

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**PROJECT AUTHORIZATION/ADJUSTMENT REQUEST**  
 LAPM 3-A (REV 08/2020)

Local Assistance Procedures Manual  
 Page 1 of 6

Date 11/09/2021	Federal Project Number BRLO-5925(098)	Agency El Dorado County, Department of Transportation	Caltrans District 03	Congressional District 04
Project Contact Jon Balzer		Title Senior Civil Engineer	Email [REDACTED]	Phone [REDACTED]
Project Title Mosquito Road at South Fork American River - Bridge Replacement				<input checked="" type="checkbox"/> HBP
Project Location On Mosquito Road, 5.7 Miles North of US 50				
Bridge Number(s) 25C0061				
Description of Work Replace Existing Bridge with cast-in-place segmental box girder bridge on new alignment. Includes new roadway approaches with retaining walls and drainage improvements.				
Functional Classification Rural Minor Collector	<input type="checkbox"/> Located on SHS	CRS Map No. 8H53	ITS Risk Exempt	Project Oversight Locally Administered
			Estimated Phase Completion Date 12/31/2024	PED 12/31/2025
Authorization Adjustment	<input type="checkbox"/> PE <input type="checkbox"/> R/W <input type="checkbox"/> CON <input type="checkbox"/> CE <input type="checkbox"/> NI	<input checked="" type="checkbox"/> Advance Construction	<input type="checkbox"/> CTC Allocation Required	Federal Amount Requested <b>\$16,300,000.00</b>
Invoking Section 1440 of the FAST ACT? (aka At-Risk PE)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

**PROJECT FUNDING**

Previously Authorized Phase(s) ☒ PE ☒ R/W ☒ CON ☒ CE ☐ NI

	Federal Fund Type	Project Cost	Federal Participating Cost	Federal Funds	State Match Funds	Local Match Funds	Other Funds	Reimb. Rate	P/L
<input type="checkbox"/> PE	PREVIOUS AUTHORIZATIONS	\$8,000,000.00	\$8,000,000.00	\$8,000,000.00				100.00	
<input checked="" type="checkbox"/> TC	PE subtotals	\$8,000,000.00	\$8,000,000.00	\$8,000,000.00	\$0.00	\$0.00	\$0.00		
<input type="checkbox"/> R/W	PREVIOUS AUTHORIZATIONS	\$814,000.00	\$814,000.00	\$814,000.00				100.00	
<input checked="" type="checkbox"/> TC	R/W subtotals	\$814,000.00	\$814,000.00	\$814,000.00	\$0.00	\$0.00	\$0.00		
<input type="checkbox"/> CON	PREVIOUS AUTHORIZATIONS	\$62,040,000.00	\$62,040,000.00			\$62,040,000.00		N/A	
<input checked="" type="checkbox"/> TC	HBP	\$0.00		\$14,344,000.00		(\$14,344,000.00)		N/A	
<input type="checkbox"/> FA	CON subtotals	\$62,040,000.00	\$62,040,000.00	\$14,344,000.00	\$0.00	\$47,696,000.00	\$0.00		
<input type="checkbox"/> CE	PREVIOUS AUTHORIZATIONS	\$8,460,000.00	\$8,460,000.00			\$8,460,000.00		N/A	
<input checked="" type="checkbox"/> TC	HBP	\$0.00		\$1,956,000.00		(\$1,956,000.00)		N/A	
<input type="checkbox"/> SF	CE subtotals	\$8,460,000.00	\$8,460,000.00	\$1,956,000.00	\$0.00	\$6,504,000.00	\$0.00		
<b>Total Project Cost</b>		<b>\$79,314,000.00</b>	<b>\$79,314,000.00</b>	<b>\$25,114,000.00</b>	<b>\$0.00</b>	<b>\$54,200,000.00</b>	<b>\$0.00</b>		

**COST ESTIMATE**

Detail your project costs with the cost estimate template(s) created on the following pages (applicable templates are created based on the phases selected for authorization and/or adjustment).

If the cost estimate template(s) created cannot be used or a different format is preferred (e.g., Excel spreadsheet), indicate which phase(s) other documentation will be submitted to support your authorization and/or adjustment request:

Any existing inputs and calculations on cost estimate templates will be cleared when selected.

