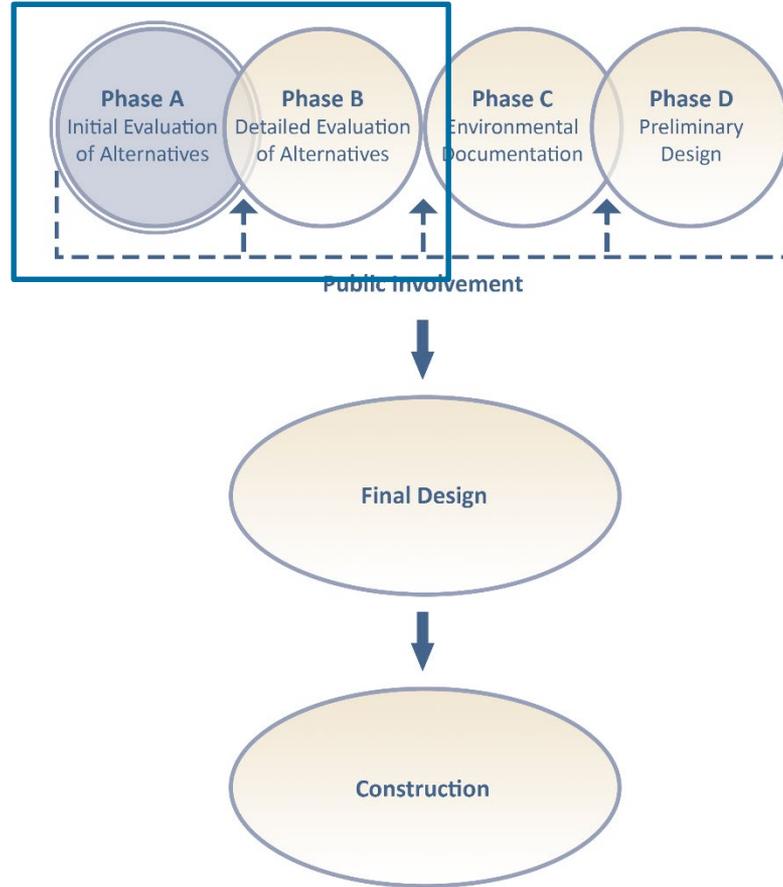
**Scope of Work** limited to **Phase A & B**

## Phase A

- July 2, 2019  
*Kick Off Public Meeting*
- December 4, 2019  
*Draft Phase A Report*
- March 10, 2020  
*Public Meeting*
- April 2020  
*Final Phase A Report*

## Phase B

- July 2020  
*Draft Phase B Report*
- August 2020  
*Public Meeting*
- September 2020  
*Final Phase B Report*
- Submit Recommendations to  
*City Council*



# NMDOT Location Study Process

Phase A

Phase B

Phase C

*Initial Evaluation of Alternatives*

*Detailed Evaluation of Alternatives*

*Environmental*

Establish Purpose & Need  
Establish Existing Conditions  
Identify Potential Alternatives  
Initial Evaluation of Alternatives

Engineering Investigations  
Environmental Investigations  
Conceptual Design  
Detailed Evaluation of Alternatives

Issues Identification  
Alternative Solutions  
Environmental Investigations  
Environmental Documentation

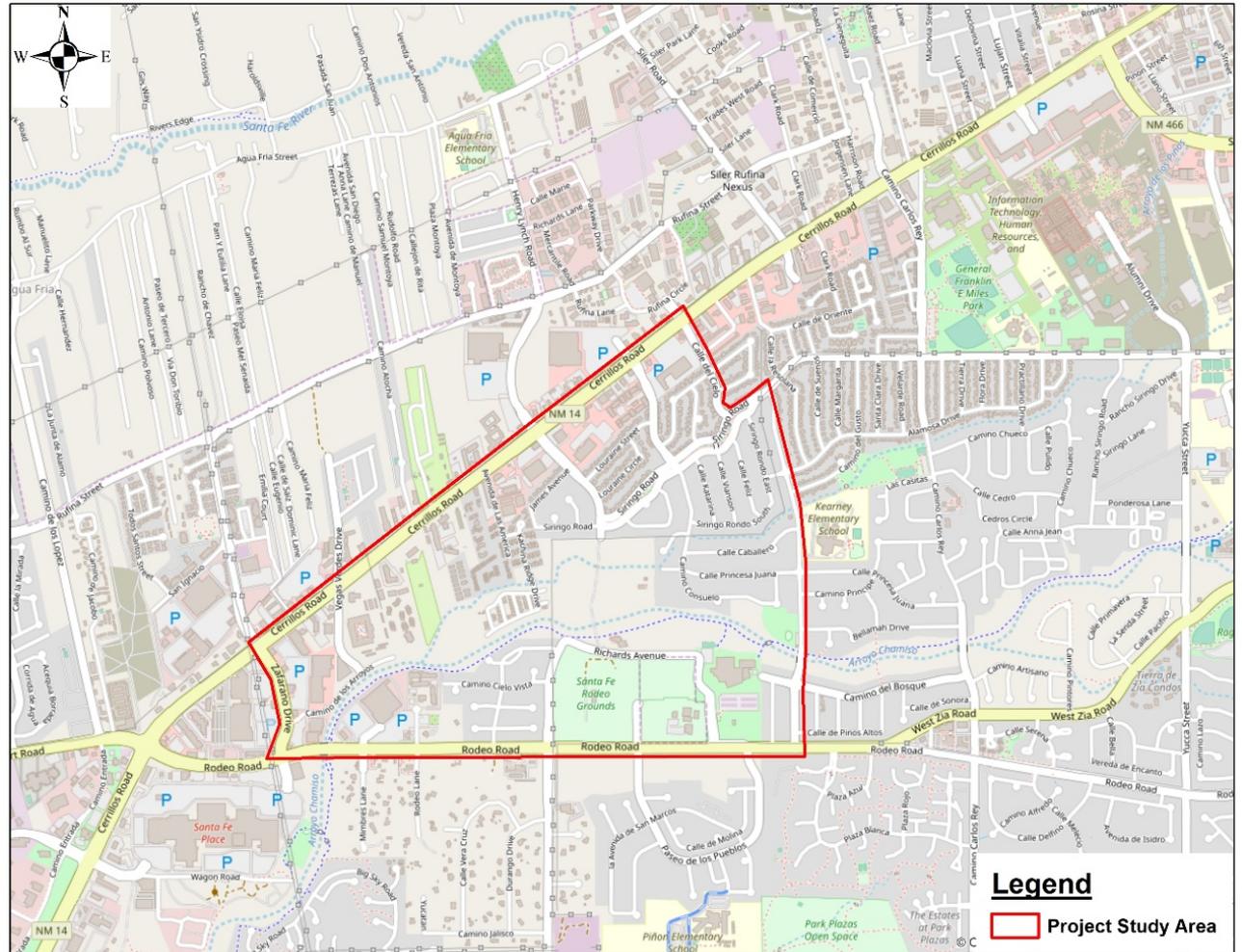
*Public Outreach*

NEPA Compliance

# PROJECT STUDY AREA

Study Area is bound by:

