TASK ORDER NO. 2

(ON-CALL CONSTRUCTION MANAGEMENT FOR HBP FUNDED BRIDGE PROJECTS)

THIS TASK ORDER is made and entered into this_____day of _____, 2020, by and between the COUNTY OF LAKE, hereinafter referred to as COUNTY, and MGE ENGINEERING, INC., On-Call Construction Management Firm for HBP Funded Bridge Projects, hereinafter referred to as CONSULTANT:

WITNESSETH:

WHEREAS, COUNTY has entered into a Master Agreement dated July 14 2020, with CONSULTANT to perform construction management and inspection services for HBP funded bridge projects, including project management and coordination, environmental compliance, right of way coordination, construction engineering, materials validation, labor compliance, and construction inspection; and,

WHEREAS, COUNTY desires CONSULTANT to perform specific services under the said Master Agreement,

NOW, THEREFORE, IN CONSIDERATION OF the covenants and agreements herein set forth, it is hereby agreed:

1. This Task Order supplements said Master Agreement, and the terms of said Master Agreement apply hereto.

2. ***Project***

The project covered by this Task Order:

- **Bartlett Springs Road at Cache Creek Bridge Rehabilitation**
  Federal Project No. BRLO-5914(092)

3. ***Scope of Work***

The scope of work covered by this Task Order is described in Exhibit "A" and includes the following tasks:

a. Project management and coordination.
b. Environment compliance.
c. Materials validation.

d. Labor compliance.

e. Construction inspection.

f. Project closeout.

4. Compensation

As full compensation for all work or services to be provided by CONSULTANT hereunder, COUNTY shall make payments to CONSULTANT at the times and in accordance with the procedures set forth in the Master Agreement. The total fee for the project will be a lump sum amount of **One Hundred Eighty Thousand Six Hundred Twenty Five Dollars and Seventy Five Cents ($180,625.75),** not to be exceeded without prior approval of COUNTY. Payments shall be made on a percent completed basis based upon satisfactory documentation of work completed. Documentation shall be submitted to COUNTY along with each invoice summarizing the work performed and justifying the percentage completion. Any additional services will be paid on a time and expense basis according to the fee schedule provided in Exhibit "A".

5. Time of beginning and Completion of Services

Work shall begin no later than five (5) calendar days after CONSULTANT's receipt of a COUNTY issued Notice to Proceed for the assigned Task Order. CONSULTANT shall perform services within the times or by the dates provided in Exhibit "A", except that, if applicable, the schedule may be adjusted to reflect any delay in issuance of the Notice to Proceed, or other delay factors not subject to CONSULTANT control.

COUNTY and CONSULTANT have executed this Agreement on the day and year first written above.

COUNTY OF LAKE:	CONSULTANT:
_____	_____
Chair, Board of Supervisors	H. Fred Huang, President
ATTEST:	APPROVED AS TO FORM:
CAROL J. HUCHINGSON	ANITA L. GRANT
Clerk of the Board of Supervisors	County Counsel
By:_____	By: Anita Grant (Aug 18, 2020 18:33 PDT)

Bartlett Springs Road over Cache Creek Bridge Rehabilitation Project

Scope of Services

This Scope of Services below is based on MGE's understanding of the specific process to be used in providing Construction Management services for the Bartlett Springs Road over Cache Creek Bridge Rehabilitation Project. Tasks are described in detail below.

TASK 1 Project Management and Coordination

Task 1.1 Project Initiation

MGE will prepare and conduct a pre-construction conference. Topics of discussion will be: outline of project specifics, project administration procedures, labor compliance, equal employment opportunity, record keeping, State and Federal safety laws, DBE involvement, use of local businesses and subcontractors, environmental requirements including Storm Water Pollution Prevention, utility issues, traffic control issues, safety problems, etc. This meeting will establish a cooperative (partnering) attitude between MGE, field staff, the County, and the Contractor.

Deliverables: Meeting agendas, materials (graphics, visual aids and other presentation items), and minutes

Task 1.2 Coordination

1.2.1 Point of Contact – MGE will develop a list of individuals as points of contact for maintaining liaison and coordination throughout the project.

1.2.2 Project Data and Forms – MGE will utilize the Caltrans Field Office File Category System, with any modifications the County may find necessary. Should the files need to be changed for any reason MGE will obtain previous acceptance from the County.

1.2.3 Project Title and Descriptions – In reference to the project in any forms or formal written materials, MGE will use the project title of: Bartlett Springs Road over Cache Creek Bridge Rehabilitaion Project. In e-mails and on forms with restricted space, MGE will use the short project description of: Bartlett Springs Road Bridge Rehabilitation.

1.2.4 Project Coordination with County – MGE will coordinate with the County through phone conversations, emails, written memoranda, fax, meetings, etc.

1.2.5 Project Work Plan – MGE will develop, maintain, and implement a detailed work plan that includes project goals and objectives, roles and responsibilities, a communication plan, project controls, scope and deliverables, schedule and budget, and our Quality Control Plan. The Project Work Plan will include project authority, communications, and project documentation including:

• Project organization • Meetings • Communications management • Preparation of management reports • Clarifications and contract interpretations of specifications (RFIs) • Submittals and shop drawings • Design modifications • Change orders • Schedule management • Claims management • Testing and testing documentation	• Progress pay estimate preparation • Inspection and inspection reporting • Defective work correction • Record drawings • Complaint and community relations procedures • Safety • Photo and video documentation • Certified payroll review, DBE compliance, and labor compliance • Preparation of documents as needed for Federal, State, and local funds • Special inspections

1.2.6 Project Schedule and Budget Management – MGE will provide the following:

- Project Schedule – MGE will obtain a project schedule from the Contractor. The Project Schedule will include the Contractor's internal Quality Control process and designated County reviews of submitted documents. MGE will update the Project Schedule as necessary, review, monitor, and document changes to the Contractor's schedule.

