

12. Hydrostatic Resistance ASTM D-751: 400 psi
13. Ozone Resistance ASTM D-1149: PASS – No cracks after 168 hours exposure at 100 degrees F.

2.03 Related Materials

- A. Flashings
 1. Tremco TPA Membrane Flashing: TPA membrane.
 2. TPA Coated Metal: .020@ thick membrane laminated to 24 gauge G-90 galvanized steel with acrylic backwash coating.
 3. Tremco TPA Prefabricated Flashing: pipe boots, inside corners, outside corners.
- B. Flashing Adhesive: Tremco White Sheeting Bond
- C. Sealants: Tremco Polyurethane Sealants
- D. Seaming Procedure: Hot air welding, contact Tremco for acceptable equipment and methods.
- E. Mechanical Termination: Approved plates and screws.
- F. Recover Board:
 1. Dens-Deck – ¼" thickness
- G. Recover Board Fasteners:
 1. Tremco recommended fasteners.
 2. Length: Sufficient to penetrate deck a minimum of ¾".
- H. Membrane Fasteners:
 1. Tremco recommended fasteners.
 2. Length: Sufficient to penetrate deck a minimum of ¾".
- I. Insulation Plates: Tremco 3" diameter, galvanized metal plates.
- J. Wood Nailers:
 1. Minimum #2 lumber, wolmanized or pressure treated for rot resistance with a salt-based preservative. No creosote or asphaltic type preservations shall be allowed.
 2. Blocking under conduits to be 4"x4".
- K. Roof Traffic Pads: Tremco TPA Walkway Roll.
- L. Primer: Tremprime WB.

2.04 Copings

- A. Sheet metal:
 - 1. Re-use existing copings.
- B. Waterproofing:
 - 1. Ice & Water Shield by Grace.

2.05 Gutters

- A. TPA clad metal. Broken to match existing exterior profile and historical requirements.
 - 1. Paint to match existing.
- B. Gutter underlayment:
 - 1. TPA membrane by Tremco.

2.06 Gutter Guards

- A. Rigid, hinged, steel framing system that supports a maximum ¼" sieve screening for keeping leaves and debris from the gutter systems.
 - 1. Galvanized hardware cloth to match existing.
 - 2. Steel framing system to match existing. Hinges and screen placement to match attached drawing.
 - 3. Paint entire assembly to match the gutter color.

2.07 Edge Metal

- A. TPA clad metal. Broken to match attached detail.
 - 1. Paint to match existing.

PART III - EXECUTION

3.01 Pre-Job

- A. The Primary contractor, the manufacturer and Owner's representative shall conduct a pre-roofing conference before any work begins, so all parties involved in the installation of the roofing system construction, or who may work on or through the roofing system, understand their obligations with respect to the roofing membrane.

3.02 Substrate Inspection

- A. A proper substrate shall be provided to receive the TPA roofing system. The roofing contractor shall notify the Owner and Tremco of any defects in the substrate. Work shall not proceed until the substrate has been repaired or replaced.
- B. Remove all loose debris from the surface.
- C. The roof surface shall be free of standing water.

3.03 Substrate Preparation

- A. Remove roof membrane base flashings down to substrate, pitch pans, lead jacks and other flashings. Dispose of debris.
- B. Remove existing gutter guards and gutters. Dispose of debris.
- C. Remove BUR and edge metal from the top of parapet walls. Dispose of debris.
- D. Remove abandoned vents and curbs down to substrate. Dispose of debris.

3.04 Deck Replacement

- A. Span small voids left in deck from penetration flashing removal, with $\frac{3}{4}$ " plywood. Mechanically attach to the surrounding deck.

3.05 Insulation

- A. Mechanically attach 1.5" polyisocyanurate insulation through the existing built-up roofing, into the wood deck substrate with fasteners.
 - 1. Minimum two fasteners per 4' x 8' board.
 - 2. Insulation joints to have maximum $\frac{1}{4}$ " spacing.

3.06 Recover Board

- A. Mechanically attach Dens-Deck through polyisocyanurate, existing built-up roof system and into the wood substrate with fasteners.
 - 1. Install 8 fasteners per board.
- B. Attach to non-coping parapet wall, without polyisocyanurate insulation.

3.07 Membrane Installation

A. Placement:

1. The Tremco TPA membrane shall be mechanically fastened to the structural deck. Contact Tremco for fastening requirements into different deck types.
2. The perimeters and corners may require additional design consideration to develop the necessary resistance for wind conditions. Contact Tremco for additional information if the building is located where winds may exceed standard warranty conditions or special code provisions are required.
3. The membrane shall be cut to fit neatly around all penetrations and roof projections.
4. The roofing membrane shall be unrolled and positioned with a minimum 4 ½" overlap. Laps shall be shingled with, or run parallel to, the slope of the roof.

B. Attachment:

1. The TPA membrane is secured using Tremco plates and #14 fasteners.
2. The spacing of the fasteners used to secure the TPA membrane sheets, prior to welding the seams, is 12" in the field and 6" at the perimeter.
3. Secure the membrane with fasteners and plates around curbs and other penetrations with the same fastener spacing used to secure the perimeter sheets.
4. Position and secure the edge of each field sheet prior to welding the adjacent sheet to it.
5. Secure the membrane at all angle changes in the substrate using the same spacing used for the perimeter sheets. This procedure is required regardless of the cause of the angle change.

C. Seaming:

1. The overlapping sheets shall be welded using hot air welding equipment. The areas must be dry and must be clean. The contractor must ensure that dirt or debris does not interfere with the seaming process.
2. The equipment settings and alignment adjustments must be checked continuously during each day to ensure complete fusion within the welded area and a smooth, wrinkle-free seam.
3. Welds using the automatic welder shall be a minimum of 1 1/2" wide.
4. All hand welds shall be a minimum of 2" wide.
5. Membrane to TPA metal seams can be welded using an automatic welder or hand held equipment. Minimum seam widths as outlined above must be followed. Fasteners that secure the coated metal flashing shall not be located within the seam. Provide sufficient flange width (min. 5.0") on all flashings to allow for this requirement. Automatic welder settings will differ from membrane to membrane settings when welding membrane to coated metal.
6. The seams shall be checked for continuity and integrity. All imperfections must be corrected.

D. Membrane Termination and Securement

1. The TPA membrane shall be secured at all terminations at the perimeter of each roof level, roof section, curb flashing, skylight, expansion joint, rising wall,

penthouse.

