



REQUEST FOR PROPOSAL

BID NO. 770-0224-20A

MULTIPLE SITE ROOF REPLACEMENT

BID DUE DATE: Monday, February 24, 2020 @ 2:00 PM

I. GENERAL CONDITIONS

- 1. General Information** - The Public Works Department of the City of Antioch, California, will receive bid responses at its office located at [1201 W. 4th Street, Antioch, CA 94509](#) on Monday, February 24, 2020 at 2 PM.

Questions relating to specifications or technical questions must be submitted via email to jpfueger@ci.antioch.ca.us. Bidders are **NOT** to pursue City staff by telephone or in person.

- 2. Form of Bid** - The bid shall be made on the attached bidder's '*Bid Submittal Schedule*'. If the form is deemed inadequate, additional information may be submitted with the proposal, via an attachment of catalogs, drawings, photographs, or a letter. Letters repeating prices and details from the City's specifications must be omitted. Bids shall be made only on the designated bid form, properly executed, and enclosed in a sealed envelope bearing the name of the bidder, the bid number, bid due date, and bid title. Forms are available and may be secured by prospective bidders at the Department of Public Works at **1201 W 4th Street, Antioch, CA 94531**. Bids shall be written in ink, computer generated, or by typewriter. Mistakes may be crossed out and corrections inserted adjacent thereto and must be initialed in ink by the person signing the bid. Bids are to be verified before submission as they cannot be corrected or altered or signed after bids are opened.
- 3. Interpretation of Bids** - Should a bidder find discrepancies in, or omissions from the specifications, or should bidder be in doubt as to their true meaning, bidder shall submit a formal request to the Public Works Department for an interpretation thereof **prior** to the bid opening to the attention of Arlene Roberts at aroberts@ci.antioch.ca.us. The person submitting the request shall be responsible for its prompt delivery. Any interpretation of, or change in the proposed documents will be made only by an addendum published on the City's website, and shall become part of any contract awarded. The City will not be responsible for any other explanation or interpretations.
- 4. Addenda** - Any addenda issued by the City during the time of bidding shall be covered in the bid and shall be made a part of the contract. It is the bidder responsibility to check the City of Antioch website, for any addenda that may have been issued prior to the bid/proposal due date. www.ci.antioch.ca.us/CityGov/Finance/Purchasing/RFPs.htm,
- 5. Before Bid Opening (DUE) - Each of the following Fillable Bid Forms must be completed as part of each Bidder's Bid and shall be submitted before the specified time and date of the Bid Opening as identified in the Notice of Inviting Bids (*Fillable Forms Section*):**
 - a. Bid Submittal Schedule
 - b. Bid Declaration
 - c. Non-Collusion Certification
 - d. List of Subcontractors
 - e. Acknowledgement of Insurance Requirements
 - f. Bidder's Guaranty: Bidder's Bond or,
 - a. Irrevocable Standby Letter of Credit
 - g. Bidder's Statement of Qualifications and Business References
 - h. ANTIOCH CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING ORDINANCE

- i. WASTE MANAGEMENT PLAN (WMP)
- j. Payment Bond *(if selected)*
- k. Performance Bond *(if selected)*

- 6. Bid Opening** - Bids shall be delivered to the Public Works Department of the City of Antioch located at [1201 W. 4th St. Antioch, 94509](#) on or before the day and hour set for the opening of bids. A bidder may withdraw his bid, either personally or by written request, at any time prior to the scheduled time for opening of bids.
- 7. Late Bids** - Any bids received after the scheduled time of opening will be clocked in, but will not be opened or considered.
- 8. No Bid** - If a bid is not made, the bid form must be returned and the reason for not bidding stated; otherwise the vendor's name will be removed from the bidders list. If a bid is submitted without an amount, it will not be considered.
- 9. Award or Rejection** - The bid will be awarded to the lowest responsive and responsible bidder offering the best value to the City and will be announced by way of publishing to the City's website ([Bid Documents](#)). Best value is based on all factors, including: cost (unit prices and total prices); contractor's ability, capacity and skill; ability to perform within the time required; character, integrity, reputation, judgment, experience and efficiency of contractor; quality of contractor's performance on previous purchases or contracts, if applicable; and the ability of the contractor to provide future maintenance, repair, parts and services, if applicable. If within the past two years, a contractor has had a contract terminated early by the City of Antioch, other municipality or Agency, then contractor is disqualified from bidding on any future projects for a two year period from the date of termination.

The City reserves the right to reject any or all bids, to accept or reject any one or more items of a bid, or to waive any minor irregularities or informalities in the bid. It is anticipated that all items will be purchased, however the City reserves the right to change quantities prior to the award. Estimated quantities are no guarantee of a certain quantity to be ordered by City. The City reserves the right to make the award to the overall low bidder, or split the award amongst the bidders. If the bid is on an "all or nothing" basis, this must be stated on the bid form.

For the purpose of evaluating bids for multiple awards, the sum of \$175.00 is considered to be the administrative cost to the City for issuing and administering each contract awarded. Individual awards will be made for the items and combinations of items which result in the lowest aggregate price to the City, including such administrative cost.

- 10. Terms and Conditions** - The bidder shall not change the wording on the specifications or conditions. No words or comments shall be added to the general conditions or detailed specifications. Any explanation or alternative offered shall be set forth in a letter attached to the front cover of the specifications. Alternatives which do not substantially comply with the City's specifications cannot be considered. Conditional bids cannot be accepted.
- 11. Brand Names**- The make or brand and grade of the article on which the bid is submitted should be stated on the bid form.

- 12. Payment Terms** - Must be indicated by filling in the proper blanks on the bid form. Cash discounts of less than 20 days will be considered net. The standard terms at the City of Antioch are Net 30 days.
- 13. FOB Point** - It is understood that the bidder agrees to deliver FOB Destination, with no freight charges to the City. All costs for packing, delivery, drayage, postage, freight, express, or for any other purpose are to be borne by the bidder.
- 14. Approved Equal – Brand names and numbers, when used, are for reference to indicate the character or quality desired.** The use of the name of a manufacturer, or any special brand or make, in describing any item in the bid documents does not restrict bidders to that manufacturer or specific article. An equal of the named product will be given due consideration if literature is submitted with the bid showing that the product is of equal or better quality and utility to that specified by the City. Determination of acceptability of any product shall be solely at the City's discretion.
- 15. Tax** - No bid shall include federal excise tax, inasmuch as the City is exempt per published IRS regulations concerning state/local governments. The City is obligated to pay applicable state sales or use taxes.
- 16. Samples** - When requested, bidders shall submit properly marked samples of the article(s) on which bid is made to the City. Any sample submitted must be clearly marked in such a manner that the marking is fixed, so that the identification of the sample is assured. Such marking shall state (1) name of bidder, (2) number of bid, and (3) item number. Samples, when required, must be furnished free of expense to the City, and if not destroyed by tests, will upon request be returned at bidder's expense unless retained by City for future comparison.
- 17. Inspection** - All items furnished shall be subject to the inspection of the City, and unsuitable items may be rejected. Defective items shall be made good by the vendor in a manner satisfactory to the City.
- 18. Assignment** - No assignment by the contractor or any contract to be entered into hereunder or of any part thereof, except of funds to be received thereunder by the contractor, will be recognized by the City unless such assignment has had the prior written approval of the City.
- 19. Warranty** - Terms of any warranty offered by the manufacturer or the bidder shall be included with the bid. Contractor warrants all work done and goods provided under this Agreement shall at the minimum:
a) meet all conditions of the Agreement; b) shall be free from all defects in design, material and workmanship; and 3) shall be fit for the purposes intended. If any defects occur within said 36 months following acceptance, Contractor shall be solely responsible for the correction of those defects.
- 20. Timely Delivery** – If indicated in the bid form, bidder shall indicate time of delivery as the number of calendar days following receipt of the order by the contractor to receipt of the goods or services by the City. Time of delivery may be a consideration in the award.

Time is of the essence, and the purchase order is subject to termination for failure to deliver on time. The acceptance by buyer of later performance with or without objection or reservation shall not waive the right to claim damage for such breach nor constitute a waiver of the requirements for the timely performance of any obligation remaining to be performed by the vendor.

- 21. Liquidated Damages** - If delivery does not occur on schedule it is understood that the City will suffer damage. It being impractical and infeasible to determine the amount of actual damage, it is agreed that the contractor shall pay to the City the sum of one hundred (\$500.00) dollars per day for each and every calendar days delay in finishing the contract.
- 22. Termination for Default** - The City may, by written notice of default to the vendor/contractor, terminate the contract in whole or in part should the vendor/contractor fail to make satisfactory progress, fail to deliver within time specified therein or fail to deliver in strict conformance to specifications and requirements set forth therein. In the event of such termination, the City reserves the right to purchase or obtain the supplies or services elsewhere, and the defaulting vendor/contractor shall be liable for the difference between the prices set forth in the terminated order and the actual cost thereof to the City. The prevailing market price shall be considered the fair repurchase price. If, after notice of termination of this contract under the provisions of this clause, it is determined for any reason that the Contractor was not in default under the provisions of this clause, the rights and obligations of the parties shall be the same as if the notice of termination had been issued pursuant to the Termination for Convenience clause. The rights and remedies of City provided in this article shall not be exclusive and are in addition to any other rights and remedies provided by law or under resulting order.
- 23. Termination for Convenience** - The City may, by written notice stating the extent and effective date, terminate any resulting order for convenience in whole or in part, at any time. The City shall pay the vendor as full compensation for performance until such termination the unit or pro rate price for the delivered and accepted portion, and a reasonable amount, as costs of termination, not otherwise recoverable from other sources by the contractor as approved by the City, with respect to the undelivered or unaccepted portion of the order, provided compensation hereunder shall in no event exceed the total price. In no event shall the City be liable for any loss of profits on the resulting order or portion thereof so terminated. The rights and remedies of City provided in this article shall not be exclusive and are in addition to any other rights and remedies provided by law or under resulting order.
- 24. Fiscal Year** - Obligation for payment of any contract beyond the current fiscal year end is contingent upon the availability of funding from which payment can be made. No legal liability shall arise for payment beyond June 30 of the calendar year unless funds are made available for such performance.
- 25. Equal Opportunity** - Contractor shall not discriminate, on the basis of a person's race, religion, color, national origin, age, physical or mental handicap or disability, medical condition, marital status, sex, or sexual orientation or any other prohibited basis under federal or state law, against any employee, applicant for employment, subcontractor, bidder for a subcontract, or participant in, recipient of, or applicant for any services or programs provided by Contractor under this Agreement. Contractor shall comply with all applicable federal, state, and local laws, policies, rules, and requirements related to equal opportunity and nondiscrimination in employment, contracting, and the provision of any services

that are the subject of this Agreement, including but not limited to the satisfaction of any positive obligations required of Contractor thereby.

Contractor shall include the provisions of this Subsection in any subcontract approved by the Contract Administrator or this Agreement.

