



# QUIET ZONES

## *5-Points & UMC*



**El Paso Department of Transportation**



# QUIET ZONE

## **Definition:**

**A segment of a railroad line, situated on one or more consecutive railroad-roadway crossings at which train horns are not sounded.**



# To establish a New Quiet Zone

New Quiet Zone must be:

- At least ½ mile long.
- At least one public roadway-rail grade crossing.
- On a crossing at least equipped with flashing lights and gate automatic warning system.
- Established to cover a full 24-hour period.



## HISTORY

- Spring 2006 - Traffic Engineering Div. staff began Quiet Zone study.**
  
- Summer 2006 - QZ pilot was chosen by the Transportation Legislative Review Committee.**
  
- Fall 2006 - Staff, PD, City Reps., UPRR, met with FRA and discussed proposed street closures.**  
  
**City Reps. & Staff met with Five Points Neighborhood Association discussed project details.**
  
- Spring 2007 - Surveyed local residents regarding proposed street closures.**
  
- Fall 2007 - Obtain Funding \$600,000 - \$1,000,000 FY 07-08**



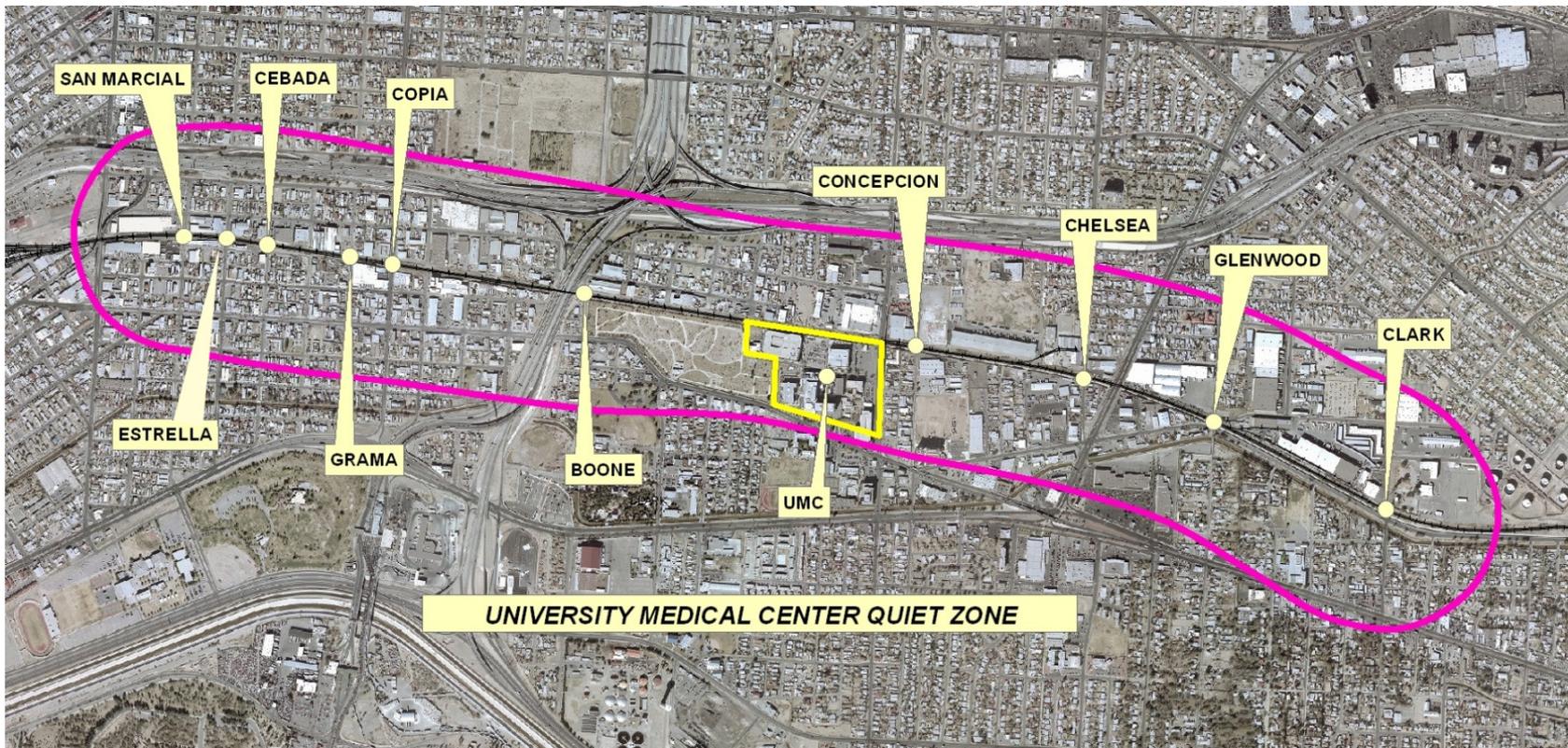
## HISTORY

- Fall 2011 -            EPDOT staff began to establish Quiet Zones.**
- Winter 2011 -        EPDOT Staff and UPRR, met to discuss proposed street alternatives.**
- Spring 2012 -        QZ presentation to the Transportation Legislative Review Committee.**





# UMC QZ



El Paso Department of Transportation



# Federal Railroad Administration Supplemental Safety Measures (SSM)

**They are required by the Federal Railroad Admn. to be installed to create a Quiet Zone. Measures include the following:**

- **Four Quadrant Gate Systems**
- **Medians or Channelization Devices**
- **Permanent Closure**
- **One Way Streets with gates**



