

RECOVER SYSTEM INSTALLATION SPECIFICATION  
FOR:

***BURBANK TEMPORARY AID CENTER***  
***1304 West Burbank Boulevard***  
***Burbank, CA 91506***

SEPTEMBER 2023

PREPARED FOR:

BURBANK TEMPORARY AID CENTER  
1304 West Burbank Boulevard  
Burbank, CA 91506

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1304 West Burbank Boulevard  
Burbank, CA 91506***

***September 2023***

## TABLE OF CONTENTS

- ♦ Recover System Installation Specification
- ♦ Bid Proposal Form
- ♦ Bid Submittal Attachments (to be submitted with Bid Proposal form)
  - ♦ *Attachment A (Statement of Coordination)*
  - ♦ *Attachment B (Subcontractor Listing)*
- ♦ Governing Terms and Conditions of Bidder's Quotation
- ♦ Insurance Requirements
- ♦ Roof Plan
- ♦ Detail Drawings

THERMOPLASTIC PVC ROOFING – RECOVER SYSTEM  
SECTION 07540

PROJECT:     **BURBANK TEMPORARY AID CENTER**  
                  1304 WEST BURBANK BOULEVARD  
                  BURBANK, CA 91506

AREAS:        ROOF SECTIONS A & B (Maintenance & Repairs Only)  
                  ROOF SECTIONS C & D (Replacement with Recover System)

**PART 1 - GENERAL**

**1.01 SCOPE OF WORK**

A.   Scope of Work:

1.   The extent of the roofing system work is indicated on the drawings and by provisions of this section and is defined to include the proper preparation of existing roof membrane surfaces with roof sections C and D, removal and disposal of membrane flashings and sheet metal flashings to facilitate installation of a new 80 mil PVC fully adhered, fleeced-backed, single-ply roof membrane, flashings and roof accessories integrally related to the new recover type roof system installation.

This work is to also include the execution of expensive maintenance and repair actions within roof sections A and B of this building as defined herein. Work to result in the return of the existing roof systems back to a reasonably maintainable and watertight condition.

2.   Approximate Square Footages:

Maintenance & Repair Areas:

Roof Section A:	2,396 square feet
Roof Section B:	<u>1,420</u> square feet
TOTAL:	3,816 square feet

Roof Replacement Areas:

Roof Section C:	1,240 square feet
Roof Section D:	<u>746</u> square feet
TOTAL:	1,986 square feet

*NOTE: Contractor to field verify all dimensions as measurements are approximate and are provided in "plan view" which does not include for walls, slope, curbs, or waste.*

- Contractor shall provide appropriate protection to the installed roof membrane at areas where additional sub-trade related work or foot traffic may occur.

## B. Existing Roof System Descriptions:

Roof Sections A & B: The existing roof systems covering these roof sections are comprised of gravel surfacing over three (3) plies of fiberglass felt, each set into independent applications of hot asphalt, over a fiberglass base sheet. The base sheet is mechanically-attached to the diagonal wood plank roof deck using cap nails.

Roof Sections C & D: The existing roof systems covering these roof sections are comprised of a mineral surfaced cap sheet over two (2) plies of fiberglass felt, each set into independent applications of hot asphalt, over a fiberglass base sheet. The base sheet is mechanically-attached to the diagonal wood plank roof deck using cap nails.

## C. New Roof System Description at Roof Sections C &amp; D:

- The new roof system shall consist of a white, Title 24 compliant, Energy Star® rated, asphalt-resistant, fully adhered fleeced-backed, 80 mil PVC single-ply membrane, over the prepared roof membrane surface.
- The PVC single-ply roof membrane shall be an extrusion coat type membrane. The membrane shall have a minimum of 22 mils of waterproofing polymers above the reinforcements as documented by a third-party source. Membranes with less than the 22 mil waterproofing polymers above the reinforcement may be subject to rejection.
- New membrane flashings at walls, curbs, platforms, and transitions are to be constructed from a 60-mil thick asphalt-resistant flashing membrane in accordance with applicable detail drawings.
- Follow manufacturer's standard detail and installation procedures. If there are any unidentified details, Contractor shall submit a sketch of the proposed detail to the Owner's representative for review and acceptance.

5. Contractor shall verify condition of substrate, curbs, penetrations, flashings, equipment supports, etc. and shall notify the Owner's representative of any discrepancies in the scope of work prior to commencement of roofing.
6. Contractor shall provide a 20-Year Manufacturer's warranty including a 72 mile-per-hour coverage against wind uplift and a 2-Year Contractor's guarantee.

D. Special Project Conditions:

1. Roof Sections A & B (Maintenance & Repair Actions):

- a. The grooming of gravel surfaces to ensure uniform and complete membrane coverage is provided. Bare spots in the gravel surfacing are to be reinforced with cold-application adhesive and additional gravel.
- b. At the east end of roof section, A, the repair of the deep membrane gouge adjacent to the mechanical unit with a three-course application of elastic cement and polyester fabric. The three-course application is to receive a gravel embed to the point of refusal. Work to result in a "blind" repair.
- c. The removal and replacement of loose and wrinkled wall flashings with new modified bitumen flashings to match existing.
- d. The resealing of inside and outside membrane flashing corners at walls, curbs, and platforms with a three-course application of white elastic cement and polyester reinforcing fabric.
- e. The restoration of sheet metal coping flashings and expansion flashings at building walls to include the resealing of flashing joints and transitions with a three-course application of white elastic cement and polyester reinforcing fabric and the treatment of flashing surfaces with rust inhibitive primer and two (2) coats of exterior grade reflective silver enamel paint.
- f. The restoration of cast iron roof drains to include the replacement of missing or damaged components with new components to match existing, the treatment of cast iron surfaces with primer and two (2) coats of exterior grade Safety Orange enamel paint. This work is to include water testing of drain lines with repair to faulty connections or damaged piping for the first 10 lineal feet of the drain system. The work is to result in a fully functional drain system free of leakage.
- g. The resealing of interior edges of through-wall scupper flashings and the corners/transitions of drain sumps with three-course applications of white elastic cement and polyester reinforcing fabric.

- h. The restoration of the roof hatch assembly to include the replacement of damaged or missing operating components and the treatment of hatch surfaces with primer and two (2) coats of exterior grade Federal Safety Red enamel paint. This work is to include the installation of a new OSHA compliant steel safety railing system with self-closing gate such as KeeHatch® Roof Hatch Railing system as provided by Simplified Safety.
  - i. The restoration of mechanical duct flashings to include the resealing of joints and transitions with a three-course application of white elastic cement a polyester reinforcing fabric, and the treatment of flashing surfaces with rust inhibitive primer and two (2) coats of white acrylic-based roof coating. Work to include the sealing of the base of self-flashing duct penetrations with a three-course application of elastic cement and polyester fabric extending 6-inches onto the prepared membrane surface and 6-inches up duct flashing surfaces.
  - j. The resealing of the base and collar of roof jack and vent flashing assemblies with a continuous three-course application of white elastic cement and polyester reinforcing fabric.
  - k. The treatment of sheet metal pan flashing surfaces with rust inhibitive primer and two (2) coats of exterior grade reflective silver enamel paint.
  - l. The removal and replacement of existing T-top hood flashings with new 24-gauge galvanized sheet metal hood flashings constructed with end caps. Flashing collars are to be equipped with new restrictive corrosion resistant wire mesh bird and rodent screens.
  - m. Vertical duct supports with missing caps or openings in the tube steel are to be permanently sealed with new end caps and three-course applications.
2. Roof Sections C & D (Replacements):
- a. The installation of a new PVC coated clad metal edge flashing assembly along roof edges and the top of walls where no coping or cap flashing is provided. The new edge flashing is to be constructed with a 3-inch-wide vertical flange.
  - b. The restoration of sheet metal expansion flashings at building walls to include the resealing of flashing joints and transitions with a three-course application of white elastic cement and polyester reinforcing fabric and the treatment of flashing surfaces with rust inhibitive primer and two (2) coats of exterior grade reflective silver enamel paint.

- c. At the north wall of roof section D, the removal and disposal of the clay mission tile caps to facilitate the new roof system flashing installations. This work is to include the restoration of the sheet metal cap/transition flashing at the exterior side of the building wall. Flashing restorations are to include the removal and replacement of deteriorated seals with new three-course applications, and treatment of flashing surfaces with rust inhibitive primer and two (2) coats of exterior grade enamel paint. Color of paint to closely match existing.
- d. At the outside edge of the east wall of roof section D, the covering of the exposed portion of the wall with base and topcoat applications of white acrylic-based roof coating and polyester reinforcing fabric. The new coating application is to cover the exposed portion of the wall extending over the top edge of the expansion flashing flange and underneath the vertical flange of the new clad metal edge flashing of the new roof system.
- e. The restoration of the cast iron roof drain to include the replacement of missing or damaged components with new components to match existing, the treatment of cast iron surfaces with primer and two (2) coats of exterior grade Safety Orange enamel paint. This work is to include water testing of drain lines with repair to faulty connections or damaged piping for the first 10 lineal feet of the drain system. The work is to result in a fully functional drain system free of leakage.
- f. The replacement of existing rain gutter flashings along the south roof edges of roof section C with new seamless steel rain gutter flashings and downspout assemblies. Gutter troughs are to be equipped with prefabricated leaf screens and downspout openings are to be equipped with domed corrosion resistant wire mesh strainers.
- g. At square self-flashing mechanical ducts, the fabrication and installation of new clad metal base flashings extending a minimum of 10 inches up the surface of the ducts. The top edges of the base flashings are to be fastened and sealed with a three-course application of white elastic cement and polyester reinforcing fabric.
- h. The restoration of mechanical duct flashings to include the resealing of joints and transitions with a three-course application of white elastic cement and polyester reinforcing fabric, and the treatment of flashing surfaces with rust inhibitive primer and two (2) coats of white acrylic-based roof coating.

- i. The replacement of exposed wooden sleeper supports with new pressure treated or redwood sleeper supports of size, profile, and dimensions to match existing. The new supports are to be equipped with 96 mil thick protection pads and are to be positioned in such a manner as to span two (2) structural support members in the deck and so as not to impede water flow to drain. Work to result in the level condition of the unit and is to include the installation of proper seismic strapping.
- j. At the curb-mounted HVAC unit within roof section D, the fabrication and installation of a new galvanized sheet metal counterflashing insert with interlocking seams and closed corner flashings.
- k. The fabrication and installation of the following flashings with the roof assembly:
  - i. At plumbing, electrical, cylindrical duct, and solar tube penetrations, the installation of new cone flashings fabricated of PVC single-ply material. The top edges of new flashings are to be sealed with stainless steel cinch bands and continuous urethane caulking applications or three-course applications and a storm collar assembly.
  - ii. At low-profile vent flashings, the removal and proper disposal/recycling of existing flashings and replacement with new T-top vent flashings. New flashings are to be constructed with 24-gauge galvanized sheet metal base and hood flashing assemblies. Base flashings are to be covered with a PVC boot flashing assembly with the collar of the boot flashing sealed with a stainless-steel cinch band and a tooled application of urethane-based sealant. New hood flashings are to be fastened to the clad metal base with two (2) screws equipped with steel and rubberized washers per side and are to be equipped with end caps to restrict wind driven rain. Vent openings are to be covered with corrosion resistant wire mesh to restrict access to birds and rodents.
  - iii. At insulated or multiple pipe penetrations, the fabrication and installation of new PVC coated clad metal pelican hood flashings. New flashings are to be fabricated with all seams riveted and sealed with PVC stripping plies. The interior, of flashing throats, is to be sealed with minimal expanding spray-polyurethane foam prior to the installation of new galvanized sheet metal cover/face plates.