- Rodeo Road
- Cerrillos Road
- Zafarano Road
- Avenida de Las Campanas



## ARROYO AS A PHYSICAL DETERRENT



- Deterrent to north-south traffic moving through the study area
  
- North-south traffic must use:
  - Rodeo Road,
  - Zafarano Drive,
  - Avenida de Las Campanas, and
  - Camino Carlos Rey

## Phase A

### *Initial Evaluation of Alternatives*

Establish Purpose & Need  
Establish Existing Conditions  
Identify Potential Alternatives  
Initial Evaluation of Alternatives

# PURPOSE AND NEED

## PROJECT PURPOSE AND NEED

### **The purpose...**

→ Enhance the transportation system within Santa Fe

### **The need...**

→ Improve regional connectivity and reduce congestion and overall impacts on local roads

# EXISTING CONDITIONS

# EXISTING POSTED SPEED AND ROADWAY WIDTHS

STREET NAME	POSTED SPEED	BIKE LANE	ROAD WIDTH	BIKE LANE	TOTAL WIDTH
Vegas Verde Drive	25 mph	-	30'-0"	-	30'-0"
Camino de los Arroyos (east)	25 mph	-	30'-0"	-	30'-0"
Camino de los Arroyos (west)	25 mph	4'-0"	20'-0"	4'-0"	28'-0"
Kachina Ridge Drive	25 mph	-	25'-8"	-	25'-8"
Avenida de Las Americas	25 mph	-	29'-4"	-	29'-4"
Richards Avenue (south)	25 mph	4'-0"	40'-0"	4'-0"	48'-0"
Richards Avenue (north)	25 mph	-	36'-0"	-	36'-0"
Camino Consuelo	25 mph	-	30'-0"	-	30'-0"

# TRAFFIC CALMING FEATURES



Crosswalk with Median



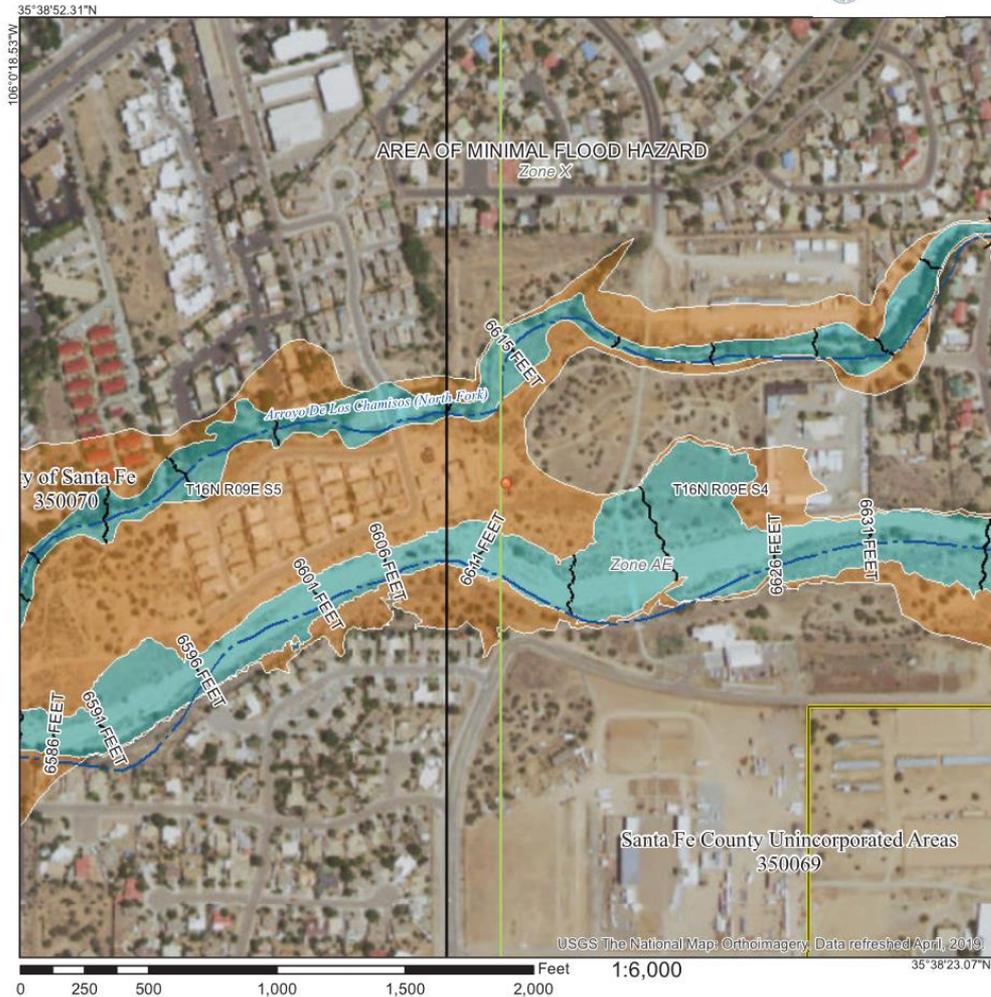
Speed Humps



# National Flood Hazard Layer FIRMette



## FEMA FLOOD INSURANCE RATE MAP



### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

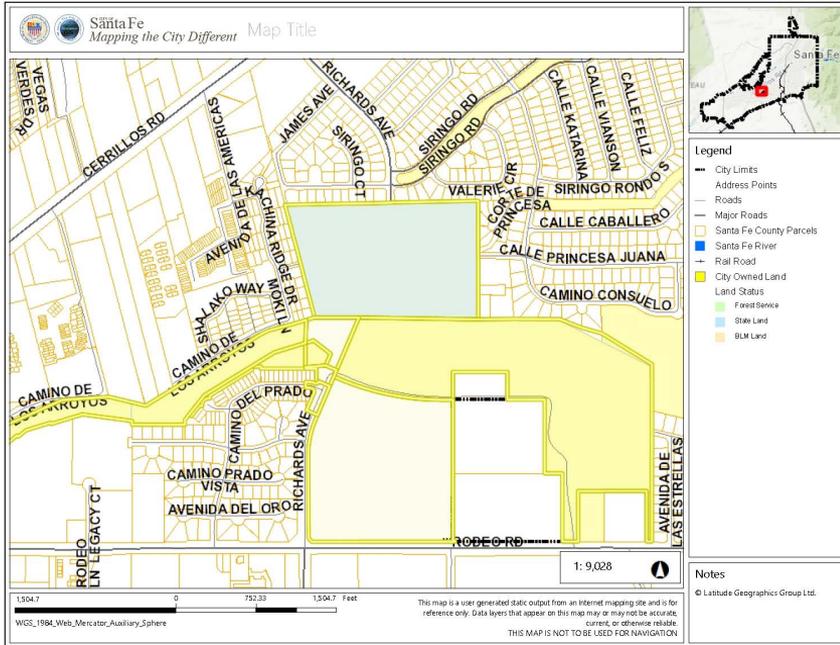
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
OTHER AREAS OF FLOOD HAZARD		Area with Flood Risk due to Levee Zone D
		Area of Minimal Flood Hazard Zone X
OTHER AREAS		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
OTHER FEATURES		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/4/2019 at 5:08:41 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

