I ROLL CALL – Directors Atwal, Brown, Lofton, Ritchie, Vasquez

II CONSENT AGENDA: Matters listed are considered to be routine and can be enacted by one motion.

   Approve minutes of February 7, 2017.

III ACTION ITEMS

   Approve Amendment No. 21 in the amount of $598,868 to agreement with GEI for environmental services related to Goldfields 200-year Project and authorize Executive Director to execute.

IV BOARD AND STAFF MEMBERS’ REPORT

V CLOSED SESSION

   Conference with Real Property Negotiators pursuant to Government Code §54956.8 - Negotiating Parties: TRLIA/Kelly Pope/Paul Brunner/Brenda Schimpf. Negotiation: Price and terms of payment for the following properties:

   A) APN 018-180-072 and 073/Sanders
   B) APN 018-180-074/Clift
   C) APN 018-180-070 and 079/Ludwick
   D) APN 018-180-066 and 078/Gallier
   E) APN 018-170-002/Robinson
   F) APN 017-170-012 and 016/Fahy
   G) APN 017-170-014/Precast Concrete
   H) APN 018-180-080 and 082/Wilbur
   I) APN 018-150-035/Barker

VI Adjourn

The complete agenda, including backup material, is available at the Yuba County Government Center, 915 8th Street, Suite 109, the County Library at 303 Second Street, Marysville, and www.trlia.org. Any disclosable public record related to an open session item on the agenda and distributed to all or a majority of the Board of Directors less than 72 hours prior to the meeting are available for public inspection at Suite 109 during normal business hours.

In compliance with the Americans with Disabilities Act, the meeting room is wheelchair accessible and disabled parking is available. If you have a disability and need disability-related modifications or accommodations to participate in this meeting, please contact the Clerk of the Board's office at (530) 749-7510 or (530) 749-7353 (fax). Requests must be made one full business day before the start of the meeting.
Call to order 3:30 p.m. with a quorum being present as follows: Directors Rick Brown, Doug Lofton, Edward Ritchie, and Andy Vasquez. Director Sarbdeep Atwal absent. Also present were Executive Director Paul Brunner, Counsel Andrea Clark, and Secretary/Clerk of the Board of Supervisors Donna Stottlemeyer. Chair Brown presided.


II PUBLIC COMMUNICATIONS: None.

III CONSENT AGENDA: Matters listed are considered to be routine and can be enacted by one motion.

MOTION: Move to approve

MOVED: Andy Vasquez
SECOND: Edward Ritchie

AYES: Rick Brown, Doug Lofton, Edward Ritchie, Andy Vasquez
NOES: None
ABSTAIN: None
ABSENT: Sarbdeep Atwal

A. Approve minutes of the meeting of January 17, 2017. Approved.

Director Atwal joined the meeting at 3:32 p.m.

IV CLOSED SESSION: The Board retired into closed session at 3:33 p.m. and returned at 4:04 p.m. with all Board members present except Director Vasquez.

Existing litigation pursuant to Government Code §54956.9(d)(1) Conference with Counsel – A. Teichert & Son Inc. vs. TRLIA/TRLIA Board of Directors Yuba County Superior Court No. CVPT 15-0000922 By unanimous vote approved settlement agreement and authorized Executive Director to execute.

V. ACTION ITEMS

A. Approve Amendment No. 14 to the agreement with BRI Consultants adding right-of-way consulting services for 200-year Urban Flood Risk Reduction Goldfields Project and authorize Executive Director to execute.

Executive Director Paul Brunner recapped the agreement for property acquisition, time frames, and responded to inquiries.

MOTION: Move to approve

MOVED: Sarbdeep Atwal
SECOND: Doug Lofton

AYES: Sarbdeep Atwal, Rick Brown, Doug Lofton, Edward Ritchie
NOES: None
ABSTAIN: None
ABSENT: Andy Vasquez

VI. BOARD AND STAFF MEMBER REPORTS

Director Atwal left the meeting at 4:13 p.m. and returned at 4:19 p.m.
Executive Director Paul Brunner:
- Department of Water Resources correspondence regarding Yuba Goldfields 200 year project funding
- Central Valley Flood Protection Plan Update Public Hearing February 9 at 5 p.m. in Yuba Board Chambers
- Approval received for cut-off wall project for Western Pacific Interceptor Canal

VII. **ADJOURN:** 4:27 p.m.

ATTEST: DONNA STOTTLEMEYER
CLERK OF THE BOARD OF SUPERVISORS
AND SECRETARY OF THE PUBLIC AUTHORITY

Approved: ___________________
February 28, 2017

TO: Three Rivers Levee Improvement Authority Board
FROM: Paul Brunner, Executive Director
       Larry Dacus, Design Manager
SUBJECT: Approve Amendment 21 to GEI Contract for Environmental Services for the Goldfields 200-Year Project

Recommended Action:
Approve Amendment 21 for $598,868 to the existing contract with GEI and authorize the executive director to sign and execute the contract amendment once General Council has reviewed and approved.

