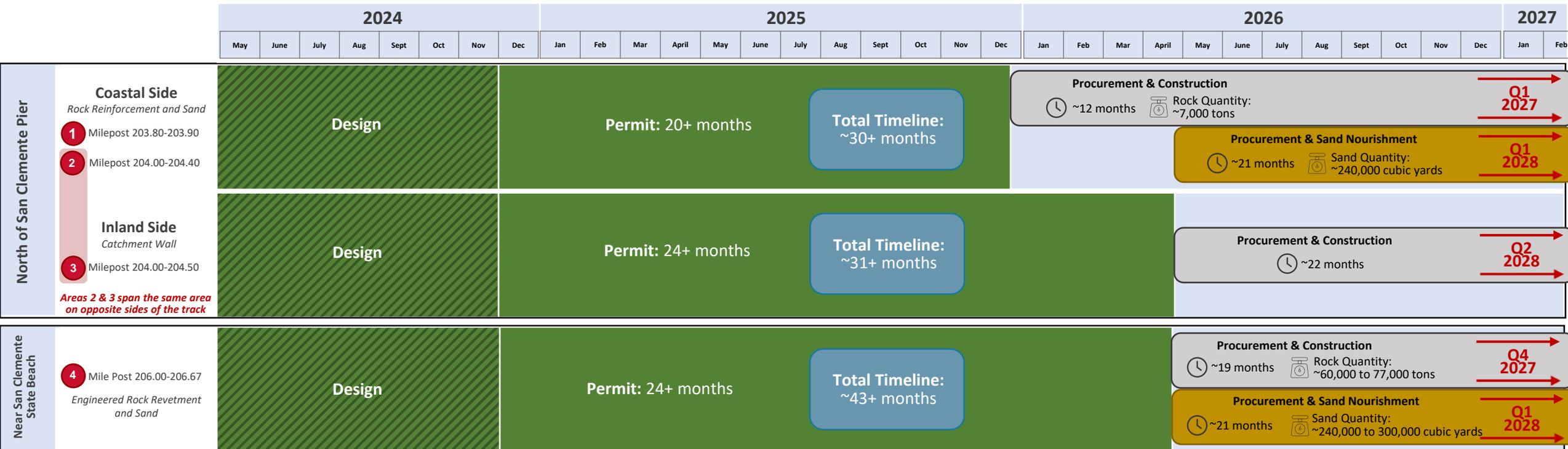


Coastal Rail Resiliency Study: Initial Assessment Estimated Project Timeline (typical permit process)



Rock & Wall: ~67,000 to 84,000 tons | ~\$183-195 million
Sand Nourishment: ~480,000 to 540,000 cubic yards | ~\$64-145 million
Total Estimated Cost: ~\$247-340 million



Key Assumptions

- Environmental Compliance & Permitting:**
- Assumes all work qualifies under the California Environmental Quality Act emergency provisions and National Environmental Policy Act Categorical Exclusion
 - California Coastal Commission
 - A Coastal Development Permit would require completed permitting process prior to work beginning
 - All work assumes advance coordination with Coastal Commission on appropriate permit process.
 - U.S. Army Corps of Engineers
 - Anticipates requirement of a Nationwide Permit 13

- Construction & Sand Nourishment:**
- Catchment wall construction timeline assumes no sensitive species, habitat, and/or aquatic resources that require additional permitting
 - Sand nourishment schedule assumes OCTA can procure sand via dredging by fall 2026
 - Assumes ~480,000 to 540,000 cubic yards of sand nourishment through one cycle, pending permits, dredge, and borrow source availability

Schedule and cost are preliminary and subject to change