BID DOCUMENTS COVER SHEET

CONTRACT DOCUMENTS

FOR

L-4001 CAMPUS SAFETY CENTER
SITEWORK

at
LOS MEDANOS COLLEGE
2700 E LELAND ROAD, PITTSBURG, CA 94565

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

ADDENDUM #1

DSA File #7-C1
DSA Application #01-116948

ARCHITECT OF RECORD:
LPAS Architecture + Design
2484 Natomas Park Dr., Suite 100
Sacramento, CA 95833

March 7, 2018
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
L-4001 CAMPUS SAFETY CENTER – SITE WORK
LOS MEDANOS COLLEGE

Date: March 7, 2018

NOTICE TO ALL CONTRACTORS

You are hereby notified of the following changes, clarifications and/or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and/or previous Addenda. This Addendum shall supersede the original Contract Documents and previous Addenda wherein it contradicts the same, and shall take precedence over anything to the contrary therein. All other conditions remain unchanged.

This Addendum forms a part of the Contract Documents and modifies the original Contract Documents dated February 9, 2018. Acknowledge receipt of this Addendum in space provided on the Bid Proposal Form. Failure to acknowledge may subject Bidder to disqualification.

A. Deletions, Additions, Changes, Revisions

Item: General

1. Add: Meeting Minutes (attached)
   a. Add Meetings Minutes from Mandatory Pre-Bid Meeting, dated February 22, 2018

2. Reports: For reference, the following reports have been posted to the District’s Open Solicitations web page - http://www.4cd.edu/webapps/PurchasingViewBids/default.aspx
   a. Geotechnical Investigation Report, Campus Safety Center, Los Medanos College, 2700 East Leland Road, Pittsburg California, Dated September 8th, 2015, prepared by Kleinfelder.
   b. Geologic and Seismic Hazards Assessment Report, Proposed Campus Safety Center, Los Medanos College Campus, 2700 East Leland Road, Pittsburg California, September 11, 2015, prepared by Kleinfelder.

3. CGS (California Geological Survey) Approval Letter: For reference, the following approval letter has been posted to the District’s Open Solicitations web page - http://www.4cd.edu/webapps/PurchasingViewBids/default.aspx
ADDENDUM #1


4. **Add:** Lime Treatment Product Information (attached)

5. **Add:** “Back 40 Infill Area” location map (attached)

### Item: Specifications

6. **Replace:** SECTION 00007 SEALS PAGE (attached)
   a. Replace existing SECTION 00007 SEALS PAGE, (2 pages) in its entirety, with the attached SECTION 00007 SEALS PAGE (2 pages).

7. **Revise:** SECTION 00010 - TABLE OF CONTENTS
   a. Revise SECTION 00010 - TABLE OF CONTENTS to include SECTION 01030 – ALTERNATES

8. **Replace:** SECTION 00300 BID PROPOSAL FORM (attached)
   a. Replace existing SECTION 00300 BID PROPOSAL FORM with the attached SECTION 00300 BID PROPOSAL FORM

9. **Add:** SECTION 01030 – ALTERNATES (attached, in its entirety)

10. **Add:** SECTION 31 23 00 EXCAVATION AND FILL, page 4, Item 2.1
    a. **ADD:** 2.1D All non-expansive engineered fill (import or native) shall meet the following requirements: Maximum particle size of 3 inches, 90% pass the 1-inch sieve, plasticity index 12 or less, liquid limit less than 30, percent passing the #200 sieve between 15% and 40%.

11. **Delete:** SECTION 31 23 00 EXCAVATION AND FILL, page 6, Item 3.8C
    a. **DELETE:** “in Appendix F”

12. **Delete:** SECTION 31 23 00 EXCAVATION AND FILL, page 7, Item 3.12B
    a. **DELETE:** “Appendix F of”

13. **Revise:** SECTION 31 23 00 EXCAVATION AND FILL, page 7, Item 3.12C
    a. **Revise to read:** “Perform compaction using rollers, pneumatic or vibratory compactors or other equipment and mechanical methods the Contractor chooses to use to meet the various requirements specified in the Geotechnical Report.”

