

TAM Board Meeting Caltrans Report

PROJECTS IN ENVIRONMENTAL PHASE

Millerton Gulch Bridge Scour Mitigation; MRN-1 PM 33.4; On Route 1 near Point Reyes Station, at Millerton Gulch Bridge – environmental monitoring and off-site mitigation (EA: 04-0J570)

Scope: Repair embankment and construct retaining wall and improve fish passageway.

Cost Estimate: \$4.0M (Construction Capital)

Schedule: Start Construction: Spring 2021
End Construction: Winter 2022

Emergency Directors Order (DO) project performed the scour mitigation. This project was down-scoped to a follow-up environmental mitigation project with a 5-year plant establishment and monitoring period.

Marin 1 Capital Preventive Maintenance Project (CAPM); MRN-1 PM 22.8/31.2 & 45.0/50.5; On Route 1 near Point Reyes Station & Olea, from Olea Creek to north of Cypress Road & on Route 1 near Tomales, from south of Tomales-Petaluma Road to south of Valley Ford Road (EA: 04-1J960)

Scope: Overlay pavement and shoulders with HMA-A, upgrade existing guardrails and crash cushions, and drainage improvements.

Cost Estimate: \$13.8M (Construction Capital)

Schedule: Start Construction: Spring 2022
End Construction: Fall 2022

Lagunitas Creek Bridge; MRN-1 PM 28.51; On Route 1 near Point Reyes Station, at Lagunitas Creek (EA: 04-0G642)

Scope: Replace existing bridge.

Cost Estimate: \$11.6M (Construction Capital)

Schedule: Start Construction: Spring 2020
End Construction: Spring 2022

The Draft Environmental Document (DED) was completed on April 12, 2017 and released for public review on April 24, 2017. The first public meeting was held on May 10, 2017. The second public meeting was held on June 15, 2017 at the Community Center in Point Reyes Station. The public comment period was extended by two weeks to June 24, 2017. The project final EIR/EA is anticipated in June 2018.

Upgrade Pedestrian Facilities; MRN-1 PM 0.02/2.0 & 0.5/0.76; On Route 1 in and near Mill Valley, at Manzanita Park and Ride lot and at the intersection of Almonte Blvd. (EA: 04-2G690)

Scope: Upgrade curb ramps, and construction new curb ramps as per current ADA standards.

Cost Estimate: \$1.98M (Construction Capital)

Schedule: Start Construction: Spring 2019
End Construction: Fall 2019

Transportation Authority of Marin (TAM) has a bike lane striping project at this location in construction (Route 1/ Almonte intersection also known as "TAM Junction"). This project was coordinated with TAM's project to prevent conflicts.

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Restore Damaged Drainage System; MRN-101 PM 0.2; On Route 101, near Sausalito, 0.1 miles south of Alexander Avenue (EA: 04-4J420)

Scope: Replace damaged existing Corrugated Metal Pipe (CMP) down drains with new Corrugated Steel Pipe (CSP) down drains.

Cost Estimate: \$909K (Construction Capital)

Schedule: Start Construction: Summer 2020
End Construction: Fall 2020

Caltrans will address related scouring/drainage issues in GGNRA property.

San Antonio Creek Bridge Scour Mitigation; MRN/SON-101 PM 0.0; On Route 101, near City of Petaluma, at Sonoma/Marin County line (EA: 04-3J080)

Scope: Mitigate scour and preserve the structural integrity of the NB San Antonio Creek Bridges and mitigated scour of SB San Antonio Creek bridge abutment left in place by MSN B3 project. The project will also minimize the flooding potential at the site by clearing drainage ditches of silt.

Cost Estimate: \$ 997K (Construction Capital)

Schedule: Start Construction: Summer 2022
End Construction: Winter 2023

The NB San Antonio Creek Bridge will be relinquished to the County upon completion of the scour mitigation repairs

Repair Culverts; MRN-101 PM 11.2; On Route 101 at Irwin Creek Bridge (Bridge No. 27-0097), repair five culverts (EA: 04-0K510)

Scope: Rehabilitate corrugated metal arch culvert bridge and adjoining deteriorated culverts.