2. Securement shall be provided at all angle changes in the deck (changes in roof plane) or insulation taper: inside angles more than 1" per foot from the plane of the roof, ridge angles that exceed 1" per foot total angle change.
3. Securement shall be achieved using TPA coated metal flashing, adequately fastened to treated wood nailers, or Tremco fasteners (and plates) spaced according to deck type.
4. All terminations and fasteners shall be sealed within a lap or covered with a strip of TPA membrane, its perimeter continuously welded to the field sheet.

3.08 Membrane Flashing

- A. All flashings shall be installed as shown on the detail drawings or the manufacturer's standard details. All TPA membrane shall be installed concurrently with the roof membrane as the project progresses. No temporary flashings shall be allowed without prior written approval of the authorized Tremco agent. If any water is allowed to enter under the new roofing due to incomplete flashings, the affected area shall be removed and replaced at contractor's expense.
- B. Flashings shall not be applied over existing thru-wall flashings or weep holes. All flashings shall extend a minimum of 8-inches above roof level unless previously accepted by Owner representative and an authorized Tremco agent.
- C. All TPA membrane base flashings shall be fully-adhered to a dry, smooth solvent-resistant and compatible substrate using Tremco White Sheeting Bond.
 1. When the surface is dry, TPA membrane flashings shall be cut to proper width and length, wall shall be coated evenly with Tremco White Sheeting Bond at a rate of approximately 1 gal/20sq.ft. using an 1/8" notched trowel, rates will vary depending on ambient temperature and surface condition. Allow Sheeting Bond to flash off 15 minutes minimum before covering with membrane. Adjust time for ambient conditions. Flashing membrane shall be rolled carefully onto the previously prepared substrate taking care to avoid wrinkles.
 2. No Sheeting Bond shall be applied to lap (seam) areas that are to be welded to flashings or adjacent membrane sheets by means of hot-air welding procedures.
 3. Care should be taken to ensure that the flashing does not bridge where there is a change of direction.
- D. The top of the installed flashing shall be fastened under metal counterflashing, coping cap, or through metal reglet. The maximum distance between fasteners for TPA flashings shall be 8" through flat bar or through metal reglet.
- E. The metal reglet shall be caulked with polyurethane sealant. The sealant which is applied to the top of the metal reglet, will require periodic maintenance to check and renew the seal.

3.09 Roof Penetrations

- A. All penetrations (pipes, supports, soil stacks, curbs, etc.) Passing through the roofing membrane shall be flashed in accordance with Tremco details.
- B. The flashing seal shall be made directly to the penetration passing through the roof system unless the surface temperature of the penetration exceeds 140 F; surfaces with temperatures that exceed 140 F must have the flashing insulated from the heat source. Contact Tremco for assistance.
- C. Existing flashing, including pitch pans, shall be removed before new flashings are installed during retrofit projects.
- D. Use premolded corners to complete flashings of curbs, parapets, pitch pockets and other vertical surfaces.
- E. Use Tremco premolded boots to flash circular penetrations 1" to 8" diameter; boots must be pulled over the top of the penetration, do not split the boot.
- F. All others shall be field fabricated using TPA membrane or TPA coated metal.

3.10 Copings

- A. Remove existing copings and set aside.
- B. Install new base flashings per 3.06. Extend base flashings over the wall and attach to the outside edge.
- C. Reinstall existing copings, cleating the outside edge and mechanically attaching the interior fascia.

3.11 Gutters

- A. Fabricate new gutters from TPA clad metal. Exterior profile to match existing. Include six new overflow scuppers per gutter run. Match existing scupper detail. **Verify with Owner prior to fabrication.**
- B. Remove existing gutters and dispose.
- C. Install TPA membrane under gutter as detailed. Install counterflashing as detailed.
- D. Install new gutter as detailed. Apply a heavy bead of urethane caulk on bottom side of gutter, completely surrounding the drain line leader.

- E. Install the gutter guards as detailed.
- F. Paint gutter and gutter guards to match existing.

3.12 Walkways

- A. Install walkways as directed by Owner Representative per Tremco details.
- B. Contractor to include 1,700 linear feet of walk pad installation.

3.13 Diverters

- A. Install four (4) diverters on top of TPA roofed parapet wall.
 - 1. Tremco and Owner to provide location of diverter placement.
 - 2. Diverters to be made from welded TPA membrane.

3.14 Membrane Repair

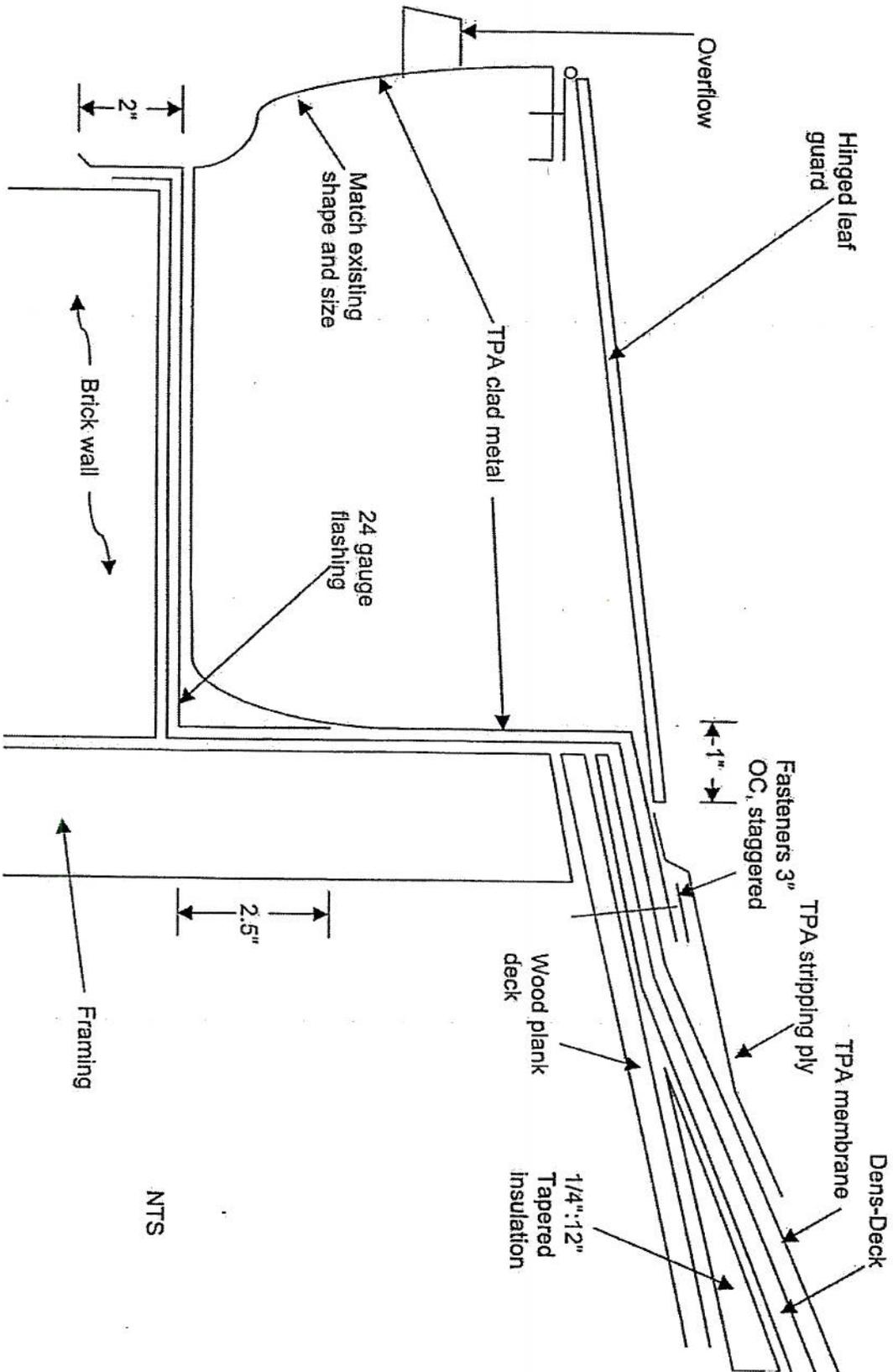
- A. Correction of damage to the membrane may be accomplished by hot-air welding a membrane section over the affected area.
- B. If the defect is not smooth, cut out and remove enough material to provide an even surface. If any mechanical fasteners are encountered, the repair should include provisions to fasten the repair materials.
- C. Repair materials shall overlap the field sheet a minimum of 3" to provide adequate room for a proper weld. Hand welds shall be a minimum of 2"; machine welds shall be a minimum of 1 ½".
- D. Cut all corners of repair materials round.

