

# Portola Hills Traffic Workshop 2

November 15, 2012



One Team. Infinite Solutions



**Stantec**

# Discussion of Issues

1. Results of Traffic/Community Concerns
2. Community Issues
  - Saddleback Ranch Road Sight Distance
  - Portola Hills Elementary School
3. Project Access Location Alternatives

# Results of Traffic/Community Concerns

A. Traffic Counts

B. Trip Generation Rate

C. Project Trip Distribution

D. Cut-Through Traffic

E. Future Growth

F. Safety Review

(accident history and “near misses”)

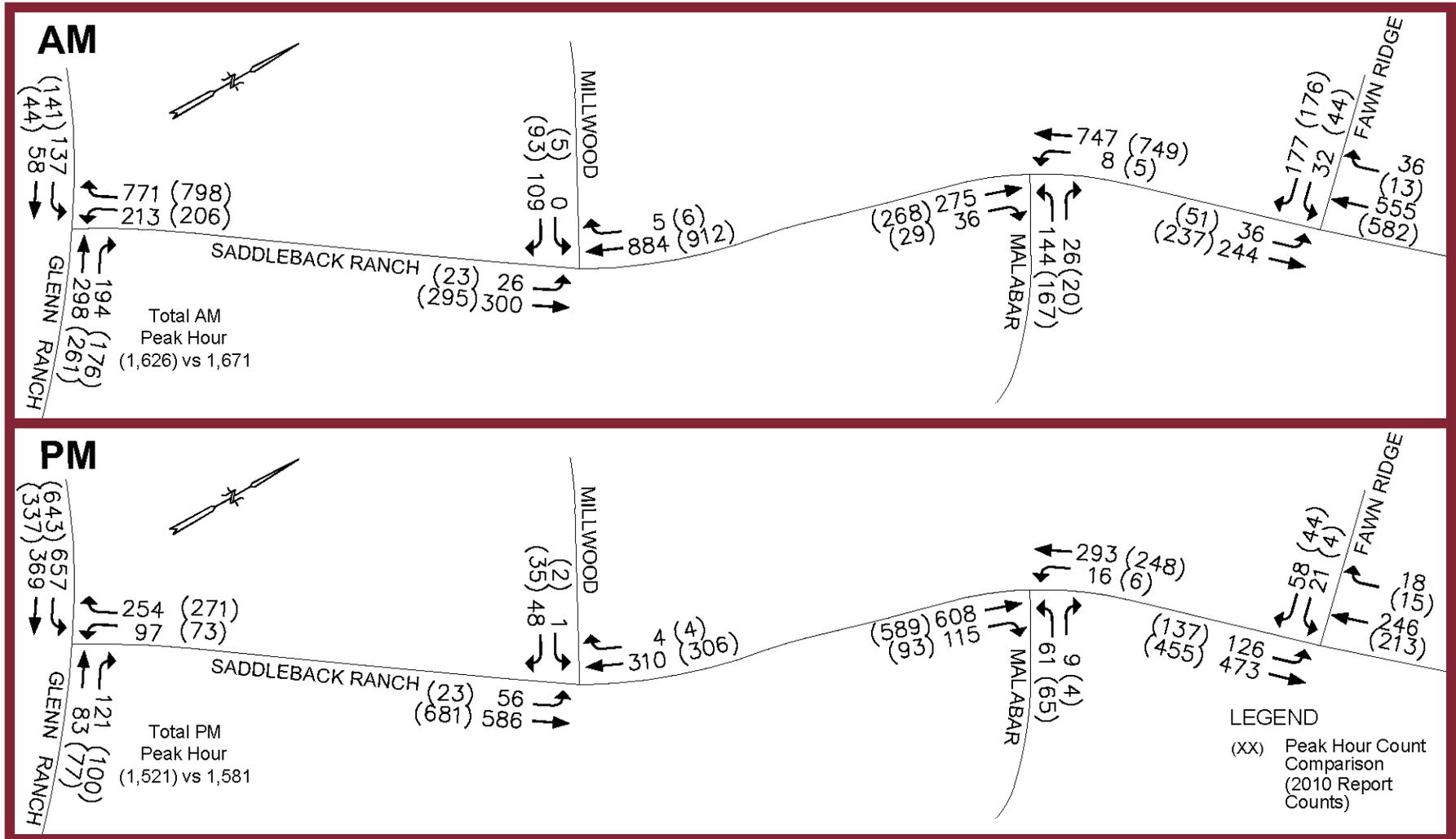
G. Traffic Study Peer Review

(at a later date)