# PROPERTY OWNERSHIP



PARCEL OWNER	PARCEL NO.	PARCEL AREA
City of Santa Fe	99306767	40.65 acres
Rodeo de Santa Fe, Inc.	970002591	2.12 acres
Rodeo de Santa Fe, Inc.	970002592	0.65 acres
Vista Del Prado Subdivision	99306764	11.26 acres
Vista Del Prado Subdivision	99306766	1.43 acres
New Mexico Game & Fish Dept.	970002442	23.08 acres
State Parks Division of EMNRD	970002442	3.073 acres

Source: City of Santa Fe GIS available at <https://www.santafenm.gov/gis>



# PUBLIC OUTREACH AND ENVIRONMENTAL

# PUBLIC OUTREACH SUMMARY

**RESCHEDULED**  
**PUBLIC INFORMATION MEETING**

**Santa Fe Community Convention Center**  
201 W Marcy St, Santa Fe, NM

 **Tuesday, March 10, 2020**  
**6:00 to 8:00 PM**

*The City of Santa Fe invites you to a public information meeting for the Arroyo de los Chamiños Crossing Study - Phase A*

**Meeting location change:**

- Santa Fe Convention Center, Sweeney Ballroom F
- Free parking in the Convention Center Parking Garage

The City of Santa Fe is conducting a public meeting to collect input on the preferred alternatives evaluated in Phase A of the Arroyo de los Chamiños Crossing Study. The Study evaluates the transportation needs to enhance connectivity across the Arroyo de los Chamiños.

The purpose of the public meeting is to provide a project update, review the Phase A analysis, and collect comments and concerns on the preferred alternatives. The Phase A Report can be viewed at: [https://www.santafenm.gov/arroyo\\_chamiso\\_crossing](https://www.santafenm.gov/arroyo_chamiso_crossing)

To request Americans with Disabilities Act (ADA) related accommodations for the meeting, contact Melanie Bishop at [mbishop@blhinc.com](mailto:mbishop@blhinc.com) at least two days before the meeting. Para información en español contacte (505)923-3341.

Written comments will be accepted at the public information meeting, or they may be mailed to **Melanie Bishop, Bohannon Huston Inc, 7500 Jefferson St. NE, Albuquerque, NM 87109**, phoned to (505) 923-3340, emailed to [mbishop@blhinc.com](mailto:mbishop@blhinc.com), or faxed to (505)798-7988.



**Project Study Area**

- Over 800 postcards mailed to adjacent properties (ENN)
- Registered Neighborhood Associations contacted
- Nine (9) street sign postings
- Emailed to previous meeting attendees
- Emailed to project contact list, community organizations, and County registered organizations
- Posted on City of Santa Fe and Santa Fe Metropolitan Planning Organization (MPO) websites
- Posted on social media (Nextdoor)
- Posted on Facebook
- Sent to the Santa Fe Community College
- Articles in the local newspapers
- Additional community notices



# NMDOT Location Study Process

## Phase A

### *Initial Evaluation of Alternatives*

Establish Purpose & Need  
Establish Existing Conditions  
Identify Potential Alternatives  
Initial Evaluation of Alternatives

## Phase B

### *Detailed Evaluation of Alternatives*

Engineering Investigations  
Environmental Investigations  
Conceptual Design  
Detailed Evaluation of Alternatives

## Phase C

### *Environmental*

Issues Identification  
Alternative Solutions  
Environmental Investigations  
Environmental Documentation