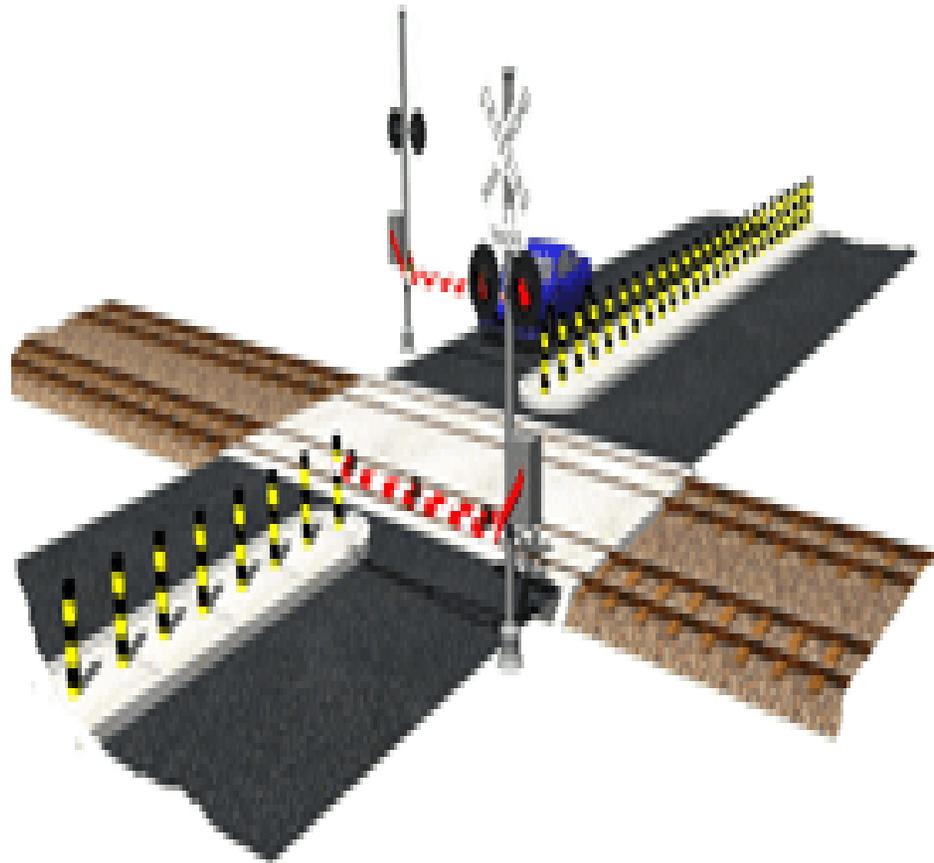
# Median Proposed Improvements

## 5-Points

- Piedras Street
- Elm Street
- Rosewood St.

## UMC

- San Marcial St.
- Grama St.
- Copia St.
- Concepcion St.
- Chelsea St.
- Clark St.





## Complete Closure Proposed Improvements

### 5-Points

- Cedar Street
- Birch Street
- Maple Street

### UMC

- Estrella St.
- Cebada St.
- Boone St.

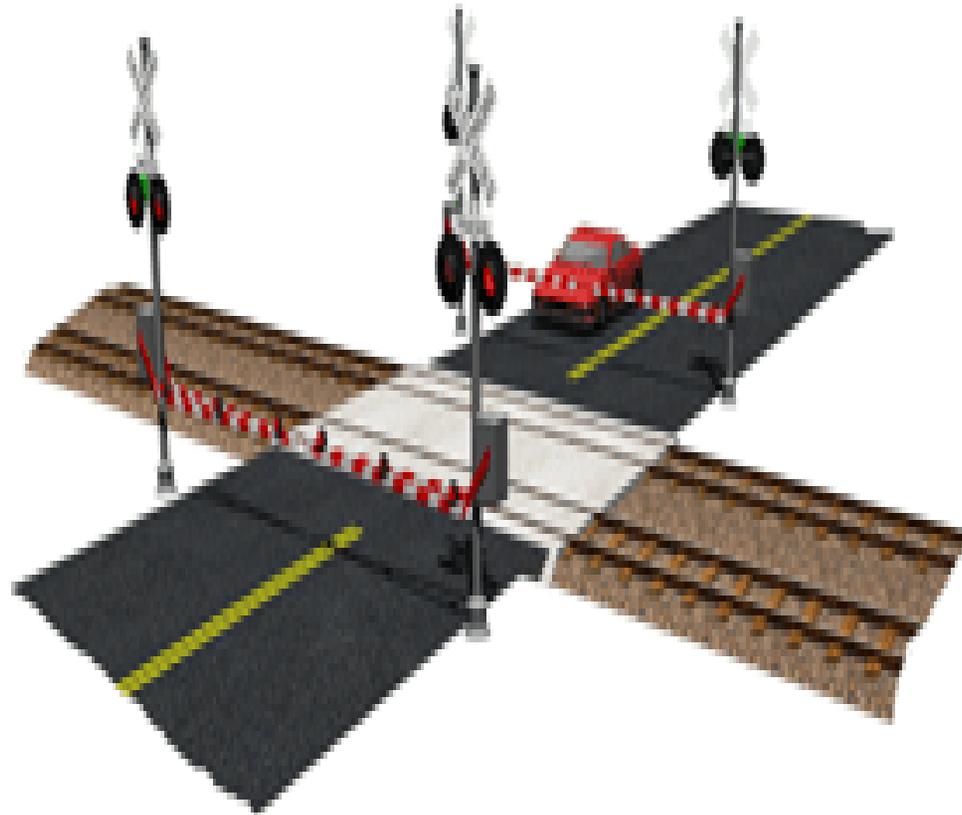




## Quad Gates Proposed Improvements

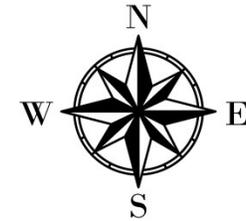
UMC

- Glenwood St.



