

**GL: PROTECT Planning Studies
(VAR230201)**

Last updated with the 2027 TIP Update

Back-Up Listing for the PROTECT Planning Studies Grouped Listings (VAR230201)

State Fiscal Year	District	Agency	MPO	County	Project Title	Project Study Area	Scope of Work	Grouped Projects Listing	Federal Share (PROTECT Planning Set-Aside)	State Match (Min. 20%)*	Current Total Project Cost Estimate	
22/23	4	Caltrans	MTC	Marin	Highway 1 Sea Level Rise Adaptation Planning Study	Along the eastern shoreline of Bolinas Lagoon, between Stinson Beach and Woodville (MRN 1: 17.6/12.21).	The adaptation planning study will contribute to advancing a climate resilient approach for Highway 1 along the eastern shoreline of Bolinas Lagoon in Marin County. The study will include a robust technical analysis of existing and anticipated climate change impacts in the location, analyze various climate change adaptation options for the transportation system, with a focus on sea level rise, shoreline modeling, sediment conveyance, and wind wave runup/high tides (and other technical areas as required by the California Coastal Commission). (Project is consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Planning activities conducted pursuant to titles 23 and 49 U.S.C.)	Grouped Projects for Planning activities	\$462,272	\$115,568	\$577,840	
23/24	4	Caltrans	MTC	Marin	Highway 1 Sea Level Rise Adaptation Planning Study	Along the eastern shoreline of Bolinas Lagoon, between Stinson Beach and Woodville (MRN 1: 17.6/12.21).	See above.	Grouped Projects for Planning activities	\$80,000	\$20,000	\$100,000	
24/25	4	Caltrans	MTC	Marin	Highway 1 Sea Level Rise Adaptation Planning Study	Along the eastern shoreline of Bolinas Lagoon, between Stinson Beach and Woodville (MRN 1: 17.6/12.21).	See above.	Grouped Projects for Planning activities	\$8,147	\$2,037	\$10,184	
23/24	4	Caltrans	MTC	Marin	Marin 101 Adaptation Planning Study	Along US 101 North in Marin County from Marin City to San Rafael (PM 3.3./11.0)	The adaptation planning study will contribute to advancing a climate resilient planning approach for the US 101 corridor in Marin County. This corridor-level adaptation study will apply a combination of sea level rise analysis/alternatives assessment work with public engagement/outreach, implementing these two activities strategically - either independently or in tandem - at specific locations through the larger corridor-level study area. These tasks will be performed within the study area, from the US 101 bridge crossing over San Rafael Creek down to the Donahue St. on/off ramps in Marin City. Study activities will be coordinated concurrently with a TAM-led transportation infrastructure resiliency study underway. (Project is consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Planning activities conducted pursuant to titles 23 and 49 U.S.C.)	Grouped Projects for Planning activities	\$855,000	\$95,000	\$950,000	
24/25	4	Caltrans	MTC	Marin	Marin 101 Adaptation Planning Study	Along US 101 North in Marin County from Marin City to San Rafael (PM 3.3./11.0)	See above.	Grouped Projects for Planning activities	\$180,000	\$20,000	\$200,000	
24/25	4	Caltrans	MTC	Alameda	San Francisco-Oakland Bay Bridge East Approach Sea Level Rise Adaptation Planning Study	Eastern approach to The San Francisco-Oakland Bay Bridge on routes 80, 580, and 880	This Sea Level Rise (SLR) adaptation feasibility study will combine technical investigations and analysis with robust stakeholder engagement to determine feasible and acceptable design concepts for protecting the eastern approach to SFOBB from near-term, mid-term, and long-term sea level rise and storm surge expected between 2030 and 2130 (Project is consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Planning activities conducted	Grouped Projects for Planning activities	\$720,000	\$180,000	\$900,000	
									FY2023 Totals:	\$462,272	\$115,568	\$577,840
									FY2024 Totals:	\$935,000	\$115,000	\$1,050,000
									FY2025 Totals:	\$908,147	\$202,037	\$1,110,184
									Group Listing Total:	\$2,305,419	\$432,605	\$2,738,024

*The Federal PROTECT formula program allows for a reduction in the non-federal cost-match requirement for projects that are prioritized on an approved Resilience Improvement Plan. The Marin 101 Adaptation Planning Study project is included in the State Climate Resilience Improvement Plan for Transportation (SCRIPT), which received approval from FHWA on 1/10/2024 for complying with the requirements of 23 USC 176(e). Specifically, this project meets the requirements of 23 USC 176(e)(1)(B)(i) & (ii), and the SCRIPT is incorporated into the California Transportation Plan (CTP) 2050, which was approved on 2/22/2021. This reduces the non-federal cost match requirement for the