3.15 Cleaning

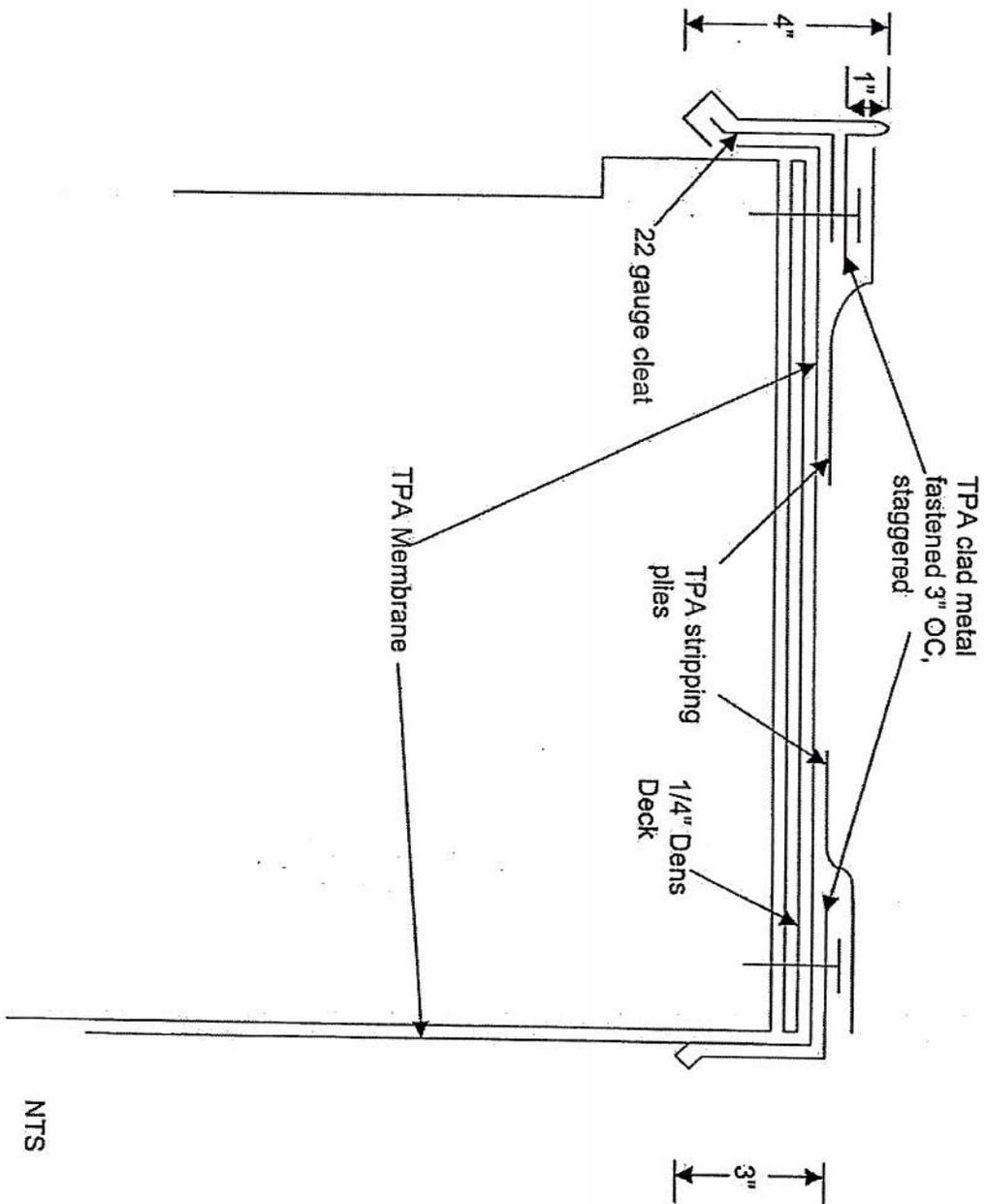
- A. Keep premises free from accumulation of waste and debris. At the completion of the work and as necessary during the progress of the work, remove from the premises surplus materials, waste, and debris.
- B. Upon completion, thoroughly clean surfaces in a manner that will not affect the finish appearance or weather tightness.
 - 1. Pressure washing or washing and brooming dirt and debris is acceptable.

END OF SECTION

Section B Gutter Detail



Section B Parapet Wall Detail



NTS

Memorial Auditorium Roof Repairs SECTION C

PART I - GENERAL

1.01 RELATED DOCUMENTS

- A. The attached are components of this section:
 - 1. General Conditions.

