

Meeting Purpose

WORKING DRAFT

- Provide overview of project and status
- Share new information
 - New operating plan and regional and local benefits
 - Community poll
- Understand cities' vision and goals





WORKING DRAFT

- Project history, purpose & benefits
- Stakeholder engagement & polling
- Draft EIR Comparison of Alignments & Alternatives to Project
- Discussion & Next Steps





Project Overview

One of Four Pillar Projects in LA County

- Funded by: Measure M & R, TIRCP Grant, Local Match
- 2030-2033 Measure M Opening Year
- Origins in Proposition A (1980)

Connects South Bay to rail system via K Line

- 4.5-mile light rail extension connecting South Bay
- Two new stations to connect to two bus centers
- One-seat ride to LAX, Inglewood, and Metro E Line
- Projected daily trips: 11,500-15,600
- Travels through Lawndale, Redondo Beach, Torrance





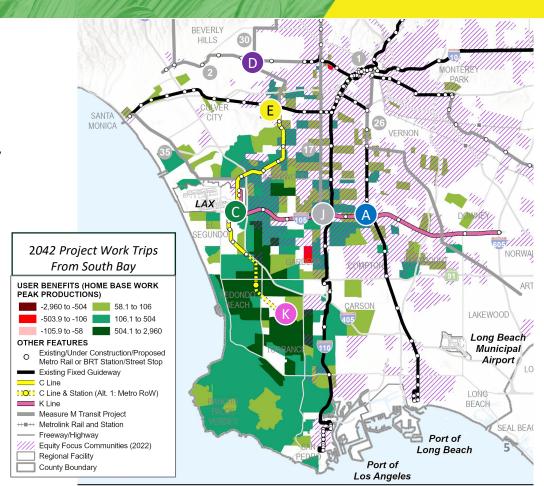
Project Purpose & Benefits

Improve mobility, reduce travel times and meet travel demand as South Bay grows

- Significant jobs center (jobs projected to grow 2x faster than population)
- Congested area, projected to worsen by 30% in 2045 (SCAG)
- Infrequent bus service

Provide equitable access to regional destinations, jobs, schools, etc.

Reduce air pollution and greenhouse emissions by making transit a viable choice





WORKING DRAFT

Access to Regional Connections & Local Bus Centers















Significant Travel Time Savings

South Bay	Travel Time By Rail	Travel Time by Car (Afternoon Peak)			
LAX (AMC/96th)	19 minutes	30-66 minutes			
Downtown Inglewood	23.5 minutes	25-55 minutes			
SoFi Stadium	28 minutes	25-55 minutes			
Expo Line (Expo/Crenshaw)	34.5 minutes	30-66 minutes			
Downtown LA (7th/Metro Center)	58.5 minutes	40-85 minutes			
Downtown Santa Monica	63.5 minutes	45-110 minutes			

Source: AECOM, STV, 2020, Travel time by vehicle based on google maps driving times in 2023.





Extensive Outreach (2021 to Present)

- Invested in variety of outreach tools during COVID
- All materials in English and Spanish
- 23,000+ views of videos & 11,000+ views of StoryMaps
- Expanded project noticing to 1-mile area (47,000+ properties)
- 1,800+ people at several rounds of public meetings
- Bus Transit Rider Intercepts: 100+ riders
- Door-to-Door Business Outreach: 520+ businesses
- Multiple pop-up events and briefings







Stakeholder Input Themes



Noise and Vibration



Property Impacts and Values



Traffic and Parking



Community and Visual Aesthetics



Public Safety



Landscape/ Greenspace



Stations and Connectivity



Ridership



Public Perception Poll in Project Area

- Conducted poll in April/May 2023 of residents in Lawndale, Redondo Beach & Torrance
- Randomized dialing of cell and land lines
- Metro not revealed as sponsor of poll
- Sample Size: 670 participants
 - Torrance: n=249
 - Redondo Beach: n=200
 - Lawndale: n=221





Survey included

Familiarity w/ Project

How familiar are you with Metro's Green Line (also called "C" Line) light rail extension from Redondo Beach to Torrance?