Cost Estimate: \$ 1.9M (Construction Capital)

Schedule: Start Construction: Fall 2022
End Construction: Summer 2023

Upgrade Curb Ramps and Sidewalk; MRN-131 PM 0.9; On Route 131, in the Town of Tiburon, at Blackfield Dr. and Greenwood Cove Dr. intersection; (EA: 04-4J450)

Scope: Eliminate 4 free right turns, upgrade curb ramps and sidewalk. install new traffic signals, Install APS system countdown timers.

Cost Estimate: \$ 1.5M (Construction Capital)

Schedule: Start Construction: Fall 2020
End Construction: Summer 2021

Upgrade Curb Ramps and Sidewalk; MRN-101 PM 13.7; On Route 101, In San Rafael, at Manuel T Freitas Parkway; (EA: 04-4K800)

Scope: Upgrade curb ramps and sidewalk.

Cost Estimate: \$ 1.0 mil (Construction Capital)

Schedule: Start Construction: Fall 2020
End Construction: Summer 2021

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PROJECTS IN DESIGN PHASE

Repair Pavement and Drainage Systems; MRN-101 PM 10.1; On Route 101 and 580 in San Rafael, at Route 101/580 Interchange (EA: 04-2J480)

Scope: Repair sinking pavement and drainage systems.

Cost Estimate: \$2.66M (Construction Capital)

Schedule: Start Construction: Fall 2018
End Construction: Spring 2019

The repair strategy has been revised and previously anticipated weekend closure of SB 101/I-580 connector is not required.

Marin 101 Ramp Metering (FPI), Phase 1; MRN-101 PM 0.0/9.0; On NB Route 101, at various locations from north of GGB to Route 580 (EA: 04-15161)

Scope: Install ramp metering equipment at and TOS elements at 10 locations from GGB to San Francis Drake Blvd., including ramp widening at three locations. TOS element includes changeable message signs, salvage/removal of wireless magnetometer vehicle detection sensors, and installation of inductance loops.

Cost Estimate: \$9.2M (Construction Capital)

Schedule: Start Construction: Spring 2019 (RTL in June 2018)
End Construction: Spring 2020

The project will install ramp metering equipment and widen NB 101 at Sir Fran Drake Blvd on-ramp to three lanes in Larkspur and NB 101 on-ramps at 101/131 interchange. The project also widen Route 131 from North Knoll Rd. to NB Route 101 on-ramp to address congestion.

Marin-Sonoma Narrows Contract B6 – Replace Bridge; MRN/SON -101 PM MRN 101 27.0/27.6 & SON-101 0.0/0.3; On San Antonio Road (local road) near Petaluma, 0.6 miles north of Route 101 (EA: 04-2640S)

Scope: Construct a two-lane bridge.

Cost Estimate: \$4.0M (Construction Capital)

Schedule: Start Construction: TBD
End Construction: TBD

Caltrans was the lead for the Environmental phase. County of Marin is the lead for Design, R/W and Construction. County and TAM/County have held two public information public meetings. Environmental revalidation requires a cooperative agreement with the County. Execution of the cooperative agreement is pending County approval of terms and conditions.

North/South Greenway Gap Closure Project (Northern Segment); MRN-101 PM 8.4/8.6; On Route 101 in Larkspur, at East San Francis Drake Blvd (EA: 04-1A661)

Scope: Corte Madera Creek Bridge (off-ramp) widening.

Cost Estimate: \$6.0M (Construction Capital)

Schedule: Start Construction: Spring 2019 (RTL in November 2018)
End Construction: Fall 2019

The first public scoping meeting was held on March 19, 2015. The second and third public scoping meetings were held on July 29, 2015 and March 21, 2016, respectively. The scope was revised to stay within budget. The project requires an amended freeway maintenance agreements with the City of Larkspur.

Replace Harbor Bridge; MRN-101 PM 10.63/10.87; On Route 101 in San Rafael, from Route 101 off-ramp to 2nd Street at the San Rafael Harbor (EA: 04-4G820)

Scope: Replace existing bridge.

