



ALAMOGORDO, NEW MEXICO



# PROJECT MANUAL

TECHNICAL SPECIFICATIONS

## SACRAMENTO ELEMENTARY SCHOOL DEMOLITION

PSFA PROJECT # S19-001

July 06, 2020



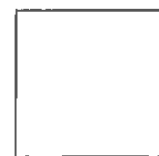
**VIGIL & ASSOCIATES**

ARCHITECTURAL GROUP, P.C.

1765 Avenida de Mercado, Mesilla, NM 88046

(575) 527-0400

[www.VA-architects.com](http://www.VA-architects.com)



SET NUMBER

PROJECT MANUAL  
INCLUDING TECHNICAL SPECIFICATIONS  
FOR GENERAL CONSTRUCTION  
OF  
SACRAMENTO ELEMENTARY SCHOOL  
DEMOLITION

FOR



ALAMOGORDO PUBLIC SCHOOLS  
PSFA PROJECT NO: S19-001

ALAMOGORDO, NEW MEXICO

July 06, 2020

**ARCHITECT**

**VIGIL & ASSOCIATES ARCHITECTURAL GROUP, P.C.**

PO Drawer Z, 1765 Avenida de Mercado, Mesilla, New Mexico 88046; 575-527-0400

**MECHANICAL & ELECTRICAL ENGINEERS**

**TESTUDO ENGINEERING**

Albuquerque, New Mexico 87107; 505-554-1282

**CERTIFICATION PAGE**

The technical material and data contained in this Project Manual were prepared under the supervision and direction of the undersigned, whose seal as a Professional Architect, licensed to practice in the State of New Mexico, is affixed below.



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**RAYMOND R. VIGIL, AIA**  
Registered Architect in the State of New Mexico  
License No. 004027  
1765 Avenida de Mercado  
Mesilla, New Mexico 88046  
575-527-0400

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**PLEASE NOTE:** REFERENCE DRAWING SHEET A-101 FOR REFERENCE TO DIVISION 1 SPECIFICATIONS. THESE DIVISION 01 SPECIFICATIONS OUTLINED IN THE DRAWINGS ARE INTENDED TO WORK IN CONJUNCTION WITH DIVISION 01 - GENERAL REQUIREMENTS (BY PSFA) AS OUTLINED IN THE PROJECT MANUAL. PLEASE NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE TWO DIVISIONS IMMEDIATELY AND PRIOR TO BIDDING. SINCE THIS IS A FUNDED PSFA PROJECT, NEW MEXICO PSFA REQUIREMENTS WILL SUPERSEDE.

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## INDEX TO BIDDING AND CONTRACT REQUIREMENTS

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## INVITATION TO BID CONSTRUCTION CONTRACT

BID NUMBER: 010-2021

Sealed bid opening date:

July 20, 2020

ALAMOGORDO PUBLIC SCHOOLS

PROJECT: SACRAMENTO  
ELEMENTARY SCHOOL DEMOLITION

DISTRICT PROJECT NO.: N/A

PSFA FUNDING:  YES  NO

DESIGN PROFESSIONAL OF RECORD:

VIGIL & ASSOCIATES, P.C.  
1765 AVENIDA DE MERCADO  
LAS CRUCES, NM 88005  
Telephone: (575) 527-0400  
Fax: (505) 890-5031  
Email: ken@va-architects.com

**BID OPENING ADDRESS:**

ALAMOGORDO PUBLIC SCHOOLS  
1211 HAWAII AVENUE  
ALAMOGORDO, NM 88310  
Telephone: (575) (812-6065)  
Fax: (575) (812-6049)

**OWNER:**

**ALAMOGORDO PUBLIC SCHOOLS**

1211 HAWAII AVENUE  
ALAMOGORDO, NM 88310  
(575) 812-6065

**DATE: July 06, 2020**

Contact Name:

Chief Procurement Officer  
Alamogordo Public Schools  
Phone: (575) 812-6046

Email: marie.bouma@alamogordoschools.org

**IMPORTANT: BIDS MUST BE SUBMITTED IN A SEALED ENVELOPE WITH THE BID NUMBER AND OPENING DATE CLEARLY INDICATED ON THE BOTTOM LEFT HAND SIDE OF THE FRONT OF THE ENVELOPE.**

SEALED BIDS WILL BE RECEIVED AT THE ABOVE SPECIFIED DATE, LOCAL TIME AND ADDRESS THEN PUBLICLY OPENED AT THE ABOVE SPECIFIED ADDRESS AND READ ALOUD. BIDS NOT RECEIVED BY THE ABOVE SPECIFIED DATE, LOCAL TIME AND AT THE LISTED ADDRESS PRIOR TO BID TIME, WILL NOT BE OPENED OR CONSIDERED. DELIVERY IS SOLELY THE RESPONSIBILITY OF THE BIDDER.

THIS BID IS SUBJECT TO THE REQUIREMENTS OF THE BIDDING DOCUMENTS AS DEFINED IN THE "INSTRUCTIONS TO BIDDERS," SECTION 00100.

THE BID PROPOSAL FORM MUST BE ACCOMPANIED BY A SURETY BOND, SUBCONTRACTOR LISTING FORM, AND DOCUMENTS SPECIFIED IN THE "INSTRUCTIONS TO BIDDERS."

IF PUBLIC SCHOOL CAPITAL OUTLAY COUNCIL – PUBLIC SCHOOL FACILITIES AUTHORITY (PSFA) HAS FUNDED THIS PROJECT IN WHOLE OR IN PART, OWNER, REFERRED TO THROUGHOUT THE CONTRACT DOCUMENTS, TO BE BOTH THE SCHOOL DISTRICT AND THE PSFA AS IF SINGULAR IN NUMBER

**This mailing contains three pages**

**INVITATION TO BID page 2**

Digital Bidding Documents (Drawings and Project Manual – PDF format) may be obtained at the office of the Design Professional of Record upon request via email. Please email your request to the following address: [victoria@va-architects.com](mailto:victoria@va-architects.com). In your email request, please send the following information: Contact Name, Job Title, Company, General or Sub-Contractor, phone number and a valid email address. This same contact information will be used to issue all addendum(s).

Incomplete sets will not be issued.

**BIDDING DOCUMENTS (HARD COPIES) MAY BE REVIEWED AT THE FOLLOWING LOCATIONS:**

1. Vigil & Associates Architectural Group, 1765 Avenida de Mercado, Mesilla, NM 88046  
Phone: 575-527-0400

**BIDDING DOCUMENTS (HARD COPIES) MAY BE PURCHASED (AT BIDDER'S EXPENSE) AT THE FOLLOWING LOCATIONS:**

2. ARI Graphix, 4716 McLeod NE, ABQ., NM 87109  
Phone: 505-884-0862

Bids shall be presented in the form of a total Base Bid proposal under a Lump Sum Contract plus any additive or deductive alternates that are selected by the Owner. A bid must be submitted on all bid items and alternates; segregated bids will not be accepted. Plans and specifications are available from the Design Professional of record.

**NOTE:** Base Bid price shall not include state gross receipts or local options taxes. Taxes will be included in the Contracted Amount at prevailing rates as a separate item to be paid by Owner.

In submitting this bid, each Bidder must satisfy all terms and conditions of the Bidding Documents. All work covered by this Invitation to Bid shall be in accordance with applicable state laws and, if bid amount is \$60,000 or more, is subject to the minimum wage rate determination issued by the office of the Labor Commissioner for this project. If the bid amount of the contractor or any subcontractor exceeds \$50,000, the contractor and/or subcontractor must comply with the registration requirements pursuant to the Public Works Minimum Wage Act.

**INVITATION TO BID page 3**

Bid Security, if bid greater than \$25,000, in the form of a surety bond executed by a surety company authorized to do business in the State of New Mexico in the amount of **5%** of the total bid, or the equivalent in cash by means of a cashier's check or in a form satisfactory to the Owner, must accompany each bid in accordance with the Instructions to Bidders.

A 100% Performance Bond and a 100% Payment and Materials Bond executed by a surety company authorized to do business in the State of New Mexico shall be required from the successful Bidder prior to award of contract.

A completed Subcontractor Listing Form must accompany each bid.

Each subcontractor shall provide a performance and payment bond on a public works building project if the subcontractor's contract (to the Contractor) for work to be performed on a project is one hundred twenty-five thousand dollars (\$125,000) or more. Failure of a Subcontractor to provide required bond shall not subject the Owner to any increase in cost due to approved substitution of Subcontractor.

The Bidding Documents contain a time for completion of the work and further impose liquidated damages for failure to complete the work within that time period.

No Bidder may withdraw his bid for **45 days** after the actual date of the opening thereof.

The Owner intends to award this Project to the lowest responsible Bidder. The Owner reserves the right to reject any and all bids, to waive technical irregularities, and to award the contract to the Bidder whose bid it deems to be in the best interest of the Owner.

Attention of the Bidder is particularly directed to the current requirements as to Resident Contractor's Preference per Section 13-4-3 NMSA 1978. The provisions of Sections 13-4-1 through 13-4-4 NMSA 1978 are not applicable to projects receiving Federal aid or when the expenditure of Federal funds designated for a specific contract is involved.

Requests for approval of substitutions for "or equal" material or equipment, if allowed by the contract documents, must include a detailed itemized comparison of the proposed substitution with the specified product and be submitted at least 10 days prior to the bid date in accordance with Paragraph 3.3 of the Instructions to Bidders.

A **pre bid meeting** is scheduled approximately 15 days, but, not less than 10 days, prior to the bid date at:

LOCATION: SACRAMENTO ELEMENTARY SCHOOL  
1211 HAWAII AVENUE, ALAMOGORDO NM, 88310

On:

DATE: JULY 10, 2020 TIME: 10:00 AM MST

END OF INVITATION TO BID

**INSTRUCTIONS TO BIDDERS – PART B**

Section 00 2114

**1.0 BID ENVELOPE**

The Bid envelope shall be addressed at the front center of the envelope to:

Alamogordo Public Schools  
Procurement Office  
Attn: Chief Procurement Officer  
1211 Hawaii Avenue  
Alamogordo, NM 88310  
575-812-6046

Also on the front of the envelope the Bidder shall mark: the name and address of the Bidder shall in the upper left corner; the name of project, Invitation to Bid Number, date of opening and, time of opening in the lower left corner; and, "**SEALED BIDS ENCLOSED**" in the lower right corner or otherwise on the face thereof.

-END OF SECTION-

# BID FORM (Bid Lots)

BIDDER'S Name and Address:

Telephone:

Fax:

Federal Tax ID #:

New Mexico Tax ID #:

CID License #

ITB NO.: 010-2021

PROJECT NAME: Sacramento Elementary School Demolition

PROJECT NO.: S19-001

LOCATION: Alamogordo, NM

This Bid is submitted to Owner:

**ALAMOGORDO PUBLIC SCHOOLS**  
 1211 HAWAII AVENUE  
 ALAMOGORDO, NM 88310  
 Phone (575) 812-6046

In collaboration with Co-Owner:

Public School Capital Outlay  
**Public School Facilities Authority**  
 1312 Basehart Road, SE  
 Suite 200  
 Albuquerque, NM 87106  
 Phone (505) 843-6272

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the Owner in the form included in the Bidding Documents to perform and furnish all Work as specified or indicated in the Bidding Documents for the Contract Price and within the Contract Time indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.

2. The Bidder accepts all of the terms and conditions of the Invitation for Bid and Instructions to Bidders, including without limitation those dealing with the disposition of bid security and other Bidding Documents. This Bid will remain subject to acceptance for 45 days after the day of Bid opening. The Bidder shall sign and submit the Agreement between Owner and Contractor (hereinafter called Agreement) with the Bonds and other documents required by the Bidding Requirements within fifteen (15) days after the date of the Owner's Notice to Award.

4. In submitting this Bid, the Bidder represents, as more fully set forth in the Agreement, that:  
 A. the Bidder has examined copies of all the Bidding Documents and of the following Addenda (receipt of all of which is hereby acknowledged):

No. \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

No. \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

No. \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

B. the Bidder has familiarized himself with the nature and extent of the Bidding Documents, Work, site, locality, and all local conditions, laws, and regulations that in any manner may affect cost, progress, performance, or furnishing of the Work;

C. the Bidder has carefully studied all reports and drawings of subsurface conditions which are identified in the Information Available to Bidders and accepts the determination set forth in the Information

Available to Bidders of the extent of the technical data contained in such reports and drawings upon which the Bidder is entitled to rely;

D. the Bidder has correlated the results of all such observations, examinations, investigations, explorations, tests, reports, and studies with the terms and conditions of the Bidding Documents;

E. the Bidder has given the Architect/Engineer written notice of all conflicts, errors, and discrepancies that he has discovered in the Bidding Documents, and the written resolution thereof by the Architect/Engineer is acceptable to the Bidder;

F. this Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; the Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; the Bidder has not solicited or induced any person, firm, or corporation to refrain from bidding; and the Bidder has not sought by collusion to obtain for himself any advantage over any other Bidder or over the Owner;

G. the Bidder acknowledges that he has attended any mandatory pre-bid conference scheduled by the Owner and/or the Architect/Engineer pertaining to this project;

H. the Bidder agrees to show clearly on the envelope in which the Bid is submitted the Project Name and Number and Invitation to Bid Number; and,

I. the Bidder will complete the Work for the following price(s) (**do not include any gross receipts tax in the price(s)**).

J. in order to receive New Mexico Resident or Veteran's Preferrance, you must attach a **VALID** certificate.

5. Bids shall be presented in the form of a total Base Bid proposal under a Lump Sum Contract plus additive alternates that are selected by the Owner. A bid must be submitted on all bid items and alternates; segregated bids will not be selected by the Owner.

**BID LOT 1** (please use typewriter or print legibly in ink) – Describe in plans specific of abatement remediation, demolition, and site restoration

**Base Bid** (use words):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ ( \$ \_\_\_\_\_ )

**BID LOT 2 (ASBESTOS ABATMENT) N/A**

**Base Bid** (use words):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

( \$ \_\_\_\_\_ )

6. The Bidder agrees that:

A. The Work to be performed under this Contract shall be commenced not later than ten (10) consecutive days after the date of written Notice to Proceed, and that Substantial Completion shall be achieved not later than 120 days after the date of written Notice to Proceed, except as hereafter extended by valid written Change Order by the Owner.

B. Should the Contractor neglect, refuse, or otherwise fail to complete the Work within the time specified, the Contractor agrees to pay to the Owner in partial consideration for the award of this Contract the amount of \_ Five Hundred\_Dollars (\$ 500 ) per consecutive day, not as a penalty, but as liquidated damages for such breach of the Contract.

C. The above prices shall include all labor, materials, removal, overhead, profit, insurance, taxes (not including gross receipts tax), etc., to cover the finished work of the several kinds called for. Changes shall be processed in accordance with the Contract Documents.

D. It is understood that the Owner reserves the right to reject any or all Bids and to waive any technical irregularities in the bidding.

7. The following documents are attached to and made a condition of this Bid:

- A. Bid Security with Agent's Affidavit;
- B. Subcontractors Listing; and,
- C. Other (list):

8. The terms used in this Bid and the Bidding and Contract Documents which are defined in the Conditions of the Construction Contract (General, Supplementary, and Other Conditions), included as part of the Bidding Documents, have the meanings assigned to them in those Conditions.

9. The Bidder is a(n):

**A. INDIVIDUAL;**

By: \_\_\_\_\_  
(Individual's Signature)

Doing business as: \_\_\_\_\_

Business address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: ( \_\_\_\_\_ ) \_\_\_\_\_

FAX: ( \_\_\_\_\_ ) \_\_\_\_\_



**B. PARTNERSHIP:**

By: \_\_\_\_\_  
(Firm Name)

\_\_\_\_\_  
(General Partner's Signature)

Business address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_\_

**C. CORPORATION:**

Corporation Name: \_\_\_\_\_

State of Incorporation: \_\_\_\_\_

By \_\_\_\_\_ Title: \_\_\_\_\_  
(Print Name of Person Authorized to Sign)

\* \_\_\_\_\_  
Signature of Authorized Person

If a New Mexico Corporation: \_\_\_\_\_  
NM Certificate of Incorporation Number

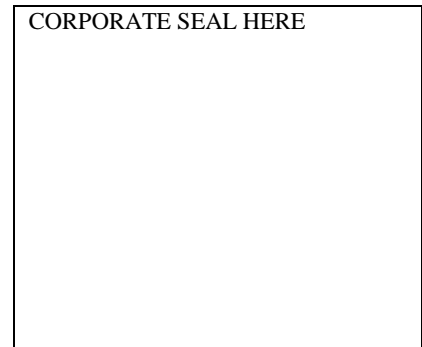
If a Foreign Corporation: \_\_\_\_\_  
NM Certificate of Authority Number

Attest (Secretary): \_\_\_\_\_

Business address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_\_



or,

**D. JOINT VENTURE:**

By \_\_\_\_\_  
(Name)

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_\_

By \_\_\_\_\_  
(Name)

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_\_

By \_\_\_\_\_  
(Name)

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_\_

Each Joint Venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated in the appropriate category.

**BIDDER MUST FILL IN THE FOLLOWING** (if none, write none)

NM License Number \_\_\_\_\_ License Classification: \_\_\_\_\_

Dept. of Workforce Solutions Minimum Wage Act Registration Number  
(DWS #) \_\_\_\_\_

Resident Contractor's Preference Number: \_\_\_\_\_

OR

Veteran Contractor's Preference Number: \_\_\_\_\_

**Please attach a copy of your valid preference certificate to the Bid Form.**

### AGENT'S AFFIDAVIT



THIS FORM MUST  
BE USED BY  
SURETY

(To be filled in by Agent)

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

\_\_\_\_\_, being first duly sworn, deposes and says  
that he /

she is the duly appointed agent for  
and is  
licensed in the State of New Mexico.

Deponent further states that a certain bond was given to indemnify the State of New  
Mexico in connection with the construction of

dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, executed by  
Contractor, as principal, and \_\_\_\_\_, as surety, signed by  
this Deponent; and Deponent further states that said bond was written, signed, and  
delivered by him/her; that the premium on the same has been or will be collected by  
him/her; and that the full commission thereon has been or will be retained by him/her.

=====

Subscribed and sworn to before me, a notary public in and for the County of,  
, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Notary Public

My Commission Expires:

AGENT'S ADDRESS:

Telephone



# LISTING FORM 00 4334 ATTACH TO LETTER OF SUBMITTAL In the Technical Proposal

## SUBCONTRACTOR QUALIFICATIONS QUESTIONNAIRE

**THRESHOLD: \$50,000 OR 5% OF ESTIMATE WHICHEVER IS GREATER**

**DP/AE ESTIMATE OF TOTAL PROJECT COST: \$ 700,000.00**

**QAULIFICATION THRESHOLD FOR THIS PROJECT: \$ 5,000.00**

1. The using agency has the right and requires that the contractor provide subcontractor qualifications from the subcontractors listed below regardless of the value of the subcontract.
2. Also, Per NMAC 1.4.8.12 D. (2): Subcontractor qualification questionnaires shall be required for all subcontractors identified in the Technical Proposal pursuant to the subcontractor listing requirements 1.4.8.13 NMAC, where the value of the subcontract is fifty thousand (\$50,000) or five percent (5%) whichever is greater.

This Subcontractor Questionnaire Listing Form shall be included in the Technical Proposal, in **TAB 2A**. **Note:** Either submit this form or an entire package of all Subcontractor Qualification Statements at time of proposal submission.

Reminder: The General Contractor *may* be given 21 hours from the date and time of the submission of the Request for Proposal, to produce one original plus one copy of the Subcontractor Qualifications Questionnaires listed below to the Procurement Manager.

SUBCONTRACTOR	ENTITY NAME
Mechanical	
Electrical	
Plumbing	
Demolition	
Asbestos Abatement	

**COMBINED  
LIST OF SUBCONTRACTORS  
and  
ASSIGNMENT OF ANTITRUST CLAIMS  
by  
CONTRACTOR, SUBCONTRACTORS,  
SUBSUBCONTRACTORS, and SUPPLIERS**

**EXAMPLE TRADES AND SUPPLIERS:** SITE WORK, CONCRETE, MASONRY, FRAMING, LUMBER, STEEL, STEEL FABRICATION, ROOFING, EXTERIOR INSULATION AND FINISH, DRYWALL, DOORS, GLASS AND GLAZING, PLASTER, PAINTING, CARPET, RESILIENT, CONVEYING SYSTEMS, HVAC, CONTROLS, PLUMBING, SHEET METAL, ELECTRICAL

**1.** Subcontractor Listing shall be included with Bid as a condition of the Bid and be fully complete with regards to all Subcontractors providing services valued at \$5,000.00 or more, or one-half of one percent of the architect's or engineer's estimate of the total project cost, not including alternates, whichever is greater pursuant to Section 13-4-34, NMSA 1978.

Listing Threshold for this Project: \$5,000.00

**a.** Subcontractor Listing shall be expanded after Bid by apparent low bidder if Awarded, and before Contract, to include major Suppliers and, each entity listed shall be signed by individual empowered to obligate Supplier, Subcontractor, or Subsubcontractor.

**b.** Subcontractor Listing shall also be expanded after Bid by apparent low bidder if Awarded, and before Contract, to include the Department of Workforce Solutions labor enforcement fund registration number. See the Department of Workforce Solutions web site at [www.dws.state.nm.us](http://www.dws.state.nm.us) under "Public Works" for registration form, listings and information.

**c.** See Instructions to Bidders, Section 00 2113 Paragraph 4.5, Subcontractors, for rules regarding changes in this list after bidding.

**2.**

**PROJECT NAME:** SACRAMENTO ELEMENTARY SCHOOL DEMOLITION

**INVITATION TO BID NUMBER:** 010-2021

The undersigned agrees that any and all claims which the firm may have or may inure to it for overcharges resulting from antitrust violations as to goods, services, and materials purchased in connection with the above-referenced project are hereby assigned to the Owner, but only to the extent that such overcharges are passed on to the Owner. It is agreed that the firm retains all rights to any such antitrust claims to the extent of any overcharges not passed on to the District, including the right to any treble damages attributable thereto.

INVITATION TO BID NUMBER:  
010-2021

Sealed bid opening date:  
July 20, 2020  
 ALAMOGORDO PUBLIC  
 SCHOOLS

# Subcontractor Listing

\*Signature not required until after Bid but before Award

TYPE OF WORK	ENTITY NAME	CITY & STATE	Labor enforcement fund registration # (if over \$60,000)	SIGNATURE *
SITE WORK				
CONCRETE				
MASONRY				
FRAMING				
STEEL ERECTION				
ROOFING				
INSULATION				
DRYWALL				
GLAZING				
PLASTER				
FLOORING				
PAINTING				
FURNISHINGS				
LANDSCAPE				
ELEVATOR				
HVAC				
CONTROLS				
PLUMBING				
ELECTRICAL				
SPECIAL SYST.				
DEMOLITION				
ASBESTOS ABATEMENT				





## PREQUALIFICATION

### GENERAL

The Contractor represents to the Owner that the Contractor:

1. is financially solvent, able to pay debts, and has sufficient working capital to complete the Work;
2. is able to furnish the plant, tools, materials, supplies, equipment, skilled labor and sufficient experience and competence required to complete the Work equal to or exceeding industry standards;
3. shall, prior to bid, be properly licensed according to the requirements of the Construction Industries Licensing Act, Chapter 60, Article 13 NMSA 1978 and ensures to the Owner that such license shall remain in effect for the duration of the Work and warranty periods that the Contractor is authorized and properly licensed to do business in the State of New Mexico and in the locale where the Work is located;
4. execution of the agreement and performance thereof is within the Contractor's duly authorized powers; and
5. or assigns have visited the site of Work and has become familiar with the conditions under which the Work is to be performed, obtained all available information and have correlated observations and acquired information with the requirements of the Contract Documents including conditions:
  - a) bearing upon access to the site, accommodations required, transportation, disposal, handling and storage;
  - b) affecting availability of labor, materials, equipment, water, electricity, utilities and roads;
  - c) such as weather, river stages, flooding;
  - d) related to the apparent form and nature of the Work site, including the surface and sub-surface conditions; and,
  - e) that in general would be deemed by a prudent contractor to be material to the Work as to assess risk, contingencies and other circumstances;
6. has completed prior contracts with diligent and continuous effort and has been responsive to post-occupancy corrections.

### PREQUALIFICATION FORMS

Not required.

### DEBARRED OR SUSPENDED CONTRACTORS

A business (contractor, subcontractor, or supplier) that has either been debarred or suspended pursuant to the requirements of Sections 13-1-177 through 13-1-180 and 13-4-11 through 13-4-17, NMSA 1978 as amended, shall not be permitted to do business with the State and shall not be considered for award of contract during the period for which it is debarred or suspended.

**Return completed form to address below:**

State of New Mexico, PSFA  
Contracts Administrator  
1312 Basehart Road, SE  
Suite 200  
Albuquerque, NM 87106  
Phone (505) 843-6272  
Fax: (505) 988-5933

**Form available on PSFA web site at:**

[http://www.nmpsfa.org/pdf/Admin/W9\\_Vendor\\_Authorization\\_Form.pdf](http://www.nmpsfa.org/pdf/Admin/W9_Vendor_Authorization_Form.pdf)



STATE OF NEW MEXICO  
Taxation and Revenue Department



APPLICATION FOR PREFERENCE

GENERAL INSTRUCTIONS PLEASE READ BEFORE COMPLETING

Sections 13-1-21 and 13-1-22 NMSA 1978 authorize and set forth the criteria required for a business to qualify as a Resident Business or Resident Contractor. It is important to note, a resident preference is applicable to contracts, which typically call for, but are not limited to, the furnishing of tangible personal property, i.e. goods, supplies, materials, equipment, printed materials and certain services.

A "resident preference" is applicable only to procurements made pursuant to a formal bid process or formal Request For Proposals (RFP) process in accordance with Sections 13-1-21 and 13-4-2 NMSA 1978. Additionally, any person, firm, corporation, or other legal entity must have all required licenses at the time the application for preference is submitted to the Taxation and Revenue Department for consideration.

**Please note:** All certifications are subject to revocation in accordance with applicable rules. A certification merely establishes that the Taxation and Revenue Department has determined based upon the information provided in the application, as of the date of issuance, that the holder was entitled to treatment as a resident business and/or contractor by state agencies and local public bodies.

The attached application for preference is required by Section 13-1-22 NMSA 1978 as amended during the First Special Legislative Session of 2011. The application includes an **affidavit from a certified public accountant** setting forth certain eligibility criteria for businesses or contractors, as required by Section 13-1-22 NMSA 1978. The completed **application along with payment of Thirty Five (\$35) dollars** must be submitted to the Taxation and Revenue Department prior to issuance of a resident business preference or a resident contractor preference certificate.

In addition to the application, the Taxation and Revenue Department may require submission of additional information to ensure eligibility.

A certificate is valid for three (3) years from the date of its issuance; provided that if there is a change of ownership of more than fifty percent, a resident business or resident contractor shall reapply.

For questions concerning the application process please call (505) 827-0951. The application along with payment should be sent to:

New Mexico Taxation and Revenue Department  
Santa Fe District Office  
PO Box 5374  
Santa Fe, NM 87502-5374





# STATE OF NEW MEXICO

## Taxation and Revenue Department



### APPLICATION FOR RESIDENT VETERAN CONTRACTOR CERTIFICATION

SECTION I			General Information
Name of Licensed Contractor		Doing Business As (DBA) if applicable	
Mailing Address - City, State, Zip Code			
Physical Address - City, State, Zip Code			
Name of Business Owner or Officer	Phone Number of Business Owner or Officer	E-mail of Business Owner or Officer	
Name of Business Contact	Phone Number of Business Contact	E-mail of Business Contact	
NM(CRS) Number:	Contractor License Number	FEIN/SSN	
VIN of Vehicle Registered by Contractor with New Mexico		Name of Vehicle Owner	
SECTION II			Resident Veteran Contractor Status Information
<p><b>Please choose the relevant business status category below and place a checkmark next to all statements that apply to the applicant's business under the relevant category. If any statement under the relevant category is not appropriate to or does not otherwise describe the applicant's business, it may not qualify for certification.</b></p>			
<b>Existing Contractor</b>			
<input type="checkbox"/> The contractor has been in existence for at least five years; <b>and</b> <input type="checkbox"/> The contractor is licensed as a contractor in New Mexico; <b>and</b> <input type="checkbox"/> The contractor has paid property taxes or rent on real property in New Mexico in <i>each</i> of the preceding five years; <b>and</b> <input type="checkbox"/> The contractor has paid at least one other tax administered by the State of New Mexico in <i>each</i> of the preceding five years; <b>and</b> <input type="checkbox"/> The contractor has paid unemployment insurance on at least three full-time New Mexico resident employees in <i>each</i> of the preceding five years <b>or</b> the contractor has been licensed as a contractor in New Mexico for ten consecutive years.			
<b>New Contractor</b>			
<input type="checkbox"/> The contractor did not exist as a business in any form and has been in existence for less than five years; <b>and</b> <input type="checkbox"/> The contractor is currently licensed as a contractor in New Mexico; <b>and</b> <input type="checkbox"/> The owner or majority of owners of the business have paid property taxes or rent on real property in New Mexico in <i>each</i> of the preceding five years; <b>and</b> <input type="checkbox"/> The owner or majority of owners of the business have paid at least one other tax administered by the State of New Mexico in <i>each</i> of the preceding five years; <b>and</b> <input type="checkbox"/> This contractor has not applied for a Resident Business Certificate or Resident Contractor Certificate during the preceding five years.			
<b>Relocated Contractor</b>			
<input type="checkbox"/> The contractor moved at least eighty (80%) percent of its total domestic personnel from another state to New Mexico in the past five years; <b>and</b> <input type="checkbox"/> The contractor is currently licensed as a contractor in New Mexico; <b>and</b> <input type="checkbox"/> Eighty (80%) percent or more of the total personnel of the business in the prior year were residents of New Mexico; <b>and</b> <input type="checkbox"/> The business has leased real property in New Mexico for ten years; <b>or</b> The business has purchased real property in New Mexico valued in excess of \$100,000.			

