

Attachment C

Standard Construction Agreement

**CONSTRUCTION AGREEMENT
BY AND BETWEEN
THE SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY
AND
UNIVERSAL COATINGS, INC.
FOR
MULTIPLE ROOF REPLACEMENTS,
PROJECT CC23-104**

THIS CONSTRUCTION AGREEMENT (the "Agreement") is made and entered into by and between the Southern California Logistics Airport Authority, a joint powers authority located in the County of San Bernardino, State of California, hereinafter referred to as "SCLAA", and **Universal Coatings, Inc., a Nevada corporation** hereinafter referred to as the "Contractor". The SCLAA and the Contractor are sometimes hereinafter referred to as a "Party" and collectively referred to as the "Parties."

RECITALS:

WHEREAS, the SCLAA requires **Multiple Roof Replacement, Project CC23-104** (the "Project"); and

WHEREAS, in light of the facts set forth above, the SCLAA desires to retain Contractor in connection with **Multiple Roof Replacements**; and

NOW, THEREFORE, IN CONSIDERATION OF THE COVENANTS, CONDITIONS, AND PROMISES CONTAINED HEREIN AND FOR SUCH OTHER GOOD AND VALUABLE CONSIDERATION, THE PARTIES HERETO AGREE AS FOLLOWS:

Section 1. **RECITALS**

The Recitals set forth above are true and correct and are hereby incorporated into this Agreement by this reference, as though set forth herein.

Section 2. **TERM OF AGREEMENT**

This Agreement shall commence on the date specified on the Notice to Proceed (the "Commencement Date") and shall terminate upon completion of the Project, **Forty-five (45) Working Days** after Commencement Date (the "Termination Date"), unless sooner terminated in accordance with the provisions of this Agreement (the "Term"). From and after the Termination Date, and upon subsequent Agreement by the Parties, this Agreement may continue on a month-to-month basis until terminated pursuant to Section 3 below.

Section 3. **TERMINATION OR SUSPENSION**

a. This Agreement may be terminated or suspended without cause by either Party at any time, provided that the Party initiating the termination provides the other Party at least thirty (30) days advance written notice of such termination or suspension. In the event of such termination, the SCLAA shall only be liable for payment under the payment provisions of this

Agreement for satisfactory work rendered or supplies actually furnished prior to the effective date of termination.

b. This Agreement may be terminated or suspended with cause by either Party at any time, provided that the Party initiating termination provides the other Party at least ten (10) days advance written notice of such termination or suspension. In the event of such termination, the SCLAA shall only be liable for payment under the payment provisions of this Agreement for satisfactory work rendered or supplies actually furnished prior to the effective date of termination.

Section 4. CONTRACT DOCUMENTS; PRIORITY

a. Contract Documents. The Contract Documents consist of the following documents, all of which are either attached hereto as exhibits or are incorporated herein by this reference. Said Contract Documents are intended to be correlative and constitute Contractor's performance obligations:

1. This Agreement.
2. Exhibits A & B.
3. Notice Inviting Bids for the Project.
4. Special Provisions.
5. Faithful Performance & Payment Bonds
6. Non-Collusion Declaration.
7. Guaranty.

b. Interpretation. In the event of any conflict between any of the Contract Documents, the document highest in the order of precedence (from highest to lowest), as set forth in Subsection 4.a above shall control.

Section 5. CONTRACTOR'S OBLIGATIONS

Contractor shall complete the Project as specifically set forth in the Contract Documents. Contractor shall furnish, at its own cost and expense, all labor, services, material, tools, equipment, supplies, transportation, and any other items and facilities necessary therefore, as provided in the Contract Documents.

Section 6. COMPENSATION

The Contractor agrees to receive and accept the following amount, not to exceed **Seven Hundred Sixty-eight Thousand and 00/100 Dollars (\$768,000.00)**, as full compensation for furnishing; all materials, doing all the work contemplated and embraced in this contract, all loss or damage arising out of the nature of the work aforesaid, the action of the elements, any unforeseen difficulties or obstructions which may arise or be encountered in the execution of the work until its acceptance by the SCLAA, and for all risks of every description connected with the work, all expenses incurred by or in consequence of the suspension or discontinuance of work well and faithfully completing the whole work, thereof, according to the requirements of the Contract Documents and to the satisfaction of **C. Eric Ray, Airport Director**, or his designee, to wit: See **Exhibit "A", Scope of Work.**

Section 7. BID PROPOSAL PRICE SCHEDULE

The SCLAA shall pay Contractor as provided in the Bid Proposal Price Schedule, attached

hereto as **Exhibit "B"**, and incorporated herein by this reference as though set forth in full, subject to approval of the SCLAA, when applicable.

Section 8. PREVAILING WAGES

a. In accordance with the provisions of the California Labor Code (1720,1770-1776, 1810, 1813 and 1815), the State Director of Industrial Relations has determined the general prevailing rates of per diem wages in the locality where the Project is to be done. Copies of the updated Wage Determination rates are available from the State of California via the internet at www.dir.ca.gov. Additionally, copies of the prevailing rate of per diem wages are on file at the City of Victorville Finance Department and shall be made available for review to any interested party on request. Notwithstanding anything in the Contract Documents to the contrary, Contractor and all subcontractors shall pay not less than said specified State of California rates to all workers employed by them in the execution of the work contemplated by this Contract. Contractor shall be responsible for using the correct and current prevailing wage rates.

b. **AB219 (as applicable)** adds Section 1720.9 to the Labor Code, the hauling and delivery of ready-mixed concrete to carry out a public works contract, with respect to contracts involving state agency or any political subdivision of the state. Section 1720.9 defines the term "ready-mixed" concrete and specifies that the rate of pay shall be the current prevailing wage "for the geographical area in which the factory or batching plant is located" as determined by the DIR. The statute also requires a written agreement between the party hauling or delivering the ready-mixed concrete and the party that engaged its services. Nothing in Section 1720.9 shall cause any company to be treated as a contractor or subcontractor for any purpose other than the application of this chapter of the Labor Code.

c. The delivery company shall provide certified payroll records under Labor Code section 1776(a) to the party that engaged its services and to the general contractor within five working days after the employee has been paid, accompanied by a written time record within five working days after the employee has been paid, accompanied by a written time record. The time record must be certified by each driver for the performance of job duties.

d. Contractor shall be solely responsible for using the correct wage decision or determination and performing accordingly. An error on the part of any awarding body does not relieve the Contractor from the responsibility for payment of the correct State prevailing wage and compliance with the maintenance and inspection of payroll records, posting of prevailing wage rates at work site, employment of apprentices, and other requirements of California Labor Code Section 1720, et seq.; California Code of Regulations, Title 8, Section 16000 et seq.; and all other applicable State labor laws. Contractor further acknowledges and agrees that it will be independently responsible for reviewing the applicable laws and regulations and effectuating compliance with those laws. Contractor will require the same of all its subcontractors.

NOTE: Copies of the Certified Payrolls, Proof of Payroll submissions and appropriate Lien Releases are required with each invoice to SCLAA. Payment of the invoice may be delayed when Payroll related documents and/or lien releases are not included with the invoice. An error on the part on any awarding body does not relieve the Contractor from responsibility for payment of the prevailing wage of per diem wages and penalties pursuant to Labor Code (1770 - 1776).

Section 9.**WORKERS' COMPENSATION INSURANCE**

Contractor shall procure and maintain, at its own expense, during the Term of this Agreement, workers' compensation insurance, providing coverage as required by the California State Workers' Compensation Law. If any class of employees employed by Contractor is not protected by the California State Workers' Compensation Law, Contractor shall provide adequate insurance for the protection of such employees to the satisfaction of the SCLAA.

In conformance with current statutory requirements of Section 1860 et seq., of the Labor Code of the State of California, the undersigned confirms the following as their certification:

I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions before commencing the performance of the work of this contract.

Section 10.**NOTICE TO PROCEED**

No work, service, material, or equipment shall be performed or furnished under this Contract unless and until a Notice to Proceed has been given to the Contractor by the SCLAA. Contractor shall commence work pursuant to the Contract Documents as directed by the SCLAA in the Notice to Proceed, and to diligently execute the same to completion within the time limits set forth in the Contract Documents.

Section 11.**COMPLIANCE WITH LAWS**

Contractor shall comply with all local, state, and federal laws and regulations applicable to the performance of the work required by the Contract Documents, including any rule, regulation, or bylaw governing the conduct or performance of Contractor, its employees, officers, board members, agents, independent contractors, and subcontractors. Unless otherwise specified in the Contract Documents, all required permits and licenses shall be held or obtained by the Contractor at its sole expense.

Section 12.**COMMERCIAL GENERAL, AUTOMOBILE AND POLLUTION
LIABILITY INSURANCE**

Contractor shall procure and maintain at its own expense, during the term of this Agreement, commercial general liability insurance, of not less than One Million Dollars (\$1,000,000) per occurrence, and Two Million Dollars (\$2,000,000) in the aggregate, for bodily injury, personal injury, death, loss, or damage resulting from the wrongful or negligent acts by the Contractor or its officers, employees, servants, volunteers, and agents and independent contractors.

Contractor shall further procure and maintain, at its own expense, during the Term of this Agreement, commercial vehicle liability insurance covering personal injury and property damage, of not less than One Million Dollars (\$1,000,000) Combined Single Limit, covering any vehicle(s) utilized by Contractor or its officers, employees, servants, volunteers, or agents and independent contractors in performing the services required by this Agreement.

If the project entails the handling or use of hazardous material, Contractor shall further procure and maintain, at its own expense, during the Term of this Agreement, pollution liability insurance of not less than One Million Dollars (\$1,000,000).

Section 13.**COURSE OF CONSTRUCTION/BUILDER'S RISK**

Contractor, and or any of its subcontractors, suppliers, vendors, employees, or person whom it performing any work under this Agreement shall purchase, and maintain insurance to the full contract and insurable value thereof commonly referred to as a Course of Construction, Builders' Risk, or an Inland Marine policy that offers "Installation" coverage for all materials, supplies, equipment, and property obtained by, or for Contractor, which is to become part of the work while such equipment and property is stored at the jobsite, at temporary locations, or while in transit to the project from such temporary locations. **Contractor, and or any of its subcontractors, suppliers, vendors, employees, or person whom is performing any work under this Agreement shall** also be responsible for insuring their owned, leased/rented or borrowed equipment. Insurance should also include a Loss Payee, and a Waiver of Subrogation Endorsement(s) in favor of SCLAA and the City of Victorville.

Section 14.**ADDITIONAL INSURED**

Notwithstanding any inconsistent statement in any required insurance policies or any subsequent endorsements attached thereto, the protection offered by all policies, except for Workers' Compensation coverage, shall bear an endorsement whereby it is provided that, the SCLAA, the City of Victorville and their officers, employees, servants, volunteers, and agents and independent contractors, including, without limitation, the Authority Legal Counsel, are named as Additional Insureds.

Section 15.**WAIVER OF SUBROGATION RIGHTS**

Contractor shall require the carriers of all required insurance policies to waive all rights of subrogation against the SCLAA, the City of Victorville and their officers, volunteers, employees, contractors, and subcontractors. Each policy of insurance shall be endorsed to reflect such waiver.

Section 16.**PROOF OF INSURANCE COVERAGE; REQUIRED PRIOR TO COMMENCEMENT OF SERVICES**

a. Contractor shall secure from a good and responsible company or companies authorized to do insurance business in the State of California the policies of insurance required by this Agreement and furnish to the Authority Secretary certificates of said insurance at least one (1) day prior to the commencement of any work to be performed under this Agreement.

b. The certificates of insurance shall bear an endorsement whereby it is provided that, in the event of cancellation or amendment of any required insurance policy for any reason whatsoever, the SCLAA shall be notified by mail, postage prepaid, not less than thirty (30) days before the cancellation or amendment is effective. In the case of non-payment, ten (10) days' advance written notice shall be given.

c. The certificates of insurance shall bear an endorsement whereby it is provided that the respective insurance policy shall not be terminated or expire without first providing thirty (30) days written notice to the SCLAA of such termination or expiration.

d. The certificates of insurance shall indicate that the respective insurance policy will be maintained throughout the Term of this Agreement.

e. The Commercial General Liability and vehicle liability policies shall be endorsed to contain the following provision: "For any claims related to this Contract, Contractor's service coverage shall be primary with respect to the SCLAA. Any insurance maintained by the SCLAA shall be in excess of Contractor's insurance and shall not contribute to it."

Section 17. TIME OF THE ESSENCE

Time is of the essence in the performance of this Agreement.

Section 18. INDEMNIFICATION

Notwithstanding the limits of any insurance, Contractor shall indemnify the SCLAA, its officials, officers, agents, volunteers and employees against, and will hold and save them and each of them harmless from, any and all actions, suits, claims, damages to persons or property, losses, costs, penalties, obligations, errors, omissions or liabilities, (herein "claims or liabilities") that may be asserted or claimed by any person, firm or entity arising or alleged to arise out of or in connection with the negligent performance of the work, operations or activities of Contractor, its agents, employees, subcontractors, or invitees, provided for herein, or arising or alleged to arise from the negligent acts or omissions of Contractor hereunder, or arising or alleged to arise from Contractor's negligent performance of or failure to perform any term, provision, covenant or condition of this Agreement, but excluding such claims or liabilities or portion of such claims or liabilities arising or alleged to arise from the negligence or willful misconduct of the SCLAA its officials, officers, agents, volunteers or employees, and in connection therewith:

a. Contractor will defend any action or actions filed in connection with any of said claims or liabilities and will pay all costs and expenses, including legal costs and attorneys' fees incurred in connection therewith;

b. Contractor will promptly pay any judgment rendered against the SCLAA, its officials, officers, agents or employees for any such claims or liabilities arising or alleged to arise out of or in connection with Contractor's (or its agents', employees', subcontractors' or invitees') negligent performance of or failure to perform such work, operations or activities hereunder; and Contractor agrees to save and hold the SCLAA, its officials, volunteers, officers, agents, and employees harmless there from;

c. In the event the SCLAA, its officials, officers, agents, volunteers or employees is made a Party to any action or proceeding filed or prosecuted against Contractor for such damages or other claims arising or alleged to arise out of or in connection with the negligent performance of or failure to perform the work, operation or activities of Contractor hereunder, Contractor shall pay to the SCLAA, its officials, volunteers officers, agents or employees, any and all costs and expenses incurred by the SCLAA, its officers, agents or employees in such action or proceeding, including but not limited to, legal costs and attorneys' fees for counsel acceptable to the SCLAA;

d. Contractor's duty to defend and indemnify as set out in this Section shall include any claims, liabilities, obligations, losses, demands, actions, penalties, suits, costs, expenses or damages or injury to persons or property arising or alleged to arise from, in connection with, as a consequence of or pursuant to any state or federal law or regulation regarding hazardous substances, including but not limited to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), Comprehensive Environmental Response, Compensation and Liability Act of 1980

("CERCLA"), Resource Conservation and Recovery Act of 1976 ("RCRA"), the Hazardous and Solid Waste Amendments of 1984, the Hazardous Material Transportation Act, the Toxic Substances control Act, the Clean Air Act, the Clean Water Act, the California Hazardous Substance Account Act, the California Hazardous Waste Control Law or the Porter-Cologne Water Quality Control Act, as any of those statutes may be amended from time to time;

The Contractor's indemnification obligations pursuant to this Section shall survive the termination of this Agreement. Contractor shall require the same indemnification from all subcontractors.

Section 19. **REPORTS**

Upon request by **C. Eric Ray, Airport Director**, or his designee, Contractor shall prepare and submit reports concerning Contractor's performance of the work required by this Agreement.

Section 20. **RECORDS**

a. Contractor shall keep such books and records as shall be necessary to perform the services required by this Agreement and enable **C. Eric Ray, Airport Director**, or his designee, to evaluate the cost and the performance of such services.

b. Books and records pertaining to costs shall be kept and prepared in accordance with generally accepted accounting principles.

c. **C. Eric Ray, Airport Director**, or his designee, shall have full and free access to such books and records at all reasonable times, including the right to inspect, copy, audit, and make records and transcripts from such records.

d. Records and supporting documents pertaining to the use of funds paid to Contractor hereunder shall be retained by Contractor and made available to **C. Eric Ray, Airport Director**, or his designee, for purposes of performing an audit for a period of five (5) years from the date of termination of this Agreement.

Section 21. **MODIFICATIONS AND AMENDMENTS**

This Agreement may be modified or amended only by a written instrument signed by both Parties.

Section 22. **ENTIRE AGREEMENT**

a. This Agreement supersedes any and all prior or contemporaneous Agreements, either oral or written, between the SCLAA and Contractor with respect to the subject matter of this Agreement.

b. The Contract Documents contain all of the covenants and Agreements between the Parties with respect to the subject matter herein, and each Party acknowledges that no representations, inducements, promises, or Agreements have been made by or on behalf of any Party, except those covenants and Agreements in this Agreement and the Contract Documents.

c. No Agreement, statement, or promise with respect to the subject matter of the Contract Documents, which is not contained in the Contract Documents, or in a valid modification or amendment to the Contract Documents, shall be valid or binding on either Party.