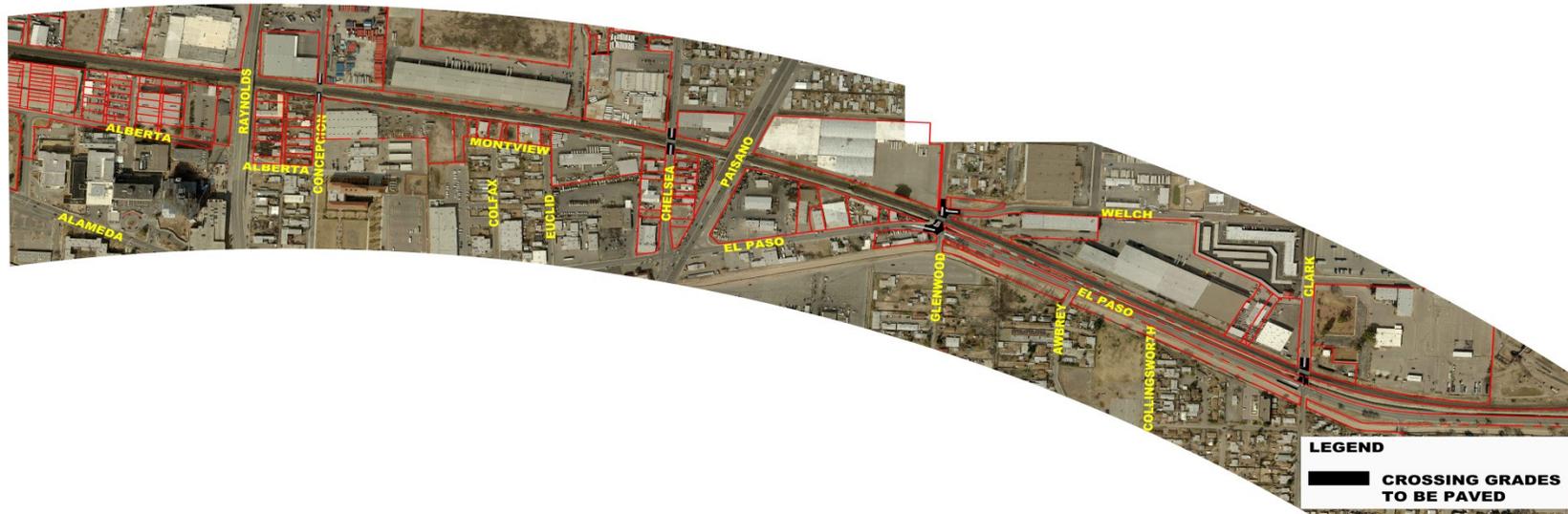
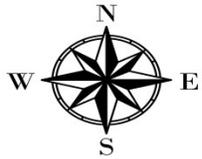


# Five Points Improvements





# UMC Improvements





# Quiet Zones Cost Estimate

<b>SUMMARY</b>			
<b>DESCRIPTION</b>	<b>FIVE POINTS</b>	<b>UMC</b>	<b>COST</b>
ALLEY PAVING	\$257,228		<b>\$257,228</b>
INTERSECTION PAVING	\$70,337	\$201,627	<b>\$271,964</b>
FRA SUPPLEMENTARY SAFETY MEASURES	\$80,000	\$400,000	<b>\$480,000</b>
QWICK KURB FOR MEDIANS	\$26,028	\$50,690	<b>\$76,718</b>
ILLUMINATION, CURB & GUTTER	\$149,781	\$3,000	<b>\$152,781</b>
<b>Subtotal</b>	\$583,374	\$655,317	<b>\$1,238,691</b>
Contingency 10%			<b>\$123,869</b>
		<b>TOTAL</b>	<b>\$1,362,560</b>
UNION PACIFIC RAILROAD CO. CONTRIBUTION (\$60K per street closure)	(\$180,000)	(\$180,000)	<b>(\$360,000)</b>
TXDOT CONTRIBUTION	(\$22,500)	(\$22,500)	<b>(\$45,000)</b>
<b>CITY OF EL PASO CONTRIBUTION</b>		<b>GRAND TOTAL</b>	<b>\$957,560</b>

*Note: Based on best available estimates actually construction cost cannot be calculated until after Union Pacific Railroad completes preliminary design.*

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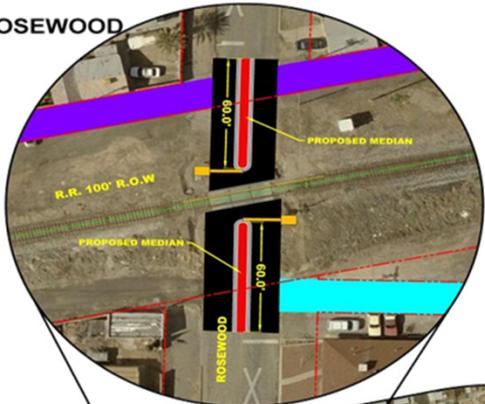


