



LOSSAN North Corridor Coastal Stabilization Update

May 16, 2023



Coastal Stabilization Efforts

*LOSSAN Corridor
North*

- Coastal resiliency challenges exist on the northern end of the corridor
- Union Pacific Railroad is the track and right of way owner of the Santa Barbara subdivision, extending from Moorpark to San Luis Obispo
- Union Pacific Railroad is currently working on stabilization and short-term repairs, but longer-term solutions need to be addressed

LOSSAN Corridor North Locations

Coastal Stabilization Efforts

Santa Barbara and Ventura Counties



Honda Bluff Repairs and Potential Track Relocation (Mile Post 302-303)

Existing Conditions

- Shoreline erosion in sandstone formation
- Failure of steep sandy slopes

Near Term Solution/On going Work

- Install slope failure monitors.
- Daily monitoring

Proposed Repair Summary

- Relocate tracks inland
- Protect shoreline ~1500ft of shoreline
- Fill voids in sea caves
- May need VSFB, USACE, CCC, and State Lands permits



Hollister Ranch Repairs (Mile Post 324-329)

Existing Conditions

- Significant Bluff Erosion
- Loosing Slope within 8ft of Rail
- Erosion Moving Laterally
- Failure of Historic Seawall

Near Term Solution/On going Work

- Short to intermediate term repair includes construction of a soldier pile wall high on the bluff face (at Sacate)

Proposed Repair Summary

- Extend soldier pile and install tie-backs under the tracks.
- Replace drainage pipes
- Repair seawalls, where damaged
- Seawall work will need USACE, RWQCB, and CCC permits



El Capitan Bluff (Mile Post 347-348)

Existing Conditions

- Scour under wooden soldier pile wall
- Pipe broken above seawall
- Slope eroding away approximately 6' to 8' away from track

Near Term Solution/On going Work

- Fill void with rip-rap

Proposed Repair Summary

- Replace pipe and headwall (built in 1916).
- Replace wood wall with concrete soldier pile wall with tie-back anchors. Fill scour hole with rock, or gabion mattress



Ortega Hill (Mile Post 372-373)

Existing Conditions

- Slope erosion due to existing failing storm drains
- Slope erosion due to surface water is causing erosion of shoulder and causing a loss of ballast
- Existing void under bridge creating instability

Near Term Solution/On going Work

- Removal of blockage under tracks causing additional erosion on hill side

Proposed Repair Summary

- Replacement of corrugated metal pipes with proper headwalls and anchors to toe of slope.
- Add drilled pier to secure in slope
- Stabilize bluff face with soil netting.
- Fill in the void under bridge concrete floor



Rincon Point (Mile Post 381-382)

Existing Conditions

- Significant areas of hill erosion above the track area
- Tracks covered in sand after runoff from hills

Near Term Solution/On going Work

- Vacuum track bed to remove sand and sediment

Proposed Repair Summary

- Install storm water pipes from the farm field at top to bottom of slope
- May need easements to perform work
- Place of rocks, revetment to shore-up bottom of slope

