



LODI CITY COUNCIL

Carnegie Forum
305 West Pine Street, Lodi

"SHIRTSLEEVE" SESSION

Date: September 18, 2012

Time: 7:00 a.m.

For information regarding this Agenda please contact:

Randi Johl

City Clerk

Telephone: (209) 333-6702

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Informal Informational Meeting

- A. Roll Call by City Clerk
- B. Topic(s)
 - B-1 Railroad Crossing Safety Program (PW)
- C. Comments by Public on Non-Agenda Items
- D. Adjournment

Pursuant to Section 54954.2(a) of the Government Code of the State of California, this agenda was posted at least 72 hours in advance of the scheduled meeting at a public place freely accessible to the public 24 hours a day.

Randi Johl
City Clerk



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CITY OF LODI COUNCIL COMMUNICATION

AGENDA TITLE: Presentation of Information Regarding Railroad Crossing Safety Program
MEETING DATE: September 18, 2012 (Shirtsleeve Session)
PREPARED BY: Public Works Director

RECOMMENDED ACTION: Presentation of information regarding Railroad Crossing Safety Program.

BACKGROUND INFORMATION: City staff will present information regarding the Federal Railroad Administration Quiet Zone Rule adopted in June 2005. Topics to be covered include existing conditions, creating a quiet zone, local examples, safety measures, and costs of safety measures.

The purpose of the presentation is to inform the City Council regarding this federal program and to discuss with the City Council the implementation of a quiet zone.

FISCAL IMPACT: Not applicable.

FUNDING AVAILABLE: Not applicable.

F. Wally Sandelin
Public Works Director

FWS/pmf

APPROVED: _____
Konradt Bartlam, City Manager

The City of Lodi
**Public Works
Engineering**



**Federal Railroad Administration
Train Horn and Quiet Zone Rule**



Federal Regulations

- Federal Regulations are Superior to State/Local Regulations
- Effective June 24, 2005
- Exceptions Allowed with Safety Improvements
- Horns Can Still be Sounded in Quiet Zones
 - Operator Discretion
 - Emergency
- Partial Quiet Zones
 - Evening and/or Nighttime Prohibition



Requirements to Sound Locomotive Horn

- 15 – 20 Seconds Prior to Crossing
- Pattern – Two Long, One Short, One Long
- Variations Allowed for Closely-Spaced Crossings
- Minimum of 96 dB, Maximum 110 dB



Creation of Quiet Zone

- Risk Index Approach
- Risk at Crossing is Below National Significant Risk Threshold (NSRT)
 - Typically Low-Risk Locales
 - Few, if Any, Improvements Required
- Risk at Crossing Exceeds NSRT
 - Supplementary Safety Measures
 - Alternative Safety Measures
- Minimum ½ Mile Long