**El Paso Department of Transportation**

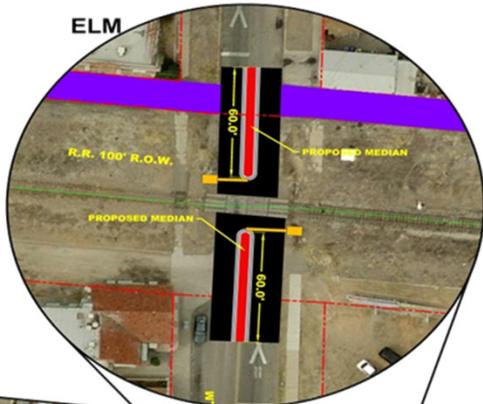
**QUIET ZONE FIVE POINTS**



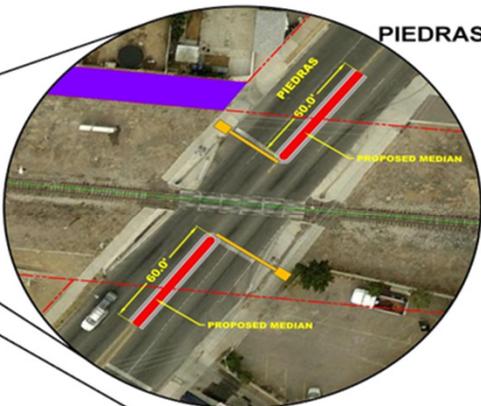
**ROSEWOOD**



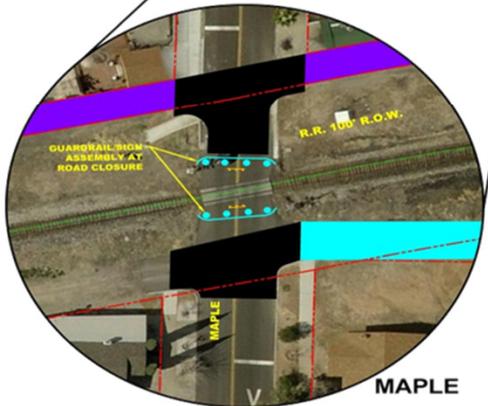
