

May 1, 2014

Mr. Roberto Yano, P.E.
City of Chula Vista
276 Fourth Avenue
Chula Vista, CA 91910

**SUBJECT: CITY OF CHULA VISTA: BONITA CANYON RESTORATION
PROJECT (DESIGN & ENVIRONMENTAL TASKS) (J-16296D)**

Dear Mr. Yano:

Rick Engineering Company is pleased to present this proposal to provide professional engineering services for the subject project. Specifically, this proposal is to provide engineering support for Wetland Restoration Plan Finalization and the preparation of construction documents for the Upland and Wetland Restoration Areas.

Helix Environmental will be the environmental consultant to Rick Engineering Company for the environmental components of this project, but their scope and fee will be discussed in a separate, attached document (See Attachment 'A').

The following summarizes the Rick Engineering Company services proposed under this contract.

SCOPE OF WORK

Task 1: Field Surveying

In coordination with the Biologist from HELIX Environmental, Rick Engineering Company will concurrently be in the field with the Biologist to identify (by stakes) the Streambed/Riparian Scrub Creation Area (See Attached; Figure 4). This is needed to determine the actual creation area to be graded. It is anticipated that over 320 cubic yards of excess material will be excavated.

To prevent existing flows from travelling along the existing edge of the access road and to also minimize excess material from being hauled off of the project site, the goal will be to elevate and re-grade the access road. Field surveys will be needed of the existing access road and surrounding area for this proposed design.

Task 2: Grading Plans and Estimate

Prepare grading plans at 1" = 20 ft. of the Streambed/Riparian Scrub Creation Area and Elevated/Re-graded Access Road. Contours will be shown at 1-ft. intervals and spot elevations will be shown as necessary.

Mr. Roberto Yano, P.E.

May 1, 2014

Page 2 of 6

Also, prepare an Opinion of Probable Construction Costs for the proposed grading work.

Task 3: Construction Storm Water Management Plan

Prepare a Construction Storm Water Management Plan (Form 5504A) based on the requirements in of the City of Chula Vista Development Services Department. It is assumed that the construction activity will result in land disturbance of less than one acre, therefore the project is not subject to the Construction General Permit 2009-0009-DWQ and a Storm Water Pollution Prevention Plan (SWPPP) will not be required. If the construction activity is equal to or greater than one acre, a separate scope and fee can be provided for the preparation of a SWPPP.

Provide coordination with the client to obtain information necessary for completion of CSWMP (i.e. owner information, site information, construction material information, etc.).

The following item may be required, but is not included in the scope of work stated above. Additional authorization will be required for these services:

- Preparation of a CSWMP Amendment, Weather Triggered Action Plan (WTAP), Sampling and Analysis Program (SAP), Storm Water Pollution Prevention Plan (SWPPP), Notice of Intent (NOI), Change of Information (COI), or Notice of Termination (NOT).

Task 4: Environmental Support

Provide Helix Environmental engineering support in the preparation and approval of the required Upland and Wetland Restoration Plans.

Task 5: Meetings & Coordination

- Attend up to two (2) field meetings. It is anticipated that one of the field meetings will be prior to the start of the project (w/HELIX).
- Attend (2) office meetings with the City of Chula Vista regarding the project.
- Provide up to 8 total hours of as-needed coordination with the City of Chula Vista.

Task 6: Environmental

Please see attached scope and fee from HELIX Environmental (See Attachment 'A').

ESTIMATED FEE :

We will perform the above service for a time and materials, not-to-exceed fee of **\$44,272.00**.

Work not specifically described under the scope of work is excluded from this agreement.

Additional services requested by the Client shall be performed on a time and materials basis and billed per our current schedule of hourly rates.

Mr. Roberto Yano, P.E.

May 1, 2014

Page 3 of 6

Printing, delivery, mileage, and other miscellaneous reimbursable expenses will be billed on a time and materials basis as accrued, up to the approved contract amount.

For progress billing purposes, our fees break down as follows:

Project Tasks:

1) Task 1: Field Surveying	\$ 5,130.00
2) Task 2: Grading Plans	\$ 6,180.00
3) Task 3: Construction Storm Water Management Plan	\$ 3,042.00
4) Task 4: Environmental Support	\$ 2,250.00
5) Task 5: Meetings & Coordination	\$ 5,310.00
6) Task 6: HELIX Environmental Tasks	\$21,500.00
7) Direct Expenses	<u>\$ 850.00</u>
Total:	\$44,272.00

Optional Project Tasks:

The following Rick Engineering Company related tasks are dependent on the direction received from the U.S. Army Corps of Engineers and the City:

A. Hydrologic & Hydraulic Modeling

Prepare hydrologic and hydraulic modeling for up to 2,500 linear feet of the creek and up to 2 tributaries to identify existing floodplain limits, flow velocities and shear forces within the channel and overbank areas, for the 2-year, 5-year, 10-year, 25-year, and 100-year storm events.