Section 23. **AMBIGUITIES**

This Agreement is in all respects intended by each Party hereto to be deemed and construed to have been jointly prepared by the Parties and the Parties hereby expressly agree that any uncertainty or ambiguity existing herein shall not be interpreted against either of them. Except as expressly limited by this paragraph, all of the applicable rules of interpretation of contract shall govern the interpretation of any uncertainty or ambiguity of this Agreement.

Notwithstanding the foregoing, the Parties agree that **Exhibit "B"** is attached hereto for reference purposes and to the extent there are any ambiguities, inconsistencies or conflicts between the terms of this Construction Agreement and **Exhibit "B"**, the terms of this Construction Agreement shall control and nothing set forth in **Exhibit "B"** shall be deemed to supersede any of the provisions of this Construction Agreement.

Section 24. **NOTICES**

a. Any notice to be provided pursuant to this Agreement shall be in writing, and all such notices shall be delivered by personal service or by deposit in the United States mail, certified or registered, return receipt requested, with postage prepaid, and addressed to the Parties as follows:

To the SCLAA:	C. Eric Ray, Airport Director Southern California Logistics Airport Authority 18374 Phantom West Victorville, CA 92394
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To Contractor:	Kim Nulick, Executive Vice President Universal Coatings, Inc. 5191 E. Dakota Avenue Fresno, CA 93727
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b. Notices, payments, and other documents shall be deemed delivered upon receipt by personal service or as of the second (2nd) day after deposit in the United States mail.

Section 25. **NON-LIABILITY OF THE SCLAA OFFICERS AND EMPLOYEES**

No officer or employee of the SCLAA shall be personally liable to Contractor, or any successor in interest, in the event of any default or breach by the SCLAA or for any amount, which may become due to Contractor or to its successor(s), or for any breach of any obligation of the terms of this Agreement.

Section 26. **REVIEW BY ATTORNEYS**

Each Party hereto has had its attorneys review this Agreement and all related documents. Each Party hereto has consulted with its attorneys and has negotiated the terms of this Agreement based on such consultation.

Section 27. **CARE OF WORK**

Contractor must adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and other components to prevent losses or damages, and will be responsible for all damages, to persons or property, until acceptance of the work by the SCLAA, except those losses or damages as may be caused by the SCLAA's own negligence. The performance of the work by Contractor or the payment of money by the SCLAA shall not relieve Contractor from any obligation to correct any incomplete, inaccurate, or defective work at no further cost to the SCLAA, when such inaccuracies are due to the negligence of Contractor.

Section 28. **CAPTIONS AND HEADINGS**

The captions and headings contained in this Agreement are provided for identification purposes only and shall not be interpreted to limit or define the content of the provisions described under the respective caption or heading.

Section 29. **SUCCESSORS, HEIRS, AND ASSIGNS**

Except as otherwise expressly provided herein, this Agreement shall be binding upon the successors, endorsees, assigns, heirs, and personal representatives of each of the Parties to this Agreement and, likewise, shall inure to the benefit of the successors, endorsees, assigns, heirs, and personal representatives of each of the Parties. This Agreement may not be assigned or transferred by Contractor without the concurrence of the surety and express written consent of the SCLAA, which may be withheld in the SCLAA's sole discretion since the experience and qualifications of Contractor were material considerations for this Agreement.

Section 30. **GENDER; PLURAL**

In this Agreement, unless the context clearly requires otherwise, the masculine, feminine and neuter genders and the singular and the plural shall include one another.

Section 31. **SEVERABILITY**

If any one or more of the sentences, clauses, paragraphs, or sections contained herein is declared invalid, void, or unenforceable by a court of competent jurisdiction, the same shall be deemed severable from the remainder of this Agreement and shall not affect, impair, or invalidate any of the remaining sentences, clauses, paragraphs, or sections contained herein.

Section 32. **GOVERNING LAW**

The validity of this Agreement and any of its terms or provisions, as well as the rights and duties of the Parties under this Agreement, shall be construed pursuant to and in accordance with California law.

Section 33. **CUMULATIVE REMEDIES**

Except with respect to rights and remedies expressly declared to be exclusive in this Agreement, the rights and remedies of the Parties are cumulative and the exercise by either Party of one or more of such rights or remedies shall not preclude the exercise by it, at the

same or different times, of any other rights or remedies for the same default of any other default by the other Party.

Section 34. **VENUE**

All proceedings involving disputes over the terms, provisions, covenants, or conditions contained in this Agreement and all proceedings involving any enforcement action related to this Agreement shall be initiated and conducted in the applicable court or forum in San Bernardino County, California.

Section 35. **ATTORNEY'S FEES**

Should any litigation, specifically including but not limited to, arbitration and other non-judicial resolution of disputes be commenced between the Parties to this Agreement concerning this Agreement or the rights and duties of either in relation thereto, the Parties prevailing in such litigation or other proceeding shall be entitled, in addition to such other relief as may be granted, to a reasonable sum as and for attorney fees in such litigation where the proceeding which, if not agreed upon by the Parties, shall be determined by the court or other entity in which such litigation or other proceeding is brought.

Section 36. **EFFECTIVENESS OF AGREEMENT**

This Agreement shall not be binding upon the SCLAA, until signed by the authorized representative(s) of Consultant, approved by the Authority Risk Manager, and executed by the authorized the SCLAA personnel or Authority Chairman.

Section 37. **REPRESENTATIONS OF PARTIES AND PERSONS
EXECUTING AGREEMENT**

a. Each of the Parties to this Agreement hereby represents that all necessary and appropriate actions of their governing bodies have been taken to make this Agreement a binding obligation of each of the Parties hereto.

b. The persons executing this Agreement warrant that they are duly authorized to execute this Agreement on behalf of and bind the Parties each purports to represent.

Section 38. **COUNTERPARTS**

This Agreement may be executed by the Parties in counterparts, and when executed by each of the Parties, each counterpart shall be deemed to be a part of this Agreement.

(END OF THIS PAGE)

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed as of the dates written below.

**SOUTHERN CALIFORNIA LOGISTICS
AIRPORT AUTHORITY**

By: _____
**Debra Jones,
Authority Chairman**

Dated: _____

UNIVERSAL COATINGS, INC.

By: _____
**Kim Nulick,
Executive Vice President**

Dated: _____

ATTEST

By: _____
**Jennifer Thompson,
Authority Secretary**

Dated: _____

**SOUTHERN CALIFORNIA LOGISTICS
AIRPORT AUTHORITY**

By: _____
**Sandra Bostick,
Authority Risk Manager**

Dated: _____

APPROVED AS TO STANDARD FORM

By: _____
**Andre de Bortnowsky,
Authority Legal Counsel**

Dated: _____

EXHIBIT A

SCOPE OF WORK

SCLAA agrees to engage Contractor and Contractor agrees to furnish all necessary labor, tools, materials, and equipment for and to do the Work for the Project. The Work shall be performed in accordance with: (i) Scope of Work, Specifications and applicable Addenda (as generally described in the Request for Bid, Project Number CC23-104, for the Project, portions of which are attached hereto for ease of reference as **Exhibit "A"**, and the entirety of which is currently on file in office of the Authority Secretary); and (ii) the prices set forth in Contractor's Bid Proposal (attached as **Exhibit "B"**).

**SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY
MULTIPLE ROOF REPLACEMENTS (REBID) CC23-104**

SCOPE OF WORK

This Project involves the reconstruction of eight building roofs at the Southern California Logistics Airport. Five of these eight roofs (Bldgs. 732/733/738/739/744) involve the complete removal of built-up roofing materials and replacing with Spray Polyurethane Foam ("SPF") followed by multiple coats of elastomeric. Two hangar roofs (Bldgs. 682/685) are to be cleaned, applied with Macropoxy 646, or equivalent, and sprayed with ULTRA-TUFF 2500 Polyurethane Coating, or equivalent, followed by multiple coats of elastomeric. One building (Bldg. 867A) requires the removal of EPDM rubber and roll roofing down to the wood deck and replacement with SPF and multiple coats of elastomeric. This project shall be scheduled to have all eight roofs completed within 45 calendar days.

Building 867A has three roof surfaces at three height levels with two lower level roofs having parapet walls with the total square footage of the roofs and parapet walls being approximately 4,800 square feet. Approximately 4,000 square feet of roof decking and 800 square feet of parapet walls are present. The bid schedule involves the removal of approximately 3,000 square feet of roofing material in preparation for SPF. Approximately 1,300 square feet of roll roofing and 1,700 square feet of existing EPDM rubber shall be removed from the roof surfaces and the parapet walls, and the roofing material shall be disposed of in accordance with all local, State, and Federal laws and regulations. The EPDM rubber that is attached vertically to the parapet wall shall be removed. The roll roofing material that is attached vertically to the parapet wall shall be removed. Expansion joints at approximately 60 feet in length shall be installed in each section of the two lower roof decks, for an approximate total length of 120 feet. Provide and install new 2x4 wood nailer and Kynar, or equivalent, prefinished edge metal foam stop, with a cleat, to the north and south sections of the raised roof, approximately 40 linear feet. The edge metal shall have a 2 ½ inch rise with the face extending a minimum of ½ inches past the previous metal drip edge. 6-inch Z metal flashing shall be installed with self-tapping screws with neoprene washers from the existing coping over the top of the SPF and Elastomeric coating. The existing coping shall be cleaned to remove all prior caulking and sealant, new caulking and sealant shall be added to each joint, fabric shall be installed, and 3 coats of elastomeric shall be added to the coping and Z metal. The existing metal roof decking (approximately 1,500 square feet), wood decking (approximately 2,500 square feet), and parapet walls (approximately 800 square feet) shall be cleaned and then covered with compatible wood and metal primers to promote adhesion with the SPF at a rate of 1 gallon per 100 square feet or as necessary to completely cover all surfaces, whichever is greater. On the two sections of the roof with parapet walls, the SPF shall be sprayed in a manner to utilize the existing vertical drains at their current height. The existing scupper drains in the parapet walls shall be enlarged to dimensions of 6 inches wide and 8 inches tall. The existing building vents shall be raised to an appropriate height. The SPF shall be applied to the three roof surfaces in layers not exceeding 1 ½ inches, reaching a minimum 4-inch thickness on the entire roof. The SPF shall be spray applied in a manner to provide for positive slope for proper drainage to prevent ponding. Ponding is defined as any area that has a ¼ inch of standing water for more than 24 hours after a rain. The SPF shall be applied on the six perimeter vertical parapet walls tapering off to termination at the existing coping. The SPF shall be applied on the two interior vertical walls in a manner that seamlessly connects the SPF on the lower roofs to the SPF on the upper roof. Elastomeric Acrylic coating shall then be applied over the top of the SPF in three layers of white, gray, white, with each coat equating to 14 mils dry, for a total of 42 dry mils of acrylic elastomeric coating. White ceramic roofing granules shall then be broadcast into the final coat at the rate of 50 lbs per 100 square feet or until refusal. Once the final coat is fully cured, the contractor shall be responsible for sweeping clean and removing all loose and non-embedded granules from the project site.

Contractor shall be responsible for confirming all roof dimensions and square footages prior to the bid. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.

EXHIBIT A

Buildings 682/685 bid schedule involves the retrofitting of three drainage troughs by installing approximately 280 linear feet of 4-inch ABS pipe and drain fittings. After proper slope is achieved for the ABS pipe and drain fittings, Macropoxy 646 or equivalent, shall be applied to promote adhesion to the SPF at a rate of 1 gallon per 100 square feet, or as necessary to completely cover all surfaces, whichever is greater, to the trough and the metal roof to a termination point that is six feet away from both sides the trough for the entire length of the trough. SPF shall be applied in the trough void to encapsulate the ABS pipe and be applied with a taper to termination point that shall be at six feet on each side from the center of the drainage trough for the entire length of the trough. The SPF shall be spray applied in a manner to provide for positive slope for proper drainage to prevent ponding. Ponding is defined as any area that holds ¼ inch of standing water for more than 24 hours after a rain. This project also includes the removal of four roof protrusions and approximately 17 obsolete pieces of ductwork and various apparatus as outlined in the Technical Specifications and referenced exhibits. The subsequent holes that will exist upon removal of the protrusions and ductwork shall be covered with a minimum 12-inch overlap with roofing materials that will be supplied by the SCLA. Size #10 screws with neoprene washers shall be used to affix the roofing material to the current decking. The existing metal roof decking, approximately 54,000 square feet, shall be cleaned and inspected for loose or missing screws. All loose and/or missing screws shall be replaced with the next size in diameter of like kind fasteners. The entire roof decking shall then be covered with Macropoxy 646, or equivalent, at the rate of 1 gallon per 100 square feet or as necessary to completely cover all metal surfaces, whichever is greater. ULTRA-TUFF 2500 instant set Polyurethane Coating, or equivalent, shall be applied as a base coat at an application rate of 3 gallons per 100 square feet. An elastomeric acrylic coating shall then be applied in three separate applications in layers of white, gray, white, at 14 mils dry per layer for a total of 42 dry mils of acrylic coating. The Macropoxy 646, or equivalent, ULTRA-TUFF 2500, or equivalent, and Elastomeric coatings shall be applied to not obstruct the ridge vent drainage gaps or the drainage trough drains.

There are a total of 6 ridge vents associated with Bldgs. 682/685. Each ridge vent is approximately 81 feet long and 32 inches tall, with an approximate opening at the top of 28 inches in width. The existing hardware cloth on all 6 ridge vents shall be removed and replaced upon completion of the ridge vent interior work with new galvanized ¼ inch square 23-gauge hardware cloth, that shall be secured with #10 self-tapping screws with rubber neoprene washers. The interior section of the ridge vent shall be cleaned to an SSPC-SP3 standard as set forth by the Society for Protective Coatings. After the ridge vent is cleaned to an SSPC-SP3 standard, Macropoxy 646, or equivalent, shall be applied to the entire interior of the ridge vent at a rate of 1 gallon per 100 square feet. Elastomeric Acrylic coating shall then be applied in three separate applications with a white base coat, gray middle coat, and a white topcoat with each layer at 14 mils dry for a total of 42 mils dry to the interior of the ridge vent with special care being taken to not block the drain gaps at the bottom of the ridge vent.

The vertical sides of the ridge vent shall be coated with a Macropoxy 646, or equivalent, at a rate of 1 gallon per 100 square feet or as necessary to complete cover all metal surfaces, whichever is greater. ULTRA-TUFF 2500 instant set Polyurethane Coating, or equivalent, shall be applied as a base coat at an application rate of 3 gallons per 100 square feet. An elastomeric acrylic coating shall then be applied in three separate applications in layers of white, gray, white, at 14 mils dry per layer for a total of 42 dry mils of acrylic coating.

Contractor shall be responsible for confirming all roof dimensions and square footages prior to the bid. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.

Buildings 732/733/738/739/744 bid schedule involves the removal of approximately 7,000 square feet of roofing materials and all associated metal flashings and replacing with SPF. This project involves removing up to 5 layers of existing roll roofing, asphalt shingles, and 1 layer of felt paper and disposing of the waste in accordance with all local, State, and Federal laws and regulations.

EXHIBIT A

The large section of roof for Building 739 has five layers of three tab asphalt shingles placed above one layer of felt paper. Asbestos has been detected in the 4th shingle layer from the top layer on Building 739. Contractor shall remove layers one through three. The fourth layer must be removed by a contractor that is licensed to remove an asbestos containing material in accordance with Federal, State, and local regulations, and a hazardous waste draft manifest must be produced for appropriate disposal. Owner's representative shall inspect and sign the manifest. Contractor shall be responsible for all costs related to the legal removal of said asbestos containing material. In total, Contractor shall remove all five layers of shingles and the felt paper, but only the fourth layer shall be removed and disposed of as an asbestos containing material.

For Buildings 732/733/738/739/744, approximately 660 linear feet of rotted fascia board shall be removed, replaced, and painted as described within the technical specifications. This portion of the project also includes the removal of several roof protrusions, non-functioning evaporative coolers and stands, obsolete air duct housings, dormers, electrical conduit, and rain gutter and tubing downspouts. Upon removal of the varied obsolete apparatus, the subsequent roof holes shall be covered with like material to match the existing wooden roof deck. The existing wood roof decking shall be cleaned, removing any remaining asphalt and residue. Provide and install new 2x4 wood nailer and Kynar, or equivalent, prefinished edge metal foam stop, with a cleat, to the perimeter of each roof. The edge metal shall have a 2 ½ inch rise with the face extending a minimum of ½ inches past the previous metal drip edge. A new reglet and flashing shall be installed approximately 6 inches above the existing reglet, leaving the existing reglet and stucco in place. The roof decking shall then be covered with a compatible wood primer at a rate of 1 gallon per 100 square feet or as necessary to completely cover all surfaces, whichever is greater. The SPF shall then be applied in layers not exceeding 1 ½ inches, reaching a minimum 4-inch thickness on the entire roof, filling gaps between the roof and wall. The existing reglet shall be encapsulated with SPF to be tapered to terminate at the new reglet. The SPF shall be spray applied in a manner to provide for positive slope for proper drainage to prevent ponding. Ponding is defined as any area that has ¼ inch of standing water for more than 24 hours after a rain. An Elastomeric Acrylic coating shall then be applied over the top of the SPF in three separate layers of white, gray, white, with each coat equating to 14 mils dry per layer for a total of 42 dry mils of acrylic coating. Ceramic roofing granules shall then be broadcast into the final coat at the rate of 50 lbs per 100 square feet or until refusal. Once the final coat is fully cured, the contractor shall be responsible for sweeping clean and removing all loose and non-imbedded granules from the project site.

