

CITY OF CASA GRANDE, ARIZONA

NOTICE OF BID

The City of Casa Grande will receive sealed bids for the following:

AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2

Each bid shall be in accordance with the specifications and instructions on file with the City Clerk at City Hall, 510 East Florence Boulevard, Casa Grande, Arizona, 85122, where copies can be obtained by visiting our web page at www.casagrandeaz.gov or calling the City Clerk's Office (520) 421-8600.

All bids must be submitted by **October 07, 2014 at 1:30 P.M.**, City time to the City Clerk, Remilie Miller, 510 East Florence Boulevard, Casa Grande, Arizona, 85122. The bid opening will take place on **October 07, 2014 at 1:30 P.M.** in the Main Conference Room (2nd Floor), 510 East Florence Boulevard, Casa Grande, Arizona, 85122.

A pre-submittal conference and site visit will be conducted at **9:00 a.m. on Monday, September 22, 2014** at the Casa Grande North Operation Center, 3181 N. Lear Avenue, Casa Grande, Arizona 85122.

Bids must be addressed to:

**Remilie S. Miller
City of Casa Grande
510 East Florence Boulevard
Casa Grande, Arizona 85122**

The envelope must be boldly marked:

**BID ON: AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2
FOR THE CITY OF CASA GRANDE
BID OPENING: OCTOBER 07, 2014 AT 1:30 P.M.**

The City of Casa Grande reserves the right to waive any informalities or irregularities in this Request for Bids, or to reject any or all bids; to be the sole judge of the suitability of the materials offered, and to award a contract or contracts for the furnishing of one or more items of the services it deems to be in the best interest of the City.

/s/James V. Thompson
City Manager

CITY OF CASA GRANDE
NOTICE OF INVITATION FOR BIDS

AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2

BID DUE DATE:	October 07, 2014 1:30 P.M. LOCAL AZ TIME
SUBMITTAL LOCATION:	Remilie S. Miller City of Casa Grande Clerk's Office 510 East Florence Blvd. Casa Grande, AZ 85122
PRE-BID CONFERENCE / SITE VISIT DATE: TIME: LOCATION:	September 22, 2014 9:00 A.M. LOCAL AZ TIME North Operations Center 3181 North Lear Avenue Casa Grande, Arizona 85122

Any requests for **procedural** clarification or additional information regarding the submission of this Invitation to Bid shall be directed to:

City of Casa Grande Clerk's Office
510 East Florence Blvd.
Casa Grande, AZ 85122

Requests for **technical or other** information shall be directed to:

Abdul Rashid, PE, CFM
Civil Engineer
(520) 421-8625

INTERESTED BIDDERS MAY OBTAIN A COPY OF THIS SOLICITATION BY VISITING OUR WEB PAGE AT WWW.CASAGRANDEAZ.GOV OR CALLING THE CITY CLERK'S OFFICE (520) 421-8600.

Competitive sealed bids for the specified material or service shall be received by the City of Casa Grande Clerk's Office, 510 E. Florence Boulevard, Casa Grande, Arizona 85122, until the time and date cited. Bids received by the correct time and date shall be publicly recorded. The City of Casa Grande takes no responsibility for informing recipients of changes to the original solicitation documents. Failure to submit amendments with the solicitation response shall be grounds for deeming bid non-responsive.

Bids must be in the actual possession of the Clerk's Office at the location indicated, on or prior to the exact time and date indicated above. Late proposals shall not be considered. The prevailing clock shall be the City of Casa Grande City Clerk's office clock.

Bids must be submitted in a sealed envelope. The **Bidder's name and address** should be clearly indicated **on the outside** of the envelope. All bids must be completed in blue or black ink or typewritten. Questions must be addressed to the persons listed above.

**SPECIFICATIONS
AND
CONTRACT DOCUMENTS**

FOR

CITY OF CASA GRANDE

AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2

CITY COUNCIL:
Mayor Robert Jackson
Mayor Pro Tempore Mary Kortsen
Dick Powell
Karl Montoya
Matt Herman
Lisa N. Fitzgibbons
Ralph Varela

CITY MANAGER
Jim Thompson

CITYCLERK:
Remilie Miller

PUBLIC WORKS DIRECTOR:
Kevin Louis

PROJECT MANAGER:
Abdul Rashid, PE, CFM

PROJECT DESIGNER:
William R. Thompson, AIA, PE



Expires: 09/30/2016

Project No. 14-AIR-3011
August 20, 2014

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INFORMATION TO BIDDERS

I. SECURING BID DOCUMENTS

Exhibits and Specifications can be obtained by visiting our web site at www.casagrandeaz.gov or calling the City Clerk Department (520) 421-8600.

II. ADDITIONAL INFORMATION

Abdul Rashid, PE, CFM
Civil Engineer
City of Casa Grande
510 E. Florence Blvd.
Casa Grande, AZ 85122
(520) 421-8600
Extension: 3342

III. CONTENT OF BID

The Bid package should contain the following:

- * Call for Bids Notice
- * Information to Bidders'
- * General Information/Bid Specifications
- * Bid Form
- * Check List (If applicable)
- * Certification of Bid

IV. INTERPRETATION OF DOCUMENTS

If any person contemplating submitting a bid is in doubt as to the true meaning of any part of this Request for Bids, or finds discrepancies in or omissions from the specifications, the Bidder may submit to the City Clerk, a written request for an interpretation or correction thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation or correction of the proposed documents will be made only by Addendum duly issued by the City, and a copy of such Addendum will be mailed or delivered to each person who received a Bid Packet.

All addendums will be forwarded to the City Clerk's Office to be included in the Original Bid Packet. The City will not be responsible for any other explanation or interpretation of the Request for Bids.

V. ANY ADDENDUMS OR BULLETINS

Any addendums or bulletins issued by the City during the time of bidding or forming a part of the documents provided to the Bidder for the preparation of the bid shall be covered in the bid and shall be made part of the contract. No addendums will be issued closer than five (5) days prior to the bid opening.

VI. WITHDRAWAL OF BIDS

Any Bidder may withdraw his bid, either personally or by a written request, at any time prior to the scheduled time for the opening of bids.

VII. ECONOMY OF PREPARATION

Bids should be prepared simply and economically, providing a straightforward, concise description of the Bidder's capabilities to satisfy the requirements of these guidelines. The Bidder shall be responsible for costs incurred in the proposal preparation and delivery.

VIII. SCHEDULE

The following schedule is planned, but subject to change at the sole discretion of the City:

Call For Bid	September 05, 2014
Pre Bid Meeting and Site Visit	September 22, 2014 at 9:00 a.m.
Last Date to Submit Bids	October 07, 2014 by 1:30 p.m.
Bid Opening	October 07 2014 at 1:30 p.m.
Bid Review	October 13, 2014
Bid Award (1 st City Council Reading)	November 03, 2014

IX. EVALUATION PROCESS

Bids that are judged by the City to be unresponsive or materially incomplete will be immediately rejected. Finalists will be selected from the remaining Bidders.

The City will perform whatever research it deems necessary into the Bidder's history, financial viability and references. The Bidder shall cooperate with the City Engineer or his designated representative by providing appropriate information.

X. EVALUATION CRITERIA

The following elements, in addition to price, shall be given consideration in evaluating the qualifications of and degree of responsibility to be credited to the Bidder: (1) the ability, capacity and skill of the Bidder to perform the contract; (2) the character, integrity, reputation, judgment, experience, and efficiency of the Bidder; and (3) whether the Bidder can perform the contract within the times specified.

Each Bidder shall demonstrate to the satisfaction of the City that the Bidder has sufficient qualifications to perform the work under this contract. The burden to demonstrate such qualifications shall be on the Bidder. The Bidder must be licensed and registered as a Contractor in accordance with the laws of the State of Arizona (which is required in order for a Bidder to submit a bid hereunder). **Each Bidder must have successfully completed three (3) similar projects in the past 5 years and must submit the Contractor Experience/References.** The projects must have been performed satisfactorily, have been of like nature, magnitude and comparable difficulty.

Each Bidder shall be skilled and regularly engaged in the general class and type of work called for under this contract. It is the intention of the City to award this contract to a Bidder who furnishes satisfactory evidence of its key personnel's, and its proposed subcontractors', requisite experience and ability and of sufficient capital, facilities, and plant to enable prosecution of the work successfully and properly and within the time named in the contract.

XI. EXAMINATION OF SITE

Bidders must satisfy themselves by personal examination of the location of the proposed work as to the accuracy of the estimate of the quantities of the work to be done, and shall not at any time after the submission of a bid dispute, complain of such estimate, nor assert that there was any misunderstanding in regard to the nature or amount of work to be done.

XII. BID ITEMS

The Bidders shall not at any time after the submittal of their bids have any claim for damages as a result of the lowering of anticipated profits or the loss of profits because of any difference between the quantities of work actually done and those stated in the bidding sheets.

All work as set forth in the Contract Documents is to be accomplished. Bidder shall include in the bid item or items, of work, funds to allow for compensation for all work for which specific bid items are not provided.

XIII. DELIVERY OF PRODUCT/COMPLETION OF WORK

The Contractor shall complete all submittals within fourteen (14) calendar days of the notice to proceed. **The work described herein must be complete within 60 calendar days of the notice to proceed.**

XIV. EXECUTION OF AGREEMENT

The successful Bidder will be required to enter into a formal agreement that is consistent with the bid package outlined within. The Bidder to whom the Contract is awarded by the City shall within 15 days after notice of award and receipt of Agreement forms from the City, sign and deliver to the City all required copies of said Agreement. (Sample of Agreement attached in bid packet – specifics may change to comply with bid specifications)

XV. MISCELLANEOUS INFORMATION

- A. All prices quoted will reflect the total to the City for the item/project/service and shall include all applicable taxes, and other charges.
- B. The City will not honor any invoices or claims that are tendered sixty (60) days after the close of the City's fiscal year for work completed.
- C. The City is not responsible for any Bidder's, or their subcontractor's, errors or omissions.

- D. All bids submitted to the City are to remain firm for a minimum period of ninety (90) days from the date the bids are officially opened.
- E. The selected bid is not officially accepted until such time as the successful Bidder receives written notice of acceptance from the City Clerk.
- F. If the successful bidder conducts business inside the City Limits, then a business license number is required.
- G. Where the Bidder is a corporation or other type of legal entity, bids must be signed in the legal name of the entity followed by the name of the state of incorporation or place of formation, and the legal signature of an officer authorized to bind the entity to a contract.

XVI REJECTION OF THE BID

OWNER reserve the right to reject any and all bids received.

GENERAL INFORMATION

AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2

1. GENERAL INFORMATION

I. INTRODUCTION

The City of Casa Grande is accepting proposals from qualified contractors for the rehabilitation of two existing 50+/- year old Hangars as shown on the attached site plan. Contractor is responsible for obtaining all necessary permits, including structural and electrical. Any professional services required to obtain the required permit to and/or to install the improvements per the attached plans, are to be considered incidental to the installation. The work may also involve permitting from County and state departments.

The project is a performance base construction contract in which any professional services required for products, means or methods are considered incidental. The contractor shall provide all labor and materials necessary to furnish and install repairs and improvements to the hangars. The contractor may propose alternatives for the purpose of meeting or exceeding expectations. However, any alternatives need to be approved by the City Engineer.

II. BACKGROUND

The City of Casa Grande Municipal Airport provides aviation services to multiple types of aircraft both day and night that includes the hangar facilities for various aircraft and under operations providing aircraft and like operational services.

III. PROJECT OBJECTIVE

The objective of this project is to meet the expanding needs and services of the Municipal Airport operations and improve hangar facilities for aircraft storage.

2. PRE-BID CONFERENCE

Perspective Bidders are invited to attend a mandatory pre-bid conference to be held on **September 22th, 2014, 9:00 A.M. Local Arizona Time**, at the North Operations Center located at 3181 North Lear Avenue, Casa Grande, AZ 85122, which will be followed by the tour of the Facility. The purpose of this conference will be to clarify the contents of this Invitation for Bid in order to prevent any misunderstanding of the City's position. Any doubt as to the requirements of this Invitation for Bid or any apparent omission or discrepancy should be presented to the City at this conference. The City will then determine the appropriate action necessary, if any, and issue a written amendment to the Invitation for Bid. Oral statements or instructions shall not constitute an amendment to this Invitation for Bid.

3. SUBMITTING BIDS

- (1) No bid will be considered unless it is made upon the proposal form(s) contained in and submitted with the project proposal pamphlet. No project proposal pamphlet shall be disassembled. All blank spaces for proposal prices must be filled in, in ink, typewritten or printed, in both words and figures.

- (2) A bid may be withdrawn prior to the time set for opening of bids.
- (3) Bids received after the time and date specified in the "Notice of Bids" will be returned unopened to the Bidder.

4. BID BOND REQUIREMENTS

- (1) No proposal will be read unless accompanied by a proposal guarantee in the form of a certified or cashier's check, or surety bond in the amount of 10% of the contract amount. The guarantee shall be made payable and acceptable to the City of Casa Grande.
- (2) Such bonds shall be executed solely by a surety company or companies holding a certificate of authority to transact surety business in the State of Arizona as issued by the Director of the Arizona Department of Insurance. Such bonds are not to be limited as to the time in which action may be instituted against the surety company. The bond(s) shall be made payable and acceptable City of Casa Grande and shall be written or countersigned by an authorized representative of the surety who is either a resident of the State of Arizona or whose principal office is maintained in this State, as required by law, and the bond(s) shall have attached thereto a certified copy of Power of Attorney of the signing official.
 - (a) All proposal guarantees except those of the three lowest qualified Bidders will be returned immediately following the opening and checking of proposals. The proposal guarantee of the three lowest qualified Contractors will be returned immediately after the contract documents have been executed.

5. AWARD AND EXECUTION OF THE CONTRACT

- (1) The contract will be awarded, or all bids rejected, as soon as practical after the date of opening of bids, as stated in the "Notice of Bid". The contract will be awarded within 90 days after the bid opening date, unless agreed upon in writing by both parties to the contract.

Award of this contract will be for the lowest qualified Lump Sum price of Base Bid plus identified alternates of the sequences listed on the bid form.
- (2) Protest Procedure: All bid protests shall be submitted, and will be decided, pursuant to Casa Grande City Code Section 3.04.170. The City of Casa Grande reserves the right to reject any or all bids, to waive irregularities of information in any bid, and/or to take any steps determined prudent in order to resolve the protest.
- (3) Bonds in the following amounts will be required ten (10) working days after notice of award and receipt of contract:
 - (a) Bond for benefit of labor and material suppliers, 100 percent of the bid price.
 - (b) Bond for performance of contract, 100 percent of the bid price.
- (4) Information relative to execution of the contract documents may be obtained from the City Clerk's Office, City of Casa Grande, 510 E. Florence Blvd., Casa Grande, Arizona 85122.

6. **START AND COMPLETION OF WORK**

- (1) Work shall start within ten working days after the starting date set forth in the "Notice to Proceed" and shall be completed within 60 calendar days of said starting date. The time allowed for completion of the work includes "lead time" for obtaining necessary materials and/or equipment.
- (2) Liquidated damages in the amount of five hundred dollars (\$500) per calendar day may be assessed for each day the Work remains incomplete after the scheduled and agreed upon completion date.

7. **QUANTITIES**

- (1) All quantities are to be determined prior to bid submission and included within the lump sum bid.

8. **BREAKDOWN FOR PAYMENT**

- (1) A schedule of values with line items identified for all material suppliers and sub contracted work and labor, material and administrative and overhead and profit items shall be provided for the total contract amount within 12 working days after notice to proceed issued. Schedule of values form will be provided in Excel format by the Architect of Record.
- (2) Payment for the various items of the contract will be made as work is completed satisfactorily as shown on the plans and as required in the specifications with all related work completed.
- (3) Partial lien waivers will be required for all prior payments for identified services of the schedule of values up to the final payment which an unconditional lien waiver will be required of all material and service providers.
- (4) Partial payments may be made once a month based upon satisfactory completion of work in progress. No payment will be made for amounts less than Five Hundred Dollars (\$500.00).
- (5) A retainage of 10 percent shall be deducted from all partial payment requests up through completion of fifty percent of the scheduled construction activities. A retainage of 5 percent will be subtracted from all subsequent partial payment requests to insure satisfactory completion of the work by the contractor. The retainage shall be released to the contractor upon final acceptance of the contractor's final invoice.

In accordance with State statutes, the contractor may post securities in an escrow account in lieu of the 10% retention. The worth of the securities shall be of an amount equal to or greater than 10% retention.

9. **INSURANCE REQUIREMENTS**

- (1) Without limiting any of the other obligations or liabilities of the contractor, the contractor shall provide and maintain, until the work is completed and accepted by the

City, minimum insurance coverage as required in Section 103.6 of Maricopa Association of Governments (M.A.G) Specifications General Conditions except as otherwise indicated in the City Contract Documents.

- (2) Within ten (10) working days after notice of award and receipt of contract, the contractor shall submit to the City Engineer a "Certificate of Insurance" form completed by his insurance carrier or agent certifying that minimum insurance coverage's as required are in effect and will not be canceled or changed until 10 days after written notice is given to the City of Casa Grande.
- (3) These policies shall not expire until all work has been completed and the project has been accepted by the City of Casa Grande. (If a policy does expire during the life of the contract, a renewal certificate of the required coverage must be sent to the City of Casa Grande not less than five (5) days prior to the expiration date.)
- (4) The Contractor shall purchase and maintain, during the contract time, insurance as listed in the Contract. The contractor will be required to provide evidence of such insurance prior to issuance of the Notice to Proceed in a form acceptable to the City of Casa Grande.

The certificate of insurance shall name as additional insured the City of Casa Grande. As required by law, the certificate of insurance shall be provided by an insurance carrier(s) authorized to do business in the State of Arizona, or countersigned by an agent of the carrier authorized to do business in the State of Arizona.

Additionally, the Contractor will be required to purchase and maintain Worker's Compensation insurance, including occupational disease provisions, for all employees at the site of the project. In case any work is sublet, the Contractor shall require such Subcontractor similarly to provide Worker's Compensation insurance, including occupational disease provisions, for all the latter's employees unless such employees are covered by the protection afforded by the Contractor.

Also:

Property Damage Insurance	\$500,000 each person \$1,000,000 each accident
Protective Liability Insurance	\$500,000 each person \$1,000,000 each accident

10. AFFIDAVIT FORMS

- (1) The Affidavit of Non-Collusion form in this proposal must be filled out completely by each CONTRACTOR prior to the time set for opening of bids.

11. PERMITS AND FEES

- (1) Payment of fees for permits issued by the City of Casa Grande for work conducted within any City of Casa Grande rights-of-way normally requiring a permit from the City will be waived.
- (2) City business licenses will be required of the prime contractor and all subcontractors performing work within the City of Casa Grande.

12. CONTRACTORS LICENSE LAW

Contractor shall comply with, and require all subcontractors to comply with State and City Contractors License Law, and be duly registered and licensed there under. Contractors shall comply with the provisions of "an Act to Regulate the Business of the Contracting", Title 32, Chapter 10, Arizona Revised Statutes and "Rules and Regulations for Contractors", dated March 1969, or the latest revision thereof adopted under the provisions of A.R.S. Title 32, Chapter 10.

13. **SUMMARY OF ITEMS TO BE SUBMITTED WITH BID**

- (1) Proposal Forms - Completely executed and signed (P/1 thru P/4).
- (2) Certification of Bid.
- (3) Bid Security - Acceptable Surety Bond, Certified Check or Cashier's Check in the amount of not less than ten percent (10%) of the total bid price.
- (4) Affidavit of Non-Collusion (AN/1).

14. **BID SUBMITTAL DEAD LINE**

(1) Sealed bids marked "**AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2**" will be received on or before **October 07, 2014 by 1:30 P.M.** in the office of the City Clerk, Casa Grande City Hall, 510 E. Florence Blvd., Casa Grande, Arizona, 85122. Bids will be opened and read aloud immediately thereafter.

TECHNICAL SPECIFICATION

AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2

1.0 ABBREVIATED SCOPE OF WORK

The project is a performance based construction contract in which any professional services required for products, assemblies to be installed or means and methods of installation are to be considered incidental. Annotations on plans provide product and procedural specifics.

The work required under this project consists of but not limited to:

- Installation of column base repairs, sheet metal siding repairs, hangar door repairs, paving elevation adjustments at door entrances, gutters and downspout installation and drainage details as alternates are selected.
- All work shall provide matching profiles, colors and details as the existing structures have.
- Contractor shall pull any and all the permits required by either the City, County, or the State in order to perform the work described herein. The fees for such permits will be reimbursable by the City.
- The contractor shall provide all labor and materials required to finish this project and hand over a completed installation for the staff use.
- The Contractor shall provide all labor and materials necessary to furnish and install all components of building and site improvements as indicated on plans.
- Contractor is to provide all product Warrantees and Operations and Maintenance manuals and other necessary information of products provided to the project.
- Owner has conducted NESHAP inspections and has cleared the project of any asbestos or Lead Based paint. See attached report.

2.0 WARRANTY

The Contractor shall warrant all work to be of quality construction and free of defective parts and workmanship. In the event a component fails to perform as specified, or is proven defective in service during the one (1) year guarantee period, the contractor shall provide a replacement part and repairs without any cost to the Owner. The Contractor shall further provide, without cost, any such labor as may be required to replace, repair, or modify the work provided.

3.0 SHOP DRAWINGS

The contractor should submit the shop drawings of all products and connections proposed for or within the proposed work or for any other equivalent system to the OWNER for approval. The contractor shall obtain Owner approval prior to any manufacturing and/or installations of any product or installation alternates. Shop drawings are to be prepared/sealed by the appropriate design professional(s) when so required. Work initiated prior to approval of shop drawings will not be approved nor paid for.

4.0 BASE BID AND ALTERNATES DESCRIPTIONS

GENERAL:

The individual hangar bays will have aircraft removed by the Airport Operations Manager (AOM) temporarily for daily work within the bay but will be returned at the end of the day by the Airport Operations Manager (AOM) and shall be secured within by the contractor. All present miscellaneous stored materials of the user will be removed to provide work spaces for contractor access and will not be returned. The contractor shall identify no more than two hangar bays to refurbish at a time and completely secure the entire hangar building at the end of each day with all previous housed aircraft stored. A schedule of proposed work shall be submitted to the Airport Operations Manager (AOM) prior to work start. Access to the work area will be by authorized personnel only and at times as mutually agreed upon with the AOM. Parking and material marshalling areas will be by mutual agreement with the AOM. All OSHA standards shall be maintained and cooperation with the staff and AOM maintained. Contractor shall provide at the work site all porta potties, water, temporary portable electrical power and other such utilities as necessary for the completion of the work. An 8 hour work day shall be used unless mutually agreed upon by the AOM. No indiscriminate use of the Airport area or facilities shall be used.

Allowances: The contractor shall include in the Contract Sum the cash amount of **\$5,000** and be implemented only as herein identified for work of allowances. Allowances will not be used for any contractor underbidding, oversights, construction defects or unapproved extras or similar costs.

1. Coordinate allowance work with related work, to ensure that each selection is completely integrated and interfaced with related work.
2. Requirements for the work of allowances will be as directed and authorized by the AOM. Any unused portions of the allowances will be credited to the Contract.
3. Unused portions of allowances shall not be included in pay request calculation as retainage. Retainage shall be held in addition to unused portion of allowances.

BASE BID:

Repair of column bases of areas indicated on plans may require the temporary dislodging of siding or other sheet metal materials in and around the affected area. Contractor shall prepare the column base location for the wire brushing or other methods of rust removal, clean, prime and apply overlay materials per the manufacturer's recommendations up to a height of 1'-2" above the concrete floor. The installation of all angles, plates, bolts, etc. using welding, drilling and epoxy setting, painting all shall be with methods to minimize the dust dispersion or any overspray at the site and within the Hangar. After repairs are completed return the adjacent materials to the original condition and location.

Hangar door repairs shall be performed at locations as indicated on the plans by readjusting track travel, repair of tracks, repair of rollers where deteriorated, installing modified seals, replacing panels at discrete locations to accommodate hangar door repairs to operate to full capacity. Fiber reinforced vinyl gasket materials shall be used to form door jamb seals and seals at other locations needed to provide weather protection.

BASE BID + ALTERNATE #1:

The contractor shall provide the base bid with the addition of alternate #1. Contractor shall provide such asphalt milling as indicated on the plans around the perimeter of the hangars to obtain a positive slope away from the hangars. Upon completion of milling operations then such improved areas are to be patched where needed and then install a seal coat of two applications per MAG standards.

BASE BID + ALTERNATE #1 + ALTERNATE #2:

The contractor shall provide base bid with alternate #1, with the addition of alternate #2. The installation of gutters and downspouts as indicated on plans shall be installed to direct the gutter collected water to the down slope areas of the newly developed drain slope away from the Hangars. Gutter profiles and downspout sizes and locations are as indicated on the plans.

BASE BID + ALTERNATE #1 + ALTERNATE #2 + ALTERNATE #3:

The contractor shall provide base bid with alternate #1, alternate #2, with the addition of alternate #3. Contractor shall Repair rusted base end panel sheets of the fixed wall portions of the Hangar bays at locations as indicated on the plans. Annotations on plans at the siding base require a 16 ga. "Z" shape be formed as dimensioned and installed on the base end of the panels that have been shortened by a nibbler (verses sawing) and set in a bed of clear sealant. Individual Siding Panels must be removed to shorten then reinstalled. No in place cutting is permitted. Z shapes shall then be set in a bed of clear sealant or approved alternates and fastened to the concrete floor with fasteners as indicated on the plans.

Contractor shall remove panels from the entire East end of Hangar #2 (Hanger #1 east end to remain as-is), clean, remove existing surfacing and repaint with a matching color paint as recommended by panel manufacturers and as noted on the plans and store as available replacements. The East end wall shall then have a new panel installed of similar profile but not necessarily exact and color of the existing siding installed complete with a weather tight installation. Existing Panels that were removed from the East wall of Hanger #2 will then be used as a resource for the patching, repairing or overlaying of existing 50 year old 40" wide panels to match the profile of existing siding where needed. These existing panel profiles will be a resource inventory for matching panels. If any siding materials are deteriorated then remove such material and replace with like siding or sheet metal materials as available from the resources developed for the extra siding obtained from the removal of the east end wall of hangar #2 as noted on the drawings.

Where wall siding materials are deteriorated then remove such material and replace with like siding or sheet metal materials as available from the resources developed for the extra siding obtained from the removal of the east end wall of hangar #2 as noted on the drawings. Locations of local wall siding damages or deterioration are indicated on the plans.

BID PROPOSAL

AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2

Place _____

Date _____

City Engineer
City of Casa Grande
Casa Grande, Arizona

In compliance with your invitation for bids and all conditions of the Contract Documents, the undersigned _____, a corporation organized under the laws of the State of, *_____, a partnership consisting of _____ or individual trading as _____

in the City of _____, having examined the Contract Documents, site of work, and being familiar with conditions to be met, hereby proposes and agrees to furnish and provide all materials, labor, construction equipment, and everything necessary for completion of the work described in the "Notice for Bids for the City of Casa Grande", and to construct the same and install the material therein for the Owner in a good and workmanlike manner and to the satisfaction of the Owner, through its Engineers and under the direction and supervision of its Engineer, or their properly authorized agents and strictly pursuant to and in conformity with the Specifications and Plans prepared by the Engineers for the Owner, and with such modification of same and other documents that may be made by the Owner through its Engineers or their properly authorized agents, as provided herein, at the following unit prices for the work described:

*Insert names of president, secretary and treasurer of corporation.

BID SCHEDULE

AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2

BASE BID:

Item No.	Description	Quantity	Cost	Remarks/Description
1.	Furnish and Install all work as identified on the plans as the Base Bid	1		Lump Sum
2.	Furnish and Install all work as identified on the plans as the Base Bid + Alternate #1	1		Lump Sum
3.	Furnish and Install all work as identified on the plans as the Base Bid + Alternates #1 + Alternative #2	1		Lump Sum
4.	Furnish and Install all work as identified on the plans as the Base Bid + Alternates #1+ Alternative #2+ Alternative #3	1		Lump Sum

BASIS FOR BID

The contractor must bid the Base Bid in its entirety and the scope of work is identified on the plans and shall include but not be limited to the general description listed in the Technical Specifications of this document. Base bid and selected alternates are identified to award as the owner's budget will allow.

ACCEPTANCE OF PROPOSAL

Award of this contract will be for the lowest qualified base bid or the lowest qualified total of the base bid plus selected alternates.

I. **BASE BID** – Furnish and Install all work as identified on the plans as the Base Bid

TOTAL \$ _____

II **BASE BID+ALTERNATIVE #1** – Furnish and Install all work as identified on the plans as the Base Bid plus Alternate #1

TOTAL \$ _____

III **BASE BID+ALTERNATIVE #1+ALTERNATIVE #2** – Furnish and Install all work as identified on the plans as the Base Bid plus Alternate #1 and #2

TOTAL \$ _____

IV **BASE BID+ALTERNATIVE #1+ALTERNATIVE #2+ALTERNATIVE #3** – Furnish and Install all work as identified on the plans as the Base Bid plus Alternate #1 and #2 and #3

TOTAL \$ _____

The undersigned hereby declares that he/she has visited the site and has carefully examined the Contract Documents relating to the work covered by the above bid.