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Cost Estimate: \$7.26M (Construction Capital)
Schedule: Start Construction: Spring 2019
 End Construction: Winter 2019

Coordination with the City of San Rafael is required. Construction of a temporary bridge will minimize traffic impacts. The project will be presented to City Council in June 2018.

Install Concrete Barrier; MRN-101 PM 475/5.60; On NB Route 101, from Strawberry pedestrian overcrossing to Tiburon Blvd. off-ramp (EA: 04-4H980)

Scope: Install concrete barrier along right-of-way between Route 101 and Redwood Highway Frontage Road.
Cost Estimate: \$5.50M (Construction Capital)
Schedule: Start Construction: Summer 2018
 End Construction: Fall 2018

The project is being expedited by one year due to a recent accident at the project site.

PROJECTS IN CONSTRUCTION PHASE

Estero Americano Bridge; MRN/SON-1 PM 50.3/50.5; On Route 1 from 0.1 miles south of Estero Americano Bridge to 0.1 mile south of Valley Ford Road (EA: 04-20950)

Scope: Replace existing bridge.
Cost Estimate: \$10.6M (Construction Capital)
Schedule: Completion of the construction contract is anticipated in Fall 2019.

Construction contract was awarded on January 4, 2017. Tree removal and utility relocations were completed in Fall 2016.

Paint Bridge; MRN-580 PM 0.01/2.7; On Route 580 at the Richmond-San Rafael Bridge & in Contra Costa County (EA: 04-3G484)

Scope: Clean and Paint Bridges.
Cost Estimate: \$33.9M (Construction Capital)
Schedule: Completion of the construction contract is anticipated in Summer 2018.

Construct Tie-Back Retaining Wall; MRN-1 PM 10.95; On Route 1 near Stinson Beach, approximately 1.2 miles south of North Panoramic Highway at Web Creek (EA: 04-4S220)

Scope: Replace culvert and backfill sink hole.
Cost Estimate: \$2.4M (Construction Capital)
Schedule: Completion of the construction contract is anticipated in October 2021.

Construction activities have been completed. The project is in 5-year Plant Establishment Period (PEP) period.

Marin-Sonoma Narrows Contract L1A (MRN) – Follow-up Mitigation Planting and Sound Wall; MRN-101 PM 26.5/27.6, On Route 101 in Novato, at Olive Avenue (EA: 04-264H3)

Scope: Implement follow-up mitigation planting for MSN Phase 1 and construct Sound Wall on NB Route 101 at Olive Avenue in Novato.

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Cost Estimate: \$2.8M (Construction Capital)

Schedule: Completion of the construction contract is anticipated in 2019.

Construction activities have been completed. The project is in 3-year Plant Establishment Period (PEP) period.

Marin-Sonoma Narrows Contract B3 - San Antonio Curve Correction; MRN-101 PM 26.5/27.6 & SON-101 0.0/1.2; On Route 101, near Petaluma, from 0.3 miles south of San Antonio Rd. to 1.2 miles north of Marin/Sonoma County line (EA: 04-26409)

Scope: Realign Route 101 to the west to correct horizontal alignment and construct a new mainline San Antonio Creek Bridge. The project will extend frontage roads built by other MSN contracts and pedestrian/bicycle facility along San Antonio Creek.

Cost Estimate: \$49.8M (Construction Capital)

Schedule: Project was awarded on January 21, 2016. Completion of the construction contract is anticipated in July 2019.

The ground-breaking ceremony was held on July 6, 2016.

Bridge Rail Replacement; MRN-101 PM 1.5/14.0; On Route 101 at Spencer Avenue Overcrossing, Mar Drive Undercrossing, North Branch Gallinas Creek Bridge and Corte Madera Creek Bridges (EA: 04-4G460)

Scope: Replace bridge rails.

Cost Estimate: \$8.7M (Construction Capital)

Schedule: Project awarded on January 28, 2016. Completion of the construction contract is anticipated in July 2018.