- Budget Management, Cost Control, and Progress Payments - MGE will maintain and manage our team's schedule, budget and subconsultant contracts. MGE will monitor project funding, financing, and budgets. MGE will review the Engineer's estimates, contract item payments, material quantities, and change order

payments. MGE will review the Contractor's payment requests, verify pay items, and prepare payment documentation for execution by the County.

Deliverables: cash flow reports, budget reports, cost estimate reviews

1.2.7 Daily paperwork – MGE will prepare all daily paperwork required under Caltrans requirements and submit daily. MGE will develop a system for organizing, tracking, filing, and managing paper/electronic correspondence including letters, information requests, submittals, contracts, reports, O&M manuals, progress payments, and change orders. All project files will be maintained per procedures established by the County and will include:

- Daily observation of construction work and job site safety. MGE will notify the County in advance of any significant activities to permit their participation. (Note: Contractor will be responsible for all construction staking).

- A photo record for the project site and adjacent properties to document preconstruction conditions including a photo log and descriptions of the work being recorded, date and time.

Deliverables: paper files, electronic files, correspondence logs, suspense lists

1.2.8 Records Filing System - MGE will develop a project records filing system based on the Caltrans Construction Manual. Project records will include Contractor budget control measures (including itemized accounting of each contract item) and a Contractor payment schedule. Project files will be kept up-to-date and will be monitored by the Construction Manager. Files will contain records for materials testing, survey verification, schedule reviews, and permit monitoring.

1.2.9 Records Maintenance - MGE will:

- Receive and process Contractor-developed material, plan, and Requests for Information (RFI) submittals
- Develop and maintain a log of Contractor-developed submittals
- Review for approval any Contractor-developed submittals for staging, traffic handling, shoring and falsework plans, shop plans, and other Contractor-developed plans
- Maintain records so that the County can successfully refute Contractor claims for extra work
- DCM group as a subconsultant to MGE will monitor and audit certified payrolls of the Contractor and their Subcontractor's personnel to verify compliance with all State and Federal laws. MGE will conduct required labor compliance interviews in the field.
- Review potential contract change orders (CCO) for contractual and technical merit. Prepare independent cost estimate and schedule analysis of work. Prepare CCO's covering extra work authorized by the County. Negotiate CCO's for County-approved extra work keeping the County fully informed of status. Maintain daily extra work bills, quantity measurements, or such other information as necessary to document payment to the Contractor for the extra work. Maintain change order summary reports.
- Determine pay quantities and prepare monthly progress estimates for County.

1.2.10 Weekly Status Reports - MGE will submit weekly status reports that include all paperwork required by Caltrans. Reports will be sufficiently detailed so the County can determine that MGE is performing to expectations and is on schedule. Reports will communicate interim findings and sufficiently address any difficulties or special problems encountered so remedies can be developed. Submittals will be reviewed by the County's In-charge Inspector. Status reports will include status of services by: task breakdown, problems encountered, percent of services complete as of the date of the progress report and discussion of schedule changes, work products, issues currently being addressed and other items of interest as applicable.

Deliverables: Inspection Daily Diaries, Resident Engineer Diaries, Weekly Statements of Working Days

1.2.11 Invoices – MGE will prepare periodic invoices providing a summary of work, including covered dates of service, and copies of invoices from any subconsultants. Invoices will include the County's project number and consultant agreement number and will be consistent with the Local Assistance Procedures Manual, Chapter 10, Section 10.8 under "Invoicing (or Progress Payments)". MGE will follow Caltrans and County guidelines for submitting invoices.

1.2.12 Issue/Action Item/Decision Log – MGE will develop and maintain a project Issue/Action Item/Decision log.

1.2.13 Site Safety – MGE will review and monitor the Contractor's safety program for compliance with Cal/OSHA and notify the Contractor if unsafe condition is being observed. If the Contractor refuses to rectify unsafe condition, MGE will notify the applicable authority(s). MGE will investigate accidents and make accident reports.

Deliverables to be placed in the Project Records:

- *All reports delivered to the In-charge Inspector*
- *Draft and Final Project Work Plan*
- *Contractor-developed Project schedule with updates as provided for in County's Contract Documents*
- *Project LAPM/LAPG Exhibits, as needed*
- *Monthly invoices and progress reports*
- *Communication documents (emails, memos, etc.)*

Task 1.3 Management Quality Plan

MGE will prepare and implement a plan for Quality Assurance and Quality Control for the Project which will include Quality Control procedures to be used on all deliverables.

Deliverables:

- *Draft and Final Quality Assurance Program.*
- *Quality Review Documentation and certification for all deliverables.*

Task 1.4 Project Team Meetings

Weekly Meetings - MGE will schedule, prepare for, and conduct Project Team Meetings with the County and the Contractor weekly or as necessary to discuss schedule, task progress, and issues to be addressed. Key team members will be present at each team meeting depending on items to be discussed in person or by remote means such as zoom, google meet, or other remote capable media.