- iv. At heater stack flashings, the installation of new PVC coated clad metal base flashings. Flashing collars are to be oversized by 1-inch in diameter and filled with a heat resistant “batt” type insulation to allow heat to dissipate through the opening at the top edge of the flashing collar. Flashing collars are to be equipped with new prefabricated and oversized corrosion resistant sheet metal storm collars positioned roughly 1-inch from the top edge of the flashing collar. Stack flashings are to be equipped with new corrosion resistant sheet metal cap flashings. New cap flashings are to be size appropriate to accommodate the existing stack flashing assembly.
- v. At short and irregular shaped penetrations, where a traditional boot flashing assembly cannot be installed, penetrations are to be flashed with fluid-applied and polyester reinforced liquid flashing membrane. The new flashing membrane is to extend to the top edge of the penetration encapsulating all surfaces and shall extend onto the PVC membrane surface a minimum of 6 inches past the membrane’s termination bar.
- l. Mechanical duct support legs are to receive new 96 mil thick roof protection pads heat welded to the roof membrane. New pads are to extend 2 inches past the outside edge of the support in all directions.
- m. The support of conduit and condensation lines that transverse the roof surface with new pressure-treated or redwood support blocks spaced 5 feet on center. Support blocks are to be equipped with PVC single-ply protection pads. This work is to include the redirection and sloping of condensation lines to the nearest drain assembly or gutter flashing.
- n. At roof edges where a low wall (or no wall) is present and at the south roof edge of roof section D, the installation of a 4-inch-wide safety warning line placed 6 feet back from the roof edges.

E. Contractor Shall Provide Unit Prices for the Following Items:

- 1. Provide an ADDITIVE cost, per member, on the enclosed Bid Proposal Form, for the replacement of any damaged or otherwise deteriorated decking with new 1-inch x 6-inch Douglas Fir #1 grade decking boards. Quoted cost to include installation of new (2) Simpson hangers.

**1.02 QUALITY ASSURANCE**

- A. This roofing system shall be applied only by a roofing Contractor (“applicator”) authorized/certified by the primary material manufacturer prior to bidding. The Contractor shall have at least five (5) years of experience as an applicator with the specified materials.
- B. Upon completion of the new roof system, the Contractor shall deliver to the manufacturer a letter of certification stating that all work has been done in strict accordance with the contract documents, specifications, and Manufacturer’s published requirements. Following delivery, an inspection shall be made by a Technical Representative of the Manufacturer and Owner’s representative to review the completed roof system.
- C. There shall be no deviation made from the Project Specification or the approved shop drawings without prior written approval by the Owner’s representative.
- D. All work pertaining to the installation of PVC membrane and flashings shall only be completed by applicator personnel trained and authorized by the Membrane Manufacturer in those procedures.
- E. Membrane to have no performance formulation changes in the last ten (10) years as certified by the manufacturer.
- F. Manufacturer’s warranty shall be “No Dollar Limit” or “Full System” type including the replacement of defective materials and/or labor and shall not contain any exclusions for ponding water.

**1.03 SUBMITTALS**

- A. Submittals of Specific Materials: At the time of award, the applicator shall submit to the Owner’s representative physical samples and electronic copies of the following:
  - 1. Samples of each primary component to be used in the roof system and the manufacturer’s current literature for each component.
  - 2. Sample copy of Manufacturer’s 10-Year, NDL (No-Dollar-Limit) Material & Labor Warranty.
  - 3. Sample copy of Applicator’s 2-Year Workmanship Guarantee.

4. Certifications by Manufacturers of roofing materials that all materials supplied comply with all requirements of the identified ASTM and industry standards or practices.
  5. Certification from the Applicator that the system specified meets all identified code and insurance requirements as required by the Specification.
  6. Product Data Sheets (PDS) and Material Safety Data Sheets (MSDS) for all products to be used on the project.
  7. Provide shop drawings for all sheet metal to be used in conjunction with the new roof membrane installation, i.e., edge metal, custom transition, and termination metal flashings, etc.
  8. Contractor shall submit a work schedule breaking down the sequence of work for the duration of the project, including coordination of any subtrades necessary to complete the project.
  9. Contractor shall submit a list of contact names and phone numbers for jobsite foreman including all subtrades.
  10. A detailed work plan indicating the number of workdays, the size of daily crew, activities to be accomplished, intended disposal location, specific daily hours of operation, and other such information requested by the Owner to help determine that the Contractor has adequately planned the work.
  11. If deemed necessary, the Contractor shall submit a site plan with anticipated staging area which details location of planned boundaries, equipment, sanitary facility, disposal containers, material storage on site, vehicle parking plan, safety barriers and planned access.
  12. Prior to the start of the work, Contractor shall perform a thorough inspection of the interior and exterior, noting all existing damage including past and current leakage. Documentation of this inspection shall be submitted to the Owner prior to beginning the work. The contractor shall be responsible for correction of any subsequent, undocumented damage or leakage.
- B. Prior to Owner's final acceptance and issuance of final payment, Contractor shall provide the following:
1. A letter from the Owner's representative stating all repairs and maintenance measures have been completed.

2. Specified Manufacturer’s 20-Year Material Warranty and 2-Year Contractor’s Guarantees.

#### 1.04 REFERENCE STANDARDS

ANSI	American National Standard Institute Washington, DC (202) 293-8020
ASTM	American Society for Testing and Materials Philadelphia, PA (215) 299-5585
CBC	California Building Code
FM	Factory Mutual Engineering and Research Norwood, MA (617) 762-4300
NEC	National Electric Code
NRCA	National Roofing Contractor Association Rosemont, IL (708) 299-9070
OSHA	Occupational Safety and Health Administration Washington, DC (202) 523-8036
SMACNA	Sheet Metal and Air Conditioning Contractors National Association Chantilly, VA (703) 803-2980
SPRI	Single-Ply Roofing Institute
PC	Plumbing Code
UL	Underwriters’ Laboratories Northbrook, IL (708) 272-8800

#### 1.05 CODE REQUIREMENTS

- A. The applicator shall submit evidence that the proposed roof system meets the requirements of the local building code and has been tested and approved or listed by the following test organizations. These requirements are minimum standards and no roofing work shall commence without written documentation of the system’s compliance, as required in the “Submittals” section of this specification.

- B. Factory Mutual Research Corporation (FM) – Norwood, MA
  - 1. Class 1-60 (1-90) - Design Criteria for Wind Uplift.
- C. Underwriters Laboratories, Inc. – Northbrook, IL
  - 1. Class A assembly.

#### **1.06 PRODUCT HANDLING**

- A. All products delivered to the job site shall be in the original unopened containers or wrappings bearing all seals and approvals.
- B. Handle all materials in such a manner as to prevent damage. Place all materials on pallets and fully protect from exposure to weather. Materials delivered to the project found damaged or open will be rejected for use and removed from the site.
- C. Membrane rolls shall be stored lying down on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented/non-breathable polyethylene tarpaulins are not acceptable due to the potential for accumulations of moisture beneath the tarpaulin in certain weather conditions.
- D. All adhesives, sealants and caulking shall be stored at temperatures between 40-degrees Fahrenheit and 80-degrees Fahrenheit.
- E. All flammable materials shall be stored in a cool, dry area away from sparks and open flames. Follow precautions outlined on containers or supplied by material manufacturer/supplier.
- F. All materials which are determined to be damaged by the Owner's representatives or Manufacturer are to be removed from the job site and replaced at no cost to the Owner.

#### **1.07 JOB CONDITIONS**

- A. Roof materials may be installed under certain adverse weather conditions but only after consultation with Manufacturer, as installation time and system integrity may be affected.
- B. Only as much of the new roofing as can be made weathertight each day, including all flashing and detail work, shall be installed. All seams shall be cleaned and heat welded before leaving the job site that day.

- C. All work shall be scheduled and executed without exposing the interior building areas to the effects of inclement weather. The existing building and its contents shall be protected against all risks.
- D. All surfaces to receive insulation, underlayment board, membrane or membrane flashings shall be dry. Should surface moisture occur, the applicator shall provide the necessary equipment to dry the surface prior to commencing with the installation of the roof assembly.
- E. All new and temporary construction, including equipment and accessories, shall be secured in such a manner as to preclude wind blow-off and subsequent roof or equipment damage.
- F. Uninterrupted waterstops shall be installed at the end of each day's work and shall be completely removed before proceeding with the following day's work. Waterstops shall not emit dangerous or unsafe fumes and shall not remain in contact with the finished roof as the installation progresses. Contaminated membrane shall be replaced at no cost to the Owner.
- G. Arrange work sequence to avoid use of newly constructed roofing as a walking surface or for equipment movement and storage. Where such access is absolutely required, the applicator shall provide all necessary protection and barriers to segregate the work area and to prevent damage to adjacent areas. A substantial protection layer consisting of plywood over an 11 ounce polypropylene felt shall be provided for all new and existing roof areas that receive rooftop traffic during construction.
- H. Prior to and during application, all dirt, debris and dust shall be removed from surfaces by sweeping, blowing with compressed air and/or similar methods.
- I. The Applicator shall follow all safety regulations as required by OSHA and any other applicable authority having jurisdiction.
- J. All roofing waste material (i.e., scrap roof membrane, empty cans of adhesive) shall be immediately removed from the site by the Applicator and properly transported to a legal dumping area authorized to receive such material.
- K. The Applicator shall take precautions that storage and/or application of materials and/or equipment does not overload the roof deck or building structure.
- L. Flammable adhesives and primers shall not be stored and not be used in the vicinity of open flames, sparks and excessive heat.

- M. The Applicator shall conduct fastener pullout tests in accordance with the latest revision of the SPRI/ANSI Fastener Pullout Standard to help verify the acceptable condition of deck/substrate and to confirm expected pullout values.

#### **1.08 WARRANTY/GUARANTEES**

- A. Manufacturer's 20-Year "NDL" of "Full-System" Type Warranty: Upon successful completion of the work to the Roofing Manufacturer's and Owner's satisfaction, and receipt of final payment, the twenty (20) Year NDL Warranty shall be issued.
- B. Applicator/Roofing Contractor 2-Year Guarantee: The Applicator shall supply the Owner with a two (2) year Workmanship Guarantee. In the event any work related to roofing, flashing, or metal is found to be within the Applicator guarantee term, defective or otherwise not in accordance with the contract documents, the Applicator shall repair that defect at no cost to the Owner. The Applicator's guarantee obligation shall run directly to the Owner.
- C. Owner Responsibility: Owner shall notify both Manufacturer and the Applicator of any leaks as they occur during the time period when both warranties are in effect.
- D. Maintenance & Repair Guarantee: Contractor shall provide a 2-year workmanship guarantee covering interior leakage resultant of failures in the roof system, system flashings and mechanical duct flashings.

#### **1.09 PRE-ROOFING CONFERENCE**

- A. The Applicator, Owner's representative, related Subcontractors and Manufacturer(s) shall attend a pre-roofing conference. The pre-roofing conference should be scheduled a minimum two (2) weeks prior to commencement of roofing.
- B. The meeting shall discuss all aspects of the project including but not limited to:
  - 1. Safety
  - 2. Set up
  - 3. Construction schedule
  - 4. Contract conditions
  - 5. Coordination of the work
  - 6. Review project specifications, detail drawings and pertinent contract documents.
  - 7. Review of roof system requirements and installation procedures to be utilized.
  - 8. Field conditions noted during deck/field walk.