The undersigned understands that any quantities stated or implied in the specifications or elsewhere in the Contract Documents are approximate only, and are subject to increase or decrease, and hereby proposes to perform all quantities of work as either increased or decreased, in accordance with the provisions of the specifications.

The undersigned understands that his proposal shall be submitted with a proposal guarantee of Certified Check, Cashier's Check or Surety Bond for an amount not less than 10 percent of the amount bid, Certification of Bid and a completed Affidavit of Non-Collusion.

The undersigned agrees that upon receipt of the Notice of Award from the City of Casa Grande he will execute the contract documents and furnish the required bonds and certificates of insurance.

Respectfully submitted,

By _____
Officer & Title

ATTEST:

Officer and Title

(Give CONTRACTOR's full address)

Witness: if CONTRACTOR is an individual

* _____

The CONTRACTOR hereby acknowledges receipt of and agrees his proposal is based on the proceeding Addenda:

*Addresses of corporate officers or partners if different than business address.

Contractor

By _____

License No. _____

Classification _____

CERTIFICATION OF BID

FOR

AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2

CONTRACTOR hereby certifies by signing and submitting this bid, which includes Notice of Bids, Information to CONTRACTOR, Bid Specifications, Bid Form, Issued Addenda and Certification of Bid that they have read and fully understand, and will comply with said invitation for bids.

Corporate Name

Address

City, State, and Zip

Type of Entity

State of Incorporation

Phone Number

Casa Grande Business
License Number (if Applicable)

Signature of Authorized Officer

Print Name of Authorized Officer

Title of Authorized Signatory

SURETY BOND

KNOW ALL MEN BY THESE PRESENTS:

That _____ we,
_____, as
Principal, (hereinafter called the Principal), and the _____
_____, a corporation
duly organized under the laws of the State of _____, as Surety, (hereinafter called the
Surety), are held and firmly bound unto the City of Casa Grande as Obligee, in the sum of Ten
Percent (10%) of the total amount of the bid of Principal, submitted by him to the City of Casa
Grande for the work described below, for the payment of which sum, well and truly to be made, the
said Principal and the said Surety, bind ourselves, our heirs, executors, and administrators, successors
and assigns, jointly and severally, firmly by these presents, and in conformance with A.R.S.

WHEREAS, the said Principal is herewith submitting its proposal for the
AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2
NOW, THEREFORE, if the City of Casa Grande shall accept the proposal and give such Bonds and
Certificates of Insurance as specified in the Standard Specifications with good and sufficient Surety
for the faithful performance of such contract and for the prompt payment of labor and material
furnished in the prosecution thereof, or in the event of the failure of the Principal to enter into such
contract and give such Bond and Certificate of Insurance, if the Principal shall pay to the City of Casa
Grande the sum of money set forth above as liquidated damages for failure of the Principal to enter
into the contract, then this obligation shall be null and void, otherwise to remain in full force and
effect.

Signed and sealed this _____ day of _____, A.D., 2014

Principal

Title

Witness:

Surety

Title

Witness: _____

AFFIDAVIT OF NON-COLLUSION

STATE OF ARIZONA)
COUNTY OF _____) ss

(NAME)

BEING FIRST DULY SWORN, DEPOSES AND SAYS:

That he/she is _____
(TITLE)
of _____
(NAME OF BUSINESS)

That pursuant to Section 44-1404 of the Arizona Revised Statutes, he certifies as follows:

That neither he/she nor anyone associated with the said

(NAME OF BUSINESS)

has, directly or indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with the Project:

AIRPORT HANGARS REHABILITATION - HANGARS #1 & #2

(NAME)

(TITLE)

(NAME OF BUSINESS)

Subscribed and sworn to before me this _____ day of _____,
2014.

(NOTARY PUBLIC)

My Commission Expires:

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-

PERFORMANCE BOND

STATUTORY PERFORMANCE BOND PURSUANT TO TITLE 34,
CHAPTER 2, ARTICLE 2, OF THE ARIZONA REVISED STATUTES
(Penalty of this bond must be 100% of the contract amount)

KNOW ALL MEN BY THESE PREMISES:

That, _____ (hereinafter called the Principal), as
Principal, _____ and
_____, a
corporation organized and existing under the laws of the State of _____, with its
principal office in the City of _____, (hereinafter called the Surety), as
Surety, are held and firmly bound unto the City of Casa Grande, State of Arizona (hereinafter call the
Obligee) _____ in _____ the _____ amount _____ of
_____ Dollars
(\$_____), for the payment whereof, the said Principal and Surety bind themselves, and
their heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these
presents.

WHEREAS, the Principal intends to enter into a certain written contract with the Obligee for the
construction of the "City of Casa Grande **AIRPORT HANGARS REHABILITATION - HANGARS #1
& #2**" which contract is hereby referred to and made a part hereof as fully and to the same extent as
if copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said
Principal is awarded said contract and shall faithfully perform and fulfill all the undertakings,
covenants, terms, conditions and agreements of said contract during the original term of said contract
and any extension thereof, with or without notice to the Surety, and during the life of any guaranty
required under the contract, and shall also perform and fulfill all the undertakings, covenants, terms,
conditions, and agreements of any and all duly authorized modifications of said contract that may
hereafter be made, notice of which modifications to the Surety being hereby waived; then the above
obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of Title 34,
Chapter 2, Article 2 of the Arizona Revised Statutes, and all liabilities on this bond shall be
determined in accordance with the provisions of said Title, Chapter and Article, to the extent as if it
were copied at length herein.

The prevailing party in a suit on this bond shall be entitled to such reasonable attorney's fees as may be fixed by a judge of the court.

WITNESS our hands this _____ day of _____, 2014

PRINCIPAL SEAL

AGENCY OF RECORD

BY

SURETY SEAL

AGENCY ADDRESS

BY

LABOR AND MATERIALS BOND

STATUTORY PAYMENT BOND PURSUANT TO TITLE 34,
CHAPTER 2, ARTICLE 2 OF THE ARIZONA REVISED STATUTES
(Penalty of this bond must be 100% of the contract amount)

KNOW ALL MEN BY THESE PREMISES:

That, _____ (hereinafter called the Principal), and

a corporation organized and existing under the laws of the State of _____, with its
principal office in the City of _____, (hereinafter called the Surety), as
Surety, are held and firmly bound unto the City of Casa Grande, State of Arizona (hereinafter call the
Obligee) in the amount of _____
Dollars (\$_____), for the payment whereof, the said Principal and Surety bind
themselves and their heirs, administrators, executors, successors and assigns, jointly and severally,
firmly by these presents.

WHEREAS, the Principal intends to enter into a certain written contract with the Obligee for
the construction of the "City of Casa Grande **AIRPORT HANGARS REHABILITATION - HANGARS #1 &
#2**" which contract is hereby referred to and made a part hereof as fully and to the same extent as if
copied at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said
Principal is awarded said contract and shall promptly pay all monies due to all persons supplying
labor or materials to him or his subcontractors in the prosecution of the work provided for in said
contract, then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED, HOWEVER, that this bond having been required of the said Principal in order
to comply with the provisions of Title 34, Chapter 2, Article 2 of the Arizona Revised Statutes, all
rights and remedies on this bond shall inure solely to such persons and shall be determined in
accordance with the provisions, conditions and limitations of said Title, Chapter and Article, to the
same extent as if they were copies at length herein.

The prevailing party in a suit on this bond shall be entitled to such reasonable attorney's fees as may
be fixed by a judge of the court.

WITNESS our hands this _____ day of _____, 2014.

PRINCIPAL SEAL

AGENCY OF RECORD

BY

SURETY SEAL

AGENCY ADDRESS

BY

SAMPLE AGREEMENT FORM

Contract No. XXXXX

TITLE

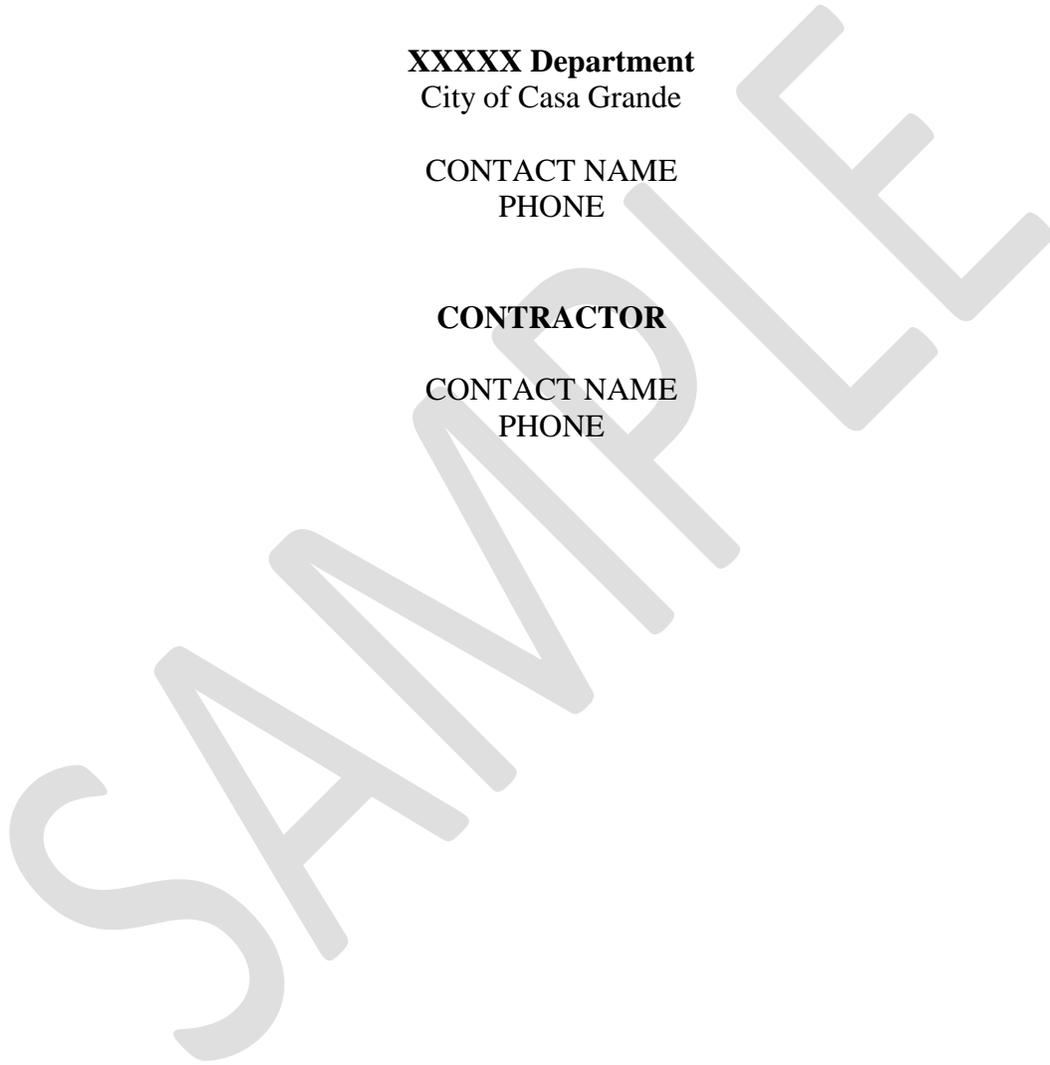
Project No. XXXXXXXXX

XXXXX Department
City of Casa Grande

CONTACT NAME
PHONE

CONTRACTOR

CONTACT NAME
PHONE



THIS CONTRACT made and entered into by and between the **City of Casa Grande**, a Municipal Corporation (the “City”) and _____, (the “Contractor”).

The City and the Contractor for the consideration named agree as follows:

SECTION 1. The complete Contract includes all of the Contract Documents as if set forth in full herein. The Contract and all Contract Change Orders issued after the execution of the Contract, Addendum No(s) _____ issued prior to the opening of the bids, the Special Provisions, the Project Plans (Exhibit(s) _____), the Standard Plans, the Standard Specifications, the Waterworks Standards, Reference Specifications, the Bidder’s Proposal, the Notice Inviting Bids, the Performance Bond and the Payment Bond all of which are essential parts of this Contract as defined in Attachment 1. In the event of any conflict in these provisions, the terms of the Contract Documents shall control, each over the other, in the order provided.

SECTION 2. The Contractor shall furnish all materials, except as otherwise provided in the Plans or Specifications, and will perform all the work for the

PROJECT NO.

PROJECT NAME: _____

necessary to complete in a good, workmanlike, and substantial manner the work in accordance with the Contract Documents for this Project. The Contract documents are specifically referred to and made a part hereof this Contract.

SECTION 3. The City will pay the Contractor the amount of _____ (Dollars) (\$ _____) for a base contract, subject to change of materials and work orders. The Contractor agrees to receive and accept the prices set forth in the Bid Schedule as full compensation for the work required under the bid items awarded by the City subject to additions and/or reductions of the quantities of the various bid items at the unit prices bid for furnishing all labor and materials and for doing all the work contemplated and embraced under this Contract. The Contractor further agrees that:

- a. The City will not pay any claim submitted to the City by the Contractor unless the claim is **SUBMITTED IN WRITING** to the City and **APPROVED BY THE CITY IN WRITING BEFORE** any such work is started.
- b. The City will not pay for any cost increases for labor and materials outside the original prices as set forth in the Bid Schedule unless **SUBMITTED IN WRITING** to the City and **AGREED TO IN WRITING** by the City **IN ADVANCE**.
- c. In the event of unforeseen difficulties or obstructions arising out of the nature of the work to be performed are encountered by the Contractor, the Contractor **SHALL NOT MOVE FORWARD** with any additional work until that work is **APPROVED IN WRITING** by the City’s Project Manager.
- d. The Contractor shall be responsible for all expenses incurred by or in consequence of the suspension and/or discontinuance of work **CAUSED BY** Contractor.

- e. The Contractor shall faithfully complete the work in the manner and in accordance with the Contract Documents and the requirements of the City's Project Manager under them.
- f. Any additional charges incurred without **WRITTEN CONSENT** of the City shall be considered incidental costs to the Contract with **NO COST** to the City.

SECTION 4. TIME IS OF THE ESSENCE for this Contract. The Contractor agrees to commence work pursuant to this Contract within _____ **calendar days** after the date of authorization specified in the Notice to Proceed and to diligently prosecute the same, day to day, to completion within _____ **calendar days** after the date provided except as adjusted by subsequent Contract Change Order(s). All additional work, when authorized by executed Change Order(s) shall be compensated for by a fee as mutually agreed upon by the City and Contractor.

When a contractor submits a request for a date extension for which work must be completed in a contract, a written Contract Change Order shall be initiated outlining the reason for applying for the extension and the drop-dead date the work **will** be completed. If the extension is agreed to and signed by the City and the Contractor, it binds the Contractor to complete the work by the extended date designated in the amendment unless the delay in completion of the work by the Contractor results from an unforeseeable cause beyond the control and without the fault or negligence of the Contractor. It is agreed the City's only liability for delay from any cause shall be limited to granting a time extension to the Contractor. There is no other obligation, expressed or implied, on part of the City to the Contractor for delay from any cause.

SECTION 5. If the work to be performed by Contractor for this Contract is not timely completed, the Contractor shall pay to the City \$ _____ as liquidated damages for each day the work remains incomplete after the scheduled completion date. The scheduled completion date for determining liability for liquidated damages shall be _____ **consecutive days** from the effective date of City's Notice to Proceed to the Contractor.

For the purpose of determining applicability of liquidated damages, completion time shall be extended only if delay in completion of the work by the Contractor results from an unforeseeable cause beyond the control and without the fault or negligence of the Contractor per Section 6.

SECTION 6. Force Majeure: Notwithstanding any other term, condition, or provision hereof to the contrary, in the event any party hereto is precluded from satisfying or fulfilling any duty or obligation imposed upon such party by the terms hereof due to labor strikes, nationwide material shortages, war, civil disturbances, unusual weather conditions, natural disasters, acts of God, or other events beyond the control of such party, the time period provided herein for the performance by such party of such duty or obligation shall be extended for a period equal to the delay occasioned by such events and must be agreed to **IN WRITING BY BOTH PARTIES.**

SECTION 7 The Contractor agrees to indemnify, defend, and save harmless the City, its Mayor and Council, appointed boards and commissions, officials, officers, and employees, individually and collectively from all losses, claims, suits, demands, expenses, subrogations, attorney's fees, or actions of any kind and nature arising out of the Contractor's negligence or any subcontractor employed by the Contractor including bodily injury and death, damages to any property or any other losses, claims, suits, demands, and/or expenses, arising or alleged to have arisen out of the work performed, except any injury or damages arising out of the sole negligence of the City, its officers, agents or employees. The amount and type of insurance coverage requirements set forth in Section 8 will in no way be construed as limiting the scope of indemnity in this paragraph.

SECTION 8. INSURANCE.

8.1 Contractor Liability Insurance. Upon signing of the Agreement and so long as it shall remain in effect, contractor, at its cost and expense, shall purchase and maintain the insurance described in this subsection 14. The insurance shall be purchased and maintained in companies duly licensed or otherwise approved by the State of Arizona, with forms acceptable to the City of Casa Grande, and shall be primary with no right of contribution. The contractor's insurer shall have a minimum A.M. Best's rating of A-VIII. Use of alternative insurers requires prior approval for the City of Casa Grande.

The insurance coverages to be purchased and maintained are:

8.1.1 Workers' Compensation. Contractor shall provide workers' compensation insurance as required by state and federal laws having jurisdiction over Contractor's employees engaged in the performance of the Services within this Agreement.

8.1.2 General Liability. Contractor shall maintain a Commercial General Liability (Occurrence) policy that includes coverage for premises and operations, products and completed operations, contractual liability, broad form property damage, and personal injury liability. The policy shall have limits of not less than:

- \$1,000,000 for each occurrence of bodily injury and property damage; and
- \$1,000,000 for personal injury;

8.1.3 Automobile Liability. Contractor shall maintain an Automobile Liability policy with a combined single limit for bodily injury and property damage of not less than \$1,000,000 for each accident. The policy shall cover all owned, hired, and non-owned automobiles used in connection with the Agreement for the performance of Contractor's services.

8.1.4 Property Insurance. A policy or policies of fire and extended coverage property damage insurance covering the full insurable value of all tools and equipment used by contractor from time to time on the lands of City of Casa Grande pursuant to the Agreement, including mobile equipment. Contractor shall also require its agents, contractors, licensees and others performing the obligations, or exercising the rights, of Contractor under the Agreement to carry such property damage insurance. Such policy or policies shall cover the full insurable value of such tools and equipment.

8.1.5 Adjustment of Liability Limits. If the initial term of the Agreement shall exceed ten years or if the aggregate term of the Agreement, including any extension or renewal terms agreed to by the parties or provided for in the Agreement shall exceed ten years, on each tenth anniversary of the date of the Agreement, the liability limits provided for in sections 8.1.2 and 8.1.3 shall be increased by an amount proportional to the increase in the US consumer price index occurring since the date of the Agreement or the date of the last such increase as appropriate.

8.1.6 Professional Liability. The Contractor retained by the City to provide the engineering services required by the Agreement will maintain Professional Liability insurance covering errors and omissions arising out of the Services performed by the Contractor or any person employed by him, with an unimpaired limit of not less than \$1,000,000 each claim and \$2,000,000 all claims, or 10% for the construction budget, whichever is larger. In the event the insurance policy is written on a

“claims made” basis, coverage shall extend for two years past completion and acceptance of Services as evidenced by annual Certificates of Insurance.

8.2 Insurance Certificate. Contractor shall not exercise any of its rights under the Agreement until it delivers to City of Casa Grande's designated recipient certificates from contractor's insurers showing that the coverage required above has been obtained.

8.2.1 The insurance certificates must show City of Casa Grande, its subsidiaries, affiliates directors, officers, and employees as additional insured parties in respect of all liability coverage except workers' compensation. The policy shall provide and the certificate shall reflect that the insurance afforded applies separately to each insured against whom claim is made or suit is brought except with respect to the limits of the company's liability.

8.2.2 The insurance certificate shall provide on its face that the policies it represents will not be terminated, amended, or allowed to expire without 30 days prior written notice to City of Casa Grande.

8.2.3 Failure of City of Casa Grande to demand the insurance certificate or other evidence of full compliance with these insurance requirements or failure of City of Casa Grande to identify a deficiency from any certificate provided to it shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

8.3 Severability of Interests. The policies referenced in 8.1.2 and 8.1.3 shall contain a severability of interests clause, generally providing, "the insurance afforded applies separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the company's insurance."

8.4 Waiver of Subrogation. Contractor hereby waives any and all rights that it might have against City of Casa Grande, its employees, officers, and directors, to recover all or part of any loss or damage insured or insurable by the insurance policies carried or required to be carried by it pursuant to the Contract Documents. Contractor shall require each of its agents, contractors, licensees and others performing the obligations, or exercising the rights, of Contractor under the Agreement to provide a similar waiver for City of Casa Grande's benefit.

8.5 Deductibles. Contractor may purchase the required insurance policies with deductibles which are reasonable in light of the contractor's financial condition; provided that any loss not covered due to the deductible will be paid by Contractor. Contractor shall also require its agents, contractors, licensees and others performing the obligations, or exercising the rights, of contractor under the Agreement to carry such property damage insurance. Such policy or policies shall cover the full insurable value of such tools and equipment.

SECTION 9. This Contract may be terminated at any time by mutual written consent, or by the City, with or without cause, upon giving thirty (30) days written notice. If this Contract is terminated, the City shall be liable only for payment for services rendered and accepted by the City before the effective date of termination.

The City reserves the right to terminate in whole or any part of this Contract due to the failure of the Contractor to carry out any term or condition of the Contract. The City will issue a written notice of default to the Contractor for failing to perform the stipulations, conditions or services/specifications

required in this Contract. The Contractor shall have 5 days from receipt of the notice to rectify the failure or establish a plan for remedy. Contractor shall provide documentation of the remedy or proposed plan for approval by the City.

The City may terminate this Contract for cause if:

- A. In the opinion of the City, the Contractor attempts to impose personnel, materials or services of an unacceptable quality;
- B. In the opinion of the City, the Contractor fails to furnish the required services and/or product within the time stipulated in the Contract;
- C. In the opinion of the City, the Contractor fails to make progress in the performance of the requirements of the Contract;
- D. The Contractor gives the City a positive indication that the Contractor will not or cannot perform to the requirements of the Contract.

In the event the Contractor has failed to perform any substantial obligation to be performed by the Contractor under this Agreement and said failure has not been cured within the times set forth in this Agreement, then the City may, upon written notice, withhold all monies due and payable to Contractor, without penalty, until such failure to perform is cured or otherwise adjudicated.

If funds that are appropriated or allocated for the payment of obligations under this Contract are not allocated by the City and available for the continued purchase of the services and/or materials provided under this Contract, this Contract may be terminated by the City at the end of the period for which funds are available. The City will notify the Contractor in the event that continued service will or may be affected by non-appropriation. No penalty shall accrue to the City in the event that this provision is exercised, and the City shall not be obligated or liable for any future payments due or for any damages as a result of termination under this paragraph.

Upon Notice of Termination the Contractor shall appraise the work the Contractor has completed and submit this appraisal to the City for evaluation.

The Contractor shall receive as compensation for services performed through the date of such termination, a fee for the percentage of work actually completed. This fee shall be a percentage of the Contractor fee described in this Contract and shall be in the amount mutually agreed to between the Contractor and the City. The City shall make this final payment within sixty (60) days after the Contractor has delivered the last of the partially completed items or service.

Notice required under this section shall be in writing and shall be served by certified mail upon the other party. When served by certified mail, services shall be conclusively deemed made five (5) days after posting thereof in the United States mail, postage prepaid.

SECTION 10. Any written commitment received from the Contractor concerning this Agreement shall be binding upon the Contractor, unless otherwise specifically provided herein with reference to this paragraph. Failure of the Contractor to materially fulfill such a commitment shall result in a breach of this Contract. A commitment includes, but is not limited to any representation made prior to execution of this Agreement, whether or not incorporated elsewhere herein by reference, as to

performance of services or equipment, prices or options for future acquisition to remain in effect for a fixed period, or warranties.

SECTION 11. The Contractor agrees that any inspection by the City Representative or by other agents or employees of the City of the work performed is for the purpose of ensuring the technical competence of the work and adherence to other contractual provisions. Inspections are not for the purpose of safeguarding workers on the job, which is the sole responsibility of the Contractor.

The Contractor warrants that he/she is fully familiar with all the safety requirements of the Occupational Safety and Health Act as promulgated by the Federal Government and as implemented by the State of Arizona, and that he/she will be solely responsible for implementing and enforcing the same at all times.

SECTION 12. The Contractor agrees to accomplish the work with a minimum of traffic interruption. If it becomes necessary to close any traffic lanes on any street within the City, permission must first be obtained from the City Engineer's Office. Permission shall be requested at least 48 hours in advance for residential streets and 72 hours in advance for arterial streets. The Contractor shall furnish and place all detour signs and any other warning signs in accordance with the SPECIAL PROVISIONS.

SECTION 13. All writings, programs, data, public records, or other materials prepared by the Contractor and/or its Contractors or subcontractors, in connection with the performance of this Agreement shall be the sole and absolute property of the City.

SECTION 14. In the event that any litigation should arise concerning the construction or interpretation of any of the terms of this Agreement, the venue of such action of litigation shall be in the courts of the State of Arizona in and for the County of Pinal. This Agreement shall be governed by the laws of the State of Arizona. Should the City bring any legal or equitable action for the purpose of protecting or enforcing its rights under this Contract, the City shall recover, in addition to all other relief, its reasonable attorney's fees and court costs to be fixed by the court.

SECTION 15. It is agreed that the _____ or his/her designee is authorized to execute Contract Change Order(s) necessary to the prosecution of the work, all in accordance with the Standard Specifications.

SECTION 16. The Contractor agrees that he/she will not proceed with any extra work unless he/she has been authorized in writing to do so by the _____ or his/her designee prior to the commencement of any extra work.

SECTION 17. The Parties do for themselves, their heirs, executors, administrators, successors and assigns agree to the full performance of all the provisions herein contained. Contractor may not, either voluntarily or by action of law, assign any obligation assumed by the Contractor without prior written consent of the City.

SECTION 18. No portion of this contract may be assigned or subcontracted to any other individual, firm, or entity without the express and prior written approval of the Contracting Officer. It will be the responsibility of the Contractor to ensure that any and all subcontractors comply with the terms and conditions of this agreement and that City of Casa Grande is named as express third-party beneficiary of such subcontracts with full rights as such.

SECTION 19. The Contractor shall cause the Performance Bond and Payment Bond to remain in full force and effect through the warranty and guarantee period. By my signature hereunder, as Contractor, I agree to keep the Performance Bond and Payment Bond or cashier's check in equivalent of the full Performance Bond and Payment Bond in full force and effect through said period. The cashier's check shall serve the same purposes and fully cover the requirements of a Performance Bond and a Payment Bond.

SECTION 20. By my signature hereunder, as Contractor, I certify that I will comply with all provisions of the City of Casa Grande Project No. _____.

SECTION 21. This contract may be subject to review by any federal or state auditor. The City or its designee shall have the right to review and monitor the financial and service components of this program by whatever means are deemed expedient by the City. Such review may occur with or without notice, and may include, but is not limited to, on site inspection by City Agents or employees, inspection of all records or other materials which the City deems pertinent to the Agreement and its performance, and any and all communications with or evaluations by service recipients under this Agreement. The Contractor shall preserve and maintain all financial records and records relating to the performance of work under this Agreement for five (5) years after contract termination in accordance with A.R.S. §35-214 and shall make them available for such review within the City of Casa Grande, State of Arizona, upon request.

SECTION 22. DISPUTES

22.1 General. Differences between the Contractor and the City, arising under and by virtue of the Contract Documents shall be brought to the attention of the City at the earliest possible time in order that such matters may be settled or other appropriate action promptly taken. Except for such objections as are made of record in the manner hereinafter specified and within the time limits stated, the records, orders, rulings, instructions and decisions of the Contracting Officer, shall be final and conclusive.

22.2 Notice of Potential Claims. The Contractor shall not be entitled to additional compensation which otherwise may be payable, or to extension of time for (1) any act or failure to act by the City, or (2) the happening of any event or occurrence, unless the Contractor has given the City a written Notice of Potential Claim within 10 days of the commencement of the act, failure, or event giving rise to the claim, and before final payment by the City. The written Notice of Potential Claim shall set forth the reasons for which the Contractor believes additional compensation or extension of time is due, the nature of the cost involved, and insofar as possible, the amount of the potential claim. Contractor shall keep full and complete daily records of the Work performed, labor and material used, and all costs and additional time claimed to be additional.

22.3 Detailed Claim. The Contractor shall not be entitled to claim any such additional compensation, or extension of time, unless within 30 days of the accomplishment of the portion of the work from which the claim arose, and before the final payment by the City, the Contractor has given the City a detailed written statement of each element of cost or other compensation requested and of all elements of additional time required, and copies of supporting documents evidencing the amount or the extension of time claimed to be due.

SECTION 23. By my signature hereunder, as Contractor, I agree that even if only one (1) Progress Payment is prosecuted by the City of Casa Grande for this Project, the City will retain ten percent (10%) of the Progress Payment amount. The ten percent (10%) retention will be discharged in accordance with the Standard Specifications.