Contractor shall be responsible for confirming all roof dimensions and square footages prior to the bid. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.

EXHIBIT A

SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY MULTIPLE ROOF REPLACEMENTS (REBID) CC23-104

Provisions

- Mobilization shall be limited to 10 percent of the total project cost. Contractor shall send 2-4 employees to an Airport Badge Training course to obtain an airport badge for Gate/ AOA access. This training is approximately 2-3 hours in length and requires passing a written test prior to badge being distributed.
- A working day shall be any day other than a legal holiday, Saturday, or Sunday on which the normal working forces of the Contractor may proceed with regular work for at least six (6) hours toward completion of the contract. When work is suspended for causes beyond the Contractor's control, it shall not be counted as a working day. Saturdays, Sundays, and holidays on which the Contractor's forces engage in regular work shall be considered as working days. Working days for this project shall be Monday-Friday, 6:30 A.M. until 4:30 P.M.
- The SCLA shall obtain all necessary licenses and permits prior to commencing work. The Contractor shall obtain a City of Victorville business license prior to commencing work.
- Contractor shall be required to furnish all labor, equipment, supplies and materials, transportation, and storage to perform all operations necessary to complete the project.
- Contractor shall be responsible to haul away all debris from job site in compliance with all local, state, and federal regulations. Landfill site disposal trip tickets must be remitted to the Authority prior to payment.
- Contractor shall provide protection and ways of mitigating overspray when Primer, SPF, and Elastomeric is applied.
- Contractor shall submit product submittals (included in technical specifications) for approval prior to use.
- A Pre-construction meeting shall be held with appropriate tenants and airport staff prior to work commencing. Contractor shall provide a schedule prior to pre-construction meeting.
- Contractor shall hold bids for at least 60 days.
- Contractor shall provide a standard one-year Public Works warranty. No additional warranty requested.

EXHIBIT A

SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)

Building 867A Technical Specifications BID SCHEDULE 100

<u>Bid Item</u>	<u>Description</u>
101	Mobilization, Airport badge training, Bonds, and Insurance (10% Max of Bid Schedule Total Cost).
102	Contractor shall remove and properly dispose of approximately 1,700 square feet of EPDM rubber roof approximately 1,300 square feet of roll roofing as shown on Exhibit A-1. This item requires that landfill site disposal trip tickets be remitted to the Authority prior to payment.
103	Provide and install two expansion joints at approximately 60 linear feet per joint. (Exhibit A-2)
104	Provide and install new 2X4 wood nailer and Kynar, or equivalent, prefinished edge metal foam stop, with a cleat, only on the north and south exterior of the raised roof section. Approximately 40 linear feet. The edge metal shall have a 2 ½ inch rise with the face extending a minimum of ½ inches past the previous metal drip edge.
105	Contractor shall increase the existing scupper drains to 6 inches wide by 8 inches tall, with a finished opening of at least 6 inches wide and 5 inches tall. (Exhibit A-5)
106	Adjust building vent heights to the appropriate height.
107	Clean existing coping of all sealants, caulking, rust, and dirt. (Exhibit A-5)
108	Provide and install new fabric and caulking on existing coping joints.
109	Contractor shall clean all metal and wood roof decking and parapet walls.
110	<p>This is an ALLOWANCE item that shall <u>only</u> be used to pay for <u>EXTRA</u> work as authorized by the AUTHORITY via a written CONTRACT CHANGE ORDER.</p> <p>Inspection and marking of roof deck sections shall take place after roofing has been completely removed and cleaned. The inspection shall be performed by an Authority appointed representative and contractor appointed representative. The purpose of the inspection is to:</p> <ul style="list-style-type: none"> Determine deck serviceability. Any plywood roof deck needing to be removed and replaced, shall be replaced with like material, as approved by Authority representative. Any metal decking needing to be replaced, shall be replaced with like material or ½ inch OSB or plywood overlapping at least 12 inches of existing roof deck and securing with No. 10 self-tapping screws with neoprene washers placed six inches apart. The decision to use metal or plywood decking shall be at the sole discretion of the Authority representative.
111	Contractor shall provide and apply Macropoxy 646, or equivalent, (Exhibit D-1) at a rate of 1.5 gallons per 100 square feet for metal decking and metal parapet walls to promote adhesion between the metal and SPF. Contractor shall provide and apply to the wood roof deck and wood parapet walls Ultra-Bond 10, or equivalent, (Exhibit D-2) at a rate of 1 gallon per 100 square feet to promote adhesion between wood deck and SPF. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.
112	Contractor shall provide and apply SPF Closed-Cell Roofing Foam System or

EXHIBIT A

	equivalent, in accordance with manufacturers specifications and instructions (Exhibit A-3 – Opticell 3.0). SPF shall be applied in layers not exceeding 1 ½ inches, reaching a minimum 4-inch thickness on the entire roof. The SPF shall be uniformly terminated a minimum of 4 inches above the roofline at all penetrations. The SPF shall be spray applied in a manner to provide for positive slope for proper drainage to prevent ponding. Ponding is defined as any area that has ¼ inch of standing water for more than 24 hours after a rain. The final SPF shall be smooth and free of surface deformities and maintain positive slope. SPF shall be applied in a manner to utilize the existing drain heights. SPF shall be applied in a manner to taper to termination on the parapet walls at the coping edge. Approximately 4,800 square feet of roof and parapet walls. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.
113	Install 6-inch Z metal flashing with self-tapping screws with neoprene washers under existing coping edge on the interior wall perimeter and over SPF.
114	Contractor shall provide and apply to the entire roof, parapet walls, and coping, three coats of Henry Permax 108 Elastomeric Acrylic coating, or equivalent, in accordance with manufacturers specifications and instructions (Exhibit A-4). The three coats shall consist of a white base coat, gray middle coat, and white topcoat, with each coat equating to 14 mils dry for a total of 42 dry mils. Approximately 4,800 square feet of roof and parapet walls. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.
115	White Ceramic Roofing Granules shall be broadcast into to the final coat at a rate of 50 lbs per 100 square feet, or until refusal. Once the final coat is cured, the contractor shall be responsible for sweeping clean and removing all loose and non-imbedded granules from the project site.

EXHIBIT A

**SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY
CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)**

**Buildings 682/685
Technical Specifications
BID SCHEDULE 200**

Bid Item

Description

201	Mobilization, Airport badge training, Bonds, and Insurance (10% Max of Bid Schedule Total Cost).
202	Contractor shall clean three existing roof drainage troughs (Exhibit B-2) and provide and install approximately 280 feet of 4-inch ABS pipe and 12 4-inch drain fittings (4 drains per trough). ABS pipe shall be installed to maintain proper slope for drainage.
203	Macropoxy 646, (Exhibit D-1) or equivalent, shall be applied to cleaned drainage troughs and on both sides of the roof deck terminating six feet from the trough extending the length of the trough. The Macropoxy 646, or equivalent, shall be applied to promote adhesion to the SPF at a rate of 1 gallon per 100 square feet, or as necessary to completely cover all surfaces, whichever is greater.
204	After the proper slope of the ABS pipes are secured and Macropoxy 646, or equivalent, has been applied, all trough voids shall be filled with SPF (Exhibit A-3) to a point above the existing roof, uniformly tapering in thickness to a termination point six feet from the trough on each side of the trough for the entire length of the trough. The final SPF shall be smooth and free of surface deformities and applied in a manner to prevent ponding. Ponding is defined as any area that has ¼ inch of standing water for more than 24 hours after a rain.
205	Contractor shall remove and dispose of four roof protrusions and 17 obsolete equipment apparatus as outlined in (Exhibit B-4). All designated protrusions and apparatus shall be removed below the roof deck and subsequent holes shall be covered with material provided by the SCLA with at least a 12-inch overlap of existing roof deck where possible and attached with No. 10 self-tapping screws with rubber neoprene washers.
206	Contractor shall inspect roof for loose or missing screws to be marked.
207	Contractor shall remove and dispose of existing hardware cloth cap on 6 ridge vents. (Exhibit B-10)
208	Contractor shall clean ridge vent interior (Exhibit B-11) to an SSPC-SP3 standard in preparation for the application of Macropoxy 646, or equivalent.
209	Contractor shall provide and apply Macropoxy 646, (Exhibit D-1) or equivalent, at a rate of 1 gallon per 100 square feet or as necessary to cover all surfaces, whichever is greater, to the interior of each ridge vents.
210	Contractor shall provide and apply 3 layers of Elastomeric Acrylic Coating (Exhibit A-4) to the interior of each ridge vent with the base layer being white, the middle layer gray, and the topcoat being white with each layer equating to 14 mils dry for a total of 42 mils dry. Contractor shall inspect the ridge vent drainage gaps to verify that drainage is not obstructed. (Exhibit B-8)
211	Contractor shall provide and attach new hardware cloth (Exhibit B-9) on top of each ridge vent. New hardware cloth shall be galvanized, zinc coated, ¼ inch square at 23-gauge thickness, and shall be attached with #10 self-tapping screws with rubber neoprene washers.
212	Contractor shall clean all metal decking in preparation for the application of Macropoxy 646, (Exhibit D-1) or equivalent.

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213	<p>This is an ALLOWANCE item that shall <u>only</u> be used to pay for <u>EXTRA</u> work as authorized by the AUTHORITY via a written CONTRACT CHANGE ORDER.</p> <p>Inspection and marking of roof deck sections shall take place after roofing has been completely cleaned. The inspection shall be performed by an Authority appointed representative, and contractor appointed representative. The purpose of the inspection is to determine deck serviceability and condition of screws. Any roof decking needing to be replaced shall be replaced with material supplied by SCLA with a minimum 12-inch overlap where possible. All loose and/or missing screws shall be replaced with the next size in diameter of like kind fasteners with rubber neoprene washers.</p>
214	<p>Contractor shall provide and apply Macropoxy 646, or equivalent, (Exhibit D-1) on the hangar roofs and the vertical exterior of the 6 ridge vents as outlined in (Exhibit B-1, Exhibit B-8), at a minimum rate of 1 gallon per 100 square feet, or as necessary to completely cover all metal surfaces, whichever is greater. All coatings shall be applied to not obstruct the ridge vent drainage gaps or the drainage trough drains. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.</p>
215	<p>Contractor shall provide and apply ULTRA-TUFF 2500 Polyurethane Coating, or equivalent, (Exhibit B-6) on all hangar roofs and the vertical exterior of the 6 ridge vents as outlined in Exhibit B-1 and Exhibit B-8 at an application rate of 3 gallons per 100 square feet. Approximately 54,000 total square feet of roof decking and approximately 3,000 total square feet of ridge vent exterior. All coatings shall be applied to not obstruct the ridge vent drainage gaps or the drainage trough drains. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.</p>
216	<p>Contractor shall provide and apply an acrylic elastomeric protective coating (Exhibit A-4) on all hangar roofs, as outlined in Exhibit B-1, the vertical exterior of the 6 ridge vents, as shown in Exhibit B-8, and the SPF filled drainage troughs in three separate layers of white, gray, white, with each layer equating to 14 mils dry for a total of 42 mils dry. All coatings shall be applied to not obstruct the ridge vent drainage gaps or the drainage trough drains. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.</p>

EXHIBIT A

SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)

Buildings 732,733,738,739,744 Technical Specifications BID SCHEDULE 300

Bid Item

Description

301	Mobilization, Airport badge training, Bonds and Insurance (10% Max of Bid Schedule Total Cost).
302	Contractor shall remove and properly dispose of approximately 7000 sq. ft. of roll and shingle roofing materials to expose wood deck (Exhibit C-1). This item requires landfill site disposal trip tickets to be remitted to the authority prior to payment.
303	Building 739 has five layers of shingle on top of felt paper (Approximately 1,900 square feet). Asbestos has been detected in the fourth layer of shingle from the top. Layer #4 must be removed as an asbestos containing material. Contractor shall remove all layers and felt paper to expose wood deck. A hazardous waste manifest must be produced for appropriate disposal.
304	Contractor shall remove, replace, and paint all existing flashings and approximately 660 linear feet of fascia boards. Replace fascia board with like material. Paint shall match existing color scheme.
305	Contractor shall remove all old rain gutters. (Exhibit C-11)
306	Contractor shall remove and dispose of four protrusions and 13 other obsolete apparatus items (Exhibits C-7, C-8, C-9, C-10, C-11). All protrusions shall be removed below the roof deck and subsequent holes covered with new plywood spanning across a minimum of two rafters.
307	Contractor shall install a new reglet and flashing approximately 6 inches above the existing reglet on all roofs.
308	Contractor shall clean wood deck after roofing is removed.
309	Provide and install new 2X4 wood nailer and Kynar, or equivalent, prefinished edge metal foam stop, with a cleat, the perimeter of the roof. The edge metal shall have a 2 ½ inch rise with the face extending a minimum of ½ inches past the previous metal drip edge.
310	This is an ALLOWANCE item that shall <u>only</u> be used to pay for <u>EXTRA</u> work as authorized by the AUTHORITY via a written CONTRACT CHANGE ORDER. Inspection and marking of roof deck sections shall take place after roofing has been completely cleaned. The inspection shall be performed by an Authority appointed representative, and contractor appointed representative. The purpose of the inspection is to determine deck serviceability. Any roof deck needing to be removed and replaced shall be replaced with new like material as approved by the Authority representative.
311	Contractor shall provide and apply Ultra-bond 10 wood primer, or equivalent, (Exhibit D-2) at a rate of 1 gallon per 100 square feet to promote adhesion of closed cell spray foam to the wood deck.
312	Contractor shall provide and apply SPF, Everest Closed-Cell Roofing Foam System or equivalent, in accordance with manufacturers specifications and instructions (Exhibit A-3). SPF shall be applied at a minimum 4-inch thickness on entire roof, with each layer not to exceed 1 ½ inches. The SPF shall encapsulate the existing reglet and be uniformly terminated at the new reglet. The final SPF shall be smooth and free of surface deformities and maintain existing slope. The SPF shall be spray

EXHIBIT A

	applied in a manner to provide for positive slope for proper drainage to prevent ponding. Ponding is defined as any area that has ¼ inch of standing water for more than 24 hours after a rain. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.
313	Contractor shall provide and apply three coats of Henry Permax 108 Elastomeric Acrylic coating, or equivalent, in accordance with manufacturers specifications and instructions, over the SPF (Exhibit A-4). The three coats shall consist of a white base coat, gray middle coat, and white topcoat, with each coat equating to 14 mils dry for a total of 42 dry mils. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.
314	Ceramic Roofing Granules shall be broadcast into to the final coat at a rate of 50 lbs per 100 square feet, or until refusal. Once the final coat is cured, the contractor shall be responsible for sweeping clean and removing all loose and non-imbedded granules from the project site.