<b>Previously Certified Contractor or a Contractor Previously Eligible for Certification</b>			
<input type="checkbox"/> The contractor is licensed as a contractor in New Mexico; <b>and</b> <input type="checkbox"/> After January 1, 2012, but less than three years ago, the contractor obtained and was eligible for resident contractor certification. However, the contractor has since: (1) changed its name; (2) reorganized into one or more different legal entities; or (3) been purchased by or merged with another legal entity, but now operates in New Mexico as substantially the same commercial enterprise;  <p style="text-align: center;"><b>OR</b></p> After January 1, 2012, but less than three years ago, the contractor applied and was eligible for resident contractor certification. However, before the Department was able to issue certification, the business: (1) changed its name; (2) reorganized into one or more different legal entities; or (3) was purchased by or merged with another legal entity, but now operates in New Mexico as substantially the same commercial enterprise.			
<b>SECTION III Annual Revenue and Documentation</b>			
Please provide the business' previous year's annual revenues below and attach the required documents. If the required documents are attached, please place a checkmark next to the second statement below. An application submitted without the required information and documentation will be incomplete.			
<input type="checkbox"/> The previous year's annual revenues of the resident veteran business are \$ _____; <b>and</b> <input type="checkbox"/> Attached to this application is verification by the Federal Dept. of Veterans Affairs that the business is either a veteran-owned small business or a service-disabled veteran-owned small business;  <p style="text-align: center;"><b>OR</b></p> Attached to this application is proof that a veteran or veterans own a majority of the business <b>and</b> verification of either (1) veteran status as indicated by the U.S. Dept. of Defense DD Form 214 of release or discharge from active duty with an honorable discharge <b>or</b> (2) service disabled-veteran status by the Dept. of Veterans Affairs.  <p style="text-align: center;"><b>AND</b></p> <input type="checkbox"/> Any applicant provided a certificate of Resident Veterans Preference by the Taxation and Revenue Department as either a business or a contractor under the provisions of Sections 13-1-21 or 13-1-22 NMSA 1978, agrees that when awarded a contract involving a Veterans Preference during the last calendar year beginning on January 1 and ending on December 31, to report the award amount involved to the State Purchasing Division of the General Services Department. The report will be given under the penalty of perjury and indicate whether the awarded amount was as a purchase from a public body, or as a public works contract from a public body, as the case may be.			
<b>SECTION IV Affidavit</b>			
<b>AFFIDAVIT FROM CERTIFIED PUBLIC ACCOUNTANT</b>			
STATE OF _____  COUNTY OF _____		I hereby swear, <u>under oath</u> that it is my professional opinion that the applicant meets the required criteria set forth in NMSA 1978, Section 13-1-22 (2012) for Resident Veteran Business Certification and that ALL information provided and ALL checkmarked statements in the foregoing application are true and complete to the best of my knowledge.	
Name	CPA License #	State	Date
Signature			
<b>NOTARY</b>			
Subscribed and sworn to before me this _____ day of _____, 20 _____.			
Notary Public _____ <small>(NOTARY SEAL)</small>		My Commission Expires _____	
I am authorized to sign this application on behalf of the applicant and attest to the truthfulness of the information provided herein.			
Signature of Applicant			Date
<b>Please see last of instructions; APPLICATION AND FEE SUBMISSION for correct mailing address and fee.</b>			





**SECTION IV****Affidavit**

This portion of the form is a sworn statement by the CPA indicating that the statements selected in Section II are accurate descriptions of the contractor, and that all other information provided in the form is true and correct to the best of the CPA's knowledge. The affidavit also provides a sworn statement that it is the CPA's professional opinion that the contractor meets the required criteria for resident veteran contractor certification.

The contractor, officer of the contractor business or the contractor's authorized representative must also sign the application, affirming that the statements made and information provided in the application are true and correct.

**APPROVALS AND PENALTIES**

TRD will examine the application and affidavit. If necessary, TRD may seek additional information to ensure the contractor's eligibility. If TRD determines that the contractor is eligible, it will issue a certificate to the contractor. If TRD determines that the contractor is not eligible, it will issue notification within 30 days. If such notification is not provided by the Department, the application is deemed approved.

A certificate is valid for three years from the date of issuance; provided that if there is a change of ownership of more than 50%, the applicant must reapply. A contractor must also reapply if it has changed its name, reorganized into one or more different legal entities or was purchased by or merged with another legal entity, but now operates in New Mexico as substantially the same commercial enterprise. In such a case, the certification of the contractor in its previous form will apply three years from the date of the previous certification, but only to the extent the contractor was eligible for certification in its previous form.

If an application is denied, the business has 15 days from the date of the denial to file an objection with TRD, submitting evidence to support the objection. TRD must review the evidence and issue a response to the objection within 15 days of the filing of the objection.

If following a hearing and an opportunity to be heard, TRD finds that a contractor provided false information to TRD in order to obtain a certificate or that a contractor used a certificate to obtain a preference and the contractor did not perform the percentage of the contract specified in the bid or proposal, the business:

1. Is not eligible to receive a certificate or preference for a period of five years from the date on which TRD became aware of the submission of the false information or the failure to perform the contract as specified in the bid or proposal; and
2. Is subject to an administrative penalty of up to \$50,000 for each violation.

**REVOCATIONS**

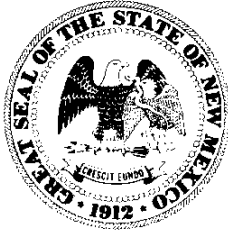
TRD will contemplate revoking an issued certificate if information is revealed that the holder's situation has changed and/or the business does not qualify as a resident veteran contractor. If TRD contemplates revocation, it will issue a Notice of Contemplated Action to the contractor. The contractor will be provided with an opportunity to request an administrative hearing on the matter.

**APPLICATION AND FEE SUBMISSION**

Submit the application along with \$35 application fee to:

New Mexico Taxation and Revenue Department  
Santa Fe District Office  
PO Box 5374  
Santa Fe, NM 87502-5374

For questions concerning the application process please call (505) 827-0951.



STATE OF NEW MEXICO

**ALAMOGORDO PUBLIC SCHOOLS**  
In Collaboration With  
**PUBLIC SCHOOL CAPITAL OUTLAY**  
**PUBLIC SCHOOL FACILITIES AUTHORITY**  
Santa Fe, New Mexico 87502

**MICHELLE LUJAN GRISHAM**  
GOVERNOR

**JOE GUILLEN**  
CHAIR

**JONATHAN CHAMBLIN**  
EXECUTIVE DIRECTOR

## NOTICE OF INTENT TO AWARD

TO:

DATE:

PROJECT: Sacramento Elementary School  
Demolition

PROJECT NO. S19-001

ITB REF NO. 010-2021

Ladies and Gentlemen:

THIS IS NOT AN AWARD. This letter is to advise you that the ALAMOGORDO PUBLIC SCHOOLS School District is still considering the Apparent Low Bid offer with the intent to award the Project to you when all considerations and approvals are complete. Without authorizing you to incur any costs or obligation, with the exception of Building Permit Cost, the ALAMOGORDO PUBLIC SCHOOLS School District would like you to proceed with administrative procedures such as application for Building Permit, submittals and the like in anticipation of the Award and to minimize the time to Project start-up.

### OTHER CONDITIONS PRECEDENT

None

You are reminded that at Notice to Award, but not at this time, you will be asked to produce, along with executed Agreement the following within ten (10) calendar days of that notice:

The Performance Bond, Labor and Material Payment Bond; Agent's Affidavit; Subcontractors List including contract amount of each, evidence of required bonds, costs of each bond, and beneficiary of each bond; evidence of DOL registration, evidence of CID licensure; Assignment of Antitrust Claims (required for the Contractor, all Subcontractors, and all Suppliers); Certificate of Insurance; State W-9; evidence of other bonds or documents as specified in the Bidding Documents; and, Schedule of Values.

Prior to the first Payment Application, the Project Schedule will be required and prior to the second Payment Application, a schedule of submittals will be required.

Chief Procurement Officer  
District Representative

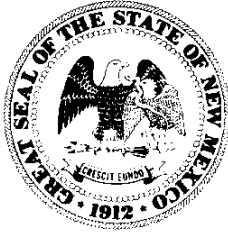
Distribution to:

- District Purchasing Agent (original)
- Design Professional of Record (copy)
- PSFA Contracts Administrator (copy)

**NOTICE OF INTENT TO AWARD**

**00 5101 - 1**

- Other Bidders (copy)
- Other\_\_\_\_\_



STATE OF NEW MEXICO

**ALAMOGORDO PUBLIC SCHOOLS**  
In Collaboration With  
**PUBLIC SCHOOL CAPITAL OUTLAY  
PUBLIC SCHOOL FACILITIES AUTHORITY**  
Santa Fe, New Mexico 87505

**MICHELLE LUJAN GRISHAM**  
GOVERNOR

**JOE GUILLEN**  
CHAIR

**JONATHAN CHAMBLIN**  
EXECUTIVE DIRECTOR

## NOTICE OF AWARD

TO:

DATE:

PROJECT: Sacramento Elementary School  
Demolition

PROJECT NO. S19-001

ITB REF NO. 010-2021

Ladies and Gentlemen:

This letter is to advise you that the ALAMOGORDO PUBLIC SCHOOLS, in conjunction with the Public School Capital Outlay Council – Public School Facilities Authority (PSFA), approved award of the construction contract to your firm for:

The Contract Price is as follows:

	Description	Amount: (General Contract)	Amount: (Other separate contract)
Bid Lot 1:Base Bid Amount:		\$	
Bid Lot 2: Asbestos Abatement		\$	
Total Contract Amount:		\$	

Two (2) counterparts of each of the proposed Contract Documents (except Drawings) will be provided to you by the District for execution. Five sets of the Drawings will be delivered separately or otherwise made available to you by the Design Professional of Record.

You must comply with the following conditions within ten (10) calendar days of the date of this Notice of Award, that is, by

1. You must deliver to the Owner two fully executed counterparts of the Agreement, including all Contract Documents. Each of the Contract Documents must bear your signature on the appropriate page. Provide both your State of New Mexico and Federal Tax Identification Numbers on the signature page.
2. You must deliver with the executed Agreement; the Contractor's Performance Bond, Labor and Material Payment Bond; Agent's Affidavit; Subcontractors List including contract amount of each, evidence of required bonds, costs of each bond, and beneficiary of each bond, evidence of DWS registration, evidence of CID licensure; Assignment of Antitrust Claims (required for the Contractor, all Subcontractors, and all Suppliers); Certificate of Insurance; State W-9; evidence of other bonds or documents as specified in the Bidding Documents; and, Schedule of Values; and,
3. OTHER CONDITIONS PRECEDENT (if none, write none)

---

Failure to comply with these conditions within the time specified will entitle the Owner to consider your bid abandoned, to annul this Notice of Award, and to declare your bid security forfeited.

Within thirty (30) days after you comply with these conditions, the Owner will return to you one fully signed counterpart of the Agreement with the Contract Documents attached.

You are reminded that prior to the first Payment Application, the Project Schedule will be required and prior to the second Payment Application, a schedule of submittals will be required.

By: \_\_\_\_\_

CHIEF PROCUREMENT OFFICER  
DISTRICT REPRESENTATIVE  
ALAMOGORDO PUBLIC SCHOOLS

By: \_\_\_\_\_  
SCOTT FICKLIN  
PSFA REGIONAL MANAGER

Distribution to:

- District Purchasing Agent (original)
- Design Professional of Record (copy)
- PSFA Sr. Construction Manager (copy)
- PSFA Contracts Administrator (copy)
- Other \_\_\_\_\_

# Agreement between the Owner and the Contractor

2019 Edition, Version 3.5

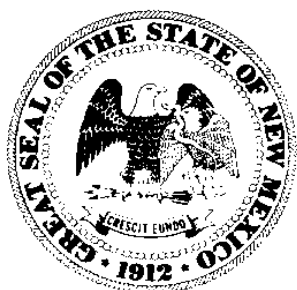
THIS DOCUMENT HAS IMPORTANT LEGAL CONSEQUENCES; CONSULTATION WITH AN ATTORNEY IS ENCOURAGED WITH RESPECT TO ITS COMPLETION

Project (short title): SACRAMENTO ELEMENTARY SCHOOL Contract No.: 010-2021  
DEMOLITION

Location: ALAMOGORDO, NM

PSFA Project No.: S19-001

Distribution to:



- District Representative (original)
- Contractor (original)
- Design Professional (copy)
- PSFA Regional Manager (copy)
- PSFA Contracts Administrator (copy)
- Other \_\_\_\_\_

This Agreement entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between the parties as follows:

**THE OWNER:**

ALAMOGODO PUBLIC SCHOOL  
1211 HAWAII AVENUE  
ALAMOGORDO, NM 88310  
Telephone: (575) (812-6065)  
Fax: (575) (812-6049)

**THE CONTRACTOR:**

(NAME OF FIRM)  
(ADDRESS 1)  
(ADDRESS 2)  
(CITY/TOWN), NM (ZIP CODE)  
Telephone: (505) (PHONE)  
Fax: (505) (FAX NUMBER)

and, hereinafter "Owner" and,  
PSFA  IS  IS NOT a Co-Owner in this Agreement.

**CO-OWNER with OVERSIGHT:**

PUBLIC SCHOOL FACILITIES AUTHORITY  
1312 BASEHART ROAD, SE  
SUITE 200  
ALBUQUERQUE, NM 87106  
Telephone: (505) (843-6272)  
Fax: (505) (843-9681)

**DESIGN PROFESSIONAL OF RECORD:**

RAY VIGIL, AIA  
VIGIL & ASSOCIATES, P.C.  
1765 AVENIDA AVENIDA DE MERCADO  
LAS CRUCES, NM 88005  
Telephone: (575) (527-0400)  
Fax: (505) (890-5031)

## RECITALS

WHEREAS The Public School Capital Outlay Council (PSCOC) allocated funding from the Public School Capital Outlay Fund for the above referenced project on \_\_\_\_\_, 20\_\_;

WHEREAS, the District, otherwise known as the Owner, has entered into Agreement with the PSCOC and its Public School Facilities Authority (PSFA) to act as Co-Owner, oversee and manage the work and make direct payment of Owner-approved expenses;

WHEREAS, the Owner may also oversee and manage the work and make direct payment of Owner-approved expenses in collaboration and agreement with the PSFA;

WHEREAS the Owner, through its School Board, is authorized to enter into a construction contract for the Project pursuant to Sections 13-1-100 and 22-5-4, NMSA 1978; and

WHEREAS the Owner has let this contract according to the established State purchasing procedures for contracts of the type and amount let.

The OWNER and the CONTRACTOR agree as set forth below.

## ARTICLE 1

### THE CONTRACT DOCUMENTS

The Contract Documents consist of the following:

Bid Form	Notice to Proceed
Agreement Between Owner and Contractor	Conditions of the Contract (General, Supplementary, and Other Conditions)
Performance Bond	Drawings
Labor and Material Payment Bond	Specifications
Agent's Affidavit	All Addenda Issued Prior to and All Modifications Issued after Execution of This Agreement
Certificate of Insurance	
Assignment of Antitrust Claims	
Notice of Award	

These documents form the Contract, and all are as fully a part of the Contract as if attached to this Agreement or repeated herein. An enumeration of the Contract Documents appears in Article 7.



## **ARTICLE 2**

### **THE WORK**

The Contractor shall perform all the Work required by the Contract Documents for the following:

The entire work entitled: Sacramento Elementary School Demolition as outlined in the Project Drawings, and Specifications.

The Base Bid will include but not limited to the asbestos abatement, demolition & removal of the existing 1 story approximately 50,000 sq.ft. elementary school building on; demolition included structure, foundation, utilities and other site elements in preparation for future site improvements. The site will be backfilled at the removed foundation to new finish grade matching approximately elevation of existing site to prevent ponding at existing building area. Abatement will be performed under a separate contract, and coordinated with contractor. The owner may remove items from existing building prior to the start of work.

There will be not additive alternates in the project.

**ARTICLE 3**

**TIME OF COMMENCEMENT AND SUBSTANTIAL COMPLETION**

The Work to be performed under this Contract shall commence not later than ten (10) consecutive calendar days after the date of written Notice to Proceed. Substantial Completion shall be achieved not later than One Hundred Twenty (120) calendar days after the date of written Notice to Proceed, except as hereafter extended by valid written Change Order by the Owner.

Should the Contractor neglect, refuse, or otherwise fail to complete the Work within the time specified for Substantial Completion, the Contractor agrees, in partial consideration for the award of this Contract, to pay to the Owner the amount of Five Hundred Dollars (\$500) per consecutive calendar day, not as a penalty, but as liquidated damages for such breach of this Contract.

**ARTICLE 4**

**CONTRACT SUM**

The Owner shall pay the Contractor in current funds for the performance of the Work, subject to additions and deductions by Change Order as provided in the Contract Documents, the Contract Sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

The Contract sum is determined as follows:

	<b>STATE TO ADEQUACY 0.00%</b>	<b>DISTRICT TO ADEQUACY 0.00%</b>	<b>DISTRICT ABOVE ADEQUACY 100.00%</b>	<b>TOTAL</b>
Bid Lot 1 - Base Bid Amount	\$ -	\$ -	\$ -	\$ -
Bid Lot 2 - Amount	\$ -	\$ -	\$ -	\$ -
Award Amount	\$ -	\$ -	\$ -	\$ -
Gross Receipts Tax @ 8.0000%	\$ -	\$ -	\$ -	\$ -
<b>Contract Sum</b>	\$ -	\$ -	\$ -	\$ -

Breakdown of required labor, material and performance and payment bond costs.

Total cost of Contractor bond\* .....\$  
 Total cost of all Subcontractor bonds .....  
 Total cost of all project bonds.....\$

\*Contractor labor, material and performance and payment bond costs shall be calculated on Award Amount exclusive of GRT.

**ARTICLE 5**

## **PROGRESS PAYMENTS**

Based upon Applications for Payment submitted to the Design Professional by the Contractor and Certificates for Payment issued by the Design Professional, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided in the Contract Documents for the period ending the last day of the month as follows:

Not later than twenty-one (21) days following the end of the period covered by the Application for Payment of the portion of the Contract Sum properly allocable to labor, materials, and equipment incorporated in the Work and the portion of the Contract Sum properly allocable to materials and equipment suitably stored at the site or some other location agreed upon in writing for the period covered by the Application for Payment, less the aggregate of previous payments made by the Owner; less such amounts as the Design Professional shall determine for all incomplete Work and unsettled claims as provided in the Contract Documents.

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at the rate provided by State statute regulating prompt payment.

## **ARTICLE 6**

### **FINAL PAYMENT**

Final payment, constituting the entire unpaid balance of the Contract Sum, shall be paid by the Owner to the Contractor within thirty (30) calendar days after notification of the Owner by the Design Professional that all incomplete and unacceptable work that was noted during the Substantial Completion Inspection and listed on the attachment to the Certificate of Substantial Completion has been corrected, and provided the Contract has been fully performed, a Certificate for Final Completion and final Certificate for Payment has been issued by the Design Professional; and the Contractor has provided to the Owner a certified statement of Release of Liens (AIA Document G706A or approved form) and Consent of Surety and such other documents required by the General Conditions.

## **ARTICLE 7**

### **GENERAL AND SPECIAL PROVISIONS**

**7.1** This document shall be executed in no less than five (5) counterparts, each of which shall be deemed an original.

#### **7.2 Owner Provided Insurance.**

See General Conditions for the Contract for Construction. Builder's Risk insurance to be provided by the Contractor. The Owner will not provide Builder's Risk.

**7.2.1 Property Insurance/Builder's Risk.** Contractor shall provide insurance which will protect the interests of the Contractor and Subcontractors in the Work. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and

entities who are beneficiaries of such insurance, or until no person or entity other than the Owner has an insurable interest in the property required by this Paragraph to be covered, whichever is later. This insurance shall include interests of the Owner, the Contractor, and Subcontractors in the Project.

**7.3** This Agreement shall be governed exclusively by the provisions hereof and by the laws of the State of New Mexico as the same from time to time exist.

**7.4** Terms used in this Agreement which are defined in the Conditions of the Contract shall have the meanings designated in those Conditions.

**7.5** As between the parties to this Agreement: As to all acts or failures to act by either party to this Agreement, any applicable statute of limitations shall commence to run and any alleged cause of action shall be deemed to have accrued in any and all events not later than the relevant Date of Substantial Completion of the Work; and as to any acts or failures to act occurring after the relevant Date of Substantial Completion, not later than the date of the Owner's approval of the Final Certificate of Payment.

**7.6** The Contractor shall hold harmless and indemnify the Owner against any and all injury, loss, or damage, including cost of defense - including but not limited to court costs and attorneys' fees - arising out of the negligent acts, errors, or omissions of the Contractor.

**7.7** This Agreement shall not become effective until:  
**A.** approved by the Public School Facilities Authority; and,  
**B.** signed by all parties required to sign this Agreement.

**7.8** The Contractor and his agents and employees are independent contractors and are not employees of the Owner or the State of New Mexico. The Contractor and his agents and employees shall not accrue leave, retirement, insurance, bonding, use of State vehicles, or any other benefits afforded to employees of the Owner or the State of New Mexico as a result of this Agreement.

**7.9** The Contractor, upon Final Payment of the amounts due under this Agreement, releases the Owner, his officers and employees, and the State of New Mexico from his liabilities and obligations arising from or under this Agreement, including but not limited to all damages, losses, costs, liability, and expenses, including but not limited to attorneys' fees and costs of litigation that the Contractor may incur.

**7.10** The Contractor agrees not to purport to bind the Owner or the State of New Mexico to any obligation not assumed herein by the Owner or the State of New Mexico unless the Contractor has express written authority to do so, and then only within the strict limits of that authority.

**7.11 Notices.** All notices herein provided to be given, or which may be given, by either party to the other shall be deemed to have been fully given when made in writing and deposited in the United States mail postage prepaid, in the instance of Notice of Termination of Work, Certified Mail, Federal Express, or similar verifiable delivery method addressed as follows:

OWNER: ALAMOGORDO PUBLIC SCHOOLS  
CHIEF PROCUREMENT OFFICER  
1211 HAWAII AVENUE  
ALAMOGORDO, NM 88310

CONTRACTOR: (NAME OF COMPANY)  
(ADDRESS 1)  
(ADDRESS 2)  
(CITY/TOWN), NM (ZIP CODE)

Nothing herein contained shall preclude the giving of any such written notice by personal service. The address to which notices shall be mailed to either party may be changed by written notice given by such party to the other as herein above provided.

**7.12 Gender, Singular/Plural.** Words of any gender used in this Agreement shall be held and construed to include any other gender, and words in the singular number shall be held to include the plural, unless the context requires otherwise.

**7.13 Captions and Section Headings.** The captions and section headings contained in this Agreement are for convenience of reference only, and in no way limit, define, or enlarge the terms, scope, and conditions of this Agreement.

**7.14** This document shall be executed in no less than five (5) counterparts, each of which shall be deemed an original.

**7.15 Certificates and Documents Incorporated.** All certificates and documentation required of the Contractor by the provisions of this Agreement shall be attached to this Agreement at the time of execution and are hereby incorporated by reference as though set forth in full in this Agreement to the extent they are consistent with its conditions and terms.

**7.16 Separability.** If any clause or provision of this Agreement is illegal, invalid, or unenforceable under present or future laws effective during the term of this Agreement, then and in that event it is the intention of the parties hereto that the remainder of this Agreement shall not be affected thereby.

**7.17 Waiver.** No provision of this Agreement shall be deemed to have been waived by either party unless such waiver be in writing signed by the party making the waiver and addressed to the other party; nor shall any custom or practice which may evolve between the parties in the administration of the terms hereof be construed to waive or lessen the right of either party to insist upon performance by the other party in strict accordance with the terms hereof. Further, the waiver by any party of a breach by the other party of any term, covenant, or condition hereof shall not operate as a waiver of any subsequent breach of the same or any other term, covenant, or condition thereof.

**7.18 Entire Agreement.** This Agreement represents the entire contract between the parties and, except as otherwise provided herein, may not be amended, changed, modified, or altered without the written consent of the parties hereto. This Agreement incorporates all of the conditions, agreements, and understandings between the parties concerning the subject matter of this Agreement, and all such conditions, understandings, and agreements have been merged into this written Agreement. No prior condition, agreement, or understanding, verbal or otherwise, of the parties or their agents shall be valid or enforceable unless embodied in this written Agreement.

**7.19 Interchangeable Terms.** For purposes of all provisions within this Agreement and all attachments hereto, the terms "Agreement" and "Contract" shall have the same meaning and shall be interchangeable.

**7.20 Words and Phrases.** Words, phrases, and abbreviations which have well-known technical or trade meanings used in the Contract Documents shall be used according to such recognized meanings. In the event of a conflict, the more stringent meaning shall govern.

**7.21 Relationship of Contract Documents.** The Contract Documents are complementary, and any requirement of one contract document shall be as binding as if required by all.

**7.22** Pursuant to Section 13-1-191, NMSA 1978, reference is hereby made to the Criminal Laws of New Mexico (including Sections 30-14-1, 30-24-2, and 30-41-1 through 3, NMSA 1978) which prohibit bribes, kickbacks, and gratuities, violation of which constitutes a felony. Further, the Procurement Code (Sections 13-1-28 through 13-1-199, NMSA 1978) imposes civil and criminal penalties for its violation.

**7.23** The Contract Documents, which constitute the entire Agreement between the Owner and the Contractor, are listed in Article 1 and, except for Modifications issued after execution of this Agreement, are enumerated in this Paragraph 7.21.

**7.24.1** The following documents bound in the Project Manual dated: March 27, 2020

## **DOCUMENTS**

### Division 00 – Procurement and Contracting Requirements

- 00 4113 Bid Form
- 00 4336 Combined Subcontractor Listing and Assignment of Antitrust Claims
- 00 5101 Notice of Intent to Award
- 00 5102 Notice of Award
- 00 5213 Agreement between Owner and Contractor
- 00 5501 Notice to Proceed
- 00 6113 Performance Bond
- 00 6114 Labor and Material Payment Bond
- 00 6129 Agent's Affidavit – Construction Contract Bonds
- 00 6131 Bond Review Form – Construction Contract Bonds
- 00 6216 Certificate of Insurance
- 00 7200 General Conditions of the Contract
- 00 7300 Supplementary Conditions
- Addenda and Modifications

## **SPECIFICATIONS**

### Division 01 - General Requirements

- 01 1000 Summary
- 01 3100 Project Management and Coordination
- 01 3300 Submittal Procedures

- 01 3301 Submittal Transmittal Form
- 01 4000 Quality Requirements
- 01 5000 Temporary Facilities and Controls
- 01 5001 Project Sign
- 01 6300 Product Substitution Procedures
- 01 6301 Prior Approval Substitution Form
- 01 6302 Contractor Substitution Request form
- 01 7000 Execution Requirements
- 01 7700 Closeout Procedures
- 01 7800 Closeout Submittals

Division \_\_\_\_\_

**7.24.3** The following Drawings, dated \_\_\_\_\_

Title Sheet

Civil C

Structural S

Architectural A

Mechanical M

Plumbing P

Electrical E

Other (list)

**7.24.3 Addenda**

No. \_\_\_\_\_ Description \_\_\_\_\_ Date \_\_\_\_\_

No. \_\_\_\_\_ Description \_\_\_\_\_ Date \_\_\_\_\_

No. \_\_\_\_\_ Description \_\_\_\_\_ Date \_\_\_\_\_

No. \_\_\_\_\_ Description \_\_\_\_\_ Date \_\_\_\_\_

**END OF ARTICLE 7**



Contract No.:

PSFA Project No.: S19-001

---

**AGREED: This Agreement is entered into as of the day and year first written above.**

**CONTRACTOR**

By:  
Printed Name:  
Title:

Date:

Federal Identification Number:  
NM CRS Identification Number:

**OWNER:**

By:  
Printed Name:  
Title: District Representative

Date:

---

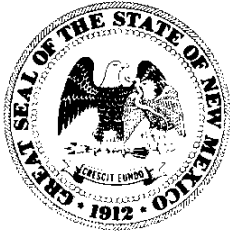
**APPROVED: This Agreement is entered into as of the day and year first written above.**

**PUBLIC SCHOOL FACILITIES AUTHORITY**

By:  
Printed Name:  
Title: -

Date:

# AGENT'S AFFIDAVIT



THIS FORM MUST  
BE USED BY  
SURETY

(To be filled in by Agent)

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

\_\_\_\_\_, being first duly sworn, deposes and says  
that he /

she is the duly appointed agent for  
and is  
licensed in the State of New Mexico.

Deponent further states that a certain bond was given to indemnify the State of New  
Mexico in connection with the construction of  
dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, executed by  
Contractor, as principal, and \_\_\_\_\_, as surety, signed by  
this Deponent; and Deponent further states that said bond was written, signed, and  
delivered by him/her; that the premium on the same has been or will be collected by  
him/her; and that the full commission thereon has been or will be retained by him/her.

=====

Subscribed and sworn to before me, a notary public in and for the County of,  
, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.  
Notary Public

My Commission Expires:

AGENT'S ADDRESS:

Telephone

**Instructions:**

1. **Contractor shall attach pre-signed or un-signed form to Performance Bond and Labor and Material Bond and submit to Design Professional with Post-Bid submittals (see Section 00 2113 - Instructions to Bidders).**
2. **District shall review Surety for acceptability and, if approved, sign form prior to approval of Contract.**
3. **After review and approval of bonds, District shall include signed form with approved Contract in transmittal to PSFA.**

REVIEW AND APPROVAL:

This Bond has been executed by a Surety named in the current list of "companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies," as published in Circular 570 (amended) by the Audit Staff Bureau of Accounts, United States Treasury Department.

APPROVED:

By: \_\_\_\_\_  
Owner's Representative or Governing Authority

Date: \_\_\_\_\_



# MODIFICATION / CHANGE REQUEST

PROJECT NAME: XXXXXXXXXXXX PROJECT NUMBER: XXXXXXXXXXXX

M/CR LOG NUMBER \_\_\_\_\_ (Assigned by DP or PSFA) Current Date \_\_\_\_\_

REQUESTED BY DISTRICT REP (DR)  CONTRACTOR  DP  PSFA  INITIAL \_\_\_\_\_

WHO HAS REQUESTED THE WORK BE DONE \_\_\_\_\_  
ie; user group name/individual/contractor/subcontractor/ etc.

**DESCRIPTION OF CHANGE** ATTACHMENT(S) YES  NO   
First why, then how.

**OWNER REVIEW OF CONTENT AND/OR FEASIBILITY** INITIAL \_\_\_\_\_ DATE \_\_\_\_\_  
DR  
INITIAL \_\_\_\_\_ DATE \_\_\_\_\_  
PSFA

- DO NOT PROCEED
- PROCEED WITH ESTIMATE OF COSTS ONLY (within 10 calendar days of receipt of this MCR)!
- PROCEED WITH WORK, ESTIMATES OF COSTS TO FOLLOW (estimate within 10 days of receipt of this MCR)!