SECTION 24. To the fullest extent permitted by law, the Contractor shall defend, indemnify and hold harmless the City, its agents, officers, officials, and employees from and against all claims, damages, losses, and expenses (including but not limited to attorney's fees, court costs, and the costs of appellate proceedings), relating to, arising out of, or alleged to have resulted from the negligent acts, errors, mistakes or omissions in the work, services, or professional services of the Contractor, its agents, employees, or any other person (not the City) for whose negligent acts, errors, mistakes or omissions in the work, services, or professional services the Contractor may be legally liable in the performance of this Contract. Contractor's duty to defend, hold harmless and indemnify the City, its agents, officers, officials, and employees from and against all claims, damages, losses, and expenses that are attributable to bodily injury, sickness, disease, death, or injury to, impairment, or destruction of any person or property, including loss or use resulting therefrom, caused by any negligent acts, errors, mistakes, omissions, work, services, or professional services in the performance of this Contract by Contractor or any employee of the Contractor, or any other person (not the City) for whose negligent acts, errors, mistakes, omissions, work, or services the Contractor may be legally liable. The amount and type of insurance coverage requirement set for the herein will in no way be construed as limiting the scope of the indemnity in this paragraph.

To the fullest extent permitted by law, the City agrees to indemnify and hold the Contractor harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) to the extent caused by the City's negligent acts, errors or omissions and those of his or her contractors, subcontractors or consultants or anyone for whom the City is legally liable, and arising from the project that is the subject of this Agreement. The Contractor is not obligated to indemnify the City in any manner whatsoever for the City's own negligence.

SECTION 25. By my signature hereunder, as Contractor, I agree that I am not an employee of the City, and that I am performing the duties as an Independent Contractor, supplying my own employees, and maintaining my own insurance and handling all of my own internal accounting. The City in no way controls, directs, or has any direct responsibility for the actions of the Contractor. The performance of all or part of this contract by the Contractor shall not operate to vest any employment rights whatsoever and shall not be deemed to guarantee any employment of the Contractor or any employee of the Contractor or any subcontractor or any employee of any subcontractor by the City at the present time or in the future.

By my signature hereunder, as Contractor, I understand and acknowledge that the City will not withhold federal or state income. Where required by state or federal law, the Contractor authorizes the City to make withholding for any taxes other than income taxes (i.e., Medicare). All compensation received by the Contractor will be reported to the Internal Revenue Service at the end of the calendar year in accordance with the applicable IRS regulations. It is the responsibility of the Contractor to make the necessary estimated tax payments throughout the year, if any, and the Contractor is solely liable for any tax obligation arising from the Contractor's performance of this Agreement. The Contractor hereby agrees to indemnify the City against any demand to pay taxes arising from the Contractor's failure to pay taxes on compensation earned pursuant to this Agreement.

The City will pay sales and use taxes imposed on goods or services acquired hereunder as required by law. The Contractor must pay all other taxes including, but not limited to, Business or Occupation Tax, taxes based on the Contractor's gross or net income, or personal property to which the City does not hold title.

By my signature hereunder, as Contractor, I agree that I shall be responsible for the compliance with the United States Immigration Reform and Control Act of 1986, and shall indemnify and hold harmless the City for any liability arising from failure of the Contractor to comply with this Act. This indemnification includes the costs of suit.

By my signature hereunder, as Contractor, I agree that I shall be responsible for compliance with the Americans with Disabilities Act of 1990 and shall indemnify and hold harmless the City for any liability arising from failure of the Contractor to comply with this act. This indemnification includes the costs of suit.

SECTION 26. By their signatures hereunder, as Contractor and City, the Parties agree to be bound by all applicable Federal and State regulations governing Equal Opportunity and Non-Discrimination.

SECTION 27. Pursuant to the requirements of Arizona Revised Statutes, Title 34, the City will require both of the following documents to be completed and submitted before the final payment is made and retainage is released.

1. A certification from the Prime Contractor that all bona fide project claims and bills from his/her subcontractors and suppliers have been paid, and that all his/her project claims against the City have been resolved (CONTRACTOR'S AFFIDAVIT REGARDING SETTLEMENT OF CLAIMS).
2. The consent of surety affidavit signed by an authorized representative of the surety (CONSENT OF SURETY TO FINAL PAYMENT AND FULL RELEASE OF CONTRACT RETAINAGE OR SUBSTITUTE SECURITIES).

The City of Casa Grande reserves the right to obtain from the Contractor "satisfactory receipts for all labor and material billed and waivers of liens from any and all persons holding claims against the work".

SECTION 28. This Contract is subject to the provisions of A.R.S. § 38-511 which provides in pertinent part that the state, its political subdivisions or any department of either may, within three years after its execution, cancel any contract, without penalty or further obligation, made by the state, its political subdivisions, or any of the departments or agencies of either if any person significantly involved in initiating, negotiating, securing, drafting or creating the Contract on behalf of the state, its political subdivisions or any of the departments or agencies of either is, at any time, while the Contract or any extension of the Contract is in effect, an employee or agent of any other party to the Contract in any capacity or a Contractor to any other party to the Contract with respect to the subject matter of the Contract.

SECTION 29. In accordance with A.R.S. §35-391, the Contractor hereby certifies that the Contractor does not have scrutinized business operations in Sudan. In accordance with A.R.S. §35-

393, the Contractor hereby certifies that the Contractor does not have scrutinized business operations in Iran.

SECTION 30. Contractor understands and acknowledges the applicability to it of the American with Disabilities Act, the Immigration Reform and Control Act of 1986, and the Drug Free Workplace Act of 1989.

SECTION 31. To the extent applicable under A.R.S. § 41-4401, the Contractor and its subcontractors warrant compliance with all federal immigration laws and regulations that relate to their employees and compliance with the E-verify requirements under A.R.S. § 23-214(A). The Contractor's or subcontractor's breach of the above-mentioned warranty shall be deemed a material breach of the Agreement and may result in the termination of the Agreement by City. The Contractor agrees to insert language similar to this paragraph in all contracts in which they engage with subcontractors on this project to ensure that those subcontractors are meeting the requirements of the above-mentioned statutes. City retains the legal right to randomly inspect the papers and records of the Contractor and its subcontractors who work on the Agreement to ensure that the Contractor and its subcontractors are complying with the above-mentioned warranty. The Contractor and its subcontractors warrant to keep the papers and records open for random inspection during normal business hours by City. The Contractor and its subcontractors shall cooperate with City's random inspections including granting City entry rights onto its property to perform the random inspections and waiving their respective rights to keep such papers and records confidential.

A breach of the Contractor Immigration Warranty shall constitute a material breach of this Contract and shall subject the Contractor to penalties up to and including termination of this Contract at the sole discretion of the City.

The City retains the legal right to inspect the papers of any Contractor or Subcontractors employee who works on this Contract to ensure that the Contractor or Subcontractor is complying with the Contractor Immigration Warranty. Contractor agrees to assist the City in regard to any such inspections.

Neither the Contractor nor any of Subcontractor shall be deemed to have materially breached the Contractor Immigration Warranty if the Contractor or Subcontractor establishes that it has complied with the employment verification provisions prescribed by sections 274A and 274B of the Federal Immigration and Nationality Act and the E-Verify requirements prescribed by A.R.S. §23-214, Subsection A.

The provisions of this Article must be included in any contract the Contractor enters into with any and all of its subcontractors who provide services under this Contract or any subcontract. "Services" are defined as furnishing labor, time or effort in the State of Arizona by a contractor or subcontractor. Services include construction or maintenance of any structure, building or transportation facility or improvement to real property.

SECTION 32. The Contractor, its employees, subcontractors, and their employees shall maintain the confidentiality of all information provided by the City or acquired by the Contractor in performance of this Agreement, except upon the prior written consent of the City Attorney, or an order entered by a court after having acquired jurisdiction over the City. Contractor shall immediately give to the City notice of any judicial proceeding seeking disclosure of such information. Contractor shall indemnify and hold harmless the City, its officials, agents, or employees from all loss or expense, including, but

not limited to settlements, judgments, setoffs, attorneys' fees and costs resulting from Contractor's breach of this provision.

SECTION 33. In the event of a public records request to the City for the Licensed Program or Licensed Documentation, the City shall promptly provide a copy of such request to Contractor so that it has at least 7 days from Contractor's receipt of such request in which to seek an order restraining the City from disclosing the Licensed Program and Documentation pursuant to such public records request. If Contractor does not obtain a restraining order within such period of time, the City may disclose the Licensed Program and Licensed Documentation pursuant to such public request as the City deems appropriate to comply with Arizona's Public Records Laws.

SECTION 34. Except as set forth elsewhere in the Agreement, for all purposes under this Agreement, except service of process, notice shall be given by the Contractor to the department head of the department for whom services are rendered and to the City Attorney's Office. Notice may be given by delivery or by depositing in the U.S. Mail, first class, postage prepaid.

SECTION 35. The provisions of paragraphs 5, 8, 9, 10, 13, 14, 21, 22, 24, 25, 26, 29, 31, 32, 33, and 34 and the provisions of any non-collusion affidavit, shall survive, notwithstanding the termination or invalidity of this Agreement for any reason.

SECTION 36. This is the entire Contract between the parties. If any portion(s) of this Contract is (are) later found to be invalid or unenforceable, such portion(s) shall be null and void and without any effect on the rest of the Contract which shall continue in full force and effect.

SECTION 37. This Agreement shall be subject to all laws, rules, and regulations of the United States of America, the State of Arizona, and the City of Casa Grande.

SECTION 38. THIS CONTRACT SHALL BE VALID UPON EXECUTION BY THE PARTIES.

Dated this the _____ day of _____, 20____.

City of Casa Grande, an Arizona _____
municipal corporation.

By: _____
James V. Thompson,
City Manager

By: _____

Attest:

Remilie S. Miller, City Clerk MMC

**ATTACHMENT 1
DEFINITION OF TERMS**

Addendum	Written or graphic instrument(s) issued in writing, after advertisement, but prior to the opening of the Bids, which alter, change, clarify, correct, modify or revise the Contract Documents.
Bid	The offer of the bidder, submitted on the prescribed form(s) to perform the Work and/or furnish material(s) and/or furnish labor and/or furnish equipment at the price(s) quoted.
Bidder's Proposal:	The offer of a bidder, on the prescribed form, to perform the work and to furnish the labor and materials at the prices quoted.
Bidders Bond	The security furnished with a bid to guarantee that the bidder shall enter into the contract if the bid is accepted.
Change Order	A written order, issued and signed by the City Department Director or designee to the Contractor, directing addition(s), deletion(s) or revision(s) in the Work, adjustment in Contract Price(s) or Contract Time, said Change Order(s) is/are issued after the execution of the Contract, all as incidental to the prosecution of the Work as advertised.
Contract	The written agreement between the City and the contractor setting forth the obligations of the parties thereunder including, but not limited to, the performance of the work, the furnishing of labor and materials and the basis of payment.
Liquidated Damages	The monetary damages amount that the parties to the Contract shall be paid to the City by the Contractor for each day the work remains incomplete after the scheduled completion date. The Liquidated Damages amount will be set in accordance except as otherwise required in the project specifications, shall be in accordance with all applicable Uniform Standard Details for Public Works Construction and the Uniform Standard Specifications for Public Works Construction as published by Maricopa Association of Governments (MAG), latest edition, et seq.
Notice Inviting Bids	The public announcement, as required by law, inviting Bids for work to be performed and/or materials to be furnished and/or labor to be furnished and/or equipment to be furnished.
Payment Bond	The security provided by the contractor solely for the protection of claimants supplying labor and materials to the contractor or to subcontractors of the contractor.
Performance Bond	The security provided by the contractor solely for the protection of the contracting agency and conditioned upon the faithful performance of the contract in accordance with the plans, specifications and conditions thereof.
Project Manager	The City designee in direct charge of the Project and responsible for the completion of the project according to the provisions of the Contract.
Project Plans	Specific details and dimensions peculiar to the work which are supplemented by the standard details insofar as they may apply.
Reference Specifications	Any specifications referred to in the Contract Documents other than Standard requirements peculiar to an individual project.
Special Provisions	Additions and revisions to the Standard Specifications covering conditions and Specifications, including, but not limited to: bulletins, standards, rules, methods of analysis or tests, codes, other agency specifications, engineering societies, or industrial associations referred to in the Contract Documents. These refer to the latest edition, including amendments in effect and published at the time of advertising the Project or issuing the permit, unless otherwise specifically referred to by edition, volume or date.

Standard Plans The latest edition of the Uniform Standard Details for Public Works Construction and the Uniform Standard Specifications for Public Works Construction as published by Maricopa Association of Governments (MAG) including all SUPPLEMENTAL AMENDMENTS, as prepared by a joint effort of the Departments of Transportation of the Maricopa Association of Governments (MAG) where appropriate.

Standard Specifications The latest edition of the Uniform Standard Details for Public Works Construction and the Uniform Standard Specifications for Public Works Construction as published by Maricopa Association of Governments (MAG) including all SUPPLEMENTAL AMENDMENTS, as prepared by a joint effort of the Departments of Transportation of the Maricopa Association of Governments (MAG) where appropriate

Waterworks Standards The latest edition of the Uniform Standard Details for Public Works Construction and the Uniform Standard Specifications for Public Works Construction as published by Maricopa Association of Governments (MAG) including all SUPPLEMENTAL AMENDMENTS, as prepared by a joint effort of the Departments of Transportation of the Maricopa Association of Governments (MAG) where appropriate, unless modified within the Plans and/or the Standard Notes and Detail Plan Sheet for the City of Casa Grande and Arizona Water Company Details.

SAMPLE

END OF SECTION

EXHIBITS

Fig 1 – Site Plan and Layouts

Fig 2 – Asbestos / Lead Based Paint Report

CASA GRANDE MUNICIPAL AIRPORT AIRPORT HANGAR REHABILITATIONS

3225 NORTH LEAR AVENUE CASA GRANDE, ARIZONA 85122

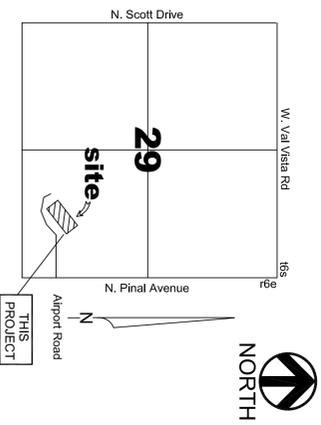
(HANGAR #1 & HANGAR #2 REPAIRS)

NOTE: BIDDERS IS INSTRUCTED TO REVIEW ALL DRAWINGS, SPECIFICATIONS, ETC. AS REFERENCED WITHIN THE SHEETS. NOTES MAY OCCUR ANYWHERE WITHIN THE DOCUMENTS.

ALL PRIME CONTRACTORS WHO SUBMIT SHOP DRAWINGS ON BEHALF OF THEIR SUBCONTRACTORS, LOWER TIER CONTRACTORS, SHALL REVIEW TO THE NOT APPROVED CONTRACTS, ETC. SHALL RETURN TO THE NOT APPROVED CONTRACTORS WITH COMPLETED SHOP DRAWINGS. SUPERVISORS, ANY SHOP DRAWINGS WILL BE RETURNED SPECIFICATIONS, ACCORDINGLY PARTIES POSSIBLY DELAYING AND MARKED BY REVIEWING PARTIES POSSIBLY DELAYING THE PROJECT

<h2 style="text-align: center;">PROFESSIONAL</h2> <p>AA/THOMPSON DESIGNERS, INC. 1237 S. VAL VISTA DRIVE MESA, ARIZONA 85204 PH: 480-802-2010 Contact: Bill Thompson (Ex:1) Matt Thompson (Ex:12)</p>	<h2 style="text-align: center;">LEGENDS</h2> <p>○ BASE BID NUMBERED NOTE ◇ ALTERNATE #1 ◊ ALTERNATE #2 □ ALTERNATE #3</p> <p>NUMBERED NOTES FOR INSTRUCTIONS INDICATED ON EACH SHEET</p>
<h2 style="text-align: center;">GENERAL NOTES</h2> <p>1.) CONTRACTOR TO FIELD VERIFY ALL DIMENSION PRIOR TO CONSTRUCTION. 2.) CONTRACTOR IS INSTRUCTED TO REVIEW ALL DRAWING SHEETS, NOTES, SPECIFICATIONS, ETC. AS REFERENCES TO HIS WORK MAY OCCUR ANYWHERE WITHIN THE DOCUMENTS</p>	<h2 style="text-align: center;">BUILDING SCOPE</h2> <p style="text-align: center; font-size: x-small;">SEE DRAWINGS AND SPECIFICATIONS</p>
<h2 style="text-align: center;">CONTACT INFORMATION</h2>	
<p>CITY PROJECT ENGINEER</p> <p style="font-size: x-small;">CITY PROJECT ENGINEER: Abdul Rashid, PE, CFM PH: 520-421-8625</p>	<p>OWNER REPRESENTATIVE</p> <p style="font-size: x-small;">CITY OF CASA GRANDE (MUNICIPAL AIRPORT) RICHARD WILKE AIRPORT MANAGER</p>
<p>SITE ADDRESS</p> <p style="text-align: center;">3225 N LEAR AVE, CASA GRANDE, AZ 85122 (520) 426-3616 HANGAR BLDG #1 / HANGAR BLDG #2</p>	

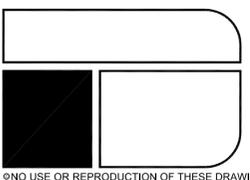
<h2 style="text-align: center;">INDEX OF DRAWINGS</h2> <p style="font-size: x-small;">CS1 - COVER SHEET C1 - TOPOGRAPHICAL SURVEY C2 - CROSS SECTIONS C3 - ORIGINAL SURVEY RESULTS C3.1 - ORIGINAL SURVEY RESULTS A1 - ARCHITECTURAL SITE PLAN A2 - OVERALL PLAN HANGAR #1 A3 - OVERALL PLAN HANGAR #2 A4 - SECTIONS & DETAILS A5 - COLUMN REPAIR PLAN & DETAILS</p>	<h2 style="text-align: center;">CODES</h2> <p style="font-size: x-small;">2003 INTERNATIONAL BUILDING CODE (I.B.C.) 2003 INTERNATIONAL PLUMBING CODE (I.P.C.) 2003 INTERNATIONAL MECHANICAL CODE (I.M.C.) 2003 INTERNATIONAL FIRE CODE (I.F.C.) 2003 INTERNATIONAL FUEL GAS CODE (I.F.G.C.) 2003 NATIONAL ELECTRICAL CODE (N.E.C.) 2003 ICC AMENDMENTS</p>
<h2 style="text-align: center;">VICINITY MAP</h2>	



NOTE: DO NOT SCALE DRAWINGS. USE DIMENSIONS OR FIELD MEASURE PRIOR TO ANY BUILDING OR CONSTRUCTION.

<h2 style="text-align: center;">STANDARD NOTES</h2> <p>1. STANDARD NOTES</p> <ol style="list-style-type: none"> 1. All public improvement construction within the public right-of-way and onsite shall be conducted in accordance with, and conform to, the latest edition of the uniform standard specifications for Public Works Construction and Uniform Standard Details for Public Works Construction. Both as published by the Maricopa Association of Governments (M.A.G.). 2. Inspection of work per M.A.G. 105.10: The Engineer shall be permitted to inspect all materials and each part or detail of the work at any time for the purpose of expediting and facilitating the progress of work. He shall be furnished with such information and assistance by the contractor, as is required to make a complete and detailed inspection. The City Engineer requires that the actual test result data sheet accompany all compaction test results submitted to the city's inspector. Pass/Fail statements are not acceptable without the attached data sheet. Failure to submit the test result data sheets will result in an incomplete submittal and the test will be rejected. 3. In the event of conflict between M.A.G. standard specifications and standard details and these plans, these plans shall prevail. 4. Contractor is to notify all public utilities at least two (2) working days prior to construction, for field locations of their respective facilities, by contacting the following: BLUE STAKE NUMBER: 1-800-762-5348. 5. Contractor shall coordinate and make arrangements for relocation of any utilities conflicting with the proposed construction of these plans, with the appropriate utility. 6. Removal and replacement of all trees, shrubs, vegetation, miscellaneous structures, debris, rubble and other deleterious materials within the limits of construction shall be at the contractor's expense. 7. All concrete sidewalks, driveways, aprons, cross-pans, valley gutters, curbs and gutters landscaping and irrigation that may be damaged during the course of constructions shall be removed and replaced by the contractor at the contractor's expense. 8. The contractor is responsible for complying with all necessary regulations and requests by the City and Pinal County regarding dust control. 9. Contractor must keep public areas clear of soil, mud, and debris at all times. 10. Grading Plan As-Built: As-graded certification of the on-site grading by the design engineer is required prior to final acceptance of any on-site grading or drainage improvements. Record drawing of the public improvements by the design engineer is required prior to final acceptance of the public improvements. As-built grading plans shall be prepared by the design engineer after grading is completed. These shall include but not be limited to, as-built elevations for finished pads, all rear property corners, retention basin bottoms, swales, berms and perimeter landscape assemblies, any and all deviations from the approved plans at the time of completion of mass grading. If any drywells have been installed, ADEQ drywell registration numbers must be made part of the As-Built Plans. 11. The contractor shall verify the locations, elevations and horizontal controls of all existing utilities at point of tie-in prior to commencing any new construction. Should any location, elevation or control differ from that shown on these plans, the contractor shall contact the owner's agent. 12. The contractor shall give 72 hours notice to the City Engineer prior to any construction activity within any right-of-way. 13. The City Engineer must approve all plan revisions in writing prior to construction of any changes to approved plans. 14. Upon commencement of work, traffic control devices for local aircraft operations shall be posted and maintained by the contractor until such time as work is completed. 15. All construction and test methods shall be in conformance with the City of Casa Grande and Maricopa Association of Governments (M.A.G.) uniform standards specifications and details for public works construction, latest edition. 16. Asphaltic concrete for patching shall conform to M.A.G. USSD section 710 mix specifications. 17. A copy of the City approved plans must be kept on-site at all times, during the course of construction. 18. In the event of any dispute between these plans and M.A.G. standard specifications, these approved plans shall prevail. 19. Protection of valley gutters, cross-pans and aprons during paving operations shall be the responsibility of the contractor and all damaged concrete shall be replaced prior to acceptance. 20. Tack seal shall be required between lifts, all vertical concrete surfaces prior to placement of asphalt. This requirement also applies to vertical asphaltic concrete surfaces and at all joints of new lifts. 21. All areas that are milled shall have minimum 2 coats of sealer per MAG Standards. 22. The contractor shall provide a final grade elevation as built plan and associated water test to demonstrate positive drain flow away from hangars. Contractor shall obtain the services of the surveying engineer of this project (480-899-5143) to establish fixed grade elevations and submit a plan identifying all final elevations. 	
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DATE: 07/30/2014
JOB NO.: A-1402



AAr/THOMPSON DESIGNERS, INC.
ARCHITECTS / ENGINEERS

1237 SOUTH VAL VISTA DRIVE • MESA, AZ 85204 • (480) 802-2010 • FAX 895-0956

NO USE OR REPRODUCTION OF THESE DRAWINGS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF AAr/THOMPSON DESIGNERS. ALL INTELLECTUAL PROPERTY RIGHTS OF THIS DESIGN SHALL REMAIN WITH AAr/THOMPSON DESIGNERS, INC.

Expires 09/30/2016

CASA GRANDE MUNICIPAL AIRPORT
3225 N. LEAR AVENUE
CASA GRANDE, ARIZONA

COVER SHEET

CS1 OF

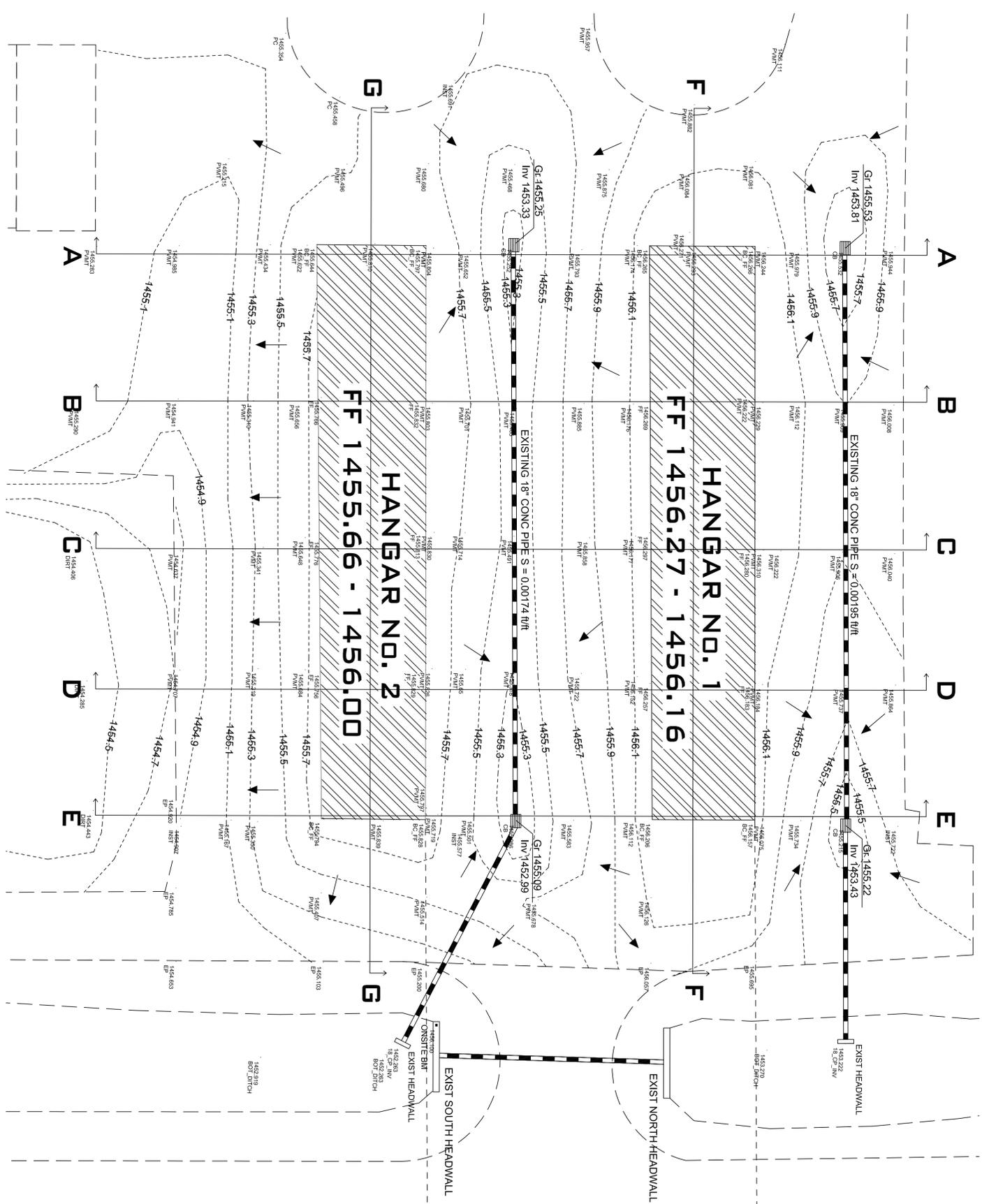
SITE ADDRESS
 3225 N. Lear Avenue
 Casa Grande, AZ 85122

TOPOGRAPHICAL SURVEY

CASA GRANDE AIRPORT

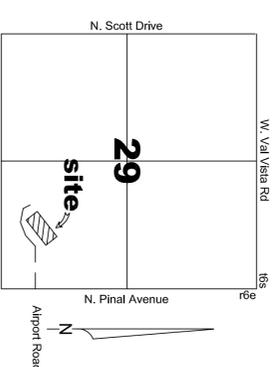
HANGARS 1 & 2

A portion of Sec 29, T6S, R6E Pinal County, Arizona



1 TOPOGRAPHICAL SURVEY
 Scale: 1"=20'-0"

BENCH MARK
 DESIGNATION - CGZ A 1984
 BRASS CAP FLUSH LOCATED AT
 32°57'03.50195"(N)
 111°46'24.5886"(W)
 ELEVATION 1445.70 NAVD88 ELEVATION



ONSITE BENCH MARK
 CENTER OF SQUARE BOX WEST SIDE OF
 SOUTH HEADWALL EAST OF HANGARS ELEV
 1456.10

FLOOD PLAIN STATEMENT

THIS PARCEL OF LAND LIES WITHIN FLOOD ZONE "AS X DESIGNATED BY THE FLOOD INSURANCE RATE MAP ZONE X HAS BEEN DETERMINED TO BE AN AREA THAT LIES BETWEEN THE 100 YEAR AND 500 YEAR FLOOD BOUNDARIES. COMMUNITY - PANEL NUMBER: 04021 C 1175 E EFFECTIVE DATE: December 4, 2007

LEGEND

- S EXISTING SEWER LINE
- W EXISTING WATER LINE
- E EXISTING ELECTRIC
- OHE EXISTING OVERHEAD ELECTRIC
- G EXISTING GAS LINE
- T EXISTING UNDERGROUND TELEPHONE
- C EXISTING CABLE LINE
- IRR EXISTING IRRIGATION
- EXISTING PROPERTY LINE
- EXISTING BLOCK WALL
- EXISTING BARBED WIRE FENCE
- EXISTING CHAINLINK FENCE
- EXISTING STORM DRAIN PIPE
- EXISTING SIGN
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING GUY WIRE
- EXISTING MANHOLE
- EXISTING WATER METER
- EXISTING AIR/VACUUM RELEASE VALVE
- EXISTING BLOWOFF VALVE
- EXISTING CONC STANDPIPE
- EXISTING TELEPHONE BOX
- EXISTING SENDER MANHOLE
- EXISTING ELECTRICAL BOX
- BOV PROPOSED BLOWOFF VALVE
- RED PROPOSED REDUCER
- TR PROPOSED THRUST BLOCK
- SECTION CORNER
- CENTER LINE
- RIGHT-OF-WAY LINE
- FOUND CORNER 1/2" Rebar
- SET CORNER 1/2" Rebar
- BRASS CAP FLUSH
- BC NI HH RECORDED
- (R) RECORDED
- (M) MEASURED
- (C) CALCULATED
- SB SETBACK
- P.U.L.E. PUBLIC UTILITY EASEMENT
- LAKE INGRESS & EGRESS EASEMENT
- ROW RIGHT OF WAY
- S.V.E. SIGHT VISIBILITY EASEMENT
- V VISITOR PARKING SPACE
- CP CAR POOL PARKING SPACE
- D DELIVERY PARKING
- HANDICAP PARKING DESIGNATION
- EXISTING CONTOUR
- NEW CONTOUR
- GRADE BREAK

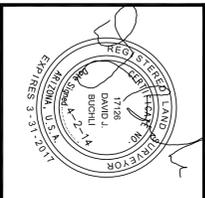
BUCHLI ENGINEERS, INC.
 CIVIL ENGINEERS
 email: davebuchli@gmail.com
 web: www.buchli.com
 8550 East Lake Road - San Tan Valley, Arizona 85143 Phone: 480-899-5143

As-Built Approval :
 Approval Recommended: _____ Date _____
 Public Works Engineering Inspector
 These As-built plans are approved: _____ Date _____
 City Engineer _____ Date _____

As-Built Certification Statement on plans as follows:
 AS-BUILT CERTIFICATION
 I HEREBY CERTIFY THAT THE "RECORD DRAWING"
 MEASUREMENTS AS SHOWN HEREON WERE MADE
 UNDER MY SUPERVISION OR AS NOTED AND ARE
 CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
 Registered Land Surveyor/ _____ Date _____
 Registered Civil Engineer

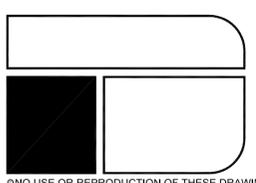
City of Casa Grande Approval for Construction:
 Approval Recommended: _____ Date _____
 Development Services Engineer
 These plans are approved for construction: _____ Date _____
 City Engineer _____ Date _____
 Expiration Date: _____
 The City Approves these Plans in Concept Only.
 The City accepts no Responsibility for Errors or Omissions.