BLDG 867A

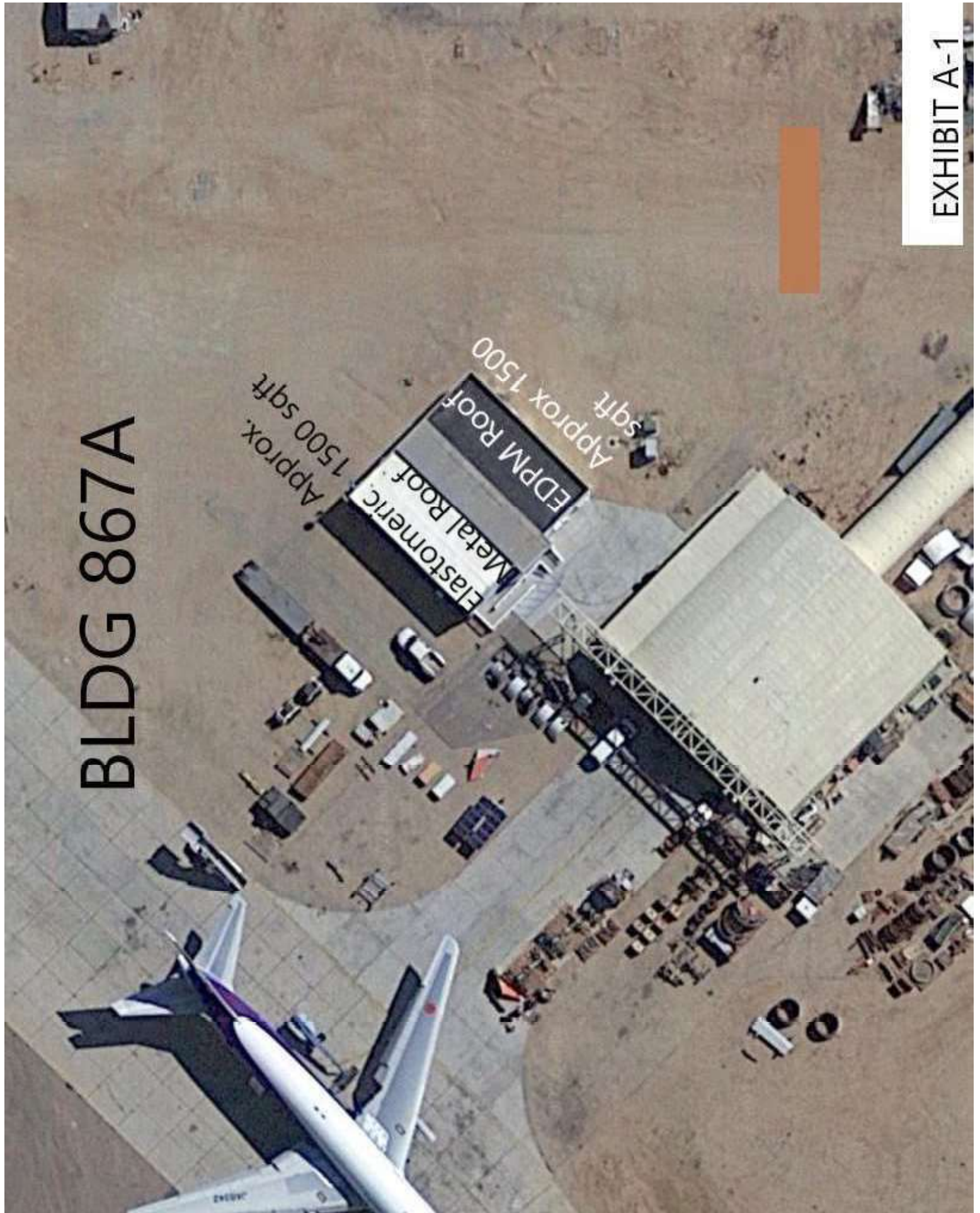


EXHIBIT A

Exhibit A-2

Expansion Joints

Building 867A



EXHIBIT A

EXHIBIT A-5

BUILDING 867A PARAPET WALL COPING, SCUPPER DRAIN, ROOF DRAIN EXAMPLES





Closed-Cell Roofing Foam System

For Professional Use Only

DESCRIPTION

Opticell 3.0 is a two component, closed-cell spray applied polyurethane foam system. Opticell 3.0 offers high compressive strengths, smooth aesthetics and a broad application temperature window.

The Opticell 3.0 system is self-flashing and provides seamless protection by sealing cracks, crevices and holes while insulating decks from temperature extremes. Opticell 3.0 offers a high R-value and can reduce condensation when applied correctly, thus reducing the possibility of mold growth, enhancing energy efficiency and lowering lifecycle costs by providing a low maintenance deck solution.

UNIQUE PROPERTIES

The Opticell 3.0 spray polyurethane foam system comprises an "A" component, which is a polymeric diisocyanate, and a "B" component, which is a combination of polyols, additives, and HFO blowing agent.

RECOMMENDED USES

- Roofing Systems
- Agricultural Applications
- Tank Insulation
- Air barrier Systems

As with any product, use of foam made with Opticell 3.0 system must be tested (including, but not limited to, field testing) in advance by the user to determine suitability.

TYPICAL PHYSICAL PROPERTIES*

Property	Test Method	Result
R Value (aged):	ASTM C-518	6.9 at 1 inch
Compressive Strength	ASTM D-1621	63 psi (nominal)
Core Density:	ASTM D-1622	3.0 lbs./ft 3 (nominal)
Closed Cell Content:	ASTM D-2856	>90%
Tensile Strength:	ASTM D-1623	80 psi
Water Absorption	ASTM D-2842	2%
Moisture Vapor Transmission:	ASTM E-96	1.0 perm-in
Dimensional Stability:	ASTM D-2126	% Change in Volume
28 days @ 158°F 100% RH		7.2%
28 days @ 200°F / AMB		6.6%
Surface Burning Characteristics:	UL 723	Flame Spread Index <75

**These terms are provided as general information only. They are approximate values and are not part of the product specifications.*

EVEREST SYSTEMS, LLC • 16601 Central Green Blvd. #100 • Houston, TX 77032
www.EVERESTSYSTEMSCO.com • Phone 800-575-8966

EXHIBIT A-3



Closed-Cell Roofing Foam System

ENVIRONMENTAL CONSIDERATION AND SUBSTRATE TEMPERATURES

Applicators must recognize and anticipate climatic conditions prior to application to ensure the highest quality foam and to maximize yield. Ambient air and substrate temperatures, moisture, and wind velocity are all critical determinants of foam quality and selection of the appropriate reactivity formulation. Variations in ambient air and substrate temperature will influence the chemical reaction of the two components, directly affecting the expansion rate, amount of rise, yield, adhesion and the resultant physical properties of the foam insulation. To obtain optimum results, the Opticell 3.0 system should only be spray-applied to substrates when ambient air and surface temperatures fall within the range of 45°F and 120°F. All substrates to be sprayed must be dry at the time of application. Moisture in the form of rain, fog, frost, dew, or high humidity (>85% R.H.), will react chemically with the mixed components, adversely affecting the polyurethane foam formation, dimensional stability and physical properties of the finished product. Wind velocities in excess of 12 miles per hour may result in excessive loss of exotherm and interfere with the mixing efficiency, affecting foam surface, cure and physical properties and will cause overspray. Precautions must be taken to prevent damage to adjacent areas from overspray.

Processing Parameters and Physical Characteristics

Pre-heater Temperature:	"A" 110-120°F "B" 120-130°F
Hose Temperature:	110-120°F
Pressures:	1000-1200 psi (dynamic)*
Mix Ratio Parts:	1 by 1 volume "A" to "B"
Viscosity at 70°F	700±100 cps "B: Component" 150-250 cps "A" Component
Shelf Life	6 months @ 65°F to 80°F

*Dependent upon hose length

Product Reactivity

Processing Designation	Surface Temperature
Winter	50-75°F
Regular	70-100°F
Summer	100-120°F

Note: Adhesion should not be tested within one hour of application.

STORAGE CONDITIONS

Store drums at 70°F to 80°F for a minimum of 48 hours before use. Materials in containers should be maintained at 65°F to 85°F while in use. Conditioned trailers or tanks may be necessary. Material temperature should be confirmed with a thermometer or an infrared gun. Do not configure equipment to recirculate Opticell 3.0 components from

proportioner back into drum. Do not recirculate or mix other suppliers' "A" or "B" component into Opticell 3.0 system containers.

CAUTION: If components are below suggested temperatures, the increased viscosity of the components may cause pump cavitation resulting in unacceptable SPF application. If components are above suggested temperatures, there may be loss of blowing agent resulting in diminished yield.

PROCESSING EQUIPMENT

2:1 transfer pumps are recommended for material transfer from container to proportioner. The plural component proportioner must be capable of supplying each component within ±2% of the desired 1:1 mixing ratio by volume. Hose heaters should be set to deliver 110°F to 125°F materials to the spray gun. These settings will ensure thorough mixing in the spray gun mix chamber in typical applications. Optimum hose pressure and temperature will vary with equipment type and condition, ambient and substrate conditions, and the specific application. It is the responsibility of the applicator to properly interpret equipment technical literature, particularly information that relates to the acceptable combinations of gun chamber size, proportioner output and material pressures. The relationship between proper chamber size and the capacity of the proportioner's pre-heater is critical. Mechanical purge spray guns (specifically direct impingement or DI type) are recommended for highest foam quality.

CAUTION: Extreme care must be taken when removing and reinstalling drum transfer pumps so as NOT to reverse the "A" and "B" components.

PER LIFT APPLICATIONS

Applicators should apply a minimum pass thickness of 3/4 inches, maximum pass thickness of 1 1/2 inches, with a minimum of 30 minutes between passes.

HEALTH AND SAFETY INFORMATION

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling materials used to produce foam from the Opticell 3.0 system. Before working with this product, you must read and become familiar with the available information on its risks, proper use and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels.

To the best of our knowledge all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. Used must contact Everest systems Company to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Everest Systems Products. We assume no responsibility for coverage, performance or injuries resulting from use. Liability if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND

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MACROPOXY® 646

FAST CURE EPOXY MASTIC

Revised: January 20, 2023

PRODUCT DESCRIPTION

MACROPOXY 646 Fast Cure Epoxy Mastic is a high solids, high build, fast drying, polyamide epoxy designed to protect steel and concrete in industrial exposures. Ideal for maintenance painting and fabrication shop applications. The high solids content ensures adequate protection of sharp edges, corners, and welds. This product can be applied directly to marginally prepared steel surfaces.

INTENDED USES

- Recommended for marine applications, refineries, offshore platforms, fabrication shops, chemical plants, tank exteriors, power plants, water treatment plants, and mining and minerals industry
- Factory ground formulas are available for subsea/immersion service. For a full list of shades please consult Sherwin-Williams

PRODUCT DATA

Finish: Semi-Gloss
Colors: Mill White, Black and a wide range of colors available through tinting
Volume Solids: 72% ± 2%, mixed, Mill White
VOC (mixed): <250 g/L; 2.08 lb/gal
Mix Ratio: 1:1 by volume

Typical Thickness:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	7.0 (175)	13.5 (338)
Dry mils (microns)	5.0* (125)	10.0 (250)
~Coverage sq ft/gal (m²/L)	115 (2.9)	230 (5.8)

Theoretical coverage **sq ft/gal (m²/L) @ 1 mil / 25 microns dft** **1152 (28.2)**

*May be applied at 3.0-10.0 mils (75-250 microns) dft as an intermediate in a multicoat system.

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Shelf Life: 36 months, unopened
Store indoors at 40°F (4.5°C) to 110°F (43°C).

Flash Point: 91°F (33°C), TCC, mixed

Reducer/Clean Up¹: VOC Restricted Areas (<250 g/L): use Reducer #111 or Oxsol 100

Weight: 12.9 ± 0.2 lb/gal ; 1.55 Kg/L, mixed, may vary by color

¹Other areas (<340 g/L): use Reducer #111, Oxsol 100, Reducer #15, Reducer #58, or MEK up to 10%. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

Average Drying Times @ 7.0 mils (175 microns) wet:

	35°F (1.7°C)	77°F (25°C)	100°F (38°C)
	50% RH	50% RH	50% RH
Touch:	4-5 hours	2 hours	1.5 hours
Handle:	48 hours	8 hours	4.5 hours

Recoat:
minimum: 48 hours 8 hours 4.5 hours
maximum: 1 year 1 year 1 year

Cure to service:

atmospheric:	10 days	7 days	4 days
immersion:	14 days	7 days	4 days

Average Drying Times as intermediate @ 5.0 mils (125 microns) wet:

Touch:	3 hours	1 hour	1 hour
Handle:	48 hours	4 hours	2 hours

Recoat:
minimum: 16 hours 4 hours 2 hours
maximum: 1 year 1 year 1 year

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

Paint temperature must be 40°F (4.5°C) minimum.

Pot Life:	10 hours	4 hours	2 hours
Sweat-in-time:	30 minutes	30 minutes	15 minutes

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Minimum recommended surface preparation:

Iron & Steel:	Atmospheric: SSPC-SP2/3 / ISO8501-1:2007 St 2 or SSPC-SP WJ-3 / NACE WJ-3L Immersion: SSPC-SP10 / NACE 2 / ISO8501-1:2007 Sa 2.5, 2-3 mil (50-75 micron) profile or SSPC-SP WJ-2/NACE WJ-2L
Stainless Steel:	Atmospheric: SSPC-SP16, 1 mil (25 micron) profile
Aluminum & Galvanizing:	SSPC-SP1. If surface has not be weathered for more than 6 months, follow SSPC-SP1 then SSPC-SP16. For fire proofing projects, consult a Sherwin-Williams representative for surface preparation requirements.
Concrete & Masonry:	Atmospheric: SSPC-SP13/NACE 6, or ICRI No. 310.2R CSP 1-3 Immersion: SSPC-SP13/NACE 6-4.3.1
Ductile Iron Pipe:	Atmospheric: NAPF 500-03-03 Power Tool Cleaning Buried & Immersion: NAPF 500-03-04 Abrasive Blast Cleaning Cast Ductile Iron Fittings: NAPF 500-03-05 Abrasive Blast Cleaning



Protective & Marine Coatings

PRODUCT DATA SHEET



Exhibit D-1

MACROPOXY® 646

FAST CURE EPOXY MASTIC

APPLICATION			APPLICATION CONDITIONS	
Airless Spray* Pump 30:1 Pressure 2800-3000 psi (193-206 bar) Hose 1/4" ID (6.3 mm) Tip 0.17"-0.23" (0.43-0.58 mm) Filter 60 mesh Reduction As needed up to 10% by volume			Temperature: Air: 35°F (1.7°C) minimum, 120°F (49°C) maximum Surface*: 35°F (1.7°C) minimum, 250°F (120°C) maximum Material: 40°F (4.5°C) minimum At least 5°F (2.8°C) above dew point Relative humidity: 85% maximum	
Conventional Spray* Gun DeVilbiss MBC-510 Fluid Tip E Air Nozzle 704 Atomization Pressure 60-65 psi (4.1-4.5 bar) Fluid Pressure 10-20 psi (0.7-1.4 bar)			APPROVALS <ul style="list-style-type: none">• Suitable for use in USDA inspected facilities• Acceptable for use in Canadian Food Processing facilities, categories: D1, D2, D3 (Confirm acceptance of specific part numbers/rexes with your SW Sales Representative)• Conforms to AWWA D102 OCS #5• Conforms to MPI # 108• This product meets specific design requirements for non-safety related nuclear plant applications in Level II, III and Balance of Plant, and DOE nuclear facilities• Meets Class A requirements for Slip Coefficient, 0.36 @ 6 mils / 150 microns dft (Mill White only)• Approved intermediate for NEPCOAT System B• Approved to Norsok M501 system 7B (limited colors)• ISO 12944:2018 approved for C2 to CX	
Brush* Brush Nylon/Polyester or Natural Bristle				
Roller* Cover 3/8" woven with solvent resistant core				
Plural Component Spray Acceptable				
*Reduction¹ VOC Restricted Areas (<250 g/L): use Reducer #111 or Oxsol 100				
¹Other areas (<340 g/L): use Reducer #111, Oxsol 100, or Reducer #15 up to 10%. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.				
If specific application equipment is not listed above, equivalent equipment may be substituted.				
RECOMMENDED SYSTEMS				
Dry Film Thickness / ct.		Mils	(Microns)	
Steel & Ductile Iron, Immersion & Atmospheric				
2 Cts. Macropoxy 646		5.0-10.0	(125-250)	
Steel, Organic Zinc Primer, Atmospheric				
1 Ct. Zinc Clad IV (85)		3.0-5.0	(75-125)	
1 Ct. Macropoxy 646		5.0-10.0	(125-250)	
Steel, Inorganic Zinc Primer, Atmospheric				
1 Ct. Zinc Clad II (85)		2.0-4.0	(50-100)	
1 Ct. Macropoxy 646		5.0-10.0	(125-250)	
Steel, Organic Zinc/Epoxy/Urethane Topcoat				
1 Ct. Zinc Clad IV (85)		3.0-5.0	(75-125)	
1 Ct. Macropoxy 646		3.0-10.0	(75-250)	
1 Ct. Acrolon 7300		2.0-4.0	(50-100)	
Steel, Inorganic Zinc/Epoxy/Urethane Topcoat				
1 Ct. Zinc Clad II (85)		2.0-4.0	(50-100)	
1 Ct. Macropoxy 646		3.0-10.0	(75-250)	
1 Ct. Acrolon 7300		2.0-4.0	(50-100)	
Steel, Organic Zinc/Epoxy/Polysiloxane Topcoat, Atmospheric				
1 Ct. Zinc Clad IV (85)		3.0-5.0	(75-125)	
1 Ct. Macropoxy 646		3.0-10.0	(75-250)	
1-2 Cts. Sher-Loxane 800		2.0-4.0	(50-100)	
Steel: Norsok M501 System 7B/Subsea				
2 Cts. Macropoxy 646		7.0	(175)	
Concrete/Masonry, Smooth, Immersion & Atmospheric				
2 Cts. Macropoxy 646		5.0-10.0	(125-250)	
The systems listed above are representative of the product's use, other systems may be appropriate.				
WARRANTY				
The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.				
APPLICATION CONDITIONS				
Temperature: Air: 35°F (1.7°C) minimum, 120°F (49°C) maximum Surface*: 35°F (1.7°C) minimum, 250°F (120°C) maximum Material: 40°F (4.5°C) minimum At least 5°F (2.8°C) above dew point Relative humidity: 85% maximum				
*Application to surfaces above 120°F (49°C) is not recommended in VOC Restricted Areas (≤250 g/L). When spraying a surface above 120°F (49°C) in other areas (>250 g/L), please consult with your Sherwin-Williams representative.				
APPROVALS				
<ul style="list-style-type: none">• Suitable for use in USDA inspected facilities• Acceptable for use in Canadian Food Processing facilities, categories: D1, D2, D3 (Confirm acceptance of specific part numbers/rexes with your SW Sales Representative)• Conforms to AWWA D102 OCS #5• Conforms to MPI # 108• This product meets specific design requirements for non-safety related nuclear plant applications in Level II, III and Balance of Plant, and DOE nuclear facilities• Meets Class A requirements for Slip Coefficient, 0.36 @ 6 mils / 150 microns dft (Mill White only)• Approved intermediate for NEPCOAT System B• Approved to Norsok M501 system 7B (limited colors)• ISO 12944:2018 approved for C2 to CX				
ADDITIONAL NOTES				
Tint Part A with Maxitones at 150% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.				
Tinting is not recommended for immersion service.				
Quick-Kick Epoxy Accelerator is acceptable for use. See data page for details.				
Acceptable for concrete floors.				
Application to surfaces above 120°F (49°C) is not recommended in VOC Restricted Areas (≤250 g/L). When spraying a surface above 120°F (49°C) in other areas (>250 g/L), please consult with your Sherwin-Williams representative. Spray apply only. Product will produce an orange peel appearance when applied at elevated temperatures.				
Topcoating: It is recommended to apply a thinned-down, low wet film thickness mist coat over zinc rich primers to help avoid outgassing. Allow it to tack up and seal the surface. Then apply a full wet film thickness coat as directed.				
Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine one part by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated prior to application. Re-stir before using.				
HEALTH AND SAFETY				
Refer to the SDS sheet before use. Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.				
DISCLAIMER				
The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Sheet.				



