

January 28, 2019

JN 167409

Ms. Jackie Lillio
CITY OF SANTA CLARITA
Public Works Department
23920 Valencia Boulevard, Suite 140
Santa Clarita, CA 91355
Via e-mail jlillio@santa-clarita.com

Subject: Canyon Country Community Center – Construction support and staking proposal for phase 1.

Dear Ms. Lillio:

Enclosed herewith is the *Additional Work Request No. 03* (AWR No. 03) for additional services required for the subject project. This proposal is to provide construction support and staking for the rough grading of the phase one of this project.

Attached please find our *Summary of Additional Work and Fee*. If the proceeding meets with your approval, please sign and return to our office for processing. If you have any questions or require any additional information, please do not hesitate to call me at (951) 506-2073.

Respectfully Submitted,



Miguel V. Gonzalez
Project Manager

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JN 167409
Request No. 3
January 28, 2019

WORK REQUEST SUMMARY

Client: City of Santa Clarita
Work Requested By: Jackie Lillio
Project Name: Canyon Country Community Center (C4) – RG Construction Support and Staking
Summary of Additional Work: **TASK 4.1: CONSTRUCTION SUPPORT**

Consultant shall provide construction support as required for civil improvements associated with this project. Consultant shall visit the jobsite if required to observe progress and compliance with approved construction document. Consultant shall also provide recommendations regarding any request for information (RFI), civil plans construction issues or change order request submitted by the contractor for civil improvements. Consultant shall review and make recommendation for approval or denial of:

- Contractor Submittals,
- All payment requests submitted by the construction contractor for civil improvements.

Scope includes 200 hours budget time. Additional construction support services will be performed, if required, on an hourly basis for an additional fee.

TASK 4.1: RECORD DRAWINGS / AS-BUILT PLANS

Consultant shall prepare As-Built Plans for all civil plans for this project. The As-Built effort consists of visual inspection and verification of all surface improvements for the project, for consistency with the approved plans. In addition, Consultant will use RFI's, contractor's mark-up plans and field notes for this task. Contractor for this project is responsible of providing mark-up plans to consultant.

A total of 60 hours has been budgeted for this task.

SURVEY SERVICES

TASK 5.1: PROJECT CONTROL

Horizontal and vertical control will be established at the site sufficient to support a design survey, future construction staking, and mapping. Unless otherwise directed by the Client, the basis of horizontal control will be California Coordinate System of 1983 (CCS 83), Zone V, Epoch 2007.00. Coordinates will be expressed as grid values in terms of the U.S. survey foot. Coordinates will be based on published values from the national geodetic survey (NGS).

Vertical control will be provided in terms of the North American Vertical Datum of

1988 (NAVD 88), based locally upon published bench mark values from the County of Los Angeles.

TASK 5.2: GRADING LIMITS & SAWCUT LINES

Michael Baker shall set grading limits stakes at approximate 100-foot intervals along the limits of permit as shown on the referenced rough grading plans.

Michael Baker shall provide one set of paint marks or stakes for sawcut lines & limits of removal as shown on the referenced plans. Removal marks shall be set at angle points, beginning and end of removal limits as needed.

TASK 5.3: MASS GRADING STAKES

Mass grading stakes shall be set after the removal of unsuitable material and before fill operations begin. Mass grading stakes can be set along street centerlines and pad lines at the approximate density of a 200-foot grid. Mass grading stakes are intended to orient the Contractor and allow grade to be developed within a few feet of finished grade.

This task will be invoiced on Time and Material (T&M) basis.

A maximum of 80 field crew hours has been budgeted for this task. Required office work for these services, such as supervision, scheduling, calculations or data processing for these surveys will also be included on the monthly invoice.

TASK 5.4: SLOPE STAKES

Slope stakes shall be set at approximate 50-foot intervals and at BCs, ECs and other points of control at an offset to be agreed upon. Slope stakes shall be set for slopes higher than 4 feet. Back-up slope stakes shall be set when the height of the slope exceeds six (6) feet. Slope stakes shall be marked with cut or fill information and slope ratios.

TASK 5.5: ROUGH GRADE AND CONTOUR STAKES

Rough grading stakes for contour areas not controlled by slope stakes shall be set when rough grade has been developed within a foot of finished contour grade. Pad stakes shall be set at each corner and on a 50' grid. These stakes shall be marked with a cut or fill to the pad grade. One blue top stake shall be set at the pad elevation of each pad to control final lot grading.

One set of slope stakes shall be provided for rough grading for two desilting basins. Slope stakes shall be set at approximate 50-foot intervals and at BCs, ECs and other points of control at an offset to be agreed upon. Slope stakes shall be set for slopes higher than 4 feet. Back-up slope stakes shall be set when the height of the slope exceeds six (6) feet. Slope stakes shall be marked with cut or fill information, slope ratios and bench grades.

One set of line and grade stakes for the basin pipelines shall be provided at 25-foot intervals.

TASK 5.6: ROUGH GRADE CERTIFICATION

Michael Baker shall certify line and grade of all, streets and slopes shown on the referenced grading plans at the conclusion of rough grade construction.

The budget amount shown hereon for this work task is based on one grading acceptance review being performed in minimum increments of 500 linear feet of channel.