Discussion: TRLIA will soon enter into a funding agreement with the California Department of Water Resources (DWR) to cost share in the design and environmental permitting of the Goldfields 200-Year Project. This project will be part of the DWR Urban Flood Risk Reduction (UFRR) Program with a purpose to alter the State Plan of Flood Control (SPFC) and correct the deteriorating conditions at the end of the SPFC to ensure 200-year protection to the urban areas of Reclamation District 784. One of the first tasks initiate is the preparation of California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documents. The staff at GEI have been involved in the preparation of other environmental documents for TRLIA pertaining to the Goldfields and have expertise in preparing CEQA and NEPA documents.

The environmental work items are summarized below:

GEI Environmental Project Management: GEI will provide management to its staff during preparation of the environmental documents and coordinate with TRLIA and other TRLIA consultants during preparation of the environmental documents. The estimated cost for this task is $57,360.

Prepare Supplemental Environmental Impact Report (EIR): GEI will prepare a Supplemental EIR. An EIR was prepared during the Goldfields 200-Year Protection Project Feasibility Study. Due to an environmental challenge, the selected project from the Feasibility Study was modified to reduce impacts and a Supplemental EIR is now required. The estimated cost for this effort is $153,678.

Prepare Environmental Impact Statement (EIS): The United States Army Corps of Engineers (USACE) will require NEPA clearance in order to issue a Section 408 Permit to alter the existing project. NEPA requires that an EIS be prepared to describe the environmental impacts of the proposed action. GEI will prepare the required NEPA documentation. The estimated cost for this effort is $262,586.
Prepare Cultural Resources Technical Report and Support Native American Consultation: GEI will provide Native American Consultation and prepare required documents. Native American Consultation has become an important part of any project. This task will ensure that all rules and guidelines are followed and that a plan is in place to ensure either avoidance or minimal impacts to any existing Native American artifacts and to ensure that consultation is completed with all impacted tribes. The cost for these efforts was included in GEI Amendment 18 and no additional addition to the budget is required here.

Permitting: GEI will conduct a formal wetland delineation, prepare permit applications for compliance with Clean Water Act Sections 404 and 401 and Fish and Game Code Section 1602, and prepare a Biological Assessment to evaluate effects on Federally listed species. GEI also will facilitate fulfillment of mitigation requirements for unavoidable adverse effects on waters of the United States and Federally listed species. The estimated cost for this effort is $117,984.

Coordinate with Feather River Air Quality Management District (FRAQMD): GEI will develop and submit technical information to the FRAQMD to obtain an authority to construct the Goldfields 200-Year Project. The estimated cost for this effort is $7,260.

Amendment 21, attached, is authorization to accomplish the efforts described above. It would increase GEI’s current contract by $598,868 for a total contract of $24,259,383. Greater detail on efforts and costs is described in Exhibit A of the attached Amendment 21.

Fiscal Impact:
The contract amendment would increase the existing contract by $598,868 for services on a time-and-expenses basis, to a maximum amount not exceeding a total contract of $24,259,383 for Environmental Services without prior authorization by TRLIA. GEI is using 2014 GEI rates; with 2013 GEI rates for very senior staff, for next 2 years to minimize costs. GEI will also have zero mark up on any subs with this amendment. These efforts will be covered under a soon to be signed UFRR Funding Agreement and will be cost shared with the State. The State will fund 85% of these efforts.

ATTACHMENT
1. Amendment No. 21
2. Exhibit A to Amendment No. 21
AMENDMENT NO. 21
AGREEMENT FOR PROFESSIONAL SERVICES
FOR
PHASE 4 FEATHER RIVER LEVEE REPAIRS
BETWEEN
THREE RIVERS LEVEE IMPROVEMENT AUTHORITY AND
BOOKMAN-EDMONSTON/GEI CONSULTANTS

THIS 21st AMENDMENT TO AGREEMENT is made effective _________________,
by and between Three Rivers Levee Improvement Authority ("TRLIA") and Bookman-
Edmonston/GEI Consultants, a division of GEI Consultants, Inc. ("Contractor"), who
agree as follows:

1. **Recitals.** This Amendment is made with reference to the following background
recitals:

1.1. Effective December 13, 2005, the parties entered into the Agreement for
Professional Services relating to TRLIA’s Phase 4 Feather River Levee
project with a contract value of $1,439,400.