CASA GRANDE MUNICIPAL AIRPORT
 3225 N. LEAR AVENUE
 CASA GRANDE, ARIZONA
 TOPOGRAPHICAL SURVEY



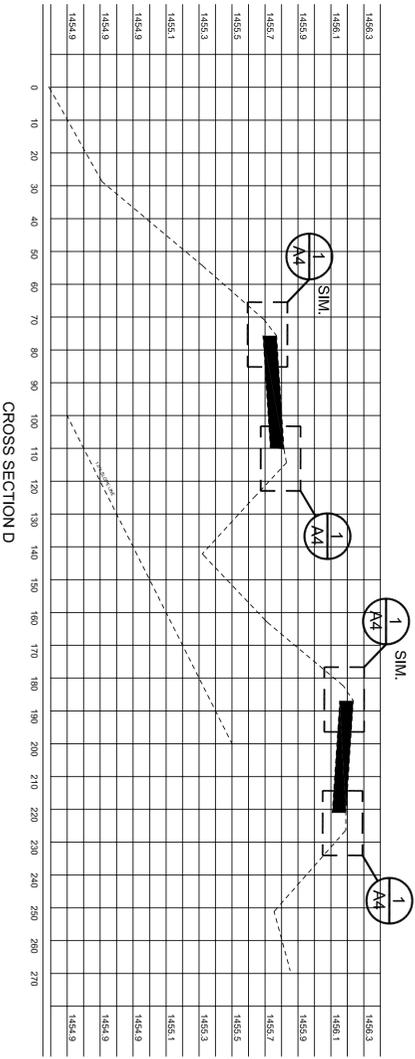
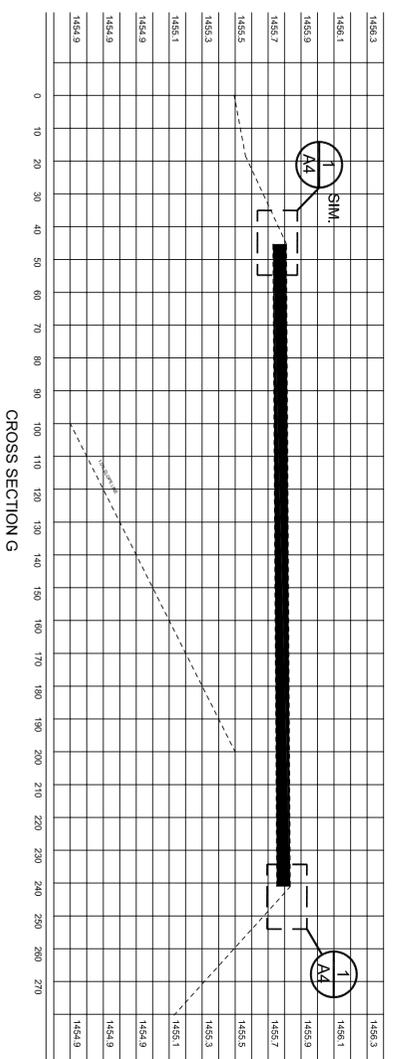
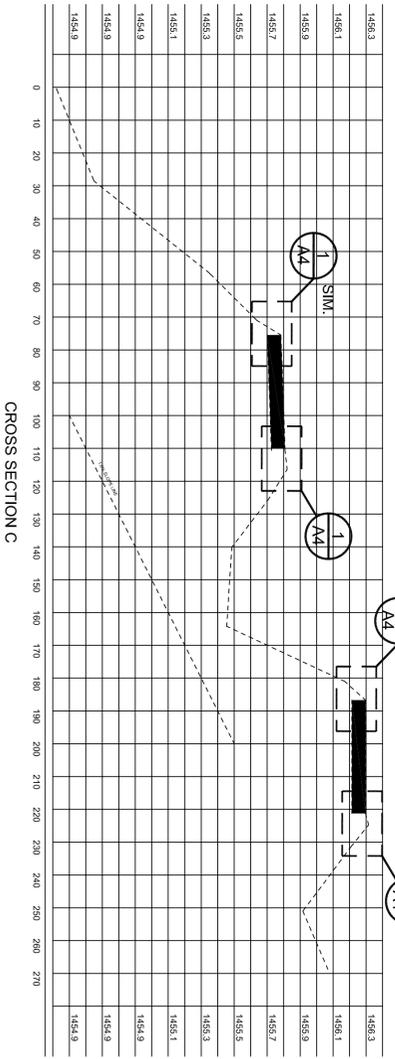
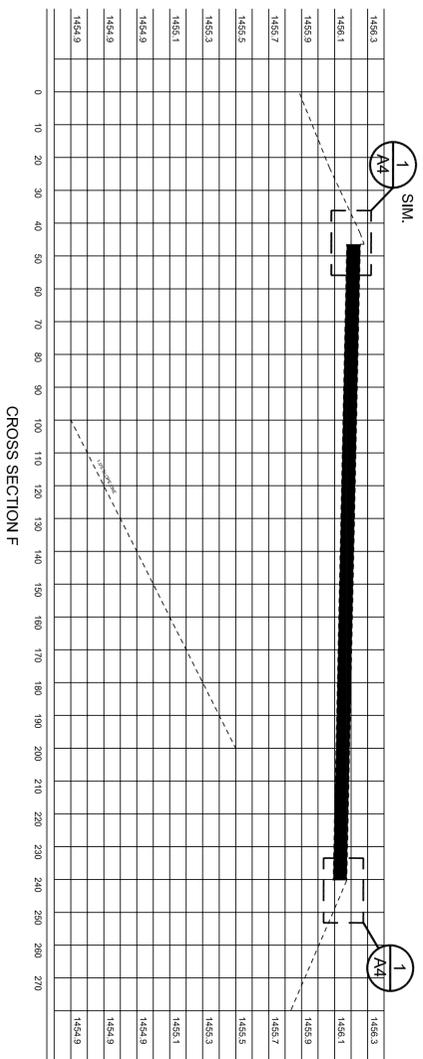
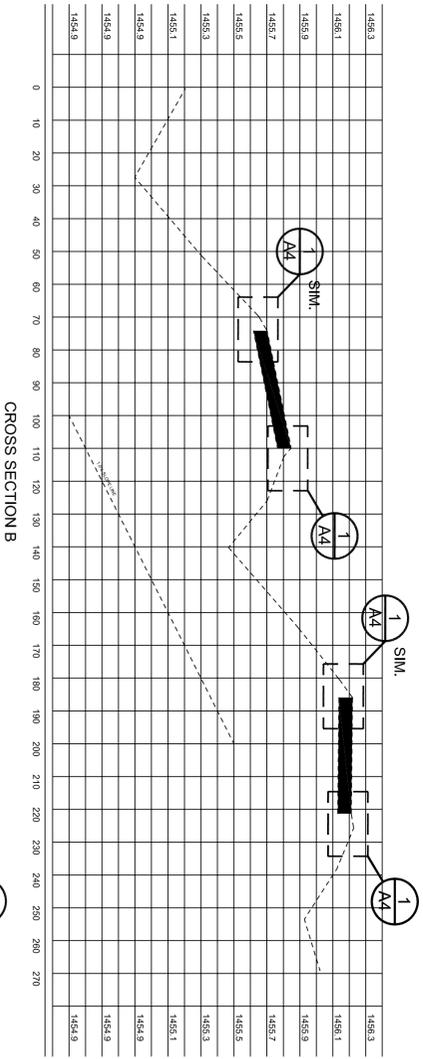
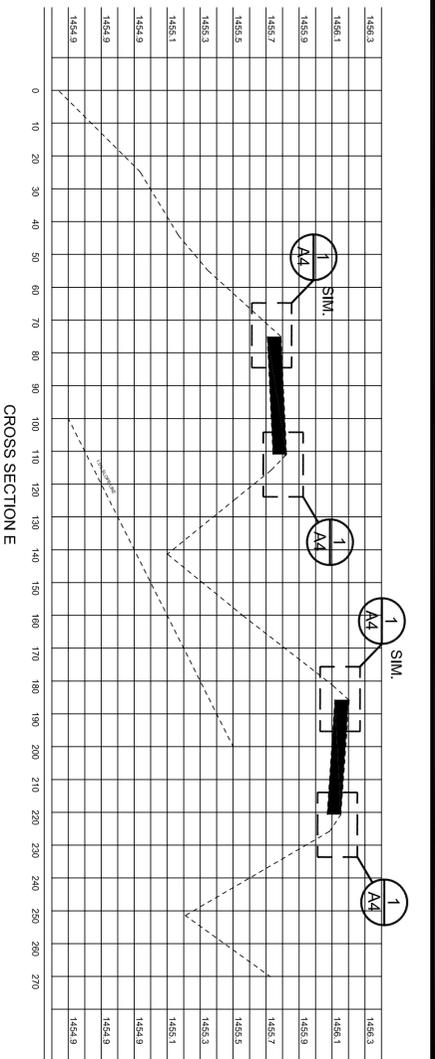
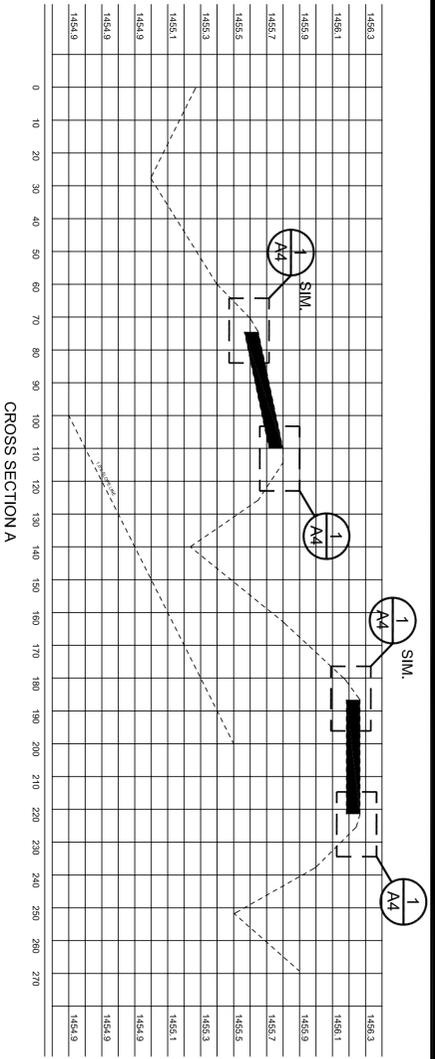
AAr/THOMPSON DESIGNERS, INC.
 ARCHITECTS / ENGINEERS

1237 SOUTH VAL VISTA DRIVE • MESA, AZ 85204 • (480) 802-2010 • FAX 895-0956



DATE: 07/30/2014
 JOB NO.: A-1402
 C1 OF

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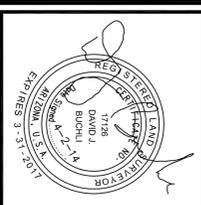
1 CROSS SECTIONS
C2 Scale: Not To Scale

NUMBERED NOTES

1.) SEE DETAIL 1/4 FOR GRADE MODIFICATIONS AROUND ENTIRE PERIMETER OF BOTH HANGAR #1 AND HANGAR #2. THIS SCOPE OF WORK IS FOR ALTERNATE #1.

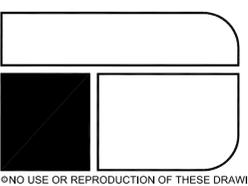
GENERAL NOTES

CASA GRANDE MUNICIPAL AIRPORT
3225 N. LEAR AVENUE
CASA GRANDE, ARIZONA
CROSS SECTIONS



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BUCHLI ENGINEERS, INC.
CIVIL ENGINEERS
8550 East Lake Road - San Tan Valley, Arizona 85143
Phone 480-899-5143

DATE: 07/30/2014
JOB NO.: A-1402
C2 OF

RESULTS OF SURVEY

FOR

CASA GRANDE MUNICIPAL AIRPORT A PORTION OF SECTIONS 29, 31, & 32

T-5-S, R-6-E, G.&S.R.B.&M., MARICOPA COUNTY, ARIZONA

PARCEL DESCRIPTIONS

Parcel No. 1:
The South half of Section 29, Township 5 South, Range 6 East of the Gila and Salt River Base and Meridian, Pinal County, Arizona.
EXCEPT all mineral deposits in the Southwest quarter of said Section 29, as conveyed to the State of Arizona in Deed of Reconveyance recorded in Docket 24, Page 63.

Parcel No. 2:
That portion of the Northeast quarter of Section 31, Township 5 South, Range 6 East of the Gila and Salt River Base and Meridian, Pinal County, Arizona, more particularly described as follows:
BEGINNING at the Northeast corner of said Section 31;
Thence South 00 degrees 04 minutes east, along the East line of said Section 31, a distance of 1880.00 feet;
Thence South 89 degrees 21 minutes West, a distance of 1324.55 feet;
Thence North 00 degrees 06 minutes 22 seconds West, a distance of 1880.00 feet to a point on the North line of said Section 31;
Thence North 89 degrees 21 minutes East, along the North line of said Section 31, a distance of 1325.85 feet to the POINT OF BEGINNING.

Parcel No. 3:
Tract A of CASA GRANDE MUNICIPAL AIRPORT INDUSTRIAL PARK, according to the plat of record in the office of the County Recorder of Pinal County, Arizona, recorded in Cabinet A of Maps, Slide 20.
EXCEPT all mineral deposits, as conveyed to the State of Arizona in Deed of Reconveyance recorded in Docket 24, Page 63 and restated in document entitled "Decision" recorded in Docket 1214, Page 821.

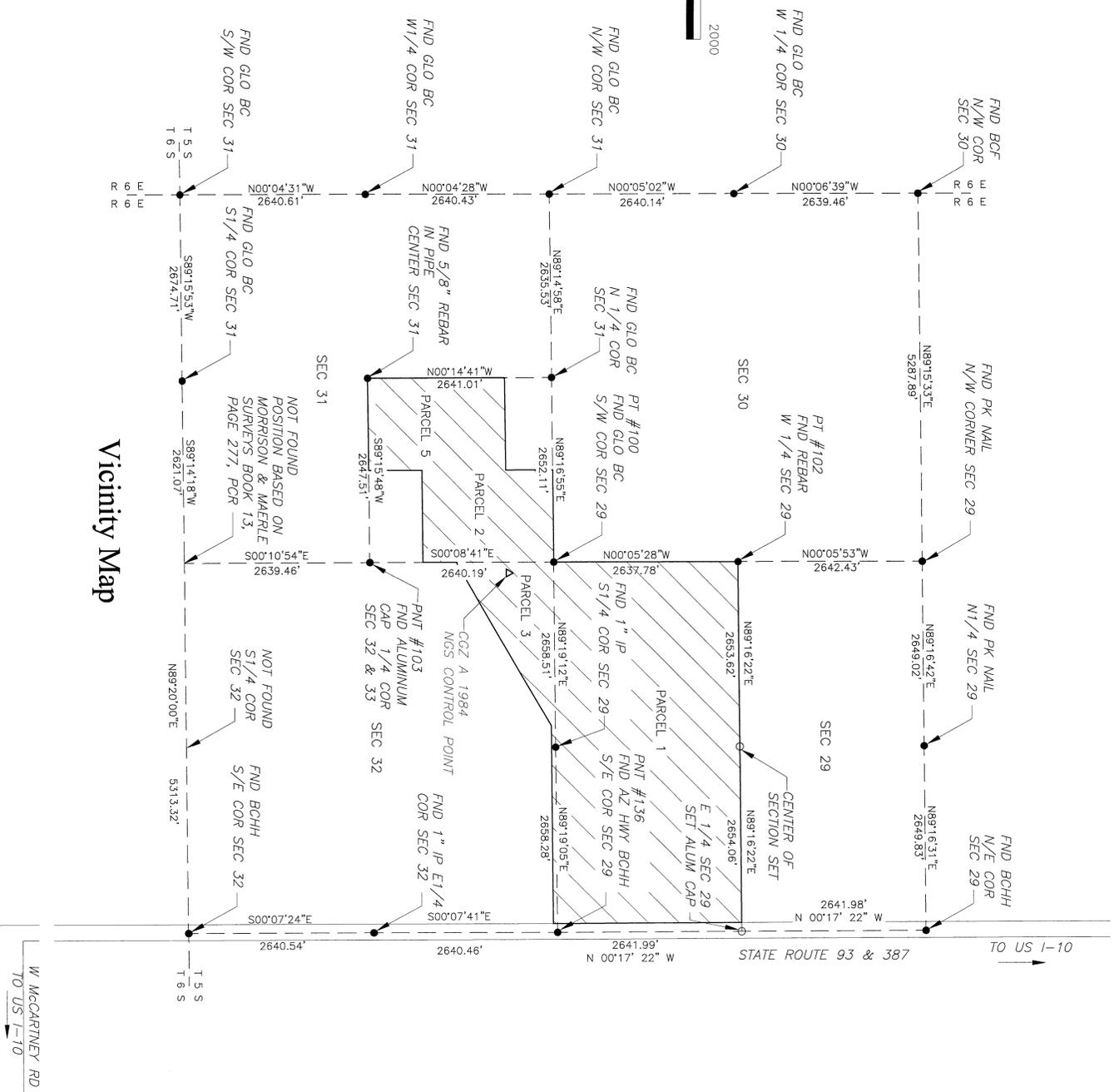
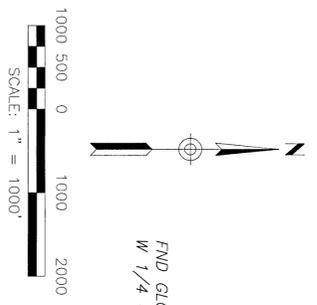
Parcel No. 5:
That portion of the West half of the Northeast quarter of Section 31, Township 5 South, Range 6 East of the Gila and Salt River Base and Meridian, Pinal County, Arizona, more particularly described as follows:
BEGINNING at the center quarter corner of said Section 31;
Thence North 00 degrees 11 minutes 30 seconds West, a distance of 1970.00 feet;
Thence North 89 degrees 20 minutes 30 seconds East, a distance of 1325.27 feet to a point on the East line of said West half of the Northeast quarter of said Section 31;
Thence South 00 degrees 06 minutes 22 seconds East, a distance of 1970.00 feet to the Southeast corner of the West half of the Northeast quarter of said Section 31;
Thence South 89 degrees 20 minutes 30 seconds West, a distance of 1323.56 feet to the POINT OF BEGINNING.

Note: Descriptions provided by Fidelity National Agency of Pinal County, Inc. Order No. 30023742

META DATA
HORIZONTAL DATUM: GRS80
PROJECTION: NAD83(92)
ZONE: ARIZONA CENTRAL - 0202
HORIZONTAL UNITS: INTERNATIONAL FEET
BASIS OF BEARING: GRID NORTH
DISTANCES SHOWN ARE HORIZONTAL
GROUND MEASUREMENTS
NGS SURVEY CONTROL ∇
DESIGNATION - CGZ A 1984
PID - AA3560
NADB3(1992):
32° 57' 03.50195" (N)
111° 46' 24.5886" (W)
NAVD 88 ELEVATION: 1445.7
HORIZONTAL ORDER - B
VERTICAL ORDER - THIRD
PROJECT GRID TO GROUND SCALE FACTOR = 1.000164712

PT#	NORTHING	EASTING	DESCRIPTION
100	710400.262	743751.489	FND BC SEC COR 29, 30, 31, 32
102	713037.598	743747.290	FND RB SEC 29 W 1/4
103	707780.517	743758.158	FND AC 1/4 COR SEC 32 & 33
136	710463.432	749067.023	FND BOHH AZ HWY S/E COR SEC 29.

REFERENCES:
FINAL PLAT OF DONOVAN M. KRAMER SENIOR INDUSTRIAL PARK AT THE AIRPORT, PHASE II & PARCEL H, DENNIS D. HUSTED RLS# 16840, CABINET D, SLIDE 005, OFFICIAL RECORDS PINAL COUNTY, ARIZONA
PLANNED AREA DEV. PLAT "G/A BUTTES", WILLIAM E. COLLINGS RLS# 16801, CABINET D, SLIDE 30, OFFICIAL RECORDS PINAL COUNTY, ARIZONA
FINAL PLAT "AVALON PHASE A", WILLIAM E. COLLINS RLS# 16801, CABINET E, SLIDE 076, OFFICIAL RECORDS PINAL COUNTY, ARIZONA
RESULTS OF SURVEY SEC. 31, THE WLB GROUP, BOOK 2 OF SURVEYS, PAGE 37, OFFICIAL RECORDS PINAL COUNTY, ARIZONA
RECORD OF SURVEY COMBINATION OF PARCELS, MELVIN BAUTISTA RLS# 13969, BOOK 12 OF SURVEYS, PAGE 111, OFFICIAL RECORDS PINAL COUNTY, ARIZONA
RECORD OF SURVEY MINOR LAND DIV., PAUL A. CULVER RLS# 29868, BOOK 2 OF SURVEYS, PAGE 456, OFFICIAL RECORDS PINAL COUNTY, ARIZONA
ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAY PLANS, PROJECT NO. T-014-1-805, DRAWING NO. D-111-419, SHEETS 9-11.
RESULTS OF SURVEY SEC. 6, TSS, REE MORRIS & MARLEE, INC BOOK 13 OF SURVEYS, PAGE 227, OFFICIAL RECORDS OF PINAL COUNTY



Vicinity Map

SURVEYOR'S CERTIFICATE
This Certificate of Survey is only valid if it bears the original seal and inked signature of the certifying Professional Land Surveyor.
I, Kenneth O. Shipley hereby certify that I am a licensed Land Surveyor in State of Arizona; that the survey is true and complete as shown, that all monuments actually exist as shown, that their positions are correctly shown and that said monuments are sufficient to enable the survey to be retraced. This Certificate of Survey is based upon an actual survey performed on the ground by me or under my direct supervision and that said survey meets or exceeds the current Minimum Standards for an Arizona Boundary Survey to the best of my professional abilities, knowledge and beliefs.

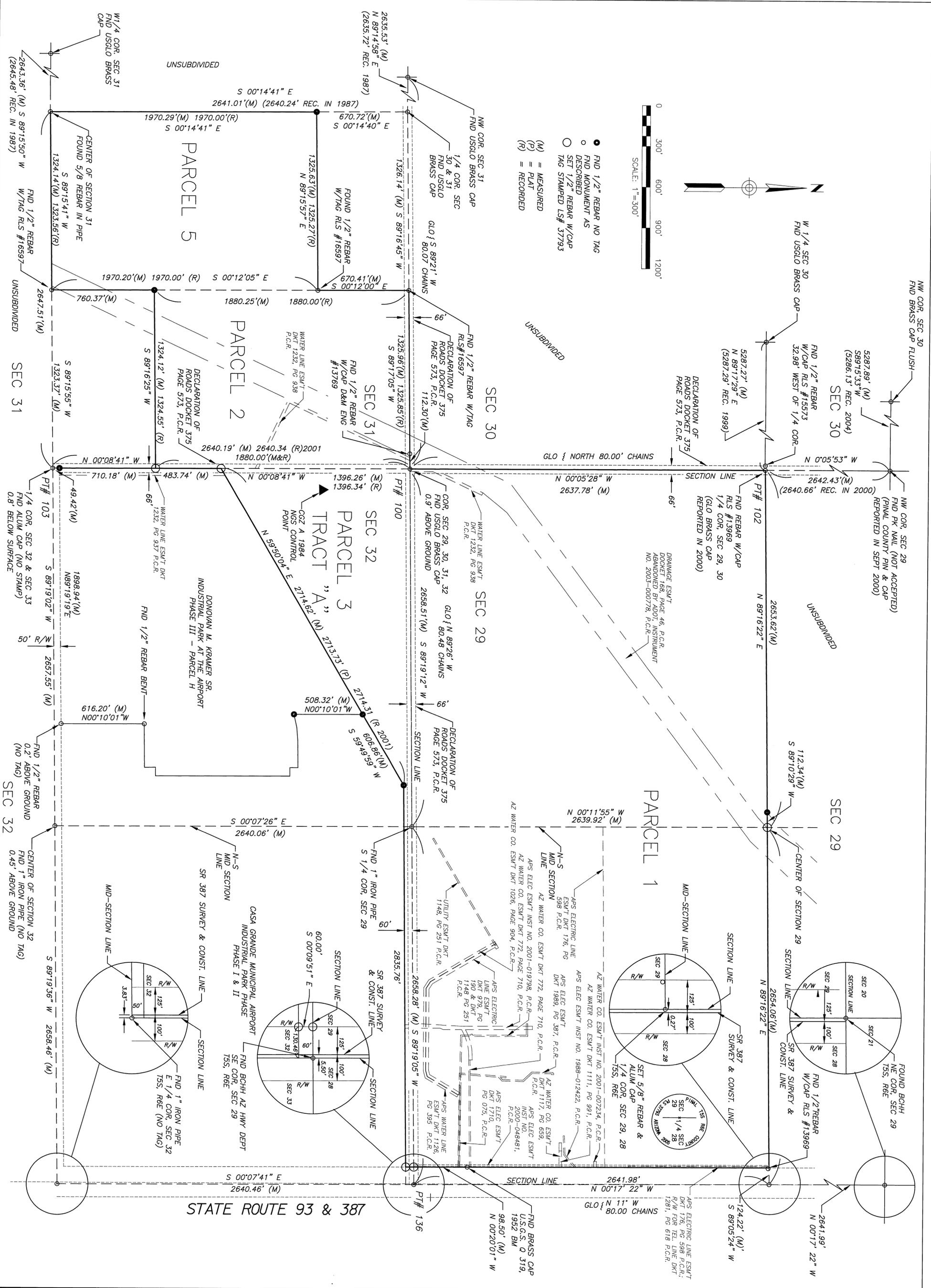
OWNER
CITY OF CASA GRANDE, a municipal corporation
ARBA

PARCEL 1 - 314,1891 ACRES
PARCEL 2 - 37,1897 ACRES
PARCEL 3 - 43,1977 ACRES
PARCEL 5 - 59,9229 ACRES
TOTAL - 474,4975 ACRES

	DATE	06.07.06
	RES	KOS
IPN	KCL	
CHK	KLS	
RESULTS OF SURVEY		
SHEET TITLE	SHEET 4 OF 20	
DWS	C3.0	

CASA GRANDE MUNICIPAL AIRPORT PERIMETER FENCING
FAA GRANT NO. 3-04-007-08
CITY OF CASA GRANDE
510 E FLORENCE BLVD, CASA GRANDE, ARIZONA 85222

DIBBLE & ASSOCIATES
CONSULTING ENGINEERS
7500 N. Dreamy Draw Drive, Suite 200
Phoenix, Arizona 85020
Tel. (602) 957-1155
Fax (602) 957-2838
www.dibblecorp.com