**PART 2 - PRODUCTS****2.01 GENERAL**

- A. Components to be used that are other than those supplied or manufactured by the primary Manufacturer may be submitted for review and acceptance by the Owner's representative. Acceptance of any other product is only for a determination of compatibility with the Manufacturer's products and not for inclusion in the Manufacturer's warranty.
- B. All products shall comply with the latest VOC requirements.

**2.02 MEMBRANE**

- A. A white, 72-mil-thick, fiberglass-reinforced, PVC single-ply roof membrane with a 9-ounce factory applied felt backing and lacquer coating, conforming to ASTM DD4434-96 (or latest revision), "Standard for Polyvinyl Chloride Sheet Roofing," Classification: Type II, Grade 1.
  - 1. Sarnafil G410-20, 80-mil., thermoplastic membrane with fiberglass reinforcement and felt backing.
- B. Certified Polymer Thickness:
  - 1. Membrane manufacturer is to certify that the polymer thickness is of the polymer thickness specified (see 2.03, A-1). Certification is to be signed by the membrane manufacturer's quality control manager.
- C. Color of Membrane:
  - 1. EnergySmart (Beige/Tan), initial reflectivity of 0.83, initial emissivity 0.92, solar reflective index (SRI) of >104.

**2.03 FLASHING MATERIALS**

- A. Flashing Membrane ("G410" Flashing Membrane): A fiberglass reinforced membrane adhered to approved substrate using VOC compliant adhesive. The color of flashing membrane shall be light gray. The flashing membrane shall conform to ASTM D4434-96, and be a Type II, Grade 1 flashing membrane.



- B. Asphalt-Resistant Flashing Membrane (“G459”): An asphalt-resistant fiberglass reinforced membrane adhered to approved substrate using VOC compliant adhesive. The color of flashing membrane shall be light gray. The flashing membrane shall conform to ASTM D4434-96, and be a Type II, Grade 1 flashing membrane.
- C. Flanged Metal Flashings (PVC Clad Metal): A white PVC-coated, heat-weldable sheet metal capable of being formed into a variety of shapes and profiles. Clad is a 25-gauge G90 galvanized metal sheet with a 20-mil unsupported PVC membrane, laminated on one side.

#### **2.04 PRE-TAPERED INSULATION BOARD**

- A. Expanded Polystyrene (EPS) Insulation: A pre-tapered closed cell, rigid cellular plastic insulation made from petroleum derived products. The EPS insulation shall meet or exceed Federal Specification per ASTM C578 (Supersedes Federal Specification HH-I-524C) and shall be used for the construction of cricket assemblies. For use to construct cricket assemblies on the high side of curbs, platforms, and penetrations in excess of 24 inches in width and at low-lying areas of the substrate to correct standing water conditions.

#### **2.05 ATTACHMENT COMPONENTS**

- A. Adhesion of Membrane to Approved Substrates: A solvent-based, VOC compliant, reactivating adhesive used to attach the membrane to the substrate. Sarnacol 2170 VC Adhesive.
- B. Adhesion of Membrane to Metal Flashing Surfaces: A VOC compliant solvent-based thinner reactivating-type specifically formulated adhesive used to attach the membrane to the metal substrate. STABOND C-148B or approved equal.
- C. Adhesion of Insulation/Underlayment Boards: A low-odor, VOC compliant, one step, low-rise urethane-based foam adhesive used to attach insulation to approved substrates. Sarnacol 2163 Adhesive.
- D. Low-Rise Foam Adhesive: Used for the adhesion of subsequent layers of tapered EPS insulation. Adhesive shall meet UL Standard for Safety for Uplift Tests for Roof Covering Systems.
- E. Insulation Fasteners: #14 corrosion-resistant fastener used to attach insulation and/or underlayment boards to structural concrete roof decks. Sarnafastener – HD.
- F. Insulation Fastener Plates: Stress plate specifically designed for use with approved fasteners to attach insulation and underlayment boards to acceptable roof decks. Sarnaplate – Low Profile.

- G. Max-Load Fastener: A specially designed, heavy-duty, corrosion-resistant fastener used with Max-Load to attach roof membrane to roof decks. Max-Load fastener has a shank diameter of approximately 0.26-inch and a thread diameter of approximately 0.26-inch.

The driving head has a diameter of approximately 0.66-inch with a #3 Phillips recess for positive engagement of application. Max-Load fastener shall meet Factory Mutual 4470 for corrosion resistance.

- H. Max-Load Seam Plate: Max-Load seam plate is a high strength, round barbed plate used with a Max-Load fastener to attach the roof membrane to the roof decks. Max-Load seam plate is a 20 gauge, 3-inch round corrosion resistant steel plate. Max-Load seam plate shall meet Factory Mutual 4470 for corrosion resistance.
- I. Base Sheet Fastener: Split shanked fasteners specifically designed for use with LWIC roof decks. Fasteners are to be constructed with a 2.75-inch diameter plate and a corrosion resistant coating to meet or exceed F.M. Approval Standard 4470. OMG CR-Base Sheet Fastener or approved equal.

## 2.06 ACCESSORIES

- A. Thinner: A V.O.C. compliant thinning formula used to reactivate membrane adhesive if necessary. STABOND "C" or approved equal.
- B. Eternabond: A self-adhering 100% solids formulation of synthetic resins, thermoplastics, and non-curing rubber (non butyl) with a built-in primer, bonded to a woven polyester backing for maximum conformability.
- C. Eternabond WebSeal: A self-adhering 100% solids formulation of synthetic resins, thermoplastics, and non-curing rubber (non-butyl) with a built-in primer, bonded to a woven and paintable polyester backing for maximum conformability.
- D. Elastic Cement: A water-based, elastomeric flashing patching and sealing compound formulated with premium acrylic rubber resins, inert mineral pigments, and non-asbestos fibers to form a permanent elastomeric waterproofing and sealing compound such as WCP-800 elastic cement, as manufactured by Weston Colloid or approved equal.
- E. Polyester Reinforcing Fabric: A 3-ounce, heavyweight stitch-bonded polyester fabric with medium-soft finish such as WCP-HS (4-inches wide) as manufactured by Western Colloid or approved equal.
- F. Aluminum Tape: A 2-inch-wide pressure-sensitive aluminum tape used as a separation layer between small areas of asphalt contamination and the membrane and as a bond-breaker under the cover strip at PVC clad joints.

- G. Membrane Cleaner: A high quality solvent cleaner used for the general cleaning of residual asphalt, scuff marks, etc., from the membrane surface. Membrane cleaner is also used daily to clean seam areas prior to hot-air welding in tear off or dirty conditions or if the membrane is not welded the same day it is unrolled.
- H. Prefabricated PVC Corner: Prefabricated outside and inside flashing corners made of 60 mil thick membrane that are heat-welded to membrane or PVC clad base flashings. Prefabricated corners are available in two outside sizes and one inside size.
- I. VOC Compliant Adhesive for Vertical Surfaces: A VOC compliant solvent-based reactivating-type adhesive used to attach the membrane to the flashing substrate.
- J. Primer for Structural Concrete Decks: VOC compliant primer composed of synthetic polymers, solvents and resins for use when adhering insulation to concrete roof decks. Sarnavap SA Primer VC.

## 2.07 SEALANTS

- A. Multi-Purpose Sealant: One-part, moisture-curing, gun grade sealant used at certain flashings details for termination of the waterproofing assembly. The sealant is to be polyurethane-based and VOC compliant.
- B. Depending on substrates, the following sealant options are acceptable to construct temporary overnight water cut-offs:
  - 1. Spray-applied, water-resistant urethane foam.
  - 2. Mechanical attachment with manufacturer approved rigid bars and compressed urethane sealant.

## 2.08 RELATED MATERIALS

- A. Fasteners and Anchors: All fasteners, anchors, nails, straps, bars, etc. shall be post-galvanized steel, aluminum, or stainless steel. Mixing metal types and methods of contact shall be assembled in such a manner as to avoid galvanic corrosion. Fasteners for attachment of metal to masonry shall be expansion type fasteners with stainless steel pins. All miscellaneous wood fasteners and anchors used for flashings shall have a minimum embedment of 1-inch and shall be approved for such use by the fastener manufacturer.
- B. Rust Prohibitive Primer: "1500 System Speedy-Dry", for use over roof related metal components, as manufactured by Rust-Oleum.

- C. Sheet Metal Counterflashing Inserts/Skirts: Shall be made of 24-gauge galvanized sheet metal, in accordance with detail drawing. Flashing skirts are to be primed and pre-painted to match adjoining flashing surfaces.
- D. Custom Closed Corner Flashings: Shall be made of 24-gauge galvanized sheet metal, in accordance with applicable detail drawing. All transition flashings shall be constructed with fully soldered seams.
- E. Wood Blocking: All wood blocking for exposed support blocks shall be non-perforated pressure-treated lumber or redwood, cut to size in accordance with detail drawings.

## 2.09 MAINTENACE & REPAIR MATERIALS

- A. Water Based Primer: Shall be as specified herein and as required by system Material Manufacturer. Primer may consist of asphalt emulsion diluted with water 20 to 30 percent, if allowed by system Material Manufacturer.
- B. Asphalt Primer: Asphalt-based primer for use in the preparation and priming of sheet metal, membrane, and concrete/masonry surfaces. ASTM D 41-85.
- C. Polyester Fabric:
  - 1. Field Areas: Shall be minimum 2.75-ounce standard weight stitch-bound polyester fabric with a firm finish used as a reinforcing fabric in cold acrylic coating; WCP-SF as manufactured by Western Colloid, T325 as manufactured by National Coatings, or approved equal.
  - 2. Flashing Areas: Shall be minimum 3.0-ounce soft, stitch-bound polyester fabric used as a reinforcing fabric in cold acrylic coating; WCP-HS as manufactured by Western Colloid, T272 as manufactured by National Coatings, of approved equal.
- D. Woven Glass Fabric (“webbing”): For use in the reinforcing of roof cement/flashing seals. ASTM D 1668, Type I.
- E. Elastomeric Acrylic Cement: A water-based flashing patching and sealing compound utilizing latex rubber to maintain a permanent elasticity; #800W Elastomeric Cement as manufactured by Western Colloid, AcryFlex A150 as manufactured by National Coatings or approved equal.
- F. Asphalt Emulsion: An asphaltic bentonite clay emulsion for use as a waterproofing compound conforming to ASTM D 1227, Type III and to ASTM D 1187; #298 Asphalt Emulsion as manufactured by Western Colloid, LiquiSeal A200 as manufactured by National Coatings or approved equal.