**A/E – ESTIMATED COST OF REQUIRED DESIGN WORK:** (estimate within 5 days; Include breakdown of costs)  
\$ \_\_\_\_\_ Initial \_\_\_\_\_ Date \_\_\_\_\_  
Project DP

**PROCEED WITH DESIGN:** (Forward proposed costs of work to OWNER for approval, include GRT)  
APPROVED AMOUNT \$ \_\_\_\_\_ Initial \_\_\_\_\_ Date \_\_\_\_\_  
DR PSFA

**CONTRACTOR'S PROPOSED COST:** ( Include backup, include GRT)  
APPROVED AMOUNT \$ \_\_\_\_\_ Initial \_\_\_\_\_ Date \_\_\_\_\_  
DR PSFA

**MUST BE COMPLETED TO FINALIZE:** INITIAL \_\_\_\_\_ DATE \_\_\_\_\_  
DR  
INITIAL \_\_\_\_\_ DATE \_\_\_\_\_  
PSFA

- PROCEED WITH MODIFICATION OF WORK AND TO CONTRACT SUM (INCLUDE IN CHANGE ORDER)
- REJECTED BUT, REPLACED BY MCR # \_\_\_\_\_
- REJECTED – STOP ALL ACTION ON THIS REQUEST \_\_\_\_\_

MODIFICATION / CHANGE REQUEST NO. \_\_\_\_\_

DATE: \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

**DESCRIPTION OF PROPOSED WORK:**

**NOTE:** Fill out a separate worksheet for each subcontractor on this MCR. The GC shall use this same form to summarize the total of all subcontractor proposals while adding GC costs. Attach all worksheets and breakdowns to summary sheet for each MCR.

<b>SUBCONTRACTOR'S COSTS (ATTACH SUBCONTRACTOR'S SHEET AND COST BREAKDOWNS):*</b>		
1	Total of subcontractor's material (attach itemized breakdown):	\$ -
2	Total of subcontractor's labor cost including fringe benefits and labor burden (attach itemized breakdown):	\$ -
3	Other directly attributable costs allowed (attach itemized breakdown):	\$ -
4	Subtotal:	\$ -
5	Subcontractor's O&P ( 0 % of Item 4)	\$ -
6	Subcontractor's Bond:	\$ -
7	Permits paid by subcontractor:	\$ -
8	<b>Subcontractor's Total Costs:</b>	<b>\$ -</b>

<b>GENERAL CONTRACTOR'S COSTS (ATTACH WORKSHEETS)*</b>		
9	GC's material (attach itemized breakdown):	\$ -
10	General Contractor's labor cost including fringe benefits and labor burden (attach itemized breakdown) @ ( 0 %):	\$ -
11	Construction equipment (rental):	\$ -
12	Directly attributable field supervision, insurance, etc. (attach itemized breakdown):	\$ -
13	Subtotal:	\$ -
14	General Contractor's Overhead and Profit on subcontractor ( 0 % of Item 8)	\$ -
15	General Contractor's Overhead and Profit on work by General Contractor's own forces ( 0 % of Item 13):	\$ -
16	Subtotal (sum of Items 13,14, and 15):	\$ -
17	Permits paid by General Contractor:	\$ -
18	Subtotal (sum of Items 8,16, and 17):	\$ -
19	Insurance ( 0 % of Item 18):	\$ -
20	Subtotal (sum of Items 18 and 19):	\$ -
21	Bond ( 0 % of Item 20):	\$ -

22	MCR Subtotal (sum of Items 20 and 21):	\$ -
23	Gross Receipts Tax ( 7.0000 % of Item 22):	\$ -
24	<b>General Contractor's total cost (sum of Items 22 and 23):</b>	<b>\$ -</b>

\* Allowable costs and percentages shall not exceed those indicated in Article 7.2.5.

Contractor - For Own Forces

Under \$2000, 18%





PSFA PROJECT # 0

PROJECT NAME: Sacramento Elementary School Demolition

CHANGE ORDER # 0

CONTRACTOR: 0

CHANGE ORDER TOTAL \$                    - STATE SHARE TO ADEQUACY \$                    - TOTAL DISTRICT \$                    -

By: _____ Name of District Representative <b>ALAMOGORDO PUBLIC SCHOOLS</b>	By: _____ Name of Signatory <b>Vigil &amp; Associates</b>	By: _____ Name of Signatory <b>0</b>
Date: _____	Date: _____	Date: _____

Reviewed By: _____ Scott Ficklin <b>PSFA REGIONAL MANAGER</b>	Approved By: _____ Martica Casias <b>PSFA DEPUTY DIRECTOR</b>
Date: _____	Date: _____



401 Broadway Blvd NE  
 Albuquerque, NM 87102  
 Phone: 505-841-4400  
 Fax: 505-841-4424

**TYPE “B” – GENERAL BUILDING**  
**Effective January 1, 2020**

Trade Classification	Base Rate	Fringe Rate	Apprenticeship
<b>Asbestos Workers/Heat and Frost insulators</b>	32.26	12.06	0.60
<b>Asbestos Workers/Heat and Frost insulators-Los Alamos County</b>	34.69	12.06	0.60
<b>Boilermaker/ blacksmith</b>	34.97	28.85	0.60
<b>Bricklayer/Block layer/Stonemason</b>	24.46	8.81	0.60
<b>Carpenter/Lather</b>	24.63	11.24	0.60
<b>Carpenter-Los Alamos County</b>	27.80	13.19	0.60
<b>Millwright/ pile driver</b>	33.16	25.24	0.60
<b>Cement Mason</b>	21.07	10.33	0.60
<b>Electricians-Outside Classifications- Zone 1</b>			
Ground man	23.27	12.67	0.60
Equipment Operator	33.39	15.35	0.60
Lineman/Tech	39.28	16.91	0.60
Cable Splicer	43.21	17.95	0.60
<b>Electricians-Outside Classification: Zone 2</b>			
Ground man	23.27	12.67	0.60
Equipment Operator	33.39	15.35	0.60
Lineman/ technician	39.28	16.91	0.60
Cable Splicer	43.21	17.95	0.60
<b>Electricians-Outside Classifications: Los Alamos</b>			
Ground man	23.94	12.85	0.60
Equipment Operator	34.35	15.60	0.60
Lineman/ Technician	40.41	17.21	0.60
Cable Splicer	44.45	18.28	0.60
<b>Electricians-Inside Classifications: Zone 1</b>			
Wireman/ low voltage technician	32.70	11.18	0.60
Cable Splicer	35.97	11.28	0.60



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 Albuquerque, NM 87102  
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Trade Classification	Base Rate	Fringe Rate	Apprenticeship
<b>Electricians-Inside Classification: Zone 2</b>			
Wireman/ low voltage technician	35.64	11.27	0.60
Cable Splicer	38.91	11.37	0.60
<b>Electricians-Inside Classification: Zone 3</b>			
Wireman/ low voltage technician	37.61	11.33	0.60
Cable Splicer	40.88	11.43	0.60
<b>Electricians-Inside Classification: Zone 4</b>			
Wireman/ low voltage technician	41.20	11.44	0.60
Cable Splicer	44.47	11.53	0.60
<b>Electricians-Inside Classification: Los Alamos</b>			
Wireman/ low voltage technician	37.61	13.21	0.60
Cable Splicer	40.88	13.47	0.60
<b>Elevator Constructor</b>	43.80	35.25	0.60
<b>Elevator Constructor Helper</b>	35.04	35.25	0.60
<b>Glazier</b>			
Journeyman/ Fabricator	20.25	5.35	0.60
Delivery Driver	9.00	5.35	0.60
<b>Ironworker</b>	27.00	15.75	0.60
<b>Painter (Brush/Roller/Spray)</b>	17.00	6.88	0.60
<b>Paper Hanger</b>	17.00	6.88	0.60
<b>Drywall- Light Commercial &amp; Residential</b>			
Ames tool operator	25.08	7.10	0.60
Hand finisher/machine texture	24.08	7.10	0.60
<b>Plasterer</b>	23.17	8.99	0.60
<b>Plumber/Pipefitter</b>	30.76	11.62	0.60
<b>Roofer</b>	25.23	7.97	0.60
<b>Sheet metal worker</b>			
Zone 1	31.03	17.26	0.60
Zone 2 – Industrial	32.03	17.26	0.60
Zone 3 – Los Alamos	33.03	17.26	0.60



LABOR RELATIONS DIVISION

WWW.DWS.STATE.NM.US

401 Broadway Blvd NE  
 Albuquerque, NM 87102  
 Phone: 505-841-4400  
 Fax: 505-841-4424

Trade Classification	Base Rate	Fringe Rate	Apprenticeship
<b>Soft Floor Layer</b>	19.94	7.70	0.60
<b>Sprinkler Fitter</b>	30.90	22.29	0.60
<b>Tile Setter</b>	24.46	8.81	0.60
<b>Tile Setter Helper/Finisher</b>	16.53	8.81	0.60
<b>Laborers</b>			
Group I- Unskilled and semi-skilled	17.50	6.27	0.60
Group II- Skilled	18.50	6.27	0.60
Group III- Specialty	20.75	6.27	0.60
<b>Masonry Laborers</b>			
Group I- Unskilled and Semi-Skilled	18.00	6.27	0.60
Group II- Skilled	19.75	6.27	0.60
Group III- Specialty	20.25	6.27	0.60
Reinforcing iron workers and post tension	24.00	6.27	0.60
<b>Operators</b>			
Group I	20.95	7.27	0.60
Group II	23.11	7.27	0.60
Group III	23.57	7.27	0.60
Group IV	24.01	7.27	0.60
Group V	24.20	7.27	0.60
Group VI	24.41	7.27	0.60
Group VII	24.52	7.27	0.60
Group VIII	27.56	7.27	0.60
Group IX	29.95	7.27	0.60
Group X	33.35	7.27	0.60
<b>Truck Drivers</b>			
Group I-VII	16.45	7.87	0.60
Group VIII	16.51	7.87	0.60
Group IX	18.45	7.87	0.60

**NOTE: All contractors are required to pay SUBSISTENCE, ZONE AND INCENTIVE PAY according to the particular trade. Details are located in a PDF attachment at [WWW.DWS.STATE.NM.US](http://WWW.DWS.STATE.NM.US). Search Labor Relations/Labor Information/Public Works/Prevailing Wage Rates.**

For more information about the Subsistence, Zone, and Incentive Pay rates, or to file a wage claim, contact the Labor Relations Division at (505) 841-4400 or visit us online at [www.dws.state.nm.us](http://www.dws.state.nm.us).

## SUPPLEMENTARY CONDITIONS

### MODIFICATION TO GENERAL CONDITIONS

1.0 None (add any modifications to the General Conditions here):

### ADDITIONAL CONDITIONS

- 2.0 The Contractor shall include the cash allowances listed in Section 00 4113 or Section 00 4166 – BID FORM in his Bid.
- 2.1 The Contractor shall purchase the "Allowed Materials" as directed by the Owner through the Architect/Engineer on the basis of the lowest and best bid of at least three competitive bids. Unless specified by the Construction Documents otherwise, if the actual price for purchasing the "Allowed Materials" is more or less than the "Cash Allowance," the Contract Price shall be adjusted accordingly (see Subparagraph 3.8.4). The adjustment in Contract Price shall be made on the basis of the purchase price without additional charges for overhead, profit, insurance, or any other incidental expenses. The total cost of installation of the "Allowed Materials" shall be included in the Base Bid or Alternates as appropriate.
- 2.2 The contractor shall be required remove all refuse and debris resulting from demolition, and transport to an approved landfill for permanent disposal. A receipt for such disposal shall be provided to the Owner.
- 2.3 Dirt fill material for the restoration of the site following demolition must be transported from off site to accomplish the finished grade requirements of the construction documents. In no case shall the earthwork requirements be accomplished by using the dirt or other material fill that is currently located on the site.

**INSTRUCTIONS:**

The State Minimum Wage Rate Determination and related documents issued for this specific project shall be inserted on this page.

**NOTE:** Not required if project is less than \$60,000 (effective June 17, 2005)

Insert Wage Rate to Follow

Division One  
**GENERAL**

**SECTION 01 1000****SUMMARY****PART 1 - GENERAL****1.01 SUMMARY**

- A. Section includes:
1. Project Summary
  2. Contractor's Duties.
  3. Description of Alterations Work.
  4. Work Sequence.
  5. Work by Others.
  6. Owner Occupancy.
  7. Contractor use of site.
  8. Contractor's Personal Jobsite Restrictions.
  9. Employee Background Checks.
  10. Definitions.
  11. Abbreviations.
- B. Related documents and sections:
1. Document 00 7200 - General Conditions of the Contract
    - a. Article 2: Basic responsibilities and rights of Owner.
    - b. Article 3: Basic responsibilities of Contractor.
  2. Section 01 2300 - Alternates: Alternates which increase scope of Project.

**1.02 PROJECT**

- A. Project Name: SACRAMENTO ELEMENTARY SCHOOL –  
DEMOLITION
- B. Owner's Name: ALAMOGORDO PUBLIC SCHOOLS
- C. Architect's Name: VIGIL & ASSOCIATES ARCHITECTURAL GROUP
- D. Project Summary:

Bid Lot 1 - Base Bid: Demolition & removal of the existing 1 story approximately 50,000 sq.ft. Elementary school building on; demolition included structure, foundation, utilities and other site elements in preparation for future site improvements. The site will be backfilled at the removed foundation to new finish grade matching approximately elevation of existing site to prevent ponding at existing building area. The owner may remove items from existing building prior to the start of work.

Bid Lot 2: Asbestos Abatement: General Contractor is responsible for complete asbestos removal of the identified hazardous material within the entire building.



2. The contractor shall review the contract documents for a full understanding of the scope of this project.
3. There are no **Additive Alternates** for the project.

### 1.03 CONTRACT DESCRIPTION

- A. Contract Type: A single prime contract based on a Stipulated Price as described in construction contract agreement.

### 1.04 CONTRACTOR'S DUTIES

- A. Except as noted, provide and pay for all labor, materials, and equipment.
  1. Pay required sales, gross receipts, and other taxes. Owner will pay Contractor applicable New Mexico gross receipts tax including local option tax and any increase in tax becoming effective after Contract date. Tax is to be excluded from bid prices but included as separate amount on Applications for Payment.
- C. Secure and pay for permits (including plan checking fees), fees, and licenses necessary for execution of Work as applicable at time of receipt of bids or as otherwise required in other sections of the Specifications.
- D. Give required notices.
- E. Comply with codes, ordinances, regulations, and other legal requirements of public authorities which bear on performance of Work.
- F. Request required inspections from public authorities, correct any noted deficiencies, and obtain certifications of satisfactory inspection. Deliver certificates to Owner in accordance with Section - 1 7800 – Closeout Submittals.

### 1.05 DESCRIPTION OF ALTERATIONS WORK

- A. Scope of demolition and removal work is shown on drawings and specified in Section 02 4100.
- B. Scope of alterations work is shown on drawings.
  1. Plumbing: Alter existing system and add new construction.
  2. HVAC: Alter existing system and add new construction.
  3. Electrical Power and Lighting: Alter existing system and add new construction.
  4. Fire Suppression Sprinklers: Alter existing system and add new construction.

### 1.06 WORK SEQUENCE

- A. Construct Work in phases during the construction period as coordinated with Owner and Architect.
- B. Coordinate construction schedule and operations with Owner and Architect.
- C. Refer to stages of Work on Sheet G003.

### 1.07 WORK BY OTHERS

- A. Owner will award separate construction contracts for purchase and installation of:
  1. Moveable furniture and equipment except where noted.

2. Landscaping and irrigation systems.
  3. Other items indicated as "By Owner".
- B. Owner will remove and retain possession of the following items prior to start of Work:
1. Interior furnishings in the cafeteria.
  2. Kitchen Equipment.
- C. Owner's responsibilities:
1. Schedule and assist Contractor in coordination of work by Owner's own forces and separate contractors.
  2. Schedule delivery of Owner supplied products.
  3. Obtain and provide to Contractor shop drawings, product data, and installation instructions for Owner supplied products.
  4. Arrange and pay for delivery of Owner supplied products to site.
  5. Submit claims for transportation damage and replace damaged, defective, or deficient items.
- D. Contractor's responsibilities:
1. Participate in coordination of work with other installers, including Owner's own forces and separate contractors.
  2. Inform Owner of required delivery dates for Owner supplied products and installation dates for work by others.
  3. Review shop drawings, product data, and installation instructions; coordinate installation with other work; and provide blocking and other preparation required for Owner supplied products.
  4. Unload Owner supplied products required to be installed by Contractor at site and inspect for completeness and damage. Assemble, finish and install products as indicated by Contract Documents.
  5. Repair or replace items damaged after receipt.

#### **1.08 OWNER OCCUPANCY**

- A. Owner intends to continue to occupy adjacent portions of the existing building during the construction period.
- B. Owner intends to occupy the Project upon Substantial Completion.
- C. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
- D. Schedule the Work to accommodate Owner occupancy.

#### **1.09 CONTRACTOR USE OF SITE**

- A. Existing building and site will be occupied during construction. Cooperate with Owner to minimize conflict and to facilitate Owner's operations during regular and after-hours use.
- B. Construction Operations: Limited to areas noted on Drawings and as coordinated with Owner and Architect.

- C. Contractor will have restricted use of site to allow Owner occupancy, Owner to conduct normal operations, and installations by others.
1. Access to site by trucks, equipment, and automobiles. Limited to route and entrances designated in Section 01 5000 – Temporary Facilities and Controls. Schedule construction traffic and material deliveries to site during time periods coordinated in advance with Owner.
  2. On site construction vehicle and equipment traffic shall be limited to pathways, areas, and time periods approved in advance by Owner to ensure safe site conditions. Special care shall be taken during change of class periods, student arrival/departure times and around playgrounds, bus zones and established student pathways. The Contractor shall strictly maintain close communication with designated school representative(s) on matter of on-site construction traffic scheduling and promptly inform them in advance of any significant changes to related pre-authorized arrangements. Do not proceed with altered arrangements prior to designated school representative(s) approval.
  3. Existing student and staff toilet rooms are off-limits to Contractor unless they are not available for use by the school due to the approved schedule of work.
  4. Parking: Contractor and work force may use designated portions of existing parking lots. Do not interfere with Owner's parking requirements.
  5. Unless otherwise agreed to in advance by Owner, construction shall be performed only during these time periods:
    - a. Normal weekday work hours.
    - b. Time periods established by Owner and Architect.
  6. Construction activities shall be limited to areas of actual construction. Unless otherwise agreed to in advance by Owner, restrict workmen from entering adjacent restricted areas.
- D. Existing building spaces may not be used for storage.
- E. Contractor shall make arrangements with Owner to secure any keys necessary for access to existing building and site areas so that the work can be performed. The Contractor assumes sole responsibility for the security and use of school keys obtained from the Owner and shall not reproduce them nor lend them out during the progress of work.
- F. Do not allow dust and debris to blow onto adjacent restricted areas.
- G. Provide 72 hours notice to Owner for any work that may interrupt or otherwise impact the facility's normal operation including noisy dust or odor producing activities.
- H. Emergency exits shall be maintained during construction in a manor satisfactory to the Architect, Owner, and local officials having jurisdiction over emergency procedures and fire safety at the school. Notify Architect and Owner of any proposed modifications to emergency exits in advance of making changes due to construction.
- I. Utility outages and shutdowns:
1. Maximum allowable duration: 4 hours or as approved in advance by Owner.
  2. Coordinate all utility shutdowns which affect the operation of the school and neighbors with the Architect, Owner, and any entity having jurisdiction over or ownership of impacted public or private utility infrastructure.
  3. Schedule outages during off hours to facilitate Owner's operations.

4. Submit written requires for outage to Architect 72 hours before anticipated outage. Outage must be approved in writing by Design Professional.
- J. Owner reserves right to place and install equipment and furnishings in completed areas of building prior to Substantial Completion, provided such occupancy does not interfere with construction. Placing of equipment and furnishings does not constitute Substantial Completion of any portion of the Work. An inspection by Contractor, Owner and Architect shall be made prior to such limited occupancy solely for the purpose of establishing the condition of finishes and other items that might be damaged or obscured by placement and installation of Owner's items.
- K. Existing natural vegetation at the site shall be retained to the extent possible. Limit movement and storage of equipment and materials to minimize damage to natural vegetation and terrain.

#### **1.10 CONTRACTOR'S PERSONNEL JOBSITE RESTRICTIONS**

- A. Contractor shall enforce the following requirements on his entire workforce throughout the progress of the Work:
  1. All personnel on site, directly or indirectly in the employ of Contractor, are restricted from any interaction with any Owner, Owner's staff, students, or other members of the public while on, or adjacent to Owner's property except through jobsite meetings conducted by the Design Professional and the Owner or as otherwise determined by the Owner.
  2. Contractor's personnel shall remain in their designated work areas. Communications with any non-project related persons on or near the site shall be through Project Superintendent.
  3. No firearms or other types of weapons, of any sort are allowed on site. If member of the Contractor's workforce is found to be in possession of a firearm, of any kind, they will be directed to leave immediately and will not be allowed to return. This includes firearms found in company or private vehicles, tool boxes, or brought on site in any other manner;
  4. Smoking is prohibited on any occupied school campus. Smoking shall be limited to designated areas on a new, or un-occupied, site, if allowed in advance by Owner.
  5. There shall be no use, possession, sale, and distribution of alcohol, drugs, or other controlled substances on its premises. The Contractor shall also prohibit the presence of an individual with such substances in their body from the workplace.
  6. Any employee who is found in violation of requirements of these restrictions, or of any others within the Contract Documents, or who refuses to permit inspection shall be barred from the Project site at the discretion of the Owner in accordance with Subparagraph 13.8.4.1 of the General Conditions.
  7. Comply with Owner's procedures for individual visual identification of Contractor's workforce on school site and in occupied areas. If identification badges are required make sure that they are worn at all times on site during the work.

#### **1.11 DEFINITIONS**

- A. Refer to Document 00 7000 – General Conditions, Article 1.1 for definitions of terms used within Contract Documents.
- B. Additional terms used within Specifications but not defined by Document 00 7000 – General Conditions shall have the following definitions:
  1. Products: Materials, manufactured items, components, fixtures, machinery, equipment, or systems forming the Work but not including machinery, equipment, and other aids used for preparing, fabricating, conveying, and installing the work.
  2. Supply: Furnish, deliver, and unload and Project site. Same meaning as furnish.
  3. Furnish: Supply, deliver, and unload at Project site. Same meaning as supply.
  4. Install: Operations and Project site to incorporate products into the Work such as

unpacking, assembling, anchoring, erecting, applying, placing, curing, finishing, and preparing for use.

5. Provide: To supply or furnish a product and to also install it.
6. Execution: Operations at Project site including preparatory actions, installing, and post-installation adjusting, testing, cleaning, and demonstrating.

#### 1.12 ABBREVIATIONS

1. Abbreviations used within the Specifications are defined as follows. For abbreviations not listed, contact Architect for definitions.

ASTM – American Society for Testing and Materials.

ANSI – American National Standards Institute

CF – Cubic feet.

CFM – Cubic feet per minute.

F – Fahrenheit.

LF – Linear feet.

LB – Pound.

MPH – Miles per hour.

SF – Square feet.

SY – Square yards.

PSI – Pounds per square inch.

PSF – Pounds per square foot.

RPM – Revolutions per minute.

IBC – International Building Code as published by International Code Council.

UL – Underwriters Laboratory.

#### PART 2 - PRODUCTS

Not used.

#### PART 3 - EXECUTION

Not used.

**END OF SECTION**

**SECTION 01 3100****PROJECT MANAGEMENT AND COORDINATION****PART 1 - GENERAL****1.01 SUMMARY**

- A. Section includes:
1. General requirements for coordination of Work.
  2. Field engineering.
  3. Requirements for participation in and administration of:
    - a. Pre-construction conference.
    - b. Progress meetings.
    - c. Pre-installation conferences.
  4. Progress schedule.
- B. Related documents and sections:
1. Document 00 0700 – General Conditions
    - d. Paragraph 3.10 – Contractor’s Schedules, Logs, Meetings, and Reports
  2. Document 00 2113 - Pre-Proposal Conference.
  3. Section 01 1000 - Summary: Work by others.
  4. Section 01 4000 – Quality Requirements: Coordination with Owner’s project roof observer.
  5. Section 01 5000 – Temporary Facilities and Controls

**1.02 SUBMITTALS**

- A. Provide in accordance with Section 01 3300 - Submittal Procedures:
1. Site mobilization plan (See Section 01 5000 and Paragraph 3.13 in Document 00 0700 – General Conditions).
    - a. Submit for Owner’s approval prior to start of Work.
    - b. Update as necessary during progress of Work to adjust for changed conditions and as approved by Owner.
  2. Coordination drawings:
    - a. Provide where coordination is critical for installation of components fabricated off site and where space is limited and maximum utilization of space is required.
    - b. Show relationship and integration of components and construction entities, required installation sequence, dimensions, and tolerances.
- B. Staff assignment list and emergency contact information:
1. Prior to Pre-Construction Conference, provide to Design Professional a list of Contractor’s principal staff assignments for Project. Indicate names, duties and responsibilities, addresses, emergency contact information and telephone numbers. Include resume of proposed Project Superintendent showing prior experience as superintendent on projects of similar size and scope. Naming more than one Project Superintendent to be in charge depending which is present at the site will not be acceptable. Design Professional shall be informed in writing prior to any proposed change in Project Superintendent during the progress of the Work. See also Paragraph 3.9 of the General Conditions.

2. Distribute contact information and post in field office coordination.

### 1.03 GENERAL COORDINATION REQUIREMENTS (See Article 3 in General Conditions).

- A. Scheduling: Coordinate scheduling, submittals and work of various specification sections to ensure efficient and orderly sequence of installation of interdependent construction elements. Ensure that work of one specification section is not installed in such a manner as to limit, preclude, or restrict work of another section.
- B. Coordinate completion and clean-up of work of separate specification sections in preparation for final inspection specified in Section 01 7700 - Closeout Procedures.
- C. After acceptance of Work, coordinate access to facility for required maintenance, monitoring, adjusting, and correcting deficiencies to manner to minimize disruption of Owner's activities.
- D. Coordinate with Owner regarding work of Owner's forces and separate contractors. Ensure coordination of such work with Project Schedule.
- E. Roofing Work Coordination with Owner (and Roofing Consultant if applicable): Contractor shall notify the Owner's Representative and Owner's Roofing Consultant (if applicable) no later than 24 hours in advance regarding anticipated change in the roofing installation schedule due to prediction of bad weather or by other circumstances, including those directly caused by roof system installer, which will prevent roof system installation in accordance with the current Project Schedule. Lack of adequate communication between Contractor and subcontractor regarding anticipated scheduling shall not relieve Contractor of this requirement. Contractor shall be responsible for reimbursing to the Owner the related cost of Owner's separate contractor services, including those of the Roofing Consultant if Contract roofing production rates are not met due to lack of compliance with these requirements. See also Section 01 4000 – Quality Requirements.

### 1.04 FIELD ENGINEERING

- A. Survey work: Submit name, address, and telephone number of Surveyor before starting survey work.
  1. On request, submit documentation verifying accuracy of survey work.
  2. Submit a copy of site drawing signed by the Land Surveyor, that the elevations and locations of the work are in conformance with Contract Documents.
  3. Submit surveys and survey logs for the project record.
- B. Existing control datum for field engineering is indicated on Drawings.
- C. Locate or establish survey control and reference points prior to starting site construction. Protect points during construction and record locations with horizontal and vertical data on Project Record Documents in accordance with Section 01 7800 - Closeout Submittals.
- D. Prior to start of construction; verify location of control points and layout information on Drawings relative to property, setback, and easement lines.
- E. Provide competent field engineering services. Establish elevations, lines, and levels utilizing recognized engineering survey practices. Periodically verify layouts.
- F. Promptly replace dislocated control and reference points based on original survey control.

### 1.05 PROJECT COMMUNICATIONS SYSTEM (E-Builder)

- A. Utilize PSFA – E-Builder for project communications. Refer to Document 00 7200 – General Conditions. Subparagraph 4.2.4.3.
- B. Arrange with Owner as necessary to obtain PSFA – E-Builder training for Contractor's principal staff on Project.

#### 1.06 PRE-CONSTRUCTION CONFERENCE

- A. Conference will be held after execution of the Agreement and prior to issuance of Notice To Proceed. Time and location will be coordinated with Owner and Design Professional. Meet at the site or other location convenient to all parties.
- B. Attendance: Owner, school principal or other designated school representative, Design Professional, consultants, Contractor, and major subcontractors and suppliers.
- C. Agenda:
  - 1. Distribution of Contract Documents.
  - 2. Designation and description of roles of responsible personnel representing Owner, Contractor, and Design Professional.
  - 3. Status of permits and Notice to Proceed.
  - 4. Site mobilization plan, use of premises by Contractor and Owner, Owner's occupancy requirements, work hours, regular school schedule and special school schedule considerations.
  - 5. Public relations.
  - 6. Channels of communication.
  - 7. Construction schedule, work sequence, and delivery priorities.
  - 8. Weekly job meeting schedule.
  - 9. Permits.
  - 10. Owner's right to salvage.
  - 11. Presentation and discussion of site mobilization plan specified in Section 01 5000 – Temporary Facilities and Controls.
  - 12. Construction facilities, controls, and temporary utilities.
  - 13. Procedures for processing submittals, applications for payment, substitution requests, field decisions and communications, and contract modifications.
  - 14. PSFA – E-Builder
  - 15. Employment practices and wage rates.
  - 16. Security, Contractor's use of keys, safety, first aid, and housekeeping.
  - 17. Behavior of work force on school site.
  - 18. Procedures for spotting of utility lines.
  - 19. Procedures for maintaining project record documents.
  - 20. Requirements for startup of equipment.
  - 21. Testing and inspection procedures.
  - 22. Introduce Owner's separate contractors and consultants, including PAC and roofing observer.
  - 23. Inspection and acceptance of equipment put into service during construction.



24. Contract closeout procedures.
25. Emergency contact information.
26. Other pertinent items.
27. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

#### **1.07 PROGRESS MEETINGS**

- A. Refer to Document 00 7200 General Conditions – Paragraph 3.10 for requirements.