1.2. Effective April 25, 2006, the parties entered into Amendment No. 1 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $3,082,240 for a total contract
value of $4,521,640.

1.3. Effective June 27, 2006, the parties entered into Amendment No. 2 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $32,700 for a total contract value
of $4,554,340.

1.4. Effective October 30, 2006, the parties entered into Amendment No. 3 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $262,500 for a total contract
value of $4,816,840.

1.5. Effective January 16, 2007, the parties entered into Amendment No. 4 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Levee Repair design in the amount of $115,000 for a total contract
value of $4,931,840.

1.6. Effective April 3, 2007, the parties entered into Amendment No. 5 to the
Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Setback Levee design in the amount of $5,860,244 for a total contract
value of $10,792,084.

1.7. Effective September 18, 2007, the parties entered into Amendment No. 6 to
the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather
River Setback Levee design in the amount of $1,963,660 for a total contract
value of $12,755,744.
1.8. Effective April 15, 2008, the parties entered into Amendment No. 7 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $636,300 for a total contract value of $13,392,044.

1.9. Effective June 17, 2008, the parties entered into Amendment No. 8 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $5,671,000 for a total contract value of $19,063,044.

1.10. Effective September 8, 2008, the parties entered into Amendment No. 9 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $358,200 for a total contract value of $19,421,244.

1.11. Effective November 18, 2008, the parties entered into Amendment No. 10 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $536,764 for a total contract value of $19,958,008.

1.12. Effective July 9, 2009, the parties entered into Amendment No. 11 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $829,986 for a total contract value of $20,787,994.

1.13. Effective May 18, 2010, the parties entered into Amendment No. 12 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $860,948 for a total contract value of $21,648,942.

1.14. Effective May 17, 2011, the parties entered into Amendment No. 13 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $668,980 for a total contract value of $22,317,922 and to extend the contract termination date to December 31, 2013.

1.15. Effective December 18, 2012, the parties entered into Amendment No. 14 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Setback Levee design in the amount of $433,813 for a total contract value of $22,751,735.

1.16. Effective January 21, 2014, the parties entered into Amendment No. 15 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project to extend the contract termination date to December 31, 2014.

1.17. Effective February 17, 2015, the parties entered into Amendment No. 16 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project to extend the contract termination date to December 31, 2016.

1.18. Effective May 19, 2015, the parties entered into Amendment No. 17 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project in the amount of $311,270 for a total contract value of $23,063,005.
1.19. Effective November 17, 2015, the parties entered into Amendment No. 18 to the Agreement for Professional Services relating to the Feather River Levee Repair Project and Urban Levee Certification in the amount of $447,608 for a total contract value of $23,510,613.

1.20. Effective June 21, 2016, the parties entered into Amendment No. 19 to the Agreement for Professional Services relating to the Feather River Levee Repair Project and Urban Levee Certification in the amount of $149,902 for a total contract value of $23,660,515.

1.21. Effective September 20, 2016, the parties entered into Amendment No. 20 to the Agreement for Professional Services relating to TRLIA’s Phase 4 Feather River Levee Improvement Project to extend the contract termination date to December 31, 2018.

1.22. The parties now desire to amend the Professional Services Agreement to add additional tasks and increase the contract budget.

2. **Twenty First Amendment to Agreement.** The Professional Services Agreement is hereby amended as follows:

   2.1. The scope of services (Attachment A to the Agreement for Professional Services between TRLIA and B-E/GEI, dated December 13, 2005) is amended to expand the scope of work as described by letter dated February 17, 2017 (Exhibit A) to address additional tasks required to prepare environmental documents for the Goldfields 200-Year Project.

   2.2. The payment, budget, and not-to-exceed amounts (Professional Services Agreement Attachment B) are amended by the attached Exhibit A to include the additional amount of $598,868 for a total contract of $24,259,383.

3. **No Effect on Other Provisions.** Except for the amendments in Section 2, the remaining provisions of the Professional Services Agreement shall be unaffected and remain in full force and effect.
IN WITNESS WHEREOF, the parties hereto have executed this Agreement on

THREE RIVERS LEVEE IMPROVEMENT
AUTHORITY OF YUBA COUNTY

BOOKMAN-EDMONSTON,
A DIVISION OF GEI
CONSULTANTS, INC.