26. Contractor Business License - City Ordinance § 3-1.214, **Contractors**, states:

- A. Every person engaged as a contractor in any business activity which requires a permit under Title 8 of this Code shall pay a business license tax when each building permit is issued at the rate of \$0.75 for each \$1,000 or fraction thereof of the value used to determine the charge for the building permit.
- B. No contractor shall pay more than \$2,400 under this section in any 12 month period from when the building permit is issued. It shall be the responsibility of a contractor who has paid the maximum tax to establish when a building permit is issued that he, she or it has paid the maximum and that no additional tax is due.
- C. Subcontractors on a job for which the subcontractor has provided written evidence acceptable to the Tax Administrator that the general contractor has paid the business license tax for the full job value pursuant to division (A) above shall only be required to obtain a business license certificate and pay such application fee, but not be required to pay the business license tax.

27. Governing Law, Licensing and DIR Requirements - Compliance with laws, licensing and DIR requirements - In connection with the performance of this Contract, full compliance with all applicable safety and health standards and with all applicable laws and regulations concerning Equal Employment Opportunity and Disadvantaged Business Enterprises will be required.

Bidders and their proposed subcontractors shall hold such licenses as may be required by the laws of the State of California for the performance of the work specified in the Contract Documents. Bidders bidding as the prime Contractor shall possess, **a valid California Contractor's General Engineering License "A"** at the time of contract award and throughout the contract term. The Contractor will also be required to ensure that all subcontractors working on this project are holding valid licenses, permits, etc. suitable for their trade.

Work performed under this contractor is subject to compliance monitoring and enforcement by the Department of Industrial Relations. All Contractors and Subcontractors listed on the bid proposal must be registered with the Department of Industrial Relations. No contract will be awarded to a Contractor or Subcontractor unless they are registered with Department of Industrial Relations.

28. Liabilities -- Contractor shall indemnify, save and hold harmless from and defend the City, its officers, agents and employees, against any and all claims, costs, demands, causes of action, suits, losses, expense or liability arising from, or alleged to have arisen, from any acts or omissions of Contractor, its agents, sub-contractors, officials or employees, in connection with the execution of the work covered by this Agreement, as it may be amended, except for the sole negligence or willful misconduct of City. This indemnification includes any claim that the materials or equipment provided under this Agreement, or any tool, article or process used in manufacture of such tools or equipment, constitutes an infringement of any patent issued by the United States. This entire indemnification provision shall survive termination or cancellation of this Agreement.

29. Right to Audit -- The City of Antioch reserves the right to verify, by examination of vendors' records, all invoiced amounts when firm prices are not set forth in the purchase agreement.

30. Assignment -- In submitting a bid to a public purchasing body, the bidder offers and agrees that if the bid is accepted, it will assign to the purchasing body all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of part 2 of Division 7 of the Business and Professions Code), arising from the purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.

31. Surety Bonds -- The Bidder is required to submit a bidder's bond if included on the Bid Form. Unless stated to the contrary in the Detailed Specifications, Contractor is required to provide the following surety bonds from an admitted and authorized surety in California in the full amount of the work to be performed:

A Performance Bond and a Payment Bond.

32. Prevailing Wage - Where labor is required for public work as part of this contract, pursuant to the provisions of the Labor Code of the State of California, contractors shall pay no less than the minimum wages established by the Director of the Department of Industrial Relations of the State of California.

To the extent applicable, Contractor shall comply with the requirements of the California Labor Code including but not limited to hours of labor, nondiscrimination, payroll records, apprentices, workers' compensation and prevailing wages.

No less than the general prevailing rate of per diem wages, and not less than the general prevailing rate of per diem wages for holidays and overtime work, for each craft, classification or type of worker needed to execute the work under this Agreement shall be paid to all workers, laborers and mechanics employed in the execution of the work by the Contractor or any subcontractor doing or contracting to do any part of the work. The appropriate determination of the Director of the California Department of Industrial Relations shall be filed with, and available for inspection, at the City offices. Contractor shall post, at each job site, a copy of the prevailing rate of per diem wages. The Contractor shall forfeit fifty dollars (\$50.00) for each calendar day or portion thereof for each worker paid less than the stipulated prevailing rates for any public work done under the Agreement by it or by any subcontractor under Contractor.

The City reserves the right to request and review the contractor's payroll records in the form of certified payroll records. In the event certified payroll records are requested, they are to be submitted via email to aroberts@ci.antioch.ca.us. Furthermore, Contractor is to submit two sets: one complete and one redacted of private information [On the second copy the name, address and social security number of the individual employees must be redacted (blacked out).]

33. Appeals -- Any actual or prospective bidder, or contractor that has a grievance in connection with any City solicitation or award of contract may protest in writing pursuant to the provisions in Antioch Municipal Code section 3-4.03. Protestors are urged to seek resolution of their complaints initially with the using department.

34. Contract Documents - The work embraced herein shall be performed at the locations covered in this bid and in accordance with the current Standard Specifications of the State of California, Business and Transportation Agency, Department of Transportation. In addition to the State Specifications, the following will also apply: these Specifications; the Proposal; the Contract, required herein; any supplemental agreements amending or extending the work; working drawings or sketches clarifying or enlarging upon the work specified herein; and to pertinent portions of other documents included by reference thereto in these Specifications.

The Successful bidder shall be expected to agree to and comply with all terms addressed in the attached Sample Maintenance and Trade Services Agreement. The bidder shall not change the wording in the attached specifications or conditions. No words or comments shall be added to the general conditions or detailed specifications. Conditional bids cannot be accepted.

35. Insurance -- Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors.

All certificates and endorsements must be emailed to aroberts@ci.antioch.ca.us, with the name of the contract clearly identified on the certificates and endorsements AND annual renewals automatically be generated and emailed as instructed.

Minimum Scope of Insurance: Coverage shall be at least as broad as:

1. Insurance Services Office Commercial General Liability coverage (occurrence Form CG 00 01), Owners and Contractors Protective Liability Coverage Form – Coverage for Operations of Designated Contractor).
2. Insurance Services Office Form Number CA 0001 covering Automobile Liability, Code 1 (any auto).
3. Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance.
4. Builder's Risk (Course of Construction) insurance covering all risks of loss less policy exclusions.
5. See pages 5 & 6 in "Fillable Forms Section" for Acknowledgement of Insurance Requirements.

II SPECIFICATIONS

Customer Service & Quality Assurance

Any work or assigned duties that are not performed to our standards and/or contractual agreement may result in delay, reduction or discount at the contractors expense. The judgment for reduced payment or discount shall be at the City's sole discretion. In addition, the City may move to the next lowest responsible bidder if the City is not happy with the services or communication supplied by the contractor. All complaints about services rendered will be processed by the Deputy Public Works Director or designee/s.

Contractor Will Provide

- A safe and motivated crew capable of performing all work per specifications, with appropriate supervision.
- A plan to ensure the right equipment, material and appropriately trained workers are available. The contractor's equipment is to be of top quality and in good working order at all times.
- All labor, equipment, materials and PPEs that are required to perform the work as specified in a safe and productive manner; must train workers to use equipment safely.
- Fall protection training.
- Frequent and regular inspections of job sites, materials and equipment. Contractor agrees to provide and maintain all equipment required to perform the above services.
- Onsite safety, traffic control and quality control. Contractor must abide by all CalTrans specified traffic control standards.
- Dust Control: provide suitable means for dust control by applying either water or dust palliative for his operations within the limits of the work. In lieu of conflicting provisions of the Standard Specifications, full compensation for providing dust control shall be considered included in the prices paid for the various contract items of work, and no additional compensation shall be allowed therefore.
- Construction and Debris Recycling: On April 13, 2004 the Antioch City Council passed and adopted Ordinance No. 1018-C-S dealing with construction and demolition debris recycling. This ordinance requires a minimum 50% diversion of job site materials from the landfill and requires all contractors to submit a completed Waste Management Plan (WMP). Submission of the required WMP shall be done on a monthly basis as a condition of the progress payment for the contract.

WASTE MANAGEMENT PLAN *(Page 17 of 18, Fillable Forms Section)*

This project is covered under our new Construction & Demolition Recycling Ordinance. This ordinance requires that at least 50% of the construction and demolition (C&D) debris generated from the job-site be salvaged and/or recycled. Below are the general guidelines for the WMP process:

TO RECEIVE YOUR BUILDING PERMIT:

- Complete Page 1 and Section I of the WMP
- Contract and Property Owner's signatures are required
- Submit the WMP to the permit desk or directly to the WMP Compliance Official
- Once the submitted WMP is approved, your permit will be issued
- A copy of your approved WMP will be returned to you with your building permit

WHILE ON THE JOB:

- Keep records of all material reused, recycled or land filled from the site
- Official weight tags will need to be submitted with the final WMP prior to a final inspection
- Official weight tags must contain the 1) Job site address, 2) Weight of load, 3) Material types and 4) If the materials were recycled, salvaged or disposed
- Contact Julie Haas-Wajdowicz, at 925-779-7097 if you need any assistance or have questions

PRIOR TO RECEIVING YOUR FINAL INSPECTION:

- ❑ Complete Section II of the WMP
 - ❑ Submit the final WMP and all applicable documentation to the Building Dept 3 days before you want your final inspection for approval.
 - ❑ Once your final WMP is approved, a final inspection can occur.
- Works Schedule: After approval to start work the contractor is to supply the City representative with a work schedule that must include starting times, dates and locations. Contractor is to keep the City informed of working locations so that the City representative can inspect the work throughout the process. At least one crew member must speak English. All work must be in accordance with all state and local laws, codes and specifications.

Materials

All materials which the City Representative has determined do not conform to the requirements of the plans and specifications will be rejected, whether in place or not. They shall be removed immediately from the site of the work, unless otherwise permitted by the City Representative. No rejected material, the defects of which have been subsequently corrected, shall be used in the work, unless approval in writing has been given by the City Representative. Upon failure of the Contractor to comply promptly with any order of the City Representative made under the provisions in this section, the City Representative shall have authority to cause the removal and replacement of rejected material and to deduct the cost thereof from any moneys due or to become due the Contractor.

Substitution of Equals

Whenever in the plans or specifications, any material, equipment or process is indicated or specified by patent or proprietary name and/or by name of manufacturer, and the Contractor desires to offer a substitute material, equipment or process as the case may be, on the basis that the substitute is the equal in every respect to that so indicated or specified, then the Contractor shall first submit to the City Representative for his approval, such detailed plans and specifications and other data as the City Representative may deem necessary to enable him/her to determine if the substitute is the equal of that specified.

The City Representative shall in all cases be the judge as to whether the substitute offered is the equal in all respects of the material, equipment or process specified.

If the material, equipment or process offered by the Contractor is not, in the opinion of the Engineer, equal in every respect to that specified, then the Contractor must furnish the material, equipment or process specified, or one that in the opinion of the City Representative is the equal thereof in every respect.

If the material, equipment or process offered by the Contractor is, in the opinion of the Engineer, equal in every respect to that specified, and is approved for substitution, then the City shall receive the full benefit of any saving in cost to the Contractor, which might result in such substitution.

In the event that a material, equipment, or process is substituted in place of that specified, in accordance with the above, and such substitution, in the opinion of the Engineer, makes it necessary to change, alter, modify or redesign any unit or part of the plant or project, of which the substitution is a part, then the Contractor shall pay all costs, including engineering costs, occasioned by such change, alteration, modification or re-design.