1.02 SCOPE OF WORK

- A. Furnish and install specified coating and related components to restore the existing roof on Section C at Memorial Auditorium.
- B. Work includes:
 - 1. Power washing roof surface.
 - 2. Installation of the following:
 - a. Application of Energy Star rated high build, nano-technology, acrylic polymer coating system.
 - 1) High Build-Nano Reflective Coating

1.03 QUALITY CONTROL

- A. Contractor shall:
 - 1. Be experienced in built up and reflective coating installation.
 - 2. Be acceptable by Owner.
 - 3. Be approved in writing by the roofing material manufacturer to install manufacturer's products and systems in accordance with the manufacturer's warranty requirements.
- B. Roofing material manufacturer shall:
 - 1. Be Associate Member in good standing with National Roofing Contractors' Association (NRCA) for at least five (5) years.
 - 2. Be nationally recognized in roofing, waterproofing, and moisture survey industry for at least ten (10) years.
 - 3. Provide a coating that meets or exceeds the California Energy Commission's Title 24 requirements for reflectance and emissivity adopted for 2005. Be approved by Owner.
 - 4. Provide Owner with the names of at least 3 qualified applicators.
 - 5. Provide local Field Representative to make periodic site visits, report work quality, and job progress.
 - 6. Provide Warranty / Technical inspector employed by the manufacturer to provide full or part time inspection as required

- by Owner.
7. The presence and activity of the manufacturer's / specifier's representative and/or Owner representative shall in no way relieve the contractor of contract responsibilities or duties.
- C. Plans and specifications:
1. Contractor must notify Owner and the specifier of any omissions, contradictions or conflicts seven (7) days before bid date. Owner and the specifier will provide necessary corrections or additions to plans and specifications by addendum. If Contractor does not so notify the Owner and specifier of any such condition, it will be assumed that the Contractor has included the necessary items in the bid to complete this specification.
 2. It is the intent that this be a completed project as far as the contract documents set forth. It is not the intent that different phases of work on this project be delegated to various trades and subcontractors by the contract documents. Contractor must make own contracts with various subcontractors, setting forth the work these subcontractors will be held responsible for. Contractor alone will be held responsible by the owner for the completed project.
 3. If the Contractor feels a conflict exists between what is considered good roofing practice and these specifications contractor shall state in writing all objections prior to submitting quotations.
 4. It is the Contractor's responsibility during the course of the work, to bring to the attention of and notify the Owner representative first verbally, then in writing, of any defective membrane, insulation or deck discovered where not previously identified.
- D. Source Limitations: Obtain components for roofing system from or approved by roof system manufacturer.

1.04 SUBMITTALS

- A. PRODUCT DATA: Submit for all products.
- B. MSDS: Submit for all products.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Delivery of materials:
 1. Deliver materials to job-site in new, dry, unopened, and well-marked containers showing product and manufacturer's

- name.
 2. Deliver materials in sufficient quantity to allow continuity of work.
 3. Coordinate delivery with the Owner.
- B. Do not order project materials or start work before receiving Owner's written approval.
- C. Storage of materials:
1. Store materials marked "KEEP FROM FREEZING" in areas where temperatures will remain above 40F.
 2. For insulation, remove plastic packaging shrouds. For felt rolls, slit the top of the plastic shrink wrap only. Cover top and sides of all stored materials with tarpaulin (not polyethylene). Secure tarpaulin.
 3. Do not store materials in open or in contact with ground or roof surface.
 4. Store all materials on a raised platform covered with secured canvas tarpaulin (not polyethylene), top to bottom. Cover all materials when project is not in progress and maintain the ability at all times to cover the materials when required, such as during an unanticipated rain shower.
 5. Contractor shall assume full responsibility for the protection and safekeeping of products stored on premises.
 6. **Storage of materials to be coordinated with Owner. Any materials stored on roof will be secured at all times.**
- D. Material handling:
1. Handle materials to avoid bending, tearing, or other damage during transportation and installation.
 2. Material handling equipment shall be selected and operated so as not to damage existing construction or applied roofing. Do not operate or situate material handling equipment in locations that will hinder smooth flow of vehicular or pedestrian traffic.

1.06 SITE CONDITIONS

- A. Field measurements and material quantities:
1. Contractor shall have SOLE responsibility for accuracy of all measurements, estimates of material quantities and sizes, and site conditions that will affect work.
- B. Existing conditions:
1. Building space directly under roof area covered by this specification will be utilized by on-going operations. Do not interrupt building operations unless prior written approval is received from authorized personnel.

2. **Take appropriate measures to prevent dust, vapors, gases or odors from entering the building during roof repair or application of primer or coating.**
- C. Waste Disposal:
1. Do not re-use, re-cycle or dispose of material manufacturers product containers except in accordance with all applicable regulations. The user of manufactured products is responsible for proper use and disposal of product containers.
- D. Safety requirements:
1. All application, material handling, and associated equipment shall conform to and be operated in conformance with OSHA safety requirements.
 2. Comply with federal, state, local and Owner fire and safety requirements.
 3. Advise Owner representative whenever work is expected to be hazardous to building occupants, employees, and/or operators.
 4. Maintain fire extinguisher within easy access whenever power tools, roofing kettles, fuels, solvents, torches, and open flames are being used.
- E. Environmental requirements:
1. Do not work in rain, snow, or in presence of water.
 2. Do not install materials marked "KEEP FROM FREEZING" when daily temperatures are scheduled to fall below 40F.
 3. Do not perform masonry work below 40F.
 4. Remove any work exposed to freezing.
 5. Advise Owner when volatile materials are to be used near air ventilation intakes so the Owner can use some or all of the following methods to minimize disruptions to building occupants and operations:
 - a. Divert air intake from work area by attaching scoops or temporary duct work.
 - b. Temporarily shut down or block air intakes.
 - c. Provide make-up air or intake air from sources away from work area.
- F. Security requirements:
1. Comply with Owner security requirements.
- G. Provide temporary sanitary facilities.

1.07 WARRANTY/GUARANTEE

- A. Guarantee:
 - 1. Upon project completion and Owner Representative acceptance, effective upon complete payment, Contractor shall issue Owner a guarantee against defective workmanship and materials for a period of two (2) years.

- B. Warranty:
 - 1. Upon project completion, Manufacturer acceptance, and once complete payment has been received by both Contractor and Manufacturer, Manufacturer shall deliver to Owner a ten (10) year QA+ Warranty. This warranty will cover leaks during the warranty period, and will provide preventative maintenance and housekeeping visits during years 2 and 5 of the performance period.

PART II - PRODUCTS

2.01 GENERAL

- A. Comply with quality control, references, specifications, and manufacturer's data. Products containing asbestos are prohibited on this project. Use only asbestos-free products.