ACRYLIC EMULSION PRIMER

DESCRIPTION

ULTRA-BOND 10 is a waterborne modified acrylic neoprene asphalt primer specifically designed to provide maximum adhesion of polyurethane foam and coatings to various construction surfaces. ULTRA-BOND 10 when directly applied to polyurethane foam provides short-term protection from the elements and an excellent surface for bonding of additional urethane foam or coatings. ULTRA-BOND 10 may be applied to BUR roofing, concrete, plywood and some metallic surfaces. Substrates to receive primer should be clean, dry and free of any foreign material such as grease, oil, water, dirt, etc. ULTRA-BOND 10 is fast-drying and has little or no smell associated with its application.

APPLICATION

ULTRA-BOND 10 should be applied at a rate of 1/4 gallon per 100 square feet. NOTE: Application rates will vary depending on substrates. ULTRA-BOND 10 can be applied with airless spray equipment such as Graco 30:1. The primer must be thoroughly mixed prior to application. Cleanup can be accomplished with either water or mineral spirits.

FEATURES

Odorless
Nonflammable
Nonhazardous
Minimum Overspray
Optimum Adhesion Characteristics
(if used as directed)

PHYSICAL PROPERTIES

Solids by Weight (Mixed): 65%
Solids by Volume (Mixed): 56%
Elongation: Over 100%
Service Temperature: 200 deg F

TECHNICAL SPECIFICATIONS

Theoretical Coverage: 900 mil ft.²/gal.
Recommended Thickness: 1/4 gal. per 100 sq. ft.
Number of Coats: One
Color: Black

**APPLICATION INFORMATION**

Method:	Ultra-bond 10 primer is designed for Airless or conventional spray equipment
Minimum temperature:	38°F
Thinning:	None normally required
Dry time:	*30 minutes @ 77° - 50% r.h., 2 mil thickness
Recoat time:	*1 hour @ 77° - 50% r.h., 2 mil thickness
Clean-up solvent:	Water or mineral spirits

Note: The primer should be thoroughly mixed just before application, and applied to a clean, dry surface.

* Dry time and recoat time will vary depending on temperature and relative humidity.

COMPATIBILITY

ULTRA-BOND 10 primer is compatible with General Coatings Manufacturing Corp. foam and most coatings. For information regarding coatings that are not specified in this data sheet, please contact General Coatings Manufacturing Corp.

ORDERING INFORMATION

Approximate Shipping Weight: 10 lbs./gal.

Container Size: 5 gal. pails & 55 gal. drums

Freight Classification: Paint, non-hazardous

The information herein is believed to be reliable, but unknown risks may be present. General Coatings Manufacturing Corp. warrants only that the material shall be of merchantable quality; this warranty is in lieu of all other written or unwritten, expressed or implied warranties, and General Coatings Manufacturing Corp. expressly disclaims any warranty for a particular purpose, or freedom from patent infringement. Accordingly, Buyer assumes all risks whatsoever as to the use of these materials and buyer's exclusive remedy as to any breach of warranty or negligence claim shall be limited to the purchase price of the materials. Failure to strictly adhere to recommended procedure shall relieve General Coatings Manufacturing Corp. of all liability with respect to the materials or the use thereof.

The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to that description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors.

EXHIBIT D-2



PERMAX™ 108 Fast Set

ACRYLIC ELASTOMERIC COATING

Typical Physical Properties

- Color	White	- Low Temp Flex, ½ in @ -15°F (ASTM D6083)	Pass No cracking or checking
- Solids Content		- Accelerated Weathering (ASTM D822, ASTM G23)	8000 hours No checking, fading or checking
Non-Volatile, by wt. (ASTM D 1644)	68.0% +/- 2%	- Permeance @ 20 mils (ASTM D1653)	50 perms
Non-Volatile, by vol. (ASTM D 2697)	60.0% +/- 2%	- Water Swelling (ASTM D6083)	8.6%
- Viscosity (ASTM D 562-33)	95 -105 KU	- Solar Reflectance, Initial	85% +/- 1%
- Brookfield Viscosity (ASTM D-2196)	30,000-40,000 cps	- Thermal Emittance (ASTM C1371)	.89
- Weight per Gallon (PTM* 3.13)	11.2 +/- 0.3 lbs	- Solar Reflective Index (SRI)	107
- Flash Point (ASTM D 93-73-PMCC)	None	- Fungi Resistance, rating (ASTM G21)	0
- Tensile Strength, psi @ Break (ASTM D6083)	390 ± 100 psi	- pH	>9.0
- Elongation, % Initial (ASTM D6083)	245 ± 100	- Tear Resistance (ASTM D6083)	126 lbf/in
After 1000 hrs Xenon Arc Weatherometer	230 ± 100		
- Maximum VOC	50 g/L		

Certifications

FLAMMABILITY CHARACTERISTICS UL-790 (ASTM E-108), U.L. File# R10185

Noncombustible Deck	Class A
Combustible Deck	Class B
Maintenance and Repair	Class A



- California Energy Commission Title 24 qualified. Meets California SCAQMD requirements for VOCs
- ICC-ES ESR-2132
- Exceeds ASTM D6083 requirements

Product Sizes

5 GAL Pails, 55 GAL Drums and 275 GAL Totes

Description

PERMAX™ 108FS is an exceptional quality, elastomeric coating, specially formulated to coat over spray polyurethane foam roofing. Made with premium 100% acrylic resin, **PERMAX™ 108FS** offers premium performance compared to other coatings, typically made with styrene acrylic resins. **PERMAX™ 108FS** is part of the **Permax™** series of spray polyurethane foam roof coatings.