The lane closure and detour plans were revised to address CHP concerns.

Route 580/101 HOV Gap Closure Mitigation Planting; MRN-101 PM 9.7/12.7; On Route 101 in San Rafael, at Brookdale Area and offsite riparian mitigation planting (EA: 04-2261H)

Scope: Follow-up Mitigation Planting for the Marin Route 580/101 HOV Gap Closure Project.

Cost Estimate: \$219K (Construction Capital); \$490K (Offsite Mitigation)

Schedule: Construction activities have been completed. The construction contract will be accepted in December 2021 after a 5-year Plant Establishment Period (PEP).

TAM is the lead for this project, and the project is being implemented via an encroachment permit. Caltrans is the lead for off-site mitigation. The off-site mitigation includes restoration of a portion of Glenview Creek by California State Parks and the acquisition and transfer of the 2.1 acres Sausalito Lincoln/Butte parcel to Open Space Sausalito for preservation as permanent open space. The City of San Rafael will take over maintenance of Brookdale Area after the PEP.

Upgrade Pedestrian Facility; On Routes 1, 131, 116, 128 and 29 in Marin, Sonoma and Napa Counties, at various locations (EA: 04-4A670)

Scope: Upgrade curb ramps, driveways, and sidewalks as per current ADA standards.

Cost Estimate: \$250K (Construction Capital)

Schedule: Contract Awarded on November 9, 2016. Completion of the construction is anticipated in July 2018.

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The project is addressing community concerns in Saint Helena. The project will also construct sidewalk access requested by the City of American Canyon.

Construct Retaining Wall; MRN-1 PM 8.0; On Route 1, PM 8.0, On Route 1, near Muir Beach, approximately 2.0 miles north of Muir Beach Road (EA: 04-2G890)

Scope: Construct tie-back retaining wall.

Cost Estimate: \$3.4M (Construction Capital)

Schedule: Project was awarded on February 2, 2017. Completion of the construction contract is anticipated in July 2018.

Replace and Regrade Pavement; MRN-37 PM 11.7/12.0; On Route 37 in and near Novato, from Route 101 separation to Novato Creek Bridge - Emergency Directors Order Contract (EA: 04-4K330)

Scope: Replace and regrade (raise) pavement to address flooding, construct drainage system, and barrier.

Cost Estimate: \$8.0M (Construction Capital)

Schedule: Project was awarded on February 11, 2017. Completion of the construction contract is anticipated in June 2018.

The construction is substantially complete, and Route 37 is open to traffic. Some electrical work in pending.

Construct Retaining Wall; MRN-1 PM 10.98; On Route 1 near Stinson Beach, approximately 1.2 miles south of North Panoramic Highway - Emergency Directors Order Contract (EA: 04-4K240-S1)

Scope: Construct retaining wall.

Cost Estimate: \$16.9M (Construction Capital)

Schedule: Project was awarded on February 26, 2017. Completion of the construction contract is anticipated in December 2018.

The DO will be amended to accommodate new damage at the site. The project requires one-way traffic control.

Construct Sheet-Pile Retaining Wall and Slope Armoring; MRN-1 PM 33.4; On Route 1 near Point Reyes Station, at Millerton Gulch Bridge - Emergency Directors Order Contract (EA: 04-4K500)

Scope: Construct sheet pile retaining wall and rebuild slope.

Cost Estimate: \$2.6M (Construction Capital)

Schedule: Substantial construction activities have been completed. Construction contract will be accepted in February 2018 after Phase 1 of the PEP. Phase 2 of the PEP and off-site mitigation of this project will be completed by EA: 04-0J570, currently in design phase.

Construct Sheet-Pile Retaining Wall; MRN-1 PM 11.5; On Route 1 near Stinson Beach, 0.6 miles south of Panoramic Highway - Emergency Directors Order Contract (EA: 04-0P130)

Scope: Construct sheet pile retaining wall.

Cost Estimate: \$8M (Construction Capital)

Schedule: Project was awarded on February 26, 2017. Completion of the construction contract is anticipated in October 2018.