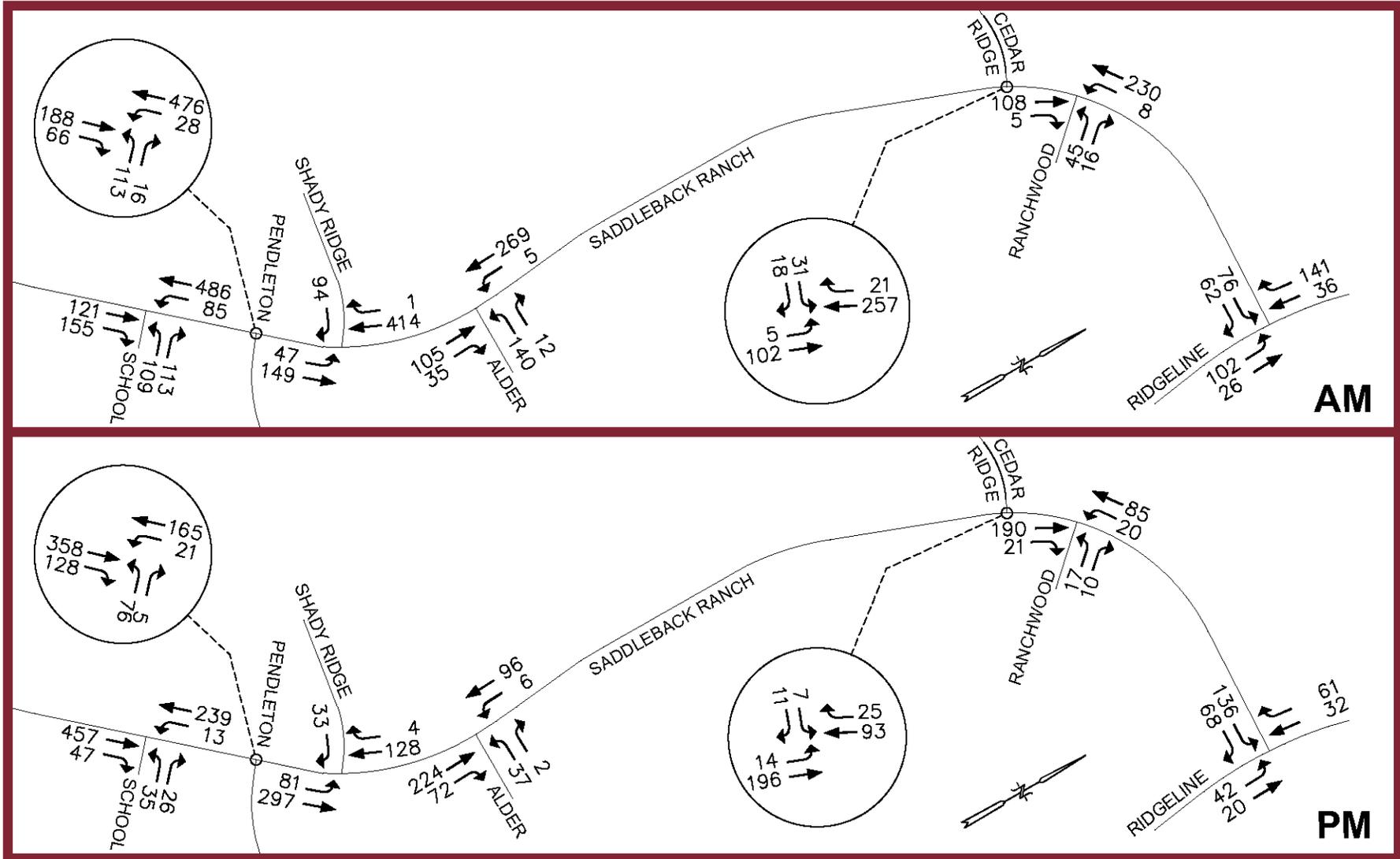
# Traffic Counts (2010 versus 2012) on Saddleback Ranch Road

- Average Daily Traffic (ADT)  
12,800 versus 13,200 (+3%)
- Peak Hour Volumes, Vehicles Per Hour (vph)  
AM 1,626 vph versus 1,671 vph (+3%)  
PM 1,521 vph versus 1,581 vph (+4%)

# Existing Peak Hour Volumes – South SRR



# Existing Peak Hour Volumes – North SRR



# Trip Generation Rate

- Institute of Transportation Engineers (ITE) 9<sup>th</sup> Edition ADT Rate for single family detached (SFD) 9.52
- Portola Center Traffic Study Rate for SFD 9.57
- Field Study (based on existing counts) 9.54

# Project Trip Distribution



# Cut-Through Traffic

10%

Based on license plate matches, cut-through traffic accounted for 10 percent of the total traffic during the AM and PM peak periods between:

Ridgeline Road at Santiago Canyon Road



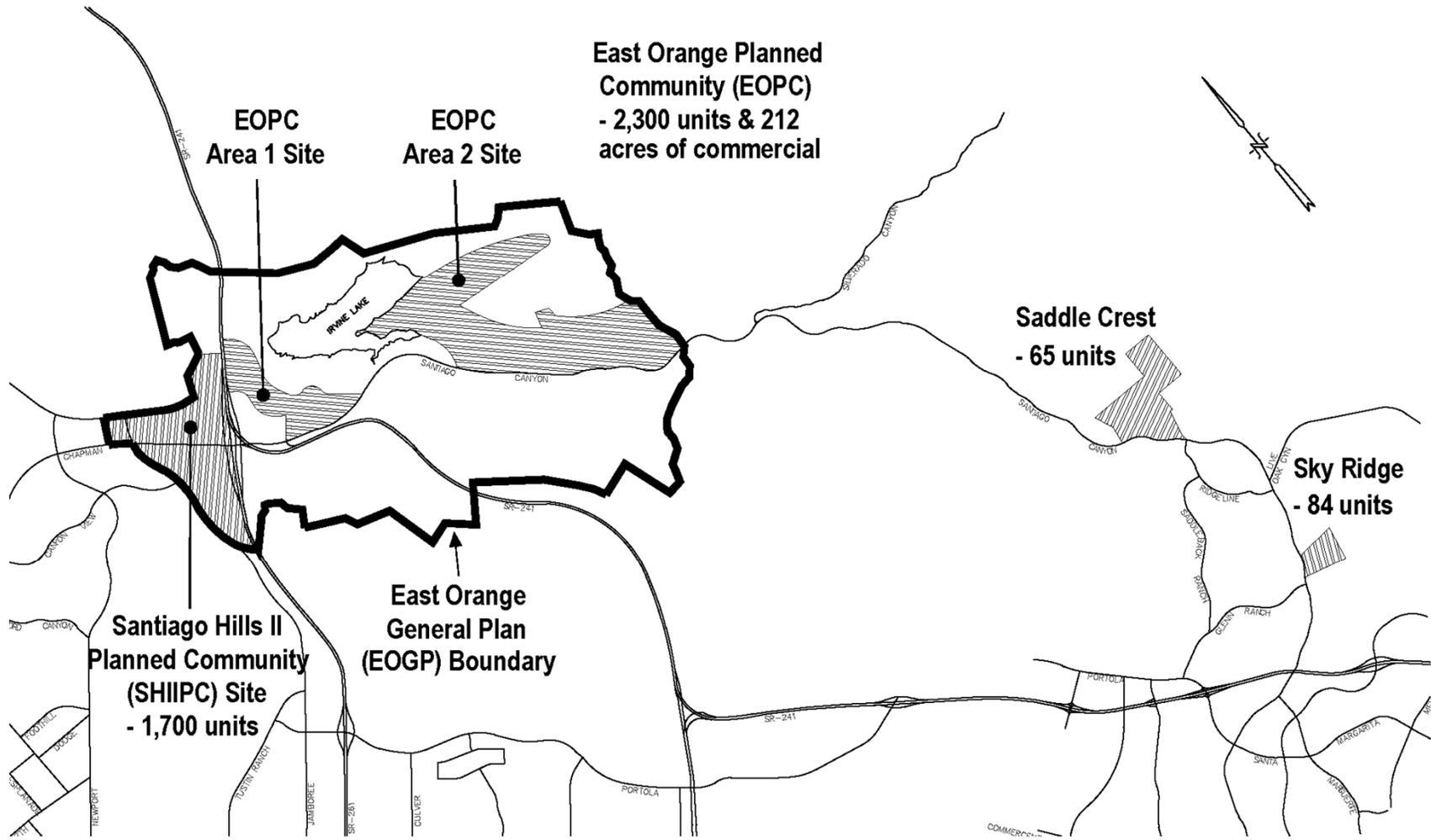
Saddleback Ranch Road at Glenn Ranch Road

# Future Growth

The future analysis conditions include three major project developments that could potentially contribute traffic in Portola Hills:

- Saddle Crest Project – 65 units  
(Unincorporated County)
- Santiago Hills II & East Orange Projects  
– 4,000 units & 212 acres of commercial  
(Unincorporated County)
- Sky Ridge – 84 units (Mission Viejo)

# Future Growth Locations



# Safety Review

(accident history and “near misses”)

# 12

Number of reported accidents on Saddleback Ranch Road between 2009 – 2012 according to the Statewide Integrated Traffic Records System (SWITRS).

- 5 at Fawn Ridge Road
- 2 at Shady Ridge Lane
- 1 at Malabar Road
- 1 at Millwood Road
- 1 at Pendleton Road
- 1 at Alder Way
- 1 at Ranchwood Way