☐ Construction/Construction Engineering



**PROJECT AUTHORIZATION/ADJUSTMENT REQUEST**

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**CONSTRUCTION COST ESTIMATE****Contract Award Date**

- ☐ Agency Furnished Materials    ☒ Trainees    ☐ Force Account  
☐ Supplemental Work    ☐ State Furnished CE    ☐ Change Orders    ☐ Other

Item #	Item Description	Unit	Qty	Unit Price	Item Cost	Participating Amount	Non-Participating Amount
1	Excavation Safety	LS	1	\$100,000.00	\$100,000.00	\$100,000.00	\$0.00
2	Progress Schedule (Critical Path Method)	LS	1	\$5,000.00	\$5,000.00	\$5,000.00	\$0.00
3	Develop Water Supply	LS	1	\$20,000.00	\$20,000.00	\$20,000.00	\$0.00
4	Construction Area Signs	LS	1	\$20,000.00	\$20,000.00	\$20,000.00	\$0.00
5	Traffic Control System	LS	1	\$250,000.00	\$250,000.00	\$250,000.00	\$0.00
6	Portable Changeable Message Sign	LS	1	\$50,000.00	\$50,000.00	\$50,000.00	\$0.00
7	Temporary Railing (Type K)	LF	520	\$100.00	\$52,000.00	\$52,000.00	\$0.00
8	Temporary Crash Cushion	EA	4	\$7,000.00	\$28,000.00	\$28,000.00	\$0.00
9	Job Site Management	LS	1	\$200,000.00	\$200,000.00	\$200,000.00	\$0.00
10	Prepare Storm Water Pollution Prevention Plan	LS	1	\$5,000.00	\$5,000.00	\$5,000.00	\$0.00
11	Rain Event Action Plan	EA	20	\$500.00	\$10,000.00	\$10,000.00	\$0.00
12	Storm Water Sampling and Analysis Day	EA	20	\$500.00	\$10,000.00	\$10,000.00	\$0.00
13	Storm Water Annual Report	EA	2	\$2,000.00	\$4,000.00	\$4,000.00	\$0.00
14	Temporary Orange Silt Fence	LF	1,400	\$10.00	\$14,000.00	\$14,000.00	\$0.00
15	Prepare Fugitive Dust Control Plan	LS	1	\$2,000.00	\$2,000.00	\$2,000.00	\$0.00
16	Temporary High-Visibility Fence	LF	2,100	\$4.00	\$8,400.00	\$8,400.00	\$0.00
17	Clearing and Grubbing	LS	1	\$165,000.00	\$165,000.00	\$165,000.00	\$0.00
18	Roadway Excavation	CY	4,700	\$90.00	\$423,000.00	\$423,000.00	\$0.00
19	Shoulder Backing	TON	60	\$200.00	\$12,000.00	\$12,000.00	\$0.00
20	Structure Excavation (Bridge)	CY	822	\$115.00	\$94,530.00	\$94,530.00	\$0.00
21	Supplemental Structure Excavation and Backfill	CY	300	\$215.00	\$64,500.00	\$64,500.00	\$0.00
22	Structure Excavation (Rock)	CY	902	\$300.00	\$270,600.00	\$270,600.00	\$0.00
23	Structure Excavation (Soldier Pile Wall)	CY	60	\$115.00	\$6,900.00	\$6,900.00	\$0.00
24	Structure Excavation (Soil Nail Wall)	CY	8,180	\$225.00	\$1,840,500.00	\$1,840,500.00	\$0.00
25	Structure Backfill (Pier)	CY	2,410	\$80.00	\$192,800.00	\$192,800.00	\$0.00
26	Structure Backfill (Bridge)	CY	1,357	\$100.00	\$135,700.00	\$135,700.00	\$0.00
27	Structure Backfill (Soil Nail Wall)	CY	31	\$250.00	\$7,750.00	\$7,750.00	\$0.00
28	Structure Backfill (Soldier Pile Wall)	CY	87	\$210.00	\$18,270.00	\$18,270.00	\$0.00
29	Concrete Backfill (Soldier Pile Wall)	CY	103	\$500.00	\$51,500.00	\$51,500.00	\$0.00