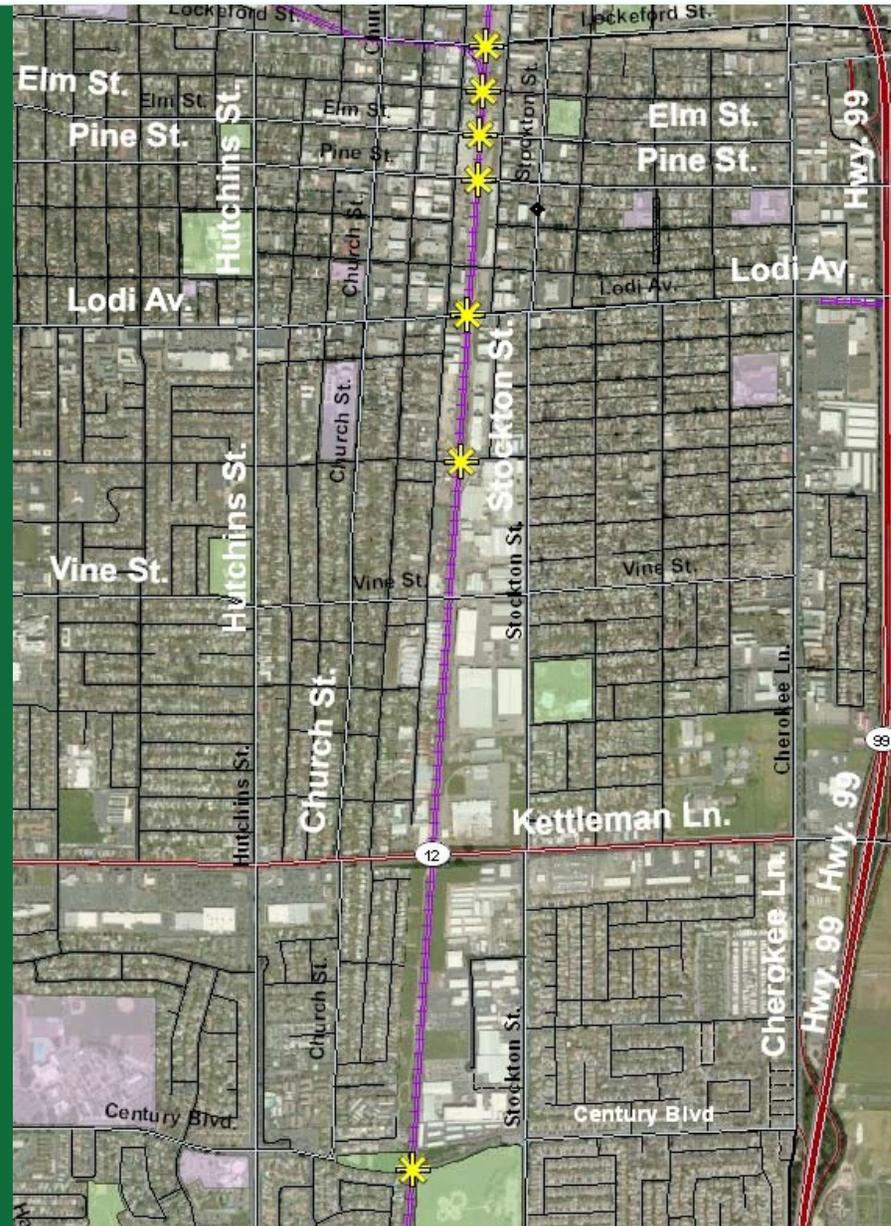
Quiet Zones in California

- 29 in State
- Sacramento, Stockton, Elk Grove



Lodi Quiet Zone

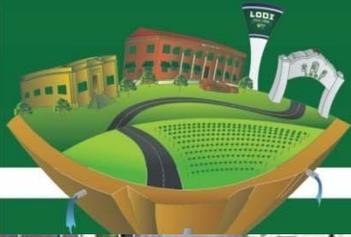
- Lockeford St
- Locust St
- Elm St
- Pine St
- Lodi Ave
- Tokay St
- Century Blvd





Supplementary Safety Measures (SSM)

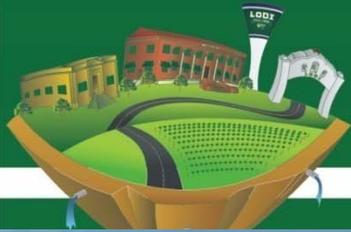
- Compensate for Absence of Train Horn
- Four-Quadrant Gate Systems
- Median or Channelization Devices
- One-Way Streets with Gates
- Permanent Closure



Bond Rd at RR X-ing

East of Elk Grove Florin Rd





Bond Rd Looking East at RR X-ing

East of Elk Grove Florin Rd





Bond Rd Looking West at RR X-ing East of Elk Grove Florin Rd





Calvine Rd at RR X-ing

West of Elk Grove Florin Rd





Calvine Rd Looking West at RR X-ing West of Elk Grove Florin Rd





Elk Grove Blvd at RR X-ing

East of Elk Grove Florin Rd





Elk Grove Blvd Looking East at RR X-ing East of Elk Grove Florin Rd



2012 Elk Grove Boulevard Exit Street View

Schanzenbachs
Schanzenbachs

Elk Grove Boulevard

© 2012 Google
© 2012 Google

Google earth

38°24'32.21"N 121°21'51.82"W, elev. 53 ft

Eye alt. 50 ft



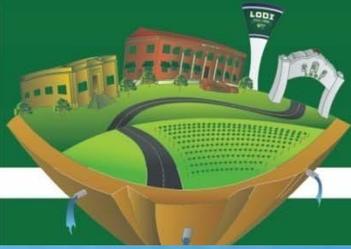
Elk Grove Blvd Looking West at RR X-ing East of Elk Grove Florin Rd





Sheldon Rd at RR X-ing West of Elk Grove Florin Rd





Sheldon Rd Looking East at RR X-ing West of Elk Grove Florin Rd





Alternative Safety Measures (ASM)

- Modified SSM's
 - Non-Complying Medians
 - Three-Quadrant Gates
- Engineered ASM's
 - Geometric Improvements
- Non-Engineered ASM's
 - Programmed Enforcements
 - Photo Enforcement
 - Education
- Automated Wayside Horn



Union Pacific Railroad Position

- Quiet Zones Compromise Safety
- Will Comply with Federal Law
- Full Cost Recovery



General Cost of Safety Measures

- Preliminary Engineering, Construction, Maintenance and Replacement
- Preliminary Engineering
 - \$5,000 per Wayside Horn Location
 - \$10,000 per Crossing Signal Location
- Construction (per crossing)
 - Four-Quadrant Gate System \$50,000 - \$500,000
 - Basic Active Warning System \$185,000 – \$400,000
 - Basic Inter-Connect \$5,000 - \$15,000
- Annual Maintenance (per crossing)
 - Per Crossing \$4,000 - \$10,000



Funding Sources

- Measure K Local Street Repair
- Congestion Management Air Quality (federal)
- Surface Transportation Project (federal)
- FHWA Section 130 Program (federal by state)
- State Transportation Funds
- Workforce Housing Grant (Elk Grove)



Questions?