14. **Add:** SECTION 31 23 00 EXCAVATION AND FILL, page 7, Item 3.12D1
    a. **Add:** 3.12D1.a Reference to the compaction requirements are stated in section 6.5.4 of the Geotechnical Report.
    b. **Add:** 3.12D1.b The on-site soils used for engineered fill shall be placed in less than 8 inch lifts, and compacted between 88-92 percent relative compaction,
    c. **Add:** 3.12D1.c Imported non-expansive soils used for engineered fill shall be placed in less than 8 inch lifts, and compacted to at least 90 percent relative compaction.
    d. **Add:** 3.12D1.d The upper 12 inches of pavement subgrade shall be compacted to at least 95 percent relative compaction.
ADDENDUM #1

Item: Drawings
1. Add:
   a. Sheet A1.11, Details B1, D1, F3, F5, H1, H7, K1, and K7  
      Add: Compaction requirements are added, as specified in Section 6.5.4 of the 
            Geotechnical Report: 88-92% for native clay soils, 90% for engineered fill, 95% upper 
            12” of pavement subgrade, and aggregate base 95%.
   b. Sheet L1.00, Landscape Note No. 3  
      Add: Landscape areas, gradients shall be at least 5 percent toward area drains.
   c. Sheet L1.11, Details B1 and F1  
      Add: Compaction requirement, as specified in Section 6.5.4 of the Geotechnical 
            Report: 88-92% for native clay soils, 90% for engineered fill, 95% upper 12” of pavement 
            subgrade, and aggregate base 95%.
2. Change:
   a. Sheet S1.3, Detail No. 8 Over Excavation and Recompaction  
      Change: Detail No. 8 does not apply to grading.
3. Replace: Civil Drawings  
   a. Replace existing Civil drawings C1.0, C2.00, C3.00, 3.01, C4.00, C5.00, C6.00, and C6.01 
      with the attached stamped “DSA Backcheck” drawings, dated 3/08/18.

ATTACHMENTS:
Pre-Bid Meeting Minutes  
SECTION 00007 SEALS PAGE  
SECTION 00300 BID PROPOSAL FORM  
SECTION 01030 – ALTERNATES  
Civil Drawings C1.0, C2.00, C3.00, 3.01, C4.00, C5.00, C6.00, and C6.01  
Lime Treatment Product Information  
“Back 40 Infill Area” location map

B. For questions regarding this Addendum, please contact:

   Jovan Esprit, Contracts Manager  
   Contra Costa Community College District  
   500 Court St., Martinez, CA 94553  
   Email: jesprit@4cd.edu;  
   Facsimile: 925-370-7512
ADDENDUM #1

All other terms and conditions of BID are to remain the same.

LPAS Architecture + Design
2484 Natomas Park Dr., Suite 100
Sacramento, CA 95833

[Signature]
Architect of Record: Troy Pennington

Division of the State Architect
1515 Clay Street, Suite 1201
Oakland, CA 94612

END OF ADDENDUM #1
PRE-BID MEETING NOTES
PRE-BID MEETING & SITE WALK (MANDATORY)

======================================================================================
PROJECT NUMBER/NAME: L-4001 Campus Safety Center – Sitework
CAMPUS: Los Medanos College at 2700 E Leland Rd, Pittsburg, CA 94565

DATE: February 22, 2018
TIME: 11:00 AM
LOCATION: Los Medanos College -

Important Note: An on-site job walk follows the meeting. Attendance at the job walk for this project is mandatory. At completion of the job walk, be sure to obtain a Certification of Site Visit (Section 00450), signed by the District. This signed form must be submitted with your bid.

1. Opening Remarks – Joe Stam, Construction Manager
   • Introductions
   • DIR Registration requirement

2. Project Team Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kevin Little</td>
<td>Sr. Project Manager - Critical Solutions, Inc. (CSI)</td>
</tr>
<tr>
<td>Joe Stam</td>
<td>Construction Manager - Critical Solutions, Inc. (CSI)</td>
</tr>
<tr>
<td>Russell Holt</td>
<td>Buildings and Grounds (B&amp;G) Manager, LMC</td>
</tr>
<tr>
<td></td>
<td>Inspector of Record (TBD)</td>
</tr>
</tbody>
</table>