Paul G. Brunner
Executive Director

Stephen Verigin
Senior Vice President

ATTEST:
DONNA STOTTLEMEYER
SECRETARY, THREE RIVERS

APPROVED AS TO FORM:
ANDREA P. CLARK
GENERAL COUNSEL, TRLIA

Andrea P. Clark
February 17, 2017

Mr. Paul Brunner, Executive Director
Three Rivers Levee Improvement Authority
1114 Yuba Street, Suite 218
Marysville, CA 95901

Re: Agreement for Professional Services on Three Rivers Levee Improvement Authority’s Phase 4 Feather River Levee Repair Project – Request for Amendment No. 21, Yuba Goldfields 200-Year Levee Project Environmental Documentation and Permitting

Dear Mr. Brunner:

In follow up to recent conversations between Phil Dunn and yourself, the purpose of this letter is to present a proposed scope of work and cost estimate to provide environmental documentation and permitting support for the Three Rivers Levee Improvement Authority (TRLIA) Yuba Goldfields 200-Year Flood Protection Project. GEI understands TRLIA proposes to construct a new levee, based on modification of Alternative 4 evaluated in the 2015 Draft Environmental Impact Report (DEIR).

The required environmental tasks will be managed by Anne King, under Phil Dunn’s supervision. GEI has estimated the work and budget required through December 2018, which is the target for completing all environmental documentation and obtaining all necessary approvals and permits. The primary products are a Supplemental Environmental Impact Report (SEIR) that addresses Modified Alternative 4 for California Environmental Quality Act (CEQA) compliance, and an Environmental Impact Statement (EIS) that addresses Modified Alternative 4 and the No-Action Alternative for National Environmental Policy Act (NEPA) compliance. TRLIA and the U.S. Army Corps of Engineers (USACE) would serve as the lead agencies under CEQA and NEPA, respectively.

GEI will complete the tasks described below to obtain the following environmental approvals and permits for an estimated cost of $598,868 (see Attachment 1):

- CEQA compliance
- NEPA compliance
- Clean Water Act (CWA) Section 404 and Section 401 compliance
- Federal Endangered Species Act (ESA) compliance
- California Endangered Species Act (CESA) compliance
- California Fish and Game Code Section 1600 compliance
- National Historic Preservation Act (NHPA) Section 106 and Assembly Bill (AB) 52 compliance
- Feather River Air Quality Management District (FRAQMD) Authority to Construct
The following approvals and permits are *not* part of this scope of services and will be obtained by TRLIA and other contractors, or may not be necessary (i.e., Clean Air Act Conformity Determination):

- Central Valley Flood Protection Board (CVFPB) approval
- U.S. Army Corps of Engineers (USACE) Section 408 compliance
- CWA Section 402 National Pollution Discharge Elimination System compliance
- Reclamation District 784 Encroachment Permit
- Clean Air Act Conformity Determination
- Yuba County Grading Permit

**Task 1: Project Management**

GEI will manage the environmental tasks described in this scope of work and maintain close communication with the TRLIA project team.

- Provide general project management, coordination, and administration.
- Attend meetings and conference calls with TRLIA project team.
- Provide deliverable quality assurance/quality control (QA/QC).
- Prepare, update, and manage environmental task schedule and updates.
- Provide management/input on budget and environmental schedule.

**Deliverables and Meetings:**

- Draft and updated environmental schedule (electronic)
- Participation in bi-weekly conference calls, and attendance by up to two GEI team members at up to eight quarterly project status meetings

**Task 2: Prepare Supplemental Environmental Impact Report**

GEI will prepare a Supplemental Environmental Impact Report (SEIR) that evaluates the Modified Alternative 4 levee alignment, and will complete additional tasks described below to support certification of the SEIR.

**Project Description and Notice of Preparation**

- Prepare draft and final project description with input from the TRLIA project team.
- Prepare draft and final Notice of Preparation (NOP); file at State Clearinghouse and distribute for 30-day public review. (The purpose of the NOP will be to notify the public of the SEIR but also to include a section that eliminates any resource areas already appropriately covered in the previous project EIR and/or that would clearly not have significant impacts with project implementation.)
- Prepare draft and final newspaper notice and publish in Appeal Democrat.
- Hold internal kick-off meeting for EIR and EIS preparation.

**Deliverables and Meetings:**

- Attendance by up to two GEI team members at TRLIA project kick-off meeting
- Draft and final project description (electronic)
- Draft and final NOP (electronic and up to 15 hard copies)
- Draft and final newspaper notice (electronic)
Assumptions:
- GEI will pay newspaper publication fee and receive reimbursement from TRLIA.
- TRLIA will file NOP with the Yuba County Clerk.