- B. Use products with personal protection. User must read container label and material safety data sheets prior to use.

2.02 ACCEPTABLE MANUFACTURER

- A. Tremco Inc., Cleveland, OH 216/292-5000.
 - 1. Bill Burke – Local Field Representative: (916) 990-5859.

- B. Or equal as determined by the Owner.

2.03 ROOFING MATERIALS

- A. Surface coating:
 - 1. High Build-Nano Reflective Roof Coating by Tremco. The Nano Technology is utilized to add strength to the coating so it performs under ponding water conditions.

- B. Flashing coating:
 - 1. High Build-Nano Reflective Roof Coating by Tremco.

- C. Related materials:
 - 1. Mastic:
 - a. ELS.
 - 2. Reinforcing Membrane:
 - a. Burmesh.
 - 3. Membrane primer:
 - a. SP Primer.
 - 4. Polyurethane Sealant:
 - a. Tremseal D.

PART III – EXECUTION

3.01 EXAMINATION

- A. Verify conditions as satisfactory to receive work.
- B. Do not begin roofing until all unsatisfactory conditions are corrected. Beginning work constitutes acceptance of conditions.
- C. Check projections, curbs, and deck for inadequate anchorage, foreign material, moisture, or unevenness that would prevent quality and execution of new coating system.

3.02 GENERAL WORKMANSHIP

- A. All work performed by Contractor shall conform to this specification.
- B. The presence and activity of the manufacturer's representative, and/or Owner representative shall in no way relieve Contractor of contract responsibilities or duties.

3.03 PREPARATION

- A. Protection:
 - 1. Contractor shall be responsible for protection of property during course of work. Lawns, shrubbery, paved areas, and building shall be protected from damage. Repair damage at no extra cost to the Owner.
 - 2. Roofing, flashings, membrane repairs, and insulation shall be installed and sealed in a watertight manner on same day of installation or before arrival of inclement weather.

3. Preparation work shall be limited to those areas that can be covered with installed roofing material on same day and before arrival of inclement weather.

B. Surface preparation:

1. Power wash roof in preparation of new coatings.

3.04 REPAIRS PRIOR TO COATING APPLICATION

A. Blisters:

1. Slice blister to relieve pressure.
2. Clean and prime area around blister repair.
3. Pull back existing roof membrane and trowel-apply mastic under the plies prior to putting roof back into place.
4. Apply 5-course repair with mastic and polyester over relief cut in the roof.

B. Membrane splits:

1. Clean and prime around the area to be repaired and install 5-course repair with mastic and polyester membrane.

C. Loose or open laps in field ply sheets:

1. Apply 3-course repair with mastic and polyester.

D. Lead Flashings:

1. Check for splits and replace as needed. Trowel a beveled bead of ELS around the penetration.

3.05 BASE FLASHINGS

- A. Inspect base flashing membrane and repair in accordance with Membrane Repair instructions as necessary.

3.06 SURFACING TREATMENT ON FLASHINGS

- A. Coat base flashings per instructions listed in 3.07 Surfacing Application.

- B. Coat out all metal penetrations and vent caps.

3.07 SURFACING APPLICATION

A. Roof surfacing:

1. Over entire roof surface apply one coat of SP Primer at a rate of 300 sf per gallon.
2. Over entire roof surface apply the surface coating of High Build acrylic polymer roof coating in a uniform and continuous

manner according to manufacturer's recommendations.

- a. Total coverage rate: 3 gallons per 100 square feet.
- b. Apply in a two-coat process at 1.5 gallons per 100 square feet per coat.

3.08 ADJUSTING AND CLEANING

- A. Repair of deficiencies:
 1. Installations of details noted as deficient during final inspection must be repaired and corrected by applicator, and made ready for re-inspection, within five (5) working days.
- B. Clean-up:
 1. Immediately upon job completion, roof membrane and flashing surfaces shall be cleaned of debris.

3.09 PROJECT COMPLETION

- A. Manufacturer punch-list:
 1. Manufacturer will provide a punch-list at the close of the project. This punch-list must be completed by the contractor, prior to the project being warranted by the manufacturer, and final payment being made.

END OF SECTION

Memorial Auditorium Roof Repairs SECTION D

Tile Replacement:

1. Remove tile and under-layment on ten (10) designated, lower eyebrow roofs on east and west sides of building (5 on each side). Put unbroken tile aside and store per Owner's direction. Dispose of broken tile.
2. Inspect the deck for damage with Tremco and the Owner.
3. Install new underlayment, shingle style, over decks.
 - a. Install Burmastic Modified Premium Composite Ply by Tremco.
4. Install new battens to match existing dimensions.
5. Install new valley flashings per attached detail. Extend 2" past the outside edge of the wall. Set outside edge of flashing (horizontal and vertical face) in a bed of Polyroof SF. Attach to substrate per attached detail. Paint both sides to match existing.
6. Install previously removed tiles and supplement with new tile to match upper eyebrow roofs (contractor to figure 100% new tile and rebate back to Owner what is not utilized. Submit tile sample for acceptance prior to proceeding). End tiles to be installed shall match upper eyebrow roofs and attached detail. Reuse existing step and reglet mounted flashings. Paint existing flashings to match existing color.
7. Mortar tiles into place to match existing. Mortar to be polymer modified and tinted red to match existing. Submit mortar sample to Owner for approval.