**ELM**



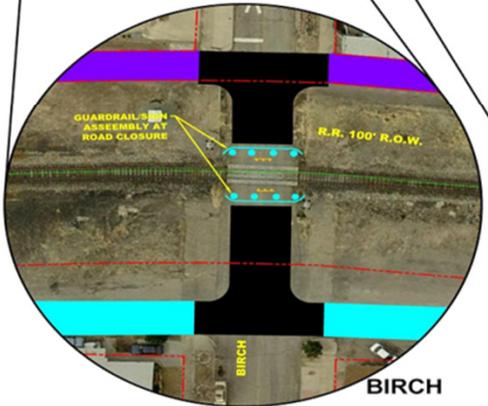
**PIEDRAS**



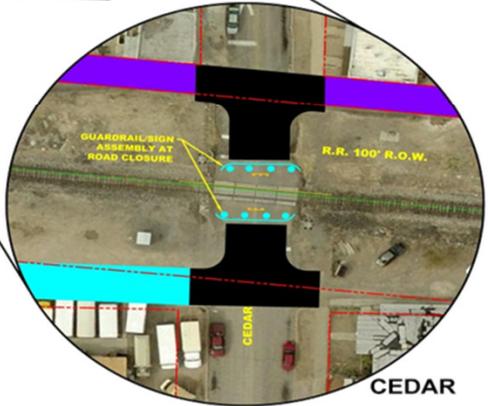
**MAPLE**

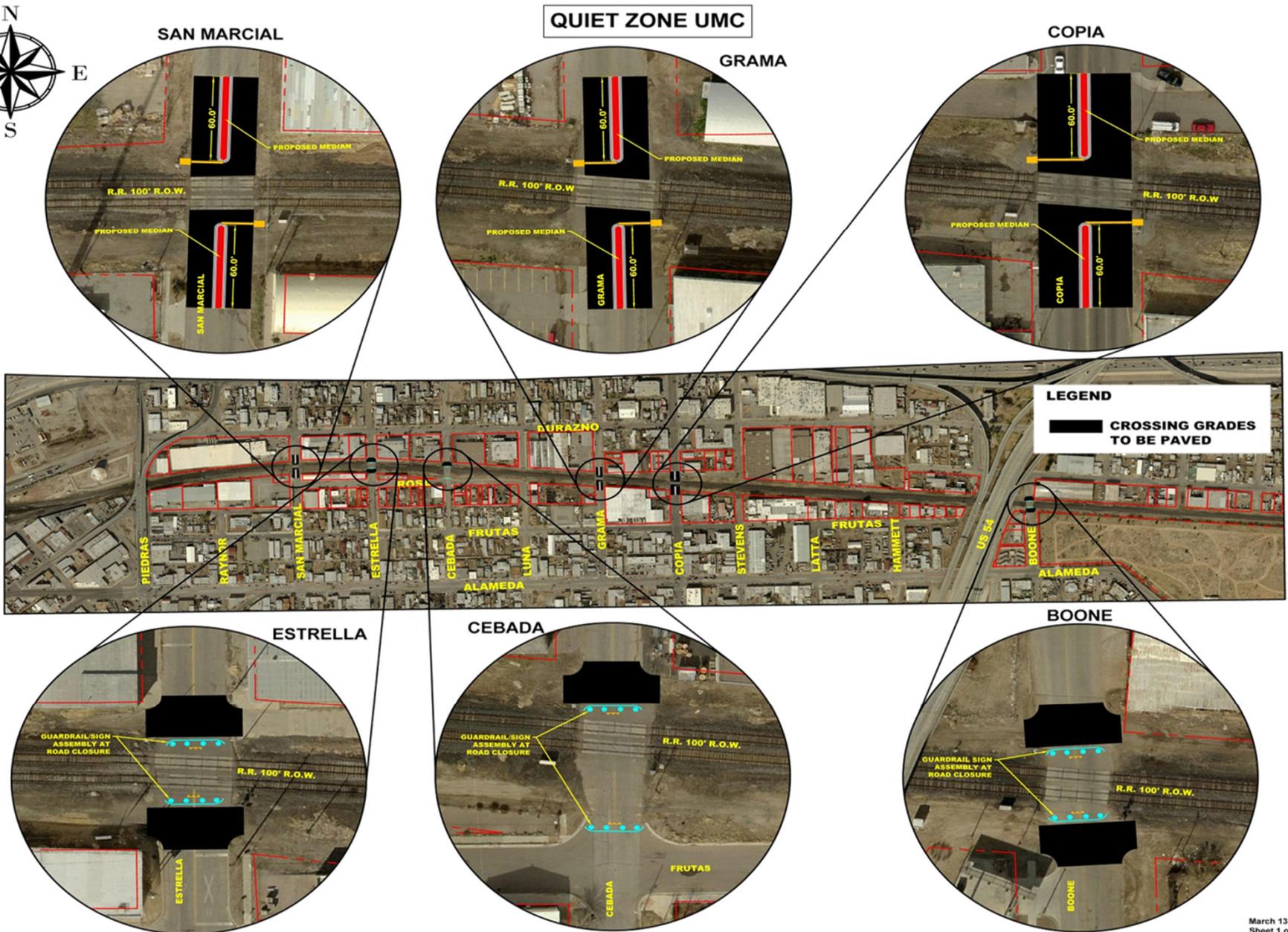


**BIRCH**



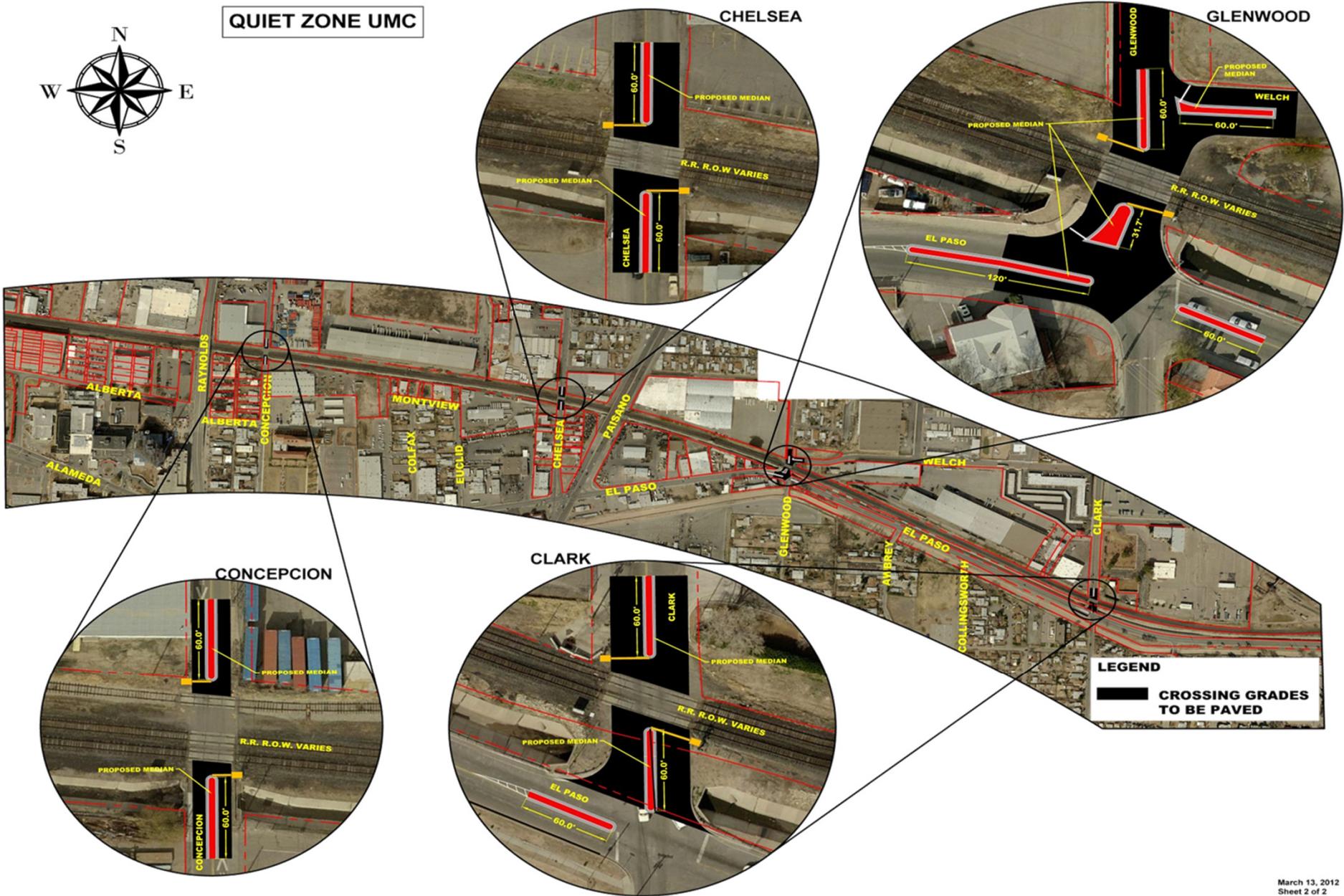