Draft Supplemental Environmental Impact Report
- Conduct air quality modeling to evaluate construction- and operations-related air pollutant and greenhouse gas emissions of constructing Modified Alternative 4.
- Update biological resources database searches and conduct biological survey of the Modified Alternative 4 levee alignment.
- Prepare administrative Draft SEIR.
- Revise administrative Draft SEIR and prepare screencheck Draft SEIR.
- Incorporate final revisions and prepare and circulate the public Draft SEIR for 45-day public review.
- Prepare draft and final Notice of Availability and publish in Appeal Democrat.
- Prepare draft and final Notice of Completion; file at State Clearinghouse.

Deliverables:
- Administrative Draft SEIR (electronic)
- Screencheck Draft SEIR (electronic)
- Public Draft SEIR (electronic and up to 20 hard copies)
- Draft and Final Notice of Availability (electronic)
- Draft and Final Notice of Completion (electronic)

Assumptions:
- Air quality model inputs (material volumes, general construction methods, schedule, expected construction equipment, long-term operations and maintenance) will be provided by TRLIA’s design consultant.
- GEI will pay newspaper publication fee and CDFW CEQA filing fee and receive reimbursement from TRLIA.
- TRLIA will file NOC with the Yuba County Clerk.

Final Supplemental Environmental Impact Report
- Prepare Response to Public Comments matrix and attend meeting with TRLIA project team to review approach to responses.
- Prepare administrative Final SEIR (Response to Public Comments).
- Revise administrative Final SEIR and prepare screencheck Final SEIR.
- Incorporate final revisions and prepare Final SEIR.
- Circulate Final SEIR to commenting agencies for 10-day review.

Deliverables and Meetings:
- Response to Public Comments matrix (electronic) and attendance by up to two GEI team members at response review meeting.
- Administrative Final EIR (Response to Public Comments) (electronic)
- Screencheck Final EIR (electronic)
- Final EIR (electronic and up to 20 hard copies)
Supplemental Mitigation Monitoring and Reporting Plan (SMMRP); Review of Staff Report, Findings, and Statement of Overriding Considerations (SOC); Notice of Determination (NOD)
- Prepare draft and final SMMRP.
- Review draft documents for EIR certification (Findings, SOC, TRLIA staff report and resolution).
- Prepare draft and final Notice of Determination and file at State Clearinghouse.

**Deliverables and Meetings:**
- Draft and final SMMRP (electronic)
- Draft and final NOD (electronic)
- Attendance by up to two GEI team members at EIR certification meeting

**Assumptions:**
- TRLIA will file NOD with the Yuba County Clerk
- TRLIA Legal Counsel will prepare Findings, SOC, and TRLIA staff report and resolutions; and attend EIR certification Board meeting

**Task 3: Prepare Environmental Impact Statement**
GEI will prepare an EIS to satisfy NEPA compliance for the Federal actions and will complete additional tasks described below to support the NEPA process.

- Notice of Intent and Project Scoping
- Prepare draft and final Notice of Intent (NOI)
- Prepare presentation materials with MBK Engineers and attend two public scoping meetings in Marysville (assumed 3 p.m. and 6 p.m. on same day).

**Deliverables and Meetings:**
- Draft and Final NOI (electronic and up to 15 hard copies)
- Draft and final presentation materials for public scoping meetings (electronic and up to 20 hard copies)
- Attendance by up to two GEI team members at public scoping meetings described above.

**Assumptions:**
- A scoping report and/or responses to comments will not be required by USACE.

**Draft Environmental Impact Statement**
- Prepare three administrative drafts of the EIS and make revisions in response to each review by USACE, Sacramento District.
- Prepare response to comments only from USACE, South Pacific Division.
- Prepare screencheck Draft EIS.
- Prepare public Draft EIS.
- Prepare presentation materials and attend public meeting on DEIS.
Deliverables and Meetings:
- Administrative Draft EIS #1 (electronic)
- Administrative Draft EIS #2 (electronic)
- Administrative Draft EIS #3 (electronic)
- Response to comments on Administrative Draft EIS #3 (electronic)
- Screencheck draft EIS (electronic)
- Public Draft EIS (electronic)
- Presentation materials for public meeting on DEIS (electronic)
- Attendance by up to two GEI team members at public meeting on DEIS

Assumptions:
- The EIS will evaluate a No-Action Alternative and the Preferred Alternative (Modified Alternative 4 in SEIR).
- For environmental resources also addressed under CEQA, analysis of the No-Action Alternative will be based on the 2015 DEIR and analysis of the Preferred Alternative will be based on the SEIR or adapted from the 2015 DEIR, depending on the resource area.

Final Environmental Impact Statement
- Prepare Response to Public Comments Matrix and attend meeting with USACE to review approach to responses.
- Prepare three administrative drafts of the Final EIS and make revisions in response to each review by USACE, Sacramento District.
- Prepare response to comments from USACE, South Pacific Division.
- Prepare screencheck Final EIS.
- Prepare Final EIS.