#### **1.08 PRE-INSTALLATION CONFERENCES**

- A. When required by an individual specification section, convene a pre-installation conference at site.
- B. Require attendance of entities directly concerned with item of work.
- C. Notify Design Professional 4 days in advance of meeting.
- D. Prepare agenda and preside at conference. Record minutes, and distribute copies within 3 days to participants and Design Professional.
- E. At meeting, review conditions of installation, preparation and installation procedures, and coordination with related work.

#### **1.09 PROGRESS SCHEDULE**

- A. See Paragraph 3.10 in the General Conditions for requirements.
  1. Indicate complete sequence of roofing activity in compliance with roofing production rates required by Contract.

#### **1.10 PROGRESS MEETINGS**

- A. Schedule and administer meetings throughout progress of the Work at maximum monthly intervals.
- B. Contractor will make arrangements for meetings, prepare agenda with copies for participants, preside at meetings, and distribute notice of meeting five (5) days in advance of meeting.
- C. Attendance Required: Job superintendent, major Subcontractors and suppliers, Owner, Architect, as appropriate to agenda topics for each meeting.
- D. Agenda:
  1. Review minutes of previous meetings.
  2. Review of Work progress.
  3. Field observations, problems, and decisions.
  4. Identification of problems that impede, or will impede, planned progress.
  5. Review of submittals schedule and status of submittals.
  6. Review of off-site fabrication and delivery schedules.
  7. Maintenance of progress schedule.
  8. Corrective measures to regain projected schedules.
  9. Planned progress during succeeding work period.

10. Coordination of projected progress.
  11. Maintenance of quality and work standards.
  12. Effect of proposed changes on progress schedule and coordination.
  13. Review proposed change orders and effect on schedule.
  14. Review project record documents.
  15. Review of RFI's and status of RFI's.
  16. Other business relating to Work.
- E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
- F. Pre-Installation Conferences:
1. When required by an individual specification section, convene a pre-installation conference at site.
  2. Require attendance of entities directly concerned with item of work.
  3. Notify Architect five (5) days in advance of meeting.
  4. Prepare agenda and preside at conference. Record minutes, and distribute copies within three (3) days to participants and Architect.
  5. At meeting, review conditions of installation, preparation and installation procedures, and coordination with related work.

## **PART 2 - PRODUCTS**

### **2.01 EQUIPMENT**

- A. Verify utility requirements and characteristics of equipment are compatible with facility utilities. Coordinate work of various specification sections having interdependent requirements for installing, connecting to, and placing in service such equipment.

## **PART 3 - EXECUTION**

### **3.01 COORDINATION WITH INSTALLED CONSTRUCTION**

- A. Cutting and patching of installed construction shall be accomplished in accordance with Section 01 7000 - Execution Requirements.

**END OF SECTION**

**SECTION 01 3300**  
**SUBMITTAL PROCEDURES**

**PART 1 - GENERAL****1.01 SUMMARY**

- A. Section includes submittal procedures for:
1. Shop drawings.
  2. Product data.
  3. Samples.
  4. Manufacturer's instructions.
  5. Design data and calculations.
  6. Manufacturer's certificates.
  7. Reports for testing, inspecting, and demonstrating.
  8. HVAC & controls construction checklists
  9. Equipment inventory and roofing data collection forms.
- B. Related documents and sections:
1. Document 00 7200 - General Conditions Paragraph 3.12: Contractor's responsibilities regarding submittals.
  2. Section 01 3100 - Project Management and Coordination: Submittal of Progress Schedule and coordination drawings.
  3. Section 01 4000 - Quality Requirements: Manufacturers' field services and reports.
  4. Section 01 6300 - Product Substitution Procedures: Submittal of substitution requests.
  5. Section 01 7800 - Closeout Submittals: Submittal of project record drawings, operation and maintenance manuals, warranties, certifications of inspection, extra materials, and other closeout submittals.
  6. Section 01 7801 - Equipment Inventory and Roofing Data Collection: Collection and submittal of data required by Owner for equipment and roof system(s) installed under the Contract.
  7. Refer to individual specification sections for unique submittal requirements related to a specific product, system, or procedure.

**1.02 HVAC & CONTROLS CONSTRUCTION CHECKLISTS**

- A. Submission:
1. Submit the checklists prior to TAB work as required by Division 23.
  2. Submit reports as required by Division 23.
- B. Form:
1. Use forms provided in Section 23 0593 - Testing, Adjusting and Balancing.
  2. Bind with titled cover in folder, plastic binder, or three ring binder as appropriate for quantity of material.

- C. Reports shall include:
1. Completion of all required checklist items.
  2. Names of persons performing activity.

### **1.03 EQUIPMENT INVENTORY AND ROOFING DATA COLLECTION FORMS**

- A. Submission:
1. Submit completed forms for all categories of equipment and roofing installed under the Contract, and as required in Section 01 7801 – Equipment Inventory and Roofing Data Collection.
  2. Submit forms prior to Substantial Completion and as required by Section 01 7801.
- B. Form:
1. Use electronic forms as required in Section 01 7801 and provided by PSFA on its web site at [www.nmpsfa.org](http://www.nmpsfa.org) ("Maintenance Portal" page).for each type of equipment to be inventoried.

### **PART 2 - PRODUCTS**

Not used.

### **PART 3 - EXECUTION**

#### **3.01 SUBMITTALS FOR REVIEW**

- A. When the following are specified in individual sections, submit them for review:
1. Product data.
  2. Shop drawings.
  3. Samples for selection.
  4. Samples for verification.
- B. Submit to Architect for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.
- C. Samples will be reviewed only for aesthetic, color, or finish selection. Note: Product substitutions may be rejected based on aesthetic, color or finish of the material if it does not meet the intent of the design.
- D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 7800 - CLOSEOUT SUBMITTALS.

#### **3.02 SUBMITTALS FOR INFORMATION**

- A. When the following are specified in individual sections, submit them for information:
1. Design data.
  2. Certificates.
  3. Test reports.
  4. Inspection reports.

5. Manufacturer's instructions.
6. Manufacturer's field reports.
7. Other types indicated.

B. Submit for Architect's knowledge as contract administrator or for Owner.

### 3.03 SUBMITTALS FOR PROJECT CLOSEOUT

A. When the following are specified in individual sections, submit them at project closeout:

1. Project record documents.
2. Operation and maintenance data.
3. Warranties.
4. Bonds.
5. Other types as indicated.

B. Submit for Owner's benefit during and after project completion.

### 3.04 NUMBER OF COPIES OF SUBMITTALS AND FORMATTING

A. All documents shall be submitted electronically through the FTP site (or E-Builder), unless directed otherwise by Architect.

B. Documents for Review:

1. Small Size Sheets, Not Larger Than 8-1/2 x 11 inches. Submit electronic copies in PDF format.
2. Larger Sheets, Not Larger Than 30 x 42 inches: Submit electronic copies in PDF format.
3. Review will be returned electronically.

C. Documents for Information: Submit electronically plus one (1) hard copy.

D. Documents for Project Closeout: Provide an electronic version on USB flash drive or CD-R of submittal originally reviewed and the final, revised and approved submittals.

E. Samples: Submit the number specified in individual specification sections; two of which will be retained by Architect.

1. After review, produce duplicates.
2. Retained samples will not be returned to Contractor unless specifically so stated.

### 3.05 SAMPLES

A. Submit the number specified in individual specification sections; two (2) of which will be retained by Architect.

1. For color samples, after review, produce duplicates. All color samples shall be actual materials or accurate color representations of the materials.
2. Label each sample with identification related to Submittal Transmittal Form.
3. Product samples will not be returned to Contractor unless specifically so stated.
4. Submit samples at least thirty (30) days prior to the date the contractor needs approval for ordering or incorporation into the Work.
5. Colors and Patterns: Unless a color and pattern is specified for the product, submit two sets of accurate color and pattern charts, and samples illustrating the manufacturer's full range for selection by the Architect. All color samples must be submitted before a color schedule can be generated allowing any color to be assigned to any product for ordering.
  - a. When a color/pattern has been specified in the construction documents, any substitution may be rejected by the architect solely based on the color/pattern. All substitutions must be approved by the architect.

6. Type: Submit samples to illustrate functional and aesthetic characteristics of the products, with all integral parts and attachment devices. Include full range of manufacturer's standard finishes, indicating color, textures and patterns for the Architect's selection if selection has not been previously scheduled.
7. Reviewed product samples may be used in the work with approval by the Architect.

### 3.06 SUBSTITUTION PROCEDURES

- A. The Instructions to Bidders in the front end of project manual specifies time restrictions for submitting requests for substitutions during the bidding period. Comply with requirements specified in this section.
- B. Architect will consider requests for substitutions prior to bidding per the Instructions to Bidders and within 30 days after date established in Notice to proceed.
  1. Only requests submitted on "01 6301 – Prior Approval Substitution Request Form" will be considered.
- C. Substitutions may be considered after bidding (unless noted otherwise) when:
  1. A product becomes unavailable through no fault of the Contractor.
  2. There will be a delay in schedule without a substitution through no fault of the Contractor.
  3. At sole discretion of the Architect/Owner.
  4. Only requests submitted on "01 6302 – Contractor Substitution Request Form" will be considered.
- D. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
- E. A request for substitution constitutes a representation that the submitter:
  1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
  2. Will provide the same warranty for the substitution as for the specified product.
  3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
  4. Waives claims for additional costs or time extension that may subsequently become apparent.
  5. Will reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.
- F. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.
- G. Substitution Submittal Procedure:
  1. Submit two copies of request for substitution for consideration. Limit each request to one proposed substitution.
  2. Submit separate request for each substitution with Form 01 6301 or 01 6302 - Substitution Request Form. Only requests submitted on this form will be accepted.
  3. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer. Include in the request:
    - a. Complete data substantiating compliance of proposed substitution with Contract Documents.
    - b. For products:
      - (1.) Product identification, including manufacturer's name and address.
      - (2.) Manufacturer's literature containing product description, performance and test data, and reference standards with the sections pertaining to the product to be substituted highlighted or marked.
      - (3.) Samples as required.
    - c. For construction methods: Detailed description of proposed method, and drawings

illustrating methods, if a change is needed from the original methods listed in the Construction Documents.

- d. Itemized comparison of proposed substitution with product specified.
- e. Data relating to changes in construction schedule.
- f. Give cost data comparing proposed substitution with specified product.

### 3.07 SUBMITTAL PROCEDURES

- A. Schedule submittals to expedite work. Unless otherwise noted, submittals shall be submitted within 45 days of the date of the Owner – Contractor Agreement.
- B. Transmit each submittal with a separate Submittal Transmittal Form. The form follows this section in Section 01 3301 - Submittal Transmittal Form.
- C. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.
- D. Identify Project, Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.
- E. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents. Return non-conforming submittals to preparer for revision rather than submitting to Architect.
- F. Sign Submittal Transmittal Form and deliver submittals electronically to Architect plus one hard copy to business address
- G. Schedule submittals to expedite the Project, and coordinate submission of related items.
- H. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
- I. Provide separate submittals for each specification section requiring submittals. Include all material requested for that section. Provide folders or binders for material.
- J. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- K. Do not fabricate products or begin work which requires submittals until return of submittal with the Architect's acceptance.
- L. Coordinate submission of related items. Group submittals of related products or a system in a single transmission.
- M. Mark or show dimensions and values in the same units as specified.
- N. Provide space for Contractor and Architect review stamps.
- O. When revised for resubmission, identify all changes made since previous submission.
- P. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
- Q. Submittals not requested or not approved in advance by the Contractor will not be recognized or processed.

### 3.08 PRODUCT DATA

- A. Submission: Submit electronically or the number of hard copies which Contractor requires plus two (2) originals to be retained by Architect.
- B. Form:
  - 1. Provide all critical information such as references standards, performance characteristics, capacities, power requirements, wiring and piping diagrams, controls, component parts, finishes, dimensions, and required clearances.
  - 2. Submit only data which are pertinent. Highlight and mark each copy of manufacturer's standard printed data to identify products, models, option, and other data pertinent to project.

### 3.09 MANUFACTURER'S INSTRUCTIONS

- A. Submission: Submit electronically or the number of hard copies which Contractor requires plus two (2) to be retained by Architect.
- B. Form:
  - 1. Manufacturers' printed instructions for activities such as delivery, storage, assembly, installation, wiring, start-up, adjusting, finishing, and maintaining.
  - 2. Indicate pertinent portions and identify conflicts between manufacturers' instructions and Contract Documents.

### 3.10 DESIGN DATA AND CALCULATIONS

- A. Submission: Submit electronically or the number of hard copies which Contractor requires plus two (2) to be retained by Architect.
- B. Form:
  - 1. Provide basic calculations, analyses, and data to support design decisions and demonstrate compliance with specified requirements. State assumptions and define parameters. Give general formulas and references. Provide sketches as required to illustrate design method and application.
  - 2. Arrange calculations and data in a logical manner with suitable text to explain procedure.
  - 3. Indicate name, title, and telephone number of individual performing design and include professional seal of designer where applicable or required.

### 3.11 MANUFACTURERS' CERTIFICATES

- A. Submission: Submit electronically or the number of hard copies which Contractor requires plus two (2) to be retained by Architect.
- B. Form:
  - 1. Certificates shall indicate that products conform to or exceed specified requirements. Submit supporting reference data, affidavits, and certifications as required.
  - 2. Certificates may be based on recent or previous test results if acceptable to Architect.

### 3.12 REPORTS

- A. Submission:
  - 1. Submit electronically or the number of hard copies which Contractor requires plus two (2) to be retained by Architect.



2. Submit reports within fifteen (15) days after completion of activity.

**B. Form:**

1. Present complete information in a clear concise manner.
2. Typed or computer printed on 8-1/2 by 11 inch white paper.
3. Bind with titled cover in folder, plastic binder, or three ring binder as appropriate for quantity of material.

**C. Reports shall include:**

1. Time, location, conditions, and duration of activity.
  - a. Names of persons performing and witnessing activity.
  - b. Equipment used.
  - c. Description of activity, data recorded, and results.
  - d. Deficiencies found, corrective measures, and results of retesting.
  - e. Other pertinent data.

**END OF SECTION**

**SECTION 01 3301**  
**SUBMITTAL TRANSMITTAL FORM**



Date: \_\_\_\_\_

Project: SACRAMENTO ELEMENTARY SCHOOL – DEMOLITION

PSFA Project No. S19-001

Owner: ALAMOGORDO PUBLIC SCHOOLS

Contractor: \_\_\_\_\_

Submittal Number: \_\_\_\_\_ Number of Copies Submitted: \_\_\_\_\_  
*(Include transmittal number - referenced specification section - submission number; i.e. "24-013300-01" Or "24-013300-02" if re-submittal)*

Resubmittal:  Yes  No

Submittal Title/Item: \_\_\_\_\_

Referenced Specification Section: \_\_\_\_\_

Name of Subcontractor and/or Supplier: \_\_\_\_\_

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Samples Included:  Yes  No

Color Selection Required:  Yes  No

The undersigned, as Contractor for the above project, submits the following and certifies that submittal has been reviewed and conforms to requirements of the Contract Documents.

Reviewed and Submitted By: \_\_\_\_\_

Signature: \_\_\_\_\_

Note: Submittal review corrections and comments by Architect do not relieve Contractor from compliance with Contract Documents. Review is only for general conformance with design concept and general compliance with information given in Contract Documents. Contractor is responsible for verifying dimensions, selecting fabrication processes and techniques of construction, coordination with other trades, and performing work in safe and satisfactory manner.

**FOR ARCHITECT USE:**

Date Received by Architect: \_\_\_\_\_

Distributed To:

- Owner     Civil     Landscape     Structural     Mechanical     Electrical

Other: \_\_\_\_\_

**SECTION 01 4000****QUALITY REQUIREMENTS****PART 1 - GENERAL****1.01 SUMMARY****A. Section includes:**

1. Installation quality control.
2. Reference standards.
3. Mock-ups.
4. Field samples.
5. Inspection and testing laboratory services.
6. Manufacturer's field services and reports.

**B. Related requirements:**

1. Document 00 7200 - General Conditions:
  - a. Paragraph 3.3: Contractor's supervision and construction procedures.
  - b. Subparagraph 2.2.4: Owner's responsibilities for testing and inspections.
  - c. Article 12: Contractor's responsibility for uncovering and correction of work.
  - d. Paragraph 13.5: Requirements for tests and inspections.
2. Section 01 3100 – Project Management and Coordination: Requirements for coordination with Owner's separate contractors.
3. Section 01 6000 - Product Requirements: Requirements for material and product quality.
4. Section 23 0593 - Testing, Adjusting, and Balancing: Testing and balancing of HVAC system.

**1.02 REFERENCES AND STANDARDS**

- A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- C. Obtain copies of standards where required by product specification sections.
- D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
- E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

- G. When specifications require conformance to a reference standard, applicable standard shall be the edition current at date of receiving bids.
- H. ASTM C 1021 - Standard Practice for Laboratories Engaged in Testing of Building Sealants
- I. ASTM C 1077 - Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation
- J. ASTM C 1093 - Standard Practice for Accreditation of Testing Agencies for Masonry
- K. ASTM E 329 - Standard Specification for Agencies Engaged Construction Inspection and/or Testing
- L. ASTM E 543 - Standard Specification for Agencies Performing Nondestructive Testing

### **1.03 INSPECTION AND TESTING LABORATORY SERVICES**

- A. Unless required otherwise in the Contract, Owner shall appoint, employ, and pay for services of an independent firm to perform routine inspections and compliance for:
- B. Testing firm shall perform inspections, tests, and other services specified in individual specification sections and as required.

**END OF SECTION**

**SECTION 01 5000****TEMPORARY FACILITIES AND CONTROLS****PART 1 - GENERAL****1.01 SUMMARY****A. Section includes:**

1. Site mobilization plan.
2. Temporary services: Electrical, lighting, heating, ventilating, water, telephone, and facsimile.
3. Fencing, barriers, and other temporary controls.
4. Temporary erosion and sediment controls including NPDES-SWPPP requirements.
5. Construction facilities: Temporary buildings, sanitary facilities, access, and parking.
6. Protection of Work and existing facilities.
7. Project Sign
8. Bulletin board.
8. Waste Removal, Facilities and Services.

**B. Related documents and sections:**

1. Document 00 7200 - General Conditions:
  - a. Paragraph 3.13: Contractor's use of site..
  - b. Paragraph 3.15: Contractor's responsibility for cleaning.
  - c. Article 10: Safety precautions and programs.
2. Section 01 3100: Project Management and Coordination
3. Section 01 7000 - Execution Requirements: Progress cleaning.

**1.02 REFERENCES**

- A. NFPA 10 - Standard for Portable Fire Extinguishers.
- B. NFPA 241 - Safeguarding Building Construction, Alterations, and Demolition Operations.

**1.03 SITE MOBILIZATION PLAN**

- A. Coordinate locations for temporary facilities with Design Professional and Owner.
- B. Based upon information indicated on Drawings, prepare site mobilization plan in accordance with requirements for site logistics plan in Subparagraph 3.13.14 in Document 00 7200 General Conditions.
- C. Present 3 copies of plan at Pre-Construction Conference in accordance with Section 01 3100 - Project Management and Coordination.
- D. Prior to mobilization, revise and resubmit to Design Professional site mobilization plan incorporating final revisions made at Pre-Construction Conference and approved by Design Professional and Owner.

**1.04 TEMPORARY ELECTRICITY**

- A. Provide for temporary electricity used during construction. Provide service disconnect and overcurrent protection. Provide temporary feeder as required.
- B. Connect to existing power source at site. Do not disrupt Owner's need for continuous service. Provide service disconnect and overcurrent protection. Provide temporary feeder as required. Contractor will pay cost of electricity used. Exercise measures to conserve power.
- C. Provide power outlets for construction operations with branch wiring, distribution boxes, and flexible power cords as required.
- D. Permanent convenience receptacles may be utilized during construction.

#### **1.05 TEMPORARY LIGHTING**

- A. Provide lighting for construction operations in accordance with Paragraph 3.13 in the General Conditions. Lighting levels shall be appropriate for type and difficulty of work. Use these minimums as guidelines:
- B. After dark, provide security lighting for interior and exterior work and storage areas.
- C. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.
- D. Maintain lighting and provide routine repairs.
- E. Permanent building lighting may be utilized during construction. Document existing lighting system conditions at start of Work and submit report to Design Professional for approval before Work begins. Re-lamp, replace, or repair existing fixtures at end of job to return lighting to conditions documented prior to commencement of Work.

#### **1.06 TEMPORARY HEATING AND VENTILATING**

- A. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, and gases.
- B. Provide temporary fan units to maintain clean air for construction operations.
- C. Maintain minimum ambient temperature of 50 degrees F in interior areas where construction is in progress.

#### **1.07 TEMPORARY WATER SERVICE**

- A. Provide, maintain, and pay for suitable quality water service required for construction operations.
- B. Connect to existing water source at site for construction operations.
- C. Assume responsibility for temporary connections and water lines. Upon completion, remove temporary facilities.

#### **1.08 COMMUNICATIONS**

- A. Provide, maintain, and pay for telephone service to field office. School telephones will not be available to Contractor's workforce unless for an emergency.
- B. Provide, maintain, and pay for facsimile service to field office.

**1.09 FENCING**

- A. Provide temporary fencing around new building and materials storage site. Completely separate construction from existing facilities, student pathways and related exterior areas.
- B. Type: Panelized 6 foot high commercial grade chain link fence. Equip with vehicular and pedestrian gates with locks.

**1.10 BARRIERS AND PROTECTION**

- A. Security: Provide to protect Work and existing facilities from unauthorized entry, vandalism, and theft. Coordinate with Owner's security program and personnel.
- B. Barriers: Provide to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from construction operations.
- C. Barricades and covered walkways: As required by Design Professional, Owner and governing authorities for safe public access to existing buildings.
- D. Enclosures: Provide temporary, insulated, weather tight closures of exterior openings to provide acceptable working conditions, protect Work, and prevent unauthorized entry. Fit with lockable doors.
- E. Interior Enclosures- Construction: Framing and reinforced polyethylene sheet materials with closed joints and sealed edges at intersections with existing surfaces:
- F. Temporary partitions: Provide to separate work areas from existing building at point of connection and completed Work. Prevent penetration of dust and moisture into existing and completed portions of building.
- G. Emergency exits shall be maintained during construction. Provide separate barriers as appropriate.
- H. Protect existing detection devices such as smoke detectors and sensors from construction dust.
- I. Protect existing trees and plants designated to remain. Replace damaged plant material.
- J. Hand-water existing trees, plants and grass as necessary to maintain them viable in the event that existing irrigation system is made temporarily inoperable due to the Work. Replace dead plant material as required in the event of failure to comply with this provision.

**1.11 PROTECTION OF EXISTING AND INSTALLED WORK**

- A. Protect installed Work. Control activity in immediate work area.
- B. Provide temporary and removable protection for installed products.
- C. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, and movement of heavy objects with durable sheet materials.
- D. Prohibit traffic and storage on roof surfaces and landscaped areas.

**1.12 TEMPORARY FIRE PROTECTION**

- A. Install and maintain temporary fire protection components. Establish and follow procedures to protect against fire losses. Comply with NFPA 241.

- B. Fire extinguishers: Provide hand carried, portable, UL rated fire extinguishers of type and size recommended by NFPA 10 for building exposure conditions. Place in accessible, convenient locations in clear view with a minimum of one extinguisher per floor.
- C. Access: Maintain unobstructed access to fire hydrants, water supply, fire extinguishers, stairways, and access routes for fighting fires.
- D. Heating devices: Exercise care and monitor use of temporary heaters to minimize fire risk.
- E. Store combustible materials in fire-safe containers.
- F. Volatile products: Do not store paints, varnishes, paint removers, solvents, adhesives, cleaning rags, and other volatile products in building. Take precautionary measures to prevent fire hazards and spontaneous combustion.
- G. Cutting and welding: Approve in advance use of open flame cutting, welding, and soldering equipment. Ensure that safe conditions exist before granting approval.

### 1.13 TEMPORARY EROSION AND SEDIMENT CONTROLS

- A. Prevent temporary collection of sediment on sidewalks, parking lots, streets and driveways. Clean such surfaces promptly if such conditions exist due to the Work.
- B. National Pollution Discharge Elimination System (NPDES) permit and procedures for preparing a Storm Water Pollution Prevention Plan (SWPPP).
  - 1. Contractor shall determine whether Project requires an EPA NPDES storm water discharge permit in conformance with all regulations governing the disturbance of construction site areas.
  - 2. If storm water discharge permit is required, then both Contractor and Owner shall be designated as separate permittees and the Contractor shall do the following:
    - a. Prepare a Storm Water Pollution Prevention Plan (SWPPP) document as necessary to ensure compliance with any and all NPDES construction storm water permitting plan requirements.
    - b. Prepare and submit all EPA documentation and forms required of Contractor for permit.
    - c. Assist Owner with preparation and submittal of all EPA documentation and forms specifically required of Owner for permit. Provide all required project-related information to Owner as necessary.
    - d. At Final Completion of Project, Contractor shall complete and submit documentation to EPA as required and to Design Professional as part of Project Closeout documentation package. See Section 01 78 00 of Specifications.
  - 3. If a storm water discharge permit is not required, then the Contractor shall submit to the Design Professional and Owner prior to mobilization a signed statement containing specific written justification why such permit is not required on the Project.
  - 4. The Contractor shall manage the discharge of storm water from the site in accordance with NPDES permit and the provisions of the SWPPP. The Contractor shall be responsible for installing and maintaining any necessary storm water control measures in accordance with control device manufacturer's recommendations and the provisions of the SWPPP. The Contractor shall monitor the suitability of the designated control measures and management practices to achieve the storm water quality provisions of the NPDES permit, and shall make any necessary changes to the controls and practices in order to meet the permit requirements. The Contractor shall be responsible for updating the SWPPP and maintaining all records related to the SWPPP. A copy of the approved SWPPP shall be kept on the jobsite at all times. Contractor shall be liable for all fines and construction delays resulting from any governmental agency enforcement



action due to failure by the Contractor to satisfy the above requirements.

5. Contractor is responsible for payment of all applicable fees and permits related to SWPPP approval process and for full cost of control measures for the Project.

#### **1.14 ACCESS**

- A. Refer to Drawings for location of acceptable access routes and site entrances. Protect existing curbs and walks traversed by construction vehicles from damage.
- B. Identify access to Contractor's work and office area with appropriate signs so that delivery personnel and others may contact Contractor. School office shall not be used as destination for Contractor's deliveries.
- C. Prevent unauthorized personnel from accessing school building or site through Contractor's work area.

#### **1.15 FIELD FACILITIES**

- A. Provide and maintain a weathertight, fully equipped field office. Provide work station for use of Design Professional during field inspections.
- B. Provide space for project meetings with table and chairs to accommodate at least 6 persons.
- C. Provide and maintain storage sheds and other facilities as required.
- D. Arrange for parking for work force in manner approved by Owner. Do not limit Owner's requirements for parking.

#### **1.16 TEMPORARY SANITARY FACILITIES**

- A. Provide and maintain daily in clean and sanitary condition required sanitary facilities for work force. Provide at time of project mobilization
- B. New and existing toilet facilities shall not be used by work force.

#### **1.17 DRINKING WATER**

- A. Provide independent source of drinking water for workforce. School drinking fountains shall not be routinely available for Contractor's use.

#### **1.18 PROJECT SIGNS**

- A. Project Construction Sign.
  1. Furnish project sign and erect on site at location designated by Design Professional.
  2. Construction: 3/4 inch exterior plywood bolted to 4 by 4 inches treated wood posts.
  3. Sign shall be prepared by professional sign painter using either painted exhibit lettering or die cut adhesive applied letters.
  4. Design, style and proportional sizes of lettering, color, and text shall be as shown following this section.
  5. Allow no other signs to be displayed without approval of Design Professional or as required by Owner.
  6. PSFA Project Sign to be updated by PSFA and approved with new information.

**1.19 BULLETIN BOARD**

- A. Furnish and maintain bulletin board adjacent to field office. Display the following throughout construction period:
  - 1. State wage rates.
  - 2. Safety requirements.
  - 3. Official notices and announcements.

**1.20 WASTE REMOVAL**

- A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- B. Provide containers with lids. Remove trash from site periodically.

**1.21 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS**

- A. Remove temporary utilities, equipment, facilities, materials, prior to Substantial Completion inspection.
- B. Remove underground installations to a minimum depth of 2 feet. Grade site as indicated.
- C. Clean and repair damage caused by installation or use of temporary work.
- D. Restore new permanent facilities used during construction to specified condition.

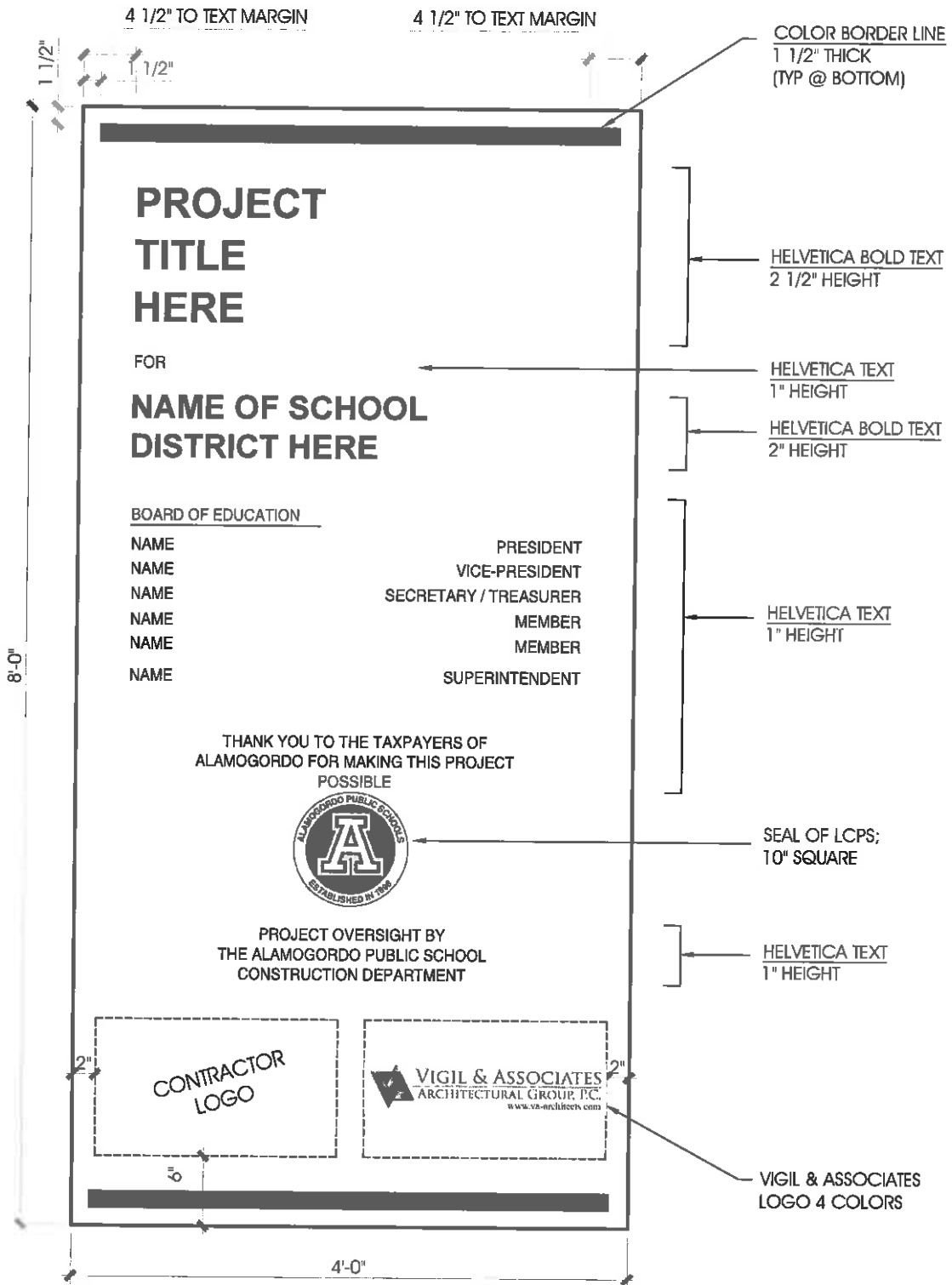
**PART 2 – PRODUCTS**

Not used

**PART 3 - EXECUTION**

Not used.

