



ATTACHMENT F

We're developing a new vision for the
Long Beach-East Los Angeles Corridor Mobility Investment Plan

Initial List of Projects & Programs: Categories

Projects are organized by “improvement category”:

All projects and programs should support a multimodal future for the Corridor.

Project categories represent different modes:

Active Transportation

Freeway

Arterial Roadways

Goods Movement

Community Programs

Transit

Initial List of Projects & Programs: Sub-Categories

Active Transportation

Arterial Roadways

Community Programs

Freeway

Goods Movement

Transit

Active Transportation Sub-Categories:

- 1. Pedestrian & First/Last Mile Improvements*
- 2. Bike Routes & Facilities*
- 3. Safety & Amenities*
- 4. Travel Demand Management*

Initial List of Projects & Programs: Active Transportation

Project Types Include:

Pedestrian & First/Last Mile Improvements

- New pedestrian/bike overcrossings
- New pedestrian/bike pathways
- New pedestrian/bike connections to rail, transit, LA River
- New Crosswalks, sidewalks

Bike Routes & Facilities

- New Bike Paths/Trails
- New Buffer/Barrier-Protected Bike Routes
- New Bike Lanes
- New, Signed Bike Routes

Safety & Amenities

- High visibility crosswalks
- Wider sidewalks
- Pedestrian/bike crossing enhancements
- Bike parking, lighting, repair stations
- Bike share programs
- Traffic controls for pedestrians/bikes
- ADA improvements
- Shade structures, trees, landscaping
- Security & lighting

Travel Demand Management

- Vanpools/carpool programs
- Telecommuting programs
- Promotional Campaigns to encourage Alternative Modes of Travel

Bicycle and Pedestrian Improvements



Bike Lanes



New bicycle lane on existing roadways, indicated by striping, signage, and physical barriers.

Shared-Use Path



New bicycle paths just for bicyclists and pedestrians.

Pedestrian Safety and Amenities



Wider sidewalks, lighting, benches, shade trees, landscaping, and trash receptacles to improve the safety and comfort of the pedestrian experience.

Crossing Safety Enhancements



High Visibility Paint, Flashing Signals, Pedestrian Safety Island, Curb Extensions, or Bulb-outs to create short crossing distances and increased awareness of crossing locations.

Bike Share Programs



Low-cost, short-term bike rental from strategically placed docks or stations.

Bike/Ped Traffic Controls



Leading Pedestrian Interval, Bike crossing signals, No turn on red signals, signals and controls to reduce conflicts between pedestrians, bicyclists, and drivers.

Initial List of Projects & Programs: Arterial Roadway

Active Transportation

Arterial Roadways

Community Programs

Freeway

Goods Movement

Transit

Arterial Roadways Sub-Categories:

- 1. Complete Streets*
- 2. General Local / Regional Roadway*
- 3. Signal Coordination / TSM / ITS*
- 4. Traffic Calming*

Initial List of Projects & Programs: Arterial Roadway

Project Types Include:

Complete Streets

- New green spaces, trees, bioswales
- Bike and pedestrian improvements
- Public art
- Signage
- Transit stop amenities (furniture, shelters)
- Operational / safety improvements
- ADA upgrades
- LED street lighting
- Stormwater retention

Traffic Calming

- Speed Reductions
- Speed Bumps
- Truck Restrictions in Neighborhoods
- Roundabouts
- Road Diets
- Stop Signs, Traffic Signals
- Speed Enforcement Cameras
- Flashing Crosswalks
- School Zone Warning Devices

General Local / Regional Roadway

- Stormwater treatment
- Upgrade traffic signals, crosswalks, sidewalks, driveways, curb ramps, etc.
- New/improved bridges
- ADA upgrades
- Intersection Improvements
- Pedestrian circulation and safety
- Streetscape improvements
- Bike and pedestrian improvements
- Roadway widening/realignment

Signal Coordination / TSM / ITS

- Traffic / Ped signal upgrades
- Video camera installation
- Equipment upgrades
- Emergency vehicle priority
- Signage
- Signal Synchronization
- Advanced technologies to manage traffic and to inform traveling public



Intersection Improvements



Turn lanes and other design features to reduce traffic queues at congested intersections.

Traffic Calming Features



Roundabouts, speed humps, and other design features or signage to slow traffic on local streets or near schools.

