

Link US and LOSSAN North LA County Projects

LOSSAN TAC Meeting

September 3, 2020



Link US Project Video



- 1. The video is meant to inspire a creative vision for a world class transit station at Union Station
- 2. Proposed buildings shown are NOT part of the Link US project. Future development shown will be in later phases.



Visual representation of the passenger concourse and other elements are conceptual
 renderings that are not funded and subject to change through future design and preliminary engineering.

Union Station - The Link to Southern California





Los Angeles Union Station Today

Built in 1939 | Largest model hub in Southern California

Regional Rail Network Integration



Link US Project Anticipated Benefits

What will Link US Provide?



Link US Project Overview

Regional Rail at Los Angeles Union Station

Carrier	Service	# of Weekday Passengers (2020)	# of Weekday Trains (2020)	Estimated Number of Weekday Trains (2040**)
Metrolink	Riverside	2,600	12	22
	91 / Perris Valley Line	2,288	11	23
	Antelope Valley	4,589	30	48
	Orange County	7,038	23	41
	San Bernardino	7,543	38	48
	Ventura	3,143	33	51
LOSSAN	Pacific Surfliner	5,116	26	38
Amtrak	Southwest Chief; Coast	540	5	9
	Starlight; Sunset Limited; [2040 includes future Coast Daylight, Coachella Valley]		40%	increase
M Met	Total	32,857	178	280

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Link US Project Overview

One Seat Ride Benefits to LOSSAN

- Reduce dwell times from 20 minutes (on average) to 10 minutes or less
- Increased service capacity by 40%
- Reduce running time with a new entry from the south into Union Station
- Improved on-time performance, schedule reliability and recovery from delay





Link US Project Overview (Phases A & B)



Phase A - Funded

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SEGMENT 1 – THROAT AREA	SEGMENT 2 – COMMERCIAL & CENTER ST	SEGMENT 3 – VIADUCT & RUN-THROUGH	SEGMENT 4 – RAIL YARD/CONCOURSE AREA
 Rail signal, communications and track work Utility relocation 	 Property acquisition Utility relocation Street and ATP improvements 	 Viaduct structure over US-101 (full width) and south of US-101 to 1st Street. Two run-through tracks from Union Station Platform 4 to mainline tracks 	 Raising of the rail yard, including new platforms and tracks, new stairs, escalators and elevators, and new bridges over Cesar Chavez Avenue and Vignes Street. Proposed modified expanded passageway, including including



passageway, including including East and West Plazas



3. Add remaining run-through tracks and new lead track in the throat

Link US Phase A (Funded)



Key Project Components

- 1. New rail communication, signals and early tracks to be performed by Metrolink
- 2. Utility relocation and street improvements
- 3. Platform #4 and Viaduct structure over the US 101 freeway



Link US Phase B (Not Funded)

- Raising of entire rail yard from the Vignes St Bridge by up to 15 feet
- 2. New platforms and expanded passageway with retail and passenger amenities including escalators and elevators to all platforms
- 3. Optimization of the throat with a new lead track
- Completion of the remaining run-through tracks over US-101 freeway





Phase B - HSR Accommodation

Concept of future HSR operations at Los Angles Union Station

<u>Stage 1</u> – HSR trains operate on 2 tracks (Tracks 4 and 5), and share Platforms 2 and 3 with Metrolink and Surfliner trains.

Stage 2 – HSR trains operate on 3 tracks (Tracks 3 to 5), use Platform 2 exclusively, and share Platform 3 with Metrolink and Surfliner trains.

<u>Stage 3</u> – HSR trains operate on 4 tracks (Tracks 3 to 6), use Platforms 2 and 3 exclusively (pending SCRRA coordination and approval).