### *Public Outreach*

NEPA Compliance

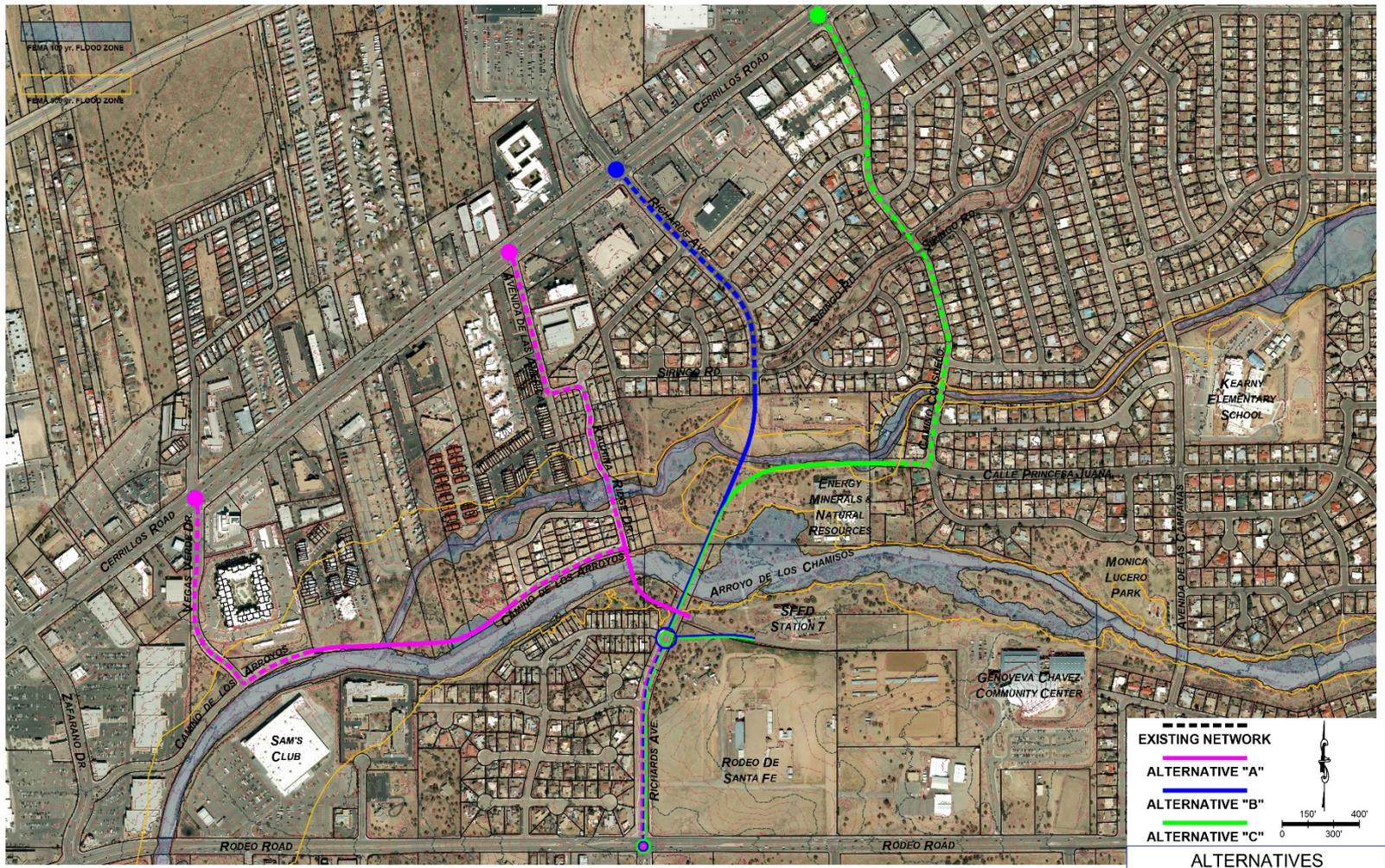
# ENVIRONMENTAL SUMMARY



# DESCRIPTION OF ALTERNATIVES

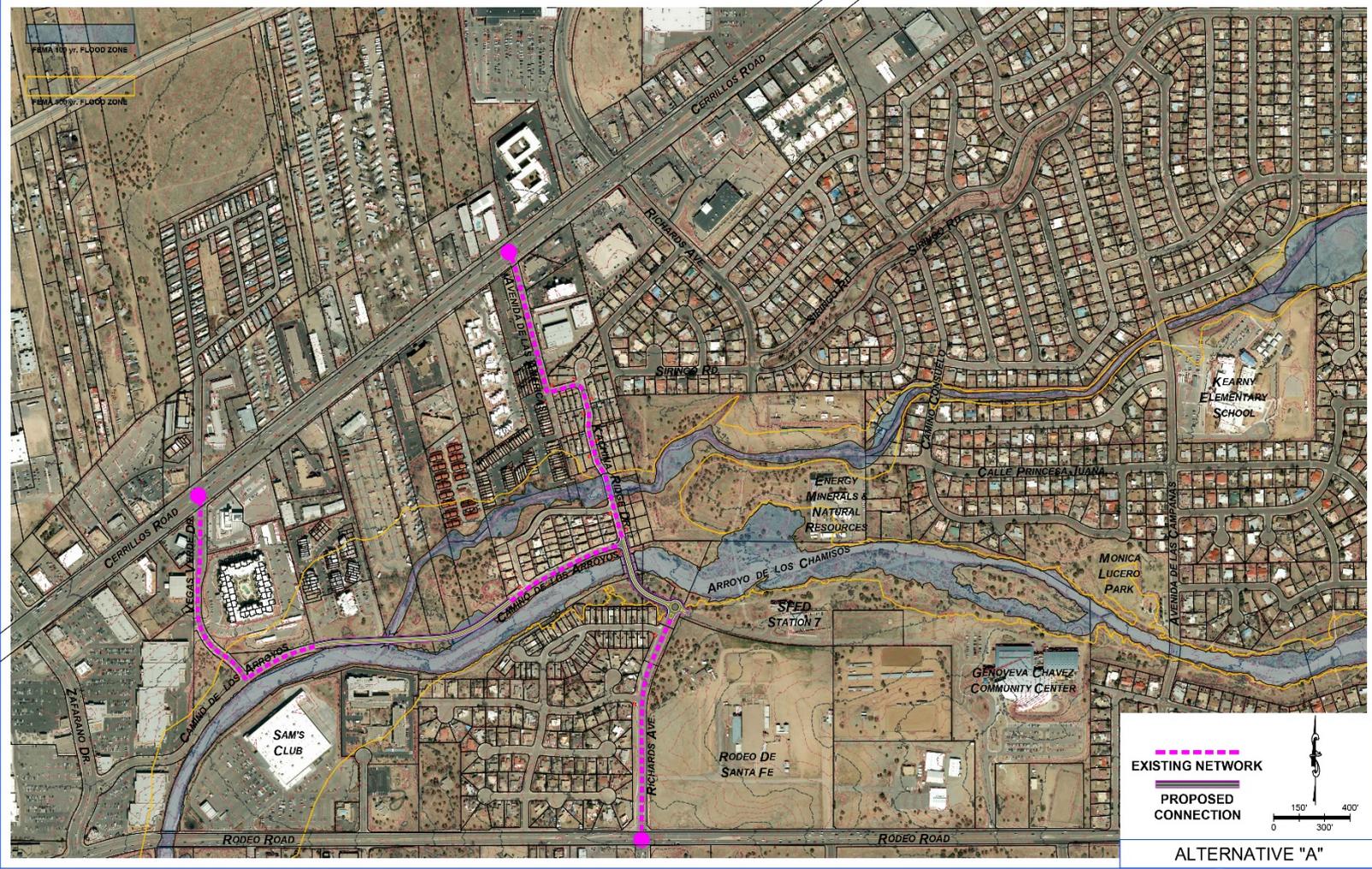
## EVALUATED ALTERNATIVES

- No-Build Alternative
- Three Build Alternatives
  - Alternative A
  - Alternative B
  - Alternative C

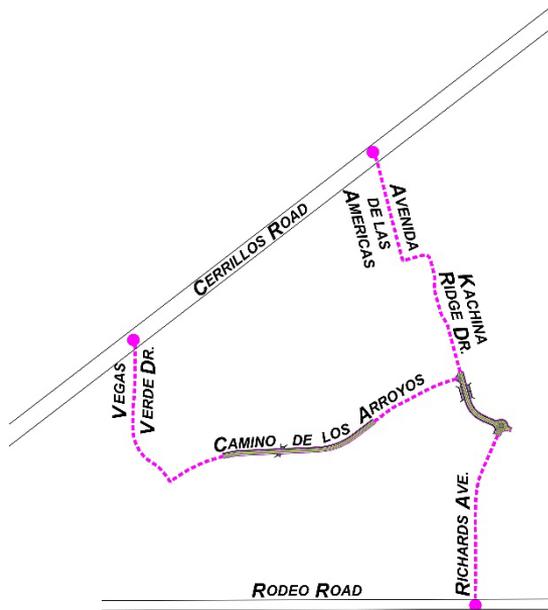


# NO-BUILD ALTERNATIVE

- Serves as the benchmark for other alternatives
- No new construction
- Pedestrian and vehicular traffic would continue to use the existing crossing locations
- No change to emergency access for Fire Station 7 across the Arroyo de Los Chamisos