**CEDAR**







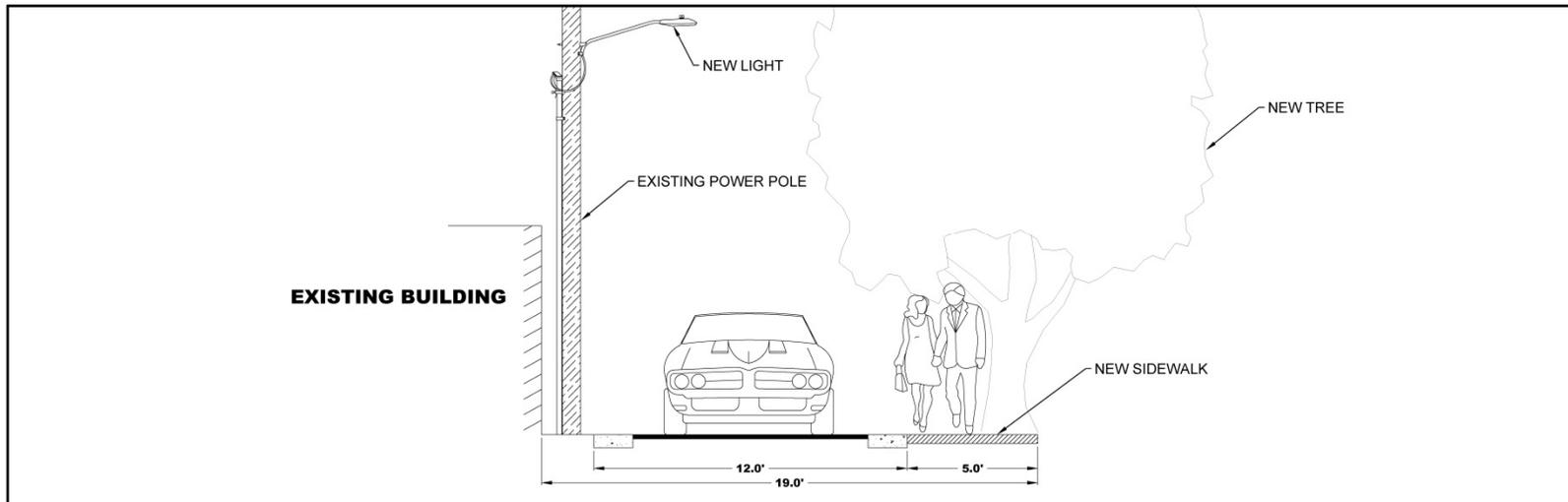
**QUIET ZONE UMC**



## TYPICAL ALLEY IMPROVEMENTS



## TYPICAL ALLEY CROSS SECTION



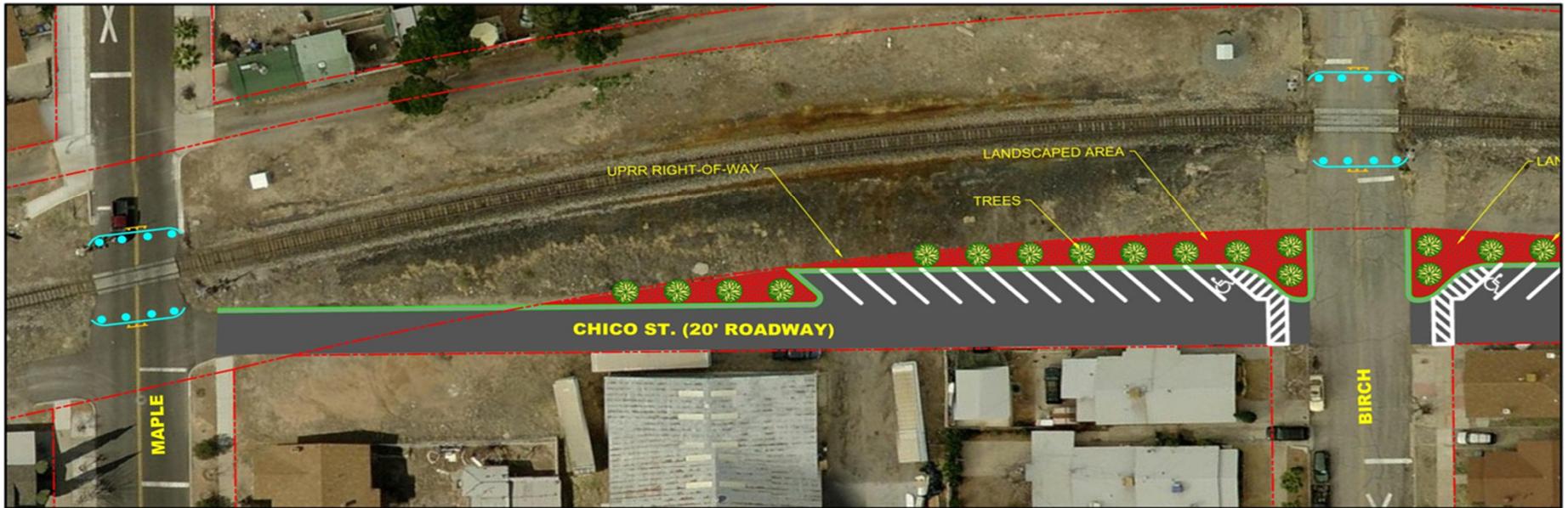