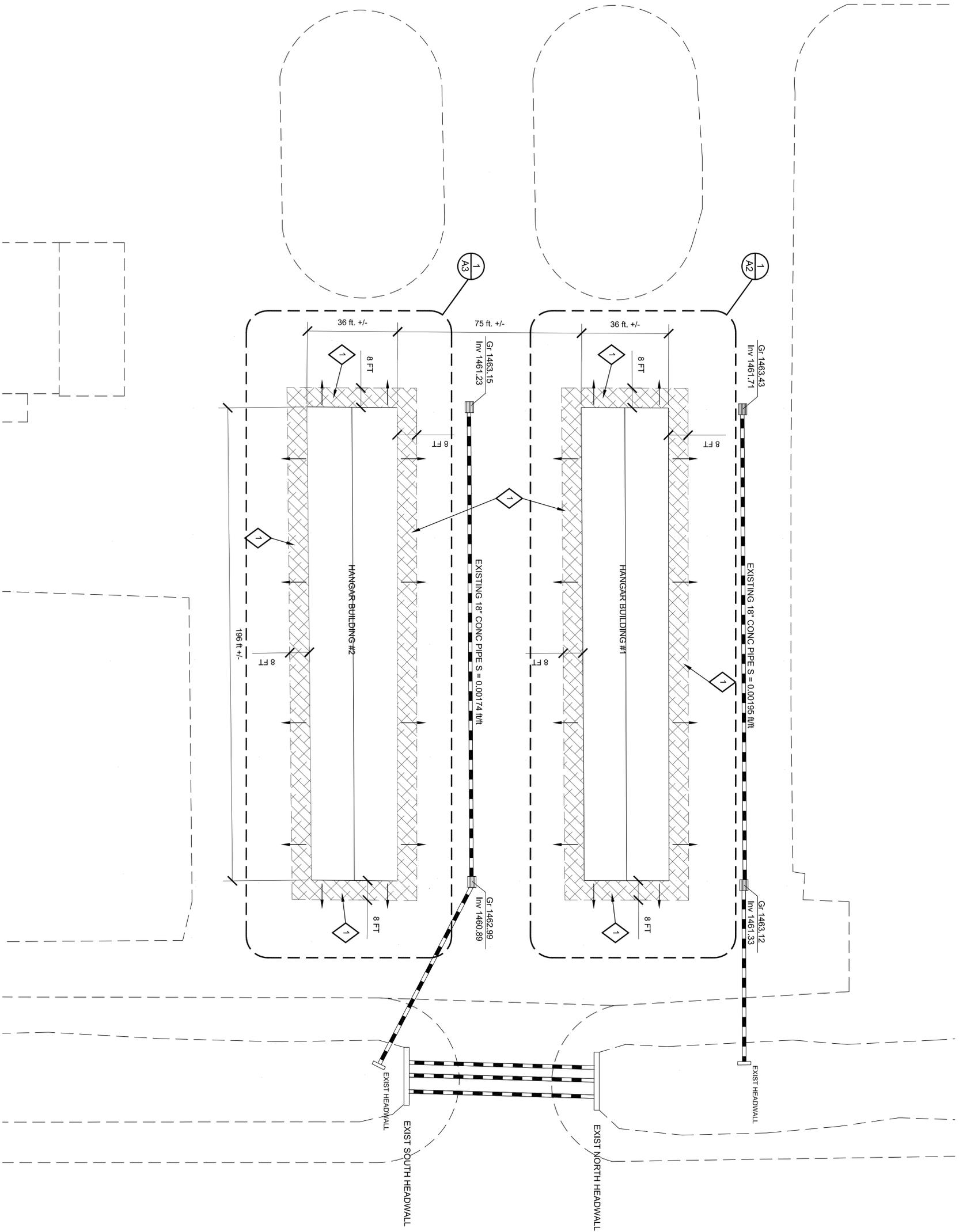


DATE	OCTOBER 2005
BY	K. SHIPPO
CHECKED	S. TIMOLEY
DATE	
BY	
CHECKED	M. JASANNI

NO.	DESCRIPTION	DATE

CASA GRANDE MUNICIPAL AIRPORT PERIMETER FENCING
 CITY OF CASA GRANDE
 510 E FLORENCE BLVD, CASA GRANDE, ARIZONA 85222

DIBBLE & ASSOCIATES
 CONSULTING ENGINEERS
 2633 E. Indian School Road
 Suite 401
 Phoenix, Arizona 85016
 Tel. (602) 957-1155 ♦ Fax (602) 957-2838



NORTH

1
A1

ARCHITECTURAL SITE PLAN
Scale: 1"=20'-0"

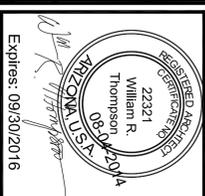
NUMBERED NOTES

ALTERNATE #1

CONTRACTOR SHALL PROVIDE ASPHALT MILLING AROUND THE PERIMETER OF HANGER #1 AND HANGER #2 AND SHALL OBTAIN A POSITIVE SLOPE AWAY FROM THE HANGARS. UPON COMPLETION OF MILLING OPERATIONS, THEN SUCH IMPROVED AREAS ARE TO BE PATCHED WHERE NEEDED AND THEN INSTALL A SEAL COAT OF TWO APPLICATIONS PER MAG STANDARDS. (ALTERNATE #1)

GENERAL NOTES

CASA GRANDE MUNICIPAL AIRPORT
3225 N. LEAR AVENUE
CASA GRANDE, ARIZONA
ARCHITECTURAL SITEPLAN



AAr/THOMPSON DESIGNERS, INC.
ARCHITECTS / ENGINEERS

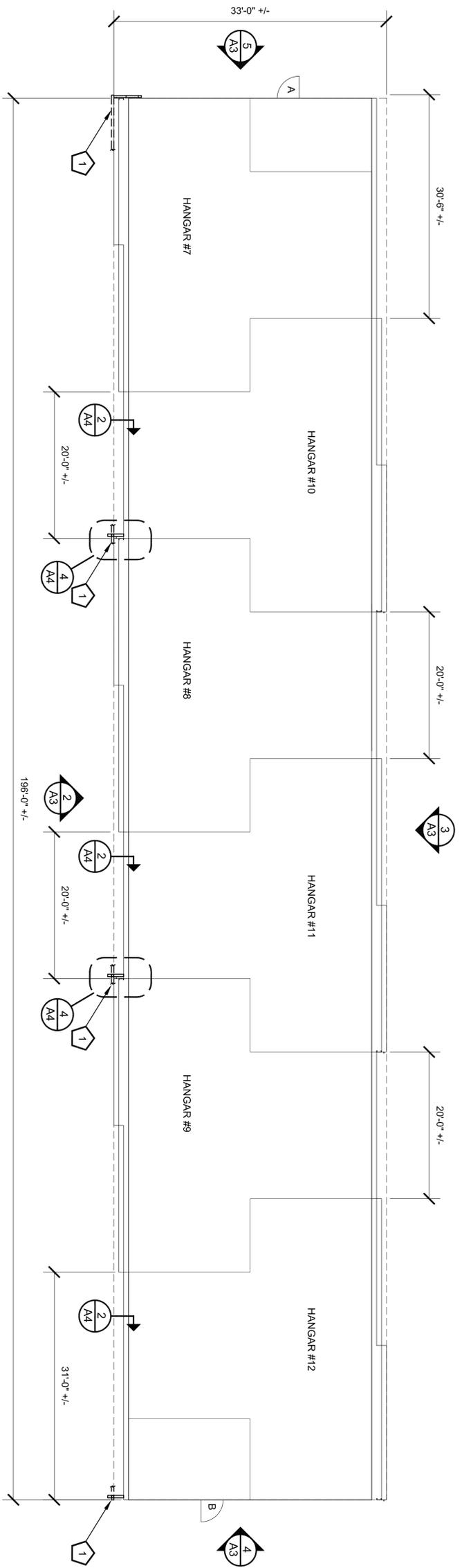
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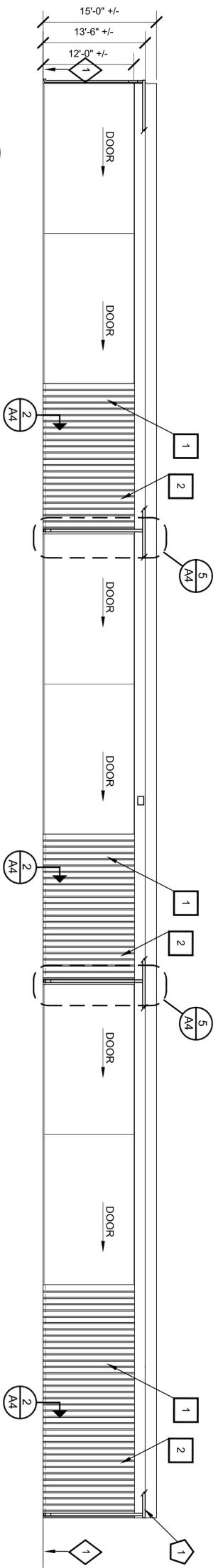
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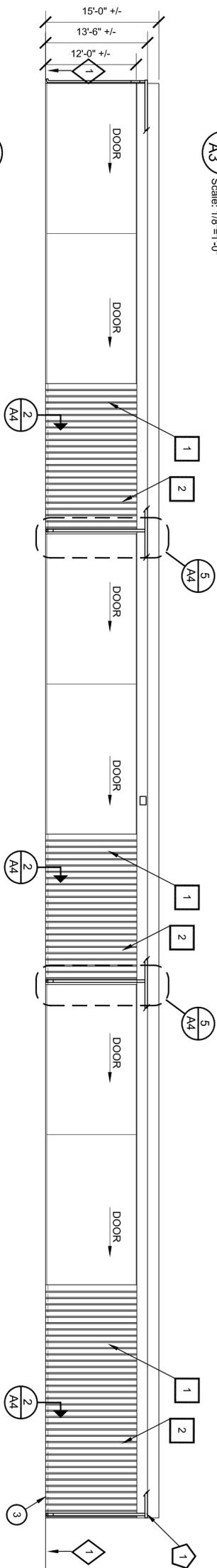
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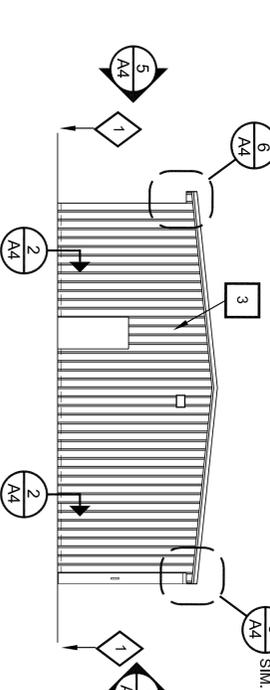
1 HANGAR #2 - OVERALL FLOOR PLAN
Scale: 1/8"=1'-0"



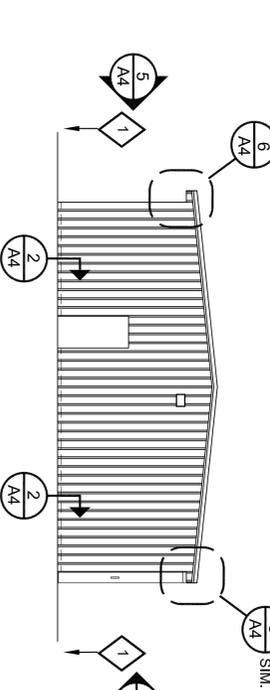
2 HANGAR #2 - OVERALL SOUTH ELEVATION VIEW (LOOKING NORTH)
Scale: 1/8"=1'-0"



3 HANGAR #2 - OVERALL NORTH ELEVATION VIEW (LOOKING SOUTH)
Scale: 1/8"=1'-0"



4 HANGAR #2 - EAST ELEVATION VIEW (LOOKING WEST)
Scale: 1/8"=1'-0"



5 HANGAR #2 - WEST ELEVATION VIEW (LOOKING EAST)
Scale: 1/8"=1'-0"

ALTERNATE #1

1 CONTRACTOR SHALL PROVIDE ASPHALT MILLING AROUND THE PERIMETER OF HANGAR #1 AND HANGAR #2 AND SHALL OBTAIN A POSITIVE SLOPE AWAY FROM THE HANGARS. UPON COMPLETION OF MILLING OPERATIONS, THEN SUCH IMPROVED AREAS ARE TO BE PATCHED WHERE NEEDED AND THEN INSTALL A SEAL COAT OF TWO APPLICATIONS PER MAG STANDARDS. (ALTERNATE #1)

ALTERNATE #2

1 CONTRACTOR SHALL PROVIDE AND INSTALL GUTTERS AND DOWNSPOUTS AS INDICATED ON PLANS. GUTTERS AND DOWNSPOUTS SHALL BE INSTALLED TO DIRECT THE WATER COLLECTED TO THE DOWN SLOPE AREAS OF THE NEWLY DEVELOPED DRAIN SLOPE AWAY FROM THE HANGERS. GUTTERS (6"x6") AND DOWNSPOUTS (3"x5") SHALL BE 26 GA. STEEL WITH KYNAR 500 COATING (OR APPROVED EQUAL) TO MATCH EXISTING BUILDING COLOR.

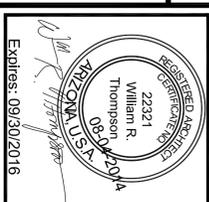
ALTERNATE #3

1 CONTRACTOR SHALL NOTE THAT HANGAR DOOR REPAIRS SHALL BE PERFORMED AT ALL DOOR LOCATIONS AS INDICATED BY REDJUSTING TRACK TRAVEL, REPAIR OF TRACKS, REPAIR OF ROLLERS WHERE DETERIORATED, INSTALLING MODIFIED SEALS, REPLACING PANELS AT DISCRETE LOCATIONS, FIBER REINFORCED VINYL GASKET MATERIALS SHALL BE USED TO FORM DOOR JAMB SEALS AND SEALS AT OTHER LOCATIONS NEEDED TO PROVIDE WEATHER PROTECTION.

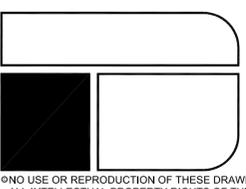
2 CONTRACTOR SHALL NOTE WHERE WALL SIDING MATERIALS ARE DETERIORATED THEN REMOVE SUCH MATERIAL AND REPLACE WITH LIKE SIDING OR SHEET METAL MATERIALS AS AVAILABLE FROM THE RESOURCES DEVELOPED FOR THE EXTRA SIDING OBTAINED FROM THE REMOVAL OF THE EAST END WALLS OF BOTH HANGARS #1 AND #2 AS NOTED ON THE DRAWINGS. LOCATIONS OF LOCAL WALL SIDING DAMAGES OR DETERIORATION ARE INDICATED ON THE ELEVATION PLANS.

3 CONTRACTOR SHALL REMOVE EXISTING WALL PANELS FROM THE EAST WALL OF HANGAR #1 AND HANGAR #2 AND USE AS A RESOURCE FOR THE PATCHING, REPAIRING OR OVERLAYING OF EXISTING 50 YEAR OLD 40" WIDE PANELS TO MATCH THE PROFILE OF EXISTING SIDING WHERE NEEDED. EXISTING PANEL PROFILES WILL BE A RESOURCE INVENTORY FOR MATCHING PANELS. IF ANY SIDING MATERIALS ARE DETERIORATED THEN REMOVE SUCH MATERIAL AND PATCH TO MATCH WITH LIKE SIDING OR SHEET METAL MATERIALS AS AVAILABLE FROM THE RESOURCES DEVELOPED. EAST EXTERIOR WALL SKIN TO BE NEW OF SIMILAR COLOR AND PROFILE ON BOTH HANGAR #1 AND HANGAR #2.

CASA GRANDE MUNICIPAL AIRPORT
3225 LEAR AVENUE
CASA GRANDE, ARIZONA 85122
HANGAR #1 - OVERALL PLAN / ELEV.

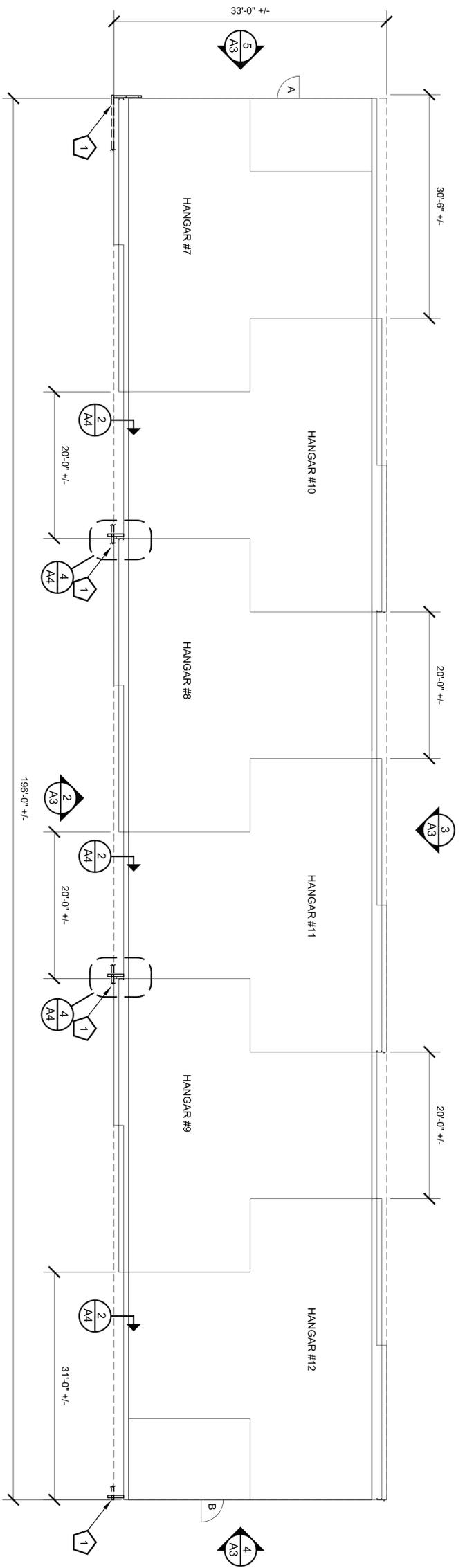


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ARCHITECTS / ENGINEERS
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1201 N. PINAL AVENUE • CASA GRANDE, AZ 85222 • (480) 802-2010 • FAX 895-0956

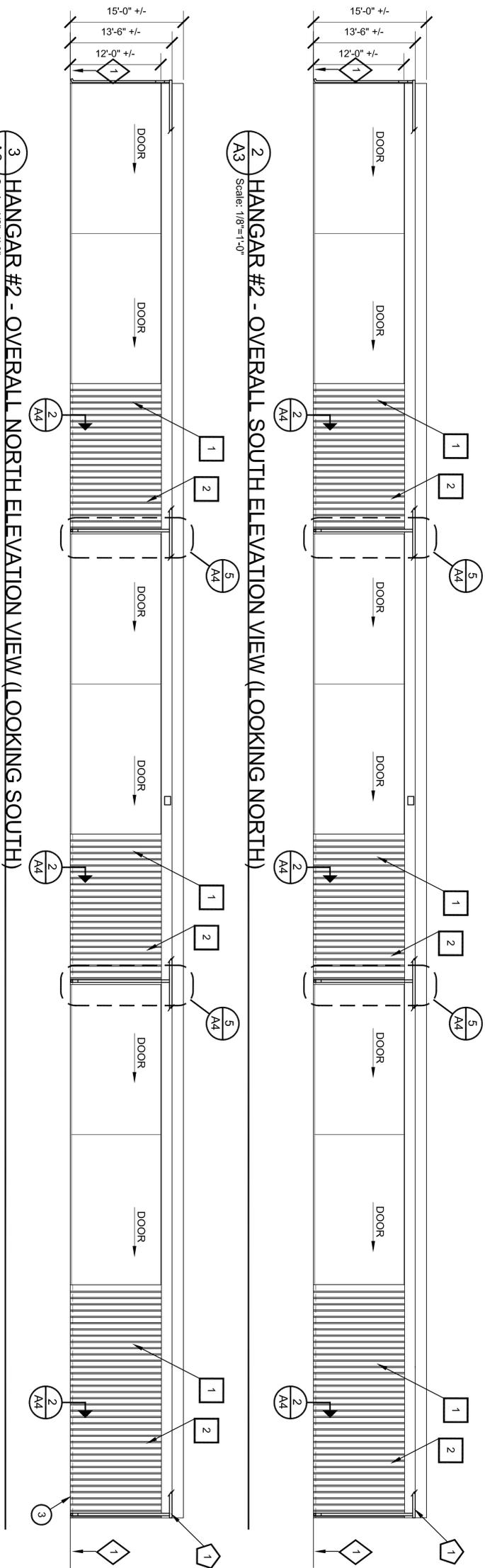


DATE: 07/30/2014
JOB NO.: A-1402
A2 OF

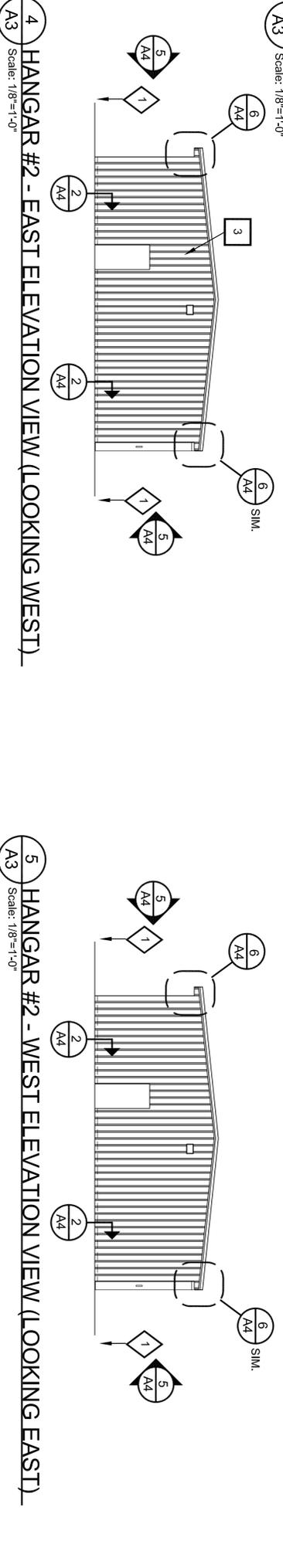
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1 HANGAR #2 - OVERALL FLOOR PLAN
Scale: 1/8"=1'-0"



2 HANGAR #2 - OVERALL SOUTH ELEVATION VIEW (LOOKING NORTH)
Scale: 1/8"=1'-0"



3 HANGAR #2 - OVERALL NORTH ELEVATION VIEW (LOOKING SOUTH)
Scale: 1/8"=1'-0"

4 HANGAR #2 - EAST ELEVATION VIEW (LOOKING WEST)
Scale: 1/8"=1'-0"

5 HANGAR #2 - WEST ELEVATION VIEW (LOOKING EAST)
Scale: 1/8"=1'-0"

ALTERNATE #1

1 CONTRACTOR SHALL PROVIDE ASPHALT MILLING AROUND THE PERIMETER OF HANGAR #1 AND HANGAR #2 AND SHALL OBTAIN A POSITIVE SLOPE AWAY FROM THE HANGARS. UPON COMPLETION OF MILLING OPERATIONS, THEN SUCH IMPROVED AREAS ARE TO BE PATCHED WHERE NEEDED AND THEN INSTALL A SEAL COAT OF TWO APPLICATIONS PER MAG STANDARDS. (ALTERNATE #1)

ALTERNATE #2

1 CONTRACTOR SHALL PROVIDE AND INSTALL GUTTERS AND DOWNSPOUTS AS INDICATED ON PLANS. GUTTERS AND DOWNSPOUTS SHALL BE INSTALLED TO DIRECT THE WATER COLLECTED TO THE DOWN SLOPE AREAS OF THE NEWLY DEVELOPED DRAIN SLOPE AWAY FROM THE HANGERS. GUTTERS (6"x6") AND DOWNSPOUTS (3"x5") SHALL BE 26 GA. STEEL WITH KYNAR 500 COATING (OR APPROVED EQUAL) TO MATCH EXISTING BUILDING COLOR.

ALTERNATE #3

1 CONTRACTOR SHALL NOTE THAT HANGAR DOOR REPAIRS SHALL BE PERFORMED AT ALL DOOR LOCATIONS AS INDICATED BY READJUSTING TRACK TRAVEL, REPAIR OF TRACKS, REPAIR OF ROLLERS WHERE DETERIORATED, INSTALLING MODIFIED SEALS, REPLACING PANELS AT DISCRETE LOCATIONS, FIBER REINFORCED VINYL GASKET MATERIALS SHALL BE USED TO FORM DOOR JAMB SEALS AND SEALS AT OTHER LOCATIONS NEEDED TO PROVIDE WEATHER PROTECTION.

2 CONTRACTOR SHALL NOTE WHERE WALL SIDING MATERIALS ARE DETERIORATED THEN REMOVE SUCH MATERIAL AND REPLACE WITH LIKE SIDING OR SHEET METAL MATERIALS AS AVAILABLE FROM THE RESOURCES DEVELOPED FOR THE EXTRA SIDING OBTAINED FROM THE REMOVAL OF THE EAST END WALLS OF BOTH HANGARS #1 AND #2 AS NOTED ON THE DRAWINGS. LOCATIONS OF LOCAL WALL SIDING DAMAGES OR DETERIORATION ARE INDICATED ON THE ELEVATION PLANS.

3 CONTRACTOR SHALL REMOVE EXISTING WALL PANELS FROM THE EAST WALL OF HANGAR #1 AND HANGAR #2 AND USE AS A RESOURCE FOR THE PATCHING, REPAIRING OR OVERLAYING OF EXISTING 50 YEAR OLD 40" WIDE PANELS TO MATCH THE PROFILE OF EXISTING SIDING WHERE NEEDED. EXISTING PANEL PROFILES WILL BE A RESOURCE INVENTORY FOR MATCHING PANELS. IF ANY SIDING MATERIALS ARE DETERIORATED THEN REMOVE SUCH MATERIAL AND PATCH TO MATCH WITH LIKE SIDING OR SHEET METAL MATERIALS AS AVAILABLE FROM THE RESOURCES DEVELOPED. EAST EXTERIOR WALL SKIN TO BE NEW OF SIMILAR COLOR AND PROFILE ON BOTH HANGAR #1 AND HANGAR #2.

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3225 LEAR AVENUE
CASA GRANDE, ARIZONA 85122
HANGAR #2 - OVERALL PLAN / ELEV.

