

February 2019

## TAM Board Meeting Caltrans Report

### ***PROJECTS IN ENVIRONMENTAL PHASE***

**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 & Olema, from Olema 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:** \$24.4 M (Construction Capital)

**Schedule:** Start Construction: Spring 2023  
End Construction: Fall 2024

**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 existing damaged 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

The project will also address issues related to scouring/surface drainage in State R/W.

**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 northbound San Antonio Creek Bridge and mitigated scour at southbound 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 northbound 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 and install new traffic signals, also install APS system countdown timers.

**Cost Estimate:** \$1.5M (Construction Capital)

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

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### **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:** \$1.0M (Construction Capital)  
**Schedule:** Start Construction: Fall 2020  
 End Construction: Summer 2021

### ***PROJECTS IN DESIGN PHASE***

### **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. The 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:** Construct a new bike path on Corte Madera Creek Bridge (off-ramp)  
**Cost Estimate:** \$6.0M (Construction Capital)  
**Schedule:** Start Construction: Summer 2019 (RTL in March 2019)  
 End Construction: Spring 2020

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 cooperative agreement with TAM and freeway maintenance agreement (amendment) with the City of Larkspur are being finalized.

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

**Scope:** Replace existing bridge.  
**Cost Estimate:** \$11.4M (Construction Capital)  
**Schedule:** Start Construction: Spring 2019  
 End Construction: Winter 2019

The project was presented to the City Council in May 2018. The project will also modify the 2nd Street intersection in San Rafael to improve traffic flow. San Rafael Sanitation District Sewers line is being relocated. The project was advertised on October 15, 2018 and bids were opened February 13, 2019. Contract award is anticipated in March 2019.

With the help of the City of San Rafael, Caltrans conducted a public survey to evaluate three alternatives for the loudest and most disruptive phase of the project, pile driving. Based on the results of the survey, the project will close the 2nd Street off-ramp for three-weekend (11 pm Friday to 5 am Monday). Pile driving will occur around the clock during these weekends.

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**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:** Follow-up onsite environmental monitoring, and off-site mitigation.

**Cost Estimate:** \$1.0M (Construction Capital)

**Schedule:** Start Construction: Spring 2019  
End Construction: Winter 2029

Emergency Directors Order (DO) project performed the scour mitigation work. This project was down-scoped to a follow-up off-site mitigation and environmental mitigation project with a 10-year plant establishment and monitoring period.

**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 2021  
End Construction: Spring 2022

The Environmental Document (EIR/EA) was completed June 29, 2018. An informational public meeting will be held in September 2018. The project is in litigation (EIR/EA is challenged by Friends of the Green Bridge, et al).

**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 2020  
End Construction: Fall 2020

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.

**Bellam Intersection Improvement; MRN-101/580- PM 9.8/9.9 & PM 4.4/4.7; Northbound Route 101 / Eastbound I-580 Off-Ramp to Bellam Blvd. in San Rafael (EA: 04-0Q270)**

**Scope:** Widen off-ramp, modify intersection and modify traffic signal.

**Cost Estimate:** \$2.9 M (Construction Capital)

**Schedule:** Start Construction: Summer 2019  
End Construction: Winter 2019

This project is administered by the Transportation Authority of Marin (TAM). Ramp closures of this project will be coordinated with two other projects on US 101 (Replace Harbor Bridge & North/South Greenway Gap Closure) in Summer 2019.

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**Pavement Overlay and Curb Ramps; MRN-101- PM 14.7; On Route 101 at Lucas Valley Under Crossing in the City of San Rafael (EA: 04-1Q510)**

**Scope:** Construct curb ramps, and overlay asphalt pavement.

Cost Estimate: \$1.6M (Construction Capital)

**Schedule:** Start Construction: Fall 2019  
End Construction: Summer 2020

This project is administered by the City of San Rafael.

**Marin-Sonoma Narrows Contract B7 – HOV lane in Marin; MRN – 101- PM 20.8/27.3; On Route 101, in and north of Novato, SB HOV lane from 0.3 miles south of the Marin/Sonoma County line to just south of Franklin Ave. Overhead (4.8 miles), and NB HOV lane from 1.7 miles north of Atherton Ave Overcrossing to 0.3 miles south of the Marin/Sonoma County line (3.6 miles)- (EA: 04-26472)**

**Scope:** Roadway and bridge widening and Redwood Landfill Interchange modification for HOV lanes and standard shoulders and horizontal and vertical roadway alignment correction. The scope does not include utility relocation and R/W acquisition for access control. Roadway work in not in direct conflict with utilities to be relocated.

**Cost Estimate:** \$92.0M (Construction Capital)

**Schedule:** Start Construction: Spring/Summer 2020  
End Construction: Fall 2022

This project is funded by RM3. TAM is the lead for PS&E of this project. This project combines the mainline improvements of MSN Contracts B1-Phase 2 and A4.

**Marin-Sonoma Narrows Contract B8 – HOV lane in Marin; MRN - 101 – PM 24.0/27.5; On Route 101, from 2.0 miles north of Atherton Ave. Overcrossing to 0.1 miles south of the Marin/Sonoma County (EA: 04-26473).**

**Scope:** line / Relocate utilities located in State R/W on Route 101 and widen and rehabilitate 0.6 miles of San Antonio Road (County Road) to include Class-II bike facility

**Cost Estimate:** \$6.M (Construction Capital)

**Schedule:** Start Construction: Summer 2021  
End Construction: Fall 2022

TAM is the lead for PS&E of this project. The project scope is to secures R/W, relocates utility and widen/ rehabilitate San Antonio Road for Class II bike lanes.

