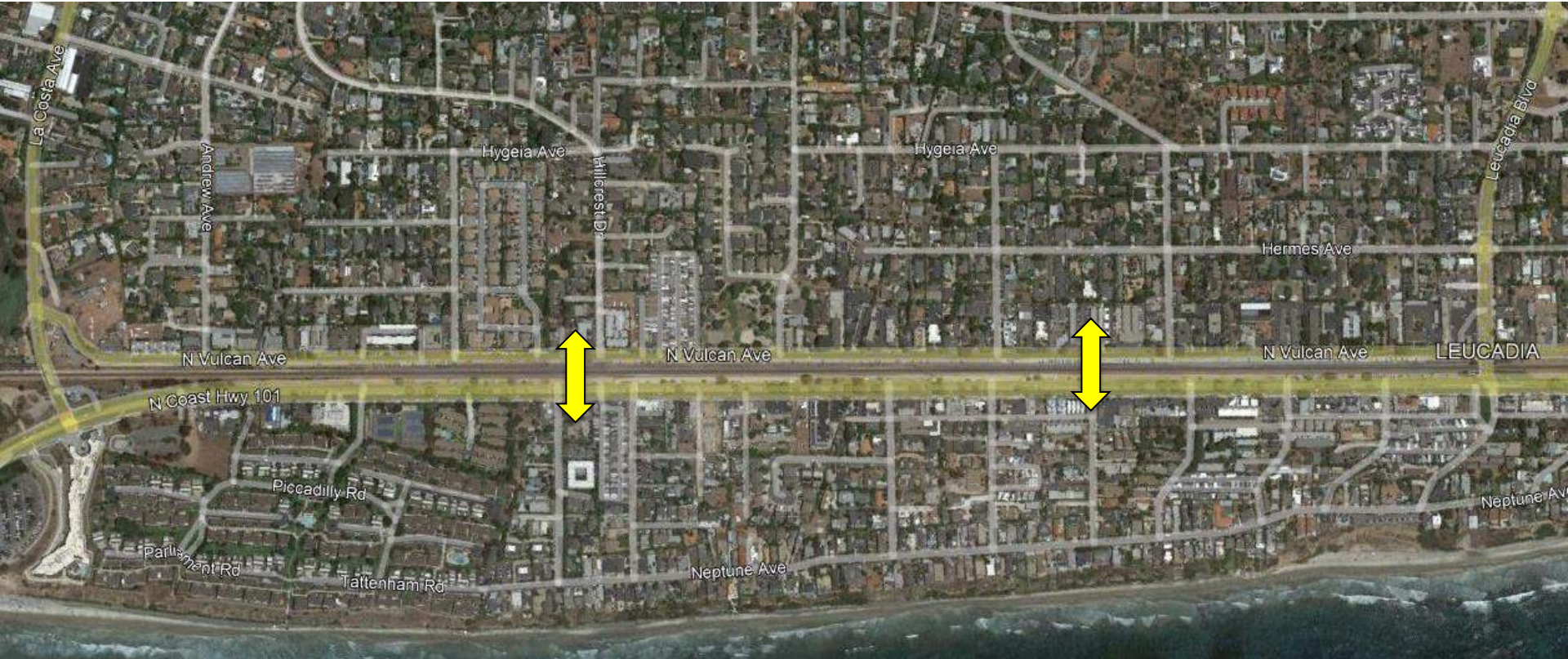


# Leucadia Pedestrian and Bicycle At-Grade Railroad Crossings and Citywide Quiet Zone Updates

May 26, 2026



# Leucadia At-Grade Proposed Locations



# Project History

- **2018** – Began the Citywide Cross Connect Study
- **December 2020** – Presented the Study and Approved by Council
- **Fall 2021** – City, FRA, CPUC, & NCTD met to discuss At Grade Crossings in Leucadia in Fall 2021.
  - CPUC Expressed At Grade Crossings would require Train Horns
- **November 2021** – City & NCTD executed MOU to implement measures to improve safety along the LOSSAN Corridor
- **December 2021** – City Conducted a Train Horn Demonstration in Leucadia and conducted a Survey with residents in December 2021