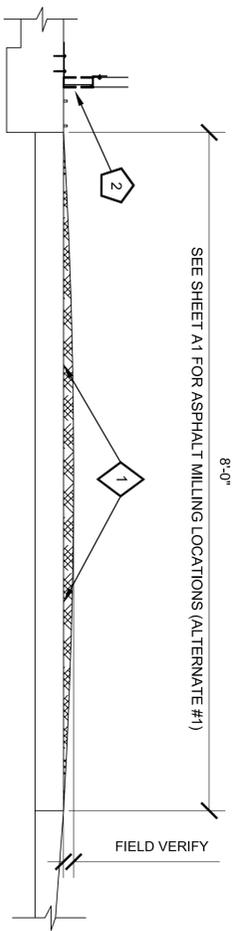
Expires: 09/30/2016

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ARCHITECTS / ENGINEERS
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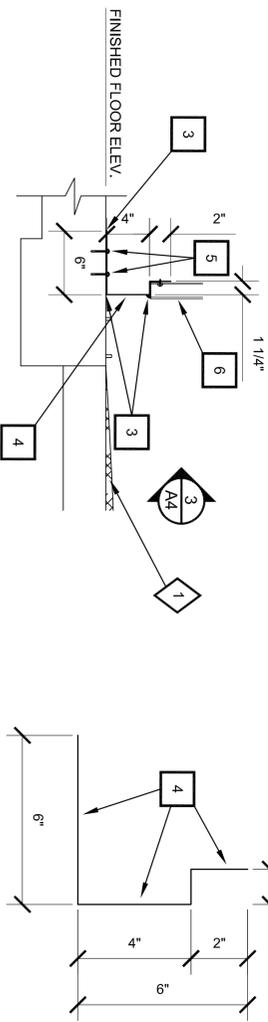


DATE: 07/30/2014
JOB NO.: A-1402
A3 OF

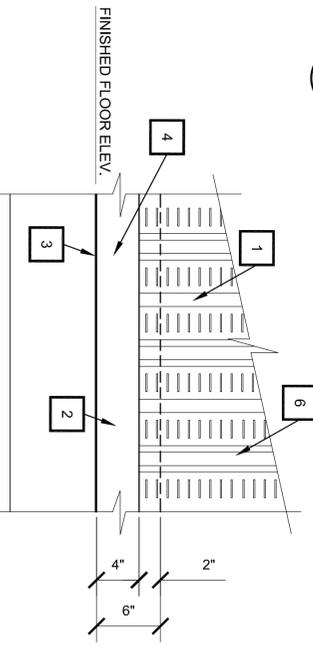
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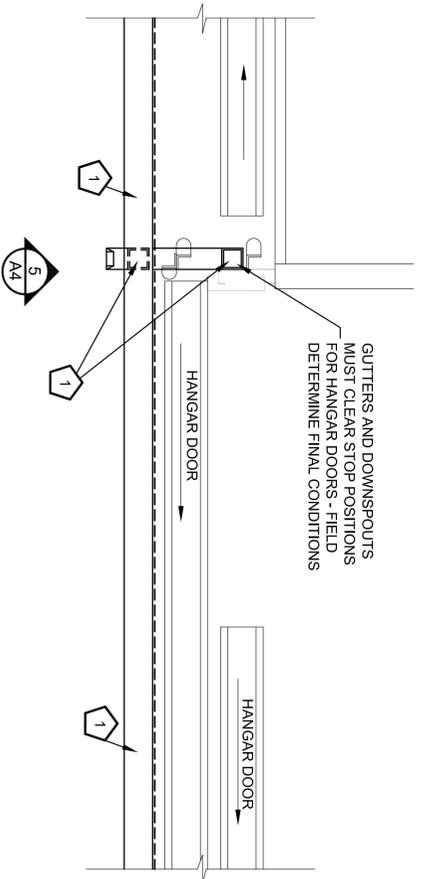
1 HANGAR #1 & #2 - SECTION @ FIXED WALL REPAIRS
 Scale: 1"=1'-0"



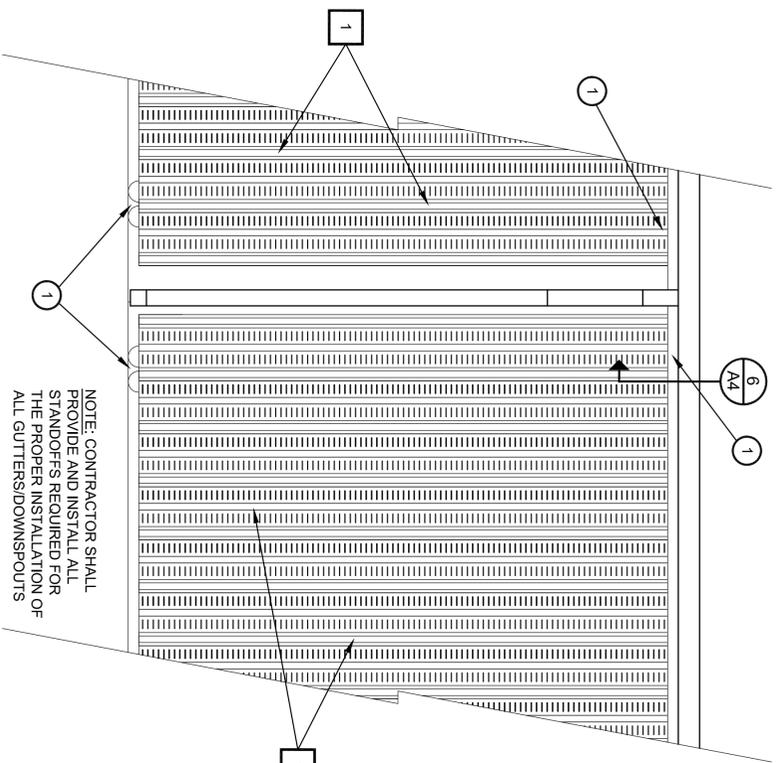
2 HANGAR #1 & #2 - REPLACEMENT SECTION @ FIXED WALL REPAIRS
 Scale: 1 1/2"=1'-0"



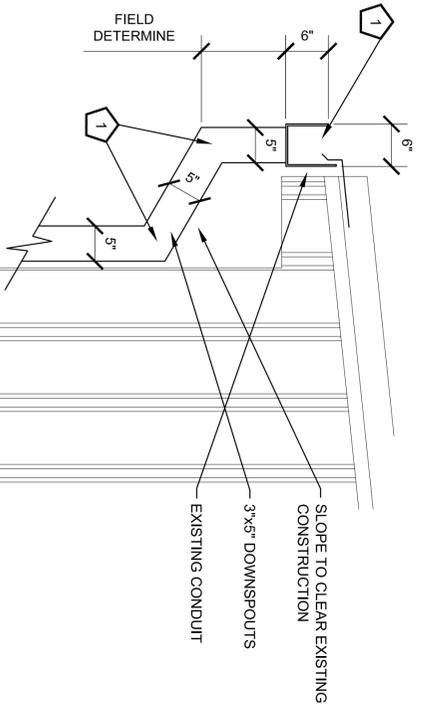
3 HANGAR #1 & #2 - REPLACEMENT SECTION @ FIXED WALL REPAIRS
 Scale: 1 1/2"=1'-0"



4 HANGAR #1 & #2 - GUTTER DISCHARGE LOCATION PLAN (FIELD VERIFY)
 Scale: 1"=1'-0"



5 HANGAR #1 & #2 - TYPICAL GUTTER LOCATION ELEVATION
 Scale: 3/4"=1'-0"



6 HANGAR #1 & #2 - TYPICAL GUTTER LOCATION / PROFILE
 Scale: 1"=1'-0"

BASE BID

- 1 CONTRACTOR SHALL NOTE THAT HANGAR DOOR REPAIRS SHALL BE PERFORMED AT ALL DOOR LOCATIONS AS INDICATED BY READJUSTING TRACK TRAVEL, REPAIR OF TRACKS, REPAIR OF ROLLERS WHERE DETEIORATED, INSTALLING MODIFIED SEALS, REPLACING PANELS AT DISCRETE LOCATIONS, FIBER REINFORCED VINYL GASKET MATERIALS SHALL BE USED TO FORM DOOR JAMB SEALS AND SEALS AT OTHER LOCATIONS, NEEDED TO PROVIDE WEATHER PROTECTION.

ALTERNATE #1

- 1 PROVIDE ASPHALT MILLING AROUND THE PERIMETER OF HANGAR #1 AND HANGAR #2 AND SHALL OBTAIN A POSITIVE SLOPE AWAY FROM THE HANGARS. UPON COMPLETION OF MILLING OPERATIONS, THEN SUCH IMPROVED AREAS ARE TO BE PATCHED WHERE NEEDED AND THEN INSTALL A SEAL COAT OF TWO APPLICATIONS PER MAG STANDARDS. (ALTERNATE #1)

ALTERNATE #2

- 1 CONTRACTOR SHALL PROVIDE AND INSTALL GUTTERS AND DOWNSPOUTS AS INDICATED ON PLANS. GUTTERS AND DOWNSPOUTS SHALL BE INSTALLED TO DIRECT THE WATER COLLECTED TO THE DOWN SLOPE AREAS OF THE NEWLY DEVELOPED DRAIN SLOPE AWAY FROM THE HANGERS. GUTTERS (6"x6") AND DOWNSPOUTS (3"x5") SHALL BE 26 GA. STEEL WITH KYNAR 500 COATING (OR APPROVED EQUAL) TO MATCH EXISTING BUILDING COLOR.

ALTERNATE #3

- 1 CONTRACTOR SHALL NOTE WHERE WALL SIDING MATERIALS ARE DETERIORATED THEN REMOVE SUCH MATERIAL AND REPLACE WITH LIKE SIDING OR SHEET METAL MATERIALS AS AVAILABLE FROM THE RESOURCES DEVELOPED FOR THE EXTRA SIDING OBTAINED FROM THE REMOVAL OF THE EAST END WALLS OF BOTH HANGARS #1 AND #2 AS NOTED ON THE DRAWINGS. LOCATIONS OF LOCAL WALL SIDING DAMAGES OR DETERIORATION ARE INDICATED ON THE ELEVATIONS/PLANS.

- 2 CONTRACTOR SHALL REMOVE 4" OF PANEL BASE (ALL AROUND ENTIRE PERIMETER OF HANGAR #1 AND HANGAR #2) AS SHOWN ON EXTERIOR ELEVATIONS. CONTRACTOR SHALL REMOVE PANELS PRIOR TO USING NIBBLER (NO SAW CUTTING PERMITTED). AFTER PLACEMENT OF 16GA. "Z" SHAPED GALVANIZED TRACK, SET RETROFITTED PANELS IN CLEAR SEALANT.
- 3 CLEAR SEALANT ALL AROUND.
- 4 PROVIDE AND INSTALL 16GA. "Z" SHAPED GALVANIZED TRACK AS DIMENSIONED IN DETAIL 21A4.
- 5 PROVIDE AND INSTALL TWO 1/4" TAP CONES WITH WASHER AT MAXIMUM 24" C/C STAGGERED. SET IN SEALANT.
- 6 EXISTING 40" WIDE WALL PANELS (REMOVED, NIBBLED, AND REINSTALLED).

CASA GRANDE MUNICIPAL AIRPORT
 3225 N. LEAR AVENUE
 CASA GRANDE, ARIZONA

SECTIONS & DETAILS

REGISTERED ARCHITECT
 22321
 William R. Thompson
 08-27-2016
 AZ
 Expires: 09/30/2016

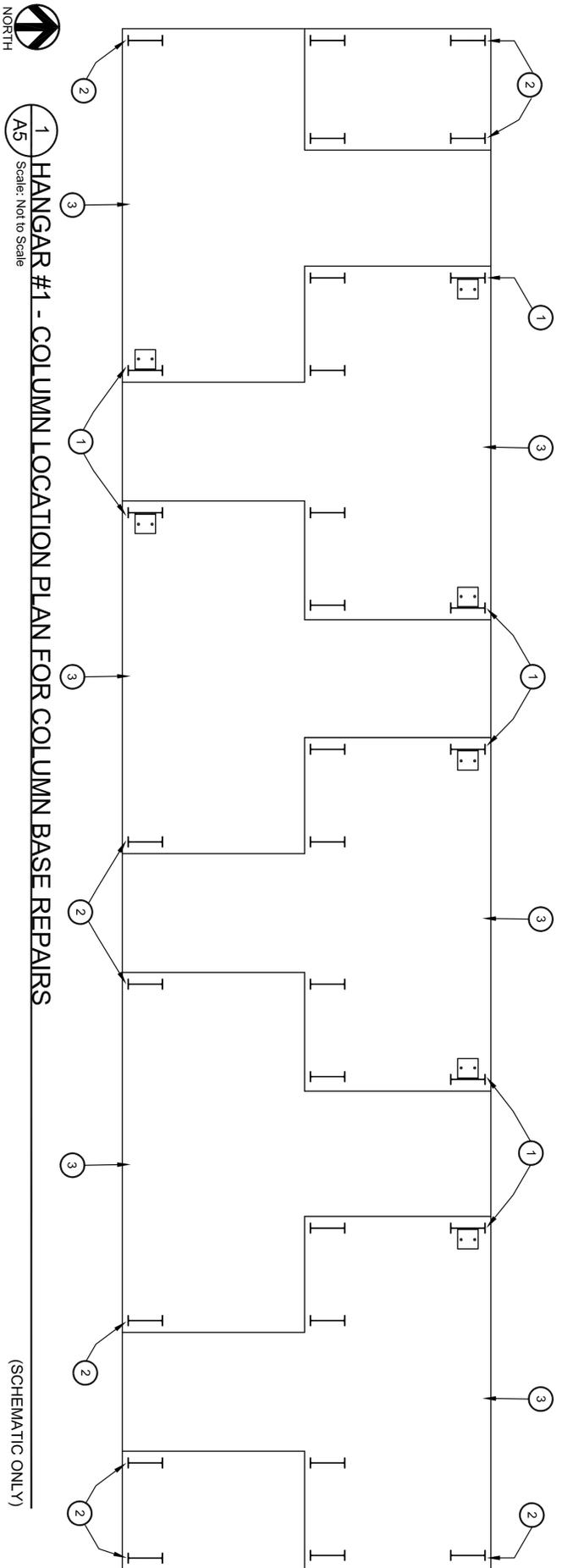
AAr/THOMPSON DESIGNERS, INC.
 ARCHITECTS / ENGINEERS

1237 SOUTH VAL VISTA DRIVE • MESA, AZ 85204 • (480) 802-2010 • FAX 895-0956

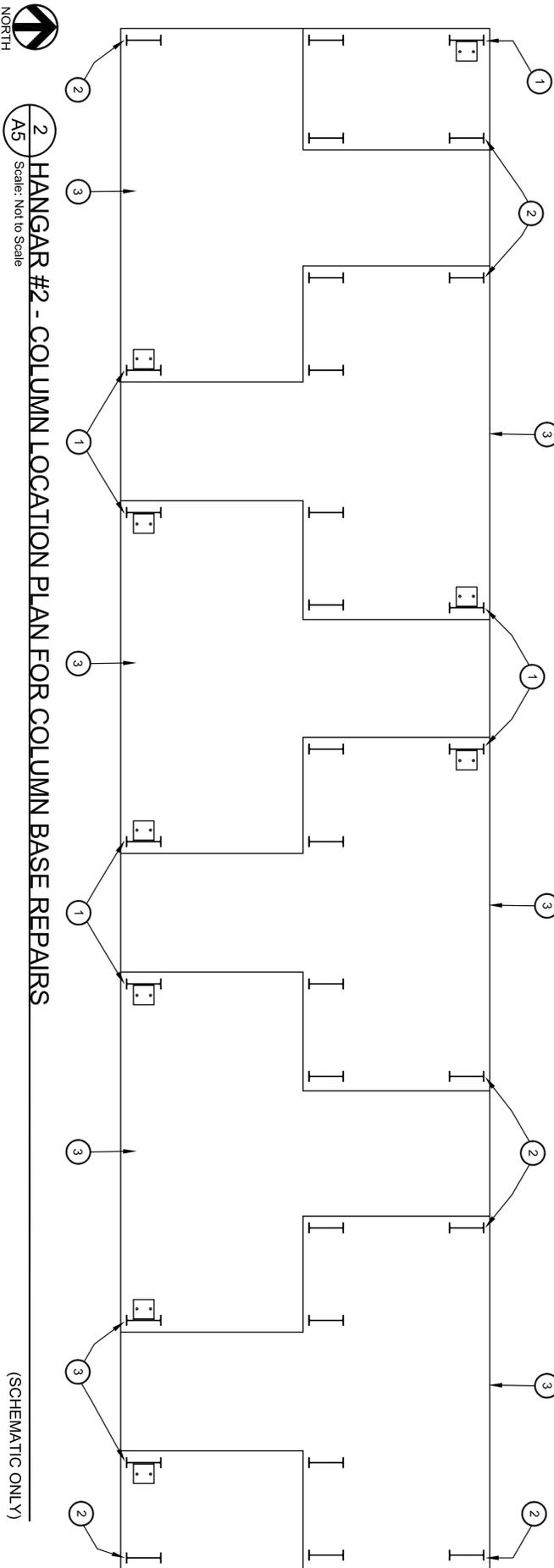


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DATE: 07/30/2014
 JOB NO.: A-1402
A4
 OF



BASE BID



NUMBERED NOTES

- CONTRACTOR SHALL CLEAN (WIRE BRUSH) THOROUGHLY AND PREP AROUND EACH COLUMN AND BASE PLATE AND REMOVE EXISTING BOLT HEAD PRIOR TO INSTALLING NEW ANGLE. CONTRACTOR SHALL LOOSEN PORTIONS OF SIDING AND ASSOCIATED HARDWARE/MATERIAL FOR A COMPLETE INSTALLATION OF BASE ANGLE, EPOXY BOLTS, AND HERCULINER POLYURETHANE COATING APPLIED PER MANUFACTURERS STANDARDS AND PROCEDURES. HERCULINER SHALL BE APPLIED TO A MINIMUM DIMENSION OF 1'-2" ABOVE FINISHED FLOOR TO PROTECT FROM FURTHER DAMAGE AND A MINIMUM DIMENSION OF 4" AROUND PERIMETER OF COLUMN BASE AS INDICATED IN DETAIL. HERCULINER COATING SHALL BE 1/4" FINAL THICKNESS. UPON COMPLETION OF COLUMN REPAIR, RE-ATTACH SIDING AND ASSOCIATED HARDWARE/MATERIAL TO ORIGINAL FITMENT PRIOR TO WORK. EPOXY SET ALL ANCHORS.
- CONTRACTOR SHALL CLEAN (WIRE BRUSH) THOROUGHLY AND PREP AROUND EACH COLUMN AND BASE PLATE. CONTRACTOR SHALL SELECTIVELY LOOSEN PORTIONS OF SIDING AND ASSOCIATED HARDWARE/MATERIAL FOR A COMPLETE INSTALLATION OF HERCULINER POLYURETHANE COATING APPLIED PER MANUFACTURERS STANDARDS AND PROCEDURES. HERCULINER SHALL BE APPLIED TO A MINIMUM DIMENSION OF 1'-2" ABOVE FINISHED FLOOR TO PROTECT FROM FURTHER DAMAGE AND A MINIMUM DIMENSION OF 4" AROUND PERIMETER OF COLUMN BASE AS INDICATED IN DETAIL. HERCULINER COATING SHALL BE 1/4" FINAL THICKNESS. UPON COMPLETION OF COLUMN REPAIR, RE-ATTACH SIDING AND ASSOCIATED HARDWARE/MATERIAL TO ORIGINAL FITMENT PRIOR TO WORK.
- CONTRACTOR SHALL NOTE THAT HANGAR DOOR REPAIRS SHALL BE PERFORMED AT ALL DOOR LOCATIONS AS INDICATED BY READJUSTING TRACK TRAVEL, REPAIR OF TRACKS, REPAIR OF ROLLERS WHERE DETEIORATED, INSTALLING MODIFIED SEALS, REPLACING PANELS AT DISCRETE LOCATIONS. FIBER REINFORCED VINYL GASKET MATERIALS SHALL BE USED TO FORM DOOR JAMB SEALS AND SEALS AT OTHER LOCATIONS NEEDED TO PROVIDE WEATHER PROTECTION.

GENERAL REQUIREMENTS

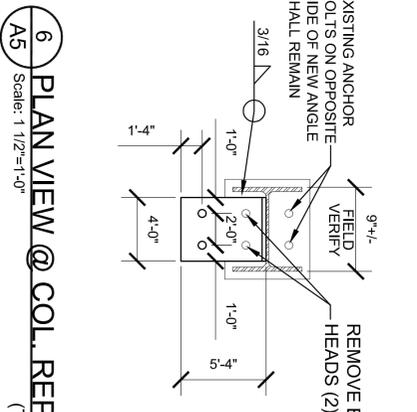
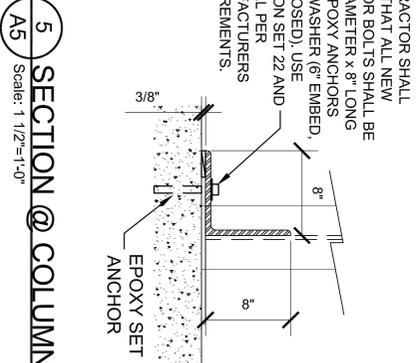
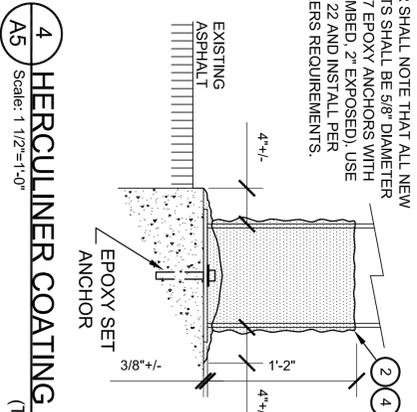
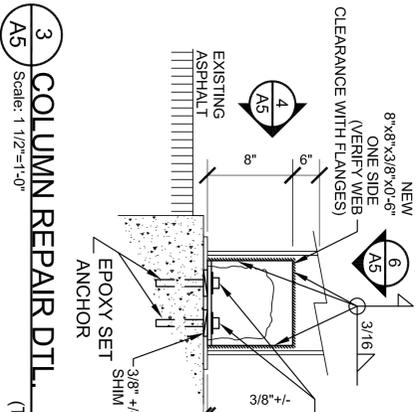
- GENERAL CONTRACTOR SHALL VACUUM ALL GRINDING OR CUTTING AREAS WITH VACUUM CLEANER TO PREVENT RUST DUST FROM BEING DISTRIBUTED TO THE HANGAR AREAS.
- ALL WELDING IS TO BE WITH E70XX ELECTRODES.
- EPOXY BOLT PLACEMENTS MUST BE INSPECTED.
- ALL HERCULINER COATINGS SHALL BE OF 1/4" FINAL THICKNESS.

HERCULINER INFORMATION

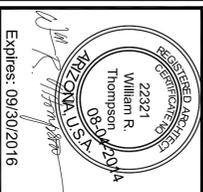
a.) HERCULINER: ADVANCED POLYURETHANE PROTECTIVE COATING BY OLD WORLD INDUSTRIES, CONTACT MANUFACTURER FOR APPLICATION PROCEDURES AND REQUIREMENTS AT 1-800-323-5440 OR ONLINE AT www.herculiner.com. ALL MATERIALS RECEIVING HERCULINER APPLICATION SHALL BE SMOOTH, CLEANED, AND AGGRESSIVELY ROUGHENED PRIOR TO APPLICATION IN THE FIELD. INSTALL ALL AROUND, EACH FACE, TO A MINIMUM 1/4" A.F.F.

EXISTING COLUMNS ARE PRESUMED TO BE W8x15. CONTRACTOR SHALL VERIFY PRIOR TO FABRICATION

FIELD VERIFY ALL DIMENSIONS & CLEARANCES PRIOR TO CONSTRUCTION



CASA GRANDE MUNICIPAL AIRPORT
3225 N. LEAR AVENUE
CASA GRANDE, ARIZONA 85122
COL. REPAIR PLAN / DETAILS



AAr/THOMPSON DESIGNERS, INC.
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OF

Fig 2 – Asbestos / Lead Based Paint Report



**LIMITED ASBESTOS AND LEAD PAINT
SURVEY**

**CASA GRANDE MUNICIPAL AIRPORT
HANGAR BUILDINGS 1 AND 2
CASA GRANDE, ARIZONA**

City Account Number: 205-30-260-2215-00

Presented to:

CITY OF CASA GRANDE

3181 N. Lear Avenue
Casa Grande, AZ 85122

Presented by:

SCS ENGINEERS

4222 East Thomas Street
Suite 310
Phoenix, Arizona 85018

April 14, 2014
File No. 01214112.00

Offices Nationwide
www.scsengineers.com

SCS ENGINEERS

April 14, 2014
SCS File No. 01214112.00

Mr. Terry McKeon
City Civil Engineer/Project Manager
City Of Casa Grande
3181 N. Lear Avenue
Casa Grande, AZ 85122

Subject: Limited Asbestos and Lead Paint Survey
Hangar Buildings 1 and 2
Casa Grande Municipal Airport
City of Casa Grande Account No. 205-30-260-2215-00

Dear Mr. McKeon:

SCS Engineers (SCS) is pleased to provide this Limited Asbestos and Lead Paint Survey Report for the above-referenced site. SCS appreciates the opportunity to assist you with this project. If you have any questions, please contact either of the undersigned at (602) 840-2596.

Sincerely,



Brian Gould
Staff Professional
SCS ENGINEERS



Bradley F. Johnston, RG
Vice President
SCS ENGINEERS



Table of Contents

Section	Page
1 Background	1
2 Building Construction	1
3 Methodology	1
Sampling Methodology and Laboratory Analysis	1
Asbestos.....	1
Lead	2
4 Conclusions and Recommendations.....	3
5 Limitations.....	3

Appendices

- A Figures
 - A2 Suspect ACM Sample Locations – Hangar 1
 - A3 Suspect ACM Sample Locations – Hangar 2
- B Certifications
- C Laboratory Report and Chain of Custody Documentation
- D NESHAP Notification Information

1 BACKGROUND

The City of Casa Grande (COCG) retained SCS Engineers (SCS) to perform a Limited Asbestos and Lead Paint Survey of two airplane hangars at the Casa Grande Municipal Airport in Casa Grande, Arizona (site). The inspection was limited to those areas and materials that will be disturbed by planned renovations at the site as shown on sheets A1, A2, A3, A4, and A5, which were provided to SCS by Thompson Designers, Inc.

On April 10, 2014, Mr. Brian Gould of SCS surveyed the hangars for the presence of asbestos-containing materials (ACMs) and lead paint. The survey included a visual inspection of the renovation areas, collection and laboratory analysis of bulk samples of suspect ACMs, and X-ray fluorescence (XRF) testing and laboratory analysis of potential lead paint. Asbestos building inspector certification is included in Appendix B.

2 BUILDING CONSTRUCTION

The hangars were constructed of steel beams with corrugated steel roof and wall panels. Mastic, duct tape, caulk, rubber, and foam insulation were present on some of the panels.

3 METHODOLOGY

SAMPLING METHODOLOGY AND LABORATORY ANALYSIS

Asbestos

SCS collected a total of 45 bulk samples of the suspect materials as listed in Table 1 below and shown on Figures A2 and A3 in Appendix A. Samples of suspect ACMs were collected by spraying the material with water, removing a small portion, and placing it into a plastic bag. Bags were labeled with a unique identification number and logged onto the chain of custody. Chain of custody was maintained throughout the sampling and analysis process.

Hangar Building 1	
Sample Numbers	Material
1, 2, 3	Concrete
4, 5, 6	Door gasket
7, 8, 9	Foam
10, 11, 12	Mastic
13, 14, 15	Rubber edging
16, 17, 18	Rubber
19, 20, 21	Paint

Hangar Building 2	
Sample Numbers	Material
1, 2, 3	Concrete
4, 5, 6	Door gasket

Hangar Building 2	
Sample Numbers	Material
7, 8, 9	Rubber
10, 11, 12	Mastic
13, 14, 15	Foam
19, 20, 21	Caulk
22, 23, 24	Duct tape
25, 26, 27	Paint

Bulk samples were delivered to EMLab P&K (EMLab) for analysis by Polarized Light Microscopy (PLM). Samples containing multiple layers were individually analyzed by Fiberquant. Applicable laboratory certifications are provided in Appendix B, and laboratory reports are provided in Appendix C.

Lead

SCS performed a visual inspection of those materials that will be disturbed by renovation, particularly those materials subject to cutting, sanding, or grinding. The exterior of the building contained white paint over red paint with red paint only on the interior steel beams. An X-ray fluorescence (XRF) analyzer was used to perform in-place testing of the selected surfaces. At least three tests were performed on each type of paint. The XRF test results were negative for all tested paints.

Paint chip samples were also collected in the subject area to confirm the XRF results. Samples were delivered to Fiberquant Analytical Services (Fiberquant) for analysis for total lead by weight using EPA Method 3050b/7420 modified.

Analytical results for lead analysis of paint chip samples are summarized below.

Sample ID	Location	Results - Lead
		%
26	Hangar 1	0.0087
27	Hangar 1	0.013
28	Hangar 2	0.011
29	Hangar 2	0.018
HUD limit		0.5

Applicable laboratory certification is provided in Appendix B, and laboratory reports are provided in Appendix C.

4 CONCLUSIONS AND RECOMMENDATIONS

A limited asbestos and lead paint survey was performed by SCS of two airplane hangars at the Casa Grande Municipal Airport in Casa Grande, Arizona. Findings are summarized below:

Property Owner	City of Casa Grande
Laboratory	EMLab P&K
Number of Samples	45
Inspection Date	04/10/14
Dates Analyzed	04/11/14
Inspector Certification	
Name:	Brian Gould
Training Provider:	The Asbestos Institute
Certificate Number:	F8982
Expiration:	1/10/2015

Asbestos was not detected in the building materials sampled.

The XRF test results were negative for lead paint and lead was not detected above the HUD limit of 0.5 percent in the paint chip samples collected for confirmatory laboratory analysis.

Complete laboratory reports and chain-of-custody documentation are provided in Appendix C. Appendix D includes a NESHAP Summary Page that contains the information as necessary for filing NESHAP notification forms.