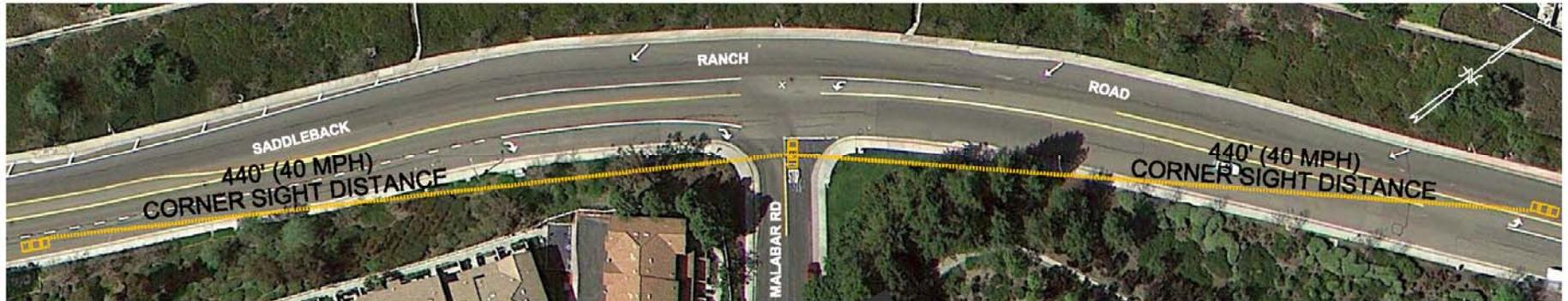
“Near misses” field review

# Community Issues on Saddleback Ranch Road

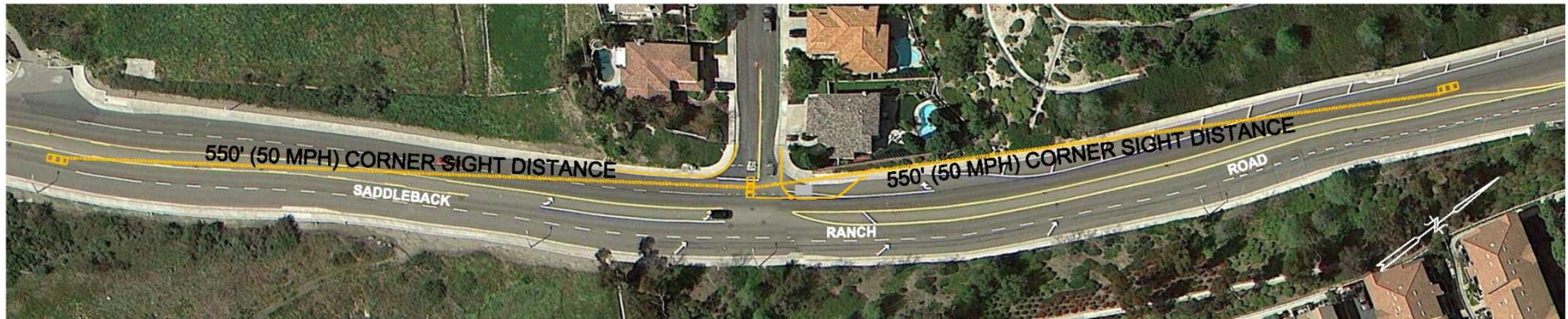
# Sight Distance at Millwood Road and Saddleback Ranch Road



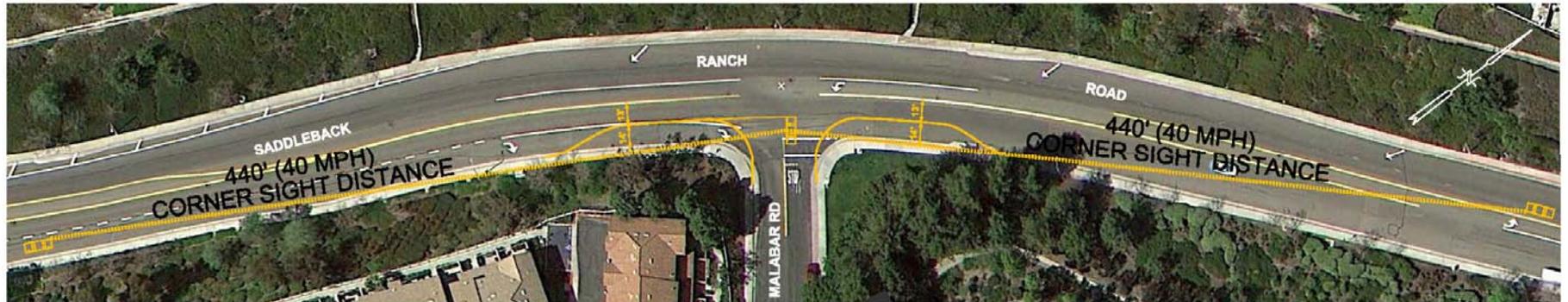
# Sight Distance at Malabar Road and Saddleback Ranch Road