3. Brief Project Description

   General site work and utility work including, but not limited to:
   • Grading, paving, utilities and landscaping work.
   • Temporary construction
   • Site Clearing and demolition
   • Grading and construction of a certified building pad
   • Concrete and Asphalt Paving
   • Underground Site utilities including storm and sewer with boxes, vaults and grates all connected to existing site utilities and stubbed to within 5 feet of the building
   • ADA improvements, signs, railings, miscellaneous site furnishing
   • Landscaping, Irrigation and hardscape

Contra Costa Community College District
• Gates and fencing and related underground electrical, mechanical, and plumbing work.
• Parking bumpers, striping and signage
  Site electrical is a separate bid package excluded from this one. The work will be performed concurrently with this contract. The contractors will coordinate their work.

• Timeline (calendar days):
  o Estimated NTP April 12, 2018
  o Construction Duration 197 calendar days.
  o Estimated closeout 35 days after Substantial Completion.

4. Project Work Restrictions
• Existing Fire Lane to remain open at all times.
• Work to be coordinated with Electrical Low Voltage
• Refer to General Conditions Section 00700

5. Bid Phase Communications & Correspondence
• All questions related to this Project must be in writing and directed to:

  Jovan Esprit, Contracts Manager
  Contra Costa Community College District
  500 Court St., Martinez, CA 94553
  Email: jesprit@4cd.edu Facsimile: 925‐370‐6517

  CC: - Joe Stam joe_s@csipm.com

6. Addenda Update
• No addenda issued

7. Bid Phase Schedule Milestones
• Last day for RFI: February 27, 2018, 5:00 PM
• Last Addendum Issued: March 6, 2018
• Bid Opening: March 13, 2018, prior to 11:00 AM
• Award of Contract: March 29, 2018
• Notice to Proceed: April 12, 2018

8. Bid Opening
• Bids must be received at the Contra Costa Community College District Office at 500 Court St, Martinez, CA by March 13, 2018, prior to 11:00 AM.
• All bids will be time stamped at the reception counter in the building lobby.
• Any bid received after the bid opening time will be rejected.
• An announcement will be made at the 2-minute mark prior to the bid opening deadline.
Bid Package

- Review your bid package carefully before submitting it. Be sure to include all required documentation.

9. Contract Duration Discussion

- Section 00600, Construction Agreement
- 140 Calendar Days to Substantial Completion (SC) – LDs $1000/Calendar day beyond SC
- 30 Calendar Days between SC and Final Completion – LDs $500/Calendar day beyond FC

10. Substitution requests MUST comply with Contract Documents

- Within three (3) work days of bid opening on District form; acceptance at District’s sole discretion – form is provided on page 4 of section 01340 Administrative Forms & Logs.

11. Site Job Walk

- Review Construction Site
- Distribute signed Certificate of Site Visit forms
- Aerial view of access staging areas.
# PRE-BID MEETING SIGN-IN SHEET

**PROJECT TITLE:** L-4001 CAMPUS SAFETY CENTER - SITEWORK

**DATE / TIME:** February 22, 2018 at 11:00AM

**LOCATION:** Los Medanos College

<table>
<thead>
<tr>
<th>COMPANY NAME</th>
<th>NAME</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pacific Coast Gen</td>
<td>Jared Baugh</td>
<td>Project manager</td>
</tr>
<tr>
<td><strong>Please provide business card</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Phone</td>
<td>925-252-0214</td>
<td></td>
</tr>
<tr>
<td>Cell Phone</td>
<td>925-766-2850</td>
<td></td>
</tr>
<tr>
<td>Email Address</td>
<td><a href="mailto:Jared@PCGE.Biz">Jared@PCGE.Biz</a></td>
<td></td>
</tr>
<tr>
<td>Rodan Builders Inc.</td>
<td>Cristian Mendez</td>
<td>Assistant Proj Eng.</td>
</tr>
<tr>
<td><strong>Please provide business card</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Phone</td>
<td>(650) 508-1700</td>
<td></td>
</tr>
<tr>
<td>Cell Phone</td>
<td>(650) 766-0614</td>
<td></td>
</tr>
<tr>
<td>Email Address</td>
<td><a href="mailto:mlacues@rodanbuilders.com">mlacues@rodanbuilders.com</a></td>
<td></td>
</tr>
<tr>
<td>B. BROS Construction</td>
<td>Senad Kasumovic</td>
<td>Foreman</td>
</tr>
<tr>
<td><strong>Please provide business card</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Phone</td>
<td>510-351-3048</td>
<td></td>
</tr>
<tr>
<td>Cell Phone</td>
<td>415-726-0801</td>
<td></td>
</tr>
<tr>
<td>Email Address</td>
<td><a href="mailto:bids@6broscon.com">bids@6broscon.com</a></td>
<td></td>
</tr>
<tr>
<td>CS1</td>
<td>Joe Stan</td>
<td>CM</td>
</tr>
<tr>
<td><strong>Please provide business card</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Phone</td>
<td>925-596-0741</td>
<td></td>
</tr>
<tr>
<td>Cell Phone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address</td>
<td><a href="mailto:joe-sc@csrp.com">joe-sc@csrp.com</a></td>
<td></td>
</tr>
</tbody>
</table>