5 LIMITATIONS

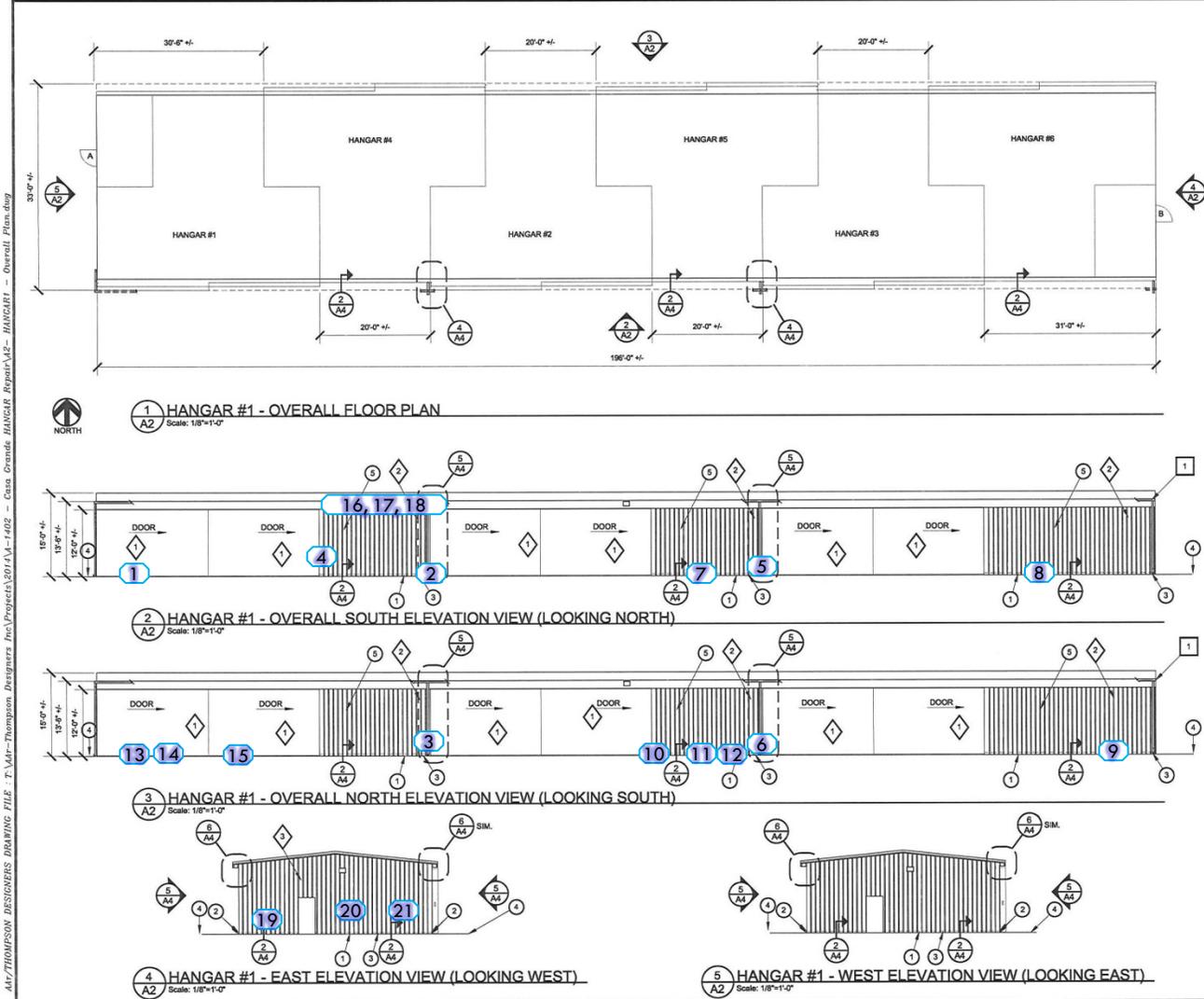
This report has been specifically prepared for use and reliance by the COCG with application to a limited asbestos and lead paint survey of two hangars at the subject site. The report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the opinions presented herein. Third parties use this report at their own risk. SCS assumes no responsibility for the accuracy of information obtained, compiled, or provided by others.

Hazardous materials present (e.g., trace metals, radon, hydrocarbons, etc.) or asbestiforms naturally occurring in soils and rock at this site were not considered in this survey.

Additional information that was not available to the consultant at the time this survey was conducted or changes that may occur on the site may result in a modification to the conclusions and recommendations presented herein. This report is not a legal opinion.

APPENDICES

APPENDIX A
FIGURES



NUMBERED NOTES

- ① CONTRACTOR SHALL REMOVE 4" OF PANEL BASE (ALL AROUND ENTIRE PERIMETER OF HANGAR #1 AND HANGAR #2) AS SHOWN ON EXTERIOR ELEVATIONS. CONTRACTOR SHALL REMOVE PANELS PRIOR TO USING NIBBLER (NO SAW CUTTING PERMITTED). AFTER PLACEMENT OF 16GA "Z" SHAPED GALVANIZED TRACK, SET RETROFITTED PANELS IN CLEAR SEALANT.
- ② CLEAR SEALANT ALL AROUND.
- ③ PROVIDE AND INSTALL 16GA "Z" SHAPED GALVANIZED TRACK AS DIMENSIONED IN DETAIL 21A.
- ④ CONTRACTOR SHALL PROVIDE ASPHALT MILLING AROUND THE PERIMETER OF HANGAR #1 AND HANGAR #2 AND SHALL OBTAIN A POSITIVE SLOPE AWAY FROM THE HANGARS. UPON COMPLETION OF MILLING OPERATIONS, THEN SUCH IMPROVED AREAS ARE TO BE PATCHED WHERE NEEDED AND THEN INSTALL A SEAL COAT OF TWO APPLICATIONS PER MAG STANDARDS.
- ⑤ EXISTING 40" WIDE WALL PANELS (REMOVED, NIBBLED, AND REINSTALLED).

ALTERNATE #1

- ① CONTRACTOR SHALL NOTE THAT HANGAR DOOR REPAIRS SHALL BE PERFORMED AT ALL DOOR LOCATIONS AS INDICATED BY READJUSTING TRACK TRAVEL, REPAIR OF TRACKS, REPAIR OF ROLLERS WHERE DETEIORATED, INSTALLING MOORED SEALS, REPLACING PANELS AT DISCRETE LOCATIONS. FIBER REINFORCED VINYL GASKET MATERIALS SHALL BE USED TO FORM DOOR JAMB SEALS AND SEALS AT OTHER LOCATIONS NEEDED TO PROVIDE WEATHER PROTECTION.
- ② CONTRACTOR SHALL NOTE WHERE WALL SIDING MATERIALS ARE DETEIORATED THEN REMOVE SUCH MATERIAL AND REPLACE WITH LIKE SIDING OR SHEET METAL MATERIALS AS AVAILABLE FROM THE RESOURCES DEVELOPED FOR THE EXTRA SIDING OBTAINED FROM THE REMOVAL OF THE EAST END WALLS OF BOTH HANGARS #1 AND #2 AS NOTED ON THE DRAWINGS. LOCATIONS OF LOCAL WALL SIDING DAMAGES OR DETEIORATION ARE INDICATED ON THE ELEVATIONS/PLANS.
- ③ CONTRACTOR SHALL REMOVE EXISTING WALL PANELS FROM THE EAST WALL OF HANGAR #1 AND HANGAR #2 AND USE AS A RESOURCE FOR THE PATCHING, REPAIRING OR OVERLAYING OF EXISTING 50 YEAR OLD 40" WIDE PANELS TO MATCH THE PROFILE OF EXISTING SIDING WHERE NEEDED. EXISTING PANEL PROFILES WILL BE A RESOURCE INVENTORY FOR MATCHING PANELS. IF ANY SIDING MATERIALS ARE DETEIORATED THEN REMOVE SUCH MATERIAL AND PATCH TO MATCH WITH LIKE SIDING OR SHEET METAL MATERIALS AS AVAILABLE FROM THE RESOURCES DEVELOPED. EAST EXTERIOR WALL SKIN TO BE NEW OF SIMILAR COLOR AND PROFILE ON BOTH HANGAR #1 AND HANGAR #2.

ALTERNATE #2

- ① CONTRACTOR SHALL PROVIDE AND INSTALL GUTTERS AND DOWNSPOUTS AS INDICATED ON PLANS. GUTTERS AND DOWNSPOUTS SHALL BE INSTALLED TO DIRECT THE WATER COLLECTED TO THE DOWN SLOPE AREAS OF THE NEWLY DEVELOPED DRAIN SLOPE AWAY FROM THE HANGARS. GUTTERS (6"x6") AND DOWNSPOUTS (3"x3") SHALL BE 26 GA. STEEL WITH KYNAR 300 COATING (OR APPROVED EQUAL) TO MATCH EXISTING BUILDING COLOR.

CASA GRANDE MUNICIPAL AIRPORT
 3225 LEAR AVENUE
 CASA GRANDE, ARIZONA 85122
 HANGAR #1 - OVERALL PLAN / ELEV.

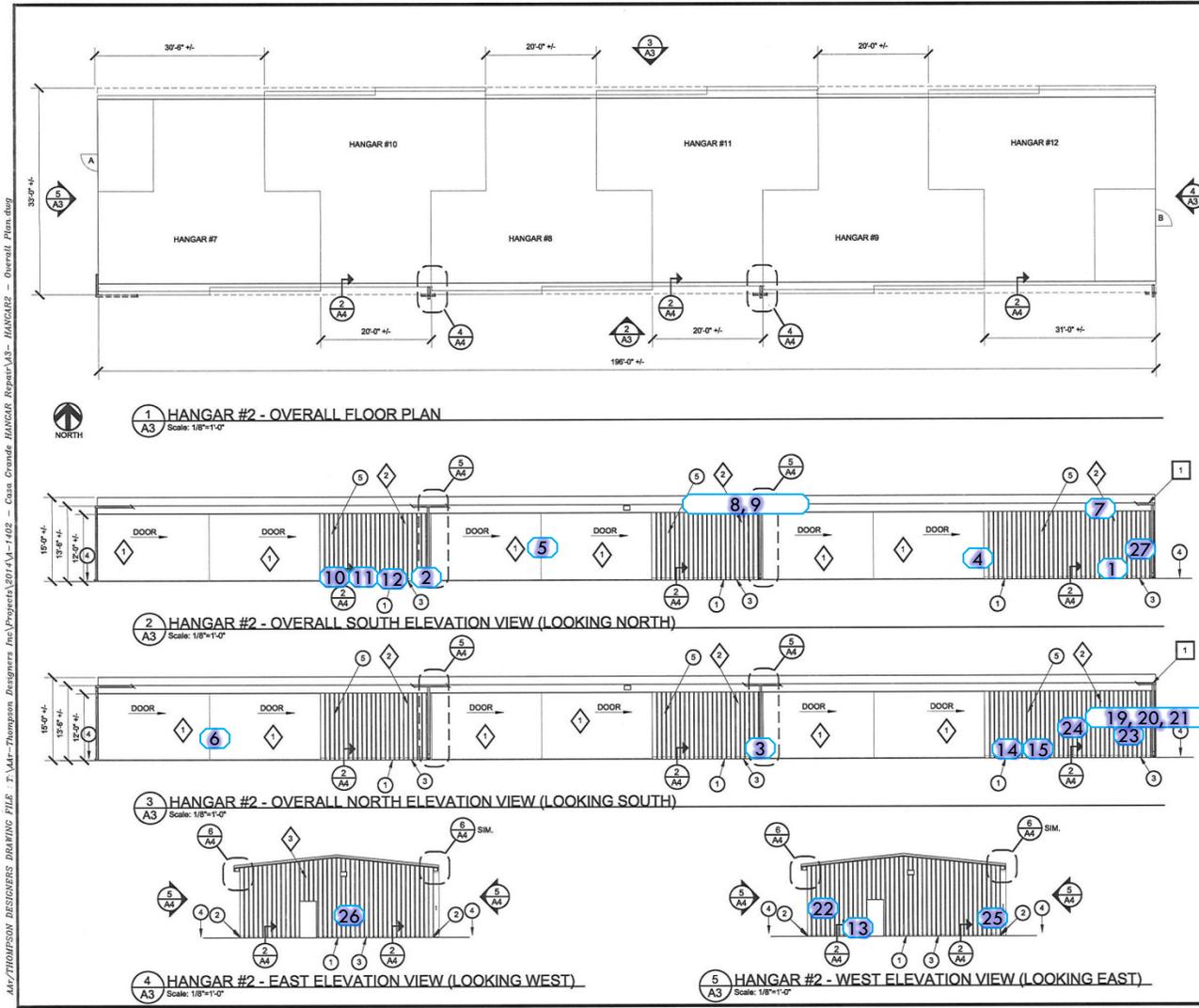
AAR THOMPSON DESIGNERS, INC.
 ARCHITECTS / ENGINEERS
 1201 N. PINAL AVENUE - CASA GRANDE, AZ 85222 - (602) 802-2010 - FAX 855-895-0926
WE WILL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS IN THIS DRAWING. ANY QUESTIONS OR CONCERNS SHOULD BE DIRECTED TO THE ARCHITECT OR ENGINEER OF RECORD.



DATE: 08-20-2014
 JOB NO.: A-1402

A2 OF EXPLANATION

②1 Non ACM Sample location



- NUMBERED NOTES**
- CONTRACTOR SHALL REMOVE 4" OF PANEL BASE (ALL AROUND ENTIRE PERIMETER OF HANGAR #1 AND HANGAR #2) AS SHOWN ON EXTERIOR ELEVATIONS. CONTRACTOR SHALL REMOVE PANELS PRIOR TO USING NIBBLER (NO SAW CUTTING PERMITTED). AFTER PLACEMENT OF 18GA. 2" SHAPED GALVANIZED TRACK, SET RETROFITTED PANELS IN CLEAR SEALANT.
 - CLEAR SEALANT ALL AROUND.
 - PROVIDE AND INSTALL 18GA. 2" SHAPED GALVANIZED TRACK AS DIMENSIONED IN DETAIL 21A.
 - CONTRACTOR SHALL PROVIDE ASPHALT MILLING AROUND THE PERIMETER OF HANGAR #1 AND HANGAR #2 AND SHALL OBTAIN A POSITIVE SLOPE AWAY FROM THE HANGARS. UPON COMPLETION OF MILLING OPERATIONS, THEN SUCH IMPROVED AREAS ARE TO BE PATCHED WHERE NEEDED AND THEN INSTALL A SEAL COAT OF TWO APPLICATIONS PER MAG STANDARDS.
 - EXISTING 40" WIDE WALL PANELS (REMOVED, NIBBLED, AND REINSTALLED).
- ALTERNATE #1**
- CONTRACTOR SHALL NOTE THAT HANGAR DOOR REPAIRS SHALL BE PERFORMED AT ALL DOOR LOCATIONS AS INDICATED BY READJUSTING TRACK TRAVEL, REPAIR OF TRACKS, REPAIR OF ROLLERS WHERE DETEIORATED, INSTALLING MODIFIED SEALS, REPLACING PANELS AT DISCRETE LOCATIONS. FIBER REINFORCED VINYL GASKET MATERIALS SHALL BE USED TO FORM DOOR JAMB SEALS AND SEALS AT OTHER LOCATIONS NEEDED TO PROVIDE WEATHER PROTECTION.
 - CONTRACTOR SHALL NOTE WHERE WALL SIDING MATERIALS ARE DETEIORATED THEN REMOVE SUCH MATERIAL AND REPLACE WITH LIKE SIDING OR SHEET METAL MATERIALS AS AVAILABLE FROM THE RESOURCES DEVELOPED FOR THE EXTRA SIDING OBTAINED FROM THE REMOVAL OF THE EAST END WALLS OF BOTH HANGARS #1 AND #2 AS NOTED ON THE DRAWINGS. LOCATIONS OF LOCAL WALL SIDING DAMAGES OR DETEIORATION ARE INDICATED ON THE ELEVATIONS/PLANS.
 - CONTRACTOR SHALL REMOVE EXISTING WALL PANELS FROM THE EAST WALL OF HANGAR #1 AND HANGAR #2 AND USE AS A RESOURCE FOR THE PATCHING, REPAIRING OR OVERLAYING OF EXISTING 50 YEAR OLD 40" WIDE PANELS TO MATCH THE PROFILE OF EXISTING SIDING WHERE NEEDED. EXISTING PANEL PROFILES WILL BE A RESOURCE INVENTORY FOR MATCHING PANELS. IF ANY SIDING MATERIALS ARE DETEIORATED THEN REMOVE SUCH MATERIAL AND PATCH TO MATCH WITH LIKE SIDING OR SHEET METAL MATERIALS AS AVAILABLE FROM THE RESOURCES DEVELOPED. EAST EXTERIOR WALL SKIN TO BE NEW OF SIMILAR COLOR AND PROFILE ON BOTH HANGAR #1 AND HANGAR #2.
- ALTERNATE #2**
- CONTRACTOR SHALL PROVIDE AND INSTALL GUTTERS AND DOWNSPOUTS AS INDICATED ON PLANS. GUTTERS AND DOWNSPOUTS SHALL BE INSTALLED TO DIRECT THE WATER COLLECTED TO THE DOWN SLOPE AREAS OF THE NEARLY DEVELOPED DRAIN SLOPE AWAY FROM THE HANGARS. GUTTERS (6"x6") AND DOWNSPOUTS (2"x2") SHALL BE 26 GA. STEEL WITH KYNAR 500 COATING (OR APPROVED EQUAL) TO MATCH EXISTING BUILDING COLOR.

CASA GRANDE MUNICIPAL AIRPORT
3225 LEAR AVENUE
CASA GRANDE, ARIZONA 85122
HANGAR #2 - OVERALL PLAN / ELEV.

AA/T THOMPSON DESIGNERS, INC.
ARCHITECTS / ENGINEERS
1237 SOUTH VAL VISTA DRIVE-MESA, AZ 85204 • (480) 802-2010 • FAX 895-0956
1201 N. FRANK AVENUE - CASA GRANDE, AZ 85327 • (480) 892-2010 • FAX 895-0956
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DATE: 03-20-2024
JOB NO.: A-1402
A3 OF

EXPLANATION

21 Non ACM Sample location

01214112.00

City of Casa Grande
Municipal Airport
Hangars 1 and 2
Casa Grande, Arizona

Figure A3
Suspect ACM Sample Locations – Hangar 2

APPENDIX B
CERTIFICATIONS

THE ASBESTOS INSTITUTE

Certifies that

Brian Gould

has attended the EPA approved course

AHERA Building Inspector Refresher

Approval Code: CA-089-06

January 10, 2014

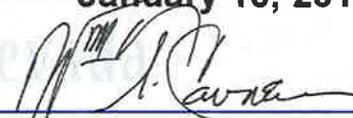
and successfully passed the competency exam.

Date of Examination: **January 10, 2014**

Date of Expiration: **January 10, 2015**



William T. Cavness
Director



Approved Instructor

THE ASBESTOS INSTITUTE

20033 N. 19th Avenue

Building #6

Phoenix, AZ 85027

602-864-6564

APPENDIX C

LABORATORY REPORT AND CHAIN OF CUSTODY
DOCUMENTATION



Report for:

Brian Gould, Brad Johnston
SCS Engineers - AZ
4222 East Thomas Road, Suite 310
Phoenix, AZ 85018

Regarding: Project: N/A; Casa Grande Airport Hanger Bld 1
EML ID: 1194680

Approved by:

Dates of Analysis:
Asbestos-EPA Method 600/R-93/116: 04-11-2014

Approved Signatory
Renee Luna

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: SCS Engineers - AZ
C/O: Brian Gould, Brad Johnston
Re: N/A; Casa Grande Airport Hanger Bld 1Date of Sampling: 04-10-2014
Date of Receipt: 04-10-2014
Date of Report: 04-11-2014**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: 1, Concrete**

Lab ID-Version‡: 5420773-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Sample Composite Homogeneity: Good	

Location: 2, Concrete

Lab ID-Version‡: 5420774-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Sample Composite Homogeneity: Good	

Location: 3, Concrete

Lab ID-Version‡: 5420775-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Sample Composite Homogeneity: Good	

Location: 4, Gasket

Lab ID-Version‡: 5420776-1

Sample Layers	Asbestos Content
Gray Gasket	ND
Sample Composite Homogeneity: Good	

Location: 5, Gasket

Lab ID-Version‡: 5420777-1

Sample Layers	Asbestos Content
Gray Gasket	ND
Sample Composite Homogeneity: Good	

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: SCS Engineers - AZ
 C/O: Brian Gould, Brad Johnston
 Re: N/A; Casa Grande Airport Hanger Bld 1

Date of Sampling: 04-10-2014
 Date of Receipt: 04-10-2014
 Date of Report: 04-11-2014

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 6, Gasket

Lab ID-Version‡: 5420778-1

Sample Layers	Asbestos Content
Gray Gasket	ND
Sample Composite Homogeneity: Good	

Location: 7, Foam

Lab ID-Version‡: 5420779-1

Sample Layers	Asbestos Content
Yellow Foam	ND
Sample Composite Homogeneity: Good	

Location: 8, Foam

Lab ID-Version‡: 5420780-1

Sample Layers	Asbestos Content
Yellow Foam	ND
Sample Composite Homogeneity: Good	

Location: 9, Foam

Lab ID-Version‡: 5420781-1

Sample Layers	Asbestos Content
Yellow Foam	ND
Sample Composite Homogeneity: Good	

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Client: SCS Engineers - AZ
 C/O: Brian Gould, Brad Johnston
 Re: N/A; Casa Grande Airport Hanger Bld 1

Date of Sampling: 04-10-2014
 Date of Receipt: 04-10-2014
 Date of Report: 04-11-2014

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 10, Mastic

Lab ID-Version‡: 5420782-1

Sample Layers	Asbestos Content
Black Mastic	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Good

Location: 11, Mastic

Lab ID-Version‡: 5420783-1

Sample Layers	Asbestos Content
Black Mastic	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Good

Location: 12, Mastic

Lab ID-Version‡: 5420784-1

Sample Layers	Asbestos Content
Black Mastic	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Good

Location: 13, Rubber Edging

Lab ID-Version‡: 5420785-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material (Rubber)	ND
Sample Composite Homogeneity:	Good

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 C/O: Brian Gould, Brad Johnston
 Re: N/A; Casa Grande Airport Hanger Bld 1

Date of Sampling: 04-10-2014
 Date of Receipt: 04-10-2014
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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 14, Rubber Edging

Lab ID-Version‡: 5420786-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material (Rubber)	ND
Sample Composite Homogeneity: Good	

Location: 15, Rubber Edging

Lab ID-Version‡: 5420787-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material (Rubber)	ND
Sample Composite Homogeneity: Good	

Location: 16, Rubber

Lab ID-Version‡: 5420788-1

Sample Layers	Asbestos Content
Black/White Non-Fibrous Material (Rubber)	ND
Sample Composite Homogeneity: Good	

Location: 17, Rubber

Lab ID-Version‡: 5420789-1

Sample Layers	Asbestos Content
Black/White Non-Fibrous Material (Rubber)	ND
Sample Composite Homogeneity: Good	

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 C/O: Brian Gould, Brad Johnston
 Re: N/A; Casa Grande Airport Hanger Bld 1

Date of Sampling: 04-10-2014
 Date of Receipt: 04-10-2014
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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 18, Rubber

Lab ID-Version‡: 5420790-1

Sample Layers	Asbestos Content
Black/White Non-Fibrous Material (Rubber)	ND
Sample Composite Homogeneity:	Good

Location: 19, Paint

Lab ID-Version‡: 5420791-1

Sample Layers	Asbestos Content
Red Paint	ND
Sample Composite Homogeneity:	Good

Location: 20, Paint

Lab ID-Version‡: 5420792-1

Sample Layers	Asbestos Content
Red Paint	ND
Sample Composite Homogeneity:	Good

Location: 21, Paint

Lab ID-Version‡: 5420793-1

Sample Layers	Asbestos Content
Red Paint	ND
Sample Composite Homogeneity:	Good

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Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85023 • (800) 551-4802
San Bruno, CA: 1150 Bayhill Drive, #103, San Bruno, CA 94066 • (650) 988-6853

Weather:	Fog	Rain	Snow	Wind	Clear
Light:	Light	Moderate	Heavy		

Non-Culturable	Spore Trap	Tap	Swab	Bulk
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fungi - Spore Trap Analysis Spore Trap Analysis - Other particles Direct Microscopic Exam (Qualitative) Quantitative Spore Count Direct Exam 1-Media Surface Fungi (Genus ID + Asp. spp.) 2-Media Surface Fungi (Genus ID + Asp. spp.) 3-Media Surface Fungi (Genus ID + Asp. spp.) Culturable Air Fungi (Genus ID + Asp. spp.) Gram Stain & Counts (Culturable Air & Surface Bacteria) Legionella culture Total Coliform, E. coli (Presence/Absence) Membrane Filtration (specify organism): MPN Bacteria (specify organism): QuantiTray - Sewage Screen Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400) Asbestos Analysis - PLM (EPA method 8000R-93-116) PCR (specify test): Specify Service				



Other Requests

CONTACT INFORMATION

Company: SCS Engineers
 Contact: Brian Gould/Brad Johnston
 Phone: 602-840-2596
 Address: 4222 E Thomas Road, Suite 310, Phoenix, Arizona
 Special Instructions:

PROJECT INFORMATION

Project ID:
 Project Description: Casa Grande Airport Hanger Bid. 1
 Project Zip Code:
 Sampling Date & Time: 4/10/14
 Sampled By: B. Gould
 Turnaround Time Codes (TAT):
 STD - Standard (Default)
 ND - Next Business Day
 SD - Same Business Day Rush
 WH - Weekend / Holiday

TURNAROUND TIME CODES (TAT)

Sample ID	Location	Sample Type	Container	Analysis
1	cease	B	STD	ND
2	cease	B	STD	ND
3	cease	B	STD	ND
4	Gosland	B	STD	ND
5	Gosland	B	STD	ND
6	Gosland	B	STD	ND
7	Gosland	B	STD	ND
8	Gosland	B	STD	ND
9	Gosland	B	STD	ND
10	Gosland	B	STD	ND
11	Gosland	B	STD	ND

SAMPLE TYPE CODES:

BC - Bio Cassette™	ST - Spore Trap, Zefon	T - Tape	D - Disk
AT5 - Andersen	Allegretto, Burkard ...	SW - Swab	SO - Soil
SAS - Surface Air Sampler	P - Potable Water	B - Bulk	
CP - Contact Plate	NP - Non-Potable Water	O - Other	

REUNISHED BY: DATE & TIME: 4/10/14 12:30

RECEIVED BY: [Signature]

DATE & TIME: 4-10-14

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Doc #112 Rev 23 Revoked 4/1/2012 Page 1 of 1, 04

Cherry Hill, NJ: 1936 Olney Avenue, Cherry Hill, NJ 08003 * (856) 671-1984
Phoenix, AZ: 1501 West Kendall Drive, Phoenix, AZ 85027 * (602) 651-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (650) 888-6655

Weather:	Fog	Rain	Snow	Wind	Clear
None	<input type="checkbox"/>				
Light	<input type="checkbox"/>				
Moderate	<input type="checkbox"/>				
Heavy	<input type="checkbox"/>				

Non-Culturable	Spore Trap	Culturable	Tepe Swab	Bulk
<input type="checkbox"/>				

001194680

Per Requests

CONTACT INFORMATION

Company: SCS Engineers Address: 4222 E Thomas Road, Suite 310, Phoenix, Arizona
 Contact: Brian Gould/Brad Johnston Special Instructions:
 Phone: 602-840-2596

PROJECT INFORMATION

Project ID: _____
 Project Description: Casa Grande Airport Hanger Bid #1
 Project Zip Code: _____ Sampling Date & Time: 4/10/14
 PO Number: _____ Sampled By: B. Gould

TURN AROUND TIME CODES (TAT)

STD - Standard (DEFAULT)
 ND - Next Business Day
 SD - Same Business Day Rush
 WH - Weekend / Holiday

Sample ID	Description	Sample Type	Location	Time of Day	Temp. (F)	Relative Humidity (%)	Notes
12	castic	B	STD				
13	rubber o-rings	B	STD				
14	"	B	STD				
15	"	B	STD				
16	rubber	B	STD				
17	"	B	STD				
18	"	B	STD				
19	"	B	STD				
20	Paint	B	STD				
21	"	B	STD				
22	"	B	STD				

Sample ID	Description	Sample Type	Location	Time of Day	Temp. (F)	Relative Humidity (%)	Notes
12	castic	B	STD				
13	rubber o-rings	B	STD				
14	"	B	STD				
15	"	B	STD				
16	rubber	B	STD				
17	"	B	STD				
18	"	B	STD				
19	"	B	STD				
20	Paint	B	STD				
21	"	B	STD				
22	"	B	STD				

Sample ID	Fungi - Spore Trap Analysis	Spore Trap Analysis - Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	Quanti Tray - Sewage Screen	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis - PLM (EPA method 800/R-93-116)	PCR (specify test):	Specify Service
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE TYPE CODES:	T - Tape	D - Dust	DATE & TIME	RECEIVED BY	DATE & TIME
BC - BioCesette™	ST - Spore Trap, Zelon, Allergon, Burkard ...	SW - Swab	SO - Soil		
A1S - Anderson	P - Potable Water	B - Bulk			
SAS - Surface Air Sampler	NP - Non-Potable Water	0 - Other:			
CP - Contact Plate					

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Report for:

Brian Gould, Brad Johnston
SCS Engineers - AZ
4222 East Thomas Road, Suite 310
Phoenix, AZ 85018

Regarding: Project: N/A; Casa Grande Airport hanger Bld. 2
EML ID: 1194793

Approved by:

Dates of Analysis:
Asbestos-EPA Method 600/R-93/116: 04-11-2014

Approved Signatory
Renee Luna

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: SCS Engineers - AZ
 C/O: Brian Gould, Brad Johnston
 Re: N/A; Casa Grande Airport hanger Bld. 2

Date of Sampling: 04-10-2014
 Date of Receipt: 04-10-2014
 Date of Report: 04-11-2014

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 1, 1 Concrete

Lab ID-Version‡: 5421589-1

Sample Layers	Asbestos Content
Light Brown Concrete	ND
Black Mastic	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 2, 2 Concrete

Lab ID-Version‡: 5421590-1

Sample Layers	Asbestos Content
Light Brown Concrete	ND
Black Mastic	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 3, 3 Concrete

Lab ID-Version‡: 5421591-1

Sample Layers	Asbestos Content
Light Brown Concrete	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

Location: 4, 4 Gasket

Lab ID-Version‡: 5421592-1

Sample Layers	Asbestos Content
Gray Gasket with Tan Surface	ND
Sample Composite Homogeneity:	Good

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 C/O: Brian Gould, Brad Johnston
 Re: N/A; Casa Grande Airport hanger Bld. 2

Date of Sampling: 04-10-2014
 Date of Receipt: 04-10-2014
 Date of Report: 04-11-2014

