

**ADDENDUM No. 3 TO CONSULTANT AGREEMENT**

**Extra Work Authorization Form**

The consultant agreement dated June 15, 2026 for professional services between LUMOS & ASSOCIATES, INC., and  
City of Fort Bragg, CA for Newman Reservoir Booster Pump Station  
(project name)

is hereby amended as follows:  
See attached Change Order Request 3.

**COMPENSATION ARRANGEMENT**

- Time and materials payment per current fee schedule (attached) not to exceed \$14,600
- Lump sum payment \$20,700
- Other (specify) \_\_\_\_\_

Backcharge: Yes  No  To Whom: \_\_\_\_\_

Job No.: 11390.002 Task No./Description: Task 2.12, 2.13, 2.14, 2.15

ORIGINAL CONTRACT AMOUNT: \$198,600.00

TOTAL PREVIOUS ADDENDUMS: \$36,610.65

TOTAL THIS ADDENDUM: \$35,300.00

REVISED CONTRACT AMOUNT: \$270,510.65

All other terms and conditions remain unchanged.

**LUMOS & ASSOCIATES, INC.**

**CLIENT**

PRINT Aaron Brusatori, PE  
SIGN *Aaron Brusatori*  
TITLE Group Manager  
DATE June 15, 2026

PRINT \_\_\_\_\_  
SIGN \_\_\_\_\_  
TITLE \_\_\_\_\_  
DATE \_\_\_\_\_

**Copies to Client for signature; return one to Lumos & Associates, Inc.**

<b>Engineering</b>	<b>Per Hour</b>
Director	\$350
Group Manager / Senior Group Manager	330/340
Project / Senior Project Manager	280/300
Technical Lead / Senior Technical Lead	280/300
Staff / Project / Senior Hydrogeologist	225/235/255
Staff / Project / Senior Engineer	230/240/260
Project / Senior / Lead Project Coordinator	220/230/250
Project Designer I / II / III / IV / V	125/165/185/200/210
Structural Drafter I / II / III / IV / V	120/160/180/195/205
Hydrogeologist Tech I / II / III / IV / V	120/160/180/195/205
<b>Construction</b>	<b>Per Hour</b>
Director	\$350
Group Manager	330
Assistant / Project / Senior Project Manager	250/280/300
Project / Senior Geotechnical Engineer	240/255
Construction Services Supervisor / Engineer	205/220
Project / Senior Project Coordinator	220/230
Geotechnician	195
Inspector / Senior Inspector (includes nuclear gauge)	185/200
Construction Technician I / II / III / IV	150/160/170/180
Materials Technician I / II / III / IV (includes nuclear gauge)	120/150/160/170
<b>Surveying</b>	<b>Per Hour</b>
Director	\$350
Group Manager	330
Assistant / Project / Senior Project Manager	250/280/300
Associate / Staff / Project / Senior Surveyor	220/230/240/255
Project / Senior Project Coordinator	220/230
Photogrammetrist / Photogrammetry Manager	175/230
GIS Analyst	175
Surveying Technician I / II / III / IV / V	125/165/185/195/205
Party Chief / Sr. Party Chief	220/240
<b>Administrative &amp; Other Services</b>	<b>Per Hour</b>
Administrative Support	\$135
Copy & Print Services	Cost + 15%
Mileage (per mile)	0.90

- Fees for prevailing wage rate projects are available upon request or as required.
- Map filing, checking, consulting, and other fees paid on behalf of the client shall be billed at cost plus fifteen percent (15%).
- Overtime hours will be billed at 1.5 times the standard rate where applicable.
- Survey and Field crew billing rates include standard field survey equipment and truck up to 30 mile radius, after which mileage rates apply
- Fees for depositions and testimony will be billed at two (2) times the standard billing rates

**These rates apply to services rendered through December 31, 2026. Services provided after this date will be invoiced according to the Standard Fee Schedule in effect at that time.**

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Director	\$350
Group Manager / Senior Group Manager	330/340
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**El Dorado Hills**

3840 El Dorado Hills Boulevard, Suite 301  
El Dorado Hills, CA 95762  
916-980-8228

June 15, 2026

Chantell O'Neal  
Assistant Director; Engineering Division  
416 N Franklin Street  
Fort Bragg, CA 95437

Delivered Via Email: [coneal@fortbragg.com](mailto:coneal@fortbragg.com)

***Subject: Amendment Request 3 – Ft. Bragg Raw Water Line Replacement Project Realignment***

Dear Ms. O'Neal

Lumos & Associates, Inc. is pleased to provide you with this proposal for engineering and related services for the Newman Reservoir Pump Evaluations Project.