Page 1 of 1
SECTION 00007
SEALS PAGE

ARCHITECT &
LANDSCAPE ARCHITECT: LPAS Architecture + Design
2484 Natomas Park Dr, Ste 100
Sacramento, CA 95833
Troy Pennington
(916) 443-0335

STRUCTURAL ENGINEER: Orion Structural Engineering, Inc.
11305 Rancho Bernardo Rd, Ste 121
San Diego, CA 92127
Ryan J. Omer
(858) 679-1974

MECHANICAL ENGINEER: Cantelmi Engineering
2130 F Street
Bakersfield, CA 93301
Frank Cantelmi
(661) 324-5252

ELECTRICAL ENGINEER: Cantelmi Engineering
2130 F Street
Bakersfield, CA 93301
Karen Martinez
(661) 324-5252

PLUMBING ENGINEER: Cantelmi Engineering
2130 F Street
Bakersfield, CA 93301
Frank Cantelmi
(661) 324-5252

CIVIL ENGINEER: BkF Engineers Surveyors Planners
980 9th Street, Suite 1770
Sacramento, CA 95814
Jim McCurdy
(916) 556-5800

SITE ELECTRICAL ENGINEER: Canyon Consulting Engineers
3150 Hilltop Mall Rd., Ste. 18
Richmond, CA 94806
Antonio Mortera
(510) 520-8600
TEECOM
1333 Broadway Suite 601
Oakland, CA  94612-1906
Andrew Gonzales
510-250-6663

END OF SECTION 00007
1. INTRODUCTION

A. The Bidder proposes to perform the Work for the Contract Sum and within the proposed Contract Time, based upon an examination of the site and the Bid and Contract Documents.

B. The Bidder certifies this Bid is submitted in good faith.

C. The Bidder agrees that the Contract Sum and other proposed terms will be considered in evaluating Bids and may be negotiated and adjusted before awarding of Contract.

D. The signed copy of the Certification of the Visit to the Site shall be attached to the Bid Form Submittal.

E. A fully executed Statement of Bidder's Qualifications signed by an authorized officer of the Bidder submitting the Bid shall be attached to the Bid Form.

F. A fully executed Non-Collusion Affidavit signed by an authorized officer of the Bidder submitting Bid shall be attached to the Bid Form.

G. The District shall award the contract to the lowest responsive and responsible Bidder. The evaluation of the low bid shall be based on the total of Item 2.A Base Bid plus Item 3.A, Lime Treatment.

H. The District reserves the right to deduct Item 3.A Alternate through change order, within 30 calendar days after the Notice to Proceed for the total amount listed in Item 3.A with no change to Contract Time.

2. CONTRACT SUM

A. BASE BID

For labor, materials, bonds, fixtures, equipment, tools, transportation, services, sales taxes, and other costs necessary to complete the general construction in accordance with the Contract Documents, for a stipulated Contract Sum in the amount of:

____________________________________________ Dollars (__________________________)

____________________________________________
3. **ADD ALTERNATES**
   
   A. **Lime Treatment:** Provide cost to supply and install Lime Treatment as per Lime Treatment Product Information provided in ADDENDUM #1. Install 4% Lime Treatment, using soil from Campus “Back 40 Infill Area” location. See “Back 40 Infill Area” location map in ADDENDUM #1.