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 5, 5 Gasket

Lab ID-Version‡: 5421593-1

Sample Layers	Asbestos Content
Gray Gasket with Tan Surface	ND
Sample Composite Homogeneity: Good	

Location: 6, 6 Gasket

Lab ID-Version‡: 5421594-1

Sample Layers	Asbestos Content
Gray Gasket with Tan Surface	ND
Sample Composite Homogeneity: Good	

Location: 7, 7 Rubber

Lab ID-Version‡: 5421595-1

Sample Layers	Asbestos Content
Black/White Non-Fibrous Material (Rubber)	ND
Sample Composite Homogeneity: Good	

Location: 8, 8 Rubber

Lab ID-Version‡: 5421596-1

Sample Layers	Asbestos Content
Black/White Non-Fibrous Material (Rubber)	ND
Sample Composite Homogeneity: Good	

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 C/O: Brian Gould, Brad Johnston
 Re: N/A; Casa Grande Airport hanger Bld. 2

Date of Sampling: 04-10-2014
 Date of Receipt: 04-10-2014
 Date of Report: 04-11-2014

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 9, 9 Rubber

Lab ID-Version‡: 5421597-1

Sample Layers	Asbestos Content
Black/White Non-Fibrous Material (Rubber)	ND
Sample Composite Homogeneity:	Good

Location: 10, 10 Mastic

Lab ID-Version‡: 5421598-1

Sample Layers	Asbestos Content
Black Mastic with Gray Surface	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 11, 11 Mastic

Lab ID-Version‡: 5421599-1

Sample Layers	Asbestos Content
Black Mastic with Gray Surface	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 12, 12 Mastic

Lab ID-Version‡: 5421600-1

Sample Layers	Asbestos Content
Black Mastic with Gray Surface	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

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 C/O: Brian Gould, Brad Johnston
 Re: N/A; Casa Grande Airport hanger Bld. 2

Date of Sampling: 04-10-2014
 Date of Receipt: 04-10-2014
 Date of Report: 04-11-2014

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 13, 13 Foam

Lab ID-Version‡: 5421601-1

Sample Layers	Asbestos Content
Yellow Foam	ND
Sample Composite Homogeneity: Good	

Location: 14, 14 Foam

Lab ID-Version‡: 5421602-1

Sample Layers	Asbestos Content
Yellow Foam	ND
Sample Composite Homogeneity: Good	

Location: 15, 15 Foam

Lab ID-Version‡: 5421603-1

Sample Layers	Asbestos Content
Yellow Foam	ND
Sample Composite Homogeneity: Good	

Location: 16, 19 Caulk

Lab ID-Version‡: 5421604-1

Sample Layers	Asbestos Content
Semi-Transparent Caulk	ND
Sample Composite Homogeneity: Good	

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Client: SCS Engineers - AZ
 C/O: Brian Gould, Brad Johnston
 Re: N/A; Casa Grande Airport hanger Bld. 2

Date of Sampling: 04-10-2014
 Date of Receipt: 04-10-2014
 Date of Report: 04-11-2014

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 17, 20 Caulk

Lab ID-Version‡: 5421605-1

Sample Layers	Asbestos Content
Semi-Transparent Caulk	ND
Sample Composite Homogeneity:	Good

Location: 18, 21 Caulk

Lab ID-Version‡: 5421606-1

Sample Layers	Asbestos Content
Semi-Transparent Caulk	ND
Sample Composite Homogeneity:	Good

Location: 19, 22 Duct Tape

Lab ID-Version‡: 5421607-1

Sample Layers	Asbestos Content
Gray Tape	ND
Composite Non-Asbestos Content:	3% Cotton
Sample Composite Homogeneity:	Good

Location: 20, 23 Duct Tape

Lab ID-Version‡: 5421608-1

Sample Layers	Asbestos Content
Gray Tape	ND
Composite Non-Asbestos Content:	3% Cotton
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: SCS Engineers - AZ
 C/O: Brian Gould, Brad Johnston
 Re: N/A; Casa Grande Airport hanger Bld. 2

Date of Sampling: 04-10-2014
 Date of Receipt: 04-10-2014
 Date of Report: 04-11-2014

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: 21, 24 Duct Tape

Lab ID-Version‡: 5421609-1

Sample Layers	Asbestos Content
Gray Tape	ND
Composite Non-Asbestos Content:	3% Cotton
Sample Composite Homogeneity:	Good

Location: 22, 25 Paint

Lab ID-Version‡: 5421610-1

Sample Layers	Asbestos Content
Red Paint	ND
Sample Composite Homogeneity:	Good

Location: 23, 26 Paint

Lab ID-Version‡: 5421611-1

Sample Layers	Asbestos Content
Red Paint	ND
Sample Composite Homogeneity:	Good

Location: 24, 27 Paint

Lab ID-Version‡: 5421612-1

Sample Layers	Asbestos Content
Red Paint	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

CHAIN OF CUSTODY
www.EMLabPK.com



Cherry Hill, NJ: 1935 Olney Avenue, Cherry Hill, NJ 08003 * (866) 871-1984
Phoenix, AZ: 1561 West Knudsen drive, Phoenix, AZ 85027 * (602) 651-4802
San Bruno, CA: 1150 Beyhill Drive, #100, San Bruno, CA 94066 * (650) 988-6553

Weather	Fog	Rain	Snow	Wind	Clear
None	<input type="checkbox"/>				
Light	<input type="checkbox"/>				
Moderate	<input type="checkbox"/>				
Heavy	<input type="checkbox"/>				

CONTACT INFORMATION

Company: SCS Engineers
Address: 4222 E Thomas Road, Suite 310, Phoenix, Arizona
Contact: Brian Gould/Brad Johnston
Special Instructions:
Phone: 602-840-2596

TURN AROUND TIME GOES FAST

Project ID: Casa Grande Airport Hanger Bld 2
Description: Casa Grande Airport Hanger Bld 2
Project: Casa Grande Airport Hanger Bld 2
Sampling Date & Time: 4/10/14
Project Zip Code: B, Gould
PO Number: B, Gould
WH - Weekend / Holiday

2015-04-10

Sample ID	Location	Sample Type	Container	Media	Analysis
1	Cement	B	STD	N/A	
2	"	B	SFD		
3	"	B	SFD		
4	"	B	SFD		
5	"	B	SFD		
6	"	B	SFD		
7	"	B	SFD		
8	"	B	SFD		
9	"	B	SFD		
10	"	B	SFD		
11	"	B	SFD		

Sample Type	Collection	Container	Media	Analysis
BC - BioCassette™	ST - Spore Trap, Zefon, Aergonox, Biorack, ...	T - Tape	D - Dust	
AIS - Anderson	P - Potable Water	SM - Swab	SO - Soil	
SAS - Surface Air Sampler	NP - Non-Potable Water	B - Bulk		
CP - Contact Plate		Q - Other		

RECEIVED BY: [Signature]

DATE RECEIVED BY: 4/10/14

RECEIVED BY: [Signature]

DATE RECEIVED BY: 4-10-14

<input type="checkbox"/>	Fungi - Spore Trap Analysis	<input type="checkbox"/>
<input type="checkbox"/>	Spore Trap Analysis - Other particles	<input type="checkbox"/>
<input type="checkbox"/>	Direct Microscopic Exam (Qualitative)	<input type="checkbox"/>
<input type="checkbox"/>	Quantitative Spore Count Direct Exam	<input type="checkbox"/>
<input type="checkbox"/>	1-Media Surface Fungi (Genus ID + Asp. spp.)	<input type="checkbox"/>
<input type="checkbox"/>	2-Media Surface Fungi (Genus ID + Asp. spp.)	<input type="checkbox"/>
<input type="checkbox"/>	3-Media Surface Fungi (Genus ID + Asp. spp.)	<input type="checkbox"/>
<input type="checkbox"/>	Culturable Air Fungi (Genus ID + Asp. spp.)	<input type="checkbox"/>
<input type="checkbox"/>	Gram Stain & Counts (Culturable Air & Surface Bacteria)	<input type="checkbox"/>
<input type="checkbox"/>	Legionella culture	<input type="checkbox"/>
<input type="checkbox"/>	Total Coliform, E. coli (Presence/Absence)	<input type="checkbox"/>
<input type="checkbox"/>	Membrane Filtration (specify organism):	<input type="checkbox"/>
<input type="checkbox"/>	MPN Bacteria (specify organism):	<input type="checkbox"/>
<input type="checkbox"/>	QuantTray - Sewage Screen	<input type="checkbox"/>
<input type="checkbox"/>	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	<input type="checkbox"/>
<input type="checkbox"/>	Asbestos Analysis - PLM (EPA method 600/R-93-116)	<input checked="" type="checkbox"/>
<input type="checkbox"/>	PCR (specify test):	<input type="checkbox"/>
<input type="checkbox"/>	Specify Service	<input type="checkbox"/>

001194793



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Cherry Hill, NJ: 1836 Orney Avenue, Cherry Hill, NJ 08003 • (856) 871-1984
 Phoenix, AZ: 1801 West Kautzen drive, Phoenix, AZ 85022 • (602) 651-4802
 San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 • (650) 388-6555

None	<input type="checkbox"/>	Fog	<input type="checkbox"/>	Rain	<input type="checkbox"/>	Snow	<input type="checkbox"/>	Wind	<input type="checkbox"/>	Clear	<input type="checkbox"/>
Light	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Medium	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Heavy	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

CONTACT INFORMATION

Company: **SCS Engineers** Address: **4222 E Thomas Road, Suite 310, Phoenix, Arizona**
 Contact: **Brian Gould/Brad Johnston** Special Instructions:
 Phone: **602-840-2596**

PROJECT INFORMATION

Project ID:
 Project Description: **Casa Grande Airport Hanger Bid A**
 Project Zip Code:
 Sampling Date & Time: **4/10/14**
 PO Number:
 Sampled By: **B. Gould**

TURN AROUND TIME CODES (TAT)

STD - Standard (DEFAULT)
 ND - Next Business Day
 SD - Same Business Day Rush
 WH - Weekend / Holiday

Sample ID	Description	Sample Type	Container	Volume / Area	Remarks
12	Plastic	B	STD	NI	
13	Floor	B	STD		
14	"	B	STD		
15	"	B	STD		
16	caulk	B	STD		
17	"	B	STD		
18	"	B	STD		
19	"	B	STD		
20	Dust tape	B	STD		
21	"	B	STD		
22	"	B	STD		
23	"	B	STD		
24	"	B	STD		
25	Paint	B	STD		

REQUESTED SERVICES

<input type="checkbox"/>	Fungi - Spore Trap Analysis
<input type="checkbox"/>	Spore Trap Analysis - Other particles
<input type="checkbox"/>	Direct Microscopic Exam (Qualitative)
<input type="checkbox"/>	Quantitative Spore Count Direct Exam
<input type="checkbox"/>	1-Media Surface Fungi (Genus ID + Asp. spp.)
<input type="checkbox"/>	2-Media Surface Fungi (Genus ID + Asp. spp.)
<input type="checkbox"/>	3-Media Surface Fungi (Genus ID + Asp. spp.)
<input type="checkbox"/>	Culturable Air Fungi (Genus ID + Asp. spp.)
<input type="checkbox"/>	Gram Stain & Counts (Culturable Air & Surface Bacteria)
<input type="checkbox"/>	Legionella culture
<input type="checkbox"/>	Total Coliform, E. coli (Presence/Absence)
<input type="checkbox"/>	Membrane Filtration (specify organism):
<input type="checkbox"/>	MPN Bacteria (specify organism):
<input type="checkbox"/>	Quantitray - Sewage Screen
<input checked="" type="checkbox"/>	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)
<input checked="" type="checkbox"/>	Asbestos Analysis - PLM (EPA method 600/R-93-116)
<input type="checkbox"/>	PCR (specify test):
<input type="checkbox"/>	Specify Service

001194793

BC - BirdCassette™	ST - Spore Trap, Zetron	T - Tape	D - Duct	DATE/TIME
AIS - Anderson	Allergenco, Burkard ...	SW - Swab	SO - Soil	9/10/14 12:00
SAS - Surface Air Sampler	P - Portable Water	B - Bulk		
CP - Contact Plate	NP - Non-Portable Water	O - Other		

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Atomic Absorption Spectrometer (AAS) Analysis of Paint

JobNumber: 201403520

Client:

SCS ENGINEERS

4222 E THOMAS RD STE 310

PHOENIX, AZ

85018-0000

Office Phone:

(602) 840-2596

FAX:

(602) 224-0572

Samples: 2 AA **Rec:** 4/10/2014 **Method:** Modified SW 846 3050b/7420 Pb in paint by weight AA Analysis

Client Job: Casa Grande Airport Hanger 1

PO Number:

Report Date: 4/10/2014

Date Analyzed: 4/10/2014

Routing Number: -

Method and Analysis Information:

Fiberquant Internal SOP: AAPw

The received samples were analyzed for Pb (total) using "Test Methods for Evaluating Solid Waste" (SW 846, December 1996 updates). The extraction/digestion method was SW 3050b. The analytical method is "flame atomic absorption, direct aspiration", SW 7420. Briefly the procedures are as follows. The incoming paint samples are first homogenized by mixing and crushing. A sub-sample is weighed to 0.0001 gm into a 50ml centrifuge tube. To the run stream are added the quality assurance samples described below. Six mls of concentrated HNO3 and one ml of 30% H2O2 are added to each container. The tubes are capped and heated for 1 hour at 95 deg. C. After cooling, the contents of the centrifuge tube are brought up to exactly 25 mls, completing the digestion/extraction.

The sample and quality assurance extractions are then analyzed on a TJA M5 flame atomic absorption spectrometer. The wavelengths and other instrumental settings are set according to the manufacturer's recommendations, or as otherwise specified in the published method. Absorptions are recorded from sample and standard solutions. A calibration curve is fitted to at least three standard solutions, and the concentrations of the sample extracts are calculated from the curve. The ppm (ug/gm) and weight percent for each sample is calculated from the sub-sample weight, extract volume, and extract concentration.

The results from this analysis is generally compared to either the HUD guidelines, in which a sample is positive if it contains >0.5% (5000 ppm) Pb, or the Consumer Products Safety Commission (CPSC) limit, in which a paint or surface coating containing greater than 90 ppm is defined as lead-containing. The expected coefficient of variation for this method is approximately 20-30%. The results are reported to two significant figures. The Sample Reporting Limit (RL) listed below is twice the Sample Detection Limit, which is calculated for each sample from the experimentally determined Method Detection Limit. The limit of reliable quantitation is generally regarded as five to ten times the limit of detection. Therefore, samples smaller than 0.1 gm may give results too near the CPSC standard to be reliable. Problems in analysis or other information is provided in the "Analytical Notes" below. Blanks, if analyzed, are treated the same as samples and are not used for correcting non-blank results.

The following on-going quality assurance program was followed to ensure reproducible and dependable results: All analysts are degreed chemists trained extensively in-house for at least six months prior to un-supervised runs. Blank matrix samples are analyzed at a rate of 5% (at least one per run). Reference standards are analyzed at a rate of 5% (at least one per run), and compared to statistical records via control charts. Spiked matrix samples are analyzed at a rate of 5% (at least one per run), and compared to statistical records via control charts. Duplicate samples are analyzed at a rate of 5% (at least one per run), and compared to statistical records via control charts. For each instrumental run, the spectrometer is checked for sensitivity and stability. The calibration standards are made fresh weekly, and checked each run against a calibration verification standard from another source. All calculations are performed twice - once in a calibration spreadsheet, and once during the report generation, and also checked by hand. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. Fiberquant participates in the Environmental Lead Proficiency Analytical Testing (ELPAT) program, is accredited by AIHA-LAP, LLC for environmental lead in paint (Lab # 101593), and is recognized by the National Lead Laboratory Accreditation Program (NLLAP) for the analysis of Pb in paint. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Client COC had samples marked as 25 and 26, but the submitted sample bags were marked 26 and 27. Per client request, samples were renamed 26 and 27 as listed on the sample bags.

Calibration Curve:

Pb

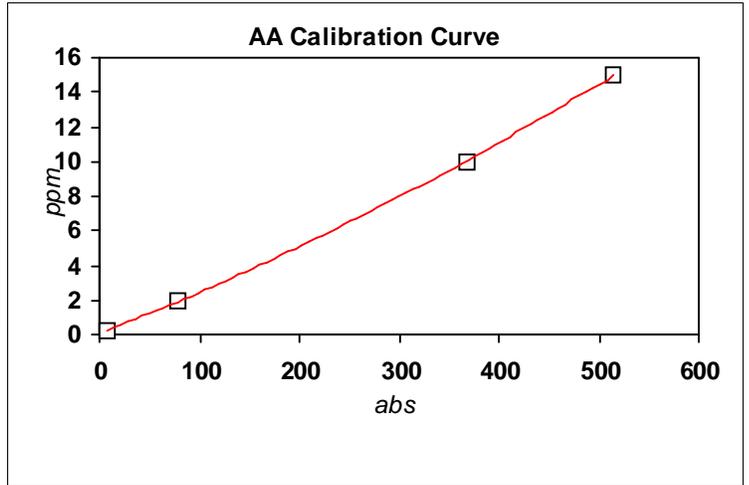
Run # 9877

Instrument: M5-2

4/10/2014

Standards:	ppm	avg. mAbs.
1	0.2	8
2	2	79
3	10	367
4	15	515

ax2 0.00001209
 bx 0.02274608
 c 0.06231551
 R2 0.99994405



Analysis Results:

Job Number: 201403520 AApw

Lab Number	Client Number	Date	Condition	Weight (gm)	ug/ml	ml	Dil	Analyte	wt %	ppm	RL(ppm)
2014-03520- 1	26		acceptable	0.1574	0.54531	25	1	Pb	0.0087	87	32
2014-03520- 2	27		acceptable	0.1819	0.92047	25	1	Pb	0.013	130	27

Martin Esquer

Analyst: MARTIN A. ESQUER

Printed: 10-Apr-14

Original Print Date: 10-Apr-14

Larry S. Pierce

Larry S. Pierce, Approved Accreditation Signatory

RUSH

FIBERQUANT ANALYTICAL SERVICES

Fiberquant Analytical Services 5025 S. 33rd St.
Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602-276-4558;
info@fiberquant.com

Analysis Request/Chain-of-Custody Form

Submitted by (Company) <u>SCS</u>	
Address <u>4222 E Thomas Rd Suite 310</u>	
City, State, Zip Code <u>Phoenix AZ 85018</u>	
Phone <u>602 840-2596</u>	FAX
Email	

Invoice to (Company)	
Address	
City, State, Zip Code	
Phone	FAX

Contact (print) <u>Brad Gould / Brad Johnston</u>
Sampled by (signature) <u>[Signature]</u>
Job Number or Project Name <u>Casa Grande Airport Hangar 1</u>
PO Number

<Analysis Method Requested> ONLY ONE METHOD per COC				Turn-around-time (circle one)			
				Rush	Norm	Ext.	
Asbestos by PLM	Method >	Improved	Interim	Urgent Rush <3 hrs	<6 hrs	1-3 days	15- 30 days
	Analyze >	All	ATPF				
	If ATPF then >	by Layer	by Sample				
	Single Layer Protocol >	Yes	No				
Fibers by PCM	Method >	7400 (Area)	ORM (Personal)	<4 hrs	24 hrs	-	
Asbestos by TEM	in Air >	AHERA	Mod. AHERA	<6 hrs	24 hrs	3-5 days	
	in Water* >	Water	Sludge	1-2 days	3-5 days	N/A	
	in Bulk (Annex2) >	Chatfield	Fut Quant.	3-5 days	5-10 days	N/A	
	in Dust >	ASTM D5755-03		3-5 days	5-10 days	N/A	
Pb by FLAA	Analyte >	Pb	Other	<6 hrs	2-3 days	N/A	
	Matrix >	Filter >	MCE				FG
		Paint >	by Area (mg/cm ²) by Weight (ppm)				
		Soil >					
		Wipe >					
Initial here certifying wipes used are ASTM E1792 compliant							
Fungi	Air Sample >	Zefon	Aker	Other	<6 hrs	1-2 days	N/A
	Bulk >	Sample	Swab				
	Tape Lift >	Qualitative (% & type)					
		Quantitative (type/cm ²)					
Soot	ASTM D6602-03b	Optical		<6 hrs	1-2 days	N/A	
		Optical & TEM		1-2 days	3-5 days	N/A	
Other				Call	Call		

Sample # (1 per line)	Description/Location	Sample Date	Sample Time	Vol. or Area
1) <u>25</u>	<u>Paint</u>	<u>4/10/14</u>		
2) <u>26</u>	<u>"</u>	<u>4/10/14</u>		
3)				
4)				
5)				
6)				
7)				
8)				
9)				
10)				
11)				
12)				
13)				
14)				
15)				
16)				
17)				
18)				
19)				
20)				

1) Relinquished by: <u>[Signature]</u>	Date: <u>4/10/14</u>	Time: <u>1340</u>	3) Relinquished by:	Date:	Time:
2) Received by: <u>[Signature]</u>	Date: <u>4-10-14</u>	Time: <u>1340</u>	4) Received by:	Date:	Time:
* TEM Water Sampler's name Required by State of Arizona	Print Name	Fiberquant assigned Job Number >	<u>201403590</u>		
Review of Analysis Request (Initials): <u>[Signature]</u>			Page <u>1</u> of <u>1</u>		

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.



Atomic Absorption Spectrometer (AAS) Analysis of Paint

JobNumber: 201403521

Client:

SCS ENGINEERS

4222 E THOMAS RD STE 310

PHOENIX, AZ

85018-0000

Office Phone:

(602) 840-2596

FAX:

(602) 224-0572

Samples: 2 AA **Rec:** 4/10/2014 **Method:** Modified SW 846 3050b/7420 Pb in paint by weight AA Analysis

Client Job: Casa Grande Airport Hanger #2

PO Number:

Report Date: 4/10/2014

Date Analyzed: 4/10/2014

Routing Number: -

Method and Analysis Information:

Fiberquant Internal SOP: AApw

The received samples were analyzed for Pb (total) using "Test Methods for Evaluating Solid Waste" (SW 846, December 1996 updates). The extraction/digestion method was SW 3050b. The analytical method is "flame atomic absorption, direct aspiration", SW 7420. Briefly the procedures are as follows. The incoming paint samples are first homogenized by mixing and crushing. A sub-sample is weighed to 0.0001 gm into a 50ml centrifuge tube. To the run stream are added the quality assurance samples described below. Six mls of concentrated HNO3 and one ml of 30% H2O2 are added to each container. The tubes are capped and heated for 1 hour at 95 deg. C. After cooling, the contents of the centrifuge tube are brought up to exactly 25 mls, completing the digestion/extraction.

The sample and quality assurance extractions are then analyzed on a TJA M5 flame atomic absorption spectrometer. The wavelengths and other instrumental settings are set according to the manufacturer's recommendations, or as otherwise specified in the published method. Absorptions are recorded from sample and standard solutions. A calibration curve is fitted to at least three standard solutions, and the concentrations of the sample extracts are calculated from the curve. The ppm (ug/gm) and weight percent for each sample is calculated from the sub-sample weight, extract volume, and extract concentration.

The results from this analysis is generally compared to either the HUD guidelines, in which a sample is positive if it contains >0.5% (5000 ppm) Pb, or the Consumer Products Safety Commission (CPSC) limit, in which a paint or surface coating containing greater than 90 ppm is defined as lead-containing. The expected coefficient of variation for this method is approximately 20-30%. The results are reported to two significant figures. The Sample Reporting Limit (RL) listed below is twice the Sample Detection Limit, which is calculated for each sample from the experimentally determined Method Detection Limit. The limit of reliable quantitation is generally regarded as five to ten times the limit of detection. Therefore, samples smaller than 0.1 gm may give results too near the CPSC standard to be reliable. Problems in analysis or other information is provided in the "Analytical Notes" below. Blanks, if analyzed, are treated the same as samples and are not used for correcting non-blank results.

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Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Calibration Curve:

Pb

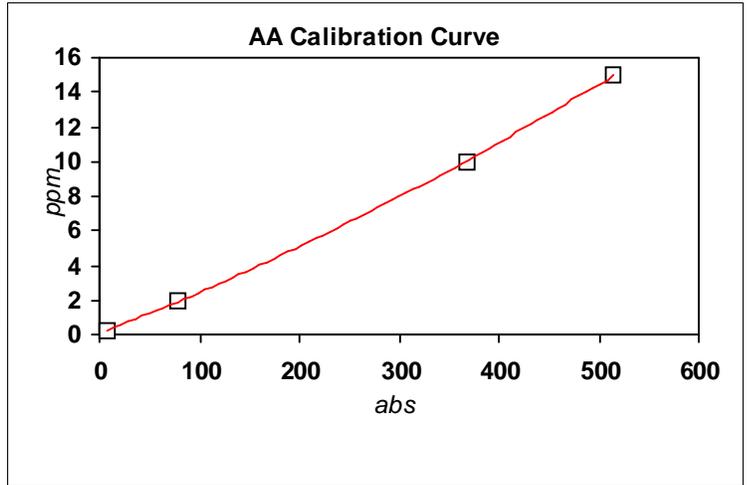
Run # 9877

Instrument: M5-2

4/10/2014

Standards:	ppm	avg. mAbs.
1	0.2	8
2	2	79
3	10	367
4	15	515

ax2 0.00001209
bx 0.02274608
c 0.06231551
R2 0.99994405



Analysis Results:

Job Number: 201403521

AApw

Lab Number	Client Number	Date	Condition	Weight (gm)	ug/ml	ml	Dil	Analyte	wt %	ppm	RL(ppm)
2014-03521- 1	28		acceptable	0.1536	0.68527	25	1	Pb	0.011	110	33
2014-03521- 2	29		acceptable	0.6551	4.79319	25	1	Pb	0.018	180	7.6

Analyst: MARTIN A. ESQUER

Printed: 10-Apr-14

Original Print Date: 10-Apr-14

Larry S. Pierce, Approved Accreditation Signatory

RUSH



Fiberquant Analytical Services 5025 S. 33rd St.
 Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602-276-4558;
 info@fiberquant.com

Analysis Request/Chain-of-Custody Form

Submitted by (Company) <i>SCS</i>	
Address <i>4222 E Thomas Rd Suite 310</i>	
City, State, Zip Code <i>Phoenix AZ 85018</i>	
Phone <i>602 840-2596</i>	FAX
Email	

Invoice to (Company)	
Address	
City, State, Zip Code	
Phone	FAX

Contact (print) <i>Brian Gould / Brad Johnston</i>
Sampled by (signature) <i>[Signature]</i>
Job Number or Project Name <i>Casa Grande Airport Hanger #2</i>
PO Number

<Analysis Method Requested> ONLY ONE METHOD per COC			Turn-around-time (circle one)			
			Rush	Norm	Ext.	
Asbestos by PLM	Method >	Improved Interim	Urgent Rush <3 hrs	<6 hrs	1-3 days	15-30 days
	Analyze >	All ATPF				
	If ATPF then >	by Layer by Sample				
	Single Layer Protocol >	Yes No				
Fibers by PCM	Method >	7400 (Area) ORM (Personal)	<4 hrs	24 hrs		
Asbestos by TEM	in Air >	AHERA Mod. AHERA	1-2 days	3-5 days	N/A	
	in Water* >	Water Sludge				
	in Bulk (Annex2) >	Chatfield Full Quant.				
	in Dust >	ASTM D5755-03				
Pb by FLAA	Analyte >	Pb Other	6 hrs	2-3 days	N/A	
	Matrix >	Filter >				MCE FG
		Paint >				by Area (mg/cm ²) by Weight (ppm)
		Soil >				
		Wipe >				
Initial here certifying wipes used are ASTM E1792 compliant						
Fungi	Air Sample >	Zefon Aller Other	<6 hrs	1-2 days	N/A	
	Bulk >	Sample Swab				
	Tape Lift >	Qualitative (% & type)				
		Quantitative (type/cm ²)				
Soot	ASTM D6602-03b	Optical	<6 hrs	1-2 days	N/A	
		Optical & TEM	1-2 days	3-5 days	N/A	
Other			Call	Call		

Sample # (1 per line)	Description/Location	Sample Date	Sample Time	Vol. or Area
1) 28	Paint	4/10/14		
2) 29	"	4/10/14		
3)				
4)				
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1) Relinquished by: <i>[Signature]</i>	Date: 4/10/14	Time: 1340	3) Relinquished by:	Date:	Time:
2) Received by: <i>[Signature]</i>	Date: 4/10/14	Time: 1340	4) Received by:	Date:	Time:
* TEM Water: Sampler's name Required by State of Arizona	Print Name	Fiberquant assigned Job Number >	201403521 Page 1 of 1		
Review of Analysis Request (Initials): <i>[Signature]</i>					

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.

APPENDIX D
NESHAP NOTIFICATION INFORMATION

NESHAP NOTIFICATION INFORMATION

CITY OF CASA GRANDE MUNICIPAL AIRPORT HANGARS 1 AND 2 CASA GRANDE, ARIZONA

Project Information

Property Owner City of Casa Grande
Laboratory EMLab P&K
Number of Samples 45
Inspection Date 04/10/14
Dates Analyzed 04/11/14
Inspector
Certification
Name: Brian Gould
Training Provider: The Asbestos Institute
Certificate Number: F8982
Expiration: 1/10/2015

Asbestos was not detected in the building materials sampled.