Hours Of Operation

The Contractor shall have a representative available to meet with City of Antioch personnel during the normal City working hours, which are 7:00 a.m. to 4:00 p.m., Monday through Friday, except holidays. Contractor may work on Fridays or Saturdays with prior permission from City representative. Per Antioch Municipal Code, Section 5-17-05, construction noise is limited on weekdays, no construction noise prior to 7:00 am and after 6:00 pm, and further limited to 8:00 am and 5:00 pm if within 300 feet of occupied dwellings.

Payments & Invoicing

Invoices must list the City issued purchase order number and work order number of the corresponding job. All information is to be provided in email format and hard copy if directed so.

Contractor will be paid upon completion of work ONLY.

Timeframe

This project is to be completed in its entirety by May 30, 2020. A 60 day window of time shall be the maximum allowed between the start of work to its completion. Specific dates will be determined between the winning bidder and City staff.

Scope Of Work

The price quoted shall include compliance with all specifications listed above, and meet the following guidelines:

Setup

- Obtain all licenses and permits required by state and local agencies to complete the project.
- Attend pre job meeting to designate staging area, parking, crane usage and any other logistical issues that may arise.
- Erect and maintain all equipment to complete the task. This must also include protective devices to prevent workers or debris from falling over the side. Ensure all OSHA requirements and guidelines are adhered to at all times.

Removal

- Tear off existing roof material and clean surface thoroughly once all is removed.
- Remove all existing metal framing and counter flashing.
- Dispose of all materials following state and local regulations regarding hazardous materials handling.
- All materials removed become the property of and is the sole responsibility of the contractor.

Installation

Antioch WWTP A Plant and MCC Building

1. Remove and dispose of existing roofing.
2. Install one layer of ½” Dens Deck Prime fully adhered in Insul lock HR or pre-approved equal.
3. Install one layer of HPR Torch Base or pre-approved equal.
4. Install one layer of Stressply Plus IV UV Mineral Torch Cap or pre-approved equal.
5. Install two-ply modified on walls & base flashings.
6. Install new lead jacks on pipe penetrations.

7. Reuse existing coping metal. Install new Kynar skirt metal under coping cap metal.
8. Install White Knight Plus WC or pre-approved equal at a rate of 3 gallons per square in a two-coat application (1.5 & 1.5).

Built-Up/Metal Roofing Old Maintenance Yard

1. Remove and dispose of existing roofing. Inspect wood deck for any damage. Replace any damage and list the per sheet cost.
2. Install one layer of Rosin slip sheet.
3. Install one layer of ½” asphalt coated Fiberboard.

4. Install one layer of Flex Base 80 or pre-approved equal in hot asphalt.
5. Install one layer of Stressply EUV FR Mineral Cap in hot asphalt.
6. Install two-ply modified on walls & base flashings.
7. Install new Kynar metal edge and gutters.
8. Install White Knight Plus WC or pre-approved equal at a rate of 3 gallons per square in a two-coat application (1.5 & 1.5).

9. Remove and dispose of the existing metal roof panels.
10. Install new 5/8" plywood decking.
11. Install 1/2" Dens Deck.
12. Install one layer of RMER Seal underlayment or pre-approved equal.
13. Install Garland RMER Span Metal Roof system or pre-approved equal.
14. Install new 24g Kynar Finished gutter and downspouts.
15. Install all counterflashing and trim metal for a complete installation.

Antioch Maintenance Warehouse Roof:

1. Clean and prep existing roofing system.
2. Reseal all curb corners, roof penetrations, and splits as needed.
3. Install four new Air Vent solar fans and flash into roof.
4. Install Garland Pyramic Plus LO Roof Coating or pre-approved equal over the entire field of the roof at a rate of 3 gallons per 100 sq. ft. in a two-coat application.

Exterior Walls

1. Clean and prep exterior walls.
2. Install Garland Rust Go Primer or pre-approved equal at rate of 1/2 gallon per 100 sq. ft.

Final Details

- Remove all debris and leftover material from property.
- Schedule with City staff a final inspection of work completed.
- Obtain a final signoff on the building permit.
- Provide detail documentation of work completed and warranty information. Warranty must be for a minimum of 30 years. All documents required to be filled out by product manufacturer are the responsibility of the contractor.

Mandatory Pre Bid Meeting

A meeting will be held initially at the Maintenance Service Center (and other City locations), 1201 W 4th Street, Antioch, CA 94531, on Wednesday, February 19, 2018 at 9 am. During this time a City representative will be on site to provide further clarification of the scope of work. Detailed warranty information is to be submitted with the bid.

Pre Job Meeting

The winning bidder will be required to setup a meeting prior to any work being done or any equipment being placed on site. During this meeting the bidder will work with the City to setup staging areas, work hours, daily access, etc. At this time the winning bidder will be expected to provide a complete schedule to complete all necessary work.

Post Job Meeting

Once the bidder has finished the scope of work a meeting will be set for the bidder and the City to review all aspects of the job to ensure all requirements have been fulfilled.

Fillable Forms **Section**

BID SUBMITTAL SCHEDULE

CITY OF ANTIOCH
MULTIPLE SITE ROOF REPLACEMENT
Bid No. 770-0224-20A

III. BID SUBMITTAL SCHEDULE

Your Company Name: _____

Contact Name: _____

Contact Phone: _____

Contact Email: _____

COST COMPONENTS	Price	COST DETAILS/EXCEPTIONS
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
	TOTAL BID PRICE: \$ _____	

TOTAL BID PRICE: _____
(Written in Words)

All costs associated with the work required in the Plans and Specifications must be included in the bid items. This certifies that the prices in the proposal include all work as shown in the Plans and Specifications necessary to complete the work, in place and in full working order.

Signature of Bidder

Company Name Printed

**END OF BID SUBMISSION SCHEDULE
BID DECLARATION**

CITY OF ANTIOCH
MULTIPLE SITE ROOF REPLACEMENT
Bid No. 770-0224-20A

The undersigned bidder declares that it has carefully examined the locations of the proposed work, plans and specifications, special provisions and read the accompanying instructions to bidders. The undersigned submitter certifies that he/she is, at the time of presenting this Proposal, and shall be, throughout the length of the contract, licensed by the state of California to do the type of work required under the terms of the contract documents. Submitter further certifies that he/she is skilled and regularly engaged in the general class of work called for in the contract documents.

In accordance with the requirements, the submitter represents that he/she is competent, knowledgeable and has special skills on the nature, extent and inherent conditions of the work to be preformed. Submitter further acknowledges that there are certain peculiar and inherent conditions which may create, during maintenance operations, unusual or peculiar unsafe conditions hazardous to persons and property. Submitter acknowledges that he/she is aware of such risks and that he/she has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the maintenance services with respect to such hazards.

Does proposed bid conform to all requirements listed in this document and drawings? _____
If NO, explain non-conforming specifications in detail on separate sheet.

Terms or Cash Discount (if other than net 30 days)_____

Company Name_____ Sole Owner Partnership Corporation_____

Contact Name_____

Title_____

Address_____

City/State/Zip_____

Telephone_____ FAX_____

Email Address_____

Contractor's License No._____ Exp. Date_____

City of Antioch Business License No._____ Exp. Date_____

Signature_____ Date_____

Bid must be in a sealed envelope with the bid number, closing date, and time on the outside envelope.

DELIVER BID SUBMITTAL TO:

CITY OF ANTIOCH
PUBLIC WORKS
BID NO. 770-0224-20A
1201 W 4TH STREET
ANTIOCH, CA 94509

END OF BID DECLARATION SECTION

NON-COLLUSION CERTIFICATION

THIS PAGE MUST BE NOTARIZED

CITY OF ANTIOCH
MULTIPLE SITE ROOF REPLACEMENT
Bid No. 770-0224-20A

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

(In accordance with California Public Contract Code Section 7106 and Title 23 United States Code Section 112)

State of California)
)
County of _____) ss.

_____, being first duly sworn, deposes and says that he or she is _____ of _____, the party making the foregoing bid, that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the Contract or anyone interested in the proposed Contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly, or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid. The above Affidavit is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement.

By _____

Subscribed and sworn to before me,
a Notary Public in and for the
State of California, County of

_____, this _____ day of _____, 20_____.

(Seal)

Signature of Notary Public

My commission expires _____, 20_____

END OF NON-COLLUSION AFFIDAVIT SECTION

LIST OF SUBCONTRACTORS

**CITY OF ANTIOCH
 MULTIPLE SITE ROOF REPLACEMENT
 Bid No. 770-0224-20A**

The Bidder is required to furnish the following information in accordance with the provisions of Sections 4100 to 4114, inclusive, of the Public Contract Code of the State of California. This list and information shall include all subcontractors that will perform work, provide labor or render services to the Bidder in connection with the project in an amount in excess of one-half of one percent of the total amount of Bidder's Total Bid Price. Do not list alternative subcontractors for the same work. Use additional sheets if necessary.

NAME OF SUBCONTRACTOR	LICENSE NUMBER	LOCATION OF/ PLACE OF BUSINESS	TYPE & PERCENTAGE OF WORK
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

END LIST OF SUBCONTRACTORS SECTION

ACKNOWLEDGEMENT OF INSURANCE REQUIREMENTS**CITY OF ANTIOCH
MULTIPLE SITE ROOF REPLACEMENT
Bid No. 770-0224-20A**

INCLUDED IN THE BID PRICE IS FULL COMPENSATION
FOR PROCURING THE FOLLOWING REQUIRED INSURANCE
SUBJECT TO THE CONDITIONS AND ENDORSEMENTS
SET FORTH IN THE SPECIFICATIONS

Minimum Limits of Insurance: Contractor shall maintain limits no less than

1. Commercial General Liability (CGL): Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than **\$2,000,000** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
2. Automobile Liability: ISO Form Number CA 00 01 covering any auto (Code 1), or if Contractor has no owned autos, hired, (Code 8) and non-owned autos (Code 9), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.
3. Workers' Compensation: As required by the State of California.
4. Employer's Liability: **\$1,000,000** per accident for bodily injury or disease.

Additional requirements if applicable:

6. Builder's Risk: Completed value of the project with no coinsurance penalty provisions for construction project.
7. Professional Liability: \$1,000,000 as needed for design/build and other professional services.
8. Contractor's Pollution Legal Liability / Asbestos Legal Liability Insurance: of not less than the limits of (if Required – Typical for environmentally hazardous conditions or work): \$1,000,000 per occurrence, and \$2,000,000 policy aggregate, if hazardous materials are involved.

Deductibles and Self-Insured Retentions: Any deductibles or self-insured retentions must be declared to and approved by the City. At the option of the City, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the City, its officers, officials, employees and volunteers; or the Contractor shall provide a financial guarantee satisfactory to the City guaranteeing payment of losses and related investigations, claim administration, and defense expenses.

Other Insurance Provisions: The general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:

1. Additional Insured Status. The City, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Contractor's insurance (at least as broad as ISO Form CG 20 10

11 85 or if not available, through the addition of both CG 20 10 and CG 20 37 if a later edition is used).