# North Alley



# North Alley

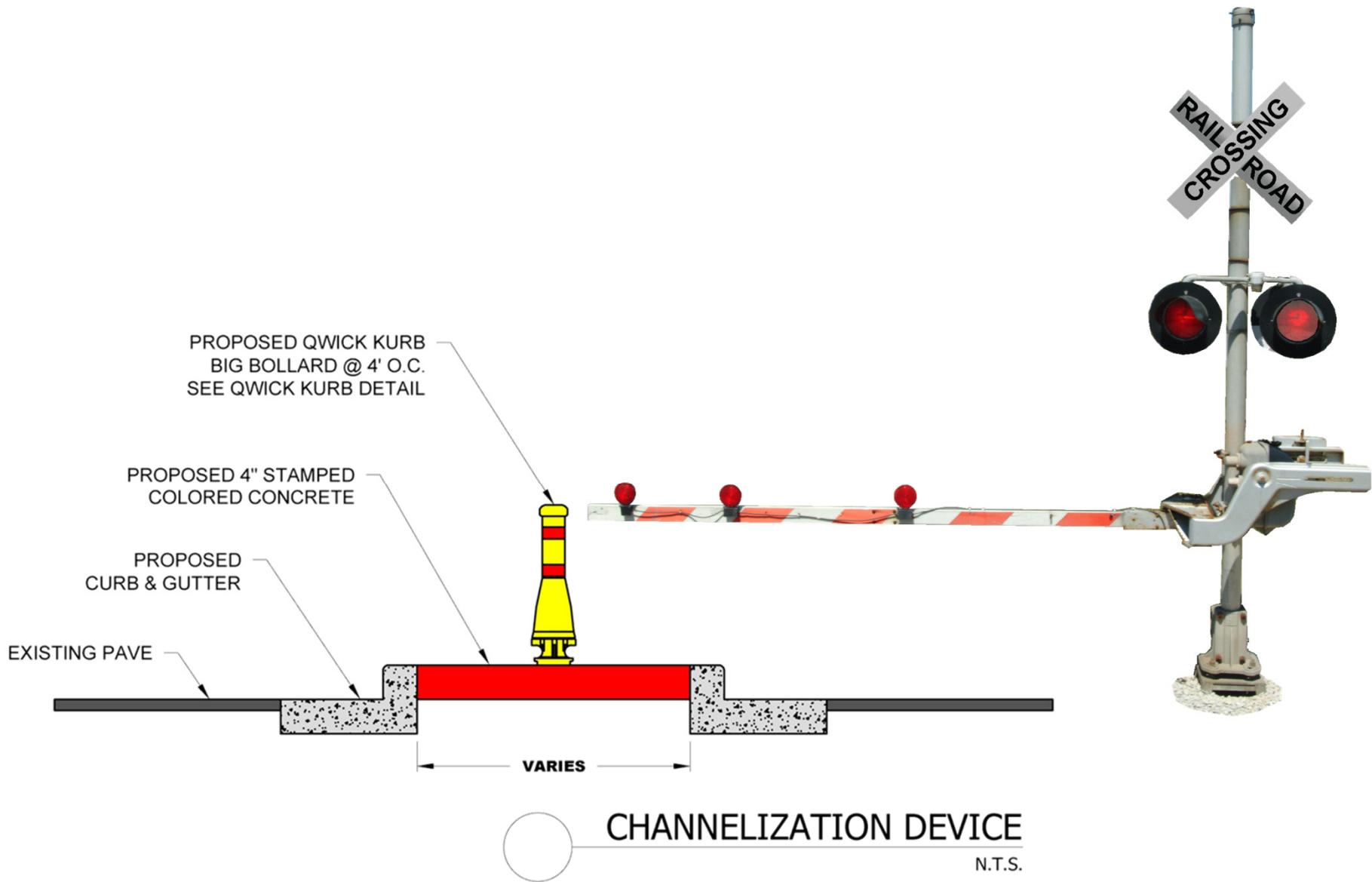


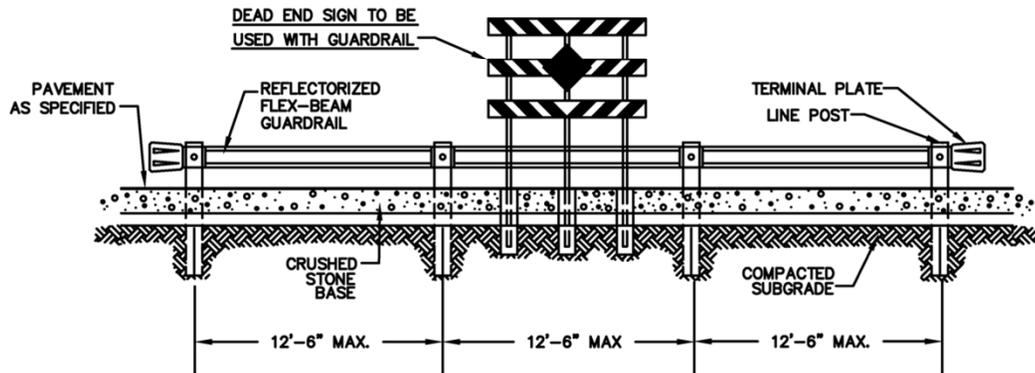
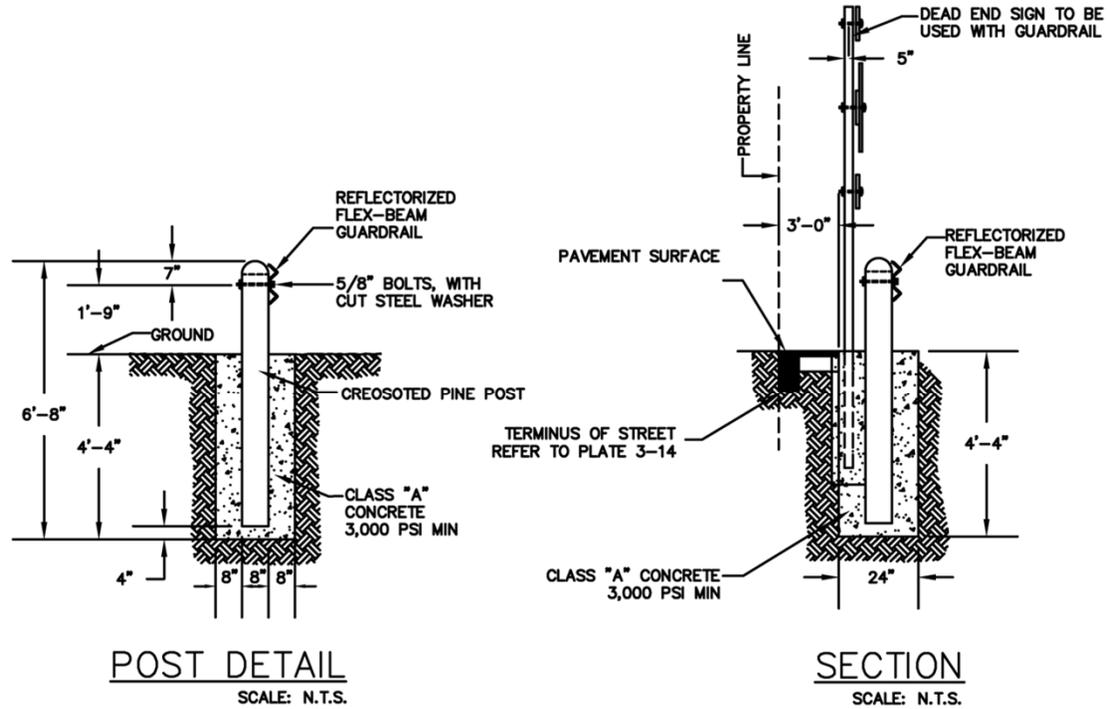
### CHICO ST. IMPROVEMENTS MAPLE TO BIRCH