# Project History

- **August 2022** – Council Approved Site Study Contract
- **Summer 2023** – Completed Phase 1 Work (Site Analysis and Concept Design)
- **September 2023** – Council approved Design Contract for 2 At-Grade Rail Crossings
- **2024-2025** – Preliminary Design, Stakeholder Agency Input, CPUC Crossing Application
- **July 2025** – 30% Concept Design Completed
- **September 2025** – Stakeholder Diagnostic Meeting with FRA, CPUC, NCTD, and City
- **February 2026** – CPUC Application Approved



# Leucadia At-Grade Project Steps

- **Concept Studies and Design - Complete**
- **Preliminary Engineering - Complete**
- **Stakeholder Site Diagnostic Meeting – Complete**
- **CPUC Application – Prepared, Submitted, & Approved**
- **Final Design and Stakeholder Reviews - Ongoing**



# Location 1: Grandview Street



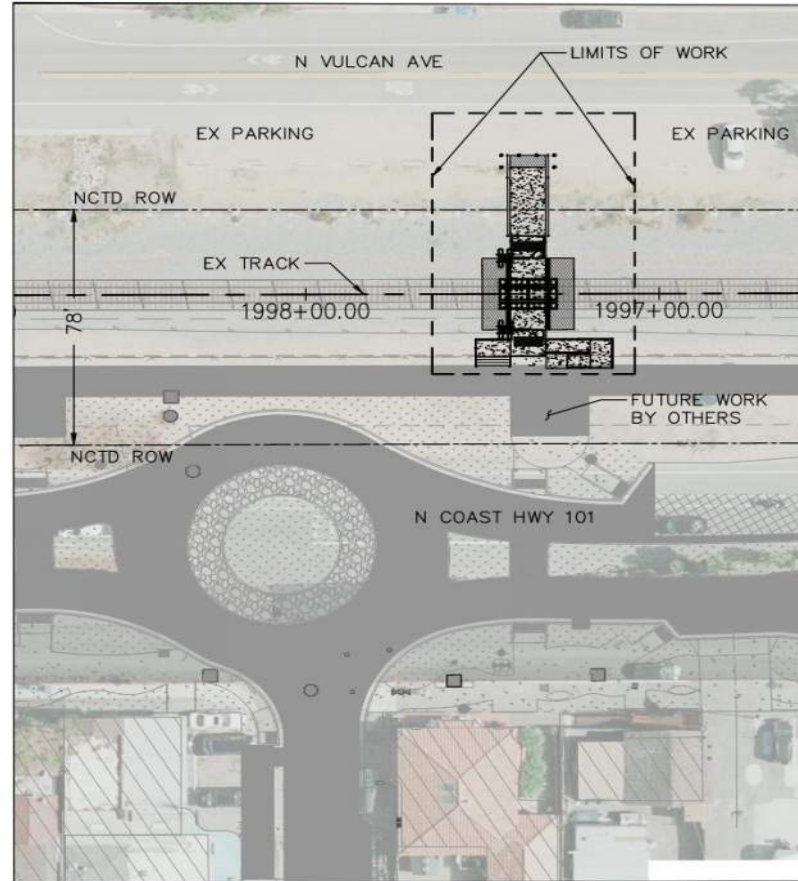
View from  
North Coast Highway 101  
toward Vulcan Ave