Traffic Management Features



Traffic signal coordination on major arterial corridors to maximize "green time" based on actual traffic conditions.

Added Roadway Lanes



Roadway reconfiguration to add travel lanes, designate parking lanes for peak hour travel lanes, or establish bus only lanes

Visual Improvements



Landscaping, hardscaping, public art, and other design features to improve the appearance of the roadway.

Initial List of Projects & Programs: Community Programs

Active Transportation

Arterial Roadways

Community Programs

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Community Programs Sub-Categories:

- 1. Job Creation / Work Opportunities*
- 2. Air Quality / Community Health*
- 3. Environment*
- 4. Housing Stabilization / Land Use*

Initial List of Projects & Programs: Community Programs & Policies

Program Types Include:

Job Creation / Work Opportunities

- Targeted Local Hire
- Employment Recruitment Initiatives
- Vocational Educational Programs
- Economic Stabilization Policies
- Workforce Education & Development
- Partnerships with Employers
- Partnerships with Academic Institutions

Environment

- Greenhouse Gas Emissions Reduction
- Renewable Energy / Solar Power Project
- Urban Greening, Tree Canopy, Green Space
- Greenbelts, Drought Tolerant Planting Parklets
- Habitat Restoration and Connectivity
- Public Art / Aesthetics
- Zero Emissions Infrastructure for Autos

Air Quality / Community Health

- Zero Emission Infrastructure for Autos
- Bus Electrification
- Community Health Benefit Programs
- Air Filters for Schools & Community Facilities
- Environmental Building Improvements
- Health Education / Outreach
- Community Health Screening
- Vegetation Barriers/Buffer Landscaping

Housing Stabilization / Land Use

- Housing / Rent Stabilization Policies
- Anti-Displacement Programs
- Rental Assistance Programs
- Inclusionary Housing
- Transit Oriented Communities
- Homeless Programs
- Partnership with Community Orgs
- Density Bonus Programs
- Community Land Trusts
- Grant Writing Assistance



Health Benefits Program



Air filters for schools or vegetation buffers to reduce the harmful effects of air pollution.

EV Car-Share & Charging



Programs to provide short-term rental of electric vehicles and charging infrastructure for Zero-emission personal vehicles and trucks.

Local Hire and Workforce Development



Targeted and local hire programs to increase the share of public dollars that is devoted to creation of local jobs in the communities, and education/training of the local workforce.

Anti-displacement Strategies



Affordable housing policies, low-income rental assistance programs, tenants' rights education and legal representation to prevent unjust evictions.

Community Development Programs



Incentive programs to build affordable and mixed income housing, development of local parks, and other community resources

Initial List of Projects & Programs: Freeway

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Freeway Sub-Categories:

- 1. Congestion Pricing Option*
- 2. Freeway Amenities / ITS*
- 3. Freeway Improvements*
- 4. Zero Emissions Lanes on I-710*

Initial List of Projects & Programs: Freeway

Project Types Include:

Congestion Pricing Option

- Congestion Pricing to charge single occupant vehicles while carpools, buses, zero emissions trucks and zero emissions autos would travel free.

Freeway Improvements

- Interchange Improvements
- Ramp Safety & Redesign
- Auxiliary & Operational Lanes
- Traffic Controls to Protect Bikes / Peds at Freeway Ramps
- Truck Bypass Lanes
- Freeway Lids, Caps, and Widened Bridge Decks to Provide "Greenbelt" Connections over I-710/LA River

Freeway Amenities / ITS

- Particulate Matter Reduction Pilot Project
- Freeway Repair & Safety projects
- Soundwalls
- Drought Tolerant Landscaping

Zero Emissions Lanes on the I-710

- Zero Emission Truck Travel Zone Restrictions
- Zero Emissions Truck Lanes

Project & Program Summary

Freeway Improvements



Interchange Improvements



Introduce improvements that make it safer and easier for vehicles to get on and off the freeway.

Landscaping Features



Incorporate landscaping, hardscaping, and other design features along the freeway to improve visual experience.

Zero-emission Truck Lane



Create a dedicated lane on the freeway just for zero emissions trucks.