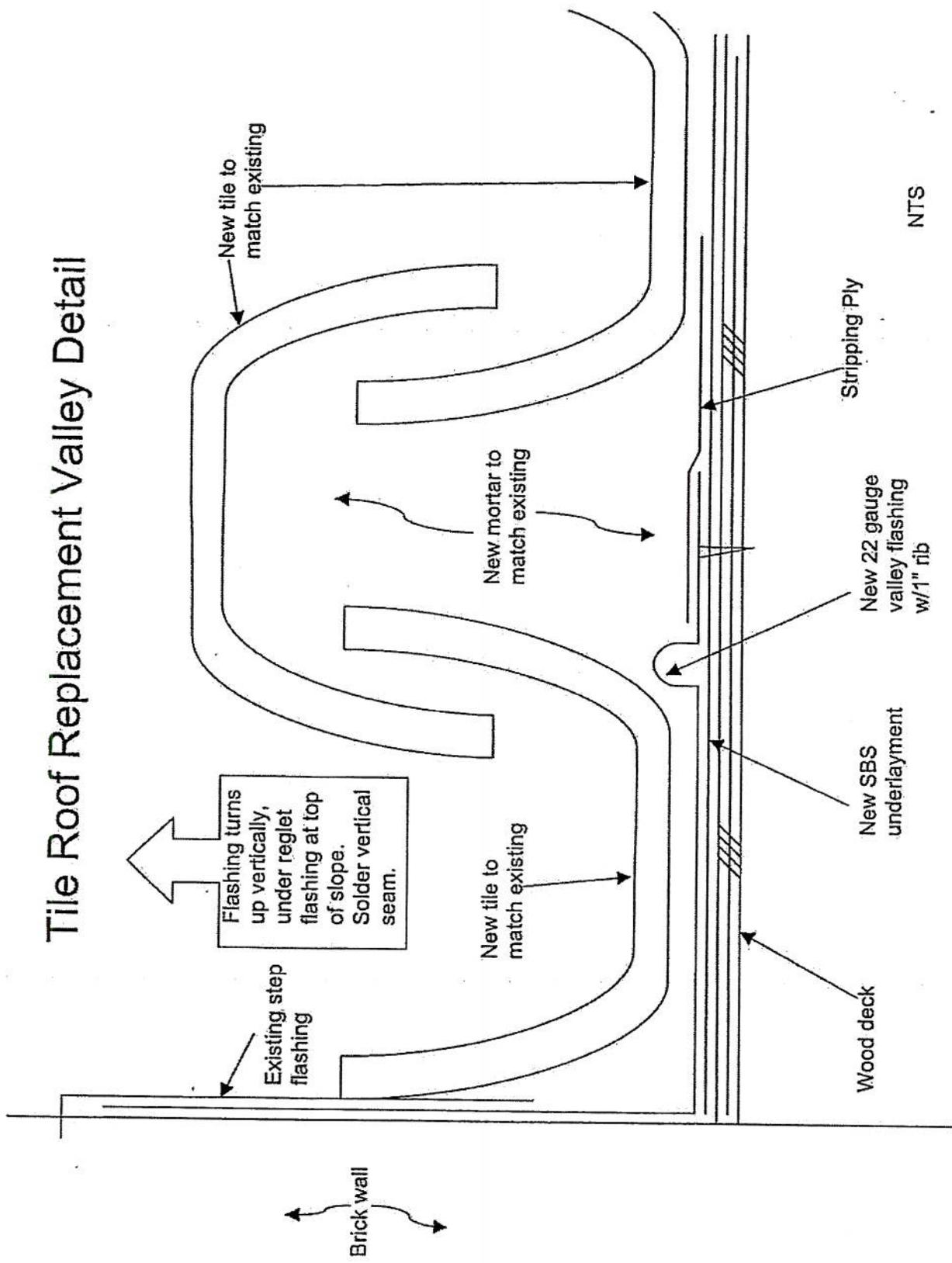
Tile/Gutter Repairs:

1. At North side of building, mortar rake tiles to the fascia boards. Mortar to be polymer modified and tinted red to match tile. Install new mortar so not to allow bees/bats/insects to access underside of the tile roof via the rake tile.
2. Extend valley metal flashing 2" past the wall edge at the 8 lowest locations at the North side tile roofs. Extend this flashing 4" under the existing flashing and rivet in place. Paint the new flashing (both sides) to match existing.

3. Install new gutter guards at all tile roof gutters. Materials, form and function to match gutter guards from roof Section B. **Contractor to notify Owner of gutter defects found during gutter guard installation.**
4. At North side of SE and SW tile roofs, add vertical gutter extensions at wall to gutter transitions. Extension to be 4" above top edge of existing gutter, extended 2' out from wall and slid behind step flashing.

END OF SECTION

Tile Roof Replacement Valley Detail





DEPARTMENT OF
CONVENTION, CULTURE
AND LEISURE

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**SACRAMENTO MEMORIAL AUDITORIUM ROOF REPAIR (B091700111001)
(Addendum #1)**

October 23, 2008

To all Potential Bidders:

Attached hereto are addenda items, which shall be incorporated into the request for proposal for above noted project. These changes shall be considered as part of the original documents, as if they were originally provided therein, and as such shall be used as contractual documents. All other terms, conditions, and specifications of the bid remain unchanged. Bidders must acknowledge receipt of this addendum prior to the hour and date specified in the bid request, or as amended, by one of the following methods:

- (a) By acknowledging receipt, on the proposal form submitted; or
- (b) By separate letter or telegram which includes a reference to the bid request and addendum number.

Failure to acknowledge receipt of this addendum in one of the above methods and cause acknowledgment to be received at the Clerk's Office, 915 I Street, 1st Floor, Sacramento, CA 95814-2671, prior to the hour and date specified for receipt of bids, may result in rejection of your offer. If by virtue of this addendum you decide to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the bid request number and this addendum, and is received prior to the opening hour and date specified.

For any questions related to this Addendum, contact Melanie Medina, Staff Aide, at (916) 808-7048.

Enclosure

ADDENDUM #1

General Information:

1. A second non-mandatory pre-bid meeting will be held at 9:00 am, Monday, October 27, for additional information and/or field verification.
2. Rain and high wind days will be an exception to the 60 day performance period. However, the project must be complete by May 1, 2009.
3. Liquidated Damages will be \$400 per day.

Sacramento Memorial Auditorium Roof Repair
Project/Contract Number: B09-1700111-001
Addendum #1

1. All sheet metal fabrication and installation to be completed by a California State License Board, C-43 licensed Sheet Metal Contractor.
2. All work except for wall and roof coating installation to be completed within the specified performance period. All coating work to be completed prior to May 15, 2009.
3. All new metal to be painted to match existing metal flashing systems.
4. At the south side of the NE tile roof gutter, install sheet metal gutter extension to match instructions in Section D, Tile/Gutter Repairs, 4.
5. Contractor to include up to 50 tiles for replacement of existing broken tiles, throughout all tile roofs.
6. Mortar eaves and ridges on all three, north side roofs per Section D, Tile/Gutter Repairs, 1.
7. Paint galvanized coping on Section C to match other existing copings.
8. Retrofit south side, wall on Section B. Install 1/4" Dens Deck and 60 mil TPA per the Section B specification. Use existing south side metal edge as a cleat for the new metal edge. Remove interior metal edge and replace with TPA clad metal with no rise, and a 3" fascia with hemmed drip edge.
9. On Section B, skirt surface mounted counter flashings with 4" skirt flashings with hemmed drip edge.
10. Please note that the gutters on Section B are two-piece. The exterior fascia portion to match existing in shape and color.
11. Retrofit small, built-up roofs at NW and NE corners of Section B. The retrofit specification for Section B shall be utilized, minus the installation of polyisocyanurate insulation.
12. Include the aluminum coated walls along with the parapet walls for preparation and installation of the specified wall coating in Section A.
13. Install gutter guards at the gutter in Section A.