**END OF SECTION  
(PROJECT SIGNS TO FOLLOW)**



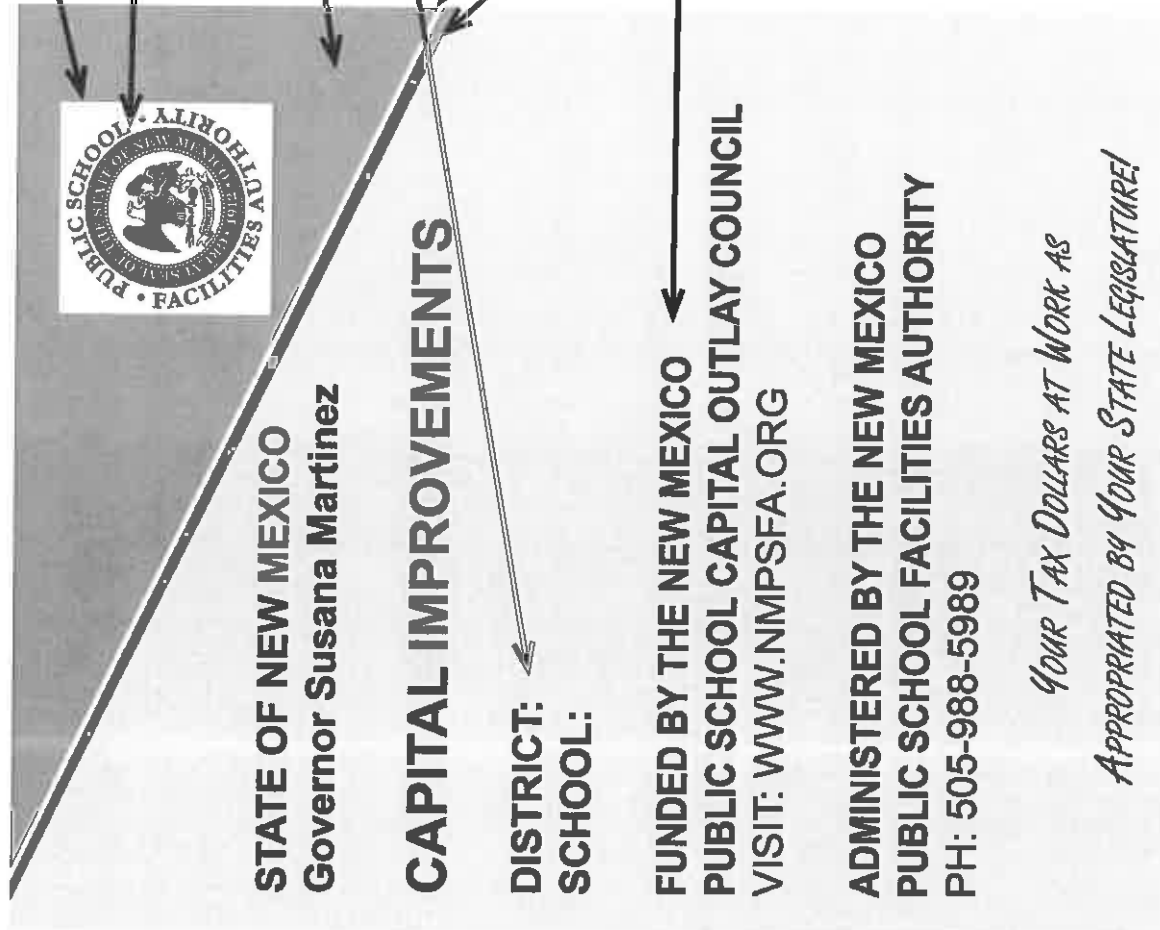
# PROJECT SIGN

SCALE: 1"=1'-0"

**NOTES:**

1. SIGN TO HAVE WHITE BACKGROUND WITH BLACK TEXT.
2. CONFIRM TEXT WITH OWNER PRIOR TO FABRICATION.





Black outline

Round seal with black lettering & graphics on round white background (see enlarged detail next sheet)

Red background

District & school names here

2 inch wide white strip

1 inch wide red stripe

Black lettering on yellow background

SIGN DIMENSIONS: 4' W x 5' L

Yellow: Dunn-Edwards DEA117

Red: Dunn-Edwards DEA104

White: Dunn-Edwards DEW380

**STATE OF NEW MEXICO**  
Governor Susana Martinez

## **CAPITAL IMPROVEMENTS**

**DISTRICT:**  
**SCHOOL:**

**FUNDED BY THE NEW MEXICO**  
**PUBLIC SCHOOL CAPITAL OUTLAY COUNCIL**  
VISIT: [WWW.NMPSFA.ORG](http://WWW.NMPSFA.ORG)

**ADMINISTERED BY THE NEW MEXICO**  
**PUBLIC SCHOOL FACILITIES AUTHORITY**  
PH: 505-988-5989

*Your Tax Dollars at Work as*  
*APPROPRIATED BY YOUR STATE LEGISLATURE!*

01 5001-1



Black outline around seal

11 inch diameter seal



**SECTION 01 6300****PRODUCT SUBSTITUTION PROCEDURES****PART 1 - GENERAL****1.01 SUMMARY**

- A. Section includes requirements for product options and substitution procedures.
- B. Related documents and sections:
  - 1. Section 00 7200 General Conditions: Paragraph 3.4 – Labor and Materials

**1.02 SUBSTITUTIONS**

- B. During bidding, Design Professional will consider written requests from qualified offerors, subcontractors, and manufacturers for substitutions.
  - 1. Submit separate request for each substitution with Form 01 6301 - Prior Approval Substitution Request Form. Copy of form follows this Section.
  - 2. Submit substitution request in accordance with procedures and time limitations stated in Document 00 2113 - Instructions to Bidders.
  - 3. Substitutions approved during bidding will be listed in Addenda.
- C. After Contract award:
  - 1. After signing of Agreement Between Owner and Contractor, Design Professional will consider written requests for substitutions in accordance with Subparagraph 3.4.2 of the General Conditions.
  - 2. Submit separate request for each substitution with Form 01 6302 - Contractor Substitution Request Form. Copy of form follows this Section. Provide data documenting need for substitution and substantiating compliance of proposed product with Contract Documents. Include proposed changes to contract amount and time if substitution is accepted.
- C. Substitutions may be considered after Contract award when:
  - 1. A product becomes unavailable through no fault of the Contractor.
  - 2. There will be a delay in schedule without a substitution through no fault of the Contractor.
  - 3. At sole discretion of the Architect/Owner.
- D. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request including justification as per paragraph C. above, or when acceptance will require revision to the Contract Documents.
- E. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
- F. A request for substitution constitutes a representation that the submitter:
  - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.

2. Will provide the same warranty for the substitution as for the specified product.
3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
4. Waives claims for additional costs or time extension that may subsequently become apparent.

G. Substitution Submittal Procedure:

1. Submit two copies of request for substitution for consideration. Limit each request to one proposed substitution, Any catalogs or brochures shall be highlighted to indicate the item desired for substitution.
  - a. Prior Approval Requests made during bidding and are less than 20 pages may be emailed. Larger documents must be delivered as hard copies.
2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.
3. The Architect will notify Contractor in writing of decision to accept or reject request.

**PART 2 – PRODUCTS**

Not used.

**PART 3 - EXECUTION**

Not used.

**END OF SECTION - FORMS FOLLOW**

**PRIOR APPROVAL SUBSTITUTION REQUEST FORM**

The undersigned, qualified bidder, subcontractor, manufacturer, or supplier requests that the following product be accepted for use in the Project

PRODUCT: \_\_\_\_\_

MODEL NO.: \_\_\_\_\_

MANUFACTURER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

The above product would be used in lieu of

PRODUCT: \_\_\_\_\_

specified in

SECTION: \_\_\_\_\_

PARAGRAPH: \_\_\_\_\_

Attached are the following circled items:

1. Product description including specifications, performance and test data, and applicable reference standards.
2. Drawings.
3. Photographs.
4. Samples.
5. Tabulated comparison with specified product.
6. For items requiring color selections, full range of manufacturer's color samples.
7. Documentation for reason of request.
7. Other: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

The undersigned certifies that the following statements are correct. Explanations for all items which are **not** true are attached.



- 1. Proposed substitution has been thoroughly investigated and function, appearance, and quality meet or exceed that of specified product. TRUE FALSE
- 2. Same warranty will be provided for substitution as for specified product. TRUE FALSE
- 3. **No** aspect of Project will require re-design. TRUE FALSE
- 4. Use of substitution will **not** adversely affect:
  - a. Dimensions shown on Drawings. TRUE FALSE
  - b. Construction schedule and date of completion. TRUE FALSE
  - c. Work of other trades. TRUE FALSE
- 5. Maintenance service and replacement parts for proposed substitution will be readily available in Alamogordo area. TRUE FALSE
- 6. Proposed substitution does **not** contain asbestos in any form. TRUE FALSE
- 7. **NOTE:** Any additional costs for modifying project design, which subsequently becomes apparent caused by use of proposed substitution, will be paid for by Contractor.

Submitted By:

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

NAME OF PERSON SUBMITTING REQUEST: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

**CONTRACTOR SUBSTITUTION REQUEST FORM**

The undersigned, as Contractor for the above Project, requests that the following product be accepted for use in the Project

PRODUCT: \_\_\_\_\_

MODEL NO.: \_\_\_\_\_

MANUFACTURER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

The above product would be used in lieu of

PRODUCT: \_\_\_\_\_

specified in

SECTION: \_\_\_\_\_

PARAGRAPH: \_\_\_\_\_

Reason for substitution request: \_\_\_\_\_

Attached are the following circled items:

1. Product description including specifications, performance and test data, and applicable reference standards.
2. Drawings.
3. Photographs.
4. Samples.
5. Tabulated comparison with specified product.
6. For items requiring color selections, full range of manufacturer's color samples.
7. Documentation of reason for request.
8. Cost data for comparing proposed substitution with specified product.
9. Other: \_\_\_\_\_

The undersigned certifies that the following statements are correct. Explanations for all items which are **not** true are attached.

1. Proposed substitution has been thoroughly investigated and function, appearance, and quality meet or exceed that of specified product.

TRUE FALSE

- 2. Same warranty will be provided for substitution as for specified product. TRUE FALSE
- 3. **No** aspect of Project will require re-design. TRUE FALSE
- 4. Use of substitution will **not** adversely affect:
  - a. Dimensions shown on Drawings. TRUE FALSE
  - b. Construction schedule and date of completion. TRUE FALSE
  - c. Work of other trades. TRUE FALSE
- 5. Maintenance service and replacement parts for proposed substitution will be readily available in Santa Fe area. TRUE FALSE
- 6. Proposed substitution does **not** contain asbestos in any form. TRUE FALSE
- 7. All changes to Contract Sum related to use of proposed substitution are included in price listed below. Contractor waives claims for additional costs related to acceptance of substitution which may subsequently become apparent. TRUE FALSE
- 8. Costs of modifying project design caused by use of proposed substitution which subsequently become apparent will be paid for by Contractor. TRUE FALSE

If substitution request is accepted:

Contract Sum will be [decreased] [increased] by \$ \_\_\_\_\_

Contract Time will be [decreased] [increased] by \_\_\_\_\_ calendar days.

Submitted By:

CONTRACTOR: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

NAME OF PERSON SUBMITTING REQUEST: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

**SECTION 01 7000****EXECUTION REQUIREMENTS****PART 1 - GENERAL****1.01 SUMMARY**

- A. Section includes:
  - 1. Basic requirements for examination, preparation and installation.
  - 2. Requirements and limitations for cutting and patching incidental to work, including excavation and backfilling, and as required making several parts fit together.
  - 3. Progress cleaning.
  
- B. Related documents and sections:
  - 1. General Conditions:
    - a. Paragraph 3.13: Contractor's responsibilities regarding use of the site.
    - b. Paragraph 3.14: Contractor's responsibilities regarding cutting and patching operations.
    - c. Article 12: Uncovering and correction of work.
  - 2. Section 01 5000 - Temporary Facilities and Controls: Temporary barriers and enclosures.
  - 3. Section 01 7700 - Closeout Procedures: Final cleaning.
  - 4. Section 02 4100 - Demolition: Minor demolition required to accommodate new construction and renovation.

**1.02 SUBMITTALS**

- A. See Section 01 3300 - for submittal procedures.
  
- B. Survey work: Submit name, address, and telephone number of Surveyor before starting survey work.
  - 1. On request, submit documentation verifying accuracy of survey work.
  - 2. Submit a copy of site drawing signed by the Land Surveyor, that the elevations and locations of the work are in conformance with Contract Documents.
  - 3. Submit surveys and survey logs for the project record.
  
- C. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
  - 1. Structural integrity of any element of Project.
  - 2. Integrity of weather exposed or moisture resistant element.
  - 3. Efficiency, maintenance, or safety of any operational element.
  - 4. Visual qualities of sight exposed elements.
  - 5. Work of Owner or separate Contractor.
  - 6. Include in request:
    - a. Identification of Project.
    - b. Location and description of affected work.
    - c. Necessity for cutting or alteration.
    - d. Description of proposed work and products to be used.
    - e. Effect on work of Owner or separate Contractor.
    - f. Written permission of affected separate Contractor.

g. Date and time work will be executed.

D. Project Record Documents: Accurately record actual locations of capped and active utilities.

#### 1.04 QUALIFICATIONS

A. For survey work, employ a land surveyor registered in the State in which the Project is located and acceptable to Architect. Submit evidence of Surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate.

#### 1.05 PROJECT CONDITIONS

- A. Use of explosives is not permitted.
- B. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.
- C. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.
- D. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere.
- E. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
- F. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.
- G. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.
- H. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.
- I. Erosion and Sediment Control: Plan and execute work by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.

#### 1.06 COORDINATION

- A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. Notify affected utility companies and comply with their requirements.
- C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

- F. Coordinate completion and clean-up of work of separate sections.
- G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

### 1.03 PROJECT RECORD DOCUMENTS

- A. Maintain on site, one set of the following record documents; record actual revisions to work:
  - 1. Contract Drawings.
  - 2. Specifications.
  - 3. Addenda.
  - 4. Change Orders and other modifications to the Contract.
  - 5. Reviewed submittals.
- B. Store Record Documents separate from documents used for construction. Label "Project Record Documents".
- C. Record information concurrent with construction progress. Use erasable colored pencil. Date all entries. Call attention to entry by circling area affected.
- D. Specifications: Legibly mark and record in each section description of actual products installed, including the following:
  - 1. Manufacturer's name and product model and number.
  - 2. Product substitutions or alternates utilized.
  - 3. Changes made by Addenda and modifications.
- E. Contract Drawings and shop drawings: Legibly mark each item to record actual construction including:
  - 1. Actual items of equipment and system components installed.
  - 2. Actual locations of components and routing of piping and raceways.
  - 3. Measured horizontal and vertical locations of underground water, sewer, irrigation, electrical, and other utilities and appurtenances, referenced to permanent surface improvements.
  - 4. Measured locations of piping, raceways, and other items concealed in construction, referenced to visible and accessible features.
  - 5. Field changes of dimension and detail.
  - 6. Details not on original Contract Drawings.
  - 7. Accurately record actual locations of capped and active utilities.
- F. Documents will be reviewed by Architect at each submittal of Application for Payment to ensure that entries are current.
- G. Submit documents to Architect prior to or in conjunction with submission of Notice of Substantial Completion.

### 1.02 LOCATION OF UNDERGROUND UTILITIES

- A. The Contractor shall arrange for all spotting of lines by utility companies in advance of any excavation work.

- B. The Contractor shall arrange for spotting of lines by Owner's forces in advance of any excavation work on the school site. Procedures for arranging for line spots and obtaining clearance prior to excavation shall be strictly adhered to.

## **PART 2 - PRODUCTS**

### **2.01 MATERIALS**

- A. Patching and replacement materials: Those used for original installation.
- B. Product substitutions: For any proposed change in patching materials, submit request for substitution in accordance with Section 01 6300 - Product Substitution Procedures.

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- E. Verify that utility services are available, of the correct characteristics, and in the correct locations.

### **3.02 PREPARATION**

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

### **3.03 LAYING OUT THE WORK**

- A. Verify locations of survey control points prior to starting work.
- B. Promptly notify Architect of any discrepancies discovered.
- C. Protect survey control points prior to starting site work; preserve permanent reference points during construction.
- D. Promptly report to Architect the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.
- E. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect.

- F. Utilize recognized engineering survey practices.
- G. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
  - 1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
  - 2. Grid or axis for structures.
  - 3. Building foundation, column locations, and ground floor elevations.
- H. Periodically verify layouts by same means.
- I. Maintain a complete and accurate log of control and survey work as it progresses.

### 3.05 GENERAL INSTALLATION REQUIREMENTS

- A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement. Where manufacturers' instructions conflict with specifications, notify Architect. Do not proceed until clarification is received.
- B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
- C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
- D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
- E. Make neat transitions between different surfaces, maintaining texture and appearance.
- F. Remove excess materials such as adhesive, grout, mortar, and sealants, from finished surfaces in a manner which does not stain, corrode, disfigure, or otherwise damage finished surface.
- G. Replace deformed, scratched, cracked, broken, or otherwise damaged products as result of installation.
- H. Follow Indoor Air Quality Management Plan as required by Division 1 Section "Sustainable Design Requirements."

### 3.06 CUTTING AND PATCHING

- A. Whenever possible, execute the work by methods that avoid cutting or patching.
- B. Perform whatever cutting and patching is necessary to:
  - 1. Complete the work.
  - 2. Fit products together to integrate with other work.
  - 3. Provide openings for penetration of mechanical, electrical, and other services.
  - 4. Match work that has been cut to adjacent work.
  - 5. Repair areas adjacent to cuts to required condition.
  - 6. Repair new work damaged by subsequent work.
  - 7. Remove samples of installed work for testing when requested.
  - 8. Remove and replace defective and non-conforming work.
  - 9. Uncover in order to install improperly sequenced work.
  - 10. Execute patching to complement adjacent work.
- C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing.
- D. Employ skilled and experienced installer to perform cutting for weather exposed and moisture



resistant elements, and sight exposed surfaces.

- E. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
- F. Restore work with new products in accordance with requirements of Contract Documents.
- G. Size openings to exactly fit penetrating item plus allowance for sealant. Form edges of hole even and smooth.
- H. Drill penetrations through concrete for conduit and piping.
- I. Drill round hole and saw cut rectangular openings in concrete masonry units. Where block is broken or chipped in process, remove complete face of exposed block and replace with partial block.
- J. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- K. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07 8400 - Firestopping, to full thickness of the penetrated element.
- L. Patching:
  - 1. Restore work with new products meeting requirements of Contract Documents.
  - 2. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
  - 3. Match color, texture, and appearance.
  - 4. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

### 3.07 ASPHALT PAVEMENT [IF APPLICABLE]

- A. Where existing or new pavement is damaged from construction operations, cut to install new underground utilities and where existing items are removed from paved areas:
  - 1. Cut pavement with saw or other means to provide neat, straight joints.
  - 2. Where existing pavement is damaged by removals, remove additional pavement to allow clean cuts.
  - 3. Backfill and sufficiently compact removal area prior to placement of pavement.
  - 4. Place pavement to match existing materials and thicknesses.
- B. Immediately after placement, protect new pavement from mechanical damage.

### 3.08 ROOF PENETRATIONS

- A. New roofing:
  - 1. Coordinate, locate and schedule roof penetrations prior to installation of new roof system.
  - 2. Coordinate roof penetrations such that installation does not void roof warranty.
- B. Existing roofing: Prior to penetrating, cutting, and patching existing roofing, verify with Owner if roof is under warranty. If warranted, employ roof contractor certified by manufacturer of roof system, make required inspections and notifications, and perform cutting and patching as required to ensure warranty is not violated. Protect building interior during operations and return roof to weathertight condition after the work is performed.

### 3.09 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
  - B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
  - C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
  - D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.
- 3.10 PROTECTION OF INSTALLED WORK**
- A. Protect installed work from damage by construction operations.
  - B. Provide special protection where specified in individual specification sections.
  - C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
  - D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
  - E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
  - F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
  - G. Remove protective coverings when no longer needed; reuse or recycle plastic coverings if possible.

**END OF SECTION**

**SECTION 01 7500**  
**STARTING AND ADJUSTING**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. Section includes: General procedures for starting, monitoring, and adjusting items of equipment and complete systems.
- B. Related sections:
  - 1. Section 01 7800 - Closeout Submittals: Operation and maintenance manuals.
  - 2. Section 23 0593 - Testing, Adjusting, and Balancing: Balancing of HVAC system.
  - 3. Section 01 3300 - Submittal Procedures: HVAC & Controls Construction Checklists.
  - 4. Section 01 7800 - Closeout Submittals: Operation and maintenance manuals.
  - 3. Section 23 0593 - Testing, Adjusting, and Balancing: Balancing of HVAC system.

**PART 2- PRODUCTS**

Not used.

**PART 3 - EXECUTION**

**3.01 STARTING OF SYSTEMS**

- A. Submit written Construction Checklists in accordance with Section 01 3300 - Submittal Procedures that equipment and systems have been properly installed and are functioning correctly.

**3.02 DEMONSTRATION AND INSTRUCTION**

- A. See Section 01 7900 - Demonstration and Training.

**3.03 ADJUSTING**

- A. Testing, adjusting, and balancing HVAC systems: See Section 23 0593.

**END OF SECTION**

**SECTION 01 7700****CLOSEOUT PROCEDURES****PART 1 - GENERAL****1.01 SUMMARY****A. Section includes:**

1. Substantial Completion Procedures.
2. Final Completion Procedures
3. Systems Start-Up
4. Demonstration and Instruction.
5. Adjusting.
6. Final cleaning.
7. Closeout procedures.
8. Maintenance.
9. Inspection held immediately prior to end of one year correction period.

**B. Related documents and sections:**

1. Document 00 7200 - General Conditions of the Contract,
  - a. Paragraph 9.8: Substantial Completion.
  - b. Paragraph 9.9: Partial occupancy.
  - c. Paragraph 9.10: Closeout Requirements
  - d. Paragraph 9.11: Final completion and final payment.
  - e. Subparagraph 12.2.2.1: One year correction period for Contractor to correct defective work.
  - f. Paragraph 3.13: Use of site.
2. Section 01 7000 - Execution Requirements: Progress cleaning.
3. Section 01 7500 – Starting and Adjusting: Starting and adjusting items of equipment and complete systems.
4. Section 01 7800 - Closeout Submittals: Submittal of project record documents, operation and maintenance manuals, warranties, certificates of inspection, extra materials, and keys.
5. Section 01 7900 – Demonstration and Training: Demonstrations and training for Owner's personnel.

**1.02 SUBSTANTIAL COMPLETION PROCEDURES**

- A. Prior to or in conjunction with submission of Contractor's request for Substantial Completion, submit the items specified in Section 01 7800 - Closeout Procedures:
- B. Comply with Document 00 7200 - General Conditions of the Contract, Paragraph 9.8 for issuance of Certificate of Substantial Completion.

**1.03 FINAL COMPLETION PROCEDURES**

- A. Follow procedures as outlined in Article 9 of the General Conditions.

**PART 2 - PRODUCTS**

Not Used.

**PART 3 - EXECUTION****3.01 SYSTEM STARTUP**

- A. Coordinate schedule for start-up of various equipment and systems.
- B. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.
- C. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.
- D. Verify that wiring and support components for equipment are complete and tested.
- E. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.
- F. Submit a written report that equipment or system has been properly installed and is functioning correctly.

**3.02 DEMONSTRATION AND INSTRUCTION**

- A. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at scheduled time, at equipment location.
- B. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.
- C. Provide a qualified person who is knowledgeable about the Project to perform demonstration and instruction of owner personnel.
- D. See Section 01 7900 - Demonstration and Training.

**3.03 ADJUSTING**

- A. Adjust operating products and equipment to ensure smooth and unhindered operation.

**3.04 FINAL CLEANING**

- A. Execute final cleaning prior to final inspection by methods and with materials and equipment suitable for commercial/institutional building maintenance. See Paragraph 3.13 – General Conditions.
- B. Use cleaning materials that are nonhazardous.
- C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
- D. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- E. Clean filters of operating equipment.
- F. Clean debris from roofs, gutters, downspouts, and drainage systems.

- G. Clean site; sweep paved areas, rake clean landscaped surfaces.
- H. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

### **3.05 CLOSEOUT PROCEDURES**

- A. Make submittals that are required by governing or other authorities.
  - 1. Provide copies to Architect and Owner.
- B. Accompany Project Coordinator on preliminary inspection to determine items to be listed for completion or correction in Contractor's Notice of Substantial Completion.
- C. Notify Architect when work is considered ready for Substantial Completion.
- D. Submit written certification that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's review.
- E. Correct items of work listed in executed Certificates of Substantial Completion and comply with requirements for access to Owner-occupied areas.
- F. Notify Architect when work is considered finally complete.
- G. Complete items of work determined by Architect's final inspection.

### **3.06 MAINTENANCE**

- A. Provide service and maintenance of components indicated in specification sections.
- B. Maintenance Period: As indicated in specification sections or, if not indicated, not less than one year from the Date of Substantial Completion or the length of the specified warranty, whichever is longer.
- C. Furnish service and maintenance of components indicated in specification sections during the warranty period.
- D. Examine system components at a frequency consistent with reliable operation. Clean, adjust, and lubricate as required.
- E. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by the manufacturer of the original component.
- F. Maintenance service shall not be assigned or transferred to any agent or subcontractor without prior written consent of the Owner.

**END OF SECTION**

**SECTION 01 7800****CLOSEOUT SUBMITTALS****PART 1 – GENERAL****1.01 SUMMARY**

- A. Section includes procedures for preparing and submitting closeout submittals:
1. Project Record Documents.
  2. Operation and maintenance manuals and data.
  3. Warranties.
  4. Insurance information.
  5. Certificates of inspection and compliance.
  6. Maintenance tools.
  7. Extra materials.
  8. Keys.
- B. Related documents and sections:
1. Document 00 7200 - General Conditions of the Contract:
    - a. Paragraph 3.5: Contractor's warranty that Work is of good quality and free from defects and conforms to Contract Documents.
    - b. Subparagraph 9.9.1: Commencement of warranties and correction period.
    - c. Subparagraph 9.10.1: Closeout requirements
    - d. Paragraph 9.11: Affidavits and Certificates required before Final Payment
    - e. Subparagraph 12.2.2.1: One year correction period for Contractor to correct defective work.
  2. Section 01 3300 - Submittal Procedures: Submittal of shop drawings, product data, samples, installation instruction, reports and other submittals during construction prior to closeout.
  3. Section 01 7500 – Starting and Adjusting: Starting and adjusting items of equipment and complete systems.
  4. Section 01 7700 – Closeout Procedures: Requirements for achieving Substantial Completion and Final Completion.
  5. Section 01 7801 – Equipment Inventory and Roofing Data Collection: Requirements for completing equipment inventory and roofing data submittals.

**1.02 OPERATION AND MAINTENANCE DATA**

- A. Provide operation and maintenance data for:

1. Mechanical equipment, systems, and controls specified in Divisions 21, 22, and 23.
  2. Electrical equipment, systems, and controls specified in Division 26.
  3. Other equipment and systems for which operation and maintenance data is requested in individual specification sections.
- B. Provide written sequence of operations for each automated building system, including those related to the following:
2. Life safety system(s).
  3. Electrical system(s).
  3. Mechanical system(s).
  4. Other automated building systems and components.
- C. Submission:
1. Submit data to Design Professional in one or more binders.
  2. Submit for review one draft copy 30 days prior to need date or as otherwise specified. This copy will be returned after review with Design Professional's comments. Revise content as required.
  3. Once approved, submit copies of final operation and maintenance manuals as follows:
    - a. Two (2) hard copies and two (2) electronic disk(s) of entire manual to District.
    - b. One (1) electronic disk of entire manual to PSFA.
    - c. One (1) electronic disk of entire manual to Architect.
  4. All manuals shall be submitted prior to or in conjunction with Contractor's request for Substantial Completion and prior to demonstration and training session.
- D. Contents:
1. Appropriate design criteria.
  2. Equipment parts list.
  3. Equipment inventory data (on Owner-provided electronic forms) and parts lists.
  4. Roofing data (on Owner-provided electronic forms).
  5. Operating instructions.
  6. Maintenance instruction for equipment and finishes.
  7. Shop drawings and product data.
  8. Written sequence of operations for each automated building system including those related to the following:
    - a. Life safety system(s).
    - b. Electrical system(s).