# ALTERNATIVE “A”



- Builds two new roadway segments
  - Connects Richards Avenue to the Camino de Los Arroyos / Kachina Ridge Drive Intersection
  - Extends Camino de Los Arroyos west to Vegas Verdes Drive and Cerrillos Road
- Provides a route to the Vegas Verdes / Cerrillos Road signalized intersection
- Maintains existing access to the Camino de Las Americas / Cerrillos Road signalized intersection
- No change to emergency access for Fire Station 7 across the Arroyo de Los Chamisos



ALTERNATIVE "B"

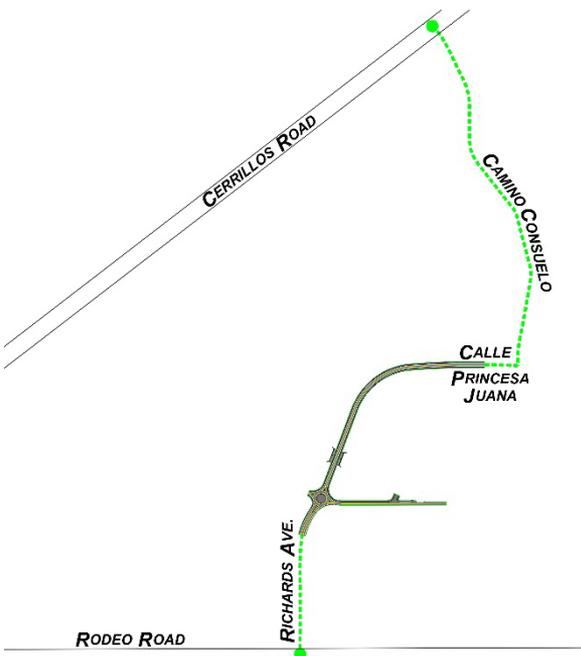
## ALTERNATIVE “B”



- Builds two new roadway segments
  - Connects Richards Avenue to the Richards Avenue / Siringo Road Intersection
  - Realigns intersection leg to Fire Station 7
- Provides a route to the Richards Avenue / Cerrillos Road signalized intersection
- Replaces emergency access road for Fire Station 7 across the Arroyo de Los Chamisos with a new all-weather crossing



## ALTERNATIVE “C”



- Builds two new roadway segments
  - Connect Richards Avenue to the Calle Princesa Juana / Camino Consuelo Intersection
  - Realigns intersection leg to Fire Station 7
- Provides a route to the Camino Consuelo / Cerrillos Road signalized intersection
- Replaces emergency access road for Fire Station 7 across the Arroyo de Los Chamisos with a new all-weather crossing

# ENGINEERING FACTORS

# DESIGN CRITERIA FOR A COLLECTOR

DESIGN ELEMENT	DESIGN CRITERIA
Lane Widths	10 to 12 ft
Design Speed	20 to 40 mph
Minimum Radius at 25 mph	167 ft
Maximum Grade	9 percent
Stopping Sight Distance at 25 mph	155 ft

# EVALUATION OF ALTERNATIVES

DESIGN CRITERIA	NO BUILD	ALTERNATIVE "A"	ALTERNATIVE "B"	ALTERNATIVE "C"
Lane Widths of 10 to 12 ft	N/A	Pass	Pass	Pass
Design Speed of 25 mph	N/A	Fail	Pass	Fail
Minimum Radius at 25 mph	N/A	Fail	Pass	Fail
Maximum Grade of 9 percent	N/A	Pass	Pass	Fail
Stopping Sight Distance at 25 mph	N/A	Fail	Pass	Fail

# DRIVEWAY ACCESS

- Alternative “A”
  - 7 shared driveways with direct access to Kachina Ridge
  - Serves 44 single family residences
  
- Alternative “B”
  - 11 driveways with direct access to Richards Avenue
  - Serves 11 single family residences
  
- Alternative “C”
  - 42 driveways with direct access to Camino Consuelo
  - Serves 42 single family residences

# PROPERTY OWNER IMPACTS

PARCEL OWNERS	NO-BUILD	ALT "A"	ALT "B"	ALT "C"
City of Santa Fe	Base Line	No	No	No
Rodeo de Santa Fe, Inc.	Base Line	Yes	Yes	Yes
Rodeo de Santa Fe, Inc.	Base Line	Yes	Yes	Yes
Vista Del Prado Subdivision	Base Line	Yes	No	No
Vista Del Prado Subdivision	Base Line	Yes	No	No
New Mexico Game & Fish Dept.	Base Line	No	Yes	Yes
New Mexico State Parks	Base Line	No	No	Yes

# CONSTRUCTION COSTS

- All build alternatives construct approximately equal lengths of new roadway
- Crossing the Arroyo de Los Chamisos requires similar drainage improvements
- All alternatives would require Rodeo Road and Cerrillos Road intersection modifications.
- Costs are considered comparable between the three build alternatives