- G. White Energy Star Top Coating: A water-based specially formulated white reflective coating conforming to ASTM D-1227, Type III; #720 Elastahyde "White" Energy Star Roof Top Coating as manufactured by Western Colloid, AcryShield 400 as manufactured by National Coatings or approved equal.
- H. Sealant: Elastomeric sealant shall be a low modulus, high performance, one-part polyurethane conforming to Federal Specification No. TT-S-00230C, Type II, Class A, such as Mameco Vulkem 921 or Sikaflex-15LM.
- I. Roof Protection Material: Roof protection material shall consist of a ½-inch-thick granule-surfaced asphaltic pad, a minimum 3-foot x 4-foot in dimension such as, APOC Deck-Top, as manufactured by Gardner Asphalt Corporation, Tampa, FL, 1-800-562-5669 or approved equal.
- J. Paintable Seal Tape: Self-adhering seal tape including a 100% solids formulation of non-curing rubber, synthetic resins, and thermoplastics bonded to woven polyester backing, such as Eternabond manufactured WebSeal or approved equal.
- K. Fiberglass Base Sheet: Shall be 25 lb. (approximate), asphalt coated, G-2 type base sheet conforming to ASTM D 4601; as manufactured by Johns Manville, GAF, or approved equal.
- L. Cant Strips: Nominal 4-inch by 4-inch pre-formed fiberboard cant strip, ASTM C 208.
- M. Modified Bitumen Repair Material: Reinforced Modified Bitumen Membrane (APP), minimum 4.0 mm thick, such as APPeX 4.5M manufactured by Johns Manville, Ruberoid Torch manufactured by GAF or approved equal. Granule surfaced sheets are generally anticipated for this project in order to match existing roofing conditions. Smooth surfaced sheets may be used where covered by granule surfaced sheets at two (2) layer repair locations. Optional modified bitumen repair materials would include the following:
1. Optional Modified Bitumen Repair Material: Reinforced Modified Bitumen Membrane (SBS), minimum 4.0 mm thick, such as DynaKap manufactured by Johns Manville, Ruberoid Mop manufactured by GAF or approved equal.
  2. Optional Modified Bitumen Repair Material Adhesive: An SBS modified flashing cement used as a cold-applied bonding agent for bonding SBS modified bitumen membranes. Product shall be manufactured by optional modified bitumen repair material manufacturer for use with this repair material, such as MBR Cold Application Adhesive manufactured by Johns Manville, Topcoat Matrix 202 SBS Flashing Cement manufactured by GAF or approved equal.

## N. Fasteners:

1. Base Flashing to Wood Members: 1-½-inch barbed roofing nails through 1-inch metal discs.
2. Base Sheet to Plywood Deck: 12-gauge nail with annular thread or serrated shank and integral 1-inch diameter metal disc minimum 1-inch length.
3. Metal Flanges to Plywood Deck: Annular threaded nail with 3/8-inch diameter head to penetrate wood 1-½-inch minimum.
4. Base Flashing to Concrete/Masonry: Specially threaded anchors, brand name "Tapcon", 3/16-inch minimum diameter, length to penetrate a minimum 1-½-inches into the concrete, manufactured by Buildex, a division of Illinois Tool Works, Inc., 2500 Brickvale Drive, Elk Grove Village, Illinois 60007, or approved equal, for securing base flashing to concrete surfaces. The installed withdrawal resistance shall be a minimum of 150 pounds per anchor. Fasteners shall be driven through a 1-inch wide, 20-gauge metal termination bar.
5. Exposed Fasteners: Exposed fasteners shall be turned in, such as screws, and shall have a minimum of 5/8-inch diameter steel backed rubber washers under heads.

## O. Sheet Metal:

1. Galvanized Iron: Shall be 24-gauge or as otherwise specified or shown on the drawings, meeting ASTM A 526, G-90 coating designation.
2. Soldering flux: Soldering flux shall conform to Federal Specification O-F-506C, Type I Form A or B.
3. Solder: Solder shall conform to ASTM B 32-70 alloy grade 58: 50% tin, 50% lead.

P. Paint: Paint shall be 100% acrylic enamel as manufactured by Dunn Edwards or approved equal and shall be applied in accordance with the Manufacturer's published recommendations including priming. Color to be approved by the City.

Q. Self-Adhered Waterproofing Underlayment: Grace Ice & Water Shield or approved equal. Self-Adhered Waterproofing Underlayment shall be high temperature product where used under sheet metal, such as Grace manufactured Ultra.

**PART 3 - EXECUTION****3.01 GENERAL**

- A. Prior to installation of new roofing, Contractor shall inspect the existing roof conditions and verify that the new roof system may be installed in strict accordance with original design, the manufacturer's current recommendations, the spirit and intent of these specifications and all other pertinent codes and regulations.
1. No new roofing will be applied until the surfaces are reviewed jointly by the Manufacturer, Roofing Contractor, Quality Controller and/or Owner's representative.
  2. Any deteriorated or damaged decking noted shall be brought to the attention of the Owner. Replacement shall be at the discretion of the Owner with any necessary replacement costs to be borne by the Owner. Repairs to the roof deck are to be executed using like decking materials.
  3. Commencement of roofing application over any section will indicate acceptability by the Contractor of that section and he will be responsible for any corrective work which may be occasioned by his having started over an unsatisfactory surface.
- B. Absolutely no work shall be done unless an appointed Observer or Owner's representative is present. Any work done without proper inspection will be rejected and subsequently ordered to be removed and replaced at no additional cost to the Owner.
- C. Clean all surfaces of debris, and of any moisture, before proceeding with application of the new roof system.
- D. Existing materials to be disposed of are to be removed and discarded per Federal, State and Local regulations governing these procedures.
1. Contractor is to keep the roof and premises clean and free from accumulations of waste materials and rubbish at all times. All debris, scrap, and rubbish shall be removed from the work area on a daily basis.
  2. Materials shall not be stockpiled on the roof. The Contractor is responsible for all damage resulting from overloading the existing roof deck and its related structure.
  3. All materials to be disposed of shall be loaded directly from the roof into trucks or disposal containers by means of approved methods that will prevent damage to buildings and grounds, and to preclude pollution. No unrestricted free-fall of debris into containers is permitted on this project.

- E. Plug internal roof drains with properly sized drain plugs to prevent the possibility of debris migrating into drain lines. Contractor shall remove drain plugs at the end of each workday.

### 3.02 PRE-TAPERED ROOF INSULATION INSTALLATION

- A. At low lying areas and over the prepared roof membrane surface, install the specified rigid tapered roof insulation into ribbon applications of low-rise foam adhesive complying with Factory Mutual I-60 wind uplift resistance requirements.
- B. Install tapered roof insulation panels to create crickets along the upper slope of all curb openings greater than 2-feet in width to facilitate positive drainage over clean, dry membrane surface. Insulation panels shall be adhered to as defined above.
- C. Tapered insulation boards shall be installed with thick sides placed back to back in such a manner as to lift low-lying areas of the substrate to ensure positive slope to drain while creating a smooth membrane transition along perimeter edges.
- D. Where necessary, additional layers of tapered insulation may be required to alleviate the low point in the application. Subsequent layers of insulation are to be installed with joints offset a minimum of 12-inches in all directions and are to be adhered in the manner described above.

### 3.03 INSTALLATION OF PVC MEMBRANE

- A. Fully Adhered Membrane Attachment:

- 1. Field Membrane Attachment: Over the properly installed and prepared substrate, the adhesive shall be applied using a solvent-resistant 3/4-inch nap roller. The adhesive is to be applied to the substrate at a rate of 100 square feet per gallon. The adhesive shall be applied in a smooth even coating free of globs, gaps, or puddles. This application is to dry completely before commencing with the roof membrane installation. Once the substrate has dried, unroll sheets to provide for an overlap at the side seam of 3 inches.

With the sheets in place, turn back 1/2 a sheet at a time and coat the back side of the sheet with the specified adhesive at a rate of 1/2-gallon per every 100 square feet. Once tacky, roll the membrane onto the previously coated substrate surface being careful to avoid wrinkles and voids. Press the sheet into place to ensure positive surface contact using a minimum 100 lb. steel, membrane roller, rolling in two directions. Repeat the process with the opposite 1/2 of the sheet.



2. Fastening Around Perimeter and Penetrations: Around all perimeters, at the base of walls, curbs, platforms, drains, or any other roof penetrations, fasteners and seam plates shall be installed according to the manufacturer's instructions using the manufacturer's recommended torque-sensitive fastening tools with depth locators. Fasteners shall clamp the membrane tightly to the substrate.
3. The ridge area is defined as the high point in the roof area formed by two intersecting planes. When the sum of the slope is 4 inches vertical in, 12 inches horizontal (4:12) and greater, each side of the ridge shall be treated as a perimeter area.

### 3.04 HOT-AIR WELDING OF SEAM OVERLAPS

- A. All seams shall be hot-air welded. Seam overlaps should be 3 inches wide when automatic machine-welding and 4-inches wide when hand-welding, except for certain details.
- B. Welding equipment shall be provided by or approved by Manufacturer. All mechanics intending to use the equipment shall have successfully completed a training course provided by a Manufacturer's Technical Representative prior to welding.
- C. All membrane to be welded shall be clean and dry.
- D. Hand-welded seams shall be completed in two stages. Hot-air welding equipment shall be allowed to warm up for at least one minute prior to welding.
  1. The back edge of the seam shall be welded with a narrow but continuous weld to prevent loss of hot air during the final welding.
  2. The nozzle shall be inserted into the seam at a 45-degree angle to the edge of the membrane. Once the proper welding temperature has been reached and the membrane begins to "flow," the hand roller is positioned perpendicular to the nozzle and pressed lightly. For straight seams, the 1-1/2-inch wide nozzle is recommended for use. For corners and compound connections, the 3/4-inch wide nozzle shall be used.
- E. Machine Welding:
  1. Machine welded seams are achieved by the use of automatic welding equipment. When using this equipment, instructions shall be followed and local codes for electric supply, grounding and over current protection observed. Dedicated circuit house power or a dedicated portable generator is recommended. No other equipment shall be operated off the generator.

2. Metal tracks may be used over the deck membrane and under the machine welder to minimize or eliminate wrinkles.
- F. **Quality Control of Welded Seams:** The Contractor shall check all welded seams for continuity using a rounded screwdriver. Visible evidence that welding is proceeding correctly is smoke during the welding operation, shiny membrane surfaces, and an uninterrupted flow of dark grey material from the underside of the top membrane. On-site evaluation of welded seams shall be made daily by the Contractor to locations as directed by the Owner's representative or Manufacturer's representative. One-inch wide cross-section samples of welded seams shall be taken at least three times a day. Correct welds display failure from shearing of the membrane prior to separation of the weld. Each test cut shall be patched by the Contractor at no extra cost to the Owner.

### 3.05 MEMBRANE FLASHINGS

- A. All flashings shall be installed concurrently with the roof membrane as the job progresses. If any water is allowed to enter under the newly completed roofing, the affected area shall be removed and replaced at the Contractor's expense. Flashings shall be adhered to compatible, dry, smooth, and solvent-resistant surfaces.
- B. **VOC Compliant Adhesive for Membrane Flashings:**
1. Over the properly installed and prepared flashing substrate, adhesive shall be applied according to instructions found on the Product Data Sheet. The adhesive shall be applied in smooth, even coats with no inconsistencies. Only an area which can be completely covered in the same day's operations shall be flashed. The bonded sheet shall be pressed firmly in place with a hand roller.
  2. No adhesive shall be applied in seam areas that are to be welded. All panels of membrane shall be applied in the same manner, overlapping the edges of the panels as required by welding techniques.
- C. All flashings shall extend a minimum of 8 inches above roofing level unless otherwise accepted in writing by the roofing material manufacturer.
- D. All flashing membranes shall be consistently adhered to substrates. All interior and exterior corners and miters shall be cut, and hot air welded into place. No bitumen shall be in contact with the membrane.
- E. Membrane flashings shall be terminated according to recommended detail drawings.

