

BURBANK TO LOS ANGELES PROJECT SECTION

GRADE SEPARATIONS



GRADE SEPARATIONS

CALIFORNIA HIGH-SPEED RAIL

What is a Grade Separation?

A grade separation is a roadway that is re-aligned over or under train tracks to eliminate hazards. High-speed rail proposes to grade-separate existing roads. Benefits of grade separations include:

Improves Safety

Grade separations eliminate conflicts between trains and vehicles/pedestrians.



Reduces Noise

Trains do not sound horns when crossing an intersection.



Increases Speed

Trains can travel through areas at a greater speed.



Decreases Traffic Congestion

Traffic can continue to flow when a train is crossing the intersection.



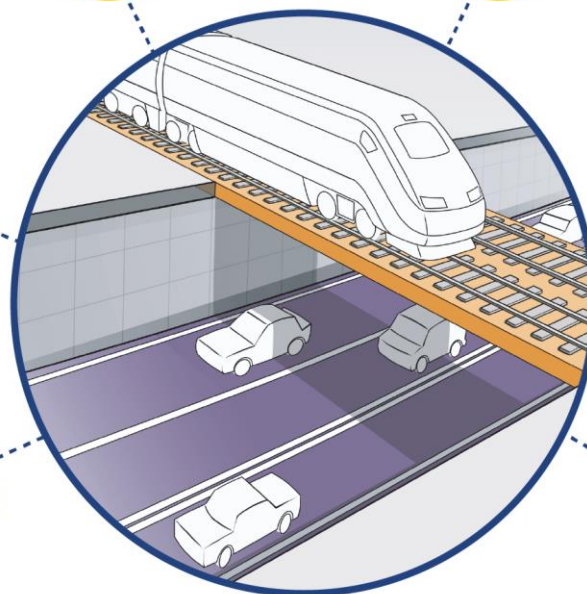
Improves Train Operations Reliability

Provides an opportunity for increased passenger rail service.



Reduces Greenhouse Gas Emissions

Vehicles do not have to idle while waiting for an approaching train.



GRADE SEPARATIONS

CALIFORNIA HIGH-SPEED RAIL

Evaluate potential impacts associated with grade separation elements in the Draft Environmental Impact Report/Environmental Impact Statement (DEIR/DEIS), such as:

- Road alignments
- Utility relocations
- Property access
- Traffic circulation
- Construction related

Avoid, minimize and mitigate impacts to surrounding properties



Sample Impacts at Grade Separation



GRADE SEPARATIONS

CALIFORNIA HIGH-SPEED RAIL



NEW GRADE SEPARATIONS

CALIFORNIA HIGH-SPEED RAIL

- **Maintains existing vehicular and pedestrian/bicycle circulation patterns to the greatest extent possible**
- **Construction staging areas primarily located within right-of-way already required for proposed improvements**
- **Minimize anticipated impacts to adjacent properties**
- **May cause permanent and temporary access impacts at adjacent properties**



MODIFIED EXISTING GRADE SEPARATIONS

CALIFORNIA HIGH-SPEED RAIL

Modifications could include:

- Construction of new bridge
- Widening of existing bridge
- Reconstruction of existing bridge
- Lowering or raising of existing roadway to meet vertical clearance requirement

Construction staging areas primarily located within rail right-of-way and acquired properties required for proposed improvements