### ***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:** \$10.7M (Construction Capital)

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

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

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**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 sinkhole.

**Cost Estimate:** \$2.4M (Construction Capital)

**Schedule:** Completion of the construction contract is anticipated in March 2020.

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 northbound Route 101 at Olive Avenue in Novato.

**Cost Estimate:** \$2.8M (Construction Capital)

**Schedule:** Completion of the construction contract is anticipated in July 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 and pedestrian/bicycle facility built by other MSN contracts.

**Cost Estimate:** \$64.5M (Construction Capital)

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

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

**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 Brookdale parcel will be relinquished to the City of San Rafael after the Plant Establishment Period (PEP).

**Construct Retaining Wall; MRN-1 PM 10.9; 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:** \$18.5M (Construction Capital)

**Schedule:** Project was awarded on February 26, 2017. Completion of the construction contract is anticipated in May 2019.

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

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**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. The construction contract will be accepted after Phase 1 Plant Establishment Period (PEP) in May 2019. Phase 2 of the PEP and off-site mitigation of this project will be completed by EA: 04-0J570, currently in design phase.

**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 a 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. Construction is substantially complete. Completion of the construction contract is anticipated in November 2019 after one-year Plant Establishment Period (PEP).

**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 April 2019.

The project requires new R/W.

**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 March 2019. Major construction activities have been completed except for shoulder widening in Stenson Beach.

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 the street address.

**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 started in June 2018, and construction has been completed. The contract will be accepted in 2021 after a 3-year Plant Establishment Period (PEP).

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**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. The bidirectional path will be located on the right shoulder of the westbound 580 (upper deck). The path project is a pilot program that will evaluate usage of path by bicyclists and pedestrians.

**Cost Estimate:** \$40.0M (Construction Capital)

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

The Bay Area Toll Authority (BATA) is the lead for this project. The first contract for this project (E/B lane) is open to traffic. The path will be a part of the Bay Trail. The path is being built by the Bay Area Toll Authority under Caltrans oversight.

**Replace Culverts with a 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 April 2019.

**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:** Construction contract awarded on October 17, 2018, and completion of the construction contract is anticipated in April 2019.

The repair strategy has been revised and previously anticipated work on southbound 101/I-580 connector will be done in a future project.

**Construct Retaining Wall and Improve Drainage; MRN-1 PM 0.3; On Route 1 near Mill Valley, at Tennessee Valley Road. (EA: 04-2J560)**

**Scope:** Construct Retaining Wall and install drainage gutter.

**Cost Estimate:** \$1.2 (Construction Capital)

**Schedule:** Construction contract awarded on November 19, 2018, Construction will commence in March/April 2019 and completion of the construction contract is anticipated in December 2019.

One way traffic control will be implemented at night time. During the lane closures, the signal will be turned off, and flaggers will direct traffic at the site and at the intersection. Public outreach will start about a month before construction begins. Including mass mailing of flyers, coordination with local jurisdictional agencies and emergency services, traffic advisories (as needed) and CMS signs at critical locations to warn drivers of nighttime lane closure

**Install Concrete Barrier; MRN-101 PM 475/5.60; On northbound Route 101, from Strawberry Pedestrian Overcrossing (POC) to Tiburon Blvd. off-ramp (EA: 04-4H980)**

**Scope:** Install a concrete barrier along state right-of-way between northbound Route 101 and Redwood Highway Frontage Road.

**Cost Estimate:** \$6.1M (Construction Capital)

**Schedule:** Construction contract awarded on January 2, 2019, Construction will commence in March/April 2019 after the rainy season and completion of the construction contract is anticipated in December 2019

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

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

**Scope:** Install ramp metering equipment 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:** \$6.9M (Construction Capital)

**Schedule:** Construction contract was awarded on December 17, 2018, Construction will commence in March/April 2019 and completion of the construction contract is anticipated in Spring 2020.

The project also widens Route 131 from North Knoll Rd. to northbound Route 101 on-ramp to address congestion on Tiburon Blvd. Public outreach will start about a month before construction begins. Including mass mailing of flyers, coordination with local jurisdictional agencies and emergency services, traffic advisories (as needed) and CMS signs at critical locations to warn drivers of lane/ramp closure and detours.

### 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.
- Caltrans, County of Marin, City of Mill Valley and Town of Tiburon will implement 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 start in April 2019 under EA 04-15161.
- Caltrans is working with County of Marin to review Phase 1 of Bolinas Lagoon project.
- Caltrans maintenance restored the drainage system (culverts and ditches) along the Bolinas Lagoon to prevent recurring flooding on Route 1 prior to 2018 winter.
- Caltrans contractor is anticipated to begin the I-580 Richmond-San Rafael Bridge emergency repair work (expansion joint replacement) during the week of February 18.
- Caltrans raised Route 37 elevation at nine locations to address the February 2019 flooding, Caltrans maintenance crew also and helped with dewatering and pumping of flood water.
- Caltrans is working with the City of Sausalito and National Park Service (NPS) to investigate the landslide below Highway 101.