- Very familiar
- Somewhat familiar
- Never heard of it

Support for Project

How much do you support or oppose Metro's Green Line (also called "C" Line) light rail extension from Redondo Beach to Torrance?

- Strongly support
- Somewhat support
- Neither support nor oppose
- Somewhat oppose
- Strongly oppose

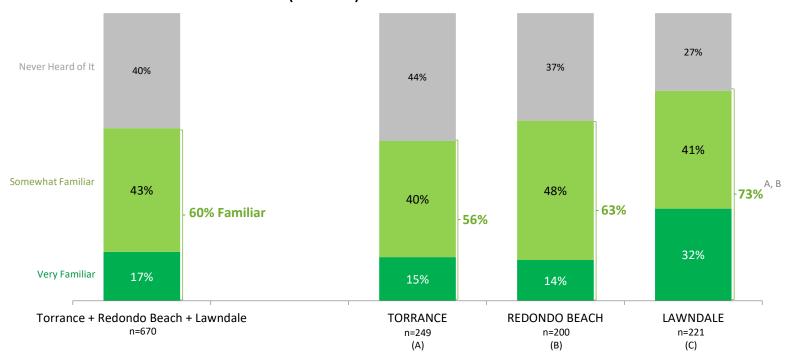
Demographics

- Gender
- Age
- Race & Ethnicity
- Income
- Employment
- Education
- Car Ownership
- Commuting Mode
- Zip Code
- Metro Riding Frequency



Majority of residents are familiar with the C Line Ext

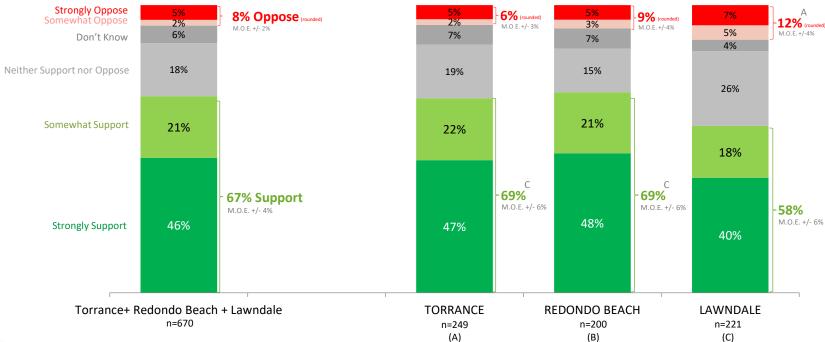
% Familiar WithC Line (Green) Extension to Torrance





Majority of residents support the C Line Extension

% Support/Oppose C Line (Green) Extension to Torrance





Summary of Poll

- 60% of residents are familiar with the Project.
- 67% of residents support the Project.
- 8% oppose—with a margin-of-error of +/- 2%
- Support for Measure M (ballot measure) in 2016:
 - Lawndale: 73% of voters
 - Redondo Beach: 60% of voters supported
 - Torrance: 55% of voters supported





Alignments & Alternatives Studied in Draft EIR

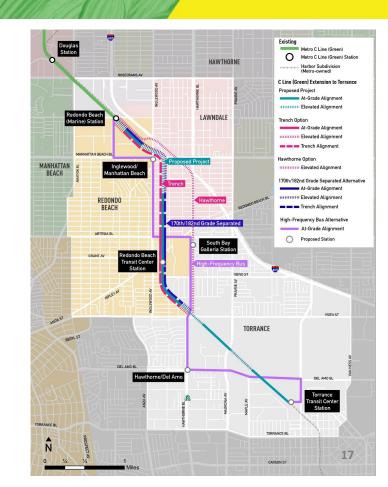
Draft EIR evaluates three light rail alignments:

- Metro ROW (Elevated/Street Level)
- 2. Trench Option
- 3. Hawthorne Blvd Option

South of 190th Street, all three alignments are the same.