View from  
Vulcan Ave toward  
North Coast Highway 101



# Grandview Concept Layout



GRANDVIEW CROSSING



# Grandview Concept Rendering – Looking Easterly



# Grandview Concept Rendering – Looking Westerly



# Location 2: Phoebe Street



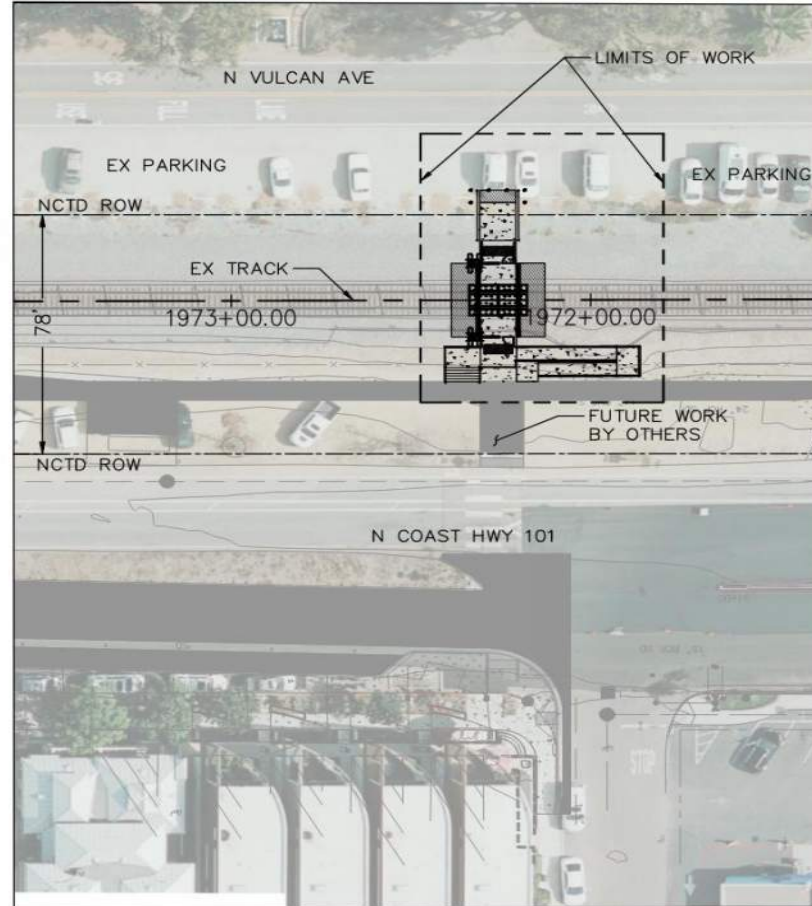
View from  
North Coast Highway 101  
toward Vulcan Ave



View from  
Vulcan Ave toward  
North Coast Highway  
101



# Phoebe Concept Layout



PHOEBE CROSSING

# Phoebe Concept Rendering – Looking Easterly

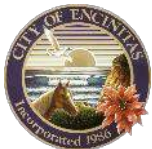


# Phoebe Concept Rendering – Looking Westerly



# Completed Items for At Grade Design

- **Survey of Proposed Locations**
- **Environmental Studies for Proposed Locations (CEQA CE)**
  - Biological Resources Assessment
  - Cultural Resources Assessment
  - Environmental Constraints Analysis
- **Geotechnical Analysis of Proposed Locations**
- **Concept Plans (30%) for Proposed Locations**
- **Site Diagnostic Meeting with Key Stakeholders**
- **CPUC Application and Approval**



# Leucadia At-Grade Proposed Locations



# FRA Horn Rule/Requirements

- **Locomotive horns:**
  - ¼ mile or 20-25 seconds on approach
  - 96dB -110dB at 100' along the locomotive path of travel
- **Locomotive Horn relief options:**
  - Quiet Zones – Pedestrian Crossings must be:
    - Bookended by public **roadway** crossings within the QZ, or
    - within ¼ mile of the nearest public roadway within the QZ
  - Wayside Horn System – a localized horn at the crossing:
    - Min. 15 seconds before train arrival
    - 96dB -110dB at 100' from track centerline
    - Directed toward the path of travel
    - Typically, part of or installed on the railroad warning device



# Alternative - Audible Warning System

- **Pedestrian Audible Warning System:**
  - Same/similar requirements as Wayside Horn System
  - Controlled and maintained by the City – more operational flexibility
  - Requires variance/waiver approval from regulatory agencies
- **This Option Requires FRA Wavier Approval**



# Pedestrian Audible Warning System Alternative

## San Clemente Example



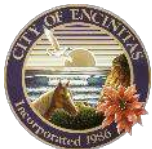
# Wayside Horn System Alternative

## Del Mar Example



# Project Schedule

- **May 2026** – Hold CPP Meeting and Complete Final CPP Report
- **July 2026** – Finalize 70% Design Plans
- Coordinate Stakeholder Reviews
- Incorporate Stakeholder Feedback into Final Design
- **December 2026** – Complete Final Design & Permitting
- **To Be Determined** – Construction Funding
  - **February 2026** – Submitted FRA Grant Application
  - **June 2026** – Submit CRISI Grant Application
- Begin Construction 6 Months after Construction Fully Funded





# QUESTIONS