**Project Understanding**

The City of Fort Bragg (The City) is presently in the process of awarding the Construction contract for the Raw Water Line Replacement Project which replaces portions of the existing raw water line from the Newman Reservoir and Waterfall Gulch to the Water Treatment Plant (WTP). The original raw water design was prepared by Coleman Engineering and construction of the project was previously awarded to T&S Construction (T&S). During construction, The City retained Lumos to provide a redesign of the Newman reservoir pump station. The design was completed and delivered to the City in October 2025 to be used as an exhibit to a change order to the construction project. T&S was able to procure all of the 12" IPS HDPE DR-9 project pipe and installed approximately 2/3<sup>rd</sup>s of the proposed design. However, prior to completion, construction was halted and the project was ultimately rebid.

For the project, the City has determined that a portion of the uninstalled raw water line should be realigned from the original design to avoid impacts to a densely vegetated portion of property. The proposed alignment will follow an existing dirt trail through an adjacent property to the north to prevent unnecessary removal of native vegetation and trees. This realignment will require confirmation of survey records to ensure that the realignment is contained within the proposed properties without impact to adjacent properties.

In addition to the raw water realignment, it is understood that Waterworks Engineering prepared a drainage analysis to evaluate the sizing of the existing culverts along the proposed raw water alignment. It was determined that several culverts will need to be upsized. The increase in culvert size will require adjustments to the proposed waterline design to avoid conflict.

The City has requested that Lumos and Associates, Inc. (Lumos) prepare design for a realignment of the raw water line through the adjacent property to the North and to also provide raw water line plan and profile redlines where required to accommodate installation of upsized culverts.

In preparation for this Task Order Request, Lumos has reviewed documents provided by the City and conducted a virtual meeting. Some of the documents reviewed include:

- Bid Addenda and Bid Documents (Plans and Specifications) from the project rebid.
- Survey team in-person visit for existing conditions of proposed realignment dirt path within the specified parcel.
- Waterworks engineering correspondence emails in regard to the Culvert redesign.

We propose the following tasks to accomplish this scope of work.

## **Scope of Services**

### **Task 2-12 – Project Management**

This task will be utilized by Lumos for management of the overall project, including scheduling of Lumos staff resources, coordinating subconsultants, coordinating and scheduling design progress meetings, and invoicing. Detailed monthly invoices will be prepared to document all work performed.

**Deliverables:**

Internal and external project coordination.

**Payment:**

The services for this task will be billed on a Fixed Fee Basis.

### **Task 2-13 –Boundary Resolution Exhibit**

Lumos will prepare an exhibit to clearly show that land rights will be limited to the proposed properties.

**Deliverables:**

Boundary resolution exhibit in PDF format, electronic submittal.

**Payment:**

The services for this task will be billed on a Fixed Fee Basis.

### **Task 2-14 – Realignment Design Services**

Under this task, Lumos will prepare plans to describe the realignment of the 12" IPS DR-9 HDPE raw water main to follow the existing dirt foot path running through the property adjacent to the north of the existing design alignment shown on the bid drawings. The realignment design will include connections at both ends to the original alignment and will ensure that the proposed work is contained within the proposed properties.

During the design of the Newman Pump station, Lumos was directed to use the original Coleman raw water main design to develop a system curve for sizing the pumps. This included using 10" C-900 piping and the original alignment as a basis of design. There is concern that the proposed realignment and pipe change to 12" IPS DR-9 HDPE may impact the system curve, potentially requiring a change in pump selection. As part of this task, Lumos will update the system curve calculations and provide verification of the pump selection. If the pump selection requires changes which impact the size of

the vault, piping, electrical infrastructure, or redesign beyond changing labels, an additional redesign augmentation will be required.

Lumos will review the culvert plans prepared by Waterworks to determine where vertical and horizontal changes to the raw water alignment are required. For the locations where changes are warranted, Lumos will prepare a red-line plans and profile sheet to communicate the required changes, including combination ARVs as needed.

Under this task, Lumos will perform the following:

- Attend up to three virtual coordination meetings with the design team and the City to review project components, budgets, and schedule.
- Design of approximately five pages of realignment plan and profile sheets including vertical and horizontal design with viewports at a 1"=20' horizontal scale.
- Prepare red-line sheets to communicate horizontal alignment and vertical profile changes required to cross culverts and install necessary appurtenances.
- Verification of the system curve using the realignment and accounting for the change from 10" C-900 to 12" IPS DR-9 HDPE pipe material. This includes coordination with the previous construction Contractor (T&S) to confirm as-built pipe installation to confirm system curve.
- Production of a stamped, conformed Newman Reservoir Pump station plan set including Civil and Electrical sheets incorporating the changes required by the bid addenda and bidder's questions.
- Written email confirmation and verification of Summer's lane valve vault existence and location (bidder question).
- Written email clarification on quantities for suction HDPE piping for the Newman Station (bidder question).