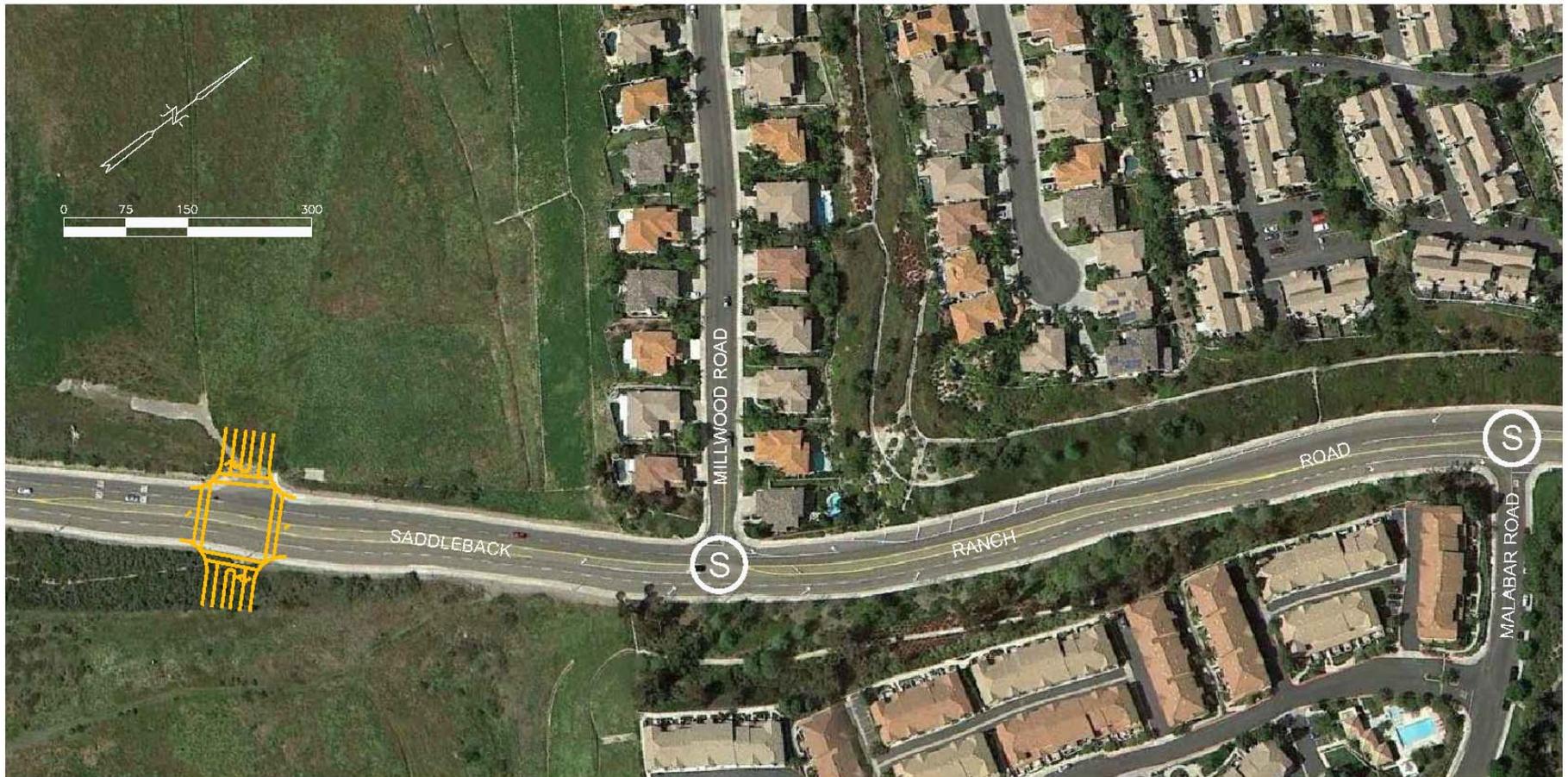
# Bulb-out at Millwood Road



# Bulb-out at Malabar Road



# New signal at Millwood Road and/or Malabar Road



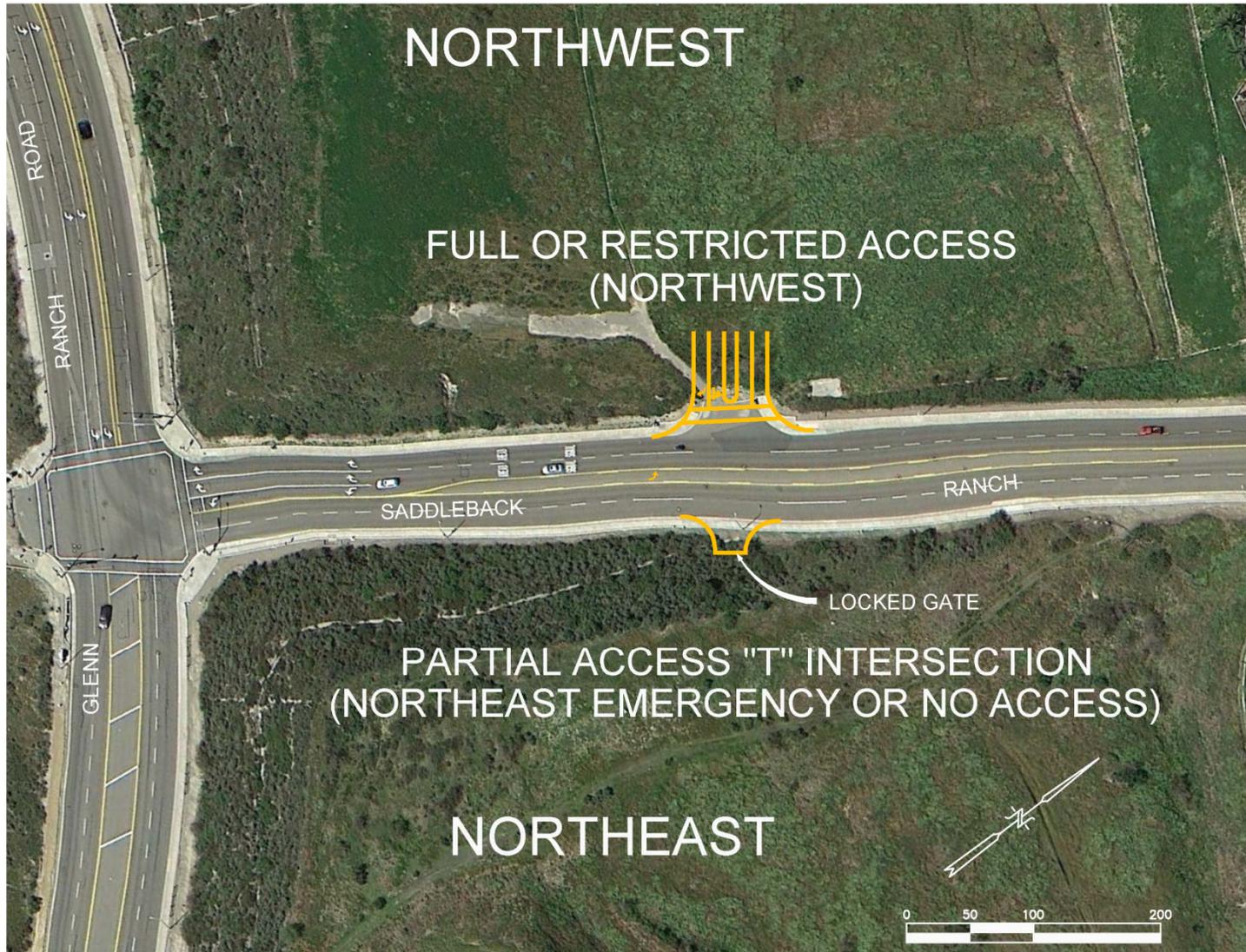