Concept Drawings – Subject to Change

Phase B - HSR Accommodation

Concept of future HSR operations at Los Angles Union Station





Concept Renderings – Subject to Change

- 1. Due to different floor heights between Metrolink and HSR Trains (15" vs 51" floor to top of rail), Platforms 2 and 3 will be constructed at the ultimate height for HSR trains (51" floor height).
- 2. Additional retaining walls will be constructed to allow for future lowering of tracks to be used by HSR without impacting adjacent tracks.
- 3. No modifications to elevators, escalators or stairs are needed in the future to accommodate HSR.

Link US Funding Plan (Phase A)

Funding Source	Amount (\$ in millions)
State Proposition 1A/High Speed Rail Bonds	\$423.335
State Transit Intercity Rail Capital Program (TIRCP)	\$337.571
State Transportation Improvement Program (STIP)	\$60.820
Measure R	\$51.672
SCRRA JPA Contribution (Non-Metro)	\$40.000
Other HSR Funds	\$18.726
Measure M	\$13.274
LOSSAN/Amtrak	\$5.000
Total	\$950.398

Metro's funding partners includes CHSRA, CalSTA and SCRRA



LINK US PHASE A PROJECT

Area 3 – Run-through Track Structure South of Union Station



LINK US PHASE A PROJECT

Area 4 - BNSF Yard – Project Elements



Link US Project and BNSF Malabar Yard



- The proposed Link US runthrough tracks at Los Angeles
 Union Station will require removal and displacement of a portion of the storage tracks in the BNSF West Bank Yard located south of Los Angeles Union Station.
- 2. The proposed project at the **BNSF Malabar Yard** is to replace and offset the loss of storage capacity at the BNSF West Bank Yard, including:
 - A. 49th Street Closure
 - **B.** Los Angeles Junction (46th Street) Connector

BNSF Malabar Yard – Goods Movement



- 1. The proposed Malabar Yard improvements support the preservation and long-term growth potential of both regional and local goods movement and related economic activity.
- 2. Closure of 49th street allows Malabar Yard to serve as an uninterrupted storage yard for intermodal train cars to be relocated from the existing West Bank Yard. Absent this storage capacity, intermodal cars would have to be moved daily to Barstow, reducing overall capacity of the shared passenger/freight rail network and creating increased economic and environmental costs.
- 3. Construction of the 46th street connector maintains current levels of service and creates new capacity to local customers by providing direct access to LA Junction which will handle local box and tanker train car operations to be relocated from Malabar Yard.

Link US CMGC Procurement Timeline

Dates Subject to Change



Rail Multiple Unit (RMU) Pilot Program



Metrolink AVL 30 Minute Service Vision





SCORE - LOSSAN North Corridor Improvements – September 2020







Capital Improvement Program to improve the regional rail system in time for the 2028 Olympic and Paralympic Games and beyond.

Benefits:

- More safety improvements at stations and grade crossings
- More rail service -- enables trains to operate at least every 30 minutes in either direction
- More upgraded crossings = Quiet Zone-ready corridors
- More seamless connections to other rail providers



SCORE Timeline

SCORE California Calif



 Individual projects will start and complete the environmental process and construction at different times

Link US and RYRM Project

SCORE Suthern Optimized Rei Banson

- Link US Project Segments
- Segment 1: Throat
- Segment 2: Concourse
- Segment 3: Run-Through

- Modernization to CP Mission, CP Terminal, and Lead tracks within the Throat
- The design phase is complete and the project is in construction procurement.
- RYRM project is being led by Metrolink.

Burbank to LA Signal Improvements

- Burbank to LA Signal improvement projects makes application program changes to allow for additional capacity between Burbank to Los Angeles, and will increase speeds of all trains creating more fluid operations along this critical corridor
- The project is in the final design phase. Target implementation of the application program changes by end of 2021.
- Project is being led by Metrolink.

Burbank Junction Speed Improvements

SCORE Southern California Optimized Rail Expansion

- Burbank Junction Speed Improvement project will increase speeds of all trains and create more fluid operations at this critical junction
- More reliable service and reduced commute times for passengers.
- Projects are being led by Metrolink.