- F. At parapet walls, the single-ply roof membrane shall be fully adhered to acceptable substrate using an approved VOC compliant adhesive. The membrane shall extend up vertical surfaces and terminate along the top of the parapet walls' horizontal plane. The wall flashing assembly shall be installed in accordance with the manufacturer's technical department for additional securement and assembly.
- G. At parapet walls over 30 inches, membrane flashings shall receive intermediate fastening in accordance with the material manufacturer's published installation criteria.

### **3.06 FLANGED PVC CLAD METAL FLASHINGS**

- A. All flashings shall be installed concurrently with the roof membrane as the job progresses. If any water enters under the newly completed roofing due to incomplete flashings, the affected area shall be removed and replaced at the Contractor's expense.
- B. PVC clad metal flashings shall be formed and installed per the detail drawings.
  - 1. All metal flashings shall be fastened into the wood substrate with two rows of post galvanized flat head annular ring nails, 4 inches on center staggered. Fasteners shall penetrate the wood nailer a minimum of 1-inch.
  - 2. Metal shall be installed to provide adequate resistance to bending and allow for normal thermal expansion and contraction.
- C. Adjacent sheets of clad shall be spaced 1/4-inch apart. The joint shall be covered with 2-inch wide aluminum tape. A minimum 4-inch wide strip of flashing membrane shall be hot-air welded over the joint.

### **3.07 TEMPORARY CUT-OFF**

- A. All flashings shall be installed concurrently with the roof membrane in order to maintain a watertight condition as the work progresses. All temporary waterstops shall be constructed to provide a 100% watertight seal. The stagger of the insulation joints shall be made even by installing partial panels of insulation. The new membrane shall be carried into the waterstop. The waterstop shall be sealed to the deck and/or substrate so that water will not be allowed to travel under the new roofing. The edge of the membrane shall be sealed in a continuous heavy application of sealant as described in Section 2.07. When work resumes, the contaminated membrane shall be cut out. All sealant, contaminated membrane, insulation fillers, etc. shall be removed from the work area and properly disposed of offsite. None of these materials shall be used in the new work.

- B. If inclement weather occurs while a temporary waterstop is in place, the Contractor shall provide the labor necessary to monitor the situation to maintain a watertight condition.
- C. If any water is allowed to enter under the newly-completed roofing, the affected area shall be removed and replaced at the Contractor's expense.

### **3.08 FINAL ROOF INSPECTION**

- A. The work shall be reviewed by the Owner's representative, Manufacturer's representative, and the Roofing Contractor. All defects noted and non-compliances with the Specifications or the recommendations of the Owner's representative shall be itemized in a Punchlist. These items must be corrected within 10 work days of issuance of Punchlist. The Roofing Contractor shall perform this work to the satisfaction of the Owner representative, and Manufacturer.

**END OF SECTION**

**BID PROPOSAL**

NAME OF BIDDER \_\_\_\_\_ DATE \_\_\_\_\_

TO: **Burbank Temporary Aid Center**  
Attention: Ms. Catherine Bourgeois

[cbourgeois@theBTAC.org](mailto:cbourgeois@theBTAC.org)

The undersigned, in compliance with your invitation for bids for the:

**ROOF REPLACEMENTS (SECTIONS C & D) &  
MAINTENACE & REPAIR ACTIONS (SECTIONS A & B)**

**FOR**

**BURBANK TEMPORARY AID CENTER  
1304 WEST BURBANK BOULEVARD  
BURBANK, CALIFORNIA 91506**

having examined the Drawings and Specifications and related documents and the site of the proposed work and being familiar with all of the conditions surrounding the construction of the proposed project, including the availability of labor, hereby propose to furnish all labor, material and supplies as required for the work in accordance with the Contract Documents as specified and within the time set forth and at the price stated below. This price is to cover all expenses incurred in performing the work required under the contract documents of which this proposal is a part:

I/We acknowledge the receipt of the following addenda:

# \_\_\_\_\_ Dated: \_\_\_\_\_ Received \_\_\_\_\_

# \_\_\_\_\_ Dated: \_\_\_\_\_ Received \_\_\_\_\_

Under the heading of base bid as described in this specification, the Undersigned proposes to furnish all labor and materials and assume all costs incurred to do the work of the contract including reroofing and all related work and subcontracts as located on the Owner's site, for the amounts listed as follows:

**BASE BID:**

**ROOF SECTIONS C & D (REPLACEMENTS):**

All Preparation Work to Roof Membrane and Flashing Assemblies:

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

Installation of the New Specified Fully Adhered, Fleece Backed, 80 mil Thick PVC Single-Ply Roof System and Related Flashings: \_\_\_\_\_

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

*Estimated Square Footage of Roof Area:* \_\_\_\_\_

TOTAL: \_\_\_\_\_ DOLLARS (\$\_\_\_\_\_)

**ROOF SECTIONS A & B (MAINTENANCE AND REPAIR ACTIONS):**

Completion of all Specified Maintenance and Repair Actions:

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

**BASE BID GRAND TOTAL:** \_\_\_\_\_

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

**UNIT PRICES:**

Provide a per unit cost for the replacement of deteriorated or otherwise damaged 1-inch x 6-inch x 10-foot diagonal wood plank decking to match existing.

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

I/We guarantee to complete the work within \_\_\_\_\_ working days should I/We be the successful bidder.

This bid shall be good for **60** days after bid opening.

LICENSE:

The undersigned has, or will have, all licenses required by law authorizing him to bid upon and to perform the Contract if awarded him.

Respectfully Submitted,

\_\_\_\_\_  
Contractor

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Address

\_\_\_\_\_  
City and State

\_\_\_\_\_  
Contractor's License Number

ATTACHMENT A  
STATEMENT OF COORDINATION

The Undersigned acknowledges that, in the process of preparing a bid for the referenced category of work, he has examined the Contract Drawings; read and understands the requirements of the General and Supplementary Conditions; Addenda, if any; technical sections of the Specifications describing work categories for which the Undersigned is directly responsible, and those related sections which include additional requirements for cooperation, coordination, and compliance.

The Undersigned acknowledges his obligation to identify below any errors, omissions, conflicts, code violations, and improper use of materials discovered in the Contract Documents that could interfere with the timely completion, or increase the cost, of the category of work for which the Undersigned is responsible.

Except as noted below, the Undersigned has no objection to, or reservation about, the materials to be furnished or the conditions under which they will be installed, and is satisfied that he can complete his contractual responsibilities in a workman-like manner without extensive modifications or additional expense.

EXCEPTIONS:

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Submitted by:

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Signed by:

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



ATTACHMENT B

SUBCONTRACTOR LISTING

The Undersigned, in preparation of the project bid, declares the intent to use the following subcontractors:

DEMOLITION:

Company Name: \_\_\_\_\_

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

License No.: \_\_\_\_\_

SHEET METAL:

Company Name: \_\_\_\_\_

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

License No.: \_\_\_\_\_

MECHANICAL:

Company Name: \_\_\_\_\_

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

License No.: \_\_\_\_\_

WATERPROOFING:

Company Name: \_\_\_\_\_

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

License No.: \_\_\_\_\_

OTHERS:

Type of Work: \_\_\_\_\_

Company Name: \_\_\_\_\_

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

License No.: \_\_\_\_\_

Type of Work: \_\_\_\_\_

Company Name: \_\_\_\_\_

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

License No.: \_\_\_\_\_

## GOVERNING TERMS & CONDITIONS OF BIDDER'S QUOTATION

1. Verification of Existing Conditions:
  - a. Before submitting his bid, the Contractor shall visit the project site and verify conditions, locations and dimensions of all existing equipment, the structure, and the site conditions that pertain to this installation.
  - b. The details shown and the information provided are not represented or guaranteed by Owner or Consultant as being accurate as to the actual "as built" and present conditions. Bidding Contractor shall verify all conditions at the site and perform all work to complete the project under this contract, regardless of the variations that may be found, without additional cost to the Owner.
  - c. Bidders visiting the building for estimating purposes while building is occupied shall abide by Owner's rules and regulations.
  - d. Failure to examine the project building and the site and to become familiar with the existing conditions shall not constitute cause for complaint or claim for extra payment. Contractor agrees to accept project site as it exists.
2. Bidder's quotation shall be submitted subject to the attachments, terms and conditions identified on Owner's Request for Quotation.
3. The following definitions shall apply:

The term "Contractor" refers to the "Successful Bidder".
4. Your Quotation shall conform in all respects with applicable drawings, specifications and conditions referred to in the Request for Quotation. You may offer an alternate Quotation, providing all deviations or exceptions are listed separately and are clearly defined. Your standard Terms and Conditions of Sale will not be considered. Terms, conditions and exceptions in your Quotation which depart from the terms referred to in the Request are to be deemed rejected by Owner except to the extent they may be expressly set forth in a formal written contract executed with Contractor.
5. Any questions relative to the bid specifications, technical or otherwise, must be addressed to the Construction Manager and Consultant whose names appear in the Request for Quotation.
6. All Quotations must be received on or before the due date or they will be rejected. (If you do not wish to bid, please advise us promptly.) Facsimile bids will be accepted if followed within one working day by hard copy in U.S. Mail.

**NOTE:** Bids must be submitted to the party identified in the Request for Quotation and on the Bid Proposal form. Submittal to others will serve as cause for disqualification.

7. Owner reserves the right to accept other than the lowest Quotation and to accept or reject any Quotation in whole or in part, or to reject all Quotations with or without notice or reasons, and if no Quotation is accepted, to abandon the work or to have the work performed in such other manner as Owner may elect.
8. All Quotations are considered privileged information. All bids will be opened in private by Owner.

END OF SECTION

**MINIMUM INSURANCE REQUIREMENTS**  
**FOR OUTSIDE CONTRACTORS**

A.	<b>Worker's Compensation</b>	Statutory
B.	Comprehensive Commercial Liability Bodily Injury /Property Damage, each occurrence, Personal Injury, Blanket Contractual and Independent Contractor	\$1,000,000 Single Limit Bodily Injury and Property Damage Liability
	<b>General Aggregate</b>	\$2,000,000
	<b>Products - Completed Operations Aggregate</b>	\$2,000,000
C.	Comprehensive Automobile Liability Bodily Injury and Property Damage Including Owned, Non-owned and Hired Vehicles	\$1,000,000 Combined Single Limit Bodily Injury and Property Damage Liability