### CHICO ST. IMPROVEMENTS BIRCH TO CEDAR









# PIEDRAS





# ELM





# CEDAR





# BIRCH





# MAPLE





# ROSEWOOD



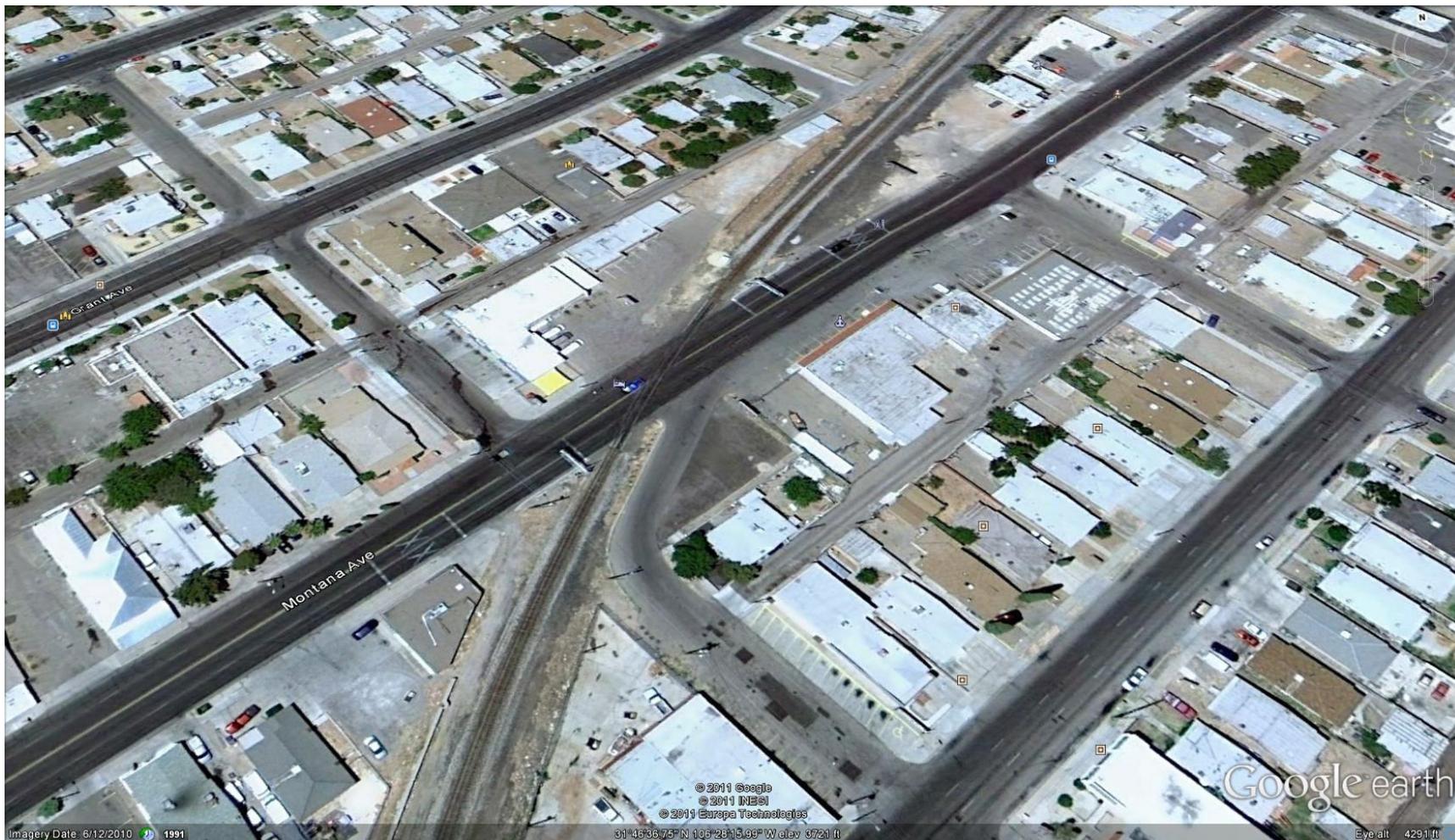


# MONTANA





# MONTANA





# BOONE





# CONCEPCION





# CHELSEA





# GLENWOOD





# CLARK