2. *Primary Coverage.* For any claims related to this contract, the Contractor's insurance coverage shall be primary insurance as respects the City, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officers, officials, employees, or volunteers shall be excess of the Contractor's insurance and shall not contribute with it.
3. *Notice of Cancellation.* Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the City.
4. *Waiver of Subrogation.* Contractor hereby grants to City a waiver of any right to subrogation which any insurer of said Contractor may acquire against the City by virtue of the payment of any loss under such insurance. Contractor agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the City has received a waiver of subrogation endorsement from the insurer.
5. *Deductibles and Self-Insured Retentions.* Any deductibles or self-insured retentions must be declared to and approved by the City. The City may require the Contractor to purchase coverage with a lower deductible or retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Certificate of Insurance and Endorsements: Contractor shall furnish the City with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the City before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Contractor's obligation to provide them. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Acceptability of Insurers: Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII, unless otherwise acceptable by City.

Verification of Coverage: Contractor shall furnish the Entity with original certificates and amendatory **endorsements** affecting coverage required by this clause. All certificates and endorsements are to be received and approved by the Entity before work commences. However, failure to do so shall not operate as a waiver of these insurance requirements. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements affecting the coverage required by these specifications at any time.

Subcontractors: Contractor shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein.

Signature of Bidder/Title

Date

END OF ACKNOWLEDGEMENT OF INSURANCE REQUIREMENTS SECTION

BIDDER'S GUARANTY (BOND)

THIS PAGE MUST BE NOTARIZED

CITY OF ANTIOCH
MULTIPLE SITE ROOF REPLACEMENT
Bid No. 770-0224-20A

KNOW ALL PERSONS BY THESE PRESENTS:

That _____, as Principal, and _____, as Surety, are held and firmly bound unto the City of Antioch, hereinafter called CITY, in the sum of \$_____, being at least ten percent (10%) of the total amount of the bid, for the payment of which sum in lawful money of the United States of America to CITY we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The condition of the above obligation is such that, whereas the Principal has submitted said bid to CITY; NOW, THEREFORE, if the principal is awarded a Contract by CITY and, within the time and in the manner required by the Specifications, enters into a written Contract with CITY and furnishes the requisite bond or bonds and insurance certificates, then this obligation shall become null and void, otherwise to remain in full force and effect.

In the event suit is brought upon this bond by CITY and judgment is recovered, the Surety shall pay all costs incurred by CITY in such suit, including a reasonable attorney's fee to be fixed by the Court.

Dated _____, 20_____.

TO BE CONSIDERED COMPLETE, BOTH THE PRINCIPAL AND SURETY MUST SIGN THIS BIDDER'S BOND. IN ADDITION, THE SURETY'S SIGNATURE MUST BE NOTARIZED AND A COPY OF THE SURETY'S POWER OF ATTORNEY MUST BE ATTACHED.

Principal

By:_____

Surety

By:_____

Address of Surety

END OF BIDDER'S GUARANTY (BOND) SECTION

IRREVOCABLE STANDBY LETTER OF CREDIT

CITY OF ANTIOCH
MULTIPLE SITE ROOF REPLACEMENT
Bid No. 770-0224-20A

Date: _____

City of Antioch
200 "H" Street
Antioch, California 94531-5007

Re: Irrevocable Standby Letter of Credit No. _____

Director, Contracts & Procurement:

We hereby issue in your favor of the City of Antioch this Irrevocable Standby Letter of Credit for the account of _____, a (insert nature of organization, whether sole proprietorship, partnership, corporation), in the amount of _____, (\$_____), which is available upon your demand when accompanied by a signed statement from an officer of the City of Antioch, stating that:

The amount drafted is due to the City of Antioch because of the failure of _____ to enter into a written Contract awarded to it by City of Antioch, or to furnish the requisite bond(s) and insurance certificates within the time and in the manner required by the Contract Documents and Specifications.

We hereby agree with the drawers and/or bona fide holders that drafts drawn and negotiated in conformity with the terms of this Letter of Credit will be duly honored upon presentation when presented on or before _____. Partial drawings are permitted.

Except so far as otherwise expressly stated, this credit is subject to the Uniform Customs and Practice for Documentary Credits (1993 Revision) of the International Chamber of Commerce Publication No. 500.

Sincerely,

(Name of financial institution)

By _____
(Signature)

Title: _____

END OF IRREVOCABLE STANDBY LETTER OF CREDIT

BIDDER'S STATEMENT OF QUALIFICATIONS AND BUSINESS REFERENCES

**CITY OF ANTIOCH
MULTIPLE SITE ROOF REPLACEMENT
Bid No. 770-0224-20A**

Name Bidder _____

Address of Principal Office _____

Are you an individual _____, a partnership _____, or a corporation _____ ? Other: _____

(Check as applicable)

If a partnership, list names and addresses of partners; if a corporation, list names of officers and directors and State of incorporation.

2. Are you licensed as a Contractor to do business in California? _____

License No. _____ Classification _____

For the following questions, if a joint venture, give information for each of the venturers, by name. Attach additional sheets if necessary.

3. How many years has your organization been in business as a Contractor under your present business name: _____

4. How many years of experience has your organization had in construction work similar to the work you are interested in bidding?

(a) As a general contractor? _____

(b) As a subcontractor? _____

5. Show all the projects your organization has completed during at least the last five years in the following tabulation: If your organization has been in existence for less than five years, show all the projects your key personnel have completed during the last five years in the following tabulation. (For joint venture work show the sponsoring individual or company). Attach additional sheets if necessary.

Year	Type of Work	Value of Work	Location	For Whom
------	--------------	---------------	----------	----------

6. Have you or your organization, or any officer or partner thereof, failed to complete a contract? _____
If so, give details. Attach additional sheets if necessary.

7. In what other lines of business are you financially interested? Attach additional sheets if necessary.

8. Name the persons with whom you have been associated in business as partners or business associates in each of the last five years. Attach additional sheets if necessary.

9. Give information below about the relevant experience of the principal individuals of your present organization including those individuals to be in responsible charge of this project. Attach additional sheets if necessary.

Individual's Name	Present Position of Office	Years of Construction Experience	Magnitude and Type of Work	In What Capacity

10. Give information below about all your contract work underway, or for which you are committed. Attach additional sheets if necessary.

Type of Work	Location	Value	Percent Complete	Scheduled Completion Date	For Whom Performed

11. References: Give only engineers, architects, or owners, including public bodies, for whom you have done work: Attach additional sheets if necessary.

Name	Address	Business
_____	_____	_____
_____	_____	_____
_____	_____	_____

12. References: The following bank or banks can provide references as to the financial responsibility of the Bidder: Attach additional sheets if necessary.

- (a) Name of Bank: _____
 Address: _____
 City and State _____ Telephone _____
 Officer Familiar with Bidder's Account: _____
- (b) Name of Bank: _____
 Address: _____
 City and State _____ Telephone _____
 Officer Familiar with Bidder's Account: _____
- (c) Name of Bank: _____
 Address: _____
 City and State _____ Telephone _____
 Officer Familiar with Bidder's Account: _____

13. References: The following surety company or companies can provide references as to the financial responsibility and general reliability of the Bidder: Attach additional sheets if necessary.

- (a) Name of Surety Company: _____
 Name of Local Agent (if different) _____
 Local Address: Street _____
 City and State _____ Telephone _____
 Person Familiar with Bidder's Account: _____
- (b) Name of Surety Company: _____
 Name of Local Agent (if different) _____
 Local Address: Street _____
 City and State _____ Telephone _____
 Person Familiar with Bidder's Account: _____

14. Is any litigation pending against your organization? _____

If so, give details. Attach additional sheets if necessary.

15. Is any disciplinary action from a licensing board pending against your organization? _____

If so, give details. Attach additional sheets if necessary.

The undersigned bidder represents and warrants that the foregoing information is true and accurate to the best of its knowledge and the undersigned intends that the City rely thereof in awarding the attached contract.

Signature of Bidder

Title

Dated: _____, 20____

END OF BIDDER'S STATEMENT OF QUALIFICATIONS AND BUSINESS REFERENCES SECTION

Bid No. 770-0224-20A



ANTIOCH CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING ORDINANCE WASTE MANAGEMENT PLAN (WMP)

Project No. _____
[] Initial WMP Approved
[] Final WMP Approved
[] Waived
[] Not Approved
Staff Initials: _____
For City use only

Antioch C&D Recycling Ordinance requires at least 65% diversion of job-site waste materials from the landfill. More information about this ordinance can be found at http://www.ci.antioch.ca.us/Environment/CDROrdinance.htm

Please answer the following:

1.

Table with 2 columns and 10 rows: Property Owner Name/Ph.#, Job-site Address, Name of Project Manager, Project Name/Description, Contractor's Name/Address, Contractor's Phone Number, Cellular Phone Number, Fax Number, Email Address.

2. Briefly state how materials will be sorted for recycling and/or salvage on the job site.

3. Will this project require the use of sub-contractors? Yes ____ No ____

4. If yes, briefly state how you plan to inform and ensure participation by the sub-contractors of your job-site recycling and waste management responsibility.

5. Section I (next page):

- Identify the type of job-site waste materials to be recycled, salvaged or disposed of.
- Identify how materials will be handled, who will haul materials and what facility materials will be going to.
- Contractor and/or Property Owner must sign in the spaces provided prior to initial WMP approval.

6. Section II (next page):

- Upon completion of project, fill this section out with supporting documentation such as: receipts, spreadsheets, etc...

**CITY OF ANTIOCH
MULTIPLE SITE ROOF REPLACEMENT
Bid No. 770-0224-20A**

WASTE ASSESSMENT

Section I. BEFORE START OF PROJECT: **Identify the materials that you estimate will be recycled, salvaged or land-filled. Identify the handling procedure, hauler and destination of each material type.**

Section II. UPON COMPLETION OF PROJECT: **Indicate the material types and quantities recycled, salvaged or land-filled from this job-site.** Official weight tags must be submitted with this completed report **identifying 1) job site address, 2) weight of load(s), 3) material type(s), and 4) if materials were recycled, salvaged or disposed.** Samples of official weight tags can be found at <http://www.ci.antioch.ca.us/Environment/CDROrdinance-faq.htm>.

Material Type	Section I			Handling Procedure, Hauler, Final Destination of Materials	Section II			City use only Acceptable weight tag (staff initials)
	Identify Materials (✓)				Quantity of each material (by weight)			
	Recycle	Salvage	Landfill		Recycled	Salvaged	Land-filled	
Asphalt & Concrete								
Brick, Tile								
Building materials-doors, windows, fixtures, cabinets								
Cardboard								
Dirt/Clean Fill								
Drywall								
Carpet padding/ Foam								
Plate/window Glass								
Scrap Metals (steel, aluminum, brass, copper, etc.)								
Unpainted Wood & Pallets								
Yard Trimmings (brush, trees, stumps, etc.)								
Other:								
Garbage								

If less than 65% or no waste materials are targeted for recycling or salvage, please state why:

Contractor's Signature/Date

Property Owner's Signature/Date

PAYMENT BOND (IF SELECTED)

THIS PAGE MUST BE NOTARIZED

**CITY OF ANTIOCH
MULTIPLE SITE ROOF REPLACEMENT
Bid No. 770-0224-20A**

KNOW ALL PERSONS BY THESE PRESENTS, that

WHEREAS, the CITY OF ANTIOCH, (hereinafter referred to as "City") and _____, (hereinafter referred to as "Principal") have entered into a Contract for the _____; and

WHEREAS, under the terms of said Contract, Principal is required to furnish a bond securing payment of the claims to which reference is made in Section 3248 of the Civil Code,

NOW, THEREFORE, we, the Principal, and _____ as Surety, are held and firmly bound unto the City in the penal sum of _____ Dollars (\$ _____) lawful money of the United States, being not less than one hundred percent (100%) of the amount payable by the terms of the Contract, for the payment of which sum well and truly to be made we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

The condition of this obligation is such that if said Principal or any of its subcontractors fails to pay any of the persons named in Section 3181 of the Civil Code, or amounts due under the Unemployment Insurance Code with respect to work or labor performed under the Contract, or for any amounts required to be deducted, withheld, and paid over the Employment Development Department from the wages of employees of the Principal or its subcontractors pursuant to Section 13020 of the Unemployment Insurance Code, with respect to such work and labor, the Surety will pay for the same and also will pay, in case suit is brought upon this bond, a reasonable attorney's fee, to be fixed by the court.