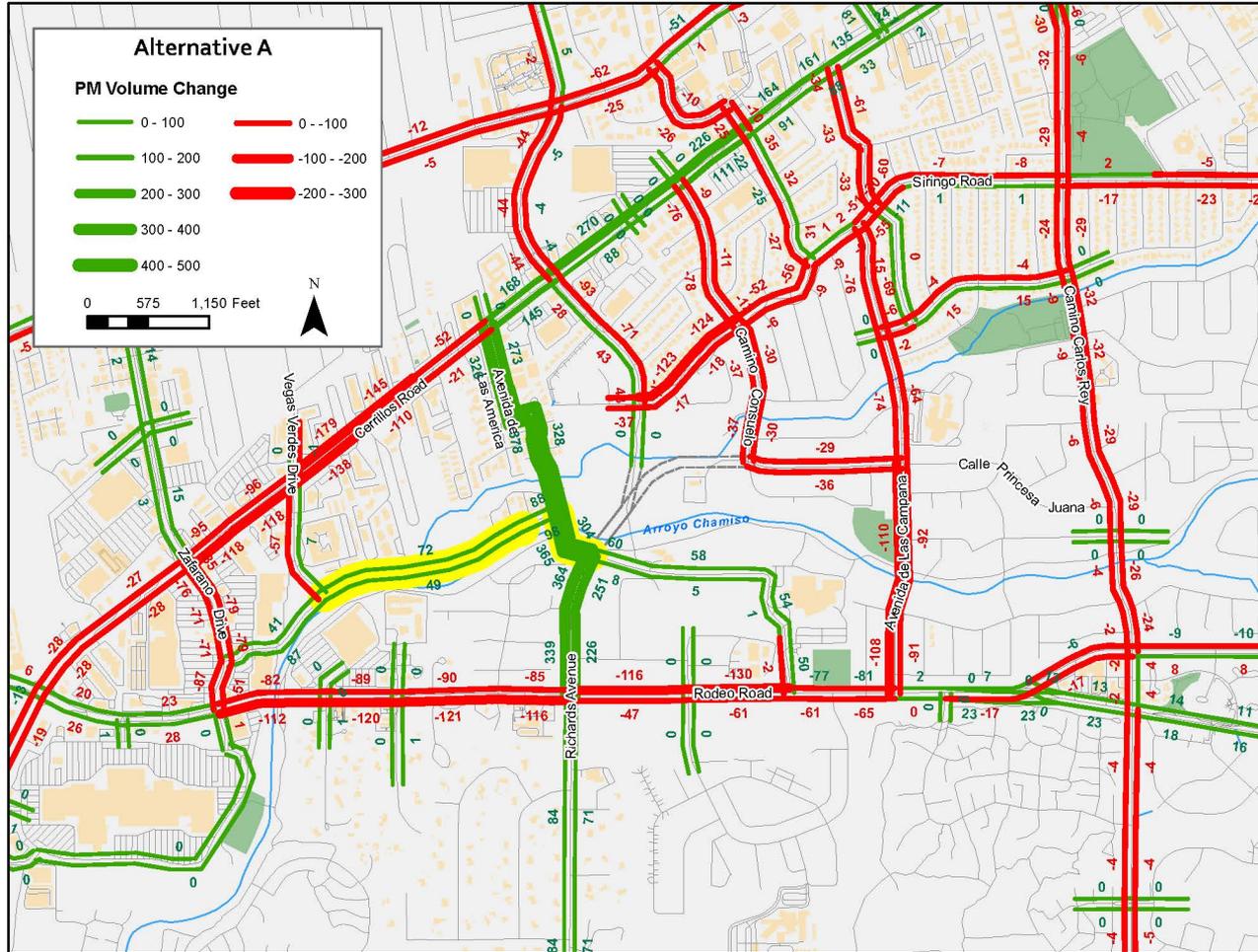
# TRAFFIC ANALYSIS

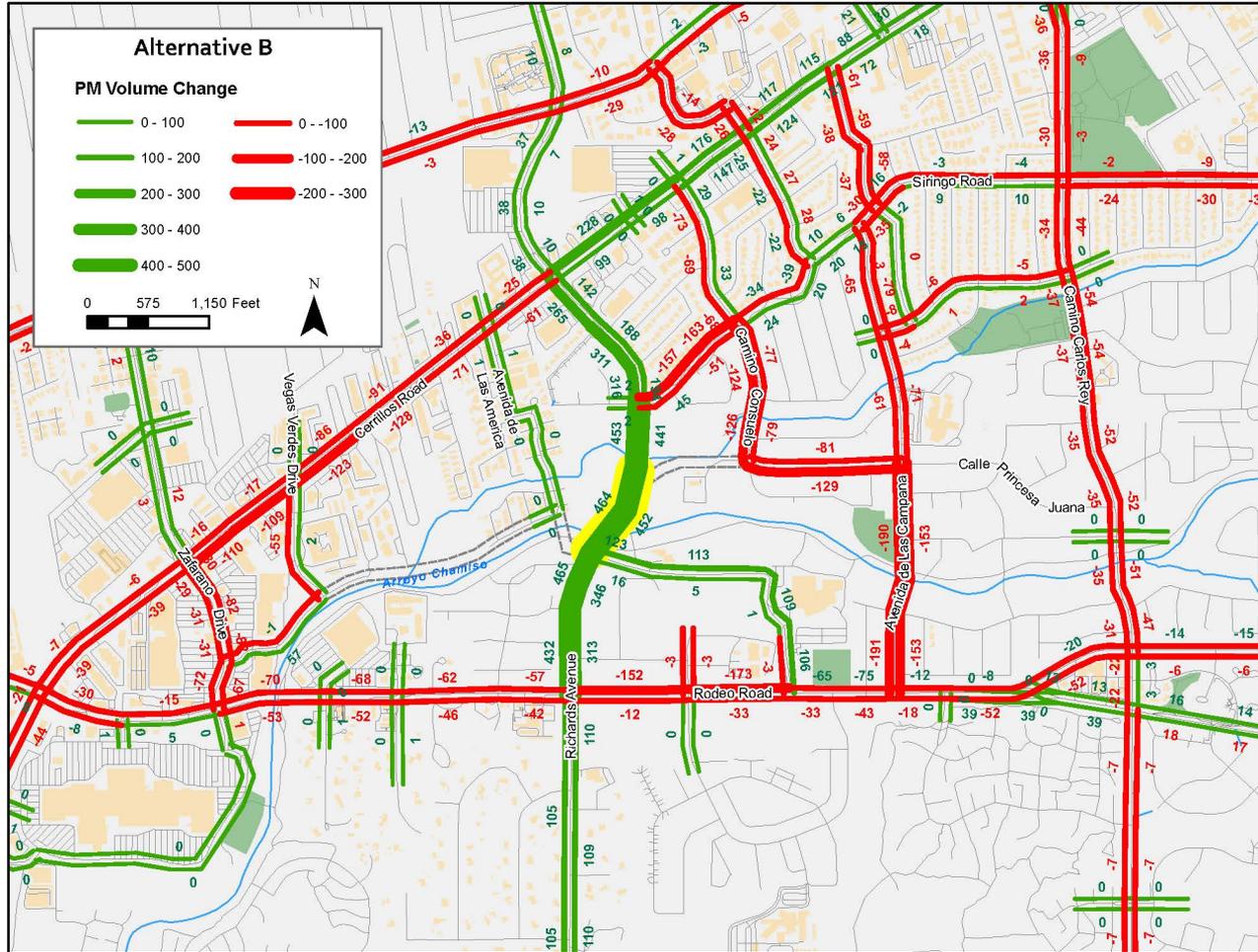
# INTENT OF PHASE A TRAFFIC ANALYSIS

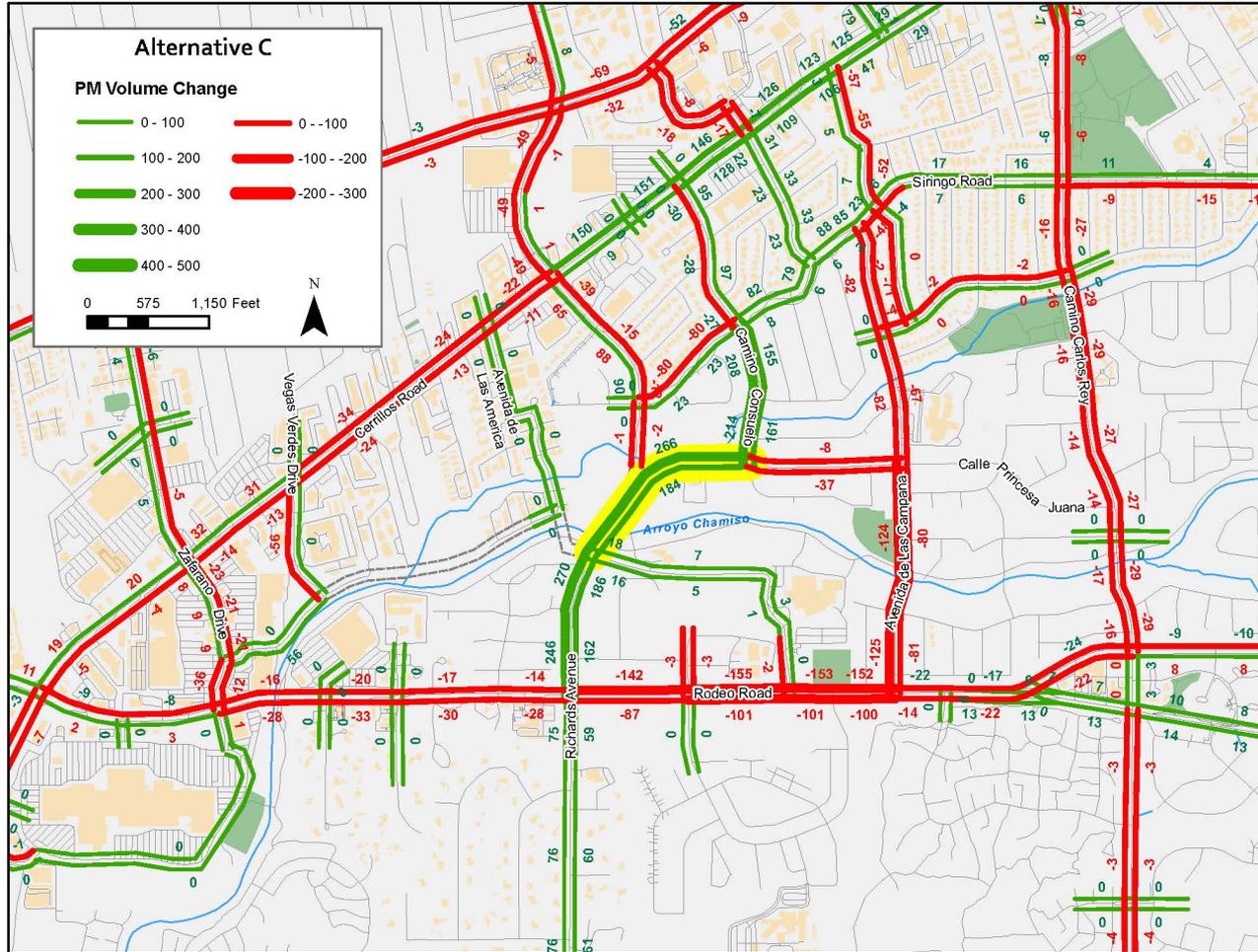
- Santa Fe Metropolitan Planning Organization  
Regional Travel Demand Model
- Evaluate regional connectivity of the transportation  
system within Santa Fe
- Evaluate traffic reduction on parallel routes

# SANTA FE MPO REGIONAL TRAVEL DEMAND MODEL

- Based on the existing roadway network, where people live, and where people work
- Includes forecast of travel patterns
- Calibrated for current count data. Thirteen new tube counts for this project
- Represents relative impacts
- Results show the changes in traffic volumes based on the alternatives







# TRAFFIC ANALYSIS CONCLUSIONS

## PURPOSE

To enhance the transportation system within Santa Fe