# Sight Distance at Pendleton Road



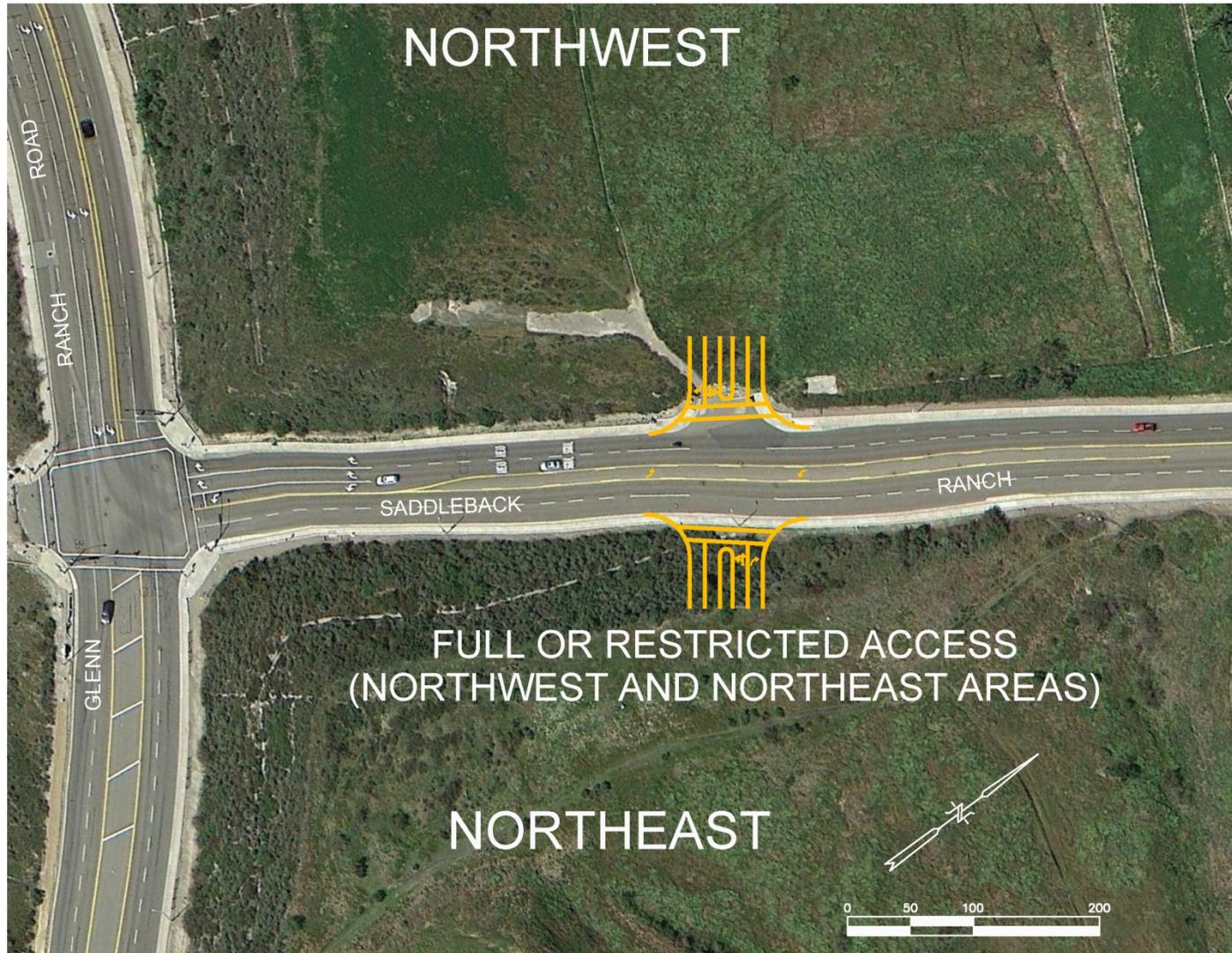
# Portola Hills Elementary School Access and Circulation and Pendleton Road