Analyze the same storm events for up to two proposed mitigation grading configurations including stream re-grading, and/or drop structures.

B. Sediment Transport Modeling

Perform a Site visit to collect existing n-values and up to 5 soil samples. Prepare a Sediment Transport modeling utilizing Fluvial-12 to assess the sediment transport through the existing channel as well as the anticipated impacts to short term and long term sediment transport within the system resulting from up to two proposed mitigation scenarios.

Mr. Roberto Yano, P.E.

May 1, 2014

Page 4 of 6

C. Riprap/Stabilization Design

Prepare engineering design calculations for stream stabilization measures including bio-engineered solutions and/or riprap design.

D. Hydraulic Report

Prepare a preliminary hydraulic report summarizing the results of the two investigated mitigation scenarios.

Prepare a final hydraulic report summarizing the design calculations and findings for the selected final design mitigation scenario.

E. Additional Meetings & Coordination

Attend four (4) meetings and provide additional coordination/support to the HELIX and the City.

F. Additional Environmental Tasks

HELIX has included the scope and fee for Optional Tasks in the attached document. (See Attachment 'A'.)

G. Additional Civil Design/Grading Plans

If additional work is required downstream of the existing gabion structure, then additional civil design plans, grading plans and an opinion of probable costs will need to be prepared.

H. Water Quality Applicability Letter

Prepare a letter summarizing the projects compliance with the City of Chula Vista Storm Water Manual (2011) and supporting the determination that the project is not classified as a priority development project. Preparation of a Water Quality Technical Report is specifically excluded from this scope of work.

I. Additional Field Surveying

Obtain additional field information for the additional project area as needed. This data will supplement the topographic contour files provided by the City.

Fees for Optional Project Tasks:

1) Task A: Hydrologic & Hydraulic Modeling	\$ 9,150.00
2) Task B: Sediment Transport Modeling	\$10,910.00
3) Task C: Riprap/Stabilization Design	\$ 4,830.00
4) Task D: Hydraulic Report	\$10,700.00
5) Task E: Additional Meetings & Coordination/Support	\$ 7,500.00

Mr. Roberto Yano, P.E.

May 1, 2014

Page 5 of 6

6) Task F: Additional HELIX Environmental Tasks	\$15,000.00
7) Task G: Additional Grading Plans and Estimate	\$10,220.00
8) Task H: Water Quality Applicability Letter	\$ 1,500.00
9) Task I: Additional Field Surveying	\$ 3,465.00
10) Additional Direct Expenses	\$ 2,500.00
Total (Optional Tasks):	\$ 75,775.00

Fees and expenses will be billed monthly as the work progresses and the net amount shall be due within thirty (30) days from the date of receipt of the invoice in the Client's office.

EXCLUSIONS:

- Changes in proposed project grading after 1st submittal
- Sediment Transport Modeling
- Environmental permitting or processing beyond coordination
- LID/HMP/WQTR
- Photogrammetrical Services
- Geotechnical
- Structural Analysis/Calculations
- Retaining Wall/Sound Wall Design
- Traffic Design/Analysis
- Landscape and Irrigation
- Utilities
- Right of Way Services
- Bid/Construction Support and Services
- As-Builts

STANDARD PROVISIONS OF AGREEMENT:

The enclosed Standard Provisions of Agreement are incorporated herein and made a part of this agreement.

Mr. Roberto Yano, P.E.

May 1, 2014

Page 6 of 6

CONTRACT EXECUTION:

If notice is delayed for any reason beyond sixty (60) days, the parties understand that the terms and conditions contained herein are subject to revision.

If you would like us to proceed on this work as outlined above, we ask that you please sign and return this agreement as our written authorization.

If you have any questions regarding this agreement, please feel free to contact me. Thank you for requesting Rick Engineering Company to provide these services.

Sincerely,
RICK ENGINEERING COMPANY

Edgar Camerino, P.E.
R.C.E. No. 58844, Exp. 06/30/15
Associate Principal

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Attachments

cc: Mr. Jamal Naji, City of Chula Vista
Mr. Dennis Bowling, Rick Engineering Company
Ms. Roberta Cronquist, Rick Engineering Company

APPROVED:

BY: _____ DATE: _____

PRINT NAME: _____