- c. Mechanical system(s).
  - 9. Testing, balancing, and other field quality reports.
  - 10. Copies of warranties.
  - 11. Directory listings
  - 12. Other material and information as indicated in individual specification sections and as necessary for operation and maintenance by Owner's personnel.
- E. Form:
- 1. Hard copies of manuals shall be 8-1/2 x 11 inch text pages bound in three ring expansion binders with a hard durable plastic cover. All documents to be originals unless otherwise noted.
  - 2. Prepare binder covers with printed subject title of manual, title of project, date, and volume number when multiple binders are required. Printing shall be on face and spine.
  - 3. Internally subdivide the binder contents with divider sheets with typed tab titles under reinforced plastic tabs. Place dividers at beginning of each chapter, part, section, and appendix.
  - 4. Provide a table of contents for each volume.
  - 5. Provide directory listing as appropriate with names addresses, and telephone numbers of Design Professional, Contractor, subcontractors, equipment suppliers, and nearest service representatives. Provide emergency 24-hour service contact information for all subcontractors, service contractors and principal vendors.
  - 6. Provide electronic data disk(s) with each manual including all data required to be submitted electronically. Include hard copy with each manual.

### 1.03 WARRANTIES

- A. Provide duplicate notarized copies of special and extended warranties as required by individual specifications sections.
- B. Submit warranties to Design Professional prior to or in conjunction with submission of Notice of Substantial Completion.
- C. Execute and assemble warranties from subcontractors, suppliers, and manufacturers.
- D. Provide a separate binder containing all the warranties. Provide Table of Contents and assemble in three ring binder with a hard durable plastic cover. Internally subdivide the binder contents with permanent page dividers, with tab titling clearly typed under reinforced laminated plastic tabs.
- E. All warranties shall be the dated from the date of Substantial Completion.
- F. For items of work delayed beyond date of Substantial Completion, provide updated warranty submittal within ten days after acceptance, listing date of acceptance as start of warranty period.

**1.04 CERTIFICATES OF INSPECTION AND COMPLIANCE**

- A. For inspections throughout the construction period required by regulatory agencies, obtain and maintain certificates issued to show compliance.
- B. Assemble certificates and any formal written evidence of regulatory compliance in three ring binder with table of contents and submit to Design Professional prior to or in conjunction with submission of Notice of Substantial Completion.
- C. Certificate of Occupancy: Prior to Substantial Completion, obtain from authorities having jurisdiction Certificate of Occupancy. Submit with Notice for Substantial Completion.

**1.05 INSURANCE INFORMATION**

- A. Submit prior to or in conjunction with submission of Contractor's request for Substantial Completion information regarding insurance including change over requirements and insurance extensions.

**1.06 MAINTENANCE TOOLS**

- A. Provide any hardware and software tools (including software keys) that are proprietary to the mechanical systems and that may be necessary for service during their lifecycle.
- B. Tools shall be as provided or recommended by manufacturers of installed equipment and systems. Types and sizes shall be as specifically required for installed products.
- C. Tools shall be available and their use demonstrated during training sessions specified in Section 01 7500 - Starting, Adjusting, and Demonstrating.
- D. Prior to, or concurrent with Contractor's request for Substantial Completion, deliver maintenance tools to Owner's representative. Prepare inventory of tools provided and obtain receipt from Owner's representative.

**1.07 EXTRA MATERIALS**

- A. Provide spare parts and maintenance materials in quantities specified in individual sections.
- B. Extra materials shall be produced by the same manufacturer of and compatible with the installed products.
- C. Prior to or concurrent with submission of Notice of Substantial Completion deliver extra materials in unopened containers to Owner's representative at designated storage area at project site and place in location as directed. Obtain receipt from Owner's representative.
- D. During one year correction period:
  - 1. Extra materials may be used by Contractor to replace expendable and normally worn parts.
  - 2. Extra materials used by Contractor for replacement of defective products shall be replaced at no additional cost to Owner.

**1.08 KEYS**

- A. Prior to or in conjunction with submission of Contractor's request for Substantial Completion, provide Owner with all keys for:
  - 3. Door hardware locks after re-keying in accordance with Section 08 7100 - Door Hardware.
  - 4. Access doors and panels.
  - 5. Electrical panel boards and other equipment.
- E. Provide a minimum of two keys for each lock.
- F. Clearly label each key as to function and location of lock.
- G. Obtain receipt from Owner's representative.
- E. Prior to, or in conjunction with Final Completion, return all keys lent out by Owner to Contractor for access to existing spaces, gates, etc. for the Work. Obtain receipt from Owner.

**PART 2 - PRODUCTS**

Not Used.

**PART 3 - EXECUTION**

Not Used.

**END OF SECTION**

**SECTION 02 2326****EXISTING ASBESTOS ASSESSMENT DATA****PART 1 - GENERAL****1.01 ASBESTOS ABETMENT STUDY(S)**

This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' reference and are intended to be used as a guide for the awarded GC for all required hazardous material abatement within each building. They are made available for the Bidders' reference and information but are not a warranty of existing conditions. These Documents and its attachments are considered part of the Contract Documents. Neither the Owner(s) nor the Architect will guarantee or attest to the accuracy of information contained in the study. However, all recommendations for hazardous material removal shall be followed. If the Bidding or Proposing Contractor is not satisfied with the report or requires any supplemental information, the Bidder is welcome to coordinate their own asbestos survey on the facility at their own expense within the proposed base bid. No additional time or days will be given to the awarded Contractor.

**1.02 Environmental Review Report(s) for bidding Project(s), are referenced below and are included in this project manual following this section:**

- A. An asbestos abatement study for this project has been prepared by Havona Environmental, Albuquerque, NM. Dated March 20, 2020. This study is provided following this sheet for additional information.

**1.03 Related Requirements:**

1. Division 02 Section "Selective Demolition".
2. Asbestos abatement removal requirements as noted in the Drawings.

**END OF SECTION**

**(ASBESTOS ABATEMENT REPORT TO FOLLOW)**



Havona Environmental  
P.O. Box 35848  
Albuquerque, NM 87176

Phone: 505-232-9533  
Fax: 505-212-0069

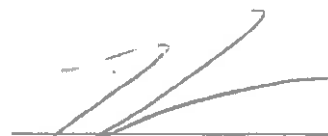
March 20, 2020

## **ASBESTOS INSPECTION REPORT**

**Sacramento Elementary School**

Prepared For:

**Alamogordo Public Schools**  
1211 Hawaii Ave.  
Alamogordo, NM 88310



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Cissy Puma, CEI  
Environmental Consultant



Havona Environmental  
P.O. Box 35848  
Albuquerque, NM 87176

Phone: 505-232-9533  
Fax: 505-212-0069

## ASBESTOS INSPECTION REPORT

**Date:** March 20, 2020

**Client:** Alamogordo Public Schools  
1211 Hawaii Ave.  
Alamogordo, NM 88310  
  
Attn: Justin Burks

**Site Address:** Sacramento Elementary School  
300 Alaska Avenue  
Alamogordo, NM 88310

**Site Information:** The site consists of an elementary school building that is approximately 50,000 square feet and was originally constructed in 1957 with an addition in the 1980's. The building is currently unoccupied and scheduled for demolition.

**Date of Inspection:** March 2, 2020

**Inspectors:** Cissy Puma (Certification # ASO120KNMPCP22063)  
Scott Puma (Certification #ASO120KNMPSP22062)

## **INTRODUCTION**

Havona Environmental, Inc. is pleased to present you with the results from the asbestos inspection conducted at Sacramento Elementary School located at 300 Alaska Avenue in Alamogordo, New Mexico. Havona Environmental was authorized by Justin Burks, Chief of Capital Outlay and Facilities, to conduct the inspection. All work performed at this site was done by accredited AHERA asbestos inspectors and in general accordance to all applicable regulations.

On March 2, 2019 Cissy Puma and Scott Puma, AHERA accredited asbestos inspectors with Havona Environmental, conducted the inspection. The purpose of the inspection was to identify, map, and quantify the suspect asbestos containing materials from the interior and exterior of the school building. Some areas were not accessible at the time of the inspection.

## **SITE INFORMATION**

The site consists of an elementary school building that was originally constructed in 1957 and added onto in the 1980's. The school building is approximately 50,000 square feet. The building is currently unoccupied and scheduled for demolition.

### Original Building

The interior of the original building consists of brick, plaster, textured drywall, CMU block, and ceramic for the walls; lay in ceiling tile, plaster, spray applied ceiling texture, glued on ceiling tile, and textured drywall for the ceilings; and carpet, vinyl floor tile, ceramic, wood, and concrete for the floors. The exterior of the building is brick, concrete, and CMU block with a TPO roof system.

At the original building, a total of seventy-four samples were collected of twenty-three materials from interior of the original building. The materials sampled included; cove base mastic, carpet mastic, ceiling tile mastic, vinyl floor tile/mastic, epoxy floor coating, vinyl countertops, pipe mud fittings, plaster, textured drywall, taping compound, lay in ceiling tile, glued on ceiling tile, spray applied ceiling texture, and CMU block surface compound.

Of the materials sampled, four were identified to be asbestos containing materials (ACM) and two were assumed to be ACM. The materials identified to be ACM include two types of vinyl floor tile/mastic, the vinyl sink countertops, and spray applied ceiling texture. The materials assumed to be ACM include the vault door and pipe mud fittings/insulation in the mechanical room.

### Addition

The interior of the addition consists of plaster, textured drywall, CMU block, and ceramic tile for the walls; lay in ceiling tile, plaster, and textured drywall for the ceilings; and

carpet, vinyl floor tile, ceramic tile, and concrete for the floors. The exterior of the building is stucco with a TPO roof system.

At the addition, a total of forty-five samples were collected of fourteen materials from interior of the addition. The materials sampled included; cove base mastic, carpet mastic, white board mastic, sink undercoats, vinyl floor tile/mastic, plaster, textured drywall, taping compound, lay in ceiling tile, wood door insulation, and CMU block surface compound.

Of the materials sampled, none were identified to be ACM.

Exterior (Original and Addition)

The exterior of the original school building is brick, concrete, and CMU block. The exterior of the addition is stucco. The original school building and addition have a continuous TPO roofing system. A total of twenty-two samples were collected of six homogeneous materials from the exterior of the buildings. The materials sampled included; roof duct mastic, exterior plaster, window glazing, window caulking, CMU block surfacing compound, and stucco.

Of the materials sampled, one was identified to be ACM. The material identified to be ACM is the window caulking on the original school building.

**RESULTS**

**The following materials were sampled and identified by laboratory analysis to be asbestos containing materials or assumed to be ACM:**

*Original School Building*

Material	Location	Quantity/ Amount	Asbestos Content
9x9 Brown Streaked Vinyl Floor Tile/Black Mastic	Office Closets 19 and 27, Office Vault	~65 Sq. Ft.	Tile: 6% Chrysotile Mastic: 6% Chrysotile
9x9 Grey and Tan Pattern Vinyl Floor Tile/Black Mastic	Stage Back Entry	~20 Sq. Ft.	Tile: 4% Chrysotile Mastic: 6% Chrysotile
Sheet Vinyl Countertops (Brown)/ Yellow Mastic	Classroom Sink Countertops	~200 Sq. Ft.	Countertops: 2% Chrysotile Mastic: None Detected
Spray Applied Ceiling Texture	1, 2, 3, 4, 5, 5A, Girls Restroom Entries, Girl's Restrooms, Boy's Restroom Entries, Boys Restrooms, 9, 10, 12, 11, 13, H1, 14, Office Hall 25, Assistant Principals Office, Principals Office, H2, Lobby, Nurses Office 31, 37, 41, 40, 42, 43, 45, H3, 48, 51, 50, 53, 52, Stage	~20,900 Sq. Ft.	3% Chrysotile



Vault Door	Vault	~1 Door	Assumed
Pipe Mud Fittings/Insulation	Mechanical Room (In Accessible)	Unknown	Assumed (Havona recommends sampling)

Asbestos abatement contractors should verify quantities and amounts before bidding the project.

### ***Addition***

Of the materials sampled, none were identified to be asbestos containing materials.

### ***Exterior (Original and Addition)***

Material	Location	Quantity/ Amount	Asbestos Content
Window Caulking	Exterior (Original Building)	Unknown	*1.25-1.5% Chrysotile

It is the responsibility of the asbestos abatement contractor to verify quantities and amounts before bidding the project  
\*Point Count Analysis

### Vinyl Floor Tile/Mastic

The asbestos containing vinyl floor tile and associated mastic are non-friable, miscellaneous materials that were in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category I, Non-Friable.

### Vinyl Sink Countertops

The asbestos containing vinyl sink countertops are non-friable, miscellaneous materials that were in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category I, Non-Friable.

### Spray Applied Ceiling Texture

The asbestos containing spray applied ceiling texture is a friable, surfacing material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class I work and categorized by NESHAP as Regulated Asbestos Containing Material (RACM).

### Window Caulking

The asbestos containing window caulking is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of the ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-friable.

### Vault Door

The assumed asbestos containing vault door is a non-friable, miscellaneous material that was in fair condition at the time of the inspection. Removal of this assumed ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.



### Pipe Mud Fittings/Insulation

The assumed asbestos containing pipe mud fittings/insulation are thermal insulating materials. Removal of this assumed ACM is classified by OSHA as Class I work and categorized by NESHAP as RACM.

## LABORATORY ANALYSIS

Samples of suspect ACM were analyzed by CA Labs of Baton Rouge, Louisiana. CA Labs is an accredited laboratory recognized as a participant in the Department of Commerce, National Institute of Standards and Technology's, National Laboratory Accreditation Program (NVLAP # 200772-0).

Bulk samples were analyzed by Polarized Light Microscopy (PLM) and Point Count methods. Methodology: EPA 600/R-93/116.

## ASBESTOS NESHAP TERMINOLOGY

Per the National Standards for Hazardous Air Pollutants (NESHAP), Subpart M-National Emission Standard for Asbestos Regulations, an "asbestos containing material" is defined as any material containing more than 1 % asbestos, as determined using the PLM method.

Materials reported with trace amounts of asbestos, less than 1%, are not regulated by EPA as ACM. OSHA identifies that it is the employer's responsibility in determining the applicability of 29CFR 1926.1101 in regards to employee exposure when materials containing less than 1% asbestos are disturbed.

**Category I non-friable ACM**—is asbestos containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 % asbestos.

**Category II non-friable ACM**—is any material, excluding Category I that contains more than 1 % asbestos and is non-friable.

**Regulated Asbestos Containing Material (RACM)**—is friable asbestos material, Category I ACM that has become friable, Category I that will be disturbed and become friable, and Category II ACM that has a possibility of becoming friable in the course of demolition or renovation operations

## NESHAP REGULATIONS

Per NESHAP regulations, prior to the commencement of any demolition or renovation activity in the structure, all RACM must be removed from that structure if the construction activity would break, dislodge, or disturb these materials. NESHAP addresses not only friable ACM, but also those non-friable ACM's that could become friable as a result of demolition or renovation.

During renovation or demolition operations, materials may be uncovered that are different from those accessible for sampling during the survey. If suspect asbestos containing materials are found or uncovered during renovation or demolition, additional sampling should be performed to determine if the materials are asbestos containing materials.

## LIMITATIONS

This report has been prepared to assist the Alamogordo Public Schools in assessing the building materials at the sites specified above. This report only describes the conditions present at the time of the survey, in the areas surveyed. Other conditions may exist in areas that were not surveyed or inaccessible areas, such as, behind walls, above permanent ceilings, or below floors.

Havona Environmental will not be held responsible if additional contaminants are found at the property referenced above at a later date, or if contaminants are located at various locations on the property not included in the scope of work. Our professional services have been performed in a manner consistent with the level of care and skill ordinarily exercised by members of the professional community currently practicing under similar conditions in the locality of the project. No warranty, expressed or implied, is made or intended.

Havona Environmental is not responsible for any independent conclusions or recommendations made by others based on the services provided on this project. Havona assumes no liability for any loss, injury, claim or damages arising directly or indirectly from any use or reliance on this report to the opinions expressed herein.

**IF YOU CHOOSE TO REMOVE ASBESTOS CONTAINING MATERIALS, IT MUST BE DONE BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR (GS-29). YOU MUST ALSO SUBMIT THE PROPER NOTIFICATIONS TO NMED-AIR QUALITY DEPARTMENT.**

**THIS REPORT SHOULD NOT BE REPRODUCED EXCEPT IN FULL!!**

If you have any questions or need additional information please contact Havona Environmental, Inc. at 505-232-9533. Thank you for allowing us to provide you with these services.

Respectfully Yours,

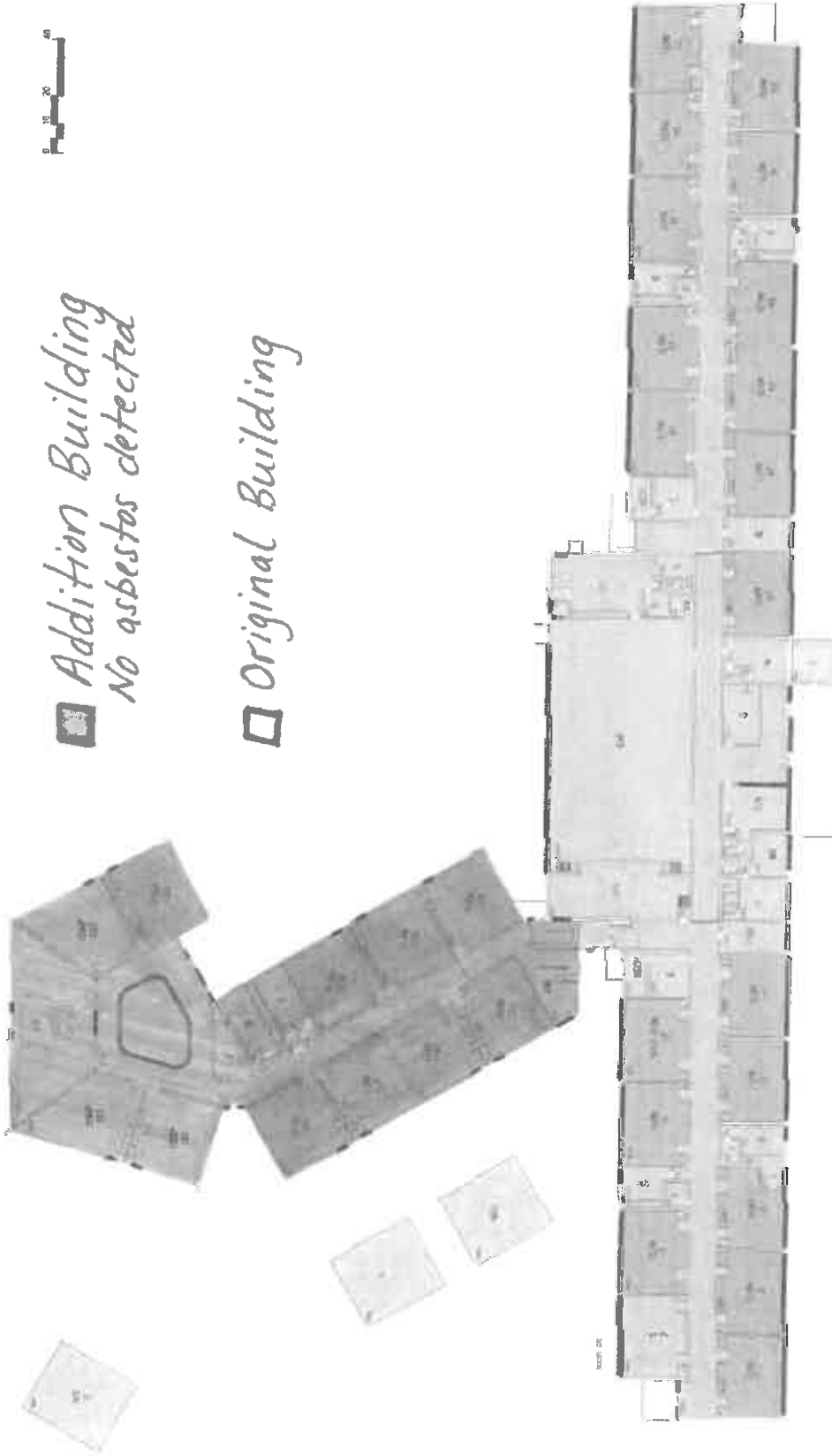



Cissy Puma—CEI  
Environmental Consultant

Scott Puma  
Environmental Consultant

- Attachments:
- Appendix A: Functional Space and ACM Location Diagram
  - Appendix B: Material Sample Logs
  - Appendix C: Laboratory Results and Chain of Custody
  - Appendix D: Inspector's Certification

## **APPENDIX A**



 *Addition Building*  
*No asbestos detected*

 *Original Building*



**SACRAMENTO ELEMENTARY SCHOOL**  
OVERALL S.F. = 50,081

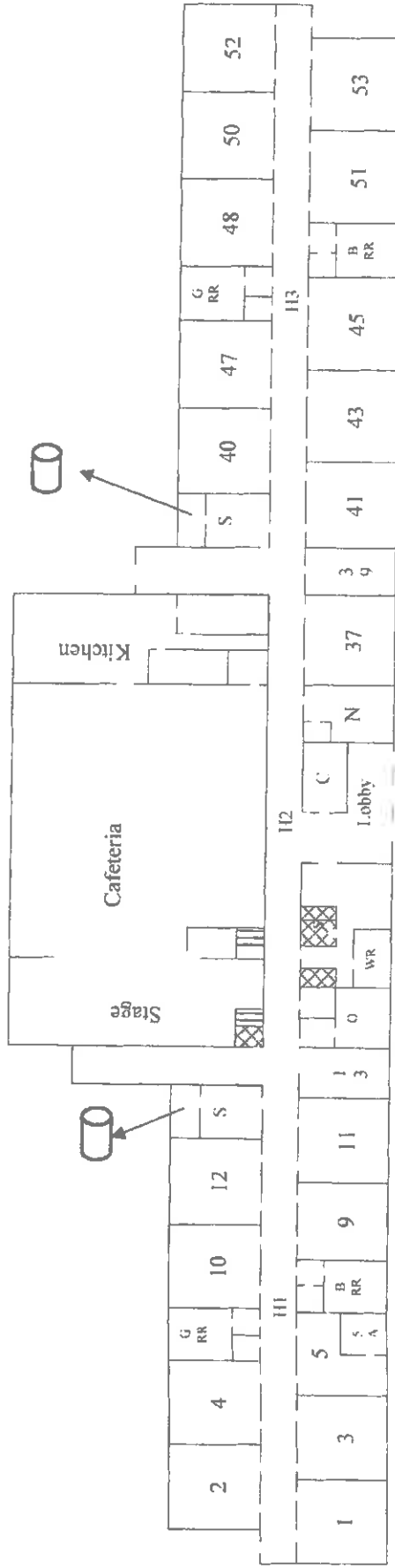
**LEGEND**  
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 SUPPORT  
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hevonbenvironmental

environmental consulting and testing

# FUNCAIONAL SPACE AND ACM LOCATION DIAGRAM

## Floors and Other



### LEGEND: ACM



Vinyl Floor Tile/Black Mastic

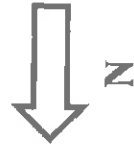


Pipe Mud Fittings/Insulation (Assumed)

\*Brown Vinyl Countertops (Classroom Sinks)

\*Vault Door (Assumed)

\*Window Glazing



Project: Sacramento Elementary School (Original Building)

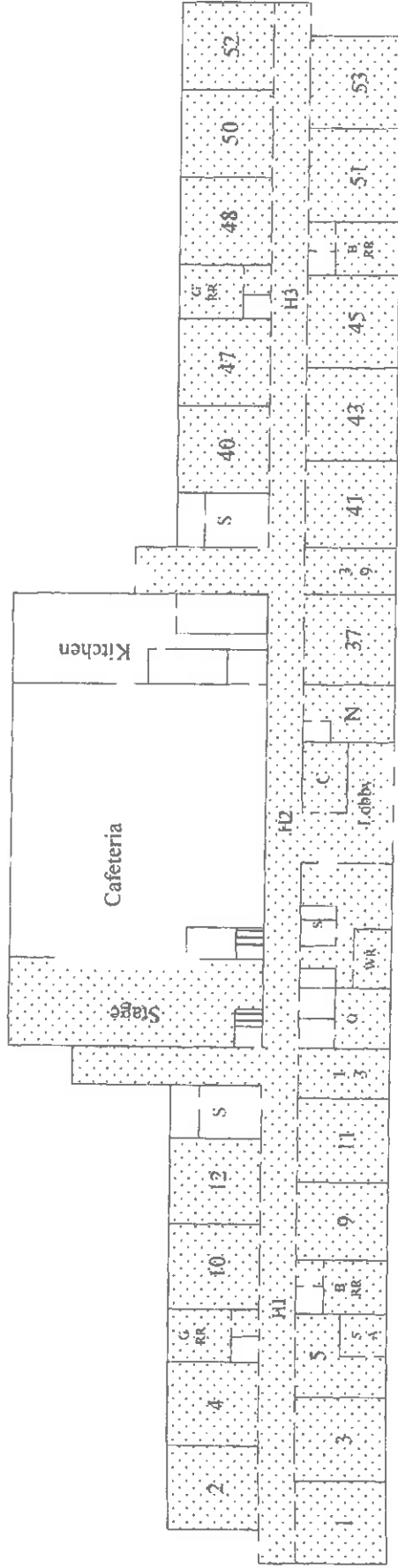
Prepared For: Alamoqordo Public Schools

Prepared by: Scott Puma

Date: 3-20-2020

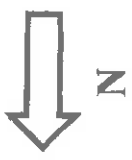
# FUNCAIONAL SPACE AND ACM LOCATION DIAGRAM

## Ceilings



**LEGEND: ACM**

 Spray Applied Ceiling Texture



Project: Sacramento Elementary School (Original Building)	
Prepared For: Alamoqordo Public Schools	
Prepared by: Scott Puma	Date: 3-20-2020

**havonaenvironmental**  
environmental consulting and testing



## **APPENDIX B**



## ASBESTOS INSPECTION MATERIAL SAMPLE LOG

Project: Sacaton Middle School Prepared For: Whittier Public School	Location: Alhambra, CA Inspection Date: March 2, 2001
<b>ORIGINAL SCHOOL BUILDING</b>	

Sample #	Material	Functional Space Location	Quantity	Material Type	Condition	Friable/Non-Friable	Asbestos Content
SES-M-1A1-1, 1A2-2, 1A3-3	Cove Base Mastic (Yellow)	Throughout	N/A	Misc.	Fair	NF	None Detected
SES-M-1B1-4, 1B2-5, 1B3-6	Carpet Mastic (Yellow)	1, 1C, 2, 3, 4, 5, 6, 10, 9, 12, 11, 13, H1, Office 25, Office Hall, Assistant Principal, Principal, H2, Lobby, Reception, 31, 37, 39, 41, 40, 42, 43, 45, H3, Data Closet, 51, 50, 52, 53	N/A	Misc.	Fair	NF	None Detected
SES-M-1C1-7, 1C2-8, 1C3-9	1x1 Ceiling Tile Mastic (Brown)	Kitchen	N/A	Misc.	Fair	NF	None Detected
SES-M-2A1-10, 2A2-11, 2A3-12	12x12 Cream w/Brown Spackles Vinyl Floor Tile/Yellow Mastic	5A, Gym	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
SES-M-2B1-13, 2B2-14, 2B3-15	12x12 Cream w/Multi-Colored Spackles Vinyl Floor Tile/Yellow Mastic	Principal Restroom, Nurse Restroom, Kitchen Vault, Staff Restroom	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
SES-M-2C1-16, 2C2-17	12x12 Brown Streaked Vinyl Floor Tile/Yellow Mastic	H3, Boy's Restroom, Janitor Closet	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected

SES-M-2D1-18, 2D2-19	9x9 Brown Streaked Vinyl Floor Tile/Black Mastic	Office Closets 19 and 27, Office Vault	~65 Sq. Ft.	Misc.	Fair	NF	Tile: 6% Chrysotile Mastic: 6% Chrysotile
SES-M-2E1-20, 2E2-21	9x9 Grey and Tan Pattern Vinyl Floor Tile/Black Mastic	Stage Back Entry	~20 Sq. Ft.	Misc.	Fair	NF	Tile: 4% Chrysotile Mastic: 6% Chrysotile
SES-M-2F1-22, 2F2-23, 2F3-24	Epoxy Coating (Green w/Multi-Colored Spackles)	Kitchen, 24, 26, Freezer Walkway	N/A	Misc.	Fair	NF	None Detected
SES-M-2G1-25, 2G2-26, 2G3-27	Sheet Vinyl Countertops (Brown)/ Yellow Mastic	Classroom Sink Countertops	~200 Sq. Ft.	Misc.	Fair	NF	Countertops: 2% Chrysotile Mastic: None Detected
SES-T-3A1-28, 3A2-29, 3A3-30	Pipe Mud Fittings	Kitchen	N/A	TSI	Fair	NF	None Detected
SES-S-4A1-31, 4A2-32, 4A3-33, 4A4-34, 4A5-35, 4A6-36, 4A7-37	Plaster A	Throughout	N/A	Surfacing	Fair	NF	None Detected
SES-S-4B1-38, 4B2-39, 4B3-40	Textured Drywall A	2, 4, Freezer Walkway	N/A	Surfacing	Fair	NF	None Detected
SES-M-4C1-41, 4C2-42, 4C3-43	Taping Compound A	2, 4, Freezer Walkway	N/A	Misc.	Fair	NF	None Detected
SES-S-4D1-44, 4D2-45, 4D3-46	Textured Drywall B	5, 5A, 10	N/A	Surfacing	Fair	NF	None Detected
SES-M-4E1-47, 4E2-48, 4E3-49	Taping Compound B	5, 5A, 10	N/A	Misc.	Fair	NF	None Detected
SES-S-4F1-50, 4F2-51, 4F3-52	Textured Drywall C	Reception	N/A	Surfacing	Fair	NF	None Detected
SES-M-4G1-53, 4G2-54, 4G3-55	Taping Compound C	Reception	N/A	Misc.	Fair	NF	None Detected
SES-M-5A1-56, 5A2-57, 5A3-58	2x4 Lay in Ceiling Tile A (Squiggly Pattern)	Reception	N/A	Misc.	Fair	F	None Detected
SES-M-5B1-59, 5B2-60, 5B3-61	2x4 Lay in Ceiling Tile (Smooth/Hard)	Kitchen	N/A	Misc.	Fair	NF	None Detected
SES-M-5C1-62, 5C2-63, 5C3-64	1x1 Glued on Ceiling Tile	Kitchen (Above lay in ceiling tile)	N/A	Misc.	Fair	F	None Detected
SES-S-6A1-65, 6A2-66, 6A3-67, 6A4-68, 6A5-69, 6A6-70, 6A7-71	Spray Applied Ceiling Texture	1, 2, 3, 4, 5, 5A, Girls Restroom Entries, Girl's Restrooms, Boy's Restroom Entries,	~20,900 Sq. Ft.	Surfacing	Fair	F	3% Chrysotile