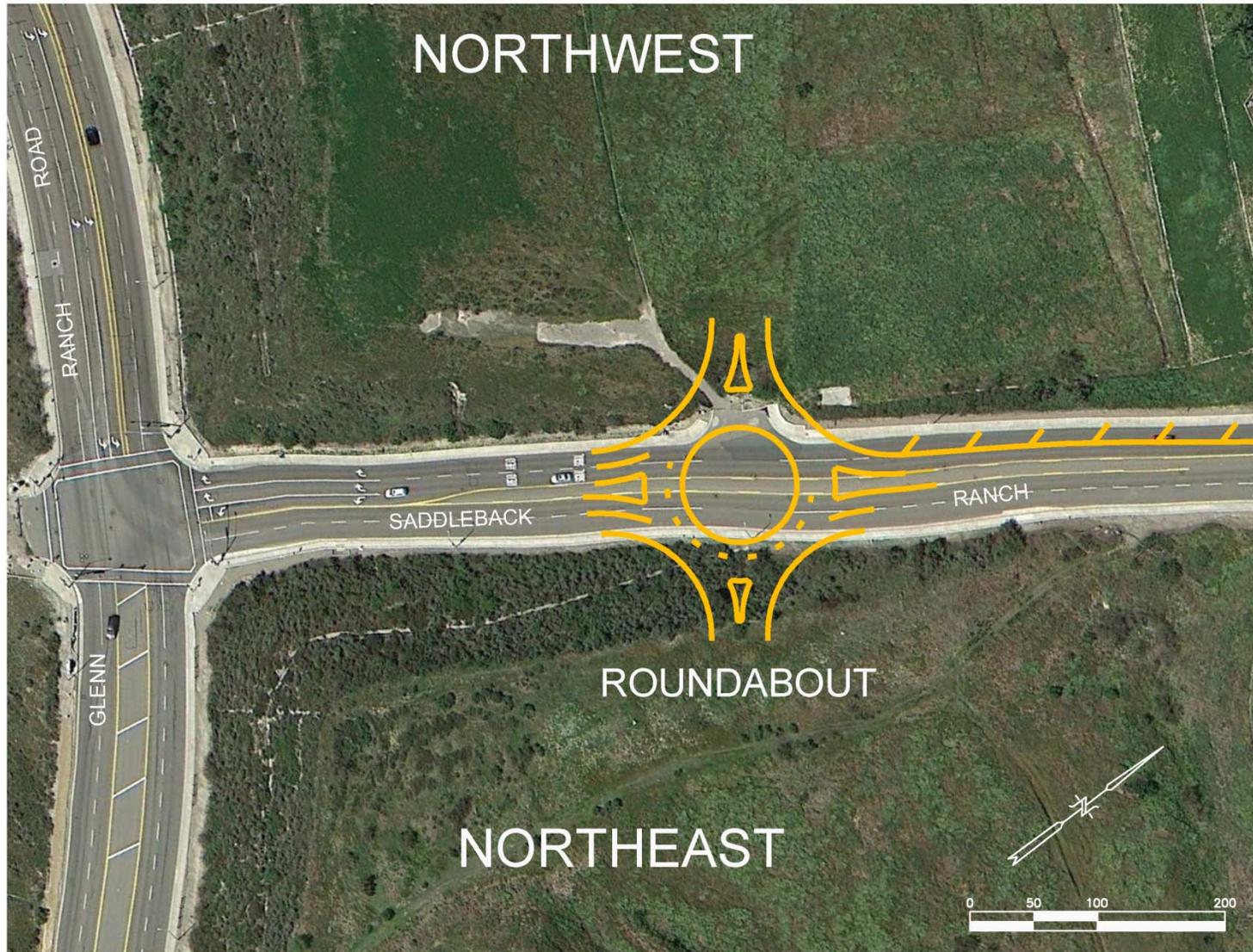
# Alternative 1 – T-intersection on SRR to serve the northwest



