

LOSSAN

Los Angeles
San Diego
San Luis Obispo

Coastal Rail Corridor

San Diego Segment

DEL MAR BLUFFS STABILIZATION PHASE 4

MAY 2022

SCHEDULE AND FUNDING

Construction Start

Phase 4 - May 2020
Emergency Repair - March 2021

Construction Completed

Phase 4 - January 2021
Emergency Repair - April 2022

Funding Sources

Federal, State, and Local

Total Project Cost

\$18.6 million



PROJECT OVERVIEW

SANDAG and the North County Transit District (NCTD) are leading efforts to stabilize portions of the coastal bluffs in the City of Del Mar. This integral part of the 351-mile Los Angeles – San Diego – San Luis Obispo (LOSSAN) rail corridor is a vital link for passenger and freight movements within San Diego County, as well as between San Diego, Los Angeles, and points farther north.

PREVIOUS BLUFF STABILIZATION EFFORTS

Since 2003, SANDAG and NCTD have completed four stabilization projects along coastal bluffs between Coast Boulevard and Torrey Pines State Beach. These stabilization projects saw the installation of more than 230 support columns into the bluffs and critical investments into drainage infrastructure to help reinforce and protect the Del Mar bluffs.

PHASE 4 IMPROVEMENTS

Phase 4 efforts installed smaller support columns that stabilized local areas and sea walls, constructed a drainage channel on top of the bluffs, repaired concrete channels and storm chute outfalls, and stabilized existing headwalls and seawalls.

FUTURE IMPROVEMENTS

SANDAG and NCTD have obtained the funding needed to build Del Mar Bluffs Phase 5. Phase 5 is currently funded through construction and will address seismic stability, install additional piled support columns, grade beams, tie backs, as well as replace and upgrade aging drainage structures. Sea walls, grading behind some seawalls and slope revegetation will be installed to slow bluff retreat and protect the train tracks.

Simultaneously, to ensure the long-term viability of the corridor, SANDAG is evaluating alternative strategies to move the tracks completely off the bluffs and into a tunnel.

IMPORTANCE OF THE LOSSAN RAIL LINE

The LOSSAN rail line is a vital component of the north-south corridor through the San Diego region. The NCTD COASTER commuter rail service, Amtrak's Pacific Surfliner intercity service, and BNSF Railway freight service all rely upon this segment of track to serve a combined 7.6 million passengers a year¹ and \$1 billion in goods and services that are supported by rail line reliability.² In 2019, these services relied upon 46 passenger trains and six freight trains per day. SANDAG is currently evaluating how to protect this vital economic corridor for the San Diego region.

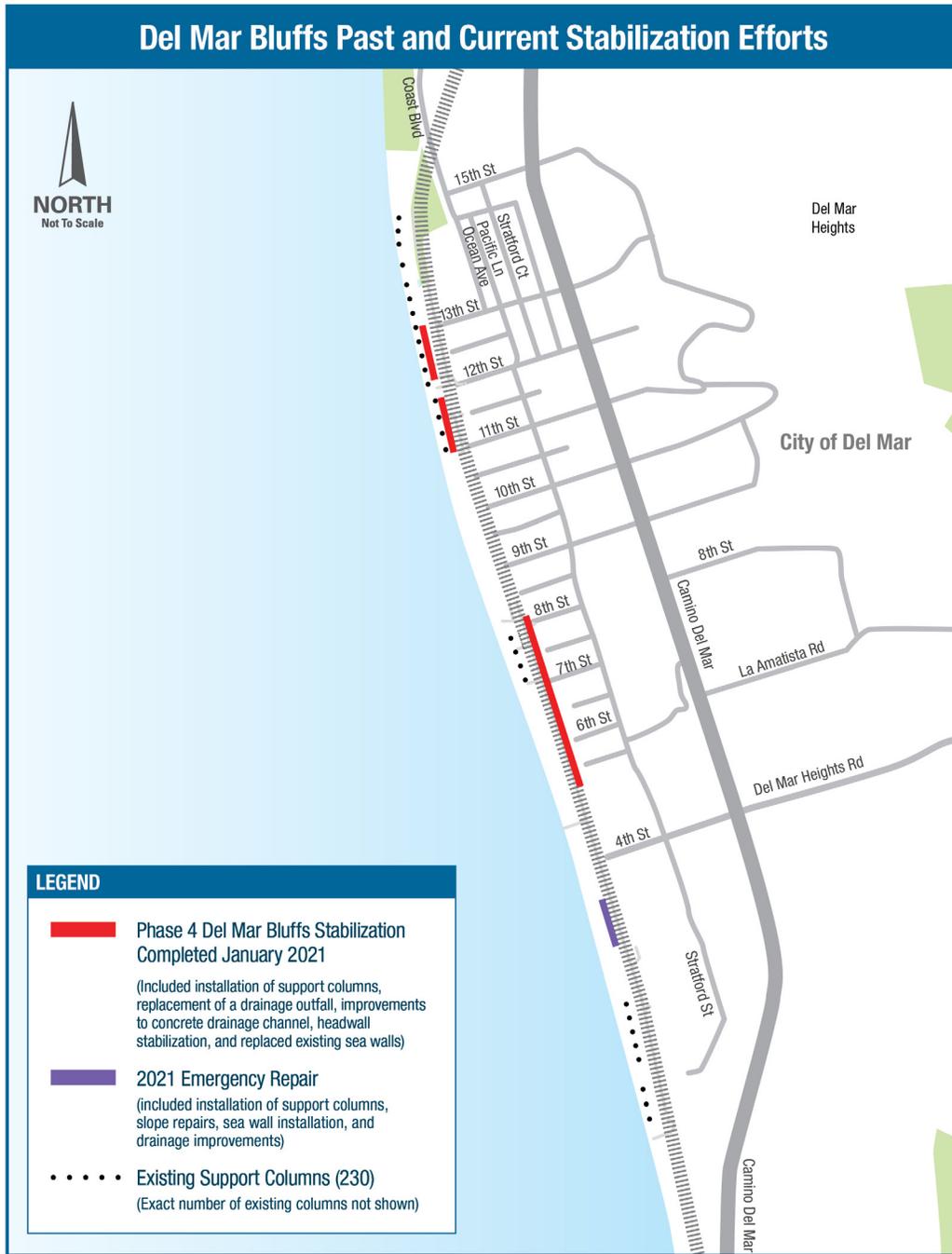
EMERGENCY REPAIR

In February 2021, a landslide occurred on the bluffs South of 4th Street when a sea wall built in 1912 fell onto the beach and required an emergency repair to protect the tracks in place. The emergency repair included slope repairs, installation of support columns, sea wall installation, and drainage improvements. Repairs were substantially completed in spring 2021 and revegetation of the slope is ongoing.

¹ Number of annual passengers along the LOSSAN rail corridor from San Luis Obispo to San Diego (LOSSAN Rail Corridor Agency)

² Annual amount of goods transported along the LOSSAN rail corridor from San Luis Obispo to San Diego (BNSF Railway, 2008: \$1B, 2050 estimate: \$2B)

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FOR MORE INFORMATION OR TO SIGN UP FOR PROJECT UPDATES:

Visit: KeepSanDiegoMoving.com/DelMarBluffs | Call: (858) 549-RAIL | TTY: (619) 699-1904 | Email: LOSSANRail@KeepSanDiegoMoving.com