**PROJECT AUTHORIZATION/ADJUSTMENT REQUEST**

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Item #	Item Description	Unit	Qty	Unit Price	Item Cost	Participating Amount	Non-Participating Amount
30	Lean Concrete Backfill	CY	20	\$550.00	\$11,000.00	\$11,000.00	\$0.00
31	Ditch Excavation	CY	89	\$50.00	\$4,450.00	\$4,450.00	\$0.00
32	Imported Borrow	CY	17,000	\$70.00	\$1,190,000.00	\$1,190,000.00	\$0.00
33	Geosynthetic Reinforcement	SY	950	\$60.00	\$57,000.00	\$57,000.00	\$0.00
34	Construct Access (Piers)	LS	1	\$4,000,000.00	\$4,000,000.00	\$4,000,000.00	\$0.00
35	Rolled Erosion Control Product (Netting)	SF	33,000	\$0.60	\$19,800.00	\$19,800.00	\$0.00
36	Fiber Rolls	LF	2,500	\$6.00	\$15,000.00	\$15,000.00	\$0.00
37	Hydroseed (3-Step)	SF	60,000	\$0.20	\$12,000.00	\$12,000.00	\$0.00
38	Class 2 Aggregate Base	CY	1,520	\$150.00	\$228,000.00	\$228,000.00	\$0.00
39	Hot Mix Asphalt (Type A, PG 64-16)	TON	1,400	\$200.00	\$280,000.00	\$280,000.00	\$0.00
40	Place Hot Mix Asphalt Dike (Type A)	LF	200	\$45.00	\$9,000.00	\$9,000.00	\$0.00
41	Cold Plane Asphalt Concrete Pavement	SY	300	\$30.00	\$9,000.00	\$9,000.00	\$0.00
42	Ground Anchor (T = 100 Kips)	EA	121	\$5,850.00	\$707,850.00	\$707,850.00	\$0.00
43	Ground Anchor (T = 200 Kips)	EA	111	\$5,400.00	\$599,400.00	\$599,400.00	\$0.00
44	Soil Nail	EA	5,721	\$50.00	\$286,050.00	\$286,050.00	\$0.00
45	Steel Soldier Pile (HP 12 x 74)	LF	1,279	\$150.00	\$191,850.00	\$191,850.00	\$0.00
46	24" Drilled Hole	LF	1,058	\$250.00	\$264,500.00	\$264,500.00	\$0.00
47	30" Cast-In-Drilled-Hole Concrete Piling	LF	317	\$465.00	\$147,405.00	\$147,405.00	\$0.00
48	Prestressing Cast-In-Place Concrete	LS	1	\$1,557,900.00	\$1,557,900.00	\$1,557,900.00	\$0.00
49	Structural Concrete, Bridge (Footings)	CY	2,231	\$1,200.00	\$2,677,200.00	\$2,677,200.00	\$0.00
50	Structural Concrete, Bridge (Pier)	CY	2,396	\$1,500.00	\$3,594,000.00	\$3,594,000.00	\$0.00
51	Structural Concrete, Bridge (Abutments)	CY	282	\$1,200.00	\$338,400.00	\$338,400.00	\$0.00
52	Structural Concrete, Bridge (Polymer Fiber)	CY	2,411	\$2,500.00	\$6,027,500.00	\$6,027,500.00	\$0.00
53	Structural Concrete, Bridge (Box Girder)	CY	4,031	\$2,500.00	\$10,077,500.00	\$10,077,500.00	\$0.00
54	Structural Concrete, Retaining Wall	CY	405	\$1,200.00	\$486,000.00	\$486,000.00	\$0.00
55	Structural Concrete, Approach Slab (Type EQ Modified)	CY	27	\$1,200.00	\$32,400.00	\$32,400.00	\$0.00
56	PTFE Spherical Bearing	EA	4	\$15,000.00	\$60,000.00	\$60,000.00	\$0.00
57	Joint Seal Assembly (MR 10")	LF	71	\$3,500.00	\$248,500.00	\$248,500.00	\$0.00
58	Bar Reinforcing Steel (Bridge)	LB	2,098,350	\$1.75	\$3,672,112.50	\$3,672,112.50	\$0.00
59	Bar Reinforcing Steel (Retaining Wall)	LB	174,767	\$1.50	\$262,150.50	\$262,150.50	\$0.00
60	Bar Reinforcing Steel (Epoxy Coated, Bridge)	LB	569,037	\$2.00	\$1,138,074.00	\$1,138,074.00	\$0.00