Deliverables:

- *Meeting agendas*
- *Meeting materials (graphics, visual aids and other presentation items).*
- *Updated Issue/Action Item/Decision Log*
- *Updated Project Schedule*
- *Meeting minutes*

TASK 2 Environmental Compliance

Task 2.1 Permit/Environmental Compliance

MGE will review and enforce requirements stipulated in permits issued by regulatory and environmental agencies per Appendix A of the Special Provisions, Book 1 of 2, Volume 1.

Task 2.2 Storm Water Pollution Prevention Plan (SWPPP)

MGE will insure that the Contractor stays in compliance with the SWPPP by reviewing for approval Contractor-developed SWPPP submittal and by monitoring the approved SWPPP for compliance.

TASK 3 Materials Validation

Task 3.1 Materials Testing

MGE will perform all materials testing accordance with the Construction Contract documents and Caltrans' standards regarding the Contractor's painting activities.

Per Note 3 on Sheet 5 of 5, MGE's inspector will validate and document that the Contractor's painting activities are performed in accordance with Chapter 4, Section 59 in the Caltrans Construction Manual (July 2019) entitled "Structural Steel Coatings", Section 155 "Paint" of the Structure Construction's Bridge Construction Records and Procedures manual, Volume 2, the Federal Highway Administration's "Field Manual for Bridge Paint Inspection", and Caltrans Bridge Construction Memo 155-1 "Cleaning and Painting of Structural Steel".

Per Note 6 on Sheet 5 of 5, MGE'd inspector will inspect at the following points of the project, prior to continuance with the next stage of this project: Completion of pressure washing (SP-1 cleaning), completion of surface preparation (SP-6 Blast Cleaning), completion of primer coatings, and Completion of finish coating.

MGE has the testing tools necessary to do Quality Assurance testing for contract requirements at each stage of the rehabilitation of the structural steal coating replacement.

Deliverables to be placed in the Project Records:

- *Copies of all test results*
- *Copies of applicable daily field paint records*

TASK 4 Project Construction Closeout

MGE will:

- Perform final observation of the project upon completion and provide written certification of substantial conformity with PS&E. Collect all written warranties provided by vendors, manufacturers, and CONTRACTOR.
- Compute the final quantities and prepare the final estimate.
- Determine over-runs and under-runs and prepare a report of same with explanation of each. □ Prepare the Final Invoice, Final Detail Estimate, Change Order Summary, Liquidated Damages/Contractors' Claims Report, Materials Certification, Report of Completion, and such other forms and reports as may be required.
- Provide the original set of the project records, including inspections reports, summaries, testing documentation, meeting minutes, RFIs, schedules, correspondence, maps, plans, photo record, shop drawings, submittals, and manufacturers literature. An electronic copy of the project computer files will also be provided.
- Assist the County with post-completion dispute resolution.

Task 4.1 – Project Punch List

MGE will prepare a list of items to be addressed to complete the project, or "punch list". The punch list will be typed, dated, and show the preparer's name and contact telephone number. Each item will reference the plan sheet number on which the item is drawn, the specifications reference and the exact shortcoming. In addition, MGE will schedule and conduct a project walk-through with the County and Contractor personnel to establish a "punch list" of items of work that are not satisfactory. MGE will assist the County in getting "punch list" items resolved.

Deliverables: Three copies of each punch list

Task 4.2 – As-Built Plans

MGE will coordinate with the Contractor to prepare a set of "as-built" plans. The as-built plans will be provided on the 24"x36" white paper copy provided by the County. All as-built information will be legibly hand-written in indelible red ink. Language will be developed for agreement by the Contractor, MGE and the County for completeness and accuracy. In addition, MGE will obtain from the County a set of full-size plans to be used as a working set of "as-built" drawings to note all changes as they occur.

Deliverables: Original as-built plans

County Responsibilities

MGE's understanding is that the following will be provided by the County:

- Provide copies of construction contract documents.
- Processing of Progres Pay Estimates, and Final Estimate.
- Appropriate staff available for meetings, site visits, and training.
- Discuss with the Resident Engineer, recommendations made by the Resident Engineer.
- Review Construction Change Orders prior to authorization.
- Process authorized Construction Change Orders, if estimated contract cost increase, for approval by the Board of Supervisors.
- Forward RFIs to the design engineer, and coordinate subsequent discussions amongst the project team, if necessary.
- Assist with Biological and Archeological Monitoring and Surveys if permitting agencies become involved.
- Review notifications or letters prepared by the Resident Engineer prior to transmittal.
- Communicate with State and Federal agencies and Communicate with and provide information to the public.