Sample #	Material	Functional Space Location	Quantity	Material Type	Condition	Friable/Non-Friable	Asbestos Content
SES-M-10A1-72, 10A2-73, 10A3-74	CMU Block Surface Compound	Boys Restrooms, 9, 10, 12, 11, 13, H1, 14, Office Hall 25, Assistant Principals Office, Principals Office, H2, Lobby, Nurses Office 31, 37, 41, 40, 42, 43, 45, H3, 48, 51, 50, 53, S2, Stage	N/A	Misc.	Fair	NF	None Detected
-	Vault Door	Vault	~1 Door	Misc.	Fair	NF	Assumed
-	Pipe Mud Fittings	Mechanical Room (In Accessible)	Unknown	TSI	Unknown	Unknown	Assumed
<b>BUILDING ADDITION</b>							
SES-M-1A1-1, 1A2-2, 1A3-3	Cove Base Mastic (Yellow)	Throughout	N/A	Misc.	Fair	NF	None Detected
SES-M-1B1-4, 1B2-5, 1B3-6	Carpet Mastic (Yellow)	H1A, Lounge, C54, C55, C57, C56, C58, C59, C60, HZA, C64, C63, C62, C61	N/A	Misc.	Fair	NF	None Detected
SES-M-1C1-7, 1C2-8	Ceramic Floor Tile Mastic (Tan)	Boy's Restroom, Girl's Restroom	N/A	Misc.	Fair	NF	None Detected
SES-M-1D1-9, 1D2-10, 1D3-11	Sink Undercoat (Black)	C54, C55, C57, C56, C58, C59, C60, C64, C63, C62, C61, Lounge	N/A	Misc.	Fair	NF	None Detected
SES-M-1E1-12, 1E2-13, 1E3-14	White Board Mastic (Tan)	C54, C55, C57, C56, C58, C59, C60, C64, C63, C62, C61	N/A	Misc.	Fair	NF	None Detected
SES-M-2A1-15, 2A2-16, 2A3-17	12x12 Beige Streaked Vinyl Floor Tile/Yellow Mastic	Lounge, Lounge Restroom, C54, C55, C57, C56, C58, C59, C60, HZA, C64, C63, C62, C61	N/A	Misc.	Fair	NF	None Detected

Sample #	Material	Functional Space Location	Quantity	Material Type	Condition	Friable/Non-Friable	Asbestos Content
SESA-S-4A1-18, 4A2-19, 4A3-20, 4A4-21, 4A5-22, 4A6-23, 4A7-24	Plaster (Bumpy)	Throughout	N/A	Surfacing	Fair	NF	None Detected
SESA-S-4B1-25, 4B2-26, 4B3-27	Textured Drywall A (Bumpy)	Lounge, Lounge Restroom	N/A	Surfacing	Fair	NF	None Detected
SESA-M-4C1-28, 4C2-29, 4C3-30	Taping Compound A	Lounge, Lounge Restroom	N/A	Misc.	Fair	NF	None Detected
SESA-S-4D1-31, 4D2-32, 4D3-33	Textured Drywall B (Baroque)	Ceiling-Janitor's Closet	N/A	Surfacing	Fair	NF	None Detected
SESA-M-5A1-34, 5A2-35, 5A3-36	2x2 Lay in Ceiling Tile (Rough)	H1A, Lounge, HZA	N/A	Misc.	Fair	F	None Detected
SESA-M-5B1-37, 5B2-38, 5B3-39	2x4 Lay in Ceiling Tile (Random Fissure Pattern)	C54, C55, C56, C57, C58, C59, C60, C61, C62	N/A	Misc.	Fair	F	None Detected
SESA-M-10A1-40, 10A2-41, 10A3-42	Wood Door Insulation (White)	Door stored in H1A by Restrooms	N/A	Misc.	Fair	F	None Detected
SESA-M-10B1-43, 10B2-44, 10B3-45	CMU Block Surfacing Compound	HVAC Closet	N/A	Misc.	Fair	NF	None Detected
INTERIOR (ORIGINAL AND ADDITION)							
SESE-M-9A1-1, 9A2-2, 9A3-3	Roof Duct Mastic (White)	Roof (Original and Addition)	N/A	Misc.	Fair	NF	None Detected
SESE-S-10A1-4, 10A2-5, 10A3-6	Plaster	Exterior Soffit (Original Building)	N/A	Surfacing	Fair	NF	None Detected
SESE-M-10B1-7, 10B2-8, 10B3-9	Window Glazing	Exterior Windows (Original Building)	N/A	Misc.	Fair	NF	None Detected
SESE-M-10C1-10, 10C2-11, 10C3-12	Window Caulking	Exterior Windows (Original Building)	Unknown	Misc.	Fair	NF	*1.25-1.50% Chrysotile
SESE-M-10D1-13, 10D2-14, 10D3-15	Exterior CMU Block Surfacing Compound	Original Building	N/A	Misc.	Fair	NF	None Detected
SESE-S-10E1-16, 10E2-17, 10E3-18, 10E4-19, 10E5-20, 10E6-21, 10E7-22	Stucco	Exterior (Addition)	N/A	Surfacing	Fair	NF	None Detected

\*Point Count Analysis

## **APPENDIX C**

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Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Havona Environmental**

P.O.Box 35848  
Albuquerque, NM 87176

Attn: Cissy Puma

Customer Project: Sacramento Elementary School (Original Building)

Reference #: CBR20031120

Date: 3/6/2020

#### **Analysis and Method**

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

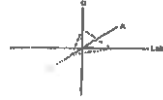
Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

#### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

Overview of Project Sample Material Containing Asbestos

**Customer Project:** Sacramento Elementary School (Original Building) **CA Labs Project #:** CBR20031120

Sample #	Layer #	Analysts Subsample	Physical Description of	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
SES-M-2D1-18	18-1		Tan Floor Tile	6% Chrysotile	<b>Tan Floor Tile</b> <b>Black Mastic</b> <b>Gray Floor Tile</b> <b>Brown Vinyl Flooring</b> <b>White Textured Surfacing</b>
	18-2		Black Mastic	6% Chrysotile	
SES-M-2D2-19	19-1		Tan Floor Tile	6% Chrysotile	
	19-2		Black Mastic	6% Chrysotile	
SES-M-2E1-20	20-1		Gray Floor Tile	4% Chrysotile	
	20-2		Black Mastic	6% Chrysotile	
SES-M-2E2-21	21-1		Gray Floor Tile	4% Chrysotile	
	21-2		Black Mastic	6% Chrysotile	

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorekrite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bl - binder		wo - wollastonite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
ml - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

Overview of Project Sample Material Containing Asbestos

**Customer Project:** Sacramento Elementary School (Original Building) **CA Labs Project #:** CBR20031120

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
SES-M-2G1-25	25-1	Brown Vinyl Flooring	2% Chrysotile	
SES-M-2G2-26	26-1	Brown Vinyl Flooring	2% Chrysotile	
SES-M-2G3-27	27-1	Brown Vinyl Flooring	2% Chrysotile	
SES-S-6A1-65	65-1	White Textured Surfacing	3% Chrysotile	
SES-S-6A2-66	66-1	White Textured Surfacing	3% Chrysotile	
SES-S-6A3-67	67-1	White Textured Surfacing	3% Chrysotile	
SES-S-6A4-68	68-1	White Textured Surfacing	3% Chrysotile	
SES-S-6A5-69	69-1	White Textured Surfacing	3% Chrysotile	

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bl - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		os - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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 Fax 225-751-5634



NVLAP #200772-0  
 TDSHS #300370  
 CDPHE #AL-18111  
 LELAP #03069

Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>	Sacramento Elementary School (Original Building)		<b>CA Labs Project #:</b>	CBR20031120
<b>Sample #</b>	<b>Layer #</b>	<b>Analysts Physical Description of Subsample</b>	<b>Asbestos type / calibrated visual estimate percent</b>	<b>List of Affected Building Material Types</b>

SES-S-6A6-70	70-1	White Textured Surfacing	3% Chrysotile
--------------	------	--------------------------	---------------

SES-S-6A7-71	71-1	White Textured Surfacing	3% Chrysotile
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**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

- |                  |              |                    |                          |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate   | pe - perlite | fg - fiberglass    | pa - palygorskite (clay) |
| gypsum - gypsum  | qu - quartz  | mw - mineral wool  |                          |
| bl - binder      |              | wo - wollastonite  |                          |
| or - organic     |              | ta - talc          |                          |
| ma - matrix      |              | sy - synthetic     |                          |
| mi - mica        |              | ce - cellulose     |                          |
| ve - vermiculite |              | br - brucite       |                          |
| ot - other       |              | ka - kaolin (clay) |                          |

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Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Original Building)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031120

**Date:** 3/6/2020  
**Samples Received:** 3/4/2020  
**Date Of Sampling:** 3/2/2020  
**Purchase Order #:**

**Phone #** 505-232-9533

**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SES-M-1A1- 1		1-1	Tan Mastic	Y	None Detected		100% qu, bi
SES-M-1A2- 2		2-1	Blue Cove Base	Y	None Detected		100% qu, ma
		2-2	Tan Mastic	Y	None Detected		100% qu, bi
SES-M-1A3- 3		3-1	Blue Cove Base	Y	None Detected		100% qu, ma
		3-2	Tan and Brown Mastic	Y	None Detected		100% qu, bi
SES-M-1B1- 4		4-1	Yellow Mastic	Y	None Detected		100% qu, bi
SES-M-1B2- 5		5-1	Yellow Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-83/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / backscat method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Daniel LaCour*

Daniel LaCour  
Analyst

*Alicia Stretz*

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers  
2. Fire Damage no significant fiber damages affecting fibrous percentages  
3. Actinolite in association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc  
7. Contamination suspected from other building materials  
8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested

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**CA Labs Project #:**  
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**Purchase Order #:**

**Phone #** 505-232-9533  
**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SES-M-1B3- 6		6-1	Yellow Mastic	Y	None Detected		100% qu, bi
SES-M-1C1- 7		7-1	Brown Mastic	Y	None Detected		100% qu, bi
SES-M-1C2- 8		8-1	Brown Mastic	Y	None Detected		100% qu, bi
SES-M-1C3- 9		9-1	Brown Mastic	Y	None Detected		100% qu, bi
SES-M-2A1- 10		10-1	White Floor Tile	Y	None Detected		100% qu, ma, ca
		10-2	Yellow Mastic	Y	None Detected		100% qu, bi
SES-M-2A2- 11		11-1	White Floor Tile	Y	None Detected		100% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-83/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygonkite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Daniel LaCour*  
Daniel LaCour  
Analyst

Senior Analyst  
Alicia Stretz

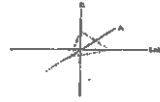
*Chris Williams*  
Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers  
2. Fire Damage no significant fiber damage affecting fibrous percentages  
3. Actinolite in association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc  
7. Contamination suspected from other building materials  
8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested

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## Polarized Light Asbestiform Materials Characterization

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Albuquerque, NM 87176

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**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031120

**Date:** 3/6/2020  
**Samples Received:** 3/4/2020  
**Date Of Sampling:** 3/2/2020  
**Purchase Order #:**

**Phone #** 505-232-9533  
**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		11-2	Yellow Mastic	Y	None Detected		100% qu, bi
SES-M-2A3-12		12-1	White Floor Tile	Y	None Detected		100% qu, ma, ca
		12-2	Yellow Mastic	Y	None Detected		100% qu, bi
SES-M-2B1-13		13-1	White Floor Tile	Y	None Detected		100% qu, ma, ca
		13-2	Yellow Mastic	Y	None Detected		100% qu, bi
SES-M-2B2-14		14-1	White Floor Tile	Y	None Detected		100% qu, ma, ca
		14-2	Yellow Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-83/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becks line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Daniel LaCour*

Daniel LaCour  
Analyst

*Chris Williams*

Senior Analyst  
Alicia Stretz

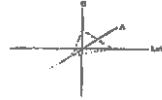
Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## Polarized Light Asbestiform Materials Characterization

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Albuquerque, NM 87176

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(Original Building)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031120

**Date:** 3/6/2020

**Samples Received:** 3/4/2020

**Date Of Sampling:** 3/2/2020

**Phone #** 505-232-9533

**Fax #** 505-256-8237

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SES-M-2B3- 15		15-1		White Floor Tile	Y	None Detected		100% qu, ma, ca
		15-2		Yellow Mastic	Y	None Detected		100% qu, bi
SES-M-2C1- 16		16-1		Tan Floor Tile	Y	None Detected		100% qu, ma, ca
		16-2		Yellow Mastic	Y	None Detected		100% qu, bi
SES-M-2C2- 17		17-1		Tan Floor Tile	Y	None Detected		100% qu, ma, ca
		17-2		Yellow Mastic	Y	None Detected		100% qu, bi
SES-M-2D1- 18		18-1		Tan Floor Tile	Y	6% Chrysotile		94% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Daniel LaCour  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthrophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## Polarized Light Asbestiform Materials Characterization

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Albuquerque, NM 87176

**Customer Project:**  
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School  
(Original Building)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031120

Phone # 505-232-9533  
Fax # 505-256-8237

**Date:** 3/6/2020  
**Samples Received:** 3/4/2020  
**Date Of Sampling:** 3/2/2020  
**Purchase Order #:**

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		18-2	Black Mastic	Y	6% Chrysotile		94% qu, bi
SES-M-2D2-19		19-1	Tan Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
		19-2	Black Mastic	Y	6% Chrysotile		94% qu, bi
SES-M-2E1-20		20-1	Gray Floor Tile	Y	4% Chrysotile		96% qu, ma, ca
		20-2	Black Mastic	Y	6% Chrysotile		94% qu, bi
SES-M-2E2-21		21-1	Gray Floor Tile	Y	4% Chrysotile		96% qu, ma, ca
		21-2	Black Mastic	Y	6% Chrysotile		94% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Daniel LaCour*  
Daniel LaCour  
Analyst

Senior Analyst  
Alicia Stretz

*Chris Williams*  
Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unattested fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water aspiration on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Original Building)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031120

**Date:** 3/6/2020

**Samples Received:** 3/4/2020

**Date Of Sampling:** 3/2/2020

**Purchase Order #:**

**Phone #** 505-232-9533

**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SES-M-2F1- 22		22-1	Green and White Flooring	N	None Detected		100% qu, ma, ca
SES-M-2F2- 23		23-1	Green and White Flooring	N	None Detected		100% qu, ma, ca
SES-M-2F3- 24		24-1	Green and White Flooring	N	None Detected		100% qu, ma, ca
SES-M-2G1- 25		25-1	Brown Vinyl Flooring	Y	2% Chrysotile		98% qu, ma
		25-2	Yellow Mastic	Y	None Detected		100% qu, bi
SES-M-2G2- 26		26-1	Brown Vinyl Flooring	Y	2% Chrysotile		98% qu, ma
		26-2	Yellow Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Daniel LaCour  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unfiltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



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**Date Of Sampling:** 3/2/2020

**Purchase Order #:**

Phone # 505-232-9533

Fax # 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SES-M-2G3-27		27-1	Brown Vinyl Flooring	Y	2% Chrysotile		98% qu, ma
		27-2	Yellow Mastic	Y	None Detected		100% qu, bi
SES-T-3A1-28		28-1	Gray Insulation	Y	None Detected	10% fg	90% qu, ma, ca
SES-T-3A2-29		29-1	Gray Insulation	Y	None Detected	10% fg	90% qu, ma, ca
SES-T-3A3-30		30-1	Gray Insulation	Y	None Detected	10% fg	90% qu, ma, ca
SES-S-4A1-31		31-1	Yellow Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
SES-S-4A2-32		32-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, all Immersion for

Identification of asbestos types by dispersion attaining / becke line method.

ce - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wl - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Daniel LaCour*  
Daniel LaCour  
Analyst

Senior Analyst  
Alicia Stretz

*Chris Williams*  
Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthrophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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**Purchase Order #:**

**Phone #** 505-232-9533  
**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SES-S-4A3-33		33-1	Blue Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
SES-S-4A4-34		34-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
SES-S-4A5-35		35-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
SES-S-4A6-36		36-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
SES-S-4A7-37	10	37-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
SES-S-4B1-38		38-1	White Surfaced White Compound	N	None Detected		100% qu, ml, bi, ca
		38-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-83/118)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
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bl - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Daniel LaCour  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fine Damage significant fiber damage - reported percentages reflect unaltered fibers  
2. Fine Damage no significant fiber damages affecting fibrous percentages  
3. Actinolite in association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc  
7. Contamination suspected from other building materials  
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LELAP #03069

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Original Building)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031120

**Date:** 3/6/2020  
**Samples Received:** 3/4/2020  
**Date Of Sampling:** 3/2/2020  
**Purchase Order #:**

**Phone #** 505-232-9533  
**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SES-S-4B2-39		39-1	Blue Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		39-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-S-4B3-40		40-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
SES-M-4C1-41		41-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		41-2	White Compound Beneath Tape	Y	None Detected		100% qu, mi, ca
		41-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-M-4C2-42		42-1	Blue Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Daniel LaCour*  
Daniel LaCour  
Analyst

Senior Analyst  
Alicia Stretz

*Chris Williams*  
Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers  
2. Fire Damage no significant fiber damage affecting fibrous percentages  
3. Actinolite in association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc  
7. Contamination suspected from other building materials  
8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested

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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			White Compound Beneath 42-2 Tape	Y	None Detected		100% qu, mi, ca
			42-3 White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-M-4C3-43			Blue Surfaced White 43-1 Compound	N	None Detected		100% qu, mi, bi, ca
			White Compound Beneath 43-2 Tape	Y	None Detected		100% qu, mi, ca
			43-3 White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-S-4D1-44			Blue Surfaced White 44-1 Compound	N	None Detected		100% qu, mi, bi, ca
			44-2 White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Laboratory Director  
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SES-S-4D2- 45		45-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		45-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-S-4D3- 46		46-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		46-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-M-4E1- 47		47-1	Blue Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		47-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-M-4E2- 48		48-1	White Surfaced White Compound	N	None Detected		100% qu, ml, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Analyst

*Chris Williams*

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

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**TDSHS #300370**  
**CDPHE #AL-18111**  
**LELAP #03069**

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**Fax #** 505-256-8237

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		48-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-M-4E3-49		49-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		49-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-S-4F1-50		50-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		50-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-S-4F2-51		51-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		51-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

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Daniel LaCour  
Analyst

Senior Analyst  
Alicia Stretz

*Chris Williams*  
Laboratory Director  
Chris Williams

1. Fine Damage significant fiber damage - reported percentages reflect unaltered fibers  
2. Fine Damage no significant fiber damages affecting fibrous percentages  
3. Antholite in association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc  
7. Contamination suspected from other building materials  
8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested

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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SES-S-4F3- 52		52-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		52-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-M-4G1- 53		53-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
SES-M-4G2- 54		54-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		54-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-M-4G3- 55		55-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
		55-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
Identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	ml - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	tz - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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*Chris Williams*

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Alicia Stretz

Laboratory Director  
Chris Williams

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2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthrophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
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10. TEM analysis suggested

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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SES-M-5A1- 56		56-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		56-2	Tan Ceiling Tile	Y	None Detected	20% fg 70% ce	10% qu, pe
SES-M-5A2- 57		57-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		57-2	Tan Ceiling Tile	Y	None Detected	20% fg 70% ce	10% qu, pe
SES-M-5A3- 58		58-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		58-2	Tan Ceiling Tile	Y	None Detected	20% fg 70% ce	10% qu, pe
SES-M-5B1- 59		59-1	White Covering	Y	None Detected		100% qu, ma

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
Identification of asbestos types by dispersion staining / becke line method.

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Analyst

*Chris Williams*

Senior Analyst  
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1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		59-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-M-5B2- 60		60-1	White Covering	Y	None Detected		100% qu, ma
		60-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-M-5B3- 61		61-1	White Covering	Y	None Detected		100% qu, ma
		61-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SES-M-5C1- 62		62-1	White Surfacing	Y	None Detected		100% qu, bi
		62-2	Yellow Ceiling Tile	Y	None Detected	100% fg	

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SES-M-5C2- 63		63-1	White Surfacing	Y	None Detected		100% qu, bi
		63-2	Yellow Ceiling Tile	Y	None Detected	100% fg	
SES-M-5C3- 64		64-1	White Surfacing	Y	None Detected		100% qu, bi
		64-2	Yellow Ceiling Tile	Y	None Detected	100% fg	
SES-S-6A1- 65		65-1	White Textured Surfacing	Y	3% Chrysotile		97% qu, ma, ve, bi, ca
SES-S-6A2- 66		66-1	White Textured Surfacing	Y	3% Chrysotile		97% qu, ma, ve, bi, ca
SES-S-6A3- 67		67-1	White Textured Surfacing	Y	3% Chrysotile		97% qu, ma, ve, bi, ca

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SES-S-6A4-68		68-1	White Textured Surfacing	Y	3% Chrysotile		97% qu, ma, ve, bi, ca
SES-S-6A5-69		69-1	White Textured Surfacing	Y	3% Chrysotile		97% qu, ma, ve, bi, ca
SES-S-6A6-70		70-1	White Textured Surfacing	Y	3% Chrysotile		97% qu, ma, ve, bi, ca
SES-S-6A7-71		71-1	White Textured Surfacing	Y	3% Chrysotile		97% qu, ma, ve, bi, ca
SES-M-10A1-72		72-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, ot, bi, ca
SES-M-10A2-73		73-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, ot, bi, ca
SES-M-10A3-74		74-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, ot, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypaum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	ay - synthetic	

Approved Signatories:

*Daniel LaCour*

Daniel LaCour  
Analyst

Senior Analyst  
Alicia Stretz

*Chris Williams*  
Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthrophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

*CPZ20031120*

**PLM BULK SAMPLE CHAIN OF CUSTODY**

Navona Environmental Navona Environmental, Inc. 4 addresses for lead, asbestos and radon		Navona Environmental, Inc. P.O. Box 35848 Albuquerque, NM 87176 Phone: 505-977-4938	
Sacramento Elementary School (Original Building) Alamogordo, NM		Alamogordo Public Schools 11000 Camino del Rio South San Diego, CA 92108	
Sampled By: Scott Pama Sampler's Signature: <i>Scott Pama</i>	Date Sampled: 3-3-2020	Name: Cissy Pama Email: navonaenvironmental@yahoo.com	Page: 1 of 2
SES-M-1A1-1 1A2-2 1A3-3 M-1B1-4 1B2-5 1B3-6 M-1C1-7 1C2-8 1C3-9 M-2A1-10 2A2-11 2A3-12 M-2B1-13 2B2-14	Original Building →	WALL ↓ FLOOR ↓ CEILING ↓ FLOOR ↓ FLOOR ↓	READ ALL LAYERS ↓
Same Day 2-4 Hour 24 Hour	Same Day 3-3-2020	2 Day 5-10 Day	5-10 Day
<i>Scott Pama</i>		<i>Scott Pama</i>	

*CPZ20031120*

CPZ20031120

PLM BULK SAMPLE CHAIN OF CUSTODY

Sacramento Elementary School (Original Building) Alamogordo, NM		Alamogordo Public Schools Hayona Environmental, Inc.	
Sampled By: Scott Puma	Date Sampled: 3-2-2020	Name: Clissy Puma	Phone: 505-977-4938
Sampler's Signature: <i>[Signature]</i>		Email: hayonaenvironmental@yahoo.com	
Original Building		2 of 6	
SES-M-283-15		Floor	READ ALL LAYERS
M-221-16			
222-17			
M-201-18			
202-19			
M-251-20			
252-21			
M-251-22			
252-23			
253-24			
M-251-25			
262-26			
263-27			
T-3A1-28		PIPE	
2-4 Hour	24 Hour	24 Hour	5-10 Day
3-3-2020	3-3-2020	3 DAY - C	3 DAY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	

CP#20031120

Hayona Environmental, Inc.  
P.O. Box 35848  
Albuquerque, NM 87176

Phone 505-232-9533  
Fax 505-212-0069

Hayona Environmental  
Environmental Sampling and Testing

PLM BULK SAMPLE CHAIN OF CUSTODY

Sacramento Elementary School (Original Building) Alamogordo, NM		Alamogordo Public Schools Alamogordo, NM	
Sampled By: Scott Puma	Date Sampled: 3-2-2020	Name: Cissy Puma	Phone: 505-977-4938
Sampler's Signature: <i>[Signature]</i>		Email: hayonaenvironmental@yahoo.com	
		Page: 2 of 6	
SES-T-3A2-29	Original Building	PAVE	
3A3-30		↓	
S-9A1-31		WALL	
4A2-32			
4A3-33			
4A4-34			
4A5-35			
4A6-36			
4A7-37			
S-4B1-38			
4B2-39			
4B3-40			
4-4C1-41			
4C2-42			
2-4 Hour	Same Day	24 Hour	2 Day - 1 Day
3-3-2020	3-3-2020		5-10 Day
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	

CBR20031120

havonaenvironmental  
environmental technology and testing

Havona Environmental, Inc.  
P.O. Box 35848  
Albuquerque, NM 87176

Phone 505-232-9333  
Fax 505-212-0069

PLM BULK SAMPLE CHAIN OF CUSTODY

Sacramento Elementary School (Original Building)  
Alamogordo, NM

Alamogordo Public Schools

Sampled By: Scott Puma

Sampler's Signature: *[Signature]*

Date Sampled: 3-2-2020

Name: Cissy Puma

Email: [havonaenvironmental@yahoo.com](mailto:havonaenvironmental@yahoo.com)

Phone: 505-977-4938

Page: 4 of 6

Original Building

SES-1A-4C3-43

5-401-44

402-45

403-46

4-4E1-47

4E2-48

4E3-49

5-4F1-50

4F2-51

4F3-52

4-4G1-53

4G2-54

4G3-55

4-5A1-56

2-4 Hour

Same Day

24 Hour

2-Day

5-10 Day

3-2-2020

*[Signature]*

*[Signature]*

WET WIPERS 3/12/20 1:20 PM

WALL

CEILING

CBP20031120

Haynes Environmental, Inc.  
P.O. Box 35848  
Albuquerque, NM 87176  
Phone: 505-232-9533  
Fax: 505-212-4069

Haynes Environmental  
Environmental Monitoring and Testing

PLM BULK SAMPLE CHAIN OF CUSTODY

Sacramento Elementary School (Original Building)  
Alamogordo, NM

Alamogordo Public Schools

Name: Cissy Puma

Email: haynesenvironmental@yahoo.com

Date Sampled: 3-2-2020

Sampled By: Scott Puma  
Sampler's Signature:

Page: 5 of 6

Original Building

SES-NA-5A2-57

5A3-58

NA-5B1-59

5B2-60

5B3-61

NA-5C1-62

5C2-63

5C3-64

S-6A1-65

6A2-66

6A3-67

6A4-68

6A5-69

6A6-70

CEILING

CEILING

2-4 Hour

Same Day

24 Hour

2 Day

5-10 Day

3-2-2020

NUMBER OF SAMPLES 54001-5001



CP 2003120

Phone 305-232-9333  
Fax 305-212-0069

Hayoua Environmental, Inc.  
P.O. Box 35848  
Albuquerque, NM 87176

PLM BULK SAMPLE CHAIN OF CUSTODY

Sacramento Elementary School (Original Building)  
Alamogordo, NM

Alamogordo Public Schools

Sampled By: Scott Puma  
Sampler's Signature:

Date Sampled: 3-2-2020

Name: Clissy Puma

Email: hayouaenvironmental@yahoo.com

Page: 6 of 6

SES-5-6A7-71  
M-10A1-72  
10A2-73  
10A3-74

Original Building



CEILING

WALL



2-4 Hour

Same Day

24 Hour

2 Day

3 Day

5-10 Day

3-3-2020

Signature: [Handwritten Signature]

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12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

Attn: Cissy Puma  
Customer Project: Sacramento Elementary School (Addition)  
Reference #: CBR20031119 Date: 3/6/2020

#### **Analysis and Method**

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

#### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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 12232 Industriplex, Suite 32  
 Baton Rouge, LA 70809  
 Phone 225-751-5632  
 Fax 225-751-5634



NVLAP #200772-0  
 TDSHS #300370  
 CDPHE #AL-18111  
 LELAP #03069

Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b> Sacramento Elementary School (Addition)		<b>CA Labs Project #:</b> CBR20031119	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent
			List of Affected Building Material Types

**No Asbestos Detected.**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

- |                  |              |                    |                          |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate   | pe - perilla | fg - fiberglass    | pa - palygorskite (clay) |
| gypsum - gypsum  | qu - quartz  | mw - mineral wool  |                          |
| bi - binder      |              | wo - wollastonite  |                          |
| or - organic     |              | ta - talc          |                          |
| ma - matrix      |              | sy - synthetic     |                          |
| mi - mica        |              | ca - cellulose     |                          |
| ve - vermiculite |              | br - brucite       |                          |
| ot - other       |              | ka - kaolin (clay) |                          |

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Addition)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031119

**Date:** 3/6/2020  
**Samples Received:** 3/4/2020  
**Date Of Sampling:** 3/2/2020  
**Purchase Order #:**

Phone # 505-232-9533

Fax # 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Hom- ogeneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SESA-M- 1A1-1		1-1	Gray Cove Base	Y	None Detected		100% qu, ma
		1-2	Yellow Mastic	Y	None Detected		100% qu, bi
SESA-M- 1A2-2		2-1	Gray Cove Base	Y	None Detected		100% qu, ma
		2-2	Yellow Mastic	Y	None Detected		100% qu, bi
SESA-M- 1A3-3		3-1	Gray Cove Base	Y	None Detected		100% qu, ma
		3-2	Yellow Mastic	Y	None Detected		100% qu, bi
SESA-M- 1B1-4		4-1	Yellow Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-88/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

Identification of asbestos types by dispersion staining / becks line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Sidney Pinkerton*

Sidney Pinkerton  
Analyst

*Chris Williams*

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Addition)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031119