May cause temporary and permanent access impacts at adjacent properties



BURBANK TO LOS ANGELES PROJECT SECTION

CALIFORNIA HIGH-SPEED RAIL

New Grade Separations Included in Environmental Analysis

City of Burbank

1. Buena Vista Street

City of Glendale

2. Sonora Avenue
3. Grandview Avenue
4. Flower Street

Cities of Glendale/Los Angeles

5. Goodwin Avenue
 - Chevy Chase Drive (pedestrian & bicycle crossing only, closed to vehicles)

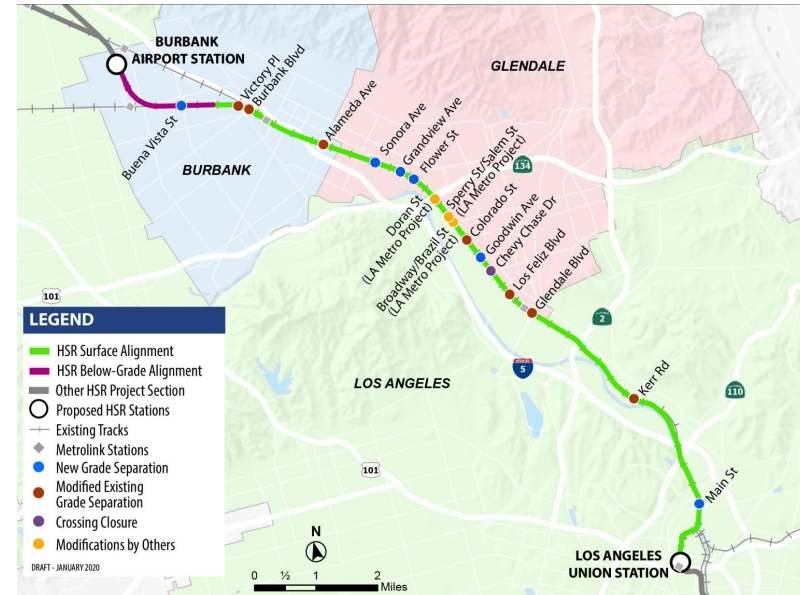
City of Los Angeles

6. Main Street

METRO Grade Separation

7. Sperry St./Salem St. (Glendale/Atwater Village)*

* Doran Street and Broadway/Brazil Streets will be closed; this project is being managed by Metro and is in the environmental planning phase.



Grade Separation – Undercrossing Concept



BUENA VISTA STREET

CALIFORNIA HIGH-SPEED RAIL

- Lowered HSR tracks below Buena Vista Street
- Roadway at same elevation with new bridge over railroad trench
- Maintains existing vehicle and pedestrian circulation patterns
- Temporary access impacts at adjacent properties



SONORA AVENUE

CALIFORNIA HIGH-SPEED RAIL

- Hybrid design concept with partially elevated tracks and partially lowered railway
- Maintains existing vehicular and pedestrian circulation patterns
- Construction staging areas primarily located within right-of-way that will have already been acquired for proposed improvements
- Permanent and temporary access impacts at adjacent properties



GRANDVIEW AVENUE

CALIFORNIA HIGH-SPEED RAIL

- Hybrid design concept with partially elevated tracks and partially lowered railway
- Maintains existing vehicular and pedestrian circulation patterns
- Construction staging areas primarily located within right-of-way that will have already been acquired for proposed improvements
- Temporary access impacts at adjacent properties



FLOWER STREET

CALIFORNIA HIGH-SPEED RAIL

- Hybrid design concept with partially elevated tracks and partially lowered railway
- Maintains existing vehicular and pedestrian circulation patterns
- Construction staging areas primarily located within right-of-way that will have already been acquired for proposed improvements
- Temporary access impacts at adjacent properties



GOODWIN AVENUE

CALIFORNIA HIGH-SPEED RAIL

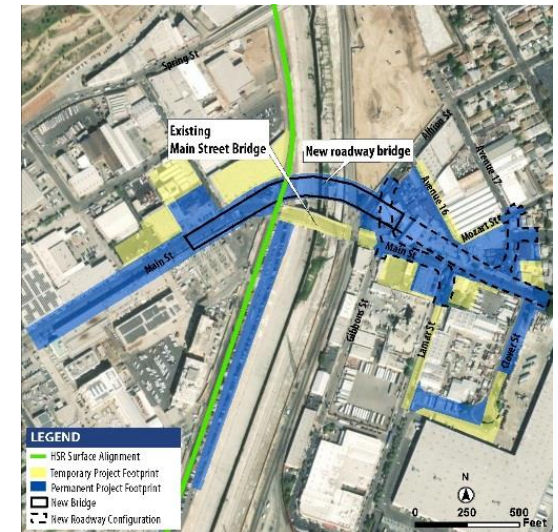
- Undercrossing option along Goodwin Avenue (re-opening it to vehicular traffic), rail remains at-grade and the road travels under the tracks
- Existing roadway crossing at Chevy Chase Drive would be closed and a pedestrian crossing would be added
- Working closely with Atwater Village Neighborhood Council on options
- Permanent and temporary access impacts at adjacent streets and properties



MAIN STREET

CALIFORNIA HIGH-SPEED RAIL

- Overpass option removes at-grade crossing conflict and improves overall safety and air quality, and provides for emergency access at all times
- Provides better pedestrian and bicycle access with the addition of bike lanes
- Would eliminate major traffic delays from future increases in train traffic – daily train volumes through the crossing projected to increase from approximately 125 today to 375 in 2040
- Strengthens road for greater line-of-sight and stopping distance; also increases traffic capacity at posted speed limit, while reducing traffic-related accidents
- Existing Main Street bridge will remain accessible as a historic landmark
- Permanent and temporary access impacts at adjacent properties



MODIFIED GRADE SEPARATIONS & CLOSURES

CALIFORNIA HIGH-SPEED RAIL

Modified Existing (7 roads)

City of Burbank

1. Victory Place
2. Burbank Boulevard
3. Alameda Avenue

City of Glendale

4. Colorado Street
5. Los Feliz Road
6. Glendale Boulevard

City of Los Angeles

7. Kerr Road

New (1 road)

1. Goodwin Street

Closed (3 roads)

1. Doran Street (managed by LA County Metro)
2. Broadway/Brazil (managed by LA County Metro)
3. Chevy Chase Drive (with new pedestrian crossing)



STAY INVOLVED

CALIFORNIA HIGH-SPEED RAIL

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