This bond will insure to the benefit of any of the persons named in Section 3181 of the Civil Code so as to give a right of action to such persons or their assigns if any suit is brought upon this bond.

This bond is given to comply with Sections 3247 and 3248 of the Civil Code. The liability of the Principal and Surety hereunder is governed by the provisions of said Code, all acts amendatory thereof, and all other statutes referred to therein, including Section 3225 of the Civil Code.

The Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the Specifications.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their seals this day of _____, 20__, the name and corporate seal of each corporate body being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Principal)

By _____
Signature

Print Name

Title

*Note:
To be signed by Principal
and Surety and acknowledgment
and notarial seal attached.*

(Surety)

(Address)

By _____
Signature

Print Name

Title

END OF PAYMENT BOND SECTION

PERFORMANCE BOND (IF SELECTED)

THIS PAGE MUST BE NOTARIZED**CITY OF ANTIOCH
MULTIPLE SITE ROOF REPLACEMENT
Bid No. 770-0224-20A**

KNOW ALL PERSONS BY THESE PRESENTS, that

WHEREAS, the CITY OF ANTIOCH, (hereinafter referred to as "City") has entered into a Contract with _____, (hereinafter referred to as "Principal"), for construction of the _____ (the "Contract"); and

WHEREAS, the Principal is required under the terms of the Contract to furnish a bond of faithful performance of the Contract.

NOW, THEREFORE, we, the undersigned Principal, and _____, as Surety, are held and firmly bound unto the City, in the sum of _____ Dollars (\$_____) lawful money of the United States, to be paid to the City or its successors and assigns; for which payment, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above-bound Principal, or its heirs, executors, administrators, successors, or assigns approved by the City, shall promptly and faithfully perform the covenants, conditions and agreements in the Contract during the original term and any extensions thereof as may be granted by the City, with or without notice to Surety, and during the period of any guarantees or warranties required under the Contract, and shall also promptly and faithfully perform all the covenants, conditions, and agreements of any alteration of the Contract made as therein provided, notice of which alterations to Surety being hereby waived, on Principal's part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify, defend, protect, and hold harmless the City as stipulated in the Contract, then this obligation shall become and be null and void; otherwise it shall be and remain in full force and effect.

No extension of time, change, alteration, modification, or addition to the Contract, or of the work required thereunder, shall release or exonerate Surety on this bond or in any way affect the obligation of this bond; and Surety does hereby waive notice of any such extension of time, change, alteration, modification or addition.

Whenever Principal shall be and declared by the City to be in default under the Contract, Surety shall promptly remedy the default, or shall promptly do one of the following at City's election:

1. Undertake through its agents or independent Contractors, reasonably acceptable to the City, to complete the Contract in accordance with its terms and conditions and to pay and perform all obligations of Principal under the Contract, including without limitation, all obligations with respect to warranties, guarantees, and the payment of liquidated damages; or
2. Reimburse the City for all costs the City incurs in completing the Contract, and in correcting, repairing or replacing any defects in materials or workmanship and/or materials and workmanship which do not conform to the specifications in the Contract.

Surety's obligations hereunder are independent of the obligations of any other surety for the performance of the Contract, and suit may be brought against Surety and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing the City's rights against the others.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the City or its successors or assigns.

In the event suit is brought upon this bond by the City, Surety shall pay reasonable attorney's fees and costs incurred by the City in such suit.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their seals this day of _____, 20____, the name and corporate seal of each corporate party being hereto affixed and these presents duly executed by its undersigned representative, pursuant to authority of its governing body.

Principal

By _____

Note:

To be executed by Principal and Surety with acknowledgment and notarial seal attached.

By _____

Surety

Address

By _____

By _____

END OF PERFORMANCE BOND SECTION

SECTION 01640
OWNER FURNISHED PRODUCTS

City Of Antioch

PART 1 - GENERAL

1. **SUMMARY**

- A. **DESCRIPTION:** The Owner shall procure and provide certain products for installation as shown and specified per Contract Documents.
- B. **RELATED WORK SPECIFIED ELSEWHERE:**
 - 1. **General:** Products furnished and paid for by the Owner are described in the following technical sections and /or in the Drawings.
 - 2. **CITY SUPPLIED MATERIAL**
Note that this project includes the installation of owner-supplied material; the CITY has acquired roofing material through the CMAS (California Multiple Award Schedules) program

2. **DEFINITIONS**

- A. **GENERAL:** The following are used to identify products as noted on the Drawings.
- B. **OWNER FURNISHED CONTRACTOR INSTALLED (O.F.C.I.):** Products or equipment furnished by the Owner for installation under this contract.
- C. **OWNER FURNISHED OWNER INSTALLED (O.F.O.I.):** Products or equipment to be provided and installed by the Owner, but requiring surfacing, backing, utility connections or other preparation under this contract, for proper installation.
- D. **NOT IN CONTRACT (N.I.C.):** Products or equipment to be provided and installed by Owner, not requiring surfacing, backing, utility connections or other preparation under this contract.

PART 2 - PRODUCTS

1. **PRODUCTS**

- A. **ROOFING MATERIAL FURNISHED BY OWNER (O.F.C.I.):** District supplied material through the CMAS (California Multiple Award Schedules) program. Related specification sections include;
Section 075500 - Modified Bituminous Membrane Roofing
Section 075630 - Restoration for Mineral Surface BUR
Section 074113 - Metal Roof Panels
Section 075360 - Modified Bitumen Roofing

B. MATERIAL LIST

Antioch Maintenance Warehouse Restoration

1. 3--Pyramic Plus LO (55gal)
2. 10-- Polyester 6"
3. 4-- Unibond 4"
4. 10-Tuff-Stuff Caulking
5. 7-- Rust Go Primer (5gal)
6. 13- Rust Go Top Coat (5gal)
7. 1-- Kee Lock (3gal)

Antioch Water Treatment Plant Replacement

1. 185- Stressply Plus IV UV Mineral
2. 140- HPR Torch Base
3. 10- Flashing Bond
4. 30- Tuff Stuff Caulking
5. 72- White Knight Plus WC (5gal)
6. 17- 24ga. Flat Stock Metal
7. 4- Tuff Flash (3gal)
8. 21- Insulock HR

Old Maintenance Yard BUR/Metal Replacement

1. 20- StressPly EUV FR Mineral
2. 17- Flexbase Plus 80
3. 3- Flashing Bond (5gal)
4. 6- White Knight Plus WC (5gal)
5. 5- Tuff Stuff Caulking
6. 31 sheets- 24ga. Flat Stock
Metal
7. 3700 sq ft- 24ga. 18" Rmer
Span
8. 20- RMER Seal

Any material or accessories required for the installation of the roof system in excess of the district provided material must be supplied by the Contractor. It is up to the Contractor to determine the precise amount of material required for the completion of this project; and to provide excess material, as required. The cost to handle and break flashing metal from the District provided flat stock is contractor's responsibility.

PART 3 - EXECUTION

2. OWNER'S RESPONSIBILITIES

- A. **SUBMITTALS:** Arrange for and deliver necessary shop drawings, product data and samples to Contractor.
- B. **DELIVERY:**
 - 1. **General:** Arrange and pay for product delivery to site, in accordance with construction schedule.
 - 2. **Bill of Materials:** Deliver supplier's documentation to Contractor.
 - 3. **Inspection:** Inspect jointly with Contractor.
 - 4. **Claims:** Submit for transportation damage and replacement of otherwise damaged, defective, or missing items.
- C. **GUARANTEES:** Arrange for manufacturer's warranties, bonds, service, inspections, as required.

3. CONTRACTOR'S RESPONSIBILITIES

- A. **SUBMITTALS:** Review shop drawings, product data and samples and submit to Architect with notification of any discrepancies or problems anticipated in use of product.
- B. **DELIVERY:**
 - 1. **General:** Designate delivery date for each product in Progress Schedule.
 - 2. **Receiving:** Receive and unload products at site. Handle products at site, including uncrating and storage.
 - 3. **Inspection:** Promptly inspect products jointly with Owner; record shortages, damaged or defective items.
 - 4. **Storage:** Protect products from damage or exposure to elements.
- C. **INSTALLATION:**
 - 1. **General:** Assemble, install, connect, adjust and finish products, as stipulated in the respective section of Specifications.
 - 2. **Repair and Replacement:** Items damaged during handling and installation are responsibility of contractor.

* End Section 01640 *

SECTION 07563
RESTORATION FOR MINERAL SURFACE BUR

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Provide all labor, equipment, and materials to install a cold applied, modified asphalt and Acrylic based, restoration system over the properly prepared Metal roof system. Scope of work shall include but not be limited to:
1. Power wash the entire roof surface with commercial cleaning equipment.
 2. Prime entire roof surface with primer at a rate of ½ gallon per square.
 3. Reseal all pipe penetrations with a 3 course application of mastic/mesh.
 4. Restrip drains with a 3 course application of polyurethane and polyester.
 5. Apply two coats of Title 24 approved white roof acrylic/urethane hybrid at 3 gallons per square. 1.5 Gallons Per Coat
 6. Apply Rust Inhibiting Primer/Top Coat to all exterior walls applications at 3 gallons per square.(see roof plan)
 7. Coat all gutters with 3 coat application of rust inhibiting primer, aliphatic Urethane base coat, and aliphatic urethane top coat. Embed poly tape reinforcement at all gutter joints
 8. Tie-ins, details, clean up, etc.

1.2 RELATED SECTIONS

- A. Drawings and general provisions of the Contract, including General Supplementary Conditions and Division 1 Specification Sections apply to this section.

1.3 REFERENCES

ASTM D - 41	Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing
ASTM D - 1079	Terminology Relating to Roofing, Waterproofing, and Bituminous Materials
ASTM D - 2822	Specification for Asphalt Roof Cement
ASTM D - 5147	Specification of SBS Modified Membranes
ASTM E - 108	Test Methods for Fire Test of Roof Coverings
FM	Factory Mutual
NRCA	National Roofing Contractors Association
UL	Underwriters Laboratories

1.4 SUBMITTALS

- A. Submit under provisions of the Submittals Section. Must be submitted and approved by the Architect one week prior to bid in order to be considered as an acceptable system for bidding.
- B. Product Data for each type of product specified include manufacturer's technical product data, installation instructions, and recommendations for each type of

restoration product required. Include data substantiating that materials comply with specified requirements.