   ______________________________________________________ Dollars ($__________________________)

4. **COMPLETION TIME**

   B. For establishing the Date of Final Completion the contract time for the Base Bid shall be as indicated in Section 00600, Construction Agreement. This time may be subject to modification to facilitate the work, as mutually agreed upon at a later date.

   C. The Bidder certifies that the Bid is based on the Contract Time for completion as stated in Section 00600, Construction Agreement. Bidder further certifies that the Base Bid amount is sufficient to cover all labor, materials, central office and construction site overhead, profit, and all other costs related to the completion of the Project for the entire Project construction time for both the General Contractor and all Subcontractors, as stated above in paragraphs 2 and 3.

5. **ADDENDA**

   A. The Bidder acknowledges receipt of the following Addenda, and certifies the Bid has provided for all modifications and considerations required therein.

   None [   ]

   Addendum No.: ________ dated _________________

   Addendum No.: ________ dated _________________

   Addendum No.: ________ dated _________________

   Addendum No.: ________ dated _________________

   Addendum No.: ________ dated _________________

   B. List of Additional Addenda Attached: Yes [   ] No. [   ].

6. **DESIGNATION OF SUBCONTRACTORS**

   A. The Bidder has set forth a complete list indicating the type of work, name, and business address of each Subcontractor who will perform work in excess of one-half of one percent of the Contract Sum.
B. Any portion of the work in excess of the specified amount having no designated Subcontractor shall be performed by the Bidder.

C. Substitution of listed Subcontractors will not be permitted unless approved in advance by the District.

D. Prior to signing the Contract, the District reserves the right to reject any listed Subcontractor.

<table>
<thead>
<tr>
<th>Type of Work</th>
<th>Subcontractor's Name</th>
<th>Business Address/Phone</th>
<th>CSLB License # and DIR Registration #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

E. Complete list of Subcontractors is attached: Yes [   ] No [   ]

F. Continuation list of Subcontractors is attached: Yes [   ] No [   ]

7. ACCEPTANCE AND AWARD

A. The District reserves the right to reject this Bid and to negotiate changes before or after execution of the Contract. This Bid shall remain open and shall not be withdrawn for a period of 90 days after Bid Opening date.

B. If written notice of acceptance of this Bid is mailed or delivered to the Bidder within 90 days after the date set for the receipt of this Bid, or other time before it is withdrawn, the Bidder will execute and deliver to the District a Contract prepared by District with the required Surety Bonds and Certificates of Insurance, within 10 days after personal delivery or deposit in the mail of the notification of acceptance.

C. Notice of acceptance or request for additional information may be addressed to the Bidder at the address provided.

8. BID SECURITY

A. The required 10 percent (10%) Bid Security for this Bid is attached in the form of:

( ) Bid Bond Issued By: ________________________________
9. BIDDER’S BUSINESS INFORMATION

A. Individual [ ]:

   Personal Name: ____________________________________________
   Business Name: ____________________________________________
   Address: __________________________________________________
   ____________ Zip Code: ____________
   Telephone: ________________________________________________
   Fax Number: ____________________________________________

B. Partnership [ ]:

   Co-partners’ Names: _________________________________________
   Business Name: ____________________________________________
   Address: __________________________________________________
   ____________ Zip Code: ____________
   Telephone: ________________________________________________
   Fax Number: ____________________________________________

C. Corporation [ ]:

   Firm Name: __________________________________________________
   Address: __________________________________________________
   ____________ Zip Code ____________
   Telephone: ________________________________________________
   Fax Number: ____________________________________________
State of Incorporation: __________________________

President: __________________________

Secretary: __________________________

Treasurer: __________________________

Manager: __________________________

D. Power of Attorney:

Name: __________________________

Title: __________________________

E. Contractor License No. State of

F. Bidder is submitting this proposal on behalf of a Joint Venture. Names, license numbers, and relevant information are given on a separate attachment:
   Yes [ ] No [ ].

G. Upon request, furnish appropriate documentation to substantiate and/or support the data given.

10. The undersigned hereby certifies under penalty of perjury under the laws of the State of California that all the information submitted by the Bidder in connection with this Bid and all the representations herein made are true and correct.