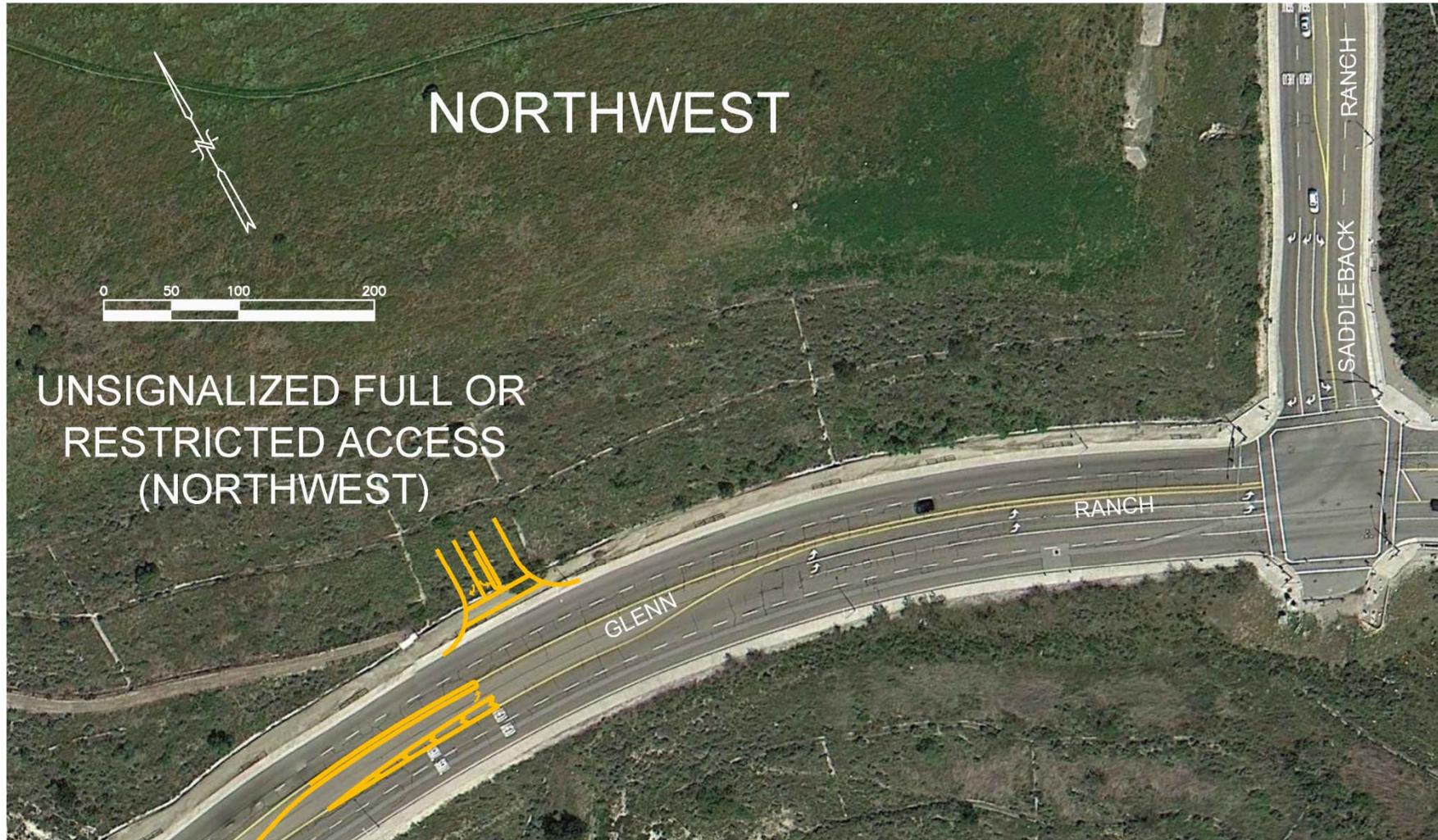
# Alternative 2 – Four-way on SRR to serve the northwest and northeast



# Alternative 3 – Roundabout on SRR to serve the northwest and northeast



# Alternative 4 – T-intersection on Glenn Ranch Road to serve the northwest



# Alternative 5 – Four-way on Glenn Ranch Road to serve the northeast and south



# Comparable Residential Area



# Portola Center Access Alternatives



# **Portola Center Access Feasibility Evaluation Matrix**

# Community Survey

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