## NEED

Improve regional connectivity and reduce congestion and overall impacts on local road

- Alternative B is the preferred alternative
  - Provides the greatest benefit to the regional transportation system
  - Decreases traffic volumes on Avenida de las Campanas, Camino Carlos Rey, Zafarano, and Vegas Verdes
  - Meets the purpose and need

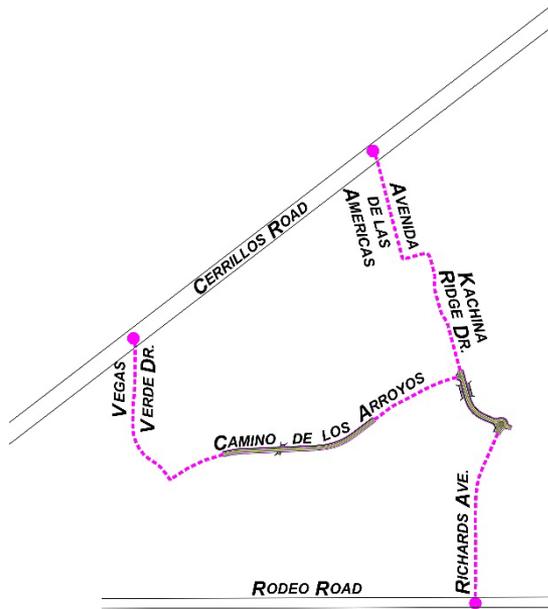
# INITIAL SCREENING ANALYSIS

# INITIAL SCREENING MATRIX

FACTOR	NO-BUILD	ALT "A"	ALT "B"	ALT "C"
Meets Purpose and Need	--	+	++	+
Geometric Design	0	--	++	--
Reduce Traffic on Local Roads	--	+	++	+
Reduce Travel Time	0	++	++	+
Driveway Access	0	--	-	--
Constructability	0	-	0	0
Drainage	0	0	0	0
Right-of-Way	0	--	-	-
Construction Cost	0	0	0	0
<b>Total</b>	<b>-4</b>	<b>-3</b>	<b>+6</b>	<b>-2</b>