Deliverables and Meetings:
- Response to Public Comment Matrix (electronic) and attendance by up to two GEI team members at response review meeting
- Administrative Final EIS #1 (electronic)
- Administrative Final EIS #2 (electronic)
- Administrative Final EIS #3 (electronic)
- Response to comments on Administrative Final EIS #3 (electronic)
- Screencheck Draft EIS (electronic)
- Public Draft EIS (electronic)

Task 4: Prepare Cultural Resources Technical Report and Support Native American Consultation (costs already covered under separate Amendment No. 18)

GEI will conduct background research and field investigations and prepare a Cultural Resources Technical Report. GEI also will support TRLIA with Native American consultation, in compliance with AB 52. The subtasks described below represent the full scope of cultural resource services anticipated to be required at this time. All of these items, except those related to built-environment resources, are covered in the previously executed amendment for archaeological services (Amendment No. 18). Although the built-environment survey and evaluation are new, Amendment No. 18 included a ground-
penetrating radar study that is now expected to be unnecessary; therefore, Attachment 1 herein shows no cost for Task 4 as all work identified below will be undertaken within the scope and budget allocated for Amendment 18. Work items are listed below only to show the entirety of the environmental work to ultimately be performed for Modified Alternative 4.

**Cultural Resources Investigations**
- Conduct records search at the Northeast Information Center of the California Historical Resources Information System.
- Request a Sacred Lands File search and a contact list from the Native American Heritage Commission (NAHC).
- Coordinate with USACE to determine the Area of Potential Effects (APE).
- Conduct a pedestrian archaeological survey of a 200-foot corridor along the levee alignment, all borrow areas, and all staging areas.
- Conduct a desktop geoarchaeological study.
- Conduct a geoarchaeological field investigation.
- Conduct a field survey of built-environment parcels within the APE.
- Document built-environment resources in the APE on Department of Parks and Recreation forms with evaluations under National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR).

**Deliverables and Meetings:**
- Attendance by one GEI cultural resources specialist at up to eight TRL1A project team meetings.
- Draft and final APE map (electronic)

**Assumptions:**
- USACE will concur that the APE does not include the area between the Yuba River and the new levee; no resources related to mining activities in the Yuba Goldfields will require consideration.
- The archaeological survey will include up to 270 acres.
- The geoarchaeological field investigation can be completed by three people in 3 days.
- The built-environment field survey will include up to 5 parcels with buildings and associated structures and the Yuba River South Levee, where the new levee would tie in; only the levee will meet criteria for listing in the NRHP and CRHR.

**Cultural Resources Technical Inventory Report**
- Prepare Cultural Resources Technical Inventory Report to support compliance with Section 106 of the NHPA and USACE consultation with the State Historic Preservation Officer.

**Deliverables and Meetings:**
- Administrative draft, draft, and final Cultural Resources Technical Inventory Report (electronic)
Assumptions:
- No archaeological or Tribal Cultural resources will be identified in the APE, and no archaeological resource evaluation, mitigation, or data recovery will be required.
- A finding of No Adverse Effect will be possible with regards to the project effects to the Yuba River South Levee.
- Preparation of agreement documents, including Programmatic Agreements, Historic Properties Management Plan, Archaeological Monitoring Plan, Tribal Monitoring Plan, Historic Properties Treatment Plans, and any archaeological evaluation or data recovery reports are excluded.

Native American Consultation and Coordination
- Prepare draft letters to Native American Tribes on list provided by the NAHC, describing the proposed project and inviting the Tribes to provide input.
- Facilitate additional Native American consultation.
- Accompany Native Americans that request to conduct a field visit.
- Retain services of Native American surveyors/monitors to conduct a Native American survey and to monitor the geoarchaeological field investigation, if requested.

Deliverables and Meetings:
- Draft letters to Native American Tribes (electronic)
- Attendance by one GEI cultural resources specialist at up to two TRLIA meetings with Native American representatives

Assumptions:
- Native American survey/monitoring will be limited to up to 10 person days and up to 10 hours per day.

Task 5: Permitting
GEI will conduct a formal wetland delineation, prepare permit applications for compliance with CWA Sections 404 and 401 and Fish and Game Code Section 1602, and prepare a Biological Assessment to evaluate effects on Federally listed species. GEI also will facilitate fulfillment of mitigation requirements for unavoidable adverse effects on waters of the United States and Federally listed species.