Draft EIR includes three Alternatives to Project to avoid or lessen environmental impacts generated by Project:

- 1. Metro ROW 170TH/182ND St Grade Separated Light Rail Alternative (Metro ROW "Hybrid")
- 2. High Frequency Bus
- 3. No Project





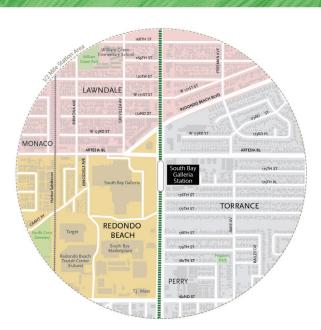
Potential Station Locations





Along ROW south Grant Ave Direct rail/bus transfer





South Bay Galleria:

Along Hawthorne Blvd Lacks connection to RBTC, approx. ½-mile walk



Torrance Transit Center:

Along ROW
Terminus Station
Direct rail/bus transfer

Community Oriented Design & Mitigations







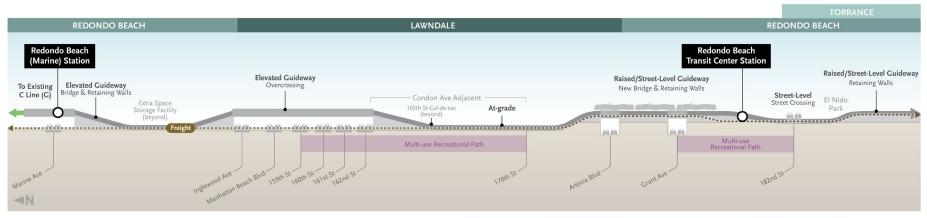


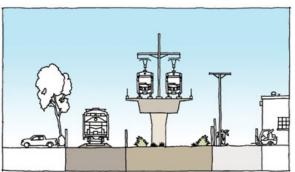


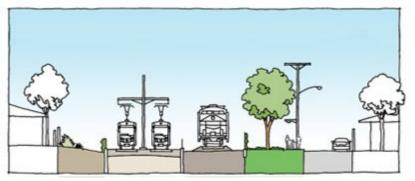




Metro ROW Elevated/At-Grade





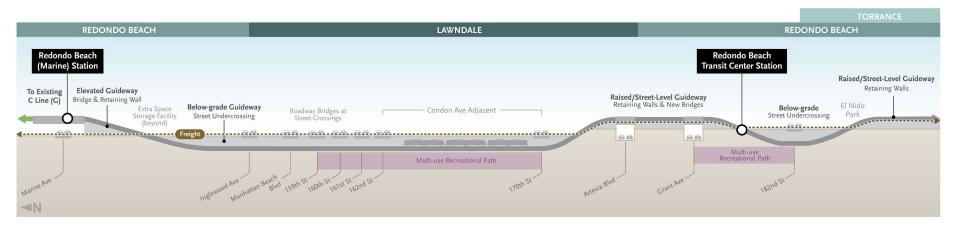


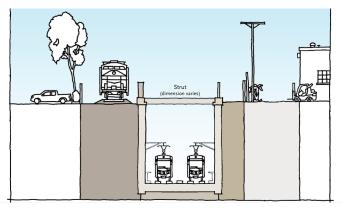


Metro ROW Elevated/At-Grade

- Uses Metro ROW for entire length
- Directly connects to new bus centers
- Adds 3 new neighborhood paths (one per city)
- Upgrades freight crossings to be "quiet zone ready" to reduce noise/vibration and enhance safety
- Includes sound walls and special trackwork to mitigate light rail noise
 - Significant long-term noise impacts at 170th St
- Concerns of delays at 182nd Street (emergency responder route)
- Concerns of freight shifting closer to senior living
 community near Grant Ave