Chatsworth Station Improvements

- Improvements to the pedestrian crossing that provide an operational benefit and eliminate the 'Hold-out' rule, and allow passengers to make quicker and safer transfers, which can reduce train idling and commute times
- Project is being led by Metrolink.

Simi Valley Second Track and Platform

SCORE Southern California Optimized Rel Exponsion

- Added track and new platform will increase capacity and enable increased train service at least every 30 minutes in either direction
- Protected pedestrian crossing will provide for safer rail crossings at the station
- Safety upgrades to at-grade crossings that will create Quiet Zone ready corridors and will minimize train horn blowing
- Track upgrades will improve safety and reliability of Metrolink service
- Project is being led by Metrolink.

Metrolink Community Contacts

General Community Relations Contact

Sylvia Novoa

Government Affairs/Community Relations Manager Email: NovoaS@scrra.net Office: 213-452-0300 Cell: 213-503-3272

SCORE Program Manager

Elizabeth Lun

Assistant Director SCORE and Design Email: lune@scrra.net Office: 909-929-2360 Cell: 213-598-8953 SCORE Southern Colifornia Optimized Roil SCORE Buthern Optimized Expension THANK YOU

GET MORE WITH SCORE

UNION PACIFIC-LOSSAN UPDATE

UP Santa Barbara Sub Review

September 3, 2020

Amtrak Train Performance Summary

Pacific Surfliner On-Time Performance (OTP)

Solid Performance:

 UP-OTP remains strong YOY

Improvements:

 UP host delay minutes decreased

Opportunities:

- PTI meets on the Santa Barbara subdivision
- UP slow order minutes increased

UP-OTP is contractual on-time performance and COTP is customer on-time performance

Pacific Surfliner

Delay per 10K – UPRR Only by Category

*Data based on June 2019 through June 2020

UNIO

LOSSAN-UP 2020 agreement Add 2 roundtrips on existing route

LOSSAN has requested to add two new round

- trips between Moorpark and Santa Barbara (Goleta), one continuing to San Luis Obispo
- UP-LOSSAN cooperative partnership to:
 - Strengthen infrastructure on the Santa Barbara Sub
 - Invest in capacity to accommodate additional roundtrips, protect on-time performance
- Key advantage: Project agility
 - Where costs go up/down & resources are shared, can adjust scope/timing
- Capacity Enhancements
 - Complete CTC on remaining route Goleta-San Luis Obispo including powering up sidings for meets (except Gaviota, all sidings north of Goleta are manual meet points)
 - Construct capacity project in Santa Barbara-Moorpark bottleneck
 - UP investments: Enhancements for freights: power derail, lengthened siding, full-size doublestack/transformer clearance

Santa Barbara Sub – Projects Overview

3-pronged approach: Strengthen, targeted new capacity, O&M maintainability

- 1. Infrastructure Renewal/Hardening
 - Replace 2 Bridges
 - Replace pre-1949 Rail
 - New Ties •
 - Ongoing Surfacing, Other M/W new tamper, section gang . & welder
 - Corridor Hardening •
 - Slope stabilization
 - Communications towers
 - Fencing/safety and Establish Safety Fund

2. **Corridor Improvements**

- CTC 105 Miles and Power/upgrade sidings: Guadalupe • south in 1st half of 2021; Goleta north in remainder of 2021, finish remaining portions 2022
- Capacity Project Moorpark-Santa Barbara for 2nd roundtrip •
- Expand Pacific Surfliner layover facilities •
- **Operating & Maintenance** 3.
 - Engineering gang, equipment and dispatching

ENGINEERING PROJECTS

Bridge Upgrades New structures to increase speed from current operations

- Replacement of large bridges
 - Current speeds = 25 MPH, future speed = 40-60 MPH
- Pacific Surfliner trains have been majority user over the past 5-10 years
- Narlon bridge (Los Alamos Creek): MP 291.3
 - Construction 2020-early 2021
- Honda bridge (Canada Honda Creek): MP 304.9
 - In design for 2020; construction 2022
- Next phase Cementerio Creek, MP 336.5
 - Commitment by LOSSAN to fund as part of next agreement