EXHIBIT 10-H2 COST PROPOSAL Page 1 of 3

SPECIFIC RATE OF COMPENSATION (USE FOR ON-CALL OR AS-NEEDED CONTRACTS)
(NON- PREVAILING WAGE CONSTRUCTION ENGINEERING AND INSPECTION CONTRACTS)

Note: Mark-ups are Not Allowed

Consultant MGE Engineering, Inc. [X] Prime Consultant [ ] Subconsultant [ ] 2nd Tier Subconsultant

Project No. BRLO-5914 (092) Contract No. Bid No. 20-09 Participation Amount $ 177,009.27 Date 8/18/2020

For Combined Rate							
	Fringe Benefit % + General &Administrative %				=	Combined ICR %	
OR							
For Home Office Rate							
	Fringe Benefit	51.47%	+	General &Administrative	114.48%	=	Home Office ICR 165.95%
For Field Office Rate							
	Fringe Benefit	48.62%	+	General &Administrative	98.02%	=	Field Office ICR 146.64%
					Fee	=	13%

BILLING INFORMATION / CALCULATION INFORMATION

Name/Job Tile/Classification[1]	Hourly Billing Rates[2] Straight[3]	To(1.5x)	To(2x)	Effective date of hourly rate From	To	Actual or Avg. hourly rate[4]	% or $ increase	Hourly range – for Classification only
Joe Siemers, P.E., QSD *	$ 204.36	NA	NA	1/1/2020	12/31/2020	$ 68.00	0%	Not Applicable
Construction Manager	$ 214.57	NA	NA	1/1/2021	12/31/2021	$ 71.40	5%	
	$ 225.30	NA	NA	1/1/2022	12/31/2022	$ 74.97	5%	
	$ 236.57	NA	NA	1/1/2023	12/31/2023	$ 78.72	5%	
	$ 248.40	NA	NA	1/1/2024	12/31/2024	$ 82.65	5%	
Mohammad Rezaian **	$ 189.52	$ 284.28	$ 379.04	1/1/2020	12/31/2020	$ 68.00	0%	Not Applicable
RE/Struc Rep/Inspector	$ 198.99	$ 298.49	$ 397.99	1/1/2021	12/31/2021	$ 71.40	5%	
	$ 208.94	$ 313.42	$ 417.89	1/1/2022	12/31/2022	$ 74.97	5%	
	$ 219.39	$ 329.09	$ 438.78	1/1/2023	12/31/2023	$ 78.72	5%	
	$ 230.36	$ 345.54	$ 460.72	1/1/2024	12/31/2024	$ 82.65	5%	
John Rogers, PE**	$ 189.52	$ 284.28	$ 379.04	1/1/2020	12/31/2020	$ 68.00	0%	Not Applicable
RE/Struc Rep/Inspector	$ 198.99	$ 298.49	$ 397.99	1/1/2021	12/31/2021	$ 71.40	5%	
Expert consultation and	$ 208.94	$ 313.42	$ 417.89	1/1/2022	12/31/2022	$ 74.97	5%	
submittal reviews	$ 219.39	$ 329.09	$ 438.78	1/1/2023	12/31/2023	$ 78.72	5%	
	$ 230.36	$ 345.54	$ 460.72	1/1/2024	12/31/2024	$ 82.65	5%	
Wesley Sennett, PE**	$ 198.35	NA	NA	1/1/2020	12/31/2020	$ 66.00	0%	Not Applicable
Senior Engineer	$ 208.26	NA	NA	1/1/2021	12/31/2021	$ 69.30	5%	

Submittal Reviews	$ 218.68 $ 229.61 $ 241.09	NA NA NA	NA NA NA	1/1/2022 1/1/2023 1/1/2024	12/31/2022 12/31/2023 12/31/2024	$ 72.77 $ 76.40 $ 80.22	5% 5% 5%	
	$ - $ - $ - $ - $ -	$ - $ - $ - $ - $ -	$ - $ - $ - $ - $ -	1/1/2020 1/1/2021 1/1/2022 1/1/2023 1/1/2024	12/31/2020 12/31/2021 12/31/2022 12/31/2023 12/31/2024	 $ - $ - $ - $ -	0% 5% 5% 5% 5%	Not Applicable
	$ - $ - $ - $ - $ -	$ - $ - $ - $ - $ -	$ - $ - $ - $ - $ -	1/1/2020 1/1/2021 1/1/2022 1/1/2023 1/1/2024	12/31/2020 12/31/2021 12/31/2022 12/31/2023 12/31/2024	$ - $ - $ - $ - $ -	0% 5% 5% 5% 5%	0.00 - 0.00 0 - 0.00 0.00 - 0.00 0.00 - 0.00 0.00 - 0.00
	$ - $ - $ - $ - $ -	$ - $ - $ - $ - $ -	$ - $ - $ - $ - $ -	1/1/2020 1/1/2021 1/1/2022 1/1/2023 1/1/2024	12/31/2020 12/31/2021 12/31/2022 12/31/2023 12/31/2024	$ - $ - $ - $ - $ -	0% 5% 5% 5% 5%	0.00 - 0.00 0 - 0 0.00 - 0.00 0.00 - 0 0.00 - 0.00

NOTES:

1. Key personnel **must** be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**).All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
2. The cost proposal format shall not be amended.
3. Billing rate = actual hourly rate * (1+ ICR) * (1+ Fee). Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans. All costs must comply with the Federal cost principles for reimbursement.
4. For named employees and key personnel enter the actual hourly rate. For classifications only, enter the Average Hourly Rate for that classification.