Wetland Delineation
- Review existing wetland data, including National Wetland Inventory maps, Natural Resources Conservation Service soil survey information, U.S. Geological Survey 7.5-minute series topographic maps, and aerial photographs.
- Conduct field delineation of jurisdictional waters of the United States and waters of the state, including wetlands.
- Prepare wetland map showing the exact extent and location of all potentially jurisdictional waters of the United States, including wetlands, on the project site.
Deliverables and Meetings:
- Draft and final wetland map
- Draft and final Preliminary Delineation of Waters of the United States (electronic)
- Attendance by one GEI regulatory specialist at USACE field verification meeting

Assumptions:
- Field delineation can be completed in 1 day by two biologists.

Clean Water Act Section 404 Permit Application
- Prepare presentation materials and attend USACE pre-application meeting.
- Prepare Individual Permit application documents, including (in addition to documents described elsewhere in this scope of services) USACE ENG Form 4345 and impact maps, CWA Section 404(b)(1) Alternatives Analysis, and compensatory mitigation plan/statement.
- Assist USACE with development of and responses to the Public Notice.
- Facilitate purchase of mitigation bank credits, including USACE approval and mitigation bank coordination.

Deliverables and Meetings:
- Meeting materials (electronic) and attendance by up to two GEI regulatory staff at USACE pre-application meeting
- Draft and final permit application (electronic)

Assumptions:
- Up to four alternatives will be evaluated in the 404(b)(1) Alternatives Analysis; these will include the No-Action Alternative and Preferred Alternative evaluated in the EIS and potentially two of the alternatives evaluated in the 2015 DEIR.
- TRL1A will fulfill compensatory mitigation requirements through purchase of mitigation bank credits.

Clean Water Act Section 401 Water Quality Certification Application
- Prepare Water Quality Certification application.

Deliverables and Meetings:
- Draft and final permit application (electronic)

Assumptions:
- GEI will pay RWQCB filing fee and receive reimbursement from TRL1A.

Fish and Game Code Section 1602 Streambed Alteration Notification
- Prepare Streambed Alteration Notification.

Deliverables and Meetings:
- Draft and final notification (electronic)

Assumptions:
- GEI will pay CDFW filing fee and receive reimbursement from TRL1A.
Biological Assessment
- Prepare Biological Assessment that evaluates potential effects on giant garter snake.
- Support mitigation implementation by facilitating USFWS approval and purchase of mitigation bank credits.

Deliverables:
- Administrative draft, draft, and final Biological Assessment (electronic)

Assumptions:
- No wetlands suitable for listed vernal pool species will be affected.
- No elderberry shrubs will be affected.
- No focused surveys will be required by USFWS.
- NMFS will not require a Biological Assessment and no consultation with NMFS is required.
- Take authorization for operations and maintenance activities will not be required.
- TRLIA will fulfill all compensatory mitigation requirements by purchasing mitigation bank credits.
- Take authorization for State-listed species will not be required.

Task 6: Coordinate with Feather River Air Quality Management District
GEI will develop and submit technical information to the FRAQMD to obtain an authority to construct the proposed project.
- Coordinate with FRAQMD staff regarding estimated air quality and greenhouse gas emissions and associated mitigation fee requirements.
- Prepare memorandum quantifying estimated emissions and associated mitigation fees.

Deliverables and Meetings:
- Draft and final mitigation fee memorandum (electronic)

Assumptions:
- Mitigation fees will be based on emissions estimates calculated for the SEIR and will not require additional air quality modeling.

GEI will use 2013 rates for Grades 8-10 and 2014 rates for Grades 1-7 and administrative staff, with no further increase in 2018. In addition, GEI has reduced the mark-up on any subcontracts and other direct project expenses to 0% for this amendment. The GEI 2014 fee schedule, with noted adjustments, is included in Attachment 2.

The scope and budget contained herein represent our best estimate at this time to perform the activities discussed above. In the event that an unforeseen task not included in this scope of work exceeds the hours provided in the scope and budget, GEI will communicate the changes to TRLIA and develop a scope and budget for the additional work. With this said, we strive to conduct our work as efficiently as possible. We will manage our efforts and strive to keep actual costs under the approved budget.
We are pleased with the opportunity to continue working with you and your staff on this vitally important project. Please call me or Phil Dunn if you have any questions.