Narlon Bridge Location Remote location on Vandenberg AFB

- Permitting: up to 3 years depending on site (Completed)
- Design phase: 6-8 months (Completed)
- Review & pre-construction:
 3-4 months (Completed)
- Bid: 1-2 months (Completed)
- Construction: 4-12 months (in progress)

Narlon will have a temporary low-level bridge during construction

Honda Bridge Location Also located on military property

Rail & Ties Renewal

5-yr overall program: \$24M capital + \$5M maintenance

- Replace pre-1949 rail: \$15.1M
 - 33 miles of new rail; \$454K per mile
 - Identified as key priority for engineering
 - Relay rail to sidings/other tracks as needed
- Tie replacements (130K): \$9M
 - Multiyear program
- Surfacing, Tamper lease, Dedicated maintenance gang: \$5M
 - Tamper to set down track & reduce settling slow orders
- Flexibility for program work
 - Schedule work windows in "shadow" of other curfews (i.e. bridge replacement)

Safety Improvements Fencing, Slope stabilization, telecomm

- Fencing: Add high-security fencing to frequent trespass areas
 - MP 273, 379, 396: New/higher strength fencing same/similar to that used by Northeast commuter roads, Illinois DOT
 - Work with cities to establish pedestrian routes, close off shortcuts across tracks
- Slope stabilization: Concepcion, MP 320-325
- Telecomm towers
- Fiber optic lines
 - Various locations

Capacity & Infrastructure Projects

Santa Barbara Sub north – CTC key sidings

Retain other sidings for future use

un 7 of 12 sidings

UNION

- Power up 7 of 12 sidings
 - Key Passenger train meet locations (Waldorf, Devon, Tangair)
 - Longer sidings for freight train meets (Honda, Narlon, Concepcion)
 - 1 additional siding (Callender) to break up long 25-mile stretch between San Luis Obispo & first CTC siding. Power up far south switch on lead and siding becomes 9,000'
- Power up switch & add power derail at south end of Guadalupe yard – clear main track faster
- Install electric locks/leaving signals on remaining sidings to preserve for future use

Callender siding extension and power-up

- Create ~9,000' clear siding by renewing south end (currently a lead track) and incorporating into siding
- Allows for long train meets (>8,000') where none exist now. Approximate midpoint between San Luis Obispo terminal and next siding >6,000'
- Retire crossover which currently serves as end of siding

Convert lead into extended siding

Retire "mid-siding" crossover

Bottleneck analysis

2 areas to resolve: Ventura-Santa Barbara, Moorpark-Oxnard

- Ventura north: Longest stretch of single track which constrains the schedule
 - Maintenance windows and local operations
- Oxnard south: Most congested part of the line; hampers schedule flexibility and ability to add more trains

Oxnard-Leesdale 2MT and 2nd platform

- Construct ~3 mi of 2MT south of Oxnard-Leesdale
- Rehab existing Leesdale siding and realign into main track
- Turn existing South
 Oxnard (CP CO406)
 into universal
 crossover
- Add second platform at Oxnard & realign siding as 2nd main; possible replacement of north drill, if needed

Surfliner Layover Facilities New/expanded facilities to accommodate growth

- Expand San Luis Obispo temporary facility: 6-8 months' timeline
 - Accommodate 2nd trainset until permanent facility is constructed
- Permanent maintenance facility at San Luis Obispo
 - Likely on former roundhouse property on west side
 - Build for future expansion
- Goleta facility: Expansion to accommodate 3 trainsets
 - Undergoing track design review

9/3/2020

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Questions?

OUR MISSION

The men and women of Union Pacific are dedicated to serve.

> OUR VALUES

Focus on performance Ensure high ethical standards Work as a team

Thanks for your time today!