- C. Any material submitted as an equal to specified material must also submit a list of three jobs where the proposed material has been used in a similar roofing system as that which is specified and within a one hundred mile radius from the location of the specified job. In addition, the three jobs must be at least three years old and be available for the Owner or Owner's Representative to inspect.
- D. Show evidence that the products and materials are manufactured in the United States and that materials provided conform to all requirements specified herein, and are chemically and physically compatible with each other and are suitable for inclusion within the total restoration system specified herein.
- E. Show evidence that the Installer specializes in bituminous roof restoration application with a minimum 5 years experience and who is certified by the roofing system manufacturer as qualified to install manufacturer's roofing materials.
- F. Unexecuted Manufacturer's warranty.
- G. Certified copy of ISO 9001 compliance.
- H. Any deficiencies in performance, warranty terms or improper submittal procedure will constitute grounds for immediate rejection of alternate.

1.5 QUALITY ASSURANCE

- A. **Manufacturer Qualifications:** Roofing system manufacturer shall have a minimum of 10 years experience in manufacturing bituminous roofing products in the United States and be ISO 9001 certified. Reinforced coating system shall possess an ASTM E-108 Class A fire rating.
- B. **Installer Qualifications:** Installer (Roofing) shall be specializing in roof application with minimum 5 years experience and who is certified by the roofing system manufacturer as qualified to install manufacturer's roofing materials.
- C. **Installer's Field Supervision:** Require Installer to maintain a full-time Supervisor/Forman on job site during all phases of bituminous sheet roofing work and at any time roofing work is in progress, proper supervision of workmen shall be maintained. A copy of the specification shall be in the possession of the Supervisor/Foremen and on the roof at all times.
- D. It shall be the Contractor's responsibility to respond immediately to correction of roof leakage during construction.
- E. **Insurance Certification:** Assist Owner in preparation and submittal of roof installation acceptance certification as may be necessary in connection with fire and extended coverage insurance on roofing and associated work.
- F. **Pre-application Roofing Conference:** Approximately 2 weeks before scheduled commencement of roof system installation and associated work, meet at Project site with Installer, installer of each component of associated work, installers of deck or

substrate construction to receive roofing work, Owner, roofing system manufacturer's representative, and other representatives directly concerned with performance of the Work. Objectives to include:

1. Review foreseeable methods and procedures related to roofing work.
2. Tour representative areas of roofing substrates (decks), inspect and discuss condition of substrate, roof drains, curbs, penetrations, and other preparatory work performed by other trades.
3. Review structural loading limitations of deck and inspect deck for loss of flatness and for required attachment.
4. Review roofing systems requirements (drawings, specifications, and other contract documents).
5. Review required submittals, both completed and yet to be completed.
6. Review and finalize construction schedule related to roofing work and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver products to site with seals and labels intact, in manufacturer's original containers, dry and undamaged.
- B. Store and handle roofing sheets in a dry, well-ventilated, weather-tight place to ensure no possibility of significant moisture exposure. Store rolls sheet materials on pallets or other raised surface. Stand all roll materials on end. Cover roll goods with a canvas tarpaulin or other breathable material (not polyethylene).
- C. Do not leave unused rolled goods on the roof overnight or when roofing work is not in progress unless protected from weather and other moisture sources.
- D. It is the responsibility of the contractor to secure all material and equipment on the job site. If any material or equipment is stored on the roof, the contractor must make sure that the integrity of the deck is not compromised at any time. Damage to the deck caused by the contractor will be the sole responsibility of the contractor and will be repaired or replaced at his expense.

1.7 MANUFACTURERS INSPECTIONS

- A. When the project is in progress, the Roofing System Manufacturer will provide the following:
 1. Keep the Architect and Owner informed as to the progress and quality the work as observed.
 2. Provide job site inspections a minimum of three days a week.
 3. Report to the Owner in writing, any failure or refusal of the Contractor to correct unacceptable practices called to the Contractor's attention.
 4. Confirm, after completion of the project and based on manufacturer's observations and tests, that manufacturer has observed no applications procedures in conflict with the

specifications other than those that may have been previously reported and corrected.

1.8 PROJECT CONDITIONS

- A. Weather Condition Limitations: Do not apply materials during inclement weather or when a 40% chance of precipitation is expected.
- B. Materials shall be stored at room temperature until immediately prior to application when the ambient temperature is 40° F or below. Discontinue the application if the material can not be stored at a temperature which permits even distribution during application
- C. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed during same day.
- D. Proceed with roofing work only when existing and forecasted weather conditions will permit unit of work to be installed in accordance with manufacturer's recommendations and warranty requirements.
- E. When applying materials with spray equipment, take precautions to prevent overspray from damaging or defacing surrounding walls, building surfaces, vehicles or other property.
- F. Avoid inhaling spray mist; take precautions to ensure adequate ventilation.
- G. Protect completed roof sections from foot traffic until fully cured.

1.9 SEQUENCING AND SCHEDULING

- A. Sequence application of coating with related units of work specified in other sections to ensure that roof assemblies, including roof accessories, flashing, trim, and joint sealers, are protected against damage from effects of weather, corrosion, and adjacent construction activity.
- B. All work must be fully completed on each day.

1.10 WARRANTY

- A. Coating System Manufacturer: Upon completion of installation and acceptance by the Owner, the manufacturer will supply to the Owner a 10 year leak warranty.
- B. Contractor will submit a minimum of a three year warranty to the system manufacturer with a copy directly to Owner.
- C. All components of the coating system including primer, mastic, mesh, polyurethane coating, polyether flashing adhesive, polyester, modified turn up base flashings, and Title 24 coating shall be manufactured by a single source of manufacture, providing the owner with ensured product compatibility and a single source of liability against leaks for a period of 10 years.

PART 2 PRODUCTS

2.1 GENERAL

- A. When a particular trade name or performance standard is specified it shall be indicative of a standard required.
- B. The coating system's performance characteristics are based on the Pyramic Plus LO Coating System as manufactured by The Garland Company. Area Rep.: Joe Salazar (925) 890-6509. Bidders proposing substitutes shall submit and have approved all required information under the Submittals Section to the District at least 10 days prior to bid due date.
- C. Any item or materials submitted as an alternate to the manufacturer specified must comply in all respects as to the quality and performance of the brand name specified. The Owner shall be the sole judge as to whether or not an item submitted as an equal is truly equal. Should the contractor choose to submit on the equal basis, he shall assume all risk involved, monetary or otherwise, should the Owner find it unacceptable.

2.2 BITUMINOUS MATERIALS

- A. Asphalt Primer: V.O.C. compliant, ASTM D-41. Garla Block or equal.
- B. Asphalt Roofing Mastic: V.O.C. compliant, ASTM D-2822, Type II. Flashing Bond or equal.
- C. Polyether Flashing Adhesive: V.O.C. compliant, ASTM D-512. Keelock Mastic or equal.
- D. Title 24 Acrylic Coating: V.O.C. compliant, ASTM D-2370. Pyramic Plus LO or equal.
- E. Aliphatic Urethane Coating: V.O.C. compliant, ASTM D-412 White Knight Plus WC or equal.
- F. Rust Inhibiting Primer: V.O.C. compliant, ASTM D-41 Rust Go Primer or equal
- G. Rust Inhibiting Top Coat: V.O.C. compliant, ASTM D-2370 Rust Go Top Coat or equal

2.3 REINFORCEMENT

- A. Drain Reinforcement: soft polyester mat. Grip Poly soft or equal.
- B. Field Splits: Anomalies under 6" in diameter: Fiberglass mesh. Garmesh or equal.
- C. Curb Flashings: SBS modified membrane. Stressply Plus FR Mineral or equal.
- D. Gutter Joint Reinforcement: Pressure sensitive tape. Unibond ST or equal

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrate surfaces to receive coating and associated work and conditions under which roofing will be installed. Do not proceed with roofing until unsatisfactory conditions have been corrected in a manner acceptable to Installer.

3.2 GENERAL INSTALLATION REQUIREMENTS

- A. Cooperate with manufacturer, inspection and test agencies engaged or required to perform services in connection with installing the maintenance system.
- B. Insurance/Code Compliance: Where required, install and test the roofing system to comply with governing regulations and specified insurance requirements.
- C. Protect other work from spillage of roofing materials, and prevent materials from entering or clogging drains and conductors. Replace or restore other work damaged by installations of the roofing system.
- D. Coating shall be applied per manufacturers application instructions for the type of coating used.
- E. Apply roofing materials as specified herein unless recommended otherwise by manufacturer's instructions. Keep roofing materials dry before and during application. Do not permit phased construction.

3.3 CLEANING AND SURFACE PREPARATION

- A. All defects such as deteriorated roof decks must be repaired or replaced prior to beginning the restoration system application.
- B. Remove any foreign debris from the roof surface prior to pressure washing.
- C. Do not damage roof membrane in cleaning process. Pressure wash the roof with commercial cleaning equipment to provide a clean surface for coating application.
- D. Apply primer to roof surface at a rate of 1/2 gallon per one hundred (100) square feet.
- E. All surface defects (cracks, blisters, tears) must be repaired:
 - 1. Blister/Split Repair
 - a. Spud all delaminated ply back to the point of solid asphalt attachment. Clean the area with a roof brush. Prime the area at a rate of 1/2 gallon/square with asphalt primer.
 - b. All blisters must be cut and opened down to the solidly adhered plies of the existing roof system. Use a roofer's knife to open the blister with an "X" or "H" cut. Fold the flaps and remove any existing moisture. Permit the area to dry before applying repair materials.
 - c. Apply a liberal coating of bituminous material into the blister. Firmly press the flaps into the bituminous material and trim the edges to ensure proper fit.
 - d. Apply:
 - 1) Anomalies less than 6" in diameter: A coating of bituminous material over the repaired area extending a minimum of eight (8) inches beyond the cuts. Embed a strip of mesh into the bituminous material and

- brush or roll firmly. Apply a second coat of bituminous material over the fabric and onto the roof surface.
- 2) Anomalies over 6" in diameter: Adhere one (1) ply of smooth surface SBS membrane in cold adhesive. Strip in the edges with a three course mastic and mesh application.
2. Roof Penetrations
 - a. Clean the outside of the jack out twelve (12) inches onto the field of the roof. Prime the area with asphalt primer.
 - b. Apply a liberal coating of mastic around the jack extending a minimum of six (6) inches onto the horizontal roofing surface.
 - c. Cut four (4) strips of mesh. Each strip should be six (6) inches wide and be of sufficient length so as to extend a minimum of six (6) inches beyond the jack.
 - d. Embed a strip into the mastic along each side of the jack. Brush or roll the mesh into place to ensure proper embedment.
 - e. Top dress the area with mastic.
 3. Turn Up Base Flashing Detail Repair
 - a. All Flashings shall receive a layer of smooth SBS modified membrane over the existing primed base flashing. Extend a minimum 6" onto the field of the roof.
 - b. Set modified membrane in polyether adhesive at a rate of 2-3 gal/sq.

3.4 COATING APPLICATION

- A. Brush or spray Low VOC Acrylic coating onto the roof surface at a rate of:
 1. Three (3) gallons of coating material per one hundred (100) square. Coating must be applied in a 2 coat application of 1.5 Gallons per coat allowing for proper cure time between coats.