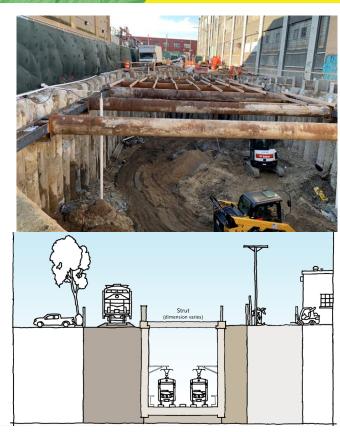




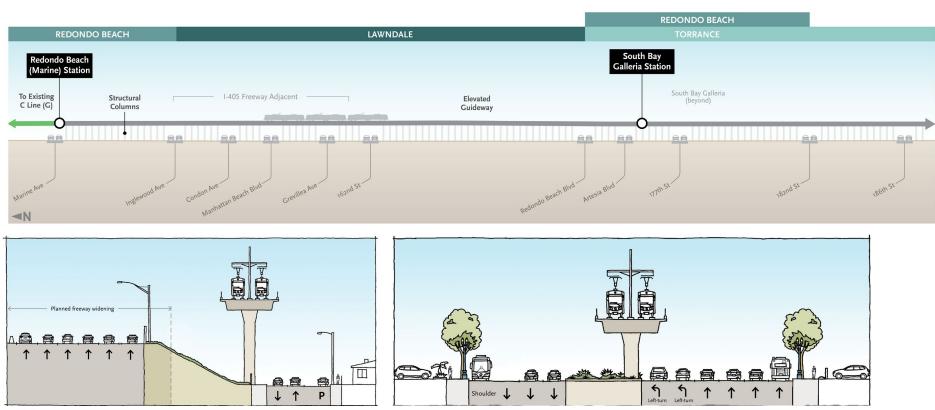


Trench Option (Metro ROW)

- Uses Metro ROW for entire length
- Light rail is separated from street (1.8-miles of trench)
- Directly connects to new bus centers
- Adds 3 new neighborhood paths along ROW (one per city)
- Provides "quiet zone ready" freight improvements
- Includes sound walls and special trackwork to mitigate light rail noise. No significant long-term noise impacts.
- Results in air quality impact during construction
- Requires deep trench in north due to utility conflicts
- Requires sump pump due to high ground water
- Complex construction with secant walls near residential
 Mand freight. Longest construction period.



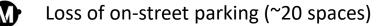
Hawthorne Option (Caltrans ROW)





Hawthorne Option (Caltrans ROW)

- Travels within Caltrans ROW along I-405 and Hawthorne Blvd.
 - Encroachment approval not secured
 - NEPA clearance required (2+ years)
- Light rail is fully separated from street
- Highest # of property acquisitions
- Major utility relocations (power lines, storm drain)
- Lane closures during construction (5-7 years) affecting:
 - 170+ businesses along corridor
 - 70,000 vehicles trips/day
- Lacks direct connection to RBTC





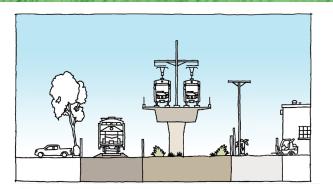


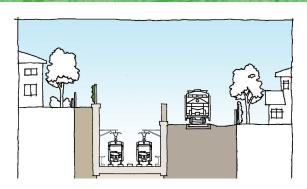


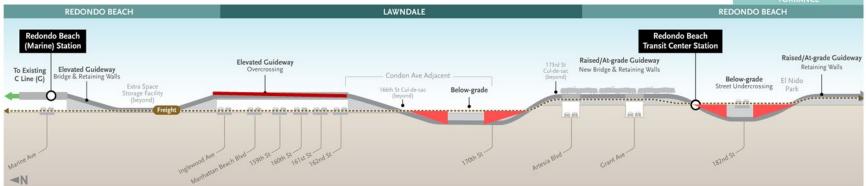
Southern Segment of Project Area

All Alignments travel along Metro ROW south of 190th **Street to Torrance Transit Center** Marine Ave Redondo Beach (Marine) Station Redondo Beach Blvd 182nd St Redondo Beach **Transit Center Station** 190th St 190th St **Torrance Transit** Center Station Metro

Metro ROW "Hybrid" (Alternative to Project)