EXHIBIT 10-H2 COST PROPOSAL Page 2 of 3

SPECIFIC RATE OF COMPENSATION (USE FOR ON-CALL OR AS-NEEDED CONTRACTS)
(CONSTRUCTION ENGINEERING AND INSPECTION CONTRACTS)

Consultant MGE Engineering, Inc. [X] Prime Consultant [ ] Subconsultant

Project No. BRLO-5914 (077) Contract No. Bid No. 20-10 Date 8/18/2020

SCHEDULE OF OTHER DIRECT COST ITEMS (Add additional pages as necessary)				
Description ofItem	**Quantity**	**Unit**	**Unit Cost**	**Total**
Mileage Costs	12,890	Mile	0.575	$7,411.75
Per Diem	60	Day	CT Travel Guide	$10,570.00
Subconsultant 1: DCM Group Labor Compliance services				$3,616.48
Subconsultant 2:				
Subconsultant 3:				
Subconsultant 4:				
Subconsultant 5:				$

Note: Add additional pages if necessary.

NOTES:

1. List other direct cost items with estimated costs. These costs should be competitive in their respective industries and supported with appropriate documentation.
2. Proposed ODC items should be consistently billed regardless of client and contract type.
3. Items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in the overhead rate.
4. Items such as special tooling, will be reimbursed at actual cost with supporting documentation (invoice).
5. Items listed above that would be considered "tools of the trade" are not reimbursable as other direct cost.
6. Travel related costs should be pre-approved by the contracting agency and shall not exceed current State Department of Personnel Administration rules.
7. If mileage is claimed, the rate should be properly supported by the consultant's calculation of their actual costs for company vehicles. In addition, the miles claimed should be supported by mileage logs.
8. If a consultant proposes rental costs for a vehicle, the company must demonstrate that this is its standard procedure for all of their contracts and that they do not own any vehicles that could be used for the same purpose.
9. The cost proposal format shall not be amended. All costs must comply with the Federal cost principles.
10. Add additional pages if necessary.
11. Subconsultants must provide their own cost proposals.

EXHIBIT 10-H2 COST PROPOSAL Page 3 of 3

Certification of DirectCosts:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

7. Generally Accepted Accounting Principles (GAAP)
8. Terms and conditions of the contract
9. Title 23 United States Code Section 112 - Letting of Contracts
10. 48 Code of Federal Regulations Part 31 - Contract Cost Principles and Procedures
11. 23 Code of Federal Regulations Part 172 - Procurement, Management, and Administration of Engineering and Design Related Service
12. 48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Prime Consultant or Subconsultant Certifying:

Name: H. Fred Huang Title *: President

Signature : H F Huang Date of Certification (mm/dd/yyyy): 8/18/2020

Email: fhuang@mgeeng.com Phone Number: 916-421-1000

Address: 7415 Greenhaven Drive, Suite 100, Sacramento, CA 95831

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

Construction Management Services for Bartlett Springs Road over Cache Creek Bridge Rehabilitation Project.

Lake County
Bartlett Springs Road over Cache Creek Bridge Rehabilitation Project (Br. No. 14C0107) HBP No. BRLO-5914 (092) Construction Management Services - MGE Engineering - Estimated Hours August 18, 2020

	Joe Siemers, P.E. - MGE Project Manager	Mohammad Rezaian RE/Structure Rep/Inspector - MGE	John Rodgers, P.E. RE/Structure Rep - MGE	Wesley Sennett, P.E. RE/Submittal review - MGE	MGE Task Total Hours	DCM (Labor Compliance)	Mohammad Rezaian RE/Structure Rep/Inspector - MGE Overtime if needed
Hourly Rate	**204.36**	**189.52**	**189.52**	**198.35**			**284.28**
Task 1 - PRECONSTRUCTION SERVICES							
270 . 25 Construction Contract Administration Work	40	40	16	8	104		
270 . 99 Other Construction Engineering and General Contract Administration	10	10			20		
SUBTOTAL HOURS	50	50	16	8	124		
COST	$10,218.00	$9,476.00	$3,032.32	$1,586.80	$ 24,313.12		$0.00
Task 2 - CONSTRUCTION SERVICES							
270 Construction Engineering and General Contract Administration							
270 . 20 Perform Construction Engineering Work					0		
270 . 25 Construction Contract Administration Work	20	60			80		
270 . 30 Contract Item Work Inspection		308			308		40
270 . 35 Construction Material Sampling and Testing		60	20		80		
270 . 40 Perform Safety and Maintenance Reviews		8			8		
270 . 45 Relief from Maintenance Process		8			8		
270 . 55 Perform Final Inspection and Recommend Acceptance	8	8			16		
270 . 56 Employment Compliance		4			4	$3,616.48	
270 . 65 TMP Implementation During Construction		8			8		
270 .70 Environmental Mitigation/Mitigation Monitoring during Construction Contract		8			8		
270 . 99 Other Construction Engineering and General Contract Administration	8	8			16		
SUBTOTAL HOURS	36	480	20		536		
COST	$7,356.96	$90,969.60	$3,790.40		$102,116.96		$11,371.20
285 Prepare and Administer Contract Change Orders							
285.05 Contract Change Order Process		8			8		
285.10 Functional Support					0		
290 Resolve Contract Claims							
290 . 05 Review and Analyze Notices of Potential Claims		4			4		
290 . 10 Supporting Documentation & Responses to NOPCs		4	0		4		
SUBTOTAL HOURS	0	16	0		16		
COST	$0.00	$3,032.32	$0.00		$ 3,032.32		$0.00
Task 3 - POST CONSTRUCTION SERVICES							
295 Accept Contract, Prepare Final Construction Estimate, and Prepare Final Report							
295 . 05 Process Estimate After Acceptance		8			8		
295 . 10 Prepare Proposed Final Contract Estimate		8			8		
295 . 15 As-Built Plans	0	8			8		
295 . 20 Prepare Project History File		24			24		
295 . 25 Prepare Final Report		16			16		
295 . 30 Process Final Estimate		8			8		
295 . 99 Other Accept Contract/Prepare Final Construction Estimate and Final Report		16	8		24		
SUBTOTAL HOURS	0	88	8	0	96		0
COST	$0.00	$16,677.76	$1,516.16		$ 18,193.92		$0.00
TOTAL HOURS	86	634	44	8	772		0
TOTAL LABOR COST	$17,574.96	$120,155.68	$8,338.88	$1,586.80	$147,656.32	$3,616.48	$0.00
Per Diem (60 days short term, no receipts required for meals per Caltrans Travel Guide)					$ 10,570.00		
Mileage: Estimated 143 miles per trip x 30 trips at $0.575/mile (Project Manager)					$ 2,466.75		
Mileage: Estimated 128 mi x 40 trips + 25 mi x 82 trips at $0.575/mile (RE/SR)					$ 4,122.75		
Mileage: Estimated 143 mi x 10 trips at $0.575/mile (RE/SR)					$ 822.25		