END OF SECTION

Memorial Auditorium

NOTE:	Work may be performed during the day on most of the Dates indicated as evening events. The work will be coordinated with the Project Manager				
Date	Event				
November 1, 2008	evening event				
November 6, 2008	evening event				
November 7, 2008	evening event				
November 8, 2008	evening event				
November 9, 2008	day event				
November 11, 2008	day event				
November 12, 2008	day event				
November 13, 2008	day event				
November 14, 2008	day event				
November 15, 2008	day event				
November 16, 2008	day event				
November 19, 2008	day event				
November 28, 2008	day event				
December 1, 2008	evening event				
December 2, 2008	day event				
December 3, 2008	day event				
December 6, 2008	evening event				
December 17, 2008	day event				
December 18, 2008	evening event				
January 13, 2009	evening event				
January 16, 2009	day event				
January 17, 2009	day event				

Memorial Auditorium

January 22, 2009	day event				
January 23, 2009	day event				
January 24, 2009	day event				
January 25, 2009	evening event				
January 27, 2009	day event				
February 5, 2009	evening event				
February 6, 2009	evening event				
February 7, 2009	day event				
February 10, 2009	evening event				
February 12, 2009	evening event				
February 13, 2009	day event				
February 14, 2009	day event				
February 15, 2009	day event				
February 18, 2009	evening event				
February 19, 2009	day event				
February 20, 2009	day event				
February 21, 2009	day event				
February 22, 2009	day event				
February 28, 2009	day event				
March 1, 2009	day event				
March 4, 2009	day event				
March 5, 2009	day event				
March 6, 2009	evening event				
March 7, 2009	evening event				
March 12, 2009	evening event				
March 13, 2009	day event				
March 14, 2009	day event				
March 15, 2009	day event				

CONTRACTOR NAME: D7 ROOFING SERVICES, INC.

TO THE HONORABLE CITY COUNCIL
SACRAMENTO, CALIFORNIA:

In compliance with the Contract Documents, the undersigned hereby proposes to furnish all required labor, materials, supervision, transportation, equipment, services, taxes and Incidentals required for:

**SACRAMENTO MEMORIAL AUDITORIUM ROOF REPAIR
(B09-17001111-001)**

in the City and County of Sacramento, California.

The Work is to be done in strict conformity with the Contract Documents now on file in the Office of the City Clerk, for the following sum:

Item No.	Item	Estimated Quantity	Unit	Unit Price	Total
1.	Roof Repair	1	LS	\$	<u>\$ 492,661</u>

CONTRACTOR NAME: D7 ROOFING SERVICES, INC TOTAL \$ 492,661

If awarded the Agreement, the undersigned agrees to sign said Agreement and furnish the necessary surety bonds and insurance certificates within ten (10) days after receipt of the notice of award of Agreement, and to begin work within fifteen (15) days after receipt of the Notice to Proceed by the City.

It is understood that this Bid Proposal is based upon completion of the Work within a period of **SIXTY (60) CALENDAR DAYS**. The Contractor shall coordinate activities with the Convention Center staff prior to start of work. It may be necessary for the Contractor to schedule elements of the work around existing booked events in the Auditorium. A schedule of booked events is located in Section A of the Specifications.

The City's order of preference will be as follows: base bid first, followed by additive alternates in chronological order, based on funds available.

In determining the amount bid by each bidder, the City shall disregard mathematical errors in addition, subtraction, multiplication, and division that appear obvious on the face of the Proposal. When such a mathematical error appears on the face of the Proposal, the City shall have the right to correct such error and to compute the total amount bid by said bidder on the basis of the corrected figure or figures.

When an item price is required to be set forth in the Proposal, and the total for the item set forth separately does not agree with a figure which is derived by multiplying the item price times the Engineer's estimate of the quantity of work to be performed for said item, the item price shall

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Bid Bond Security

Properly Signed Improperly Signed
 Not Included Not Required

Type of Deposit

Bid Bond Cashier/Certified Check
Other _____

Initial: V.F.

EXHIBIT B
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prevail over the sum set forth as the total for the item unless, in the sole discretion of the City, such a procedure would be inconsistent with the policy of the bidding procedure. The total paid for each such item of work shall be based upon the item price and not the total price. Should the Proposal contain only total price for the item and the item price is omitted, the City shall determine the item price by dividing the total price for the item by the Engineer's estimate of the estimated quantities of work to be performed as items of work.

If the Proposal contains neither the item price nor the total price for the item, then it shall be deemed incomplete and the Proposal shall be disregarded.

The undersigned has examined the location of the proposed Work, the local conditions at the place where the Work is to be done, is familiar with the Contract Documents and is familiar and expressly agrees to the liquidated damages provision of the Contract Documents. The undersigned has checked carefully all of the foregoing figures and understands that the City of Sacramento will not be responsible for any errors or omissions on the part of the undersigned in making up this Bid Proposal.

Enclosed is Bid Proposal Guarantee, as required, consisting of a bidder's bond or other acceptable security for not less than ten percent (10%) of the amount Bid Proposal.

The undersigned agrees that all addenda received and acknowledged herein shall become a part of and be included in this Bid Proposal. This Bid Proposal includes the following addenda:

Add. #	<u>1</u>	DATE	<u>10/23/08</u>
Add. #	_____	DATE	_____
Add. #	_____	DATE	_____

NOTE: State whether your concern is a corporation, a co-partnership, private individual, or individuals doing business under a firm name.

If the Bidder is a corporation, the Bid Proposal must be executed in the name of the corporation and must be signed by a duly authorized officer of the corporation.

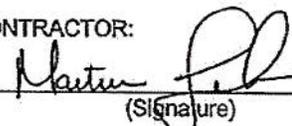
If the Bidder is a partnership, the Bid Proposal must be executed in the name of the partnership and one of the partners must subscribe their signature thereto as the authorized representative of the partnership.

AMOUNT OF BID PROPOSAL GUARANTEE ENCLOSED:

(\$ _____) not less than ten percent (10%) of amount Bid Proposal

_____ CERTIFIED CHECK
_____ CASHIER'S CHECK
 BID BOND
_____ MONEY ORDER
_____ OTHER SECURITY

CONTRACTOR:

By 
(Signature)

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MARTIN JENKINS
(Print or Type)
Title PROJECT MANAGER
Address 205 23RD ST
SACRAMENTO, CA 95816
Telephone No. 447-2175
Fax No. 447-2176
EMAIL ADDRESS _____
Date 10/29/08

Contractor's License No. 746471 Type C-39
Expiration Date 3/31/10
Tax I.D. Nos.- Fed. 94-3288937 State CALIF
City of Sacramento Business Operation Tax Certificate No. 104100
(City will not award contract if Certificate Number is missing.)