EXHIBIT A-4

EXHIBIT A



Legend

- Roof Project Area (~54,000 Sq. Ft.)
- Area Not Included in Roof Scope

Exhibit B-1

Building 682

Building 685

EXHIBIT A

Legend

- Roof Drainage Troughs (3 Total)
- Area Not Included in Roof Scope

Exhibit B-2

Building 682

Building 685

EXHIBIT A

Exhibit B-2
Top View

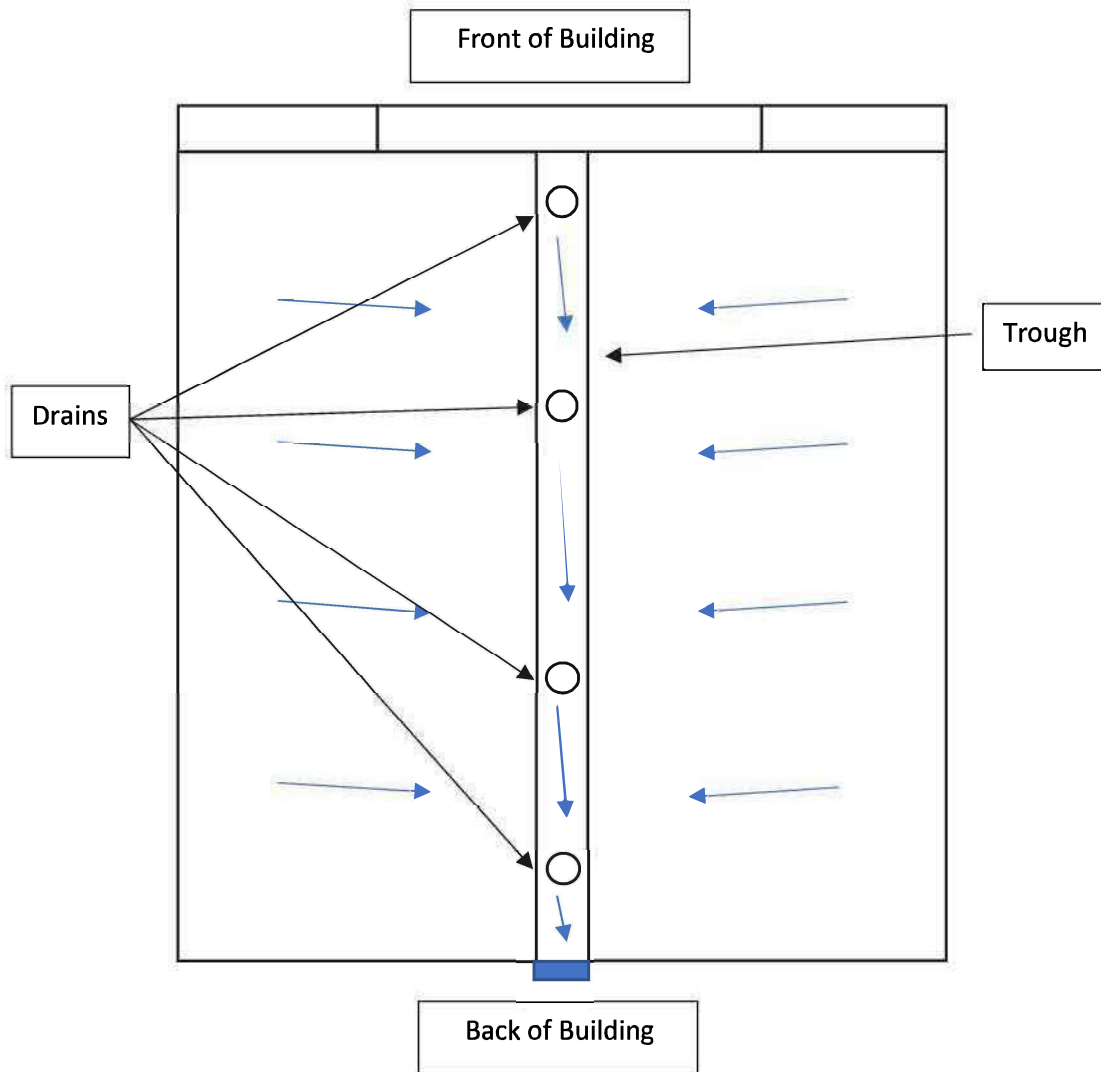


Exhibit B-2
Side View

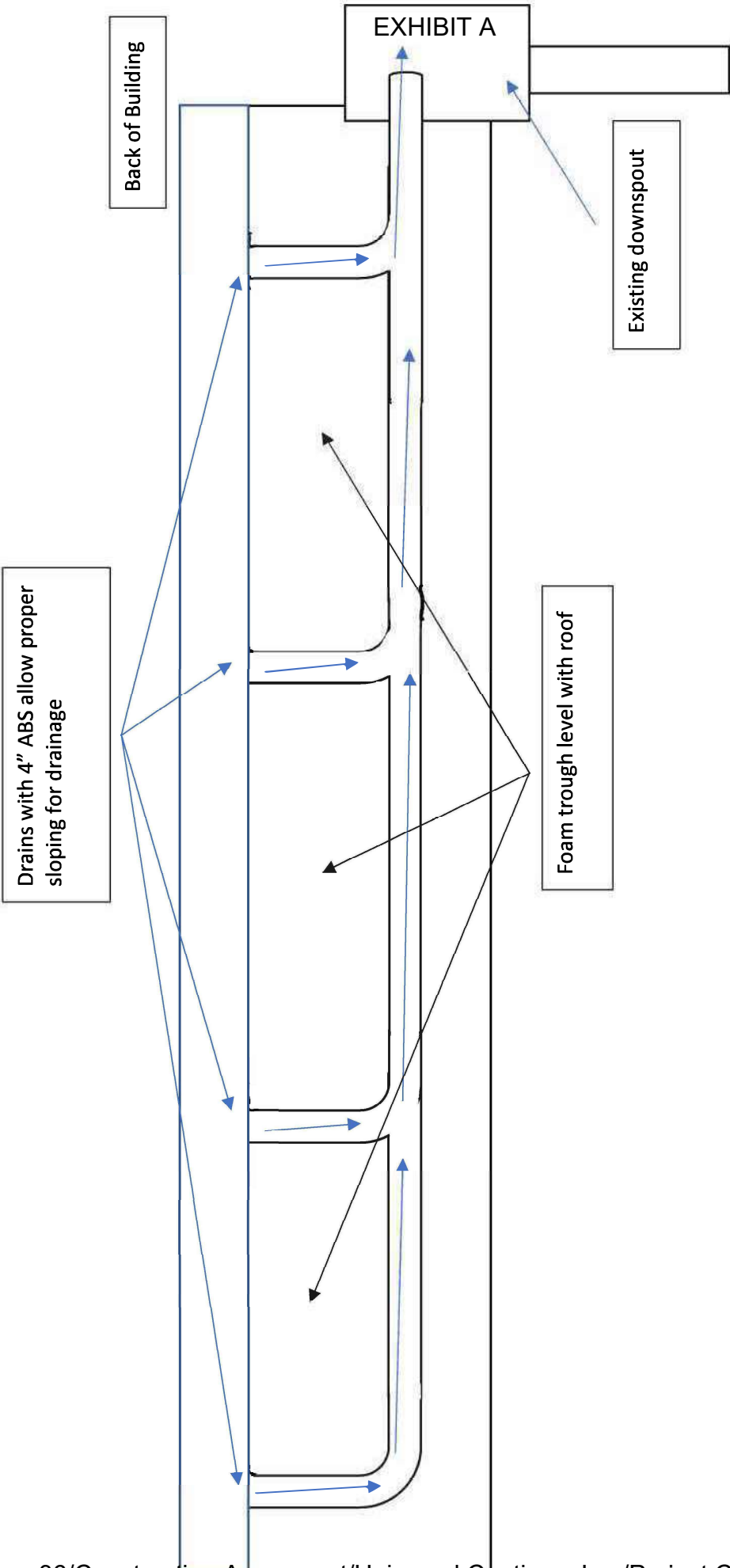


Exhibit B-2



EXHIBIT A

EXHIBIT B-4

Examples of Roof Apparatus to Remove



EXHIBIT A

EXHIBIT B-4



EXHIBIT A

EXHIBIT B-4



EXHIBIT A

EXHIBIT B-10

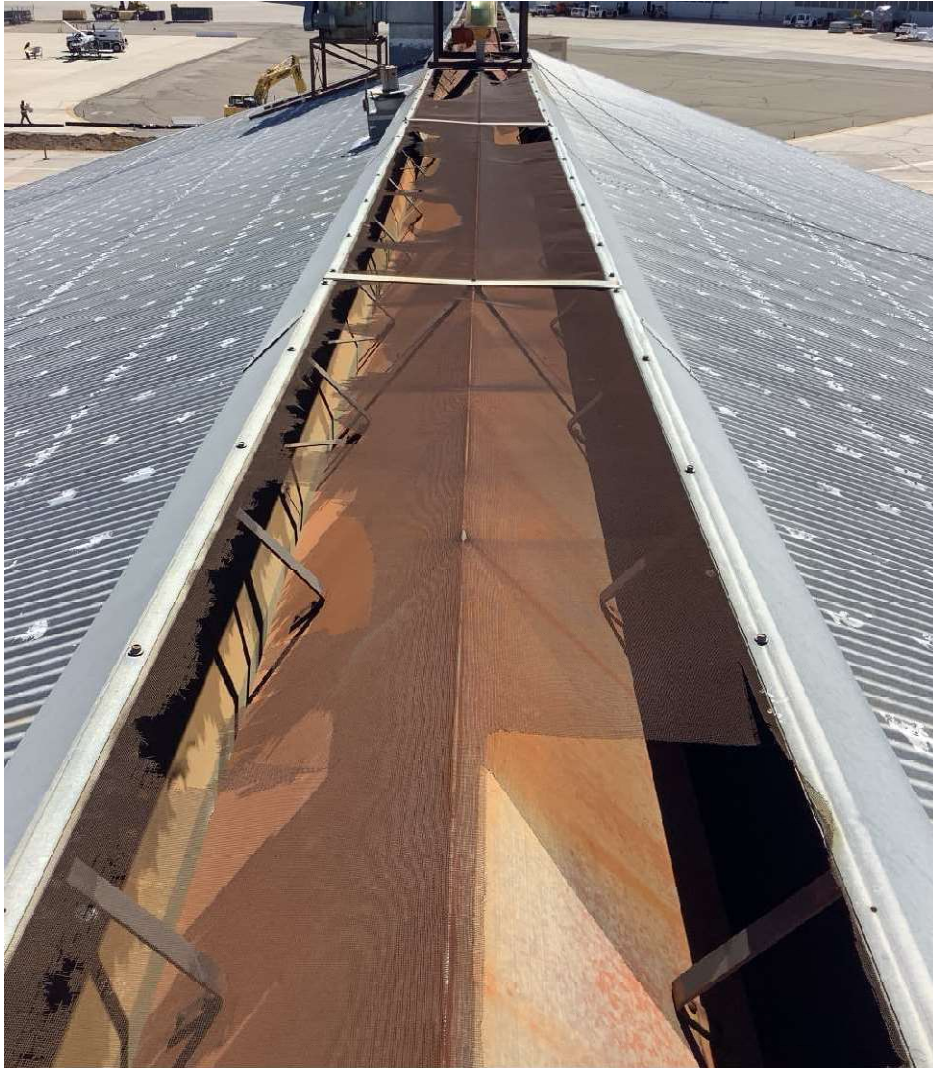


EXHIBIT A

EXHIBIT B-11

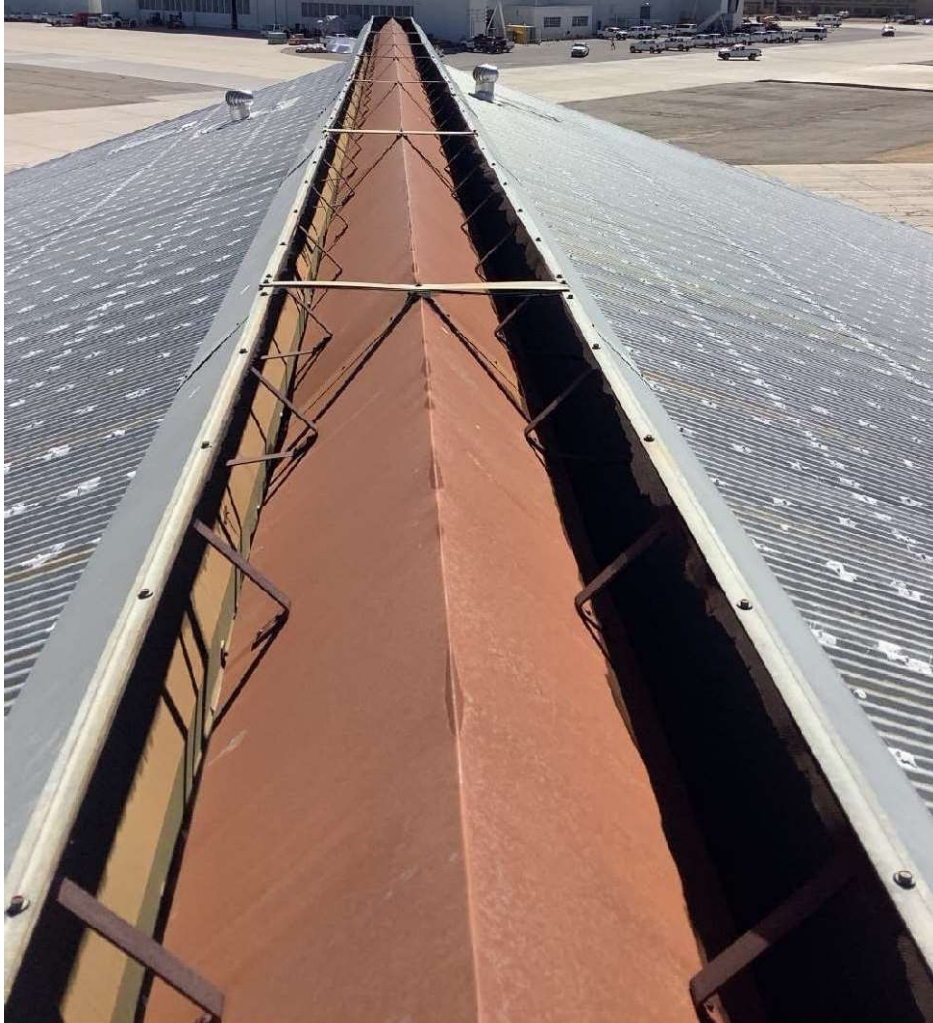



Exhibit B-9
Hardware Cloth

 1/4 in. x 3 ft. x 10 ft. 23-Gauge Hardware Cloth
by Fencer Wire ★★★★★ (82) ♥ 405

Product Details

Specifications

Questions & Answers

Product Details

Specifications

Dimensions

Mesh Size (in.)	1/4 in	Product Height (in.)	36 in
Product Length (ft.)	10 ft	Product Thickness (in.)	0.03 in

Details

Chain Link Type	Hardware cloth	Color Family	Metallic
Fence Application	Decorative, Garden, Pool, Security	Fencing Material Compatibility	Metal
Gauge	23	Material	Metal
Product Weight (lb.)	4.5 lb	Returnable	90-Day

Product Details

Fencer Wire Hardware Cloth is used predominantly for pest control screen and fencing. The cloth mesh is cut with tin snips and shaped for specific projects in a home or on a property, including coverings for window and screen doors, chicken run, rabbit fence, tree guards, drains, gutters, under eaves, soil sifters much more. This heavy-duty hot dipped galvanized hardware cloth, providing a double zinc coating for maximum rust resistance and long life. Molded or folded as needed without any problems.

- Uniformly welded
- Easy to cut/layout
- Double Zinc coated wire providing a double zinc coating for maximum rust resistance and long-life
- Keep your chicken, rabbit and their food safe from small rodents like rats, mice, moles, snakes
- Protect vegetables and flower roots, bulbe, rhizomoe etc. from tunneling animals
- Prevent snakes, gopher, skunk, chipmunks, rabbits and other creature pests living under your wooden deck
- [Return Policy](#)
- California residents [see Prop 65 WARNINGS](#)

Exhibit B-8

Ridge vent drainage gaps and exterior



EXHIBIT A

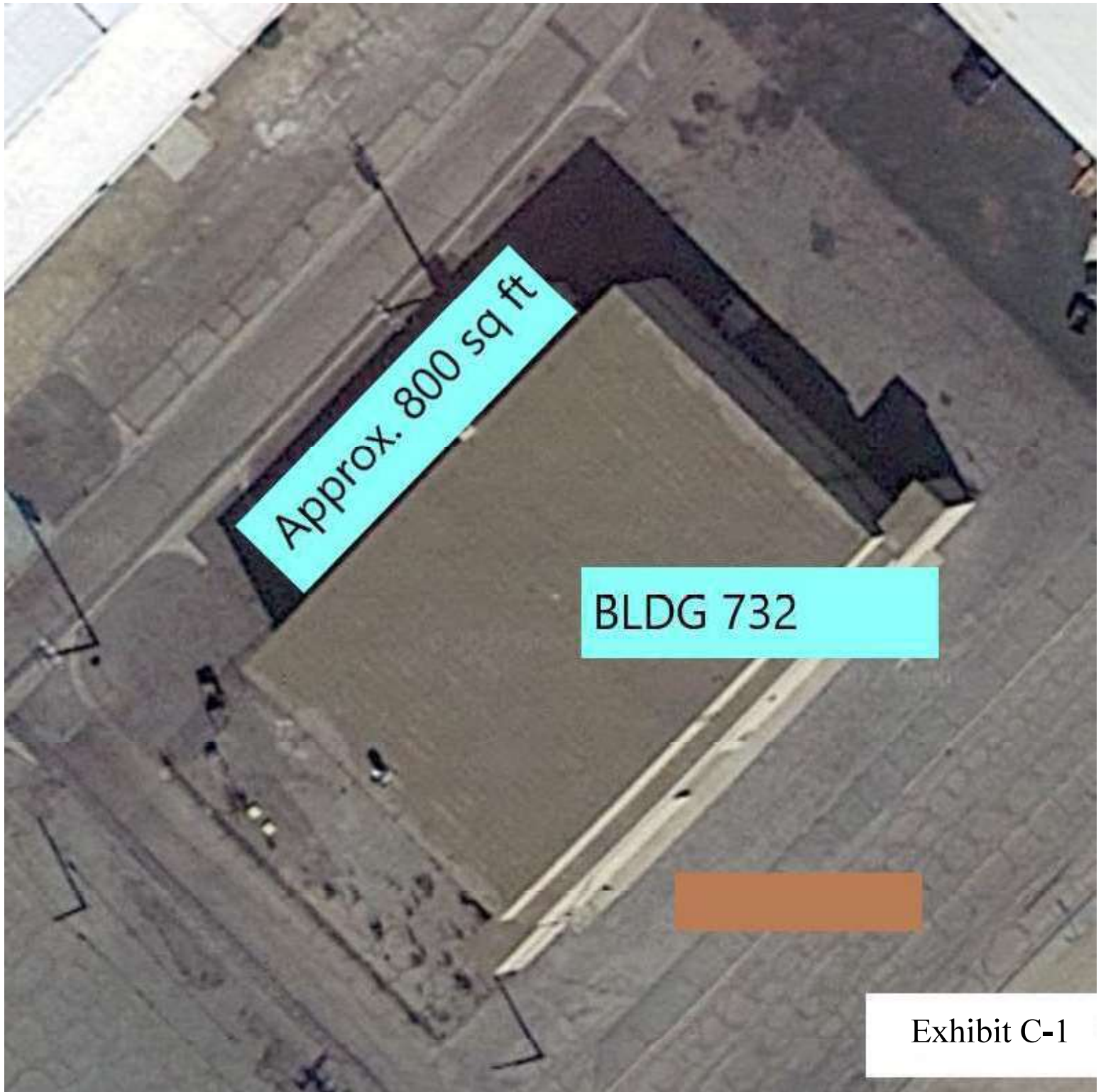


EXHIBIT A

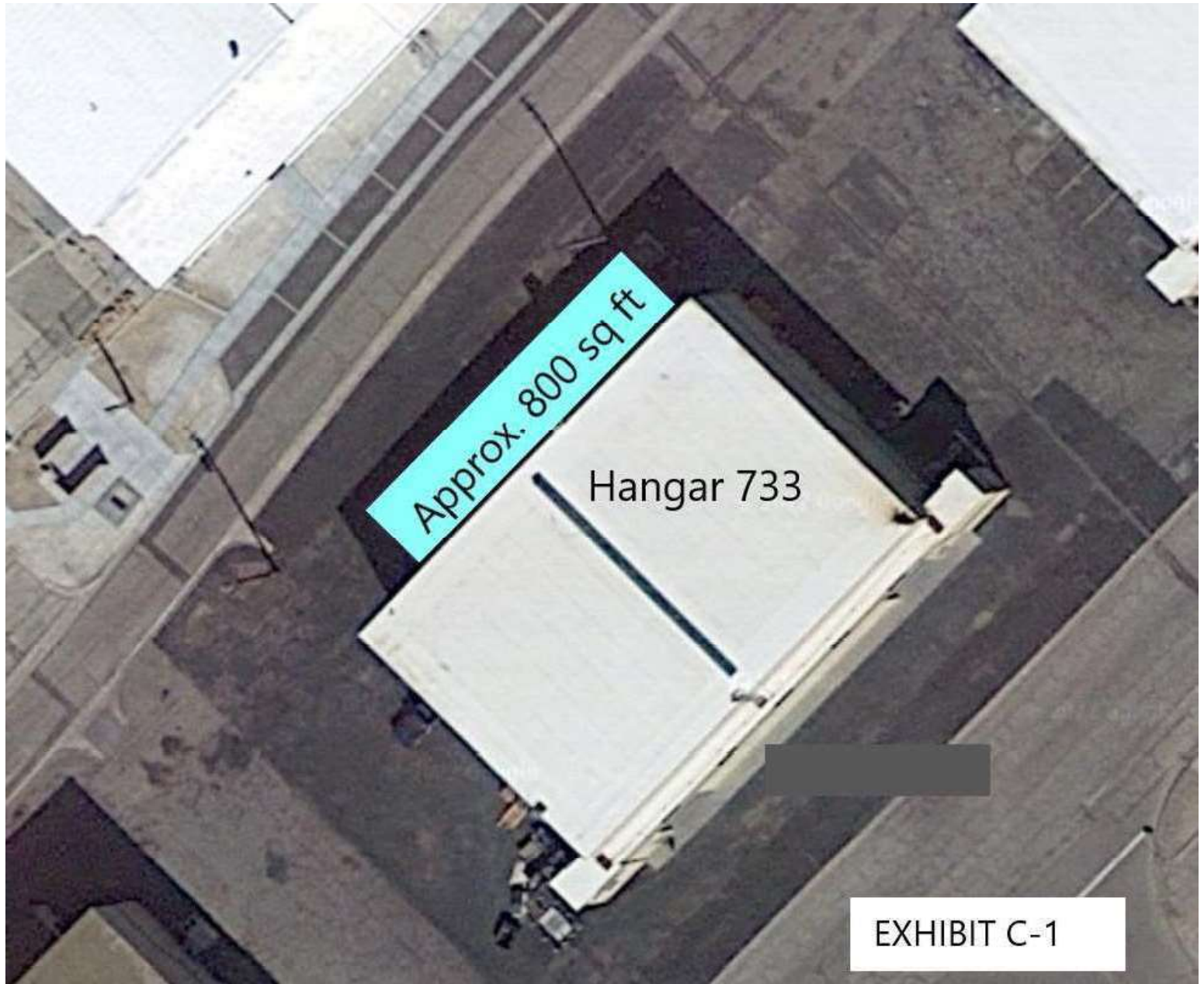




EXHIBIT A

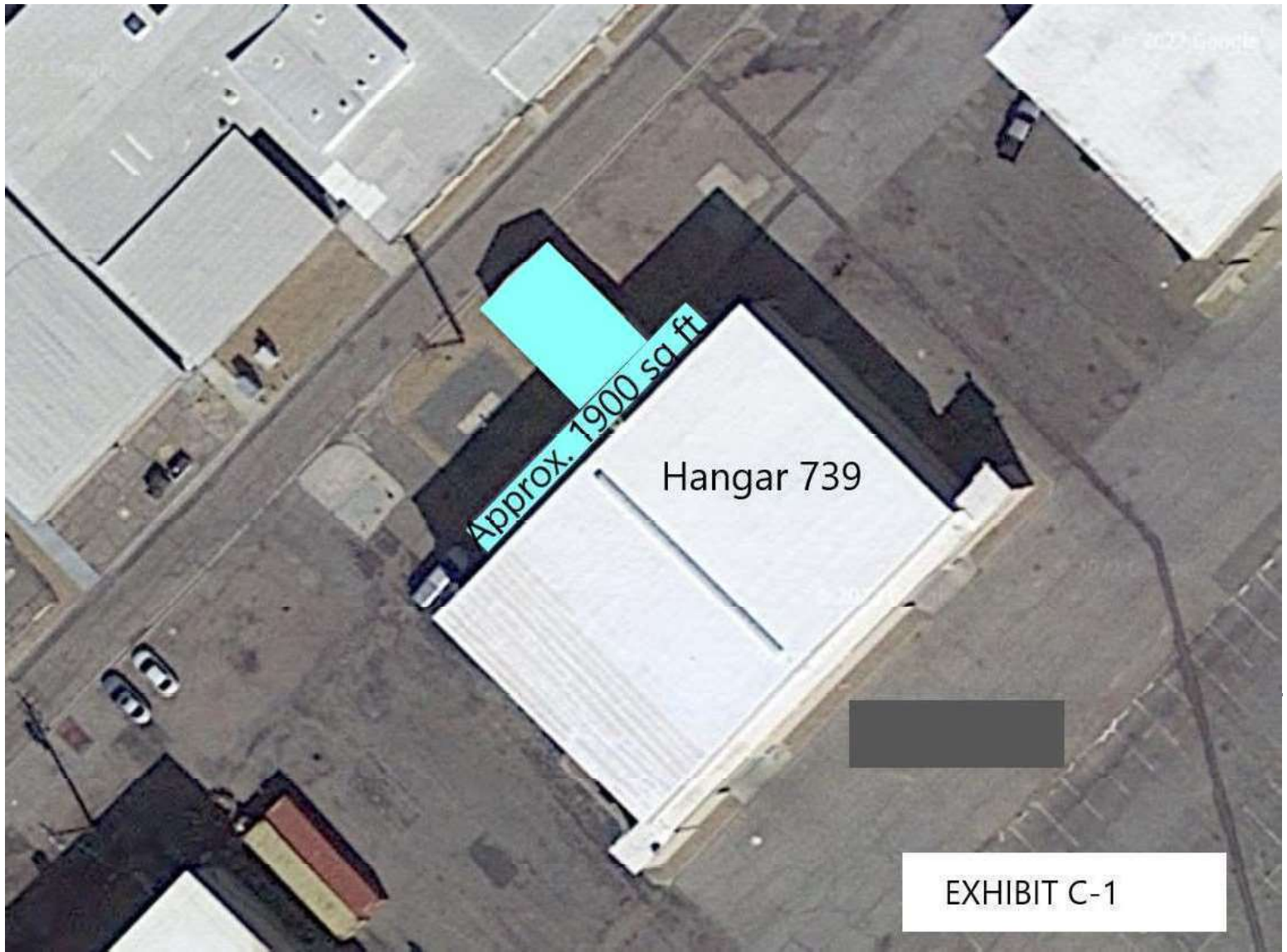


EXHIBIT A



EXHIBIT C-7

Building 732 Roof Protrusions



EXHIBIT A

EXHIBIT C-8

Building 733



EXHIBIT A

EXHIBIT C-8

Building 733



EXHIBIT A

EXHIBIT C-9

Building 738



EXHIBIT A

EXHIBIT C-10

Building 739



EXHIBIT A

EXHIBIT C-10

Building 739



EXHIBIT A

EXHIBIT C-10

Building 739 - This small building is part of the project.