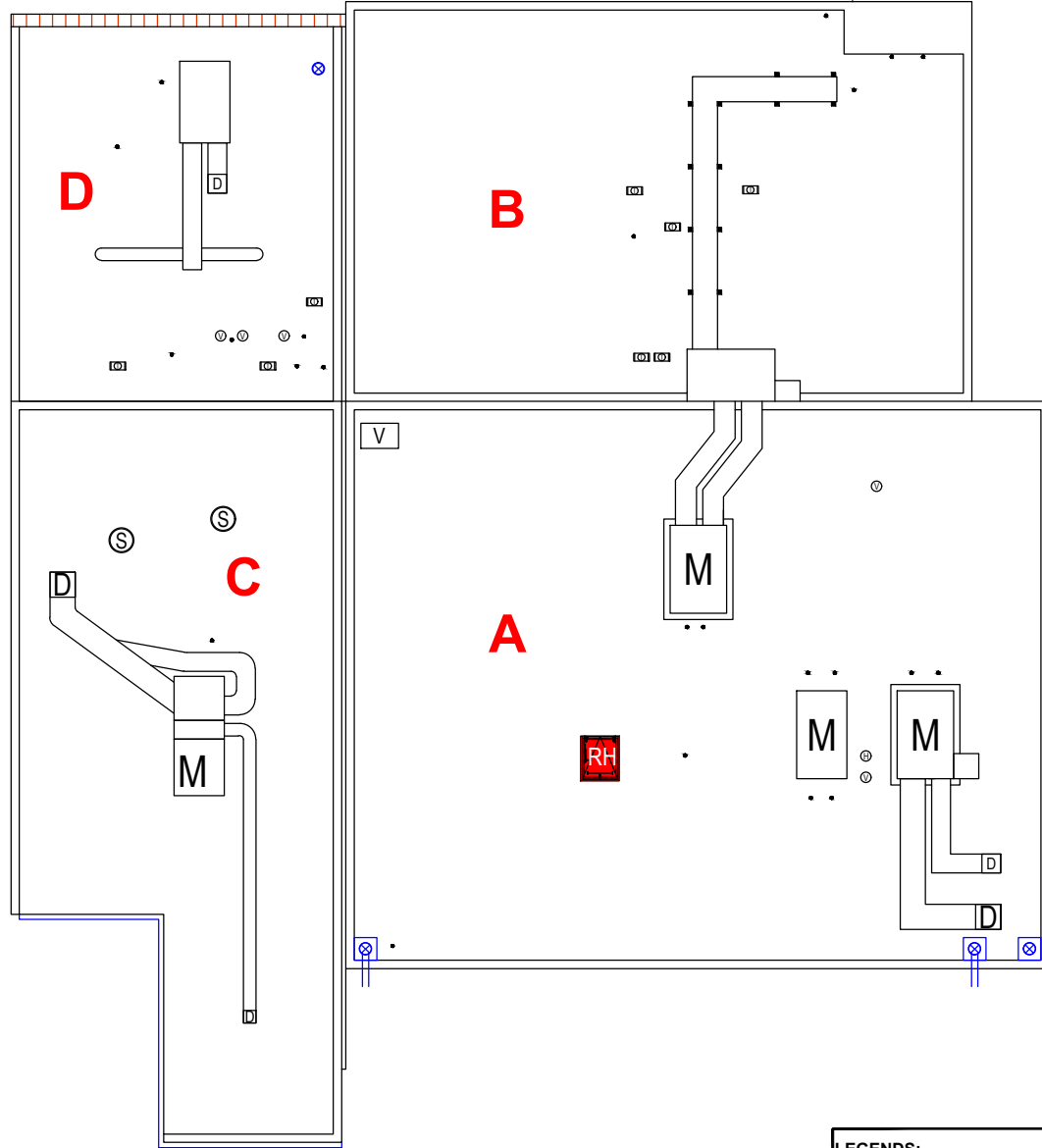
1. All such insurance required above shall be provided from companies with an A-VIII rating or better in Best Guide and on forms acceptable to Owner.
2. With respect to Liability coverage, Owner, and all related interests, including Independent Roofing Consultants, are to be named as Additional Insureds to policy and on the Certificate of Insurance.
3. Certificate of Insurance is to be furnished evidencing insurance requirements and stating not less than thirty (30) days notification shall be afforded Owner in the event of cancellation or material change in policies. (Delete the following from Accord forms: ". . . endeavor to . . ." and ". . . but failure to mail such notice shall impose no obligation or liability upon the company . . ." in the section entitled "CANCELLATION").
4. Certificate shall state "Such policies are primary, and any insurance carried by Owner are secondary and noncontributing with such policies."
5. Mail certificate to:
 

BURBANK TEMPORARY AID CENTER  
Attention: Ms. Catherine Bourgeois  
1304 West Burbank Boulevard  
Burbank, CA 91506
6. Contractor shall carry the above indicated at his own expense.

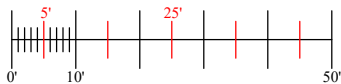
END OF SECTION

**NOTES:**

A. CONTRACTOR TO FIELD VERIFY SQUARE FOOTAGE TOTALS. LISTED TOTALS ARE PROVIDED IN "PLAN VIEW".



# ROOF PLAN - Roof Replacement



LEGENDS:		ROOF STATISTIC:	
M	MECH. UNIT/DUCT	Year Installation:	?
RH	ROOF HATCH/AC	SECTION A:	2,396 SQ. FT.
S	EXHAUST FAN/VENT	SECTION B:	1,420 SQ. FT.
D	DRAIN/SCUPPER	SECTION C:	1,240 SQ. FT.
S	T-TOP/VENT/PIPE	SECTION D:	746 SQ. FT.
S	SKYLIGHT		

## BURBANK TEMPORARY AID CENTER

1304 WEST BURBANK BLVD. - BURBANK, CA 91506

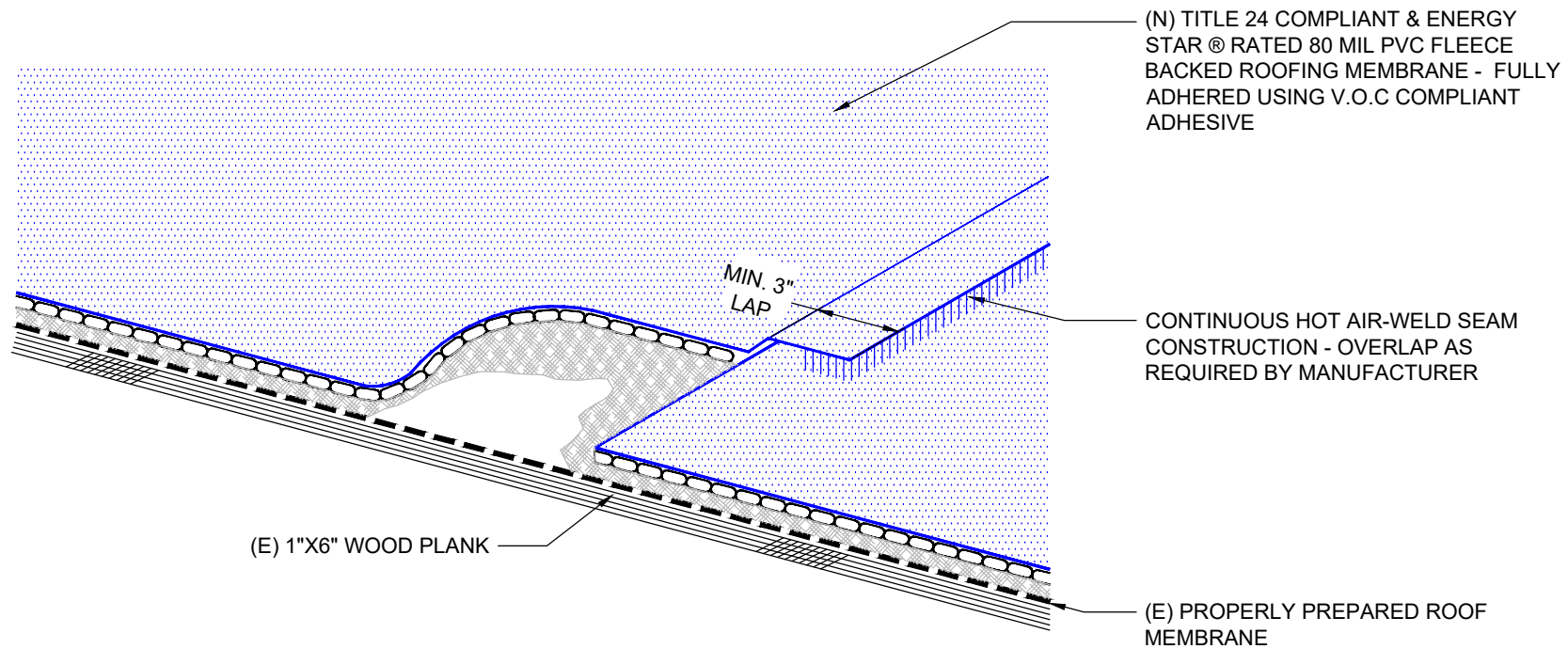
DWG.NO. 1023RP01

LAST REV: 09/30/23

DB: BN RB: BN

**NOTE:**

**A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PROVIDED ON CORRESPONDING DETAILS.**



PROJECT NAME:  
**BURBANK  
TEMPORARY AID  
CENTER**  
ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:

**TYPICAL ROOF CROSS  
SECTION**

IRC PROJECT NO: 00000.00

DATE: 09/30/23

DRAWN BY: BN

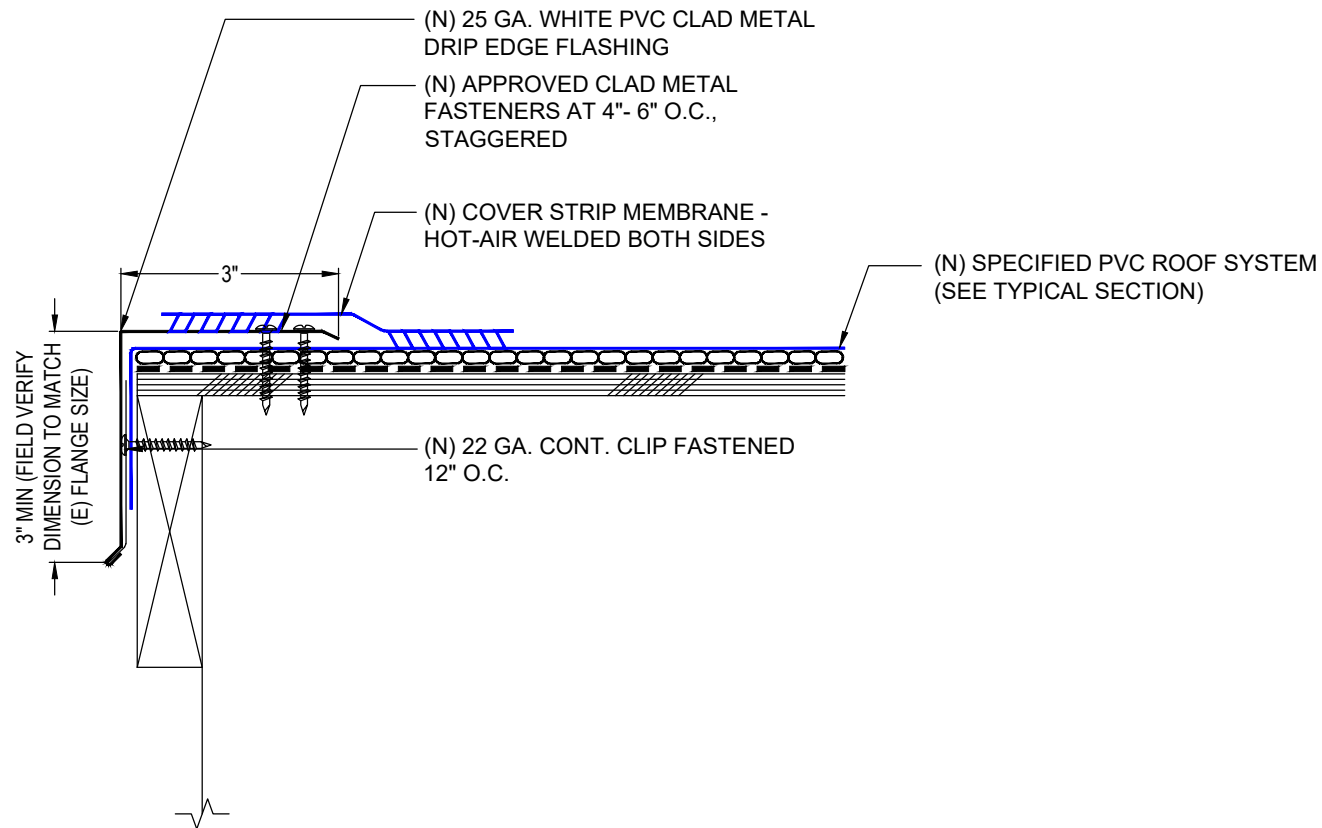
CHECKED BY: GE

CAD DRAWING NO: 1024TS01

SCALE: N.T.S

**NOTE:**

A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.