Executed this day of __________________________

______________________________  __________________________
Contractor’s License No. Expiration Date

______________________________
Firm Name

______________________________
Signature

______________________________
By (Print or Type Name)

______________________________
Title

End of Section 00300
SECTION 01030
ALTERNATES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS
   A. All Contract Documents shall be reviewed for applicable provisions related to the provisions in this document, and provisions in the General Conditions and other Division 1 Specification Sections shall apply to this Section without limitation.

1.2 RELATED REQUIREMENTS SPECIFIED IN OTHER SECTIONS
   A. SECTION 00200 – INSTRUCTIONS TO BIDDERS
   B. SECTION 00300 – BID PROPOSAL FORM
   C. SECTION 00700 – GENERAL CONDITIONS
   D. SECTION 01010 – SUMMARY OF WORK
   E. SECTION 01311 – PROJECT MANAGEMENT AND COORDINATION
   F. Divisions 2 through 32 Sections for Alternates requirements for the work in those Sections.

1.3 SUMMARY
   A. This Section includes administrative and procedural requirements governing Alternates. Each Alternate is identified by number and describes the basic changes to be made in the Work. A list of Alternates is included in Part 2 of this Section.

1.4 DEFINITIONS
   A. Alternate, as used herein, is a dollar amount proposed by Bidders and stated on the Bid Proposal form for Work defined in the Contract Documents that the District may elect to add to or deduct from the Base Bid, as the case may be, if an Alternate or Alternates, are accepted by the District.

1.5 REQUIREMENTS
   A. Alternate pricing quoted on the Bid Proposal Form will be reviewed by the District, and accepted or rejected at District’s sole option. Any accepted Alternate(s) will be identified in the Construction Agreement, or shall be executed by Change Order.
   B. See Section 00300, Bid Proposal Form, Paragraph 1.G for the bid award process.
   C. All Alternates are either “additive” or “deductive” or “no change” to the Lump Sum Base Bid. The Contractor shall quote the amount for each Alternate in the space provided on the Bid Proposal Form.
   D. Failure to either quote an Alternate amount or the insertion of the words “no bid,” “none” or words of similar import, may be considered as not completing the Bid Proposal Form and may constitute disqualification of the entire bid at District’s sole discretion. Bidders may insert a zero-dollar amount ($0.00) in the Alternate price line of the Bid Proposal Form if the Bidder proposes to perform the Work of the Alternate with no additional change to the Contract Sum.
E. The Base Bid and the Alternates are exclusive in their scope of Work. There is no overlap between or among the Base Bid and the Alternates.

F. The cost of any item of work shall be included only once, in the Base Bid or in the Alternates.

G. Each Alternate is intended to cover all of the Work required for a complete, finished job.
   1. Alternate Work includes all miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of the Alternate, but necessary to complete the Alternate Work according to the Contract Documents.

1.6 PROCEDURES
   A. Modify or adjust affected adjacent Work as necessary to completely integrate Work of each accepted Alternate into the Project.
   B. Notification: Immediately following Notice to Proceed, Contractor shall notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
   C. The District reserves the right to reinstate Alternates at any time within 30 calendar days after the Notice to Proceed without any increase or decrease in Contract Price (beyond the amount of the Alternates(s) listed in Section 00300, Part 3), or any increase in Contract Time.
   D. Execute accepted Alternate(s) under the same conditions as other Work of this Contract.

PART 2 - PRODUCTS

2.1 DESCRIPTION OF ADDITIVE ALTERNATES
   A. Alternates are listed in Part 3 of the Bid Proposal Form, and hence are identified below as ADD ALTERNATE NO. 3.A

ADD ALTERNATE NO. 3.A: Lime Treatment: Provide cost to supply and install Lime Treatment as per Lime Treatment Product Information provided in ADDENDUM #1. Install 4% Lime Treatment, using soil from Campus “Back 40 Infill Area” location. See “Back 40 Infill Area” location map in ADDENDUM #1.

PART 3 - EXECUTION

3.1 GENERAL
   A. Execute accepted alternates under the same conditions as other Work of this Contract.
   B. Coordination: Modify or adjust affected Work as required to completely and fully integrate that Work into the Project.