MINIMUM QUALIFICATIONS QUESTIONNAIRE

Sacramento City Code section 3.60.020 authorizes the Sacramento City Council to adopt standard minimum qualifications for bidders on competitively bid public works construction projects, and requires, among other provisions, that a bidder meet such minimum qualifications at the time of bid opening to be considered responsible. On June 8, 2004, the City Council adopted Resolution No. 2004-433 establishing these standard minimum qualifications. Pursuant to City Code section 3.60.020, a bidder failing to meet these minimum qualifications at the time of bid opening shall not be considered a responsible bidder.

All bidders must demonstrate compliance with the minimum qualifications established by Resolution No. 2004-433 by completing all of the questions contained in this questionnaire. If a bidder answers "yes" to any single question, fails to submit a fully completed questionnaire, or submits false information, this will result in a determination that the minimum qualifications are not met, and the bidder shall not be considered a responsible bidder for purposes of bidding on this contract. If two or more entities submit a bid on a contract as a Joint Venture, each entity within the Joint Venture must separately meet these minimum qualifications for the Joint Venture to be considered a responsible bidder.

The City of Sacramento ("City") shall make its determination on the basis of the submitted questionnaire, as well as any relevant information that is obtained from others or as a result of investigation by the City. While it is the intent of this questionnaire to assist the City in determining whether bidders possess the minimum qualifications necessary to submit bids on the City's competitively bid public works construction contracts, the fact that a bidder submits a questionnaire demonstrating that it meets these minimum qualifications shall not in any way limit or affect the City's ability to: (1) review other information contained in the bid submitted by the bidder, and additional relevant information, and determine whether the contractor is a responsive and/or responsible bidder; or (2) establish pre-qualification requirements for a specific contract or contracts.

By submitting this questionnaire, the bidder consents to the disclosure of its questionnaire answers: (i) to third parties for purposes of verification and investigation; (ii) in connection with any protest, challenge or appeal of any action taken by the City; and (iii) as required by any law or regulation, including without limitation the California Public Records Act (Calif. Gov't Code sections 6250 et seq.). Each questionnaire must be signed under penalty of perjury in the manner designated at the end of the form, by an individual who has the legal authority to bind the bidder submitting the questionnaire. If any information provided by a bidder becomes inaccurate, the bidder shall immediately notify the City and provide updated accurate information in writing, under penalty of perjury.

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2004-433

DATE ADOPTED: June 8, 2004

Minimum Qualifications Questionnaire
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QUESTIONNAIRE

NOTICE: All of the following questions regarding "your firm" refer to the firm (corporation, partnership or sole proprietor) submitting this questionnaire, as well as any firm(s) with which any of your firm's owners, officers, or partners are or have been associated as an owner, officer, partner or similar position within the last five years.

The firm submitting this questionnaire shall not be considered a responsible bidder if the answer to any of these questions is "yes", or if the firm submits a questionnaire that is not fully completed or contains false information.

1. Classification & Expiration Date(s) of California Contractor's License Number(s) held by firm:
746471 C-39 3/31/10

2. Has a contractor's license held by your firm and/or any owner, officer or partner of your firm been revoked at anytime in the last five years?
 Yes No

3. Within the last five years, has a surety firm completed a contract on your firm's behalf, or paid for completion of a contract to which your firm was a party, because your firm was considered to be in default or was terminated for cause by the project owner?
 Yes No

4. At the time of submitting this minimum qualifications questionnaire, is your firm ineligible to bid on or be awarded a public works contract, or perform as a subcontractor on a public works contract, pursuant to either California Labor Code section 1777.1 (prevailing wage violations) or Labor Code section 1777.7 (apprenticeship violations)?
 Yes No

5. At any time during the last five years, has your firm, or any of its owners, officers or partners been convicted of a crime involving the awarding of a contract for a government construction project, or the bidding or performance of a government contract?
 Yes No

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2004-433

DATE ADOPTED: June 8, 2004

6. Answer either subsection A or B, as applicable:

A. Your firm has completed three or more government construction contracts in Sacramento County within the last five years: Within those five years, has your firm been assessed liquidated damages on three or more government construction contracts in Sacramento County for failure to complete contract work on time?

NOTE: If there is a pending administrative or court action challenging the assessment of liquidated damages on a government contract within the last five years, you need not include that contract in responding to this question.

Yes

No

Not applicable

OR

B. Your firm has not completed at least three government construction contracts in Sacramento County within the last five years: Within the last three years, has your firm been assessed liquidated damages on three or more government construction contracts for failure to complete contract work on time?

NOTE: If there is a pending administrative or court action challenging an assessment of liquidated damages on a government contract within the last three years, you need not include that contract in responding to this question.

Yes

No

Not applicable

7. In the last three years has your firm been debarred from bidding on, or completing, any government agency or public works construction contract for any reason?

NOTE: If there is a pending administrative or court action challenging a debarment, you need not include that debarment in responding to this question.

Yes

No

8. Has CAL OSHA assessed a total of three or more penalties against your firm for any "serious" or "willful" violation occurring on construction projects performed in Sacramento County at any time within the last three years?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes

No

FOR CITY CLERK USE ONLY

RESOLUTION NO.: 2004-433

DATE ADOPTED: June 8, 2004

9. Answer either subsection A or B, as preferred:

A. In the last three years has your firm had a three year average Workers' Compensation experience modification rate exceeding 1.1?

Yes

No

OR

B. In the last three years has your firm had a three-year average incident rate for total lost workday cases exceeding 10?

NOTE: Incident rates represent the number of lost workday cases per 100 full-time workers and is to be calculated as: $(N/EH) \times 200,000$, where

N = number of lost workday cases (as defined by the U.S. Dept. of Labor, Bureau of Labor Statistics)
EH = total hours worked by all employees during the calendar year
200,000 = base for 100 equivalent full-time working (working 40 hours per week, 50 weeks per year)

Yes

No

10. In the past three years, has the federal EPA, Region IX or a California Air Quality Management District or Regional Water Quality Control Board assessed penalties three or more times, either against your firm, or against an owner for a violation resulting in whole or in part from any action or omission by your firm on a project on which your firm was a contractor?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes

No

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RESOLUTION NO.: 2004-433

DATE ADOPTED: June 8, 2004

Minimum Qualifications Questionnaire
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