3.5 FINAL INSPECTION

- A. At completion of roofing installation and associated work, meet with Installer, installer of associated work, Owner, roofing system manufacturer's representative, and other representatives directly concerned with per performance of roofing system.
- B. Walk roof surface areas of the building, inspect perimeter building edges as well as flashing of roof penetrations, walls, curbs and other equipment. List all items requiring correction or completion and furnish copy of list to each party attending.
- C. Repair or replace (as required) deteriorated or defective work found at time above inspection to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- D. The Contractor is to notify the Owner upon completion of corrections.
- E. Following the final inspection, acceptance will be made in writing by the material manufacturer.

3.6 Owner Supplied Material:

A. Contractor must submit to the Owner as part of the submittal package all quantities of owner supplied materials needed to complete this project per specification section 075200 a minimum of (6) weeks prior to project start date. Contractor must provide all labor to install owner supplied materials as part of their bid. All materials not specifically included in the owner supplied materials section will be the responsibility of the contractor to provide and install in compliance with section 07520. Contractor must return all overages to the Owner and under estimated quantities will be the full responsibility of the contractor to supply and install in full compliance with this section. Freight charges of Owner supplied materials will be the responsibility of the Owner. Contractor must take delivery of materials, properly cover and store at jobsite in a secured container Contractor must be able to provide certification in writing from roof system manufacturer that the contractor is approved to install the specified roof system and provide all warranty requirements of section 07520.

B. Materials specifically provided by the Owner thru the CMAS program;

10 - Tuff Stuff Sealant 10.3oz Tubes
3 – Pyramic top coat 55 gal
7 – Rust Go Primer 5 gal
13—Rust Go Top Coat 5 gal
1– KeyLock Flashing Adhesive 3.5 gal
4 –Unibond 4” roll
10-Polyester Soft-6” roll

END OF SECTION

SECTION 07 41 13
METAL ROOF PANELS

PART 1 – GENERAL

1.01 DESCRIPTION:

- A. Work described in this section includes factory finished complete Class A preformed metal roofing system including clips, perimeter and penetration flashing, ridge cap, edge stiffeners, closures, ridge cap, drip stiffener and gutters. (including gutter expansion joints).

1.02 SUBMITTALS: Comply with requirements of Submittal Section 01 33 00.

- A. Shop Drawings: Show roofing system with flashings and accessories in plan and elevation; sections and details. Include metal thickness' and finishes, panel lengths, joining details, anchorage details, flashings and special fabrication provisions for termination and penetrations. Indicate relationships with adjacent and interfacing work. Shop drawings must be completed by the metal panel manufacturer's engineering department. Any and/or all changes recommended by the successful bidder must be approved by the manufacturer in writing prior to submittal.
- B. Product Data: Include manufacturer's detailed material and system description, sealant and closure installation instructions, engineering performance data and finish specifications.
- C. Design Test Reports:
 - 1. Indicate fastener types of spacings; and provide fastener pullout values.
 - 2. Submit copy of manufacturer's minimum design load calculations according to ASCE-7-10.
 - 3. Submit copy of certification from manufacturer stating that specified system has been tested in accordance with ASTM-1592 requirements by an independent Engineering Firm. All test results must be submitted including Air (ASTM E 283) Infiltration Tests. These test results must meet or exceed those listed in Section 1.8 (Design and Performance Criteria) and be stamped by an independent Engineering Firm.

1.03 INSTALLER QUALIFICATIONS:

- A. Installer:
 - 1. Engage an experienced metal roofing contractor (erector) to install standing seam system who has a minimum of three (3) years experience specializing in the installation of structural standing seam metal roof systems.
 - 2. Contractor must be certified by manufacturer specified a supplier of structural standing seam system and obtain written certification from manufacturer that installer is approved for installation of specified system. If requested, contractor must supply owner with a copy of this certification.
 - 3. Successful contractor is required to maintain a full-time supervisor/foreman who is on the job-site at all times during installation of new roof system. Foreman

must have a minimum of five (5) years' experience with the installation of system similar to that specified.

1.04 MANUFACTURER QUALIFICATIONS:

- A. The materials outlined in the Material and Method Specifications are based on the performance characteristics of the Rmer Span system by the Garland Company. Bidder will not be allowed to supply panels formed at the job-site on portable rollformers; metal panels must be pre-manufactured and engineered for this project. Bidder will not be allowed to change materials after the bid opening date. If the bidder wishes to propose an alternate manufacturer and/or material than that specified, the following manufacturer criteria must be submitted and approved in writing by the Architect and or Customer 10 days prior to bid due date. Failure to comply with this requirement is grounds for disqualification of Bid.
1. Submit certified test reports from a testing laboratory that bear the stamp of a registered California P.E. to show compliance with specified performance criteria. Test reports must meet the specified negative uplift pressures as listed per this specification for the gauge, panel width and clip spacing specified as confirmed by manufacturers ASTM-E-1592 test results.
 2. Tests shall have been made identical systems within the ranges of specified performance criteria.
 3. Empirical calculations for roof performance shall only be acceptable for positive loads.
 4. Indicate fastener types and spacings and provide fastener pullout values.
 5. Submit copy of manufacturer's Factory Mutual Certification for specified system.
 6. Submit copy of certification from manufacturer stating that specified system has been tested in accordance with ASTM-1592 requirements by an independent Engineering Firm. All test results must be submitted including Air (ASTM E 283) Infiltration and meet or exceed those listed in Section 1.8 (Design and Performance Criteria).
 7. A list of a minimum of five (5) jobs where the proposed alternate material was used under similar conditions. The reference list shall include date of project, size of project, address and contact telephone number.
 8. A financial statement demonstrating a current ratio of 2:1 (current assets to current liabilities).
 9. A written statement from the manufacturer stating that they will provide the building owner with a daily site inspection for a minimum of one (1) hour by an experienced, full time employee of the company.
 10. A written statement from a corporate officer of the manufacturing company stating that he or she has reviewed the specifications and confirms that the proposed system meets or exceeds all performance requirements listed as well as meets the panel size, gauge, weight, clip design, sealant design, uplift pressures and height of the vertical seam.
 11. A copy of manufacturer's 30 year NDL standing seam/modified built up warranty.
- B. The following samples must be submitted by alternate manufacturers:
1. Submit sample of panel section, at least 6" x 6" showing seam profile and also a sampler of color selected.
 2. Submit sample of panel clip.

1.05 DELIVERY, STORAGE, AND HANDLING:

- A. Manufacturer's responsibility:
 - 1. Protect components during fabrication and packing from mechanical abuse, stains, discoloration, and corrosion.
 - 2. Provide protective interleaving between contact areas of exposed surfaces to prevent abrasion during shipment, storage, and handling.
- B. Installer's responsibility:
 - 1. Store materials off ground providing for drainage; under cover providing for air circulation; and protected from wind movement, foreign material contamination, mechanical damage, cement, lime or other corrosive substances.
 - 2. Handle materials to prevent damage to surfaces, edges and ends of roofing sheets and sheet metal items. Damaged material shall be rejected and removed from the site.

1.06 JOB CONDITIONS:

- A. Determine that work of other trades will not hamper or conflict with necessary fabrication and storage requirements for preformed metal roofing system.
- B. Protection:
 - 1. Provide protection or avoid traffic on completed roof surfaces.
 - 2. Support no roof-mounted equipment directly on roofing system.
- C. Ascertain that work of other trades which penetrates the roof or is to be made watertight by the roof is in place and approved prior to installation of roofing.

1.07 QUALITY CRITERIA:

- A. Applicable standards:
 - 1. American Iron and Steel Institute (AISI):
 - S100-07 Specification for the Design of Cold-Formed Steel Structural Members.
 - 2. American Society for Testing and Materials (ASTM):
 - A792-03 Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
 - A653-04 Specification for Steel Sheet Zinc-coated (galvanized) or Zinc-Iron Alloy-coated (Galvannealed) by the Hot-Dip process.
 - E283-93 Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
 - E1592-01 Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference.
 - 3. Sheet Metal and Air Conditioning Contractors National Association (SMACNA):
Architectural Sheet Metal Manual, Latest Edition.
 - 4. Underwriters' Laboratories (UL):
 - Standard UL – 580 Tests for Wind-Uplift Resistance of Roof Assemblies.
 - Standard UL – 790 Class A Fire Rated Materials.
- B. Applicable erection tolerances: Maximum variation from true planes or lines: ¼" in 20'-0"; 3/8" in 40'-0" or more.

1.08 DESIGN AND PERFORMANCE CRITERIA:

- A. Thermal Movement:
1. Completed metal roofing and flashing system shall be capable of withstanding expansion and contraction of components caused by changes in temperature without buckling, producing excess stress on structure, anchors or fasteners, or reducing performance ability.
 2. Interface between panel and clip shall provide for **unlimited** thermal movement in each direction along the longitudinal direction.
- B. Uniform wind load capacity:
1. Capacity shall be determined using pleated airbag method in accordance with ASTM E 1592, testing of sheet metal roof panels as follows:
 - (7.1) Roof test specimens shall be either full length or representative of the main body of the roof, free from edge restraint or perimeter attachments, continuous over one or more supports, and containing at least five panel modules for standing seam roof.
 - (7.1.2) No attachments shall be permitted at sides or end perimeter other than those that occur uniformly throughout roof. Side and end seals shall be flexible and in no way restrain crosswise distortion of panels.
 - (7.2.1) Panels and accessories shall be production materials of same type and thickness proposed for use on project.
 2. Installed roof system shall carry positive uniform design loads with a maximum system deflection of L/180 as measured at the rib (web) of the panel.
- C. Underwriters' Laboratories, Inc., (UL) fire resistance P ratings for roof assemblies. Underwriters' Laboratories, Inc., (UL) Class A fire rated materials per UL 790.
- D. ASTM E283: **Static pressure air infiltration:**
- | <u>Pressure</u> | <u>Leakage Rate</u> |
|-----------------|---------------------|
| 1.57 PSF | 0.0007 cfm/sq.ft. |
| 6.24 PSF | 0.0002 cfm/sq.ft. |
| 20.0 PSF | 0.0036 cfm/sq.ft. |
- E. Water penetration (dynamic pressure): No water penetration, other than condensation, when exposed to dynamic rain and 70 mph wind velocities for not less than five minutes duration, when tested in accord with principles of ASMA 501.1.
- F. Capacities for gauge, span or loading other than those tested may be determined by interpolation of test results within the range of test data. Extrapolation for conditions outside test range are not acceptable.
- G. Cool Roof Features:
- Aged Solar Reflectance = 0.20 or higher
 - Thermal Emittance = 0.75 or higher
- Verify that colors selected meet this minimum criteria.

1.09 WARRANTIES:

- A. Owner shall receive ONE (1) WARRANTY from manufacturer of roof panels covering ALL of the following criteria. Multiple warranties are NOT acceptable:
 - 1. Manufacturer's 30 year NDL watertight warranty.
Manufacturer's warranty shall be a total systems warranty including all standing seam roofing, modified bitumen roofing, Elastomeric roof and wall coating and edge metal. The same company shall manufacture all roofing products for all new roof systems. This composite warranty shall provide the City with a single source of liability by guaranteeing all waterproofing systems against leaks for a period of 30 years.
 - 2. Installer shall provide manufacturer with 5 year warranty covering roofing system installation and watertightness.