Rough grade acceptance measurements shall be taken in the following locations:

- Contour Areas: Rough grade sections shall be checked horizontally and vertically at approximate 50-foot intervals.
- Slopes: Slopes not controlled by improvements shall be measured at approximate 50-foot intervals. Slope returns shall also be measured at the one-half delta.
- Pads: Finish grade sections shall be checked horizontally and vertically at approximately 50-foot intervals.

Rough grade site acceptance shall be based upon 90% of the field measurements meeting the following tolerances:

<u>Item</u>	<u>Horizontal</u>	<u>Vertical</u>
Tops scaled	1.0'	0.3'
Toes scaled	1.0'	0.3'
Contour Areas	1.0'	0.3'
Pads	0.3'	0.05'
Slope Inclination	0.5' normal to the plane of the slope.	

After acceptance of grading, Consultant shall provide the City and the Client with a letter of certification of line and grade for rough grading.

TASK 5.7: STORM DRAIN, DETENTION & INFILTRATION SYSTEMS

Michael Baker shall provide one set of line and grade stakes for the storm drain pipe on 25-foot stations, at all angle points, beginning and ends of curves, collars, junction structures and risers. Stakes shall be marked with a cut to flow line of pipe based upon the referenced Improvement Plans.

Junction Structures - One set of line and grade stakes shall be set at the inlets and outlets, with grades marked with a cut or fill to inverts.

Manholes – One stake per manhole, offset at approximately 5 feet and marked with a cut or fill to top of rim and cut to invert.

Detention and Infiltration Systems – Two offset stakes at each angle point and one set of stakes along perimeter at 50' interval, with cuts to the bottom of pad.

TASK 5.8: OVER-EX & ALLUVIAL REMOVAL TOPOS

Michael Baker shall provide up to twenty (20) over-ex or alluvial removal topos. Michael Baker shall provide an exhibit of each topo.

Mass excavation quantities are not a part of this task.

The budget for this work task is based on processing 20 removal topos.

TASK 5.9: RE-STAKING ALLOWANCE

It is anticipated that additional Survey services for re-staking may be required. Michael Baker shall perform such work at the request of the Client and shall document all field Survey crew time for these tasks with "Daily Request for Field Work" tickets approved by the Client's Field Representative. Re-staking shall be invoiced monthly at the hourly rates shown below under Additional Services Contingency.

TASK 5.10: OWNERS ALLOWANCE

It is anticipated that additional Survey services for tasks not anticipated or included in this agreement. Michael Baker shall perform such work at the request of the Client and shall document all field Survey crew time for these tasks with "Daily Request for Field Work" tickets approved by the Client's Field Representative. This task shall be invoiced monthly at the hourly rates shown below under Additional Services Contingency.

ASSUMPTIONS:

- Access to the Job site will be provided by client.

EXCLUSIONS:

The following items are not included in this Agreement, but can be performed under the terms of the Extra Work Contingency shown elsewhere in this Agreement:

:

1. Re-staking for lost or destroyed stakes.
2. As-constructed Surveys except as provided for herein.
3. Removal topography or subdrain locations, in excess, of the amounts shown hereon.
4. Certification of utilities or re-certifications.
5. Staking per landscape architect plans.
6. Buttress or shear key stakes in excess, of the amounts shown hereon.
7. Any other work task not specially set forth in the above Scope of Service

Fee for Additional Work:

TASK 4.1: CONSTRUCTION SUPPORT

Project Manager (160 hrs) \$ 41,600

TASK 4.2: RECORD DRAWINGS / AS-BUILT PLANS

Senior Engineer (30 hrs)
Project Manager (30 hrs) \$ 11,580

SUBTOTAL: \$ 53,180

SURVEY SERVICES

<i>Task 5.1 Project Control</i>	<i>\$ 2,900</i>
<i>Task 5.2 Grading Limits & Sawcut Lines</i>	<i>\$ 2,000</i>
<i>Task 5.3 Mass Grading Stakes</i>	<i>\$ 2,000</i>
<i>Task 5.4 Slope Stakes</i>	<i>\$ 4,000</i>
<i>Task 5.5 Rough Grade and Contour Stakes</i>	<i>\$ 5,900</i>
<i>Task 5.6 Rough Grade Certification</i>	<i>\$ 4,200</i>
<i>Task 5.7 Storm Drain, Detention & Infiltration System</i>	<i>\$ 7,900</i>
<i>Task 5.8 Over-Ex & Alluvial Removal Topos</i>	<i>\$ 11,000</i>
<i>Task 5.9 Re-staking Allowance</i>	<i>\$ 6,000</i>
<i>Task 5.10 Owners Allowance</i>	<i>\$ 6,000</i>

Survey Services \$ 34,400

SUBTOTAL: \$ 51,900

TOTAL: \$ 105,080

*If additional tasks not included in this scope of work are required, the scope and corresponding fee may be adjusted accordingly based on direction from the Client. All services outlined herein this scope of work will be performed **not-to-exceed \$105,080** plus the direct cost of reimbursable expenses, to be billed monthly on a time and materials basis.*

Authorized By:

(Client)

(Date)