**Deliverables:**

- Electronic PDF of the 100% design plan set for the City's Review.
- Electronic PDF of the red line plan sheets to illustrate profile changes at cross culverts.

**Conditions and Assumptions:**

- It is assumed that the proposed raw water line pipe will be molded butt fusion bonded 12" IPS DR-9 HDPE based on a 6/10/2026 meeting between Lumos and the City.
- It is assumed that some tree removal will be required for the proposed improvements.
- It is assumed that raw water pipe design adjustments as a result of the culvert redesign will be delivered as redlines on the Coleman plan sheets.
- It is assumed that The City has or will procure all required rights in the form of easement agreements, public utility easement, right-of-way, etc to legally realign and install the raw water piping within the proposed properties and that the existing dirt trail will be utilized for construction.
- This task does not include land acquisition assistance. If required, these services can be provided under a future proposal.
- This proposal does not include any permitting services, it is assumed that all permitting will be the responsibility of the City.
- This scope does not include geotechnical investigation, and it is assumed that the contractor will utilize the existing project geotechnical report.

- It is assumed that, due to potential high points in the raw water pipe realignment, combination air release valve vaults may be required.
- It is assumed that Lumos will reference existing specifications and details present in the bid plan set such as pipe material, pipe trenching, surface restoration, etc, and that Lumos will not provide new detail drawings or specifications.
- It is assumed that ANSI NSF61/372 certified components will not be required for the raw water components.
- This scope does not include evaluation or identification of root zone of protected trees. The City shall be responsible for any associated arborist, tree specialist, and/or tree removal fees and/or permits.
- This proposal does not include stream, creek, or waterway delineation.
- An opinion of probable construction cost is not included in this proposal.
- No additional site visits are included in this proposal.
- Construction administration services including submittal reviews are not included in this task but may be included under an amended scope.
- A 100% level plan set and a single round of comments will be provided.

**Payment:**

- The services for this task will be billed on a Fixed Fee Basis.

**Task 2-15 – Pump Station Construction Submittal and RFI Response**

Lumos will provide review of submittals and RFIs related to the Newman Pump station portion of the work designed by Lumos. Lumos has retained J Calton Engineering, the original electrical engineering on the Newman Pump station portion of the design, to provide responses to electrical submittals and RFIs related to the booster pump station. These services will be provided on an as requested basis.

**Deliverables:**

- Review of submittal and response to contractor RFI's.

**Conditions and Assumptions:**

- Additional electrical redesign work as a result of a change in pump selection due to the realignment is not included under this task.
- Additional electrical design work is not included.
- Construction support for electrical items which fall outside of the Lumos Newman Reservoir pump station design is not included

**Payment:**

- The services for this task will be billed on time and materials not to exceed basis. It is anticipated that civil construction submittal and RFI review will take approximately 20 hours and Electrical construction submittal and RFI review will take approximately 22 hours.
- Work performed under this task will be billed on a time and materials (T&M) basis in accordance with our current fee schedule.

**Task 2-16 – On-Call Services**

Lumos & Associates will be available to complete additional work and/or attend project meetings not otherwise specified in this scope of services and as requested by the Client. Lumos shall receive written authorization from the client prior to commencing any work under this task. Work performed under this task will be billed on a time and materials (T&M) basis in accordance with our current fee schedule.

**Fee Summary**

The tasks described in the Scope of Service will be completed for the following fees:

Task Number	Description	Value	Terms
2-12	Project Management	\$ 1,100	Fee
2-13	Boundary Resolution Exhibit	\$ 600	Fee
2-14	Realignment Design Services	\$ 19,000	Fee
		\$ 20,700	
2-15	Pump Station Construction Submittal and RFI Response	\$ 11,000	T&M NTE
2-16	On-Call Services	\$ 3,600	T&M NTE
		\$ 14,600	
		<b>\$ 35,300</b>	

Lumos and Associates, Inc. will send monthly progress billings on this project. The amount of these billings will be based upon the percentage of work completed. The terms are 'Due Upon Receipt' and accounts are past due after 30 days.

**Schedule**

Task Number	Description	Finish Date
	Notice to Proceed	6/26/2026
2-12	Project Management	9/7/2026
2-13	Boundary Resolution Exhibit	7/2/2026
2-14	Realignment Design Services	7/24/2026
2-15	Pump Station Construction Submittal and RFI Response	6/1/2027
2-16	On-Call Services	6/1/2027

Note that the schedule is subject to change based on the conditions discussed herein and the contractors approved schedule.

Sincerely,



Aaron Brusatory, PE  
Group Manager