EXHIBIT A

EXHIBIT C-11

Building 744



EXHIBIT A

EXHIBIT C-11

Building 744



EXHIBIT A

EXHIBIT C-11

Building 744



EXHIBIT A



May 5, 2023

ADDENDUM NO. 1 MULTIPLE ROOF REPLACEMENTS PROJECT CC23-104

The attached constitutes additional information and serves to clarify issues considered to be part of the "**MULTIPLE ROOF REPLACEMENTS**" project #CC23-104.

1. **QUESTION:** Are there asbestos reports for the shingle roofs?
ANSWER: Yes. Asbestos reports are provided as an attachment.
2. **QUESTION:** For building 867A, is the middle section being coated as part of the project?
ANSWER: Yes. See Scope of Work for Building 867A.
3. **QUESTION:** Buildings 682 and 685 – The "as builds" were requested.
ANSWER: SCLA cannot confirm that official "as builds" exist, but we are providing construction drawings as an attachment.
4. **QUESTION:** Building 732 – Electrical power is connected to the fascia board. Will the contractor be required to move the electrical power?
ANSWER: Contractor shall unbolt conduit bracket, remove and replace fascia, and reattach electrical conduit.
5. **QUESTION:** Building 739 – Power connected to Fascia. Will the contractor be required to move the electrical power?
ANSWER: Contractor shall unbolt conduit bracket, remove and replace fascia, and reattach electrical conduit.
6. **QUESTION:** Several fascia boards for 732 through 744 have the fascia board not extending past the roof line. What will be required for the fascia on those buildings?
ANSWER: Fascia boards that do not extend past the roof line shall be doubled to extend past the roof line.
7. **QUESTION:** What type of decking is under the shingle roofs? On one roof it appears that tongue and groove might be under the shingles. Will the contractor be required to replace with like material if it is indeed tongue and groove wood?
ANSWER: See Technical Specifications, Bid Item 310.

EXHIBIT A

8. **QUESTION:** Building 739 – Is 739 a metal shed style building that has been covered with stucco?
ANSWER: No, Bldg 739 is a wood frame building with tongue and groove material as the roof base.
9. **QUESTION:** How will the reglets on buildings 732 through 744 be installed if the stucco is not able to be removed?
ANSWER: See revised Scope of Work, revised Technical Specifications Bid Schedule 300, and revised Bid Proposal Price Schedule 300 for Buildings 732/733/738/739/744.
10. **QUESTION:** How will the reglets be installed properly behind the paper that is behind the stucco if the paper turns to dust because of its age?
ANSWER: See revised Scope of Work, revised Technical Specifications Bid Schedule 300, and revised Bid Proposal Price Schedule 300 for Buildings 732/733/738/739/744.
11. **QUESTION:** Will we have to move the AC units on buildings 732 through 744 or work around them?
ANSWER: For Buildings 732/733/738/739/744, contractor shall remove all evaporative cooler units and obsolete apparatus per the Scope of Work.
12. **QUESTION:** What is the time frame for the work to be completed?
ANSWER: Work shall commence immediately after award is made and be completed within 45 days of the notice to proceed being given by the Authority representative.
13. **QUESTION:** May I confirm that there is NO scope of work for us on the stucco on Bldgs 732, 733, 738, 739, 744 (all buildings with existing shingle roofs) as we are only responsible for the remove of existing shingles and installation of new roof.
ANSWER: See revised Scope of Work, revised Technical Specifications Bid Schedule 300, and revised Bid Proposal Price Schedule 300 for Buildings 732/733/738/739/744.
14. **QUESTION:** Are all metal roofs corrugated? Note exhibit B-2 appears to be a Box Seamed Roof - 682 & 685 bldgs. were not walked.
ANSWER: The SCLA conducted a Job Walk on April 26th thereby allowing contractors to familiarize themselves with the roof materials.
15. **QUESTION:** Bldg. 867-A appears to have Silicone on it. How can we foam this roof?
ANSWER: The singly ply silicone roofing material shall be removed by contractor. See Scope of Work for section 867A.
16. **QUESTION:** Bldgs 732, 733, 738, 739, 744 – After discovering EIFS walls, recommend coating walls above roof. No warranty for structural movement? (all buildings with existing shingle roofs) as we are only responsible for the remove of existing shingles and installation of new roof.
ANSWER: See revised Scope of Work, Technical Specifications, and Bid Schedule 300 for Buildings 732/733/738/739/744.

EXHIBIT A

STATEMENTS

1. SECTION C *SCOPE OF WORK, TECHNICAL SPECIFICATIONS BID SCHEDULE 300* MODIFICATIONS:
 - For Buildings 732/733/738/739/744, the Scope of Work, Technical Specifications, and Bid Schedule 300 are hereby replaced by the attached Scope of Work and Technical Specifications Bid Schedule 300.
2. SECTION D *PROPOSALS AND SUBMITTALS* MODIFICATIONS:
 - For Buildings 732/733/738/739/744, the Bid Proposal Price Schedule 300 is hereby replaced by the attached Bid Schedule 300 Bid Proposal Price Schedule.

ATTACHMENTS:

- Asbestos Reports, Buildings 732/733/738/739/744
- Revised Scope of Work, Technical Specifications Bid Schedule 300, and Bid Proposal Price Schedule 300 for Buildings 732/733/738/739/744.
- Construction Drawings for Buildings 682-685

Should you have any questions or concerns regarding this project or any of the project documentation, please email or fax them to Celeste Calderon, Finance Specialist at cmcalderon@victorvilleca.gov

Please confirm receipt of this Addendum #1, by attaching the signed acknowledgment to your Bid Proposal. Failure to acknowledge receipt of this addendum may result in your Bid Proposal being rejected as non-responsive.

The undersigned acknowledges receipt of ADDENDUM #1:


Name of Bidder: _____

Address: _____

Phone #: _____ Email Address: _____

Signature: _____

Addendum #1 Approved:


C. Eric Ray (May 5, 2023 14:37 PDT)

C. Eric Ray, Airport Director

Addendum No. 1
Project CC23-104
ASBESTOS REPORTS
BUILDINGS
732/733/738/739/744



PLM Bulk Asbestos Report

SCLA
Attn: Project Manager
18374 Phantom St.

Victorville, CA 92394

Date Received 01/24/23 **AmeriSci Job #** 923011310
Date Examined 01/27/23 **P.O. #**
Page 1 **of** 2
RE: Bldg. 732 Roof; Asbestos Test

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
Bldg. 732 Roof Location: #1	923011310-01	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Brown, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 732 Roof Location: #2	923011310-02	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Brown/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 732 Roof Location: #3	923011310-03	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Gray/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 732 Roof Location: #4	923011310-04	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Brown/Black, Homogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 65%, Non-fibrous 35%			
Bldg. 732 Roof Location: #5	923011310-05	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Gray/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			

PLM Bulk Asbestos Report

Bldg. 732 Roof; Asbestos Test

Reporting Notes:

Analyzed by: Megan A DeLara
Date: 1/27/2023



Reviewed by: Patricia Weakley



*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.



PLM Bulk Asbestos Report

SCLA
Attn: Project Manager
18374 Phantom St.

Victorville, CA 92394

Date Received 01/24/23 **AmeriSci Job #** 923011311
Date Examined 01/27/23 **P.O. #**
Page 1 **of** 2
RE: Bldg. 733 Roof; Asbestos Test

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
Bldg. 733 Roof Location: #1	923011311-01	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Gray/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 733 Roof Location: #2	923011311-02	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Gray/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 733 Roof Location: #3	923011311-03	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Brown/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 733 Roof Location: #4	923011311-04	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Gray/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 733 Roof Location: #5	923011311-05	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			

PLM Bulk Asbestos Report

Bldg. 733 Roof; Asbestos Test

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
Bldg. 733 Roof Location: #6	923011311-06	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Black/Brown, Homogeneous, Fibrous, Felt			
Asbestos Types:			
Other Material: Cellulose 65%, Non-fibrous 35%			

Reporting Notes:

Analyzed by: Megan A DeLara
Date: 1/27/2023



Reviewed by: Patricia Weakley



*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.



PLM Bulk Asbestos Report

SCLA
Attn: Project Manager
18374 Phantom St.

Victorville, CA 92394

Date Received 01/24/23 **AmeriSci Job #** 923011312
Date Examined 01/27/23 **P.O. #**
Page 1 **of** 2
RE: Bldg. 738 Roof; Asbestos Test

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
Bldg. 738 Roof Location: #1	923011312-01	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Brown/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 738 Roof Location: #2	923011312-02	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Brown/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 738 Roof Location: #3	923011312-03	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Brown/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 738 Roof Location: #4	923011312-04	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			

PLM Bulk Asbestos Report

Bldg. 738 Roof; Asbestos Test

Reporting Notes:

Analyzed by: Megan A DeLara
Date: 1/27/2023



Reviewed by: Patricia Weakley



*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.



PLM Bulk Asbestos Report

SCLA
Attn: Project Manager
18374 Phantom St.

Victorville, CA 92394

Date Received 01/24/23 **AmeriSci Job #** 923011313
Date Examined 01/27/23 **P.O. #**
Page 1 **of** 2
RE: Bldg. 739 Roof; Asbestos Test

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
Bldg. 739 Roof Location: #1	923011313-01	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: White/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 739 Roof Location: #2	923011313-02	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Gray/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 739 Roof Location: #3	923011313-03.1	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Brown/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 739 Roof Location: #3	923011313-03.2	Yes	3% (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic Asbestos Types: Chrysotile 3.0 % Other Material: Non-fibrous 97%			
Bldg. 739 Roof Location: #4	923011313-04	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			

PLM Bulk Asbestos Report

Bldg. 739 Roof; Asbestos Test

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
Bldg. 739 Roof Location: #5	923011313-05	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Black/Brown, Homogeneous, Fibrous, Felt			
Asbestos Types:			
Other Material: Cellulose 65%, Non-fibrous 35%			

Reporting Notes:

Analyzed by: Megan A DeLara
Date: 1/27/2023



Reviewed by: Patricia Weakley



*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.



EXHIBIT A

AmeriSci Los Angeles

24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

SCLA
Attn: Project Manager
18374 Phantom St.

Victorville, CA 92394

Date Received 01/24/23 **AmeriSci Job #** 923011314
Date Examined 01/27/23 **P.O. #**
Page 1 **of** 2
RE: Bldg. 744 Roof; Asbestos Test

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
Bldg. 744 Roof Location: #1	923011314-01	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Beige/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 744 Roof Location: #2	923011314-02	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Brown/Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 744 Roof Location: #3	923011314-03.1	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Black, Homogeneous, Fibrous, Shingle Asbestos Types: Other Material: Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
Bldg. 744 Roof Location: #3	923011314-03.2	No	NAD (by CVES) by Megan A DeLara on 01/27/23
Analyst Description: Black/Brown, Homogeneous, Fibrous, Felt Asbestos Types: Other Material: Cellulose 65%, Non-fibrous 35%			

PLM Bulk Asbestos Report

Bldg. 744 Roof; Asbestos Test

Reporting Notes:

Analyzed by: Megan A DeLara
Date: 1/27/2023



Reviewed by: Patricia Weakley



*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Addendum No. 1

Project CC23-104

UPDATED SCOPE OF WORK,
TECHNICAL SPECIFICATIONS
BID SCHEDULE 300, AND BID
PROPOSAL PRICE SCHEDULE
300 FOR BUILDINGS
732/733/738/739/744

UPDATED SCOPE OF WORK FOR BUILDINGS 732/733/738/739/744

Buildings 732/733/738/739/744 bid schedule involves the removal of approximately 7,000 square feet of roofing materials and all associated metal flashings and replacing with SPF. This project involves removing up to 5 layers of existing roll roofing, asphalt shingles, and 1 layer of felt paper and disposing of the waste in accordance with all local, State, and Federal laws and regulations.

The large section of roof for Building 739 has five layers of three tab asphalt shingles placed above one layer of felt paper. Asbestos has been detected in the 4th shingle layer from the top layer on Building 739. Contractor shall remove layers one through three. The fourth layer must be removed by a contractor that is licensed to remove an asbestos containing material in accordance with Federal, State, and local regulations, and a hazardous waste draft manifest must be produced for appropriate disposal. Owner's representative shall inspect and sign the manifest. Contractor shall be responsible for all costs related to the legal removal of said asbestos containing material. In total, Contractor shall remove all five layers of shingles and the felt paper, but only the fourth layer shall be removed and disposed of as an asbestos containing material.

For Buildings 732/733/738/739/744, approximately 660 linear feet of rotted fascia board shall be removed, replaced, and painted as described within the technical specifications. This portion of the project also includes the removal of several roof protrusions, non-functioning evaporative coolers and stands, obsolete air duct housings, dormers, electrical conduit, and rain gutter and tubing downspouts. Upon removal of the varied obsolete apparatus, the subsequent roof holes shall be covered with like material to match the existing wooden roof deck. The existing wood roof decking shall be cleaned, removing any remaining asphalt and residue. Provide and install new 2x4 wood nailer and Kynar, or equivalent, prefinished edge metal foam stop, with a cleat, to the perimeter of each roof. The edge metal shall have a 2 ½ inch rise with the face extending a minimum of ½ inches past the previous metal drip edge. The roof decking shall then be covered with a compatible wood primer at a rate of 1 gallon per 100 square feet or as necessary to completely cover all surfaces, whichever is greater. The SPF shall then be applied in layers not exceeding 1 ½ inches, reaching a minimum 4-inch thickness on the entire roof, filling gaps between the roof and wall. **The SPF shall encapsulate the existing reglet and be tapered to uniformly terminate against the stucco wall a minimum of 6 inches above the existing reglet.** The SPF shall be spray applied in a manner to provide for positive slope for proper drainage to prevent ponding. Ponding is defined as any area that has ¼ inch of standing water for more than 24 hours after a rain. **An Elastomeric Acrylic coating shall be applied in two coats from the termination point of the SPF to the top of the structure at a rate of 1.5 gallons per 100 square feet per coat. The two coats of elastomeric shall match the existing color scheme for each building.** An Elastomeric Acrylic coating shall then be applied over the top of the SPF in three separate layers of white, gray, white, with each coat equating to 14 mils dry per layer for a total of 42 dry mils of acrylic coating. Ceramic roofing granules shall then be broadcast into the final coat at the rate of 50 lbs per 100 square feet or until refusal. Once the final coat is fully cured, the contractor shall be responsible for sweeping clean and removing all loose and non-imbedded granules from the project site.

Contractor shall be responsible for confirming all roof dimensions and square footages prior to the bid. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.

**** UPDATED TECHNICAL SPECIFICATIONS BID SCHEDULE 300 ******SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY
CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)****Buildings 732,733,738,739,744
Technical Specifications
BID SCHEDULE 300****Bid Item****Description**

301	Mobilization, Airport badge training, Bonds and Insurance (10% Max of Bid Schedule Total Cost).
302	Contractor shall remove and properly dispose of approximately 7000 sq. ft. of roll and shingle roofing materials to expose wood deck (Exhibit C-1). This item requires landfill site disposal trip tickets to be remitted to the authority prior to payment.
303	Building 739 has five layers of shingle on top of felt paper (Approximately 1,900 square feet). Asbestos has been detected in the fourth layer of shingle from the top. Layer #4 must be removed as an asbestos containing material. Contractor shall remove all layers and felt paper to expose wood deck. A hazardous waste manifest must be produced for appropriate disposal.
304	Contractor shall remove, replace, and paint all existing flashings and approximately 660 linear feet of fascia boards. Replace fascia board with like material. Paint shall match existing color scheme.
305	Contractor shall remove all old rain gutters. (Exhibit C-11)
306	Contractor shall remove and dispose of four protrusions and 13 other obsolete apparatus items (Exhibits C-7, C-8, C-9, C-10, C-11). All protrusions shall be removed below the roof deck and subsequent holes covered with new plywood spanning across a minimum of two rafters.
307	ITEM 307 IS NO LONGER APPLICABLE; IT HAS BEEN REPLACED WITH ITEMS 312A and 312B.
308	Contractor shall clean wood deck after roofing is removed.
309	Provide and install new 2X4 wood nailer and Kynar, or equivalent, prefinished edge metal foam stop, with a cleat, the perimeter of the roof. The edge metal shall have a 2 ½ inch rise with the face extending a minimum of ½ inches past the previous metal drip edge.
310	<p>This is an ALLOWANCE item that shall <u>only</u> be used to pay for <u>EXTRA</u> work as authorized by the AUTHORITY via a written CONTRACT CHANGE ORDER.</p> <p>Inspection and marking of roof deck sections shall take place after roofing has been completely cleaned. The inspection shall be performed by an Authority appointed representative, and contractor appointed representative. The purpose of the inspection is to determine deck serviceability. Any roof deck needing to be removed and replaced shall be replaced with new like material as approved by the Authority representative.</p>
311	Contractor shall provide and apply Ultra-bond 10 wood primer, or equivalent, (Exhibit D-2) at a rate of 1 gallon per 100 square feet to promote adhesion of closed cell spray foam to the wood deck.