**Date:** 3/6/2020

**Samples Received:** 3/4/2020

**Date Of Sampling:** 3/2/2020

**Purchase Order #:**

**Phone #** 505-232-9533

**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SESA-M-1B2-5		5-1	Yellow Mastic		Y	None Detected		100% qu, bi
		5-2	Gray Leveling Plaster		Y	None Detected		100% qu, ma, ca
SESA-M-1B3-6		6-1	Green Carpet		Y	None Detected	80% sy	20% qu, ma
		6-2	Yellow Mastic		Y	None Detected		100% qu, bi
SESA-M-1C1-7		7-1	Pink Ceramic Tile		Y	None Detected		100% qu, ot
		7-2	Yellow Mastic		Y	None Detected		100% qu, bi
SESA-M-1C2-8		8-1	Pink Ceramic Tile		Y	None Detected		100% qu, ot

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	ml - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	ps - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibrous percentages
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Baton Rouge, LA 70809  
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**NVLAP #200772-0**  
**TDSHS #300370**  
**CDPHE #AL-18111**  
**LELAP #03069**

## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Addition)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031119

**Date:** 3/6/2020  
**Samples Received:** 3/4/2020  
**Date Of Sampling:** 3/2/2020  
**Purchase Order #:**

**Phone #** 505-232-9533  
**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		8-2	Yellow Mastic	Y	None Detected		100% qu, bi
		8-3	Gray Leveling Plaster	Y	None Detected		100% qu, ma, ca
SESA-M-1D1-9		9-1	Black Sealant	Y	None Detected		100% qu, ma, bi
SESA-M-1D2-10		10-1	Black Sealant	Y	None Detected		100% qu, ma, bi
SESA-M-1D3-11		11-1	Black Sealant	Y	None Detected		100% qu, ma, bi
SESA-M-1E1-12		12-1	Yellow Mastic	Y	None Detected		100% qu, bi
SESA-M-1E2-13		13-1	Yellow Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/r116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

Identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - calcilose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Sidney Pinkerton*  
Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

*Chris Williams*  
Laboratory Director  
Chris Williams

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2. Fire Damage no significant fiber damages affecting fibrous percentages
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Fax 225-751-5634



**NVLAP #200772-0**  
**TDSHS #300370**  
**CDPHE #AL-18111**  
**LELAP #03069**

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Addition)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031119

**Date:** 3/6/2020

**Samples Received:** 3/4/2020

**Date Of Sampling:** 3/2/2020

**Purchase Order #:**

**Phone #** 505-232-9533  
**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SESA-M- 1E3-14		14-1	Yellow Mastic	Y	None Detected		100% qu, bi
SESA-M- 2A1-15		15-1	Tan Floor Tile	Y	None Detected		100% qu, ca
		15-2	Yellow Mastic	Y	None Detected		100% qu, bi
SESA-M- 2A2-16		16-1	Tan Floor Tile	Y	None Detected		100% qu, ca
		16-2	Yellow Mastic	Y	None Detected		100% qu, bi
SESA-M- 2A3-17		17-1	Tan Floor Tile	Y	None Detected		100% qu, ca
		17-2	Yellow Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-83/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pa - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

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**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Cissy Puma  
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**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031119

**Date:** 3/6/2020  
**Samples Received:** 3/4/2020  
**Date Of Sampling:** 3/2/2020  
**Purchase Order #:**

**Phone #** 505-232-9533  
**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SESA-S- 4A1-18		18-1	Blue Surfacing	Y	None Detected		100% qu, bi
		18-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
SESA-S- 4A2-19		19-1	White Surfacing	Y	None Detected		100% qu, bi
		19-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
SESA-S- 4A3-20		20-1	White Surfacing	Y	None Detected		100% qu, bi
		20-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
SESA-S- 4A4-21		21-1	White Surfacing	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Sidney Pinkerton*  
Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

*Chris Williams*  
Laboratory Director  
Chris Williams

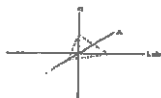
1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



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Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Addition)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031119

**Date:** 3/6/2020  
**Samples Received:** 3/4/2020  
**Date Of Sampling:** 3/2/2020  
**Purchase Order #:**

Phone # 505-232-9533

Fax # 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		21-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
SESA-S- 4A5-22		22-1	White Surfacing	Y	None Detected		100% qu, bi
		22-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
SESA-S- 4A6-23		23-1	White Surfacing	Y	None Detected		100% qu, bi
		23-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
SESA-S- 4A7-24		24-1	White Surfacing	Y	None Detected		100% qu, bi
		24-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Sidney Pinkerton*

Sidney Pinkerton  
Analyst

*Chris Williams*

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Asbestos in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Addition)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031119

**Date:** 3/6/2020

**Samples Received:** 3/4/2020

**Date Of Sampling:** 3/2/2020

**Phone #** 505-232-9533

**Fax #** 505-256-8237

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SESA-S- 4B1-25		25-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		25-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SESA-S- 4B2-26		26-1	Green Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		26-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SESA-S- 4B3-27		27-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		27-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SESA-M- 4C1-28		28-1	Green Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-83/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becks line method.

ca - carbonate	mi - mica	fg - fiberglass	oe - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Sidney Pinkerton*

Sidney Pinkerton  
Analyst

*Alicia Stretz*

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water seepage on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## Polarized Light Asbestiform Materials Characterization

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**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Addition)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031119

**Date:** 3/6/2020

**Samples Received:** 3/4/2020

**Date Of Sampling:** 3/2/2020

**Phone #** 505-232-9533

**Fax #** 505-256-8237

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homog- eneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	28-2		White Compound	Y	None Detected		100% qu, mi, ma, ca
	28-3		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SESA-M- 4C2-29		29-1	Green Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
SESA-M- 4C3-30		30-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
SESA-S- 4D1-31		31-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
	31-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SESA-S- 4D2-32		32-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Anthophyllite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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**NVLAP #200772-0**  
**TDSHS #300370**  
**CDPHE #AL-18111**  
**LELAP #03069**

## Polarized Light Asbestiform Materials Characterization

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**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

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Sacramento Elementary  
School  
(Addition)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031119

**Date:** 3/6/2020

**Samples Received:** 3/4/2020

**Date Of Sampling:** 3/2/2020

**Phone #** 505-232-9533

**Fax #** 505-256-8237

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		32-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SESA-S- 4D3-33		33-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		33-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
SESA-M- 5A1-34		34-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		34-2	Gray Ceiling Tile	Y	None Detected	90% fg	10% qu, pe, ma
SESA-M- 5A2-35		35-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		35-2	Gray Ceiling Tile	Y	None Detected	90% fg	10% qu, pe, ma

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

Identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
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ma - matrix	qu - quartz	sy - synthetic	

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Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unfiltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## Polarized Light Asbestiform Materials Characterization

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**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

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**Date Of Sampling:** 3/2/2020

**Purchase Order #:**

Phone # 505-232-9533

Fax # 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homog- eneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SESA-M- 5A3-36		36-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		36-2	Gray Ceiling Tile	Y	None Detected	90% fg	10% qu, pe, ma
SESA-M- 5B1-37		37-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		37-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
SESA-M- 5B2-38		38-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		38-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
SESA-M- 5B3-39		39-1	White Surfacing	Y	None Detected		100% qu, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Sidney Pinkerton*

Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

*Chris Williams*

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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**NVLAP #200772-0**  
**TDSHS #300370**  
**CDPHE #AL-18111**  
**LELAP #03069**

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Addition)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031119

**Date:** 3/6/2020  
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**Date Of Sampling:** 3/2/2020  
**Purchase Order #:**

**Phone #** 505-232-9533  
**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		39-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
SESA-M-10A1-40		40-1	White Insulation	Y	None Detected	10% ce	90% qu, ve, ma
SESA-M-10A2-41		41-1	White Insulation	Y	None Detected	10% ce	90% qu, ve, ma
SESA-M-10A3-42		42-1	White Insulation	Y	None Detected	10% ce	90% qu, ve, ma
SESA-M-10B1-43		43-1	White Surfacing	Y	None Detected		100% qu, bl, ca
		43-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
SESA-M-10B2-44		44-1	White Surfacing	Y	None Detected		100% qu, bl, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	ps - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

*Sidney Pinkerton*  
Sidney Pinkerton  
Analyst

Senior Analyst  
Alicia Stretz

*Chris Williams*  
Laboratory Director  
Chris Williams

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10. TEM analysis suggested

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NVLAP #200772-0  
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**Polarized Light Asbestiform Materials Characterization**

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P.O.Box 35848  
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Sacramento Elementary  
School  
(Addition)  
**Turnaround Time:** 3 day

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**Date:** 3/6/2020

**Samples Received:** 3/4/2020

**Date Of Sampling:** 3/2/2020

**Purchase Order #:**

**Phone #** 505-232-9533

**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homog- eneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		44-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
SESA-M- 10B3-45		45-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		45-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
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Laboratory Director  
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9. < 1% Result point counted positive
10. TEM analysis suggested

CBR200311A

Phone 505-232-9533  
Fax 505-212-0169

Havond Environmental, Inc.  
P.O. Box 35848  
Albuquerque, NM 87176

PLM BULK SAMPLE CHAIN OF CUSTODY

Havond Environmental  
Environmental Monitoring and Safety

Sacramento Elementary School (Addition)  
Alamogordo, NM

Alamogordo Public Schools

Names: Clisy Puma  
Phone: 505-977-4938

Date Sampled: 3-2-2020  
Email: havondenvironmental@yahoo.com

Sampler's Signature: Scott Puma For Clisy Puma  
Page: 1 of 4

Sample ID	Location	Date	Duration		
			2-4 Hour	24 Hour	3-Day
SESA-M-1A1-1	WALL				5-10 Day
1A2-2	↓				
1A3-3					
M-1B1-4	FLOOR				
1B2-5	↓				
1B3-6					
M-1C1-7	FLOOR				
1C2-8	↓				
AR					
M-1D1-9	SWIRL				
1D2-10	↓				
1D3-11					
M-1E1-12	WALL				
1E2-13	↓				
1E3-14					

2-4 Hour    Same Day    24 Hour    3-Day    5-10 Day

3-2-2020

1A1-2  
1A2-3  
1A3-4  
1A4-5  
1A5-6  
1A6-7  
1A7-8  
1A8-9  
1A9-10  
1A10-11  
1A11-12  
1A12-13  
1A13-14  
1A14-15  
1A15-16  
1A16-17  
1A17-18  
1A18-19  
1A19-20  
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1A37-38  
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Havrona Environmental, Inc.  
 P.O. Box 35848  
 Albuquerque, NM 87176  
 Phone 505-232-9533  
 Fax 505-212-0069

havronaenvironmental  
 environmental consulting and safety

PLM BULK SAMPLE CHAIN OF CUSTODY

Alamogordo Public Schools  
 Name: Cissy Puma  
 Phone: 505-971-4938  
 Email: havronaenvironmental@yahoo.com  
 Page: 2 of 4

Sampled By: Cissy Puma  
 Date Sampled: 3-2-2020  
 Sampler's Signature: Scott Puma For Cissy Puma

Sample ID	Location	24 Hour	24 Hour	24 Hour	5-10 Day
SESA-H-2A1-15	Addition				
2A2-16					
2A3-17					
S-4A1-18					
4A2-19					
4A3-20					
4A4-21					
4A5-22					
4A6-23					
4A7-24					
S-4B1-25					
4B2-26					
4B3-27					
M-4C1-28					

Alamogordo Public Schools  
 Date of Collection: 3-3-2020  
 Date of Analysis: 3-4-2020 1:30 PM

CBR2003119

Havona Environmental, Inc.  
 P.O. Box 35848  
 Albuquerque, NM 87176  
 Phone 505-232-9533  
 Fax 505-212-4069

PLM BULK SAMPLE CHAIN OF CUSTODY

Sample Information		Date Sampled: 3-2-2020		Page: 3 of 4	
Sample ID	Location	Time	Day	Hour	Day
SESA-M-42-29	WALL				5-10 Day
463-30	↓				
5-401-31	↓				
402-32	↓				
403-33	↓				
M-5A1-34	CEILING				
5A2-35	↓				
5A3-36	↓				
M-5B1-37	CEILING				
5B2-38	↓				
5B3-39	↓				
M-10A1-40	DOOR				
10A2-41	↓				
10A3-42	↓				
Addition Sacramento Elementary School (Addition) Alamo, NM					
Sampled By: Cissy Puma		Date Sampled: 3-2-2020		Page: 3 of 4	
Sampler's Signature: <i>Cissy Puma</i>		Date: 3-2-2020		Page: 3 of 4	
Name: Cissy Puma		Email: havonaenvironmental@yahoo.com		Phone: 505-971-4938	
Address: Sacramento Elementary School (Addition)		City: Alamo, NM		State: NM	
County: Santa Fe		Zip: 87001		Country: USA	

Washed Vials 3/4/2020

AMP

0822003119

havonaenvironmental  
Environmental Monitoring and Testing

Havona Environmental, Inc.  
P.O. Box 35848  
Albuquerque, NM 87116

Phone 505-232-9533  
Fax 505-212-0069

**PLM BULK SAMPLE CHAIN OF CUSTODY**

Sacramento Elementary School (Addition)  
Alamogordo, NM

Alamogordo Public Schools

Alamogordo College of Education

Name: Cissy Puma Phone: 505-977-4938

Email: havonaenvironmental@yahoo.com

Page: 4 of 4

Date Sampled: 3-2-2020

Sampler's Signature: *Cissy Puma*

SESA - M-10B1 - 43

10B2 - 44

10B3 - 45

Addition

WAC

↓

↓

2-4 Hour

Same Day

24 Hour

2-Day

3 Day

5-10 Day

3-3-2020

*WAC*

*WAC*

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Phone 225-751-5632  
Fax 225-751-5634



**NVLAP #200772-0**  
**TDSHS #300370**  
**CDPHE #AL-18111**  
**LELAP #03069**

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

Attn: Cissy Puma

Customer Project: Sacramento Elementary School (Exterior)

Reference #: CBR20031121

Date: 3/6/2020

#### **Analysis and Method**

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as ≤1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

#### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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 Baton Rouge, LA 70809  
 Phone 225-751-5632  
 Fax 225-751-5634



**NVLAP #200772-0**  
**TDSHS #300370**  
**CDPHE #AL-18111**  
**LELAP #03069**

**Overview of Project Sample Material Containing Asbestos**

**Customer Project:** Sacramento Elementary School (Exterior) **CA Labs Project #:** CBR20031121

Sample #	Layer #	Analysts Subsample	Physical Description of	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
SESE-M-10C1-10	10-1	Tan Sealant		2% Chrysotile	Tan Sealant
SESE-M-10C2-11	11-1	Tan Sealant		2% Chrysotile	
SESE-M-10C3-12	12-1	Tan Sealant		2% Chrysotile	

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gyp - gypsum	qu - quartz	mw - mineral wool	
bl - binder		wo - wollastonite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ca - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and safe condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Phone 225-751-5632  
Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Exterior)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031121

**Date:** 3/6/2020

**Samples Received:** 3/4/2020

**Date Of Sampling:** 3/3/2020

**Phone #** 505-232-9533

**Fax #** 505-256-8237

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homog- eneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SESE-M- 9A1-1		1-1	Gray Sealant	Y	None Detected		100% qu, ma, bi
SESE-M- 9A2-2		2-1	White Sealant	Y	None Detected		100% qu, ma, bi
SESE-M- 9A3-3		3-1	White Sealant	Y	None Detected		100% qu, ma, bi
SESE-S- 10A1-4		4-1	Tan Textured Surfacing	N	None Detected		100% qu, ma, bi, ca
SESE-S- 10A2-5		5-1	Tan Textured Surfacing	N	None Detected		100% qu, ma, bi, ca
SESE-S- 10A3-6		6-1	Tan Textured Surfacing	N	None Detected		100% qu, ma, bi, ca
SESE-M- 10B1-7		7-	Gray Sealant	Y	None Detected		100% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

David Darby  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fibre Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fibre Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Phone 225-751-5632  
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NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Exterior)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031121

**Date:** 3/6/2020  
**Samples Received:** 3/4/2020  
**Date Of Sampling:** 3/3/2020  
**Purchase Order #:**

**Phone #** 505-232-9533  
**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SESE-M-10B2-8		8-1	Gray Sealant		Y	None Detected		100% qu, ma, ca
SESE-M-10B3-9		9-1	Gray Sealant		Y	None Detected		100% qu, ma, ca
SESE-M-10C1-10		10-1	Tan Sealant		Y	2% Chrysotile		98% qu, ma, bi
SESE-M-10C2-11		11-1	Tan Sealant		Y	2% Chrysotile		98% qu, ma, bi
SESE-M-10C3-12		12-1	Tan Sealant		Y	2% Chrysotile		98% qu, ma, bi
SESE-M-10D1-13		13-1	Tan Surfaced Gray CMU		N	None Detected		100% qu, ma, bi, ca
SESE-M-10D2-14		14-1	Tan Surfaced Gray CMU		N	None Detected		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

Identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	cs - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

David Darby  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthrophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Exterior)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031121

**Date:** 3/6/2020

**Samples Received:** 3/4/2020

**Date Of Sampling:** 3/3/2020

**Phone #** 505-232-9533

**Fax #** 505-256-8237

**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SESE-M-10D3-15		15-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca
SESE-S-10E1-16		16-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca
SESE-S-10E2-17		17-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca
SESE-S-10E3-18		18-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca
SESE-S-10E4-19		19-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca
SESE-S-10E5-20		20-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca
SESE-S-10E6-21		21-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - broctite
bl - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

David Darby  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers  
2. Fire Damage no significant fiber damages affecting fibrous percentages  
3. Actinolite in association with Vermiculite  
4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
5. Not enough sample to analyze

6. Anthrophyllite in association with Fibrous Talc  
7. Contamination suspected from other building materials  
8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
9. < 1% Result point counted positive  
10. TEM analysis suggested



**CA Labs**  
Dedicated to  
Quality

**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

## Polarized Light Asbestiform Materials Characterization

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Exterior)  
**Turnaround Time:** 3 day

**CA Labs Project #:**  
CBR20031121

**Date:** 3/6/2020  
**Samples Received:** 3/4/2020  
**Date Of Sampling:** 3/3/2020  
**Purchase Order #:**


**Phone #** 505-232-9533  
**Fax #** 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
SESE-S- 10E7-22		22-1	Tan Surfaced Gray CMU		N	None Detected		100% qu, ma, bi, ca


Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for  
Identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wolfeite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	ps - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

  
David Darby  
Analyst

Senior Analyst  
Alicia Stretz

  
Laboratory Director  
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unfiltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

*CBZ2003.12A*

PLM BULK SAMPLE CHAIN OF CUSTODY

Sacramento Elementary School (Exterior)  
Alamogordo, NM

Alamogordo Public Schools

Sampled By: Scott Puma or Clissy Puma  
Sampler's Signature: *[Signature]*

Name: Clissy Puma

Email: havonaenvironmental@yahoo.com

Date Sampled: 3-3-2020

Page: 1 of 2

Phone: 505-977-4938

Exterior

SESE - M-9A1-1

9A2-2

9A3-3

S-10A1-4

10B2-5

10A3-6

M-10B1-7

10B2-8

10B3-9

M-10C1-10

10C2-11

10C3-12

M-10B1-13

10B2-14

Roof DUCT

↑

SOFFIT

↑

Windows

↓

EXT. WALL

↑

2-4 Hour

Same Day

24 Hour

2 Day

3 Day

5-10 Day

3-3-2020

Maintained By

*[Handwritten Signature]*

*[Handwritten Signature]*

CR2003/21

Phone 505-212-9533  
Fax 505-212-0069

Havona Environmental, Inc.  
P.O. Box 35648  
Albuquerque, NM 87176

PLM BULK SAMPLE CHAIN OF CUSTODY

Sacramento Elementary School (Exterior)  
Alamogordo, NM

Alamogordo Public Schools

Date Sampled: 3-3-2020

Name: Cissy Puma

Email: havonaenvironmental@yahoo.com

Page: 2 of 2

SESE - 11-1053-15

S-10E1-16

10E2-17

10E3-18

10E4-19

10E5-20

10E6-21

10E7-22

Exterior



2-4 Hour

Same Day

24 Hour

2 Day

3 Day

5-10 Day

3-3-2020

Transfer papers 3/4/20/20

WSP: 10013045

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Fax 225-751-5634



NVLAP #200772-0  
TDSHS #300370  
CDPHE #AL-18111  
LELAP #03069

**Polarized Light Asbestiform Materials Point Count**  
Laboratory Analysis Report - Point Count

**Analysis and Method**

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Original asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

**Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP or AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

**Customer Info:** Attn: Cissy Puma  
**Havona Environmental**  
P.O.Box 35848  
Albuquerque, NM 87176

**Customer Project:**  
Sacramento Elementary  
School  
(Exterior)  
**Turnaround Time:** 24 hr

**CA Labs Project #:**  
CBR20031121B  
**Date:** 3/13/2020  
**Samples Received:** 3/13/2020  
**Date Of Sampling:**  
**Purchase Order #:**

Phone # 505-232-9533  
Fax # 505-256-8237

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
SESE-M-10C1-10	10-1	Tan Sealant	Y	1.50% Chrysotile
SESE-M-10C2-11	11-1	Tan Sealant	Y	1.50% Chrysotile
SESE-M-10C3-12	12-1	Tan Sealant	Y	1.25% Chrysotile

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.

Approved Signatories:

David Darby  
Analyst

Senior Analyst  
Alicia Stretz

Laboratory Director  
Chris Williams

# CA LABS

CA Labs, LLC  
 12232 Industriplex Blvd Suite 31/32  
 Baton Rouge, LA 70809

Phone: 225-751-5632  
 Fax: 225-751-5634  
 Mobile: 225-993-3471

**Chain of Custody**

CA Labs job#: CBR 20031121B

CA Labs Client Name: Havona Billing Address: \_\_\_\_\_  
 Client Address: \_\_\_\_\_ (If Different) \_\_\_\_\_  
 Phone Number: \_\_\_\_\_ Send Reports to (email address): \_\_\_\_\_  
 Fax Number: \_\_\_\_\_ PO# \_\_\_\_\_  
 Project Name: Sacramento Elem. Contact: Cissy Puma  
 Project Number: KE: CBR20031121 Results Reported Via: Email \_\_\_\_\_ Fax \_\_\_\_\_ Verbal \_\_\_\_\_

Total # Samples Submitted: <u>3</u>	Total # Samples to be Analyzed: <u>3</u>	Material Matrix: Air/Bulk/Wipe
--	---	-----------------------------------

Circle analysis and TA time: Please call ahead for availability of all rush/afterhours samples.

TEM:	AHERA	EPA Level II	Wipe	Micro-Vac	NIOSH 7402	Chatfield Bulk	Amphibole Separation
TAT	4 hour		8 hour	24 hour	2 day	3 day	5 day

PLM:	AHERA	400 Point Counts	1000 Point Counts	Gravimetric Point Count
TAT	2 hour	4 hour	8 hour	24 hour

Optical/IAQ:	Allergen: Tape/Bulk/Swab	Air-O-Cell	PCM	PCM (TWA)
TAT	2 hour	4 hour	8 hour	24 hour

Lead:	Paint Chips	Soil	Wipes	Air	TCLP
TAT	4 hour	8 hour	24 hour	2 day	3 day

Other analysis not listed: \_\_\_\_\_ TAT: \_\_\_\_\_

**Sample Information:**

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume(L)
	Please see attached email:		

3/13/00  
11:50 AM

Custody Information:  
 Samples relinquished: Email: Cissy Puma Signature/Date/Time  
 Samples received: Jennifer Walters Signature/Date/Time

Samples relinquished: \_\_\_\_\_ Signature/Date/Time  
 Samples received: \_\_\_\_\_ Signature/Date/Time



Administration Baton Rouge <calabsbr@calabsinc.com>

---

**Point Count**

1 message

CBR20031121B

---

**havona environmental** <havonaenvironmental@yahoo.com>  
To: Administration Baton Rouge <calabsbr@calabsinc.com>

Fri, Mar 13, 2020 at 11:49 AM

Will you please point count the following samples on a 24 hour TAT:

CBR20031121

Project: Sacramento Elementary School (Exterior)

Samples: SESE-M-10C1-11, 10C2-12, 10C3-13

**Please stop on first positive.**

Thank you!

Cissy Puma

Environmental Consultant

Havona Environmental, Inc.  
P.O. Box 35848  
Albuquerque, NM 87176

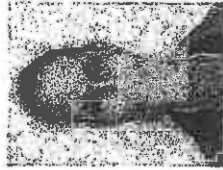
Phone: 505-977-4938  
Fax: 505-256-8237

Jennifer Walters  
3/13/20 11:50AM

## **APPENDIX D**

# CERTIFICATE OF TRAINING

EPA/AHERA Training Program



This is to certify that

**CISSY PUMA**

NM. DL. 101 352 391

Has completed 4 hours of training and PASSED the test required by Section 206 of TSCA Title II and in accordance with LOUISIANA STATE ASBESTOS REGULATIONS entitled,

## ASBESTOS BUILDING INSPECTOR REFRESHER

(English)

PRESENTED BY

Mendez Environmental™  
1005 Veterans Mem Blvd  
Suite, 101  
Kenner, LA 70062  
Tel: (504) 468-8858



IN COLLABORATION WITH

DC Environmental  
P.O. Box 9315  
Albuquerque, NM 87119  
Tel: (505) 869-8000  
www.dcenvironmental.net



Director:

*Josefina Mendez-Rosa*  
Josefina Mendez-Rosa

NM Program Manager/Instructor:

*David Charlesworth*  
David Charlesworth

Instructor:

*Jeff Biedenbach*  
Jeff Biedenbach

Course Date: 01-06-2020

Certificate Number: AS0120KNMPCP22063

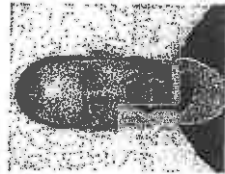
Test Date: 01-06-2020 Grade: PASS

Expiration Date: 01-06-2021



# CERTIFICATE OF TRAINING

EPA/ASHERA Training Program



*This is to certify that*

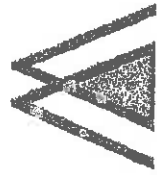
**SCOTT PUMA**  
NM, DL. 120 639 749

Has completed 4 hours of training and **PASSED** the test required by Section 206 of TSCA Title II and in accordance with LOUISIANA STATE ASBESTOS REGULATIONS entitled,

## ASBESTOS BUILDING INSPECTOR REFRESHER

(English)

PRESENTED BY  
Mendez Environmental™  
1005 Veterans Mem Blvd  
Suite, 101  
Kenner, LA 70062  
Tel: (504) 468-8858



IN COLLABORATION WITH  
DC Environmental  
P.O. Box 9315  
Albuquerque, NM 87119  
Tel: (505) 869-8000  
[www.dcenvironmental.net](http://www.dcenvironmental.net)



Director:

*Josefina Mendez-Rosa*

NM Program Manager/Instructor:

*David Charlesworth*

Instructor:

*Jeff Biedenbach*

Course Date: 01-06-2020

Certificate Number: AS0120KNMPSP22062

Test Date: 01-06-2020 Grade: PASS

Expiration Date: 01-06-2021

**SECTION 02 82 14  
ASBESTOS REMEDIATION  
(BID LOT #2)**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. This Section includes removal and disposal of asbestos-containing materials by full enclosure, glove bag, or entire structures methods as applicable. Demolition and debris removal of all asbestos containing materials identified by provisions of this Section, or shown on drawings, or identified at the site, shall be executed under the provisions of this Section, and other applicable sections of these specifications.
- B. Extent of asbestos removal work is as follows:
  - 1. Surveyed and listed in "Schedule of Items Containing Asbestos" as specified in related section 00 3126 Existing Hazards Materials, and as indicated on the drawings. Proceed with Work of this Section simultaneously (if required) and in coordination with, remaining work of the project.

**1.02 RELATED SECTIONS**

- A. Section 00 3126 – Existing Hazard Materials.
- B. Demolition and removal of items not containing asbestos as a component is included in Division 02 Section "Selective Demolition".

**1.03 SUBMITTALS**

- A. Reference Section 00 3300 – Submittal Procedures.
- B. Contractor is responsible for complying (and submittal procedures) with regard to all local, state and national codes and regulations required for asbestos abatement. Contractor shall coordinate all required submittals
  - 1. Qualified Contractors for asbestos remediation in NM shall fully complete the New Mexico electronic submittal NESHAP form, available on the New Mexico Environment Department web site at <https://www.env.nm.gov/air-quality/asbestos-2/>. Submit in PDF format as required.
  - 2. Requirements for Demolition in New Mexico: A Notice of Intent on the asbestos NESHAP form is required 10 business days in advance of the scheduled start date of demolition of any commercial or industrial building or residence larger than four units. The notice must include certification that the building is free of asbestos and an explanation of how that determination was made.
- C. Waste Disposition Submittals: As required by State regulations, submit signed waste shipment record stating that asbestos waste has been properly disposed. Submit the following:
  - 1. Receipts (trip tickets) from approved landfill.

2. Asbestos Waste Shipment Record: As follows:

- a. Prior to removing asbestos-containing material from the project site, provide Owner's Representative or Owner's consultant with a completed waste shipment record fully complying with Section 61.150 of the NESHAP standard, and 49 CFR Part 172.200 of the U.S. Department of Transportation, and including all required information.
- b. Ensure that the landfill operator provides a signed copy of the waste shipment record to NMED within the required days of the date that asbestos-containing material is removed from the project site. If waste is not transported directly from the project site to the landfill, the waste shipment record shall reflect each transfer.
- c. The Owner will not make final payment prior to receipt of signed waste shipment record.

**PART 1 – GENERAL**

**2.01 PRODUCTS (NOT APPLICABLE)**

**PART 3 – EXECUTION**

**3.01 GENERAL:**

- A. Contractor is responsible for verifying quantities and location of asbestos materials identified in the referenced asbestos abatement report. Contractor is responsible for the complete asbestos removal of the identified hazard and is completely responsible for following all National, State & local laws governing asbestos removal and/or remediation. Certifications of the abatement shall be presented to the Owner and Architect.
- B. Secure entire work area to prevent entry of unprotected/unauthorized persons.
- C. Cover, isolate, and seal work area walls and floors completely; including fixed equipment, doors, windows, skylights, lighting fixtures, duct openings, and all other openings into work area. Use polyethylene sheeting and seal edges with polyethylene adhesive tape.
- D. Build triple barriers of plastic sheeting at all entrances and exits to the work area so that the area is always closed off by one barrier when workers enter or exit.
- E. Establish emergency and fire exits from the work area as part of the written emergency action plan.
- F. Locate at the project site the log sheet sign in for all persons entering work area from the beginning to the completion of the final clearance of the abatement project.

**END OF SECTION**