Traffic Signals



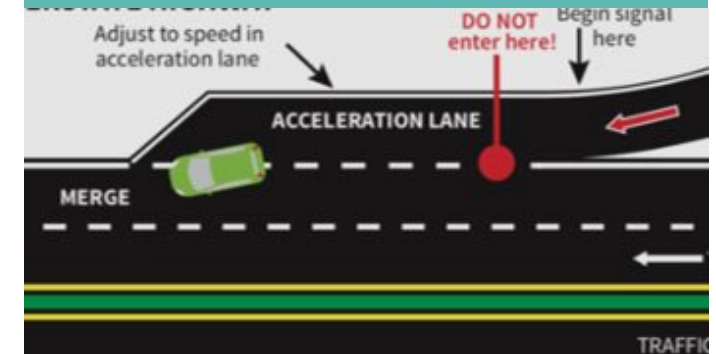
Control features, such as traffic signals, to protect bicyclists and pedestrians at the freeway ramps.

Sound Wall Improvements



Higher sound walls along the freeway to reduce noise.

Design Improvements



Spot improvements, such as acceleration/deceleration lanes near interchanges, to relieve congestion bottlenecks.

Initial List of Projects & Programs: Goods Movement

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Goods Movement Sub-Categories:

- 1. Freight Rail / Goods Movement TDM*
- 2. Ports*
- 3. Truck Programs / ITS*

Initial List of Projects & Programs: Goods Movement

Project Types Include:

Freight Rail / Goods Movement Travel Demand Mgmt.

- On Dock Rail Expansion
- New Inland Port, Greater Use of Freight Rail
- Port Railyard Expansion & Modernization
- Freight Rail Grade Separations

Ports

- Interchange Improvements
- Grade Separations
- Roadway Realignment, Safety, and Landscape Improvements
- Wharf Expansions & Vessel Emission Reductions
- Cargo Operational Efficiencies

Truck Programs / Intelligent Transportation Systems

- Zero Emissions Truck Programs
- Zero Emissions Infrastructure
- Empty Container Management
- Use of Advanced Technologies to Optimize Sequencing of Container Delivery and Pick-Ups to Reduce Congestion near Railyards & Ports



On-Dock Freight Rail Facilities



Freight rail infrastructure in port facilities to reduce truck trips associated with goods movement.

Short-haul Freight Rail



Inland port/implement short-haul freight rail service to encourage greater use of freight rail.

Zero Emissions Trucks



Program to reduce diesel trucks in favor of zero emissions trucks

Initial List of Projects & Programs: Transit

Active Transportation

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Transit

Transit Sub-Categories:

- 1. High-Capacity Transit (Rail/BRT)*
- 2. Transit Amenities*
- 3. Bus Transit*
- 4. Rail Line / Station Improvements*

Initial List of Projects & Programs: Transit

Project Types Include:

High-Capacity Transit (Rail/BRT)

- New light-rail stations/lines
- Light Rail line Extensions
- Bus Rapid Transit project

Transit Amenities

- Bus shelters and lighting
- Transit security features
- Web app for transit times
- Transit discounts / free passes
- Transit education program
- Customer experience program
- Real time displays
- Transit Cleaning & Maintenance
- Station furniture and shade
- ADA improvements
- Traffic control for pedestrians and bikes

Bus Transit

- Express Service
- Shuttles
- Electric bus charging
- On-demand bus (Micro-Transit)
- Improve bus speeds
- Increased bus frequencies
- Bus Priority Lanes
- Bus electrification projects

Rail Line / Station Improvements

- Station improvements
- Signal prioritization for trains
- Station maintenance
- Pedestrian safety improvements at stations
- Improved bike/ped connections
- Train reliability improvements
- Grade separations for trains

Transit (Bus or Rail) Improvements



Transit Service Improvements



Additional transit routes or increase in frequency of existing services to reduce waiting times at bus stop and train stations.

Bus Priority Lanes



Bus priority lanes on local streets to improve bus travel times and reliability.

Improved Transit Amenities



Improved amenities such as lighting, security cameras, shelters at bus stops and at train stations.

Transit Fare Discounts



Increased transit fare discounts for low-income riders, students, and seniors.

Shuttle Services



On-demand transit shuttles (shuttle rides by appointment) in more communities.

Bus Boarding Improvements



Improvements for more efficient bus stopping and boarding such as all-door boarding, and/or design features such as bus bulb-outs or boarding islands