PROJECT NAME:

**BURBANK  
TEMPORARY AID  
CENTER**

ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:

**(N) CLAD METAL EDGE  
FLASHING**

IRC PROJECT NO: 00000.00

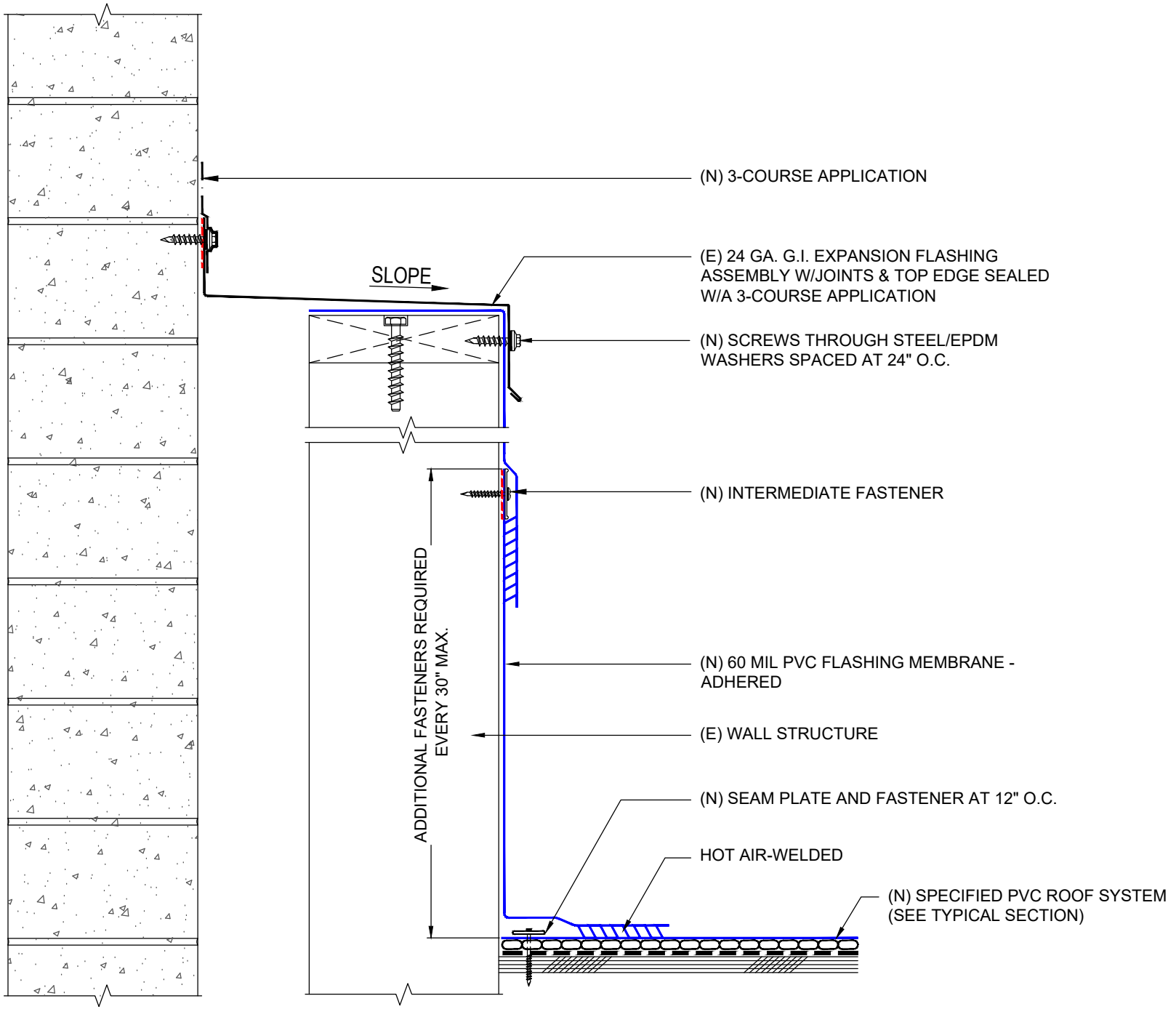
DATE: 09/30/23

DRAWN BY: BN

CHECKED BY: GE

CAD DRAWING NO: 1024EF01

SCALE: N.T.S



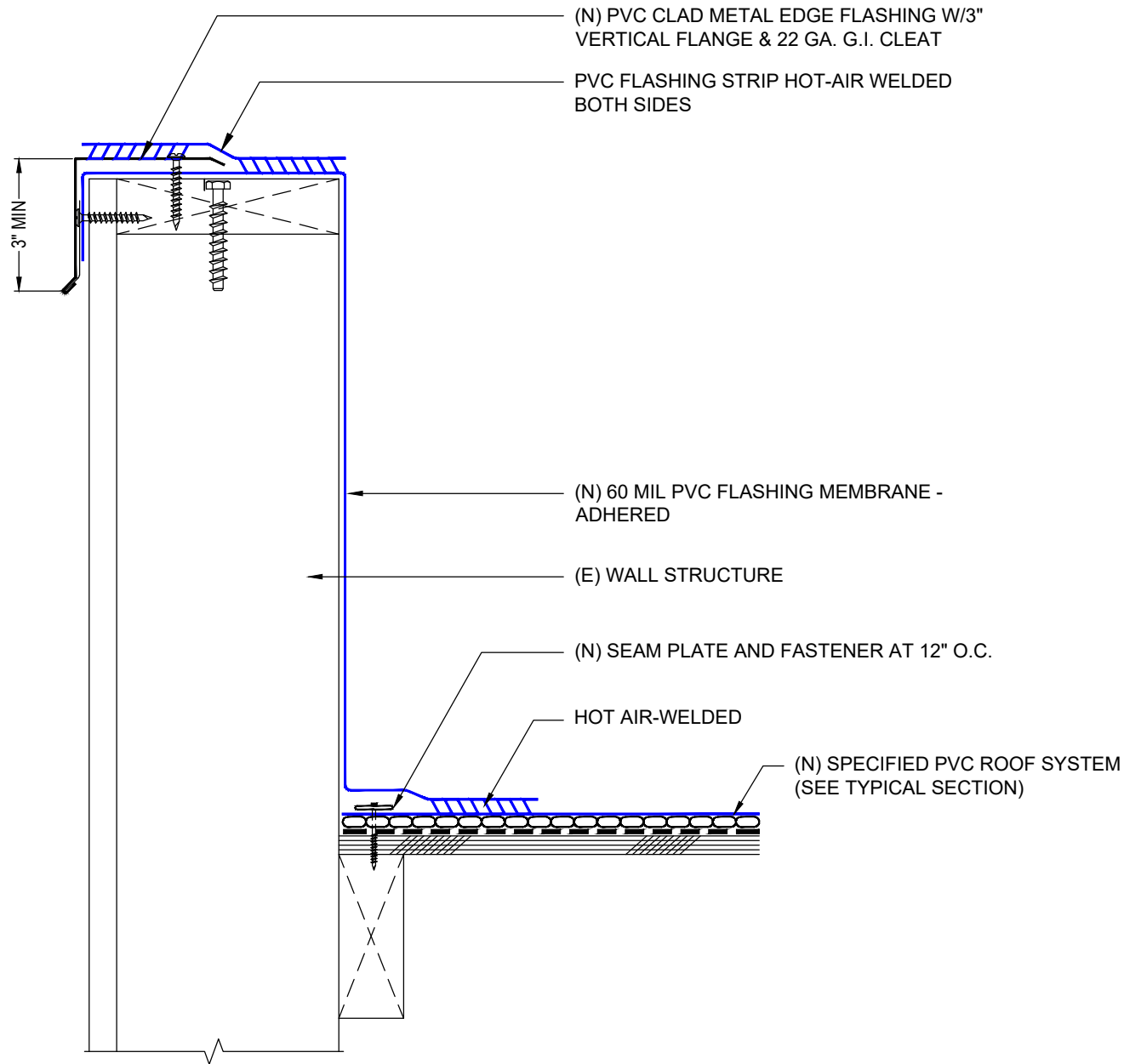
PROJECT NAME:  
**BURBANK  
 TEMPORARY AID  
 CENTER**  
 ROOF SECTIONS C & D  
 1304 W. BURBANK BLVD.  
 BURBANK, CA 91506

DETAIL DESCRIPTION:  
**MEMBRANE FLASHING  
 @ PERIMETER WALL  
 W/EXPANSION CAP**

IRC PROJECT NO: 00000.00  
 DATE: 09/30/23  
 DRAWN BY: BN  
 CHECKED BY: GE  
 CAD DRAWING NO: 1024BF01  
 SCALE: N.T.S



(N) 3-COURSE APPLICATION



PROJECT NAME:  
**BURBANK  
TEMPORARY AID  
CENTER**  
ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:  
**CLAD METAL EDGE  
FLASHING @ WALL  
W/NO COPING**