END OF SECTION 01030
Product information is for Reference Only. However, it includes information pertaining to the Lime Treatment for the LMC L-4001 Campus Safety Center - Sitework project. The general intent of the information provided is to provide (ALTERNATE) pricing for Lime Treatment as indicated in the bidding documents for the L-4001 Campus Safety - Sitework project and work scope. Contractor to use the In-Fill on campus, known as the “Back 40”.

<table>
<thead>
<tr>
<th>Spec Section:</th>
<th>31 32 13.19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Lime Soil Stabilization</td>
</tr>
</tbody>
</table>
RE: Lime Treat Mix Design 4% for the “Back 40” staging area

<table>
<thead>
<tr>
<th>Item #</th>
<th>Submittal Review Status</th>
<th>Drawing Item</th>
<th>Dated</th>
<th>Specification/ Drawing Reference #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 Reviewed/ No Exceptions Taken</td>
<td></td>
<td></td>
<td>31 32 13</td>
<td>Lime Soil Stabilization Part 1.04: “Griffin Soil” Mix Design. Samples taken from Back 40 to be used within the PE Building</td>
</tr>
<tr>
<td>2</td>
<td>2 Make Corrections Noted</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3 Amend as Noted and Resubmit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4 Rejected and Resubmit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Comments:

Date Submitted: Submitted By:
**LIQUID AND PLASTIC LIMITS TEST REPORT**

Dashed line indicates the approximate upper limit boundary for natural soils.

<table>
<thead>
<tr>
<th>MATERIAL DESCRIPTION</th>
<th>LL</th>
<th>PL</th>
<th>PI</th>
<th>%&lt;#40</th>
<th>%&lt;#200</th>
<th>USCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olive brown clayey SAND (4% lime treated)</td>
<td>53</td>
<td>38</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Olive brown clayey SAND (4% lime treated)</td>
<td>52</td>
<td>37</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Project No.:** 5167.000.058  **Client:** Griffin Soil Stabilization  **Project:** Los Medanos College

- **Location:** 1.5-2.0' Below OG, PE Bldg.  **Sample Number:** 1
- **Location:** 3.5-5.5' Below OG, PE Bldg.  **Sample Number:** 2

**Remarks:**
- ASTM D4318, Wet method
- Sample prepared by client
- ASTM D4318, Wet method
- Sample prepared by client

**Tested By:** M. Quasem  **Checked By:** J. Moriarty
3 Steps to Soil Treatment

Step 1. Furnishing the reagent
The reagent, usually powdered Quicklime Plus, arrives at the job site in pneumatic trucks. With the use of on-board blowers, the pneumatic truck transfers the reagent into a spreader truck. It takes approximately an hour to transfer and spread a load of 27 tons of material onto the subgrade.

Step 1. (cont) Spreading the reagent
The spreader truck spreads the reagent at the appropriate mix design percentage. The spreader truck utilizes ground radar to feed an on-board computer that precisely controls the spread rate to be within tolerance at all times.

Quicklime
- Calcined limestone
- Clay soils only
- Strength increase
- Expansion reduction

Quicklime Plus
- Quick Lime / Cement
- Treatment of most soils
- Uniform Strength gains
- Expansion reduction

Cement
- Treatment of sandy soils
- Treatment of base rock
- Pavement rehabilitation
- Strength increase

Soil Mixing
- Moisture Optimizing, Particle Sizing

Clay Mixing
- Landfill and Pond Liners

Asphalt Pulverization
- Sizing to 1 Minus

Dry-Sac
- 1 ton sacks of soil reagents for isolated soil modification (dry-up)

Step 2. Water mixing
The mixer and water truck has a hard connection allowing for an integrated system where water is uniformly injected directly into the mixing chamber. The amount of water is controlled by the operator with the help of an on-board computer. The mix can be as deep as 18” per lift. After initial hydration, a second mix, or re-mix is performed allowing for final adjustments in the water content and further breakdown of soil gradation.

Step 3. Compaction
Initial compaction, in lifts up to 18”, is achieved only with specialized equipment. An open ring design and heavy weight allows for lifts within lifts. This monolithic lift process achieves the proper compaction throughout the treated section.