The project requires one-way traffic control.

Construct Retaining Wall; MRN-1 PM 8.1; On Route 1, near Muir Beach, approximately 2.1 miles north of Muir Beach Road (EA: 04-4S660)

Scope: Construct tie-back retaining wall.

Cost Estimate: \$2.2M (Construction Capital)

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Schedule: Project was awarded in June 2017. Completion of the construction contract is anticipated in September 2018.

Construct Retaining Wall; MRN-1 PM 2.2; On Route 1 near Mill Valley, 0.2 miles north of Loring Avenue. (EA: 04-1SS58)

Scope: Construct tie-back retaining wall.

Cost Estimate: \$2.2M (Construction Capital)

Schedule: Project was awarded on June 18, 2017. Completion of the construction contract is anticipated in December 2018.

Construction is substantially complete. The construction contract will be accepted in December 2018 after 1-year Plant Establishment Period (PEP).

Address Flooding; MRN-1 PM 0.1; On Route 1 in Mill Valley, at Manzanita Park & Ride - Emergency Directors Order Contract (EA: 04-0P000)

Scope: Install check valves at two culverts, repair electrical facility and grind & pave Park & Ride lot.

Cost Estimate: \$1.1M (Construction Capital)

Schedule: Emergency Directors Order (DO) approved on April 14, 2017. Completion of the construction contract is anticipated in August 2018.

Replace Culvert & Repair Washout; MRN-1 PM 22.7/22.8; On Route 1 near Olema, at Giacomini Creek - Emergency Directors Order (EA: 04-4K850)

Scope: Construct box culvert (PM 22.78) and install sheet piles (PM 22.8)

Cost Estimate: \$4.2M (Construction Capital)

Schedule: Emergency Directors Order (DO) approved on April 12, 2017. Completion of the construction contract is anticipated in December 2018.

Replace Culvert & Repair Embankment; MRN-1 PM 35.3; On Route 1 near Marshall, 3.2 miles south of Marshall-Petaluma Road – Emergency Directors Order (EA: 04-4K860)

Scope: Replace culvert and embankment.

Cost Estimate: \$1.4M (Construction Capital)

Schedule: Emergency Directors Order (DO) approved on April 12, 2017. Completion of the construction contract is anticipated in December 2018.

The project requires new R/W.

Construct Retaining Wall; MRN-1 PM 6.6; On Route 1 near Muir Beach, approximately 0.6 miles north of Muir Beach Road -Emergency Directors Order (EA: 04-3S900)

Scope: Construct tie-back retaining wall.

Cost Estimate: \$6.2M (Construction Capital)

Schedule: Emergency Directors Order (DO) approved on June 13, 2017. Completion of the construction contract is anticipated in August 2018.

The project requires one-way traffic control.

Construct Retaining Wall; MRN-1 PM 7.7; On Route 1 near Muir Beach, approximately 1.7 miles north of Muir Beach Road - Emergency Directors Order (EA: 04-3S910)

Scope: Construct tie-back retaining wall.

Cost Estimate: \$2.4M (Construction Capital)

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Schedule: Emergency Directors Order (DO) approved on June 13, 2017. Completion of the construction contract is anticipated in July 2018.

The project requires one-way traffic control.

Construct Retaining Wall; MRN-1 PM 8.2/8.5; On Route 1 near Muir Beach, approximately 2.2 miles north of Muir Beach Road - Emergency Directors Order (EA: 04-4K840)

Scope: Construct tie-back retaining wall.

Cost Estimate: \$3.8M (Construction Capital)

Schedule: Emergency Directors Order (DO) approved on June 13, 2017. Completion of the construction contract is anticipated in Fall 2018.

The project site has new damage that requires repairs and full closure of Route 1.

Centerline Mumble Strip and Pullouts; MRN-1 PM 3.1/ 50.5; On Route 1 from 0.2 miles west of Erica Road to Valley Ford Road (EA: 04-4H870)

Scope: Install mumble strip on the centerlines and construct pullouts at various locations on Route 1 and shoulder widening in Stinson Beach.