IRC PROJECT NO: 00000.00

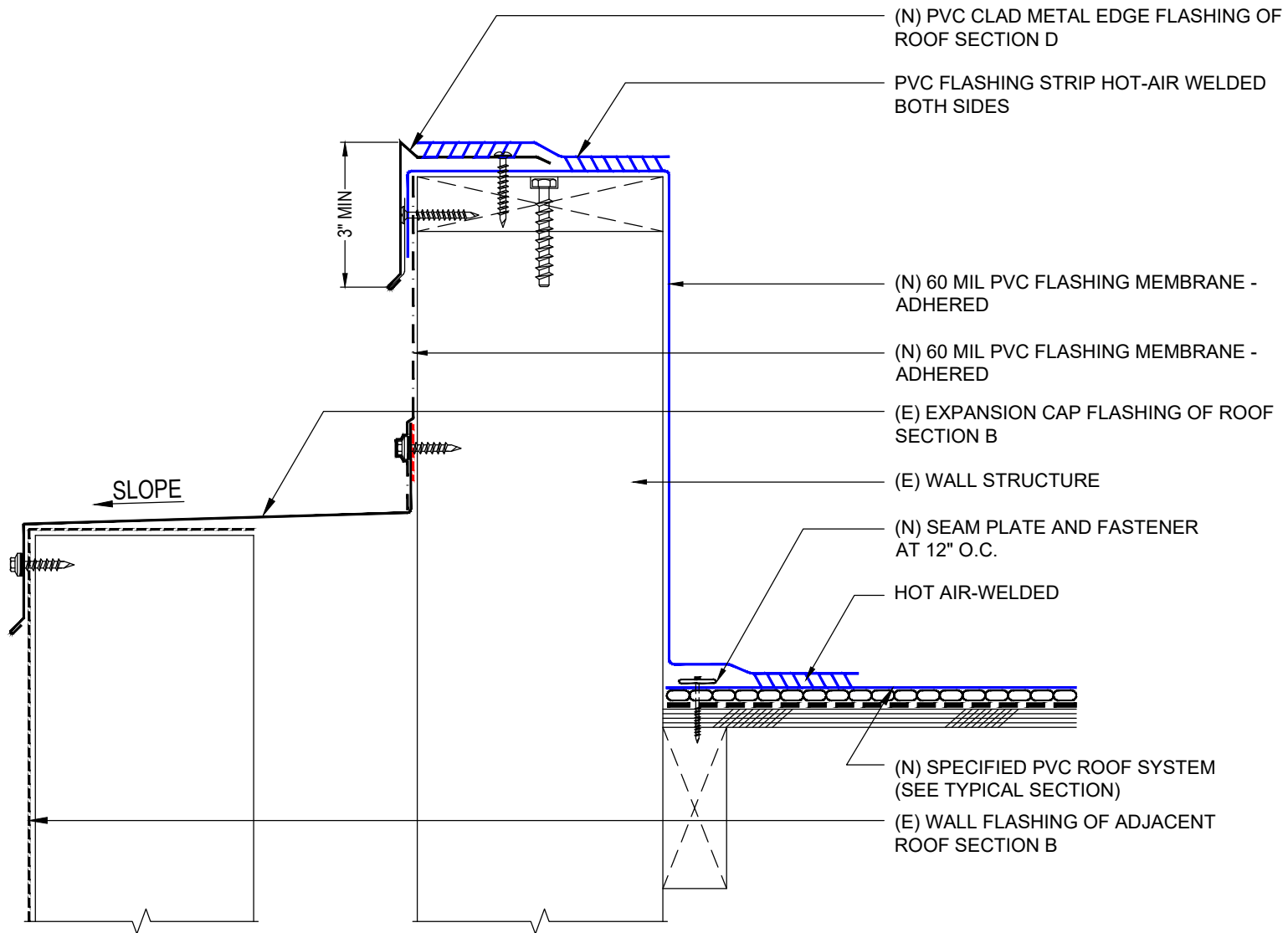
DATE: 09/30/23

DRAWN BY: BN

CHECKED BY: GE

CAD DRAWING NO: 1024BF02

SCALE: N.T.S



(N) PVC CLAD METAL EDGE FLASHING OF ROOF SECTION D

PVC FLASHING STRIP HOT-AIR WELDED BOTH SIDES

3" MIN

(N) 60 MIL PVC FLASHING MEMBRANE - ADHERED

(N) 60 MIL PVC FLASHING MEMBRANE - ADHERED

(E) EXPANSION CAP FLASHING OF ROOF SECTION B

(E) WALL STRUCTURE

(N) SEAM PLATE AND FASTENER AT 12" O.C.

HOT AIR-WELDED

(N) SPECIFIED PVC ROOF SYSTEM (SEE TYPICAL SECTION)

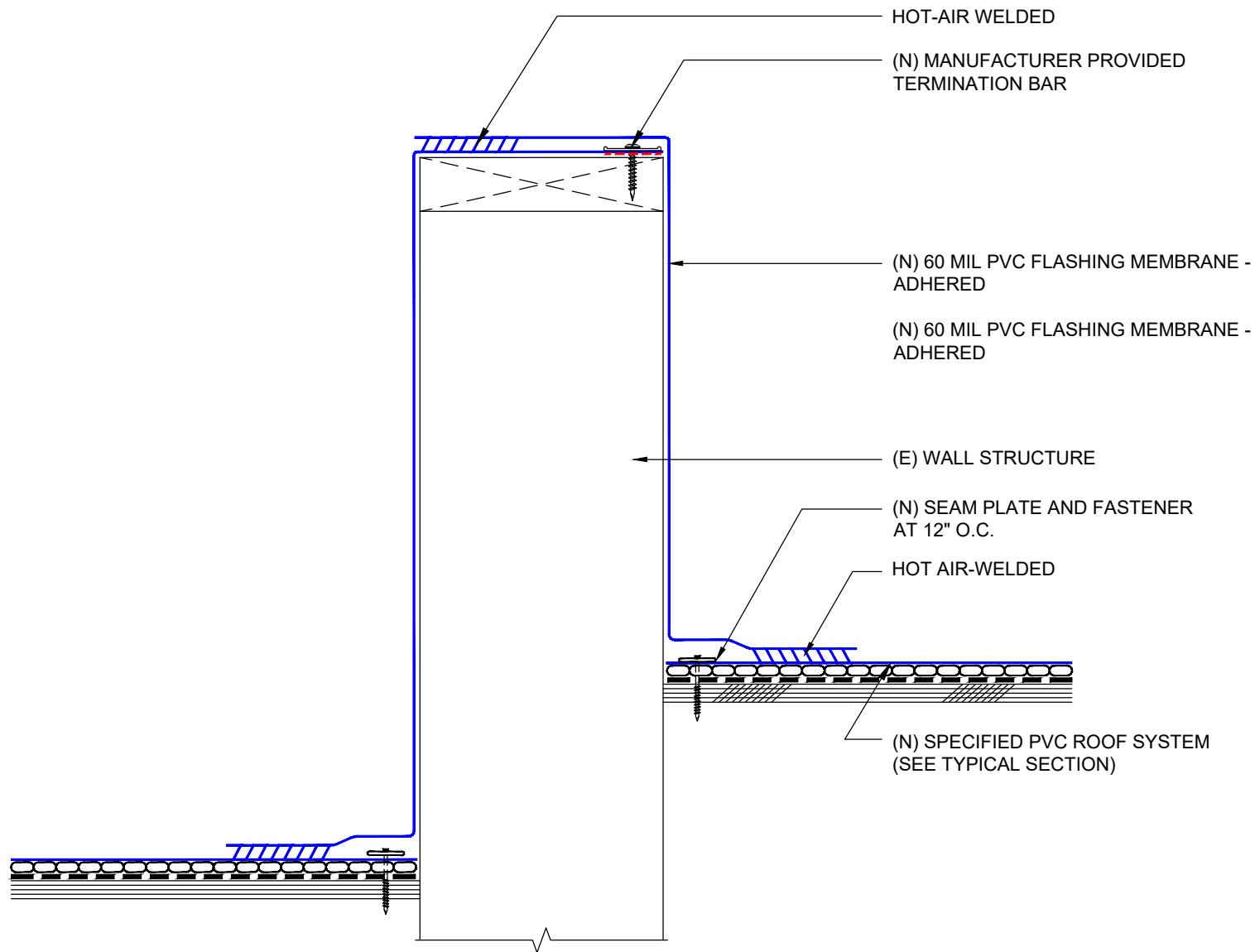
(E) WALL FLASHING OF ADJACENT ROOF SECTION B

SLOPE

PROJECT NAME:  
**BURBANK  
 TEMPORARY AID  
 CENTER**  
 ROOF SECTIONS C & D  
 1304 W. BURBANK BLVD.  
 BURBANK, CA 91506

DETAIL DESCRIPTION:  
**TREATMENT OF  
 EXPOSED PORTION OF  
 DIVIDING WALL**

IRC PROJECT NO: 00000.00  
 DATE: 09/30/23  
 DRAWN BY: BN  
 CHECKED BY: GE  
 CAD DRAWING NO: 1024BF03  
 SCALE: N.T.S



PROJECT NAME:  
**BURBANK  
 TEMPORARY AID  
 CENTER**  
 ROOF SECTIONS C & D  
 1304 W. BURBANK BLVD.  
 BURBANK, CA 91506

DETAIL DESCRIPTION:  
**MEMBRANE FLASHING  
 @ TWO-SIDED CURB  
 WALL**

IRC PROJECT NO: 00000.00

DATE: 09/30/23

DRAWN BY: BN

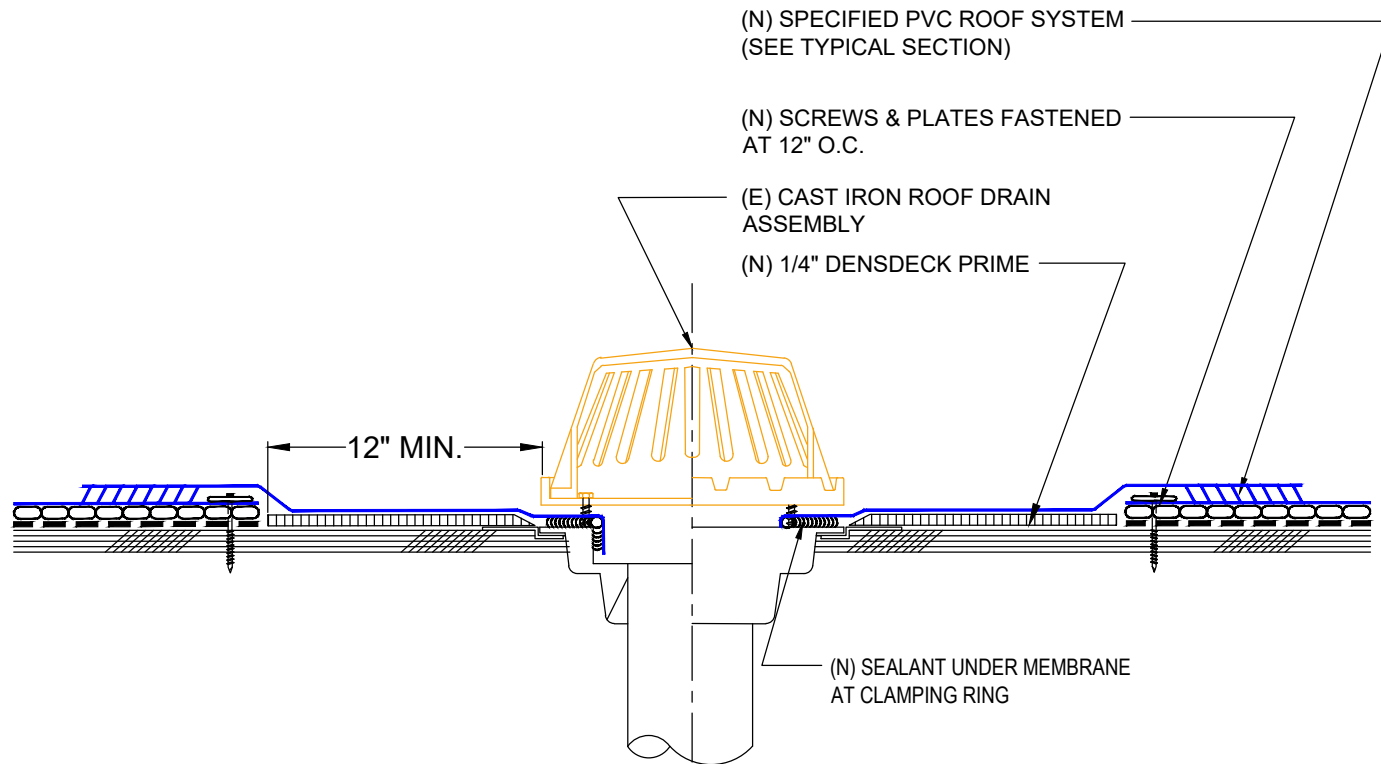
CHECKED BY: GE

CAD DRAWING NO: 1024BF04

SCALE: N.T.S

**NOTES:**