The cost of our services includes furnishing of all materials, equipment and computers, labor and insurance for all services as outlined in the County's Request for Proposal. Full-time working hours are included for our RE/Structure Rep for 60 Working Days with exception of additional overtime hours, should the Contractor choose to accelerate the project schedule to avoid weather conditons that may delay the project.
WBS codes for MGE internal purposes

$180,625.75

	Start Location	End Location	miles	trips	Total
Project Manager Joe Siemers	MGE Office	Jobsite	143	30	**4,290**
Resident Engineer/Structure Rep	Davis	Jobsite	128	40	5,120
Mohammad Rezaian	Nice	Jobsite	25	82	2,050
					7,170
Resident Engineer/Structure Rep John Rogers	MGE Office	Jobsite	143	10	1,430
					1,430

Short Term (30 days)

Hotel	$90/night +$15 taxes and fees	
Breakfast	$8 *	
Lunch	$12 *	
Dinner	$20 *	
Incidentals	$6 *	(* No receipt required, per Caltrans Travel Guide)
total/day =	$151	

Assume work is between September 1, 2020 to November 30, 2020 (60 working days)

RE/Structure Rep 60*$151 = $9,060.00 (without overtime)

If Contractor accelerates schedule and works 6 days/10 hrs/day work is between September 1, 2020 to October 28, 2020
*partial/selected overtime days

RE/Structure Rep 10 nights*$ $1,510.00 (for weekend overtime days)

If the Contractor chooses to accelerate the project to 6-day/10 hr shift:

results in 20 additional hours per week:

60 Working Days = 480 hours/60 hrs per week = 8 weeks of project time

8 weeks of project time is approximately 40 Working Days finishing on Oct 28th (assuming a start on September 1)

Overtime cost = 5 hrs/week * 8 weeks = 40hrs; 40 * $284.28 = $11,371.20

We don't know that the Contractor will accelerate the project, but might, due to weather conditions affection the painting operation

MOHAMMAD A. REZAIAN, PE

Years of Experience: 30+

Education
BS/1984/Civil Engineering/ San Diego State University
MS/1986/Civil Engineering/San Jose State University
DBA/2014/Doctor of Business Administration/Asia H. E. Institute/IRAN

Professional Registration
1991/Civil Engineering/CA#44579

Key Qualifications
Mr. Rezaian has over thirty (30) years of professional experience in design, construction consultant management, and site supervision for various construction activities including: site coordination, planning, budgeting, cost estimating, supervision and management of meetings with clients and contractors. Mr. Rezaian is a highly motivated and dedicated team leader. He maintains relations with all parties, colleagues and senior management to ensure smooth and efficient progress to complete projects within the stipulated budget and time limit. He has excellent analytical, problem solving, team coordination, office management and computer skills. Extensive knowledge and experience on local utilities and land development regulations (in-state and internationally). His experience includes working with local governments, California Department of Transportation, Bay Area Rapid Transit and The Ministry of Road and Urban Development in Iran.

Relevant Projects

- **Caltrans Highway 101 Widening, Highway 101 HOV and Highway 85 Extension, Measure A Projects, Santa Clara County, CA** - Office Engineer responsible for preparation of quantity take-offs, preparing construction cost estimates, conducting traffic studies, road alignment design, preparation of alignment studies, horizontal and vertical design of roadways, geometric layouts, roadway and storm drain design, sidewalk and interchange layout, daily progress reports and overall project schedule.

- **Bay Area Rapid Transit (BART) Extension, Dublin/Pleasanton and West Pittsburg, CA** – Project Engineer responsible for communication with public agencies, utility companies, and contractor to coordinate easements and right-of-way. Participation in design coordination meetings, and site visits. Assisted with design documents to meet the requirements of the project specifications. Worked with project engineers on a detailed utility design of urban roadway projects. Project involved construction of 7.8-miles of heavy rail transit system.