170th St

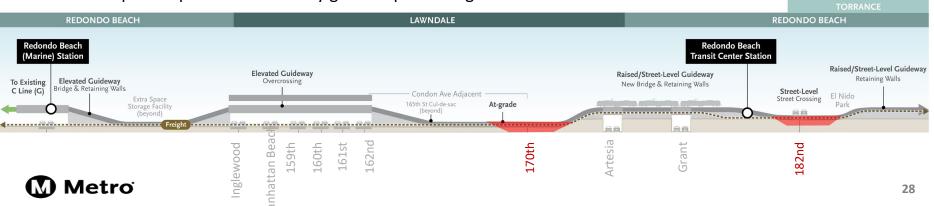
182nd St



Not to Scale

Metro ROW "Hybrid" (Alternative to Project)

- Travels along Metro ROW for entire length with direct connections to new bus centers
- Includes 3 new walking paths, "quiet zone ready" improvements, sounds walls and noise mitigations
- Recommends two grade separations at 170th and 182nd to:
 - Eliminate significant long-term noise impacts at 170th St.
 - Avoid delays to emergency responders at 182nd St.
 - Eliminate shift of freight towards senior living community near Grant Ave
 - Enhance safety at rail crossings along school routes
 - Improve operations with fully grade separated light rail line



High Frequency Bus Alternative

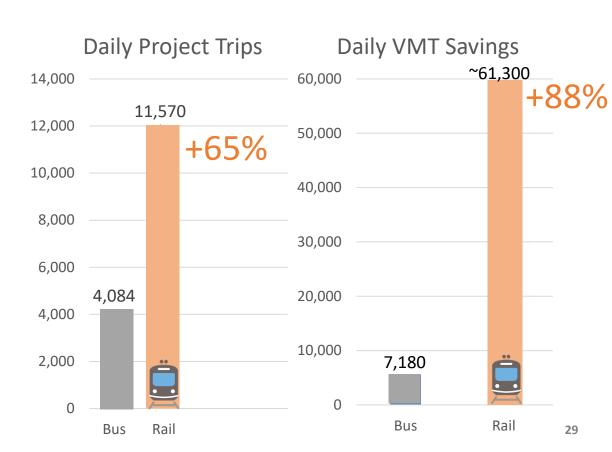
Overview

- Connects Redondo
 Beach (Marine) Station to

 Torrance Transit Center
- 4 stops
- 10-minute headways at peak
- Street-running w/ signal priority, pending local approvals

Findings

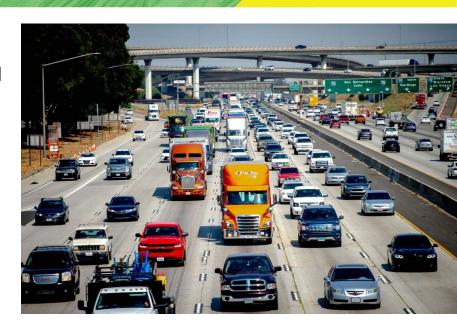
Rail outperforms bus





No Project Alternative

- Does not meet project need and objectives
- Inconsistent with local and regional plans for rail
- Potential loss of \$231M TIRCP Grant
- Loss of ridership: 3.6 million project trips/yr
- Reduced access for 1.49 million new riders/yr
- Fails to reduce 19.5 million VMT/yr
- Fails to reduce GHGs: 2,369.4 MTCO2e/yr
- South Bay could lose opportunity for future rail
- Significant & unavoidable long-term impacts:
 - Transportation
 - Energy
 - Land Use
 - Air Quality & GHG emissions