Sincerely,
GEI Consultants,

[Signature]

Dan Wanket, P.M.P.
Contract Manager

Attachments 1 and 2

CC: Ric Reinhardt and Larry Dacus (MBK Engineers)
Alberto Pujol, Phil Dunn, and Anne King (GEI Consultants)
Attachment 1
Cost Estimate Tables
Table 1
Three Rivers Levee Improvement Authority
GEI Cost Estimate - Amendment No. 21
2/17/2017

<table>
<thead>
<tr>
<th>Work Item</th>
<th>Estimated Costs</th>
<th>Total</th>
<th>Comments/Assumptions</th>
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<tbody>
<tr>
<td></td>
<td>GEI Costs (2013/2014 Fee Schedule¹)</td>
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<tr>
<td></td>
<td>Hours</td>
<td>Rate</td>
<td>Labor Cost</td>
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<td>Task 1: Project Management</td>
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<td>57,360</td>
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<tr>
<td>Task 2: Prepare Supplemental Environmental Impact Report</td>
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<td>3,570</td>
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<td>Task 5: Permitting</td>
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<td>Total Estimated Cost</td>
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Notes:
1. GEI Standard 2013 rates for Grades 8-10, GEI Standard 2014 rates for Grades 1-7 and administrative staff
2. ODC markup reduced to 0%
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<tr>
<th>Item</th>
<th>Project Director Gr 8</th>
<th>Project Manager Gr 6</th>
<th>Regulatory Specialist Gr 7</th>
<th>AQ/Noise Specialist Gr 8</th>
<th>Wetland Specialist Gr 6</th>
<th>Planner Gr 6</th>
<th>Planner Gr 4</th>
<th>AQ/Noise Specialist Gr 4</th>
<th>Biologist Gr 2</th>
<th>GIS Gr 4</th>
<th>Admin (WP, editing, AdmRc)</th>
<th>GEI Est. LOE</th>
<th>Estimated Cost</th>
<th>ODCs</th>
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<th>Comments</th>
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<td>$153,678</td>
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Attachment 2
GEI Fee Schedule
FEE SCHEDULE

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<tr>
<th>Personnel Category</th>
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<td>Staff Professional – Grade 1</td>
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<td>Staff Professional – Grade 2</td>
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<td>Project Professional – Grade 4</td>
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<td>Senior Professional – Grade 7</td>
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<td>Senior Consultant – Grade 9</td>
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<tr>
<td>Senior Principal – Grade 10</td>
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</tr>
<tr>
<td>Senior CADD Drafter and Designer</td>
<td>$122</td>
</tr>
<tr>
<td>CADD Drafter / Designer and Senior Technician</td>
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</tr>
<tr>
<td>Technician, Word Processor, Administrative Staff</td>
<td>$91</td>
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<tr>
<td>Office Aide</td>
<td>$71</td>
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</tbody>
</table>

These rates are billed for both regular and overtime hours in all categories. Rates will increase up to 5% annually, at GEI’s option, for all contracts that extend beyond twelve (12) months after the date of the contract. Rates for Deposition and Testimony are increased 1.5 times.

OTHER PROJECT COSTS

Subconsultants, Subcontractors and Other Project Expenses - All costs for subconsultants, subcontractors and other project expenses will be billed at cost plus 15% service charge. Examples of such expenses ordinarily charged to projects are subconsultants; subconsultants: chemical laboratory charges; rented or leased field and laboratory equipment; outside printing and reproduction; communications and mailing charges; reproduction expenses; shipping costs for samples and equipment; disposal of samples; rental vehicles; fares for travel on public carriers; special fees for insurance certificates, permits, licenses, etc.; fees for restoration of paving or land due to field exploration, etc.; state sales and use taxes and state taxes on GEI fees.

Billing Rates for Specialized Technical Computer Programs – Computer usage for specialized technical programs will be billed at a flat rate of $10.00 per hour in addition to the labor required to operate the computer.

Field and Laboratory Equipment Billing Rates – GEI-owned field and laboratory equipment such as pumps, sampling equipment, monitoring instrumentation, field density equipment, portable gas chromatographs, etc. will be billed at a daily, weekly, or monthly rate, as needed for the project. Expendable supplies are billed at a unit rate.

Transportation and Subsistence - Automobile expenses for GEI or employee owned cars will be charged at the rate per mile set by the Internal Revenue Service for tax purposes plus tolls and parking charges or at a day rate negotiated for each project. When required for a project, four-wheel drive vehicles owned by GEI or the employees will be billed at a daily rate appropriate for those vehicles. Per diem living costs for personnel on assignment away from their home office will be negotiated for each project.

PAYMENT TERMS

Invoices will be submitted monthly or upon completion of a specified scope of service, as described in the accompanying contract (proposal, project, or agreement document that is signed and dated by GEI and CLIENT).

Payment is due upon receipt of the invoice. Interest will accrue at the rate of 1% of the invoice amount per month, for amounts that remain unpaid more than 30 days after the invoice date. All payments will be made by either check or electronic transfer to the address specified by GEI and will include reference to GEI’s invoice number.

Standard Fee Schedule 2014