**** UPDATED TECHNICAL SPECIFICATIONS BID SCHEDULE 300 ****

312A Addendum No. 1	Contractor shall provide and apply SPF, Everest Closed-Cell Roofing Foam System or equivalent, in accordance with manufacturers specifications and instructions (Exhibit A-3). SPF shall be applied at a minimum 4-inch thickness on entire roof, with each layer not to exceed 1 ½ inches. The SPF shall encapsulate the existing reglet and be tapered to uniformly terminate against the stucco wall a minimum of 6 inches above the existing reglet. The final SPF shall be smooth and free of surface deformities and maintain existing slope. The SPF shall be spray applied in a manner to provide for positive slope for proper drainage to prevent ponding. Ponding is defined as any area that has ¼ inch of standing water for more than 24 hours after a rain. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.
312B Addendum No. 1	Contractor shall provide and apply two coats of Henry Permax 108 Elastomeric Acrylic coating (Exhibit A-4), or equivalent, in accordance with manufacturers specifications and instructions to the stucco from the termination point of the new SPF and continuing until the top of the structure at a rate of 1.5 gallons per 100 square feet per coat. The two vertical coats of elastomeric shall match the existing stucco color scheme on each building. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.
313	Contractor shall provide and apply three coats of Henry Permax 108 Elastomeric Acrylic coating, or equivalent, in accordance with manufacturers specifications and instructions, over the SPF (Exhibit A-4). The three coats shall consist of a white base coat, gray middle coat, and white topcoat, with each coat equating to 14 mils dry for a total of 42 dry mils. Contractor shall be responsible for containing all overspray as necessary to prevent damage to surrounding vehicles, buildings, and objects.
314	Ceramic Roofing Granules shall be broadcast into to the final coat at a rate of 50 lbs per 100 square feet, or until refusal. Once the final coat is cured, the contractor shall be responsible for sweeping clean and removing all loose and non-imbedded granules from the project site.

**** UPDATED BID PROPOSAL PRICE SCHEDULE 300 ******SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY
CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)****Buildings 732,733,738,739,744
BID SCHEDULE 300**

Bid Item	Description	U. M.	Bid Quantity	Unit Price	Total
301	Mobilization	LS	1		\$
302	Contractor shall complete the removal of original roof to expose the wood deck	SF	Approximately 7,000		\$
303	Contractor shall complete the removal of asbestos containing material on Bldg 739	SF	Approximately 1,900		\$
304	Remove, replace, and paint fascia boards and flashing with new similar material to what was removed	LF	Approximately 660		\$
305	Remove rain gutter	LF	Approximately 127		\$
306	Contractor shall remove protrusions and apparatus from roof and cover subsequent holes with new like material	EA	17		\$
307	REPLACED WITH 312 A and 312B	XX	XXXXXX	XXXXXX	\$XXXXXX
308	Contractor shall clean wood deck	SF	Approximately 7,000		\$
309	Install new 2X4 wood nailer and prefinished edge metal foam stop	LF	Approximately 660		\$
310	Extra work or repairs if approved by Authority	Allow			\$10,000
311	Apply appropriate wood primer on roof deck	SF	Approximately 7,000		\$
312A	Apply 4" Spray Polyurethane Foam (SPF) on roofs	SF	Approximately 7,000		\$
312B	Apply acrylic elastomeric protective coatings on stucco walls above SPF	SF	Approximately 15,000		\$
313	Apply acrylic elastomeric protective coatings on SPF	SF	Approximately 7,000		\$
314	Apply ceramic roofing granules and clean loose granules	SF	Approximately 7,000		\$

BID PROPOSAL FOR BUILDINGS 732,733,738,739,744:

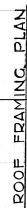
\$ _____

BID PROPOSAL FOR BUILDINGS 732,733,738,739,744 IN WORDS:

Addendum No. 1
Project CC23-104
CONSTRUCTION DRAWINGS
BUILDINGS
682/685

U. S. ARMY ENGINEER DISTRICT

1. ROOFING SHALL BE 24 GA. GALV. STEEL PASCOE PANELS.
2. PASCOE PANELS SHALL BE ATTACHED TO PURLINS WITH PASCOE SHOULDER BOLTS @ 9' O.C. CENTER TO CENTER AT PANEL END LIPS. THE PASCOE PANEL SHALL BE ATTACHED TO THE PURLIN WITH PASCOE SHOULDER BOLTS AT 5" ON CENTER.
3. PASCOE PANELS SHALL BE ATTACHED TO THE EAVE STRUT WITH PASCOOLC BOLTS AT 8' O.C. CENTER.
4. A LEAD OF PERMANENTLY PLIABLE MASTIC SHALL BE APPLIED TO THE SIDE AND END LAPS OF ALL PANELS.
5. PURLINS SHALL BE 9 1/4" X 2 1/2" X 14 C.A. J'S FABRICATED FROM STEEL CONFORMING TO THE CHEMISTRY REQUIREMENTS SPECIFIED IN THE SPECIFICATIONS FOR STRUCTURAL SHAPES AND SPECIFICATION 30000 WITH MINIMUM YIELD STRENGTH AND YIELD STRESS OF 30000 PSI AND 36000 PSI RESPECTIVELY.
6. USE 5-4 CLIPS TO ATTACH PURLINS AND EAVE STRUT TO FRAMES UNLESS NOTED.
7. EAVE STRUTS SHALL BE 9' 1/2" X 5 1/8" X 14 GA HIGH TENSILE I²S.
8. SAG ANGLES SHALL BE 3/4" X 1/8" X 16 GA. Z's.
9. ALL DIAGONAL RODS SHALL BE 7/8" DIAMETER UNLESS OTHERWISE NOTED.
10. A STANDARD GALT IRON ROD SHOP SHALL BE USED FOR ALL CONNECTIONS AND MISCELLANEOUS DETAILS. SEE PG. 2 FOR SERIES 1959/116, 1959/117, 1959/118 & 1959/120
11. ENTIRE ROD SHALL BE INSULATED 1/4" THICK W/ 1/2" TYPE II RIGID POLYURETHANE W/FOAM DRAIN VINYL PACKING, MARKET TYPE II RIGID POLYURETHANE W/FOAM DRAIN VINYL PACKING, MARKET
12. ENTIRE ROD SHALL BE INSULATED 1/4" THICK W/ 1/2" TYPE II RIGID POLYURETHANE W/FOAM DRAIN VINYL PACKING, MARKET TYPE II RIGID POLYURETHANE W/FOAM DRAIN VINYL PACKING, MARKET



SEE DWG. NO. SERIES 1595/110 FOR COLUMN LINES 2 THRU 1

RECORD DRAWING - AS BUILT

CONT. NO. 9337 REV. _____ DATE 22 MAR 66 BY No Change

CONT. NO. _____ REV. _____ DATE _____ BY _____

CONT. NO. _____ REV. _____ DATE _____ BY _____

THIS DRAWING MADE FROM INFORMATION
FURNISHED BY THE PROJECT ENGINEER.

19-A-82

~~80/Construction Agreement/Universal Coatings, Inc./Project CC23-104~~

U. S. ARMY ENGINEER DISTRICT



SEE DWG. D.O. SERIES 1595/109 FOR COLUMN
UNES J THRU A AND FOR GENERAL NOTES

ROOF FRAMING PLAN

WESTERN RJ-18
RIDGE VENT x 80'-0" LG.

RECORDED DRAWING - AS BUILT

CONT. NO. 9327 REV. DATE 22 MAR 66 BY No Charge

CONT. NO. REV. DATE FY

CONT. NO. REV. DATE FY

THIS DRAWING MADE FROM INFORMATION
FURNISHED BY THE PROJECT ENGINEER.

18-A-81

BOLD-6824 MW-CON

EXHIBIT B

BID PROPOSAL PRICE SCHEDULE

See Attachment

EXHIBIT B

SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)

BID PROPOSAL PRICE SCHEDULE

The undersigned declares they have carefully examined the site of the proposed work, the proposal, plans, specifications, and contract forms. Bidders shall satisfy themselves to the character, quality, and quantities of work to be performed, availability of materials, tools, equipment, incidentals and labor to be furnished, and to the requirements of the proposed contract. The submission of a proposal shall be prima facie evidence that the bidder has made such examination and is satisfied to the conditions to be encountered in performing the work and the requirements of the proposed contract, plans, and specifications to complete all the work for **Multiple Roof Replacements Project** in accordance with all the provisions of the Contract Documents for the prices set forth in the following schedule:

Building 867A BID SCHEDULE 100

Bid Item	Description	U. M.	Bid Quantity	Unit Price	Total
101	Mobilization	LS	1	3,362	\$ 3,362
102	Contractor shall complete the removal of original roof to expose the roof decking and parapet wall	SF	Approximately 3,000	1.50	\$ 4,500
103	Provide and install expansion joints	LF	120	1.00	\$ 120
104	Provide and install new 2X4 nailer and edge metal foam stop	LF	Approximately 40	125.00	\$ 500
105	Increase scupper drain size	Each	8	150.00	\$ 1,200
106	Adjust vent heights	Each	6	33.00	\$ 198
107	Clean existing coping	LF	Approximately 280	1.00	\$ 280
108	Provide and install new caulking, fabric to existing coping	LF	Approximately 280	1.00	\$ 280
109	Clean metal decking, wood roof decking, and parapet walls	SF	Approximately 4,800	1.00	\$ 4,800
110	Extra work or repairs if approved by Authority	Allow			\$5,000
111	Provide and apply rust inhibiting primer to metal decking and appropriate primer to wood decking and parapet walls	SF	Approximately 4,800	1.25	\$ 6,000
112	Provide and apply 4" Spray Polyurethane Foam (SPF) on roof	SF	Approximately 4,800	7.00	\$ 33,600
113	Provide and install 6-inch Z metal to coping	LF	Approximately 280	2.00	\$ 560
114	Provide and apply acrylic elastomeric protective coatings (3 layers)	SF	Approximately 4,800	3.00	\$ 14,400
115	Provide and apply white ceramic roofing granules, clean refused granules	SF	Approximately 4,800	1.50	\$ 7,200

EXHIBIT B

SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY
CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)

BID PROPOSAL FOR BUILDING 867A: \$ 82,000.00

BID PROPOSAL FOR BUILDING 867A IN WORDS:

Eighty Two Thousand and 00/100

EXHIBIT B

SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)

Buildings 682/685 BID SCHEDULE 200

Bid Item	Description	U. M.	Bid Quantity	Unit Price	Total
201	Mobilization	LS	1	17,352	\$ 17,352
202	Clean drainage troughs and Install 4-inch ABS plastic and 12 4-inch drainpipe fittings in 3 existing drain troughs	LF	Approximately 280	40.00	\$ 11,200
203	Apply Macropoxy 646 to cleaned drainage troughs and twelve feet of roof (six feet per side)	SF	Approximately 4,200	0.50	\$ 2,100
204	Apply Spray Polyurethane Foam (SPF) on drainage troughs and twelve feet of roof (six feet per side)	SF	Approximately 4,200	3.00	\$ 12,600
205	Remove and dispose of roof protrusions, obsolete apparatus, cover holes	EA	Approximately 21	200.00	\$ 4,200
206	Inspect for missing or loose roof screws, replace as necessary	SF	Approximately 54,000	0.15	\$ 8,100
207	Remove and dispose of hardware cloth ridge vent caps	SF	Approximately 1,150	2.00	\$ 2,300
208	Clean ridge vent interior to SSPC-SP3 standard	SF	Approximately 4,130	2.00	\$ 8,260
209	Apply Macropoxy to ridge vent interior	SF	Approximately 4,130	2.00	\$ 8,260
210	Apply Elastomeric Coating to ridge vent interior	SF	Approximately 4,130	2.00	\$ 8,260
211	Install new hardware cloth 81 feet long x 28 inches wide X 6 ridges	SF	Approximately 1,134	2.00	\$ 2,268
212	Clean all metal roof decking and ridge vent exterior	SF	Approximately 57,000	1.00	\$ 57,000
213	Extra work or repairs if approved by Authority	Allow			\$20,000
214	Apply Macropoxy 646 to hangar roofs and ridge vent exterior	SF	Approximately 54,000	1.15	\$ 62,100
215	Apply ULTRA-TUFF 2500 polyurethane coating to hangar roofs and ridge vent exterior	SF	Approximately 57,000	2.00	\$ 114,000
216	Apply acrylic elastomeric protective coating to hangar roofs and ridge vent exterior	SF	Approximately 57,000	3.00	\$ 171,000

EXHIBIT B

SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY
CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)

BID PROPOSAL FOR BUILDINGS 682/685: \$ 509,000.00

BID PROPOSAL FOR BUILDINGS 682/685 IN WORDS:

Five Hundred Nine Thousand and 00/100

EXHIBIT B

**** UPDATED BID PROPOSAL PRICE SCHEDULE 300 ******SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY
CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)****Buildings 732,733,738,739,744
BID SCHEDULE 300**

Bid Item	Description	U. M.	Bid Quantity	Unit Price	Total
301	Mobilization	LS	1	6,523 8,259	\$ 8,259
302	Contractor shall complete the removal of original roof to expose the wood deck	SF	Approximately 7,000	2.00	\$ 14,000
303	Contractor shall complete the removal of asbestos containing material on Bldg 739	SF	Approximately 1,900	2.00	\$ 3,800
304	Remove, replace, and paint fascia boards and flashing with new similar material to what was removed	LF	Approximately 660	3.30	\$ 2,178
305	Remove rain gutter	LF	Approximately 127	9.00	\$ 1,143
306	Contractor shall remove protrusions and apparatus from roof and cover subsequent holes with new like material	EA	17	300.00	\$ 5,100
307	REPLACED WITH 312 A and 312B	XX	XXXXXX	XXXXXX	XXXXXX
308	Contractor shall clean wood deck	SF	Approximately 7,000	1.60	\$ 11,200
309	Install new 2X4 wood nailer and prefinished edge metal foam stop	LF	Approximately 660	2.00	\$ 1,320
310	Extra work or repairs if approved by Authority	Allow			\$10,000
311	Apply appropriate wood primer on roof deck	SF	Approximately 7,000	2.00	\$ 14,000
312A	Apply 4" Spray Polyurethane Foam (SPF) on roofs	SF	Approximately 7,000	8.00	\$ 56,000
312B	Apply acrylic elastomeric protective coatings on stucco walls above SPF	SF	Approximately 15,000	1.00	\$ 15,000
313	Apply acrylic elastomeric protective coatings on SPF	SF	Approximately 7,000	4.00	\$ 28,000
314	Apply ceramic roofing granules and clean loose granules	SF	Approximately 7,000	1.00	\$ 7,000

BID PROPOSAL FOR BUILDINGS 732,733,738,739,744:\$ 177,000.00**BID PROPOSAL FOR BUILDINGS 732,733,738,739,744 IN WORDS:**One Hundred Seventy Seven Thousand and 00/100

EXHIBIT B

SOUTHERN CALIFORNIA LOGISTICS AIRPORT AUTHORITY
CC23-104 MULTIPLE ROOF REPLACEMENTS (REBID)

***** **AUTHORITY CLERK WILL READ THIS BID** *****

GRAND TOTAL BID FOR ALL BUILDINGS (BID SCHEDULES 100, 200, and 300)

\$ ***768,000.00***

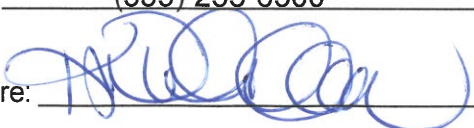
**GRAND TOTAL BID FOR ALL BUILDINGS IN WORDS: (BID SCHEDULES 100,
200, and 300)**

Seven Hundred Sixty Eight Thousand and 00/100

Bidder: Universal Coatings, Inc.

Address: 5191 E. Dakota Avenue Fresno, CA 93727

Phone: (559) 233-6300 E-mail kim@universalcoatings.net

Signature:  Date: May 17, 2023

Name Printed: Kim Nulick Title: Executive Vice President