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61	Headed Bar Reinforcement	EA	6,768	\$13.00	\$87,984.00	\$87,984.00	\$0.00
62	Sculpted Shotcrete	SF	10,355	\$25.00	\$258,875.00	\$258,875.00	\$0.00
63	Shotcrete	CY	545	\$800.00	\$436,000.00	\$436,000.00	\$0.00
64	Structural Shotcrete	CY	600	\$1,200.00	\$720,000.00	\$720,000.00	\$0.00
65	Timber Lagging	MBF	9.2	\$7,000.00	\$64,400.00	\$64,400.00	\$0.00
66	Clean and Paint Steel Soldier Piling	LS	1	\$40,000.00	\$40,000.00	\$40,000.00	\$0.00
67	Prepare Concrete Bridge Deck Surface	SF	40,120	\$0.70	\$28,084.00	\$28,084.00	\$0.00
68	Furnish Polyester Concrete Overlay	CF	3,343	\$85.00	\$284,155.00	\$284,155.00	\$0.00
69	Place Polyester Concrete Overlay	SF	40,120	\$8.00	\$320,960.00	\$320,960.00	\$0.00
70	18" Plastic Pipe	LF	281	\$280.00	\$78,680.00	\$78,680.00	\$0.00
71	48" Plastic Pipe	LF	188	\$460.00	\$86,480.00	\$86,480.00	\$0.00
72	18" Plastic Pipe Downrain (Fusion Welded)	LF	599	\$190.00	\$113,810.00	\$113,810.00	\$0.00
73	Welded Steel Pipe Casing (Bridge)	LF	40	\$230.00	\$9,200.00	\$9,200.00	\$0.00
74	18" Steel Flared End Section	EA	1	\$2,000.00	\$2,000.00	\$2,000.00	\$0.00
75	48" Steel Flared End Section	EA	2	\$3,000.00	\$6,000.00	\$6,000.00	\$0.00
76	36" Precast Concrete Pipe Inlet (Type OCPI or GCP)	EA	3	\$5,000.00	\$15,000.00	\$15,000.00	\$0.00
77	Drainage Inlet	EA	3	\$6,000.00	\$18,000.00	\$18,000.00	\$0.00
78	48" Precast Concrete Pipe Inlet (Type OCPI or GCP)	EA	4	\$8,000.00	\$32,000.00	\$32,000.00	\$0.00
79	36" Precast Concrete Pipe Manhole	EA	1	\$7,000.00	\$7,000.00	\$7,000.00	\$0.00
80	Remove Pipe	LF	32	\$100.00	\$3,200.00	\$3,200.00	\$0.00
81	Concrete (Ditch Lining)	CY	27	\$2,500.00	\$67,500.00	\$67,500.00	\$0.00
82	Rock Slope Protection (1/4 T, Class V, Method A)	TON	76	\$280.00	\$21,280.00	\$21,280.00	\$0.00
83	Rock Slope Protection (300 lb, Class IV, Method A)	TON	644	\$245.00	\$157,780.00	\$157,780.00	\$0.00
84	Rock Slope Protection (150 lb, Class III, Method B)	TON	3,486	\$190.00	\$662,340.00	\$662,340.00	\$0.00
85	Rock Slope Protection (60 lb, Class II, Method B)	TON	299	\$175.00	\$52,325.00	\$52,325.00	\$0.00
86	Concreted-Rock Slope Protection (Class III, Method A)	TON	59	\$350.00	\$20,650.00	\$20,650.00	\$0.00
87	Minor Concrete (Gutter)	CY	5	\$800.00	\$4,000.00	\$4,000.00	\$0.00
88	Miscellaneous Metal (Bridge)	LB	13,900	\$8.00	\$111,200.00	\$111,200.00	\$0.00
89	Prepare and Stain Shotcrete	SF	10,355	\$5.00	\$51,775.00	\$51,775.00	\$0.00
90	Stain Galvanized Surfaces	LS	1	\$30,000.00	\$30,000.00	\$30,000.00	\$0.00
91	Inclinometers	EA	8	\$7,000.00	\$56,000.00	\$56,000.00	\$0.00
92	Delineator (Type E/Class 2, Barrier Mounted, or Culvert Marker)	EA	25	\$50.00	\$1,250.00	\$1,250.00	\$0.00