- **East-West Heavy Rail Transit System (Mashad to Saraks), Ministry of Road and Urban Development, Iran** - Office Engineer/Construction Engineer for Segment 1 of this project. Tasks included: ensuring overall construction was executed in accordance within applicable specifications, drawings, codes, standards and to the requirements of the Contract, including: management and oversight of all track work construction, oversight of procurement of all rail, clips, special turnouts, switches etc., managed construction of all plinths, railroad tie, ballast and direct fixation of track work, evaluation of construction costs and schedules, review and responded to contractor submittals and requests for information, as well as other construction observations and reporting, preparation of contract documents, technical specifications, design report and drawing, quantity take-offs and preparation of construction cost estimates.

- **East-West Heavy Rail Transit System (Mashad to Saraks), Ministry of Road and Urban Development, Iran** - Resident Engineer for Segment 5 of this project. Responsible for the following tasks: Design and analysis of temporary tunnel linings (including lattice girders, canopy tubes and steel sets in combination with plain shotcrete and reinforced shotcrete linings, assisted in design of final lining of tunnels in rock and soft ground, oversee cut and cover tunnels and earth retaining structures, Provided support in design of tunnel segmental lining, design of geotechnical instrumentation, building and structure damage assessment. In addition, he performed construction observations and reporting, performed drainage-related analyses, design and report preparation for tunnel related facilities, provided support in research and selection of TBM subcontractor.

- **120 – Kilometer two-way state highway in Khorasan Province, The Ministry of Road and Urban Development, Iran -** Project Manager responsible for alignment and profile, geometric, drainage, development of plans and construction estimates. Provided assistance in creation and submission of technical reports, specifications and calculations. Assisted with the development of specifications and cost. Developed design plans, including horizontal & vertical alignments, drainage plans, cross-sections, construction staging/traffic control plans, signing & pavement marking plans, and attend contractor progress meetings, responded to daily requests for information and contractor submittals and evaluated field changes.

- **8.7-mile extension of heavy rail transit from SFO to Millbrae Station Design-Build Project (BART)**- Quality Control/Project Engineer responsible for ensuring overall construction was executed in accordance with specifications, drawings, codes, and standards of the Contract. Participated in regular on-site contractor progress meetings and coordination meetings. Ensured work and quality related inspections were carried out in accordance with approved Inspection and Test Plans. Provided technical review of construction documentation submitted by the Contractor. Managed site safety rules for the defined plant area, responsible for the EPC Contractor scope executed, including interfaces and safety requirements, ensured accurate progress reporting of physical scope, daily progress reports and time sheets.

- **Commercial/ Residential Civil Site Improvements, Sazeafarinan, Iran** - Project Manager served as the main point of contact between clients/contractors, architects, consultants, and suppliers. Monitored workflow of subcontractors and planning work schedule, responsible for overseeing underground activities, earth work, soil nailing and soldier piles. Conducted structural field investigations and analyzed possible failures of all types of structures and construction problems including residential, commercial and industrial properties. Created staging logistics, and phasing plan for projects. Submitted technical drawings and supervised work programs and samples for client. Delivering large multidisciplinary engineering projects through different procurement methods and design stages, prepared fee proposal with Director for submission to client, including resources and programs, responded to design queries during the construction phase, attend site meetings, assisted project management team on Contractor's activities which may have an effect on potential claims, Performed subcontractor billing reconciliation, Responded to requests for information, change orders and CCDs, Conducted field reviews and managed site safety.

WESLEY SENNETT, PE, Senior Engineer

Years of Experience: 10, with MGE: 10

Education
MS/2019/Civil Engineering/California State University, Sacramento
BS/2010/Civil Engineering/California State University, Chico

Professional Registration
2013/Civil Engineering/CA #82031, EXP. 3/31/2022

Key Qualifications
Mr. Sennett is a registered professional civil engineer with an emphasis on structural design. His recent project experience includes the structural design of bridges (reinforced, prestressed, and post-tensioned concrete) carrying vehicle and light rail loading, flood control and drainage stabilization structures, pedestrian bridges, retaining walls (cantilever, soil nail, and tieback), hydraulic structures, culverts (reinforced concrete boxes and steel multi-plate arches), reinforced concrete cut and cover tunnels, and performing bridge load ratings.

Relevant Projects

- **Panther Creek Road Storm Damage Remediation Project, USDA Forest Service, El Dorado National Forest** – Structural design and preparation of quantities for structures associated with the project that involves the preliminary engineering and preparation of FHA, Federal Lands Highway Damage Survey Forms (DSR's) for 7 storm damage sites caused by heavy rains in early 2017 along Panther Creek Road.
- **Aquatic Organism Passages, USFS, Plumas National Forest** - Responsible for the structural design of creek crossing structures for various sites. New crossings enable accessibility to aquatic organisms for passage to upstream habitats.
- **Bridge Preventative Maintenance Program (BPMP) Projects, City of Stockton** - Project engineer to perform structural inspections to assess the condition of six bridges that qualify for preventative maintenance under the BPMP program. Responsibilities for each bridge condition inspection include: confirmation that the programmed maintenance treatment is appropriate, additional recommendations for BPMP reimbursable work, and preparation of project plans, specifications, and estimates (PS&E) for the required work. Work scope also includes providing bidding and construction support.
- **Bridge Preventative Maintenance Projects, Tuolumne County, CA** - Responsible for condition assessment of 11 bridges. Responsibilities for each bridge included: confirmation of programmed maintenance treatment, maintenance recommendations, preparation of project plans, and construction support.
- **Bridge Load Ratings, USFS, Various National Forests, CA** –Senior engineer for preparation of load rating calculations for several bridges under 3 separate Task Orders for 52 (total) bridges. The load ratings were prepared in accordance with current AASHTO requirements for design vehicles at inventory and operating levels, as well as for State Legal Loads.
- **North Round Valley Road Bridge over Pine Creek, Inyo County HBP Project –** Performed preliminary inspection and structural evaluation of the bridge. The 24-foot long, single-span, cast-in-place reinforced concrete bridge suffered extreme scour, as a result of the scour and unusually high flows from 2017 storms the south abutment failed and approximately 50-feet of the south approach roadway collapsed into the creek.
- **Wilson Creek Crossing Multi-Plate Arch Culvert Fish Passage, USDA Forest Service** - Responsible for the structural design associated with the removal of a 7' diameter x 110' corrugated metal pipe culvert and associated reinforced concrete headwalls and wingwalls, and the construction of a 19'-0" x 8'-3" x 96'-6" steel multi-plate arch culvert supported on reinforced concrete footings and stemwalls. Also provided design support during construction including review of shop drawings.
- **Bollea Road Bridge Emergency Repair, San Joaquin County** – Responsible for design and detailing of a concrete gravity wall to support the existing bridge south abutment in place. The bridge's south abutment was severely scoured and failed during a 2017 winter storm event.