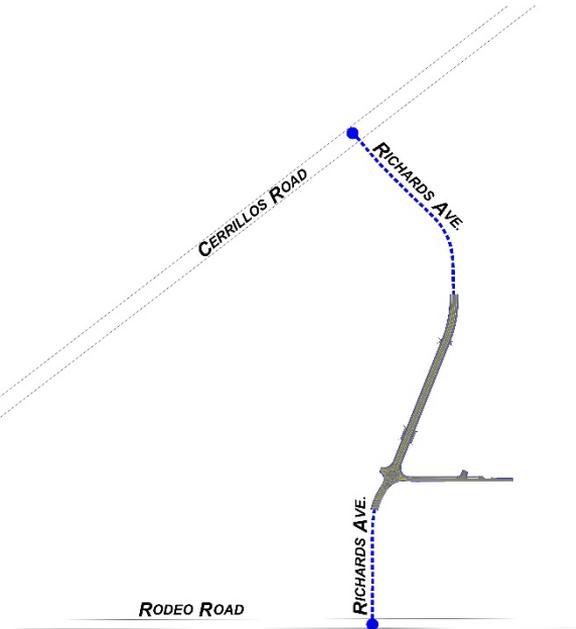
- ++ = very positive (2 points)
- + = positive (1 point)
- 0 = comparable (0 points)
- = negative (-1 points)
- = very negative (-2 points)

# ALTERNATIVE “A” CONCLUSIONS



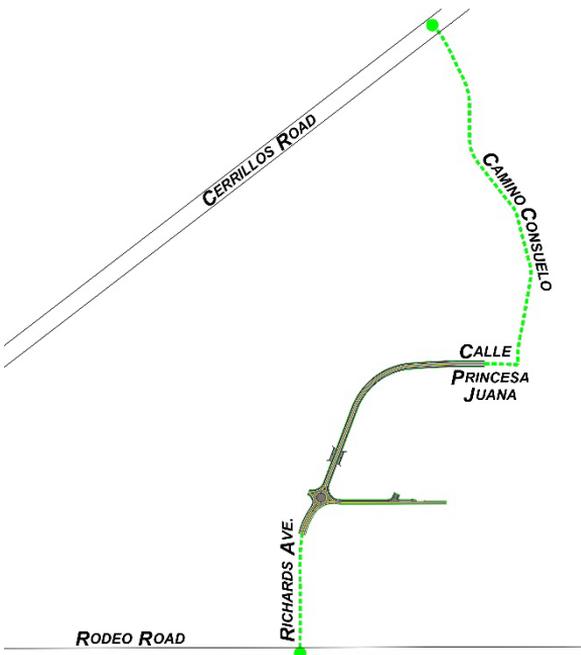
- Has several significant geometric design deficiencies on Kachina Ridge (10 mph design speed), abrupt direction changes and physical limitations at the Cerrillos Road / Avenida de Las Americas Intersection.
- Traffic modeling suggests that traffic would prefer to utilize Avenida de Las Americas and Kachina Ridge Drive in lieu of Vegas Verdes.
- 4 parcels affected by right-of-way needs
- Has significant driveway access impacts to more than 44 residences along Kachina Ridge Drive

# ALTERNATIVE “B” CONCLUSIONS



- No horizontal geometric design deficiencies
- 3 parcels affected by right-of-way needs
- Provides the greatest benefit to the regional transportation system
- Provides the greatest reduction of traffic from the local roads
- Has driveway access impacts for 11 residences along Richards Avenue

# ALTERNATIVE “C” CONCLUSIONS



- Has a couple significant geometric design deficiencies (10 mph design speed) and a high number of existing speed humps along Camino Consuelo.
- 4 parcels affected by right-of-way needs
- Has significant driveway access impacts with 42 residences along Camino Consuelo

# RECOMMENDATIONS

## PURPOSE

To enhance the transportation system within Santa Fe

## NEED

Improve regional connectivity and reduce congestion and overall impacts on local road

→ Advance No-Build Alternative

→ Eliminate Alternative “A”

→ Advance Alternative “B”

→ Eliminate Alternative “C”

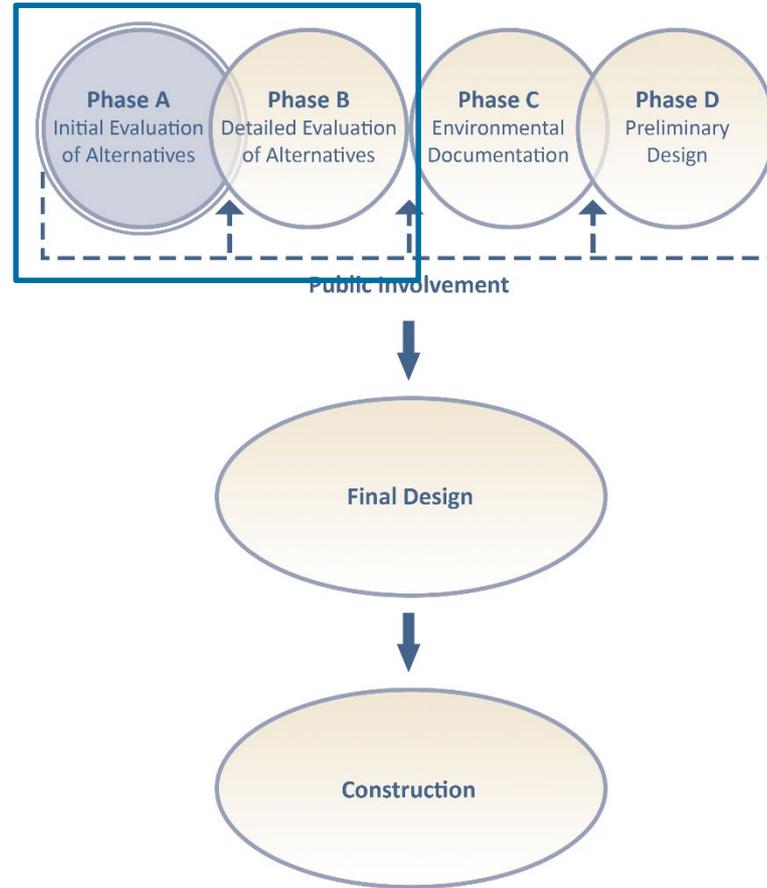
# NEXT STEPS

## Phase A

- *March 2020*  
**Compile Comments**
- *April 2020*  
**Final Phase A Report**

## Phase B

- *July 2020*  
**Draft Phase B Report**
- *August 2020*  
**Public Meeting**
- *September 2020*  
**Final Phase B Report**
- **Submit Recommendations to City Council**



## QUESTIONS AND COMMENTS / RULES OF ENGAGEMENT

- Please register on a card to speak
- When speaking
  - Please be brief
  - Direct comments/questions to project team
- Only speak when called upon
- Please be respectful
- Written comments will also be accepted

### **PURPOSE**

To enhance the transportation system within Santa Fe

### **NEED**

Improve regional connectivity and reduce congestion and overall impacts on local road