1.10 PRE-INSTALLATION CONFERENCE:

- A. Conduct pre-installation meeting at project site before each construction activity that required coordination with installation of preformed metal roofing system.
- B. Other trades involved in or affected by installation of metal roof system shall attend.
- C. Advise Architect/Owner of scheduled meeting dates minimum of seven (7) days in advance.
- D. Review progress of other construction activities and preparations for particular activity under construction at each pre-installation conference.
- E. Record significant discussions and agreements/disagreements of each conference, along with approved schedule. Distribute record of meeting to everyone concerned, promptly, including Owner and Architect.
- F. Do not proceed if conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of work and reconvene conference at earliest feasible date.

PART 2 – PRODUCTS

2.01 MATERIALS:

- A. Metal Roofing System:
 - 1. Whenever a particular make of material, trade name and/or manufacturer's name is specified herein, it shall be regarded as being indicative of the minimum standard of quality required. A bidder who proposes to quote on the basis of an alternate material and/or system will only be considered if the proposed alternate is submitted on time and is documented as being equivalent or superior in quality to the specified system as described in these specifications. Additionally, all manufacturer and contractor/fabricator guidelines must be met as specified.
- B. Panel Material:
 - 1. Panel material: 24 ga., Galvalume steel, type AZ-55, grade 50 B, smooth as per ASTM A792-96.

2. Flashing, gutters, and flat stock material: Fabricate in profiles indicated on drawings of same material, thickness, and finish as roof system, unless indicated otherwise.
- C. Finish on surfaces:
1. Exposed surfaces on Galvalume: Metal roofing, gutters, ridge caps, drip stiffener, and flashing components shall receive factory applied Kynar 500 paint finish. Color shall be as selected by Architect from Manufacturer's standard or designer colors available.
 2. Coating system shall provide nominal 1.0 mil dry film thickness, consisting of primer and color coat.
 3. Color shall be as selected by Architect or Owner from manufacturer's stock colors available and shall match preformed metal roofing color Section 07430.
- D. Characteristics:
1. Configuration: Standing seams incorporating mechanically interlocked, concealed anchor clips allowing unlimited thermal movement, and of configuration which will prevent entrance or passage of water.
 - a. Panel/Cap configuration must have a total of four (4) layers of steel surrounding anchor clip for prevention of water infiltration and increased system strength designed to limit potential for panel blow-off.
 - b. Profile of panel shall have mesa's every 1/2" o.c. continuous throughout panel which are a minimum of 1.5" wide. These will absorb thermal stresses, reduce oil canning in panel and increase load carrying capacity.
 - c. Exposed fasteners, screws and/or roof mastic is unacceptable and will be rejected. System configuration only allows for exposed fasteners at panel overlap (if required) and trim details (as per manufacturer's guidelines).
 - d. Panels must be furnished in continuous lengths from ridge to eave with no overlaps unless approved by manufacturer to length of run.
 2. Seam must be 2-3/8" minimum height for added upward pressures and aesthetic appeal. Seam shall have continuous anchor reveals to allow anchor clips to resist positive and negative loading and allow unlimited expansion and contraction of panels due to thermal changes. Integral (not mechanically sealed) seams are not acceptable.
 3. Concealed Anchor Clips: Clips must be 16 gauge, 40,000 p.s.i. (G-90 galvanized steel) ONE (1) piece clip with projecting legs for additional panel alignment and provision for unlimited thermal movement in each direction along the longitudinal dimension.
 - a. Two-piece (2) clips are NOT acceptable.
 - b. Clip design must isolate sealant in panel cap from clip to insure that no sealant damage occurs from the clip during expansion and contraction.
 - c. Clip must maintain a clearance of a minimum of 3/8" between panel and substrate for proper ventilation to help prevent condensation on underside of panel and eliminate the contact of panel fastener head to panel.
 4. Seam cap: Snap-on cap shall be a minimum of 1" wide "T" shaped of continuous length up to 45 feet accordingly to job condition and field seamed by means of manufacturer's standard seaming machine.
 - a. Cap shall be designed to receive continuous double bead of hot applied, foamed in place gasketing sealant which will not come in contact with the

- anchor clip to allow unlimited thermal movement of panel without damage to cap sealant.
 - b. Sealant shall be non-fatigue, nitrogen injected water barrier.
 - 5. Standing Seam Panel Width: 18"
 - 6. Replaceability: Panels shall be of a symmetrical design with snap on cap configuration such that individual panels may be removable for replacement without removing adjacent panels.
 - 7. Panel ends shall be panned at ridge, headwall, and hip conditions where applicable.
- E. Accessories:
 - 1. Gable anchor clips: Standing Seam styles galvanized minimum thickness 16 gauge.
 - 2. Fasteners:
 - a. Concealed fasteners: Corrosion resistant steel screws designed to meet structural loading requirements. The normal minimum screw size shall be #12.
 - 3. Closures: Factory pre-cut closed cell foam meeting ASTM D3575-93 a cross-linked closed cell polyolefin foam, enclosed in metal channel matching panels when used at hip and ridge.
 - 4. Panel joint (endlap) sealant: Non-curing modified isobutylene tri-polymer tape of thickness to fully adhere to both surfaces being joined with indicated service life of 30 years.

2.02 ACCESSORY PRODUCTS:

- A. Sealant:
 - 1. Acceptable product:
 - a. Concealed Application: PT1-707 or Bostik Chem-Calk butyl sealant.
 - b. Exposed Application: The Garland Company, Tuff Stuff or Equal
- B. Underlayment:
 - A. The Garland Company, Rmer Seal or Equal

2.03 FABRICATION:

- A. Shop fabricate metal roofing, gutter, and flashing components to the maximum extent possible, forming metal work with clear, sharp, straight, and uniform bends and rises. Hem exposed edges of flashings.
- B. Form flashing components and gutters from full single width sheet in minimum 10'-0" sections. Provide mitered corners, joined using closed end pop rivets and joint sealant.
- C. Fabricate roofing and related sheet metal work in accord with approved shop drawings and applicable standards.

PART 3 – EXECUTION

3.01 PREPARATION:

- A. Inspection: Examine the alignment and placement of the building structure and substrate. Correct any objectionable warp, waves or buckles in the substrate before proceeding with

installation of the preformed metal roofing. The installed roof panels will follow the contour of the structure and may appear irregular if not corrected.

- B. Establish straight side and crosswise benchmarks.
- C. Use proper size and length fastener for strength requirements. Approximately 5/16" is allowable for maximum fastener head size beneath the panel.
- D. Pre-roofing conference: Prior to beginning metal roofing work, a pre-roofing conference shall be held to review work to be accomplished.
 - 1. Contractor, metal roofing subcontractor, metal roofing system manufacturer's representative and all other subcontractors who have equipment penetrating roof or whose work involves access to roof shall be present.

3.02 ROOFING AND FLASHING INSTALLATION:

- A. All details will be shown on manufacturer's shop drawings to successful bidder; install roofing and flashings in accordance with approved shop drawings and manufacturer's product data, within specified erection tolerances.
- B. Install a high temperature peel and stick underlayment over the entire wood deck surface.
- C. Install 3" x 5" (16 gauge) pre-punched bearing plates with the 16 gauge one piece panel clips as necessary to provide even panel seam height. Bearing plates shall possess two pre-slotted holes and be fastened into the deck. Clip spacing is at end of section.
- D. Installation of Roof Panels: Roof panels can be installed by starting from either end and working towards the opposite end. Due to the symmetrical design of the specified panel system, it is also acceptable to start from the middle of the roof and work toward each end.
 - 1. A stainless steel pop rivet shall be secured through the anchor reveal of the panel leg and extend into the arms of the panel clip located at the ridge of the system. This is done at each arm of the clip along the ridge. The panel is then anchored at both sides of the clip.
 - a. Be sure to capture all drilling debris during this operation with a rag or cloth placed on the panels at the drilling operation.
 - 2. The seam caps are shipped with two rolls of factory applied hot melt sealant located inside the caps. To install the caps, hook one side of the cap over the panel edge and rotate over the opposite panel leg. For ease of installation, start at one end of the panel and work toward the opposite end.
 - 3. A hand crimping tool is used to crimp the cap around the top of two adjacent panels.
 - 4. Caps shall then be permanently seamed with manufacturers mechanical seamer.
- E. Isolate dissimilar metals and masonry or concrete from metals with bituminous coating. Use gasketed fasteners where required to prevent corrosive action between fastener, substrate, and panels.
- F. Limit exposed fasteners to extent indicated on shop drawings.

- G. Anchorage shall allow for temperature expansion/contraction movement without stress or elongation of panels, clips, or anchors. Attach clips to structural substrate using fasteners of size and spacing as determined by manufacturer's design analysis to resist specified uplift and thermal movement forces.
- H. Seal laps and joints in accordance with roofing system manufacturer's product data.
- I. Coordinate flashing and sheet metal work to provide weathertight conditions at roof terminations. Fabricate and install in accordance with standards of SMACNA Manual.
- J. Provide temperature expansion/contraction movement of panels at roof penetrations and roof mounted equipment in accordance with system manufacturer's product data and design calculations.
- K. Installed system shall be true to line and plane and free of dents, and physical defects with a minimum of oil canning.
- L. Form joints in linear sheet metal to allow for ¼" minimum expansion at 20'-0" o.c. maximum and 8'-0" from corners.
- M. At joints in linear sheet metal items, set sheet metal items in two ¼" beads of butyl sealant. Extend sealant over all metal surfaces. Mate components for positive seal. Allow no sealant to migrate onto exposed surfaces.
- N. Remove damaged work and replace with new, undamaged components.
- O. Touch up exposed fasteners using paint furnished by roofing panel manufacturer and matching exposed panel surface finish.
- P. Install expansion joints on all gutters exceeding 50'-0" long or a minimum of 1 per 12 units. SMACNA Figure 1-7- Butt Type gutter expansion joint.

3.03 CLEANING:

- A. Clean exposed surfaces of work promptly after completion of installation. To prevent rust staining on finished surfaces, immediately remove filings produced by drilling or cutting.
- C. Clean roofs in accordance with manufacturer's recommendations.
- D. Clean exposed surfaces of roofing and accessories after completion of installation. Leave in clean condition at Date of Substantial Completion for Project. Touch up minor abrasions and scratches in finish.
- E. Touch up exposed fasteners using paint furnished by roofing panel manufacturer and matching exposed panel surface finish.
- F. Remove all scrap and construction debris from the site.

3.04 FINAL INSPECTION:

- A. Final inspection will be performed by a firm appointed and paid for by the owner in accordance with general requirements.

3.05 OWNER SUPPLIED MATERIALS

- A. Contractor must include in their base bid any additional materials to complete the roofing project. Contractor must provide all labor to install owner supplied materials as part of their bid. All materials not specifically including in the owner supplied materials section will be the responsibility of the contractor to provide and install in compliance with section 07 41 13. Freight charges of Owner supplied materials will be the responsibility of the Owner. Contractor must take delivery of materials, properly cover and store at jobsite or their shop. Contractor must be able to provide certification in writing from roof system manufacturer that the contractor is approved to install the specified roof system and provide all warranty requirements of section 07 41 13. The owner will supply the following materials and quantities.

Base Bid:

R-Mer Span, 18", 24g panels: 3,700 square feet
Flat Stock-24g-Standard Color-24 Sheets
Rmer Seal-2sq Roll-20 Rolls

END OF SECTION