Cost Estimate: \$5.0M (Construction Capital)

Schedule: Construction started on April 16, 2018 and completion of the construction contract is anticipated by December 2018. Major construction activities will be in summer (June to August) 2018.

Caltrans collaborated with Marin County Bicycle Coalition (MCBC), California Coastal Commission (CCC), State Park (SP) and Golden Gate National Recreation Area (GGNRA) to select sign locations along Route 1. Caltrans will refine the design to address noised related concerns at some locations. Project website provides locations of the mumble street based on street address.

Upgrade Pedestrian Facilities; MRN-101 PM 0.0/8.5 & MRN-131 PM 4.0/4.4; On Route 101 in the Cities of Sausalito, Corte Madera, Larkspur, and Tiburon, at various locations (EA: 04-3G210)

Scope: Upgrade curb ramps, driveways, and sidewalks to current ADA standards.

Cost Estimate: \$1.68M (Construction Capital)

Schedule: Construction started in May 2018 and completion of the construction contract is anticipated by December 2018.

Culvert Replacement; MRN-1 PM 9.8; On Route 1 near Muir Beach, approximately 2.2 miles north of Muir Beach Road - Emergency Directors Order (EA: 04-0Q260)

Scope: Reconstruct failed culverts.

Cost Estimate: \$250K (Construction Capital)

Schedule: Construction started in December 2017 and completion of the construction contract is anticipated in July 2018.

Scour Mitigation; MRN-101 PM 15.35; On Route 101 at Miller Creek Bridge (EA: 04-4G871)

Scope: Scour mitigation.

Cost Estimate: \$1.0M (Construction Capital)

Schedule: Construction will start in late June 2018 and completion of the construction contract is anticipated in April 2020, after Plant Establishment Period (PEP).

Bicycle/Pedestrian Facility on Richmond-San Rafael Bridge; CC/MRN-580 PM CC 0.0/ 4.8 & MRN 4.8/7.8; On Route 580 at Richmond-San Rafael Bridge (EA: 04-2J680 – Contract 2)

Scope: Extend the bicycle/pedestrian path across the Richmond-San Rafael Bridge and to complete connections to the existing Bay Trail segments on the Marin County side of the Richmond-San Rafael Bridge.

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Cost Estimate: \$40M (Construction Capital)

Schedule: Completion of the construction contract is anticipated in December 2018.

The Bay Area Toll Authority (BATA) is the lead for this project. The first contract for this project (E/B lane) is also under construction.

Replace Culverts with Bridge; MRN-1 PM 24.7; On Route 1, approximately 0.6 south of Olema (EA 04-4S780)

Scope: Replace twin culverts with a bridge for fish passageway.

Cost Estimate: \$3.3M (Construction Capital)

Schedule: Construction started in June 2017 and completion of the construction contract is anticipated in December 2018.

OTHERS

- Route 1 is open to traffic but has several one-way controls between Muir Beach and Stinson Beach due to storm damage repair projects. Thirteen Emergency Directors Order (DO) contracts were approved along Route 1 in Marin County, and these DOs are listed as projects in construction.
- Caltrans, County of Marin, City of Mill Valley and Town of Tiburon implemented short-term measures to relieve traffic congestion on Highway 1 at TAM Junction and the Highway 101/Tiburon Blvd./East Blithedale Avenue. Interchange area. Widening of Tiburon Blvd near Highway 101 onramp will be incorporated in ramp metering project (EA 04-15161).
- Caltrans is working with County of Marin to review Phase 1 of Bolinas Lagoon project.

STORM DAMAGE PROJECTS IN ENVIRONMENTAL / DESIGN PHASE

Project EA	Location/Description	Construction Capital Cost	Begin Construction
04-2J560	<p><u>Project in Design (PS&E)</u> <u>Location:</u> Route 1, PM 0.3, In Marin County, near Mill Valley, at Tennessee Valley Road. <u>Scope:</u> Construct retaining wall and improve drainage.</p>	\$1.5M	Spring 2019