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93	Roadside Sign - One Post	EA	12	\$500.00	\$6,000.00	\$6,000.00	\$0.00
94	Midwest Guardrail System (Steel Post)	LF	290	\$90.00	\$26,100.00	\$26,100.00	\$0.00
95	Vegetation Control (Minor Concrete)	SY	250	\$80.00	\$20,000.00	\$20,000.00	\$0.00
96	Tubular Handrailing (Modified)	LF	2,666	\$125.00	\$333,250.00	\$333,250.00	\$0.00
97	Cable Railing	LF	629	\$80.00	\$50,320.00	\$50,320.00	\$0.00
98	Transition Railing (Type STB)	EA	1	\$8,000.00	\$8,000.00	\$8,000.00	\$0.00
99	Transition Railing (Type WB-31)	EA	3	\$6,000.00	\$18,000.00	\$18,000.00	\$0.00
100	MASH In-Line Terminal System	EA	5	\$5,000.00	\$25,000.00	\$25,000.00	\$0.00
101	Concrete Barrier (Type 85 Modified)	LF	2,678	\$450.00	\$1,205,100.00	\$1,205,100.00	\$0.00
102	6" Thermoplastic Traffic Stripe	LF	8,000	\$4.00	\$32,000.00	\$32,000.00	\$0.00
103	Thermoplastic Pavement Markings	SF	100	\$50.00	\$5,000.00	\$5,000.00	\$0.00
104	Mobilization	LS	1	\$4,848,058.00	\$4,848,058.00	\$4,848,058.00	\$0.00
105	48" Cast-In-Drilled-Hole Concrete Piling	LF	2,782	\$1,125.00	\$3,129,750.00	\$3,129,750.00	\$0.00
106	Bar Reinforcing Steel (Bridge)	LB	285,644	\$1.50	\$428,466.00	\$428,466.00	\$0.00
107	HS Bar	LB	50,512	\$3.00	\$151,536.00	\$151,536.00	\$0.00

**Trainees**

1	Federal Trainee Program	EA	36	\$800.00	\$28,800.00	\$28,800.00	\$0.00
<b>Contract Items Subtotal</b>					\$56,400,000.00	\$56,400,000.00	\$0.00
<b>Trainees Subtotal</b>					\$28,800.00	\$28,800.00	\$0.00
<b>Contingencies Subtotal 10%</b>					\$5,611,200.00	\$5,611,200.00	\$0.00
<b>Construction (CON) Subtotal</b>					\$62,040,000.00	\$62,040,000.00	\$0.00
<b>Construction Engineering (CE) Subtotal 15%</b>					\$8,460,000.00	\$8,460,000.00	\$0.00
<b>TOTAL AMOUNT FOR CONSTRUCTION PHASE</b>					\$70,500,000.00	\$70,500,000.00	\$0.00

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**REQUIRED SUPPORTING DOCUMENTS**

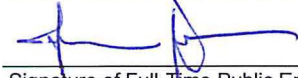
Include the following items with this form [(✓ = required, • = required if applicable)]. *This list does not represent all documents required to be in the agency's project files. The District Local Assistance Engineer may request additional documents for authorization/adjustment.*

Project Document	CON/CE ADJ
FTIP Document (Include CMAQ Emissions Benefits Calculations, Back-up List and EPSP Approval if applicable)	•
NEPA Approval Document (LAPM Exhibit 6-F / 6-G)	•
Right of Way Certification (LAPM Exhibit 13-A / 13-B)	•
FHWA Specific Authorization to Relocate Utilities (LAPM Exhibit 14-C)	•
Cost-Effectiveness/Public Interest Finding (LAPM Exhibit 12-F)	•
Request for Local Advance Construction Authorization (LAPM Exhibit 3-I)	
Value Engineering Analysis	✓

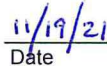
**RESPONSIBLE CHARGE CERTIFICATION**

I certify that the information provided in this request is accurate and correct. Any changes to the project scope, cost, or schedule will be communicated to the District Local Assistance Engineer. This Agency agrees to comply with the applicable terms and conditions set forth in Title 23, U.S. Code, Highways, and the policies and procedures promulgated by the Federal Highway Administration (FHWA) and California Department of Transportation relative to the above-designated project.

I understand that this Agency is responsible for all costs incurred prior to receiving authorization to proceed. In addition, this Agency will be responsible for all costs in excess of the federal and/or state funds encumbered to complete the above-designated project.



Signature of Full-Time Public Employee in Responsible Charge



Date

Jon Bauer

Print Name

Senior Civil Engineer

Title

**REMARKS**

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