- **Camp 2 Bridge Replacement, El Dorado Irrigation District** – Responsible for the design of a rock anchored, reinforced concrete, buttressed and backfilled retaining wall structure with a cantilevered roadway section to replace a structurally deficient timber bridge that crossed a steep exposed granite outcropping. The project involved construction of a reinforced concrete buttress wall structure, rock scaling to remove blocks of rock, rock pinning of the perched blocks above the wall, and installation of wire mesh rock net drapery. Also responsible for providing engineering support to the District during construction.

- **Ridge Road Rehabilitation, Sierra County** – Responsible for the preparation of roadway alignment and cross sections plans, design of a cantilevered slab and headwall associated with an existing culvert, and preparation of quantities for the project that involves the rehabilitation of 2.6 miles of Ridge Road. Project included recycling existing asphalt pavement in place with an AC overlay, adding shoulders, construction of retaining walls, new MBGR, concrete headwalls at an existing culvert, and new cross culverts.

- **Site 18A Culvert Replacement Project, Sacramento Area Flood Control Agency (SAFCA)** - Structural engineering design for replacement of a 30-inch diameter reinforced concrete pipe culvert, which is a fish passage barrier. The culvert was replaced with a larger arch culvert that facilitated drainage and fish passage.

- **Muir Mill Road Bridge Replacement at Baechtel Creek, Mendocino County HBP Project** – Responsible for the structural design of this single-span cast-in-place, reinforced concrete box girder bridge.

- **Jalama Road Slide Repair, Santa Barbara County** – Responsible for the structural design of the hydraulic inlet and outlet structures and associated retaining walls. Also responsible for preparation of structural quantity calculations in support of cost estimates.

- **Algerine Wards Ferry crossing Blanket Creek Bridge Replacement, Tuolumne County** – Responsible for the bridge and approach roadway design associated with the replacement of the 19-foot-wide single-span structure. Based upon bridge soffit clearance requirements, a CIP reinforced concrete slab bridge with a length of 40-feet has been determined to be required in order to satisfy hydraulic and soffit clearance requirements.

- **Forebay Dam Modification Project, El Dorado County Irrigation District** - Associate Engineer for condition inspection and bridge inspection report, load rating analysis and report, oversized load capacity analysis and report, and engineering support during construction.

- **Snake Lake Road Bridge Replacement at Spanish Creek, Plumas County HBP Project** – Responsible for the structural design of the replacement structure which consists of a single-span cast-in-place, prestressed concrete box girder superstructure the existing alignment, supported on spread footings.

- **Old Fibreboard Road Bridge Replacement at Little Truckee River, Sierra County** – Bridge engineer responsible for the design of this single-span cast-in-place, prestressed concrete box girder superstructure supported on CIDH concrete piles.

- **Rodeo Valley Trail Improvements, Marin Headlands, Golden Gate National Recreation Area, National Parks Service, Marin County** – Design engineer responsible for the structural design of two new trail bridges. The Smith Bridge is a single-span 60-ft long prefabricated steel truss structure with timber decking. The Capehart Bridge is comprised of three 60-ft spans of prefabricated steel truss with timber decking with timber framed boardwalk approaches.

- **Upper Sand Creek Basin, Contra Costa County On-Call Structural Engineering Contract** - Assistant engineer responsible for the structural design of the inlet structure and stilling basin. Inlet structure consists of modifications to the existing reinforced concrete structure as well as the extension of the structure with a reinforced concrete "U" structure. The stilling basin is comprised of graded rock slope protection contained within two reinforced concrete cantilever retaining walls.

- **Yerba Buena Island (YBI) West-Side Bridges, San Francisco County Transportation Authority** – Project Engineer responsible for the design and preparation of plans, specifications, and estimates of the retaining walls associated with the Yerba Buena Island I-80 Interchange Improvement Project. Retaining wall types include: a vertically supported tieback wall with tiebacks up to 120-ft in length using top-down construction, reinforced concrete cantilever retaining wall, and a cast-in-place soldier pile wall supported on cast-in-drilled-hole concrete piles.