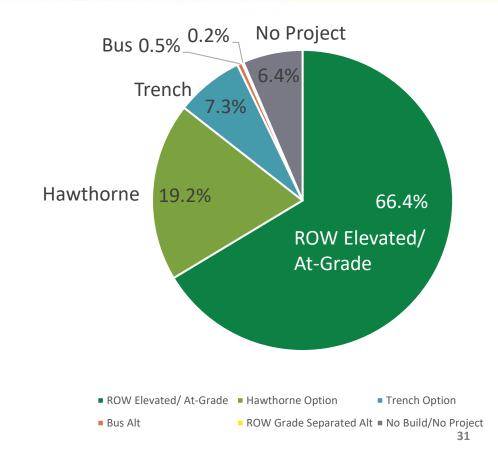
DEIR Comments Summary

Received 2,200+ comments

- 1,857 individuals
- ~13% address Draft EIR or environmental issues

1,850 comments are alignment preferences

- 1,228 ROW Elevated/ At-Grade
- 355 Hawthorne Option
- 135 Trench Option
- 119 No Project Alt
- 10 High Frequency Bus Alt
- 3 Metro ROW Hybrid Alt





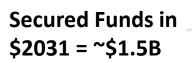
Project Schedule Comparison

					Measure M (2030-2033)										
Project Schedule*	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	
Metro ROW (Elevated/At-Grade)	CEQA		Desig Contrac		BNSF &	& Utility cation	Construc	ction				Sep-33			
Metro ROW (Hybrid) Alternative	CEQA		Design/ Contrac		BNSF &	& Utility cation	Construc	ction					Dec-34		
Trench Option	CEQA		Desig Contrac		BNSF 8	& Utility cation	Construc	ction							Jan-36
Hawthorne Option	CEQA		Caltrans	PA&ED	Desig Contrac			& Utility cation	Construc	tion				Sep-35	

- Construction schedule includes 25% contingency per FTA between start of final design and start of operations.
- Current construction schedule is unconstrained by funding.
- A funding plan and updated construction schedule will be prepared after the Metro Board selects a Locally Preferred Alternative to advance into final design and construction.

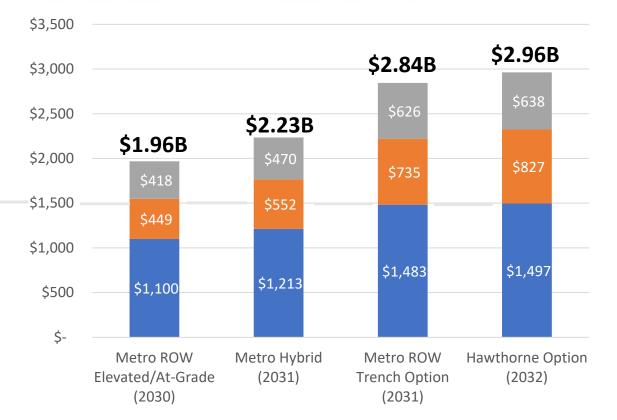


Construction Cost Comparison



Follows FTA Guidance
Based on 15% Design
Blue= 2022\$ Costs
Orange= Escalation 3.5%
Grey = Contingency (40%)

Escalation is set to midpoint of construction, which varies by alignment.





Project Funding

Funding Sources Secured	Funding Amount			
Measure R (2008)	\$272 million			
Measure M (2015)*	\$619 million			
TIRCP Grant (2018)	\$231 million			
3% Local Match Requirement	\$59 million			
Current estimate based on 15% design for Metro				
ROW Elevated/At-Grade. Local contribution to be				
established at 30% design.				
Total	\$1.18 billion			
Total Escalated to 2031 (mid-point of construction)	\$1.55 billion			

^{*}Actual funding amount for Measure M will depend on when Measure M is expended and the actual increase in sales tax.





Jan > Feb > March > April > May > June > July > August > Fall

Released Draft EIR & Technical Reports 61-Day Comment Period With 5 Public Hearings

Review Comments & Survey Data Prepare Staff Recommendation Stakeholder Briefings Metro Board



Project Contact Information



Georgia Sheridan, AICP Senior Director, Mobility Corridors sheridang@metro.net

Mark Dierking, Community Relations Manager Gateway/South Bay Local Government & External Affairs dierkingm@metro.net



213.922.4004



greenlineextension@metro.net



Metro.net/clineext



@metrolosangeles





losangelesmetro



Bit.ly/cletstory (Storymap)



Bit.ly/cletvideo (3D Video)



Metro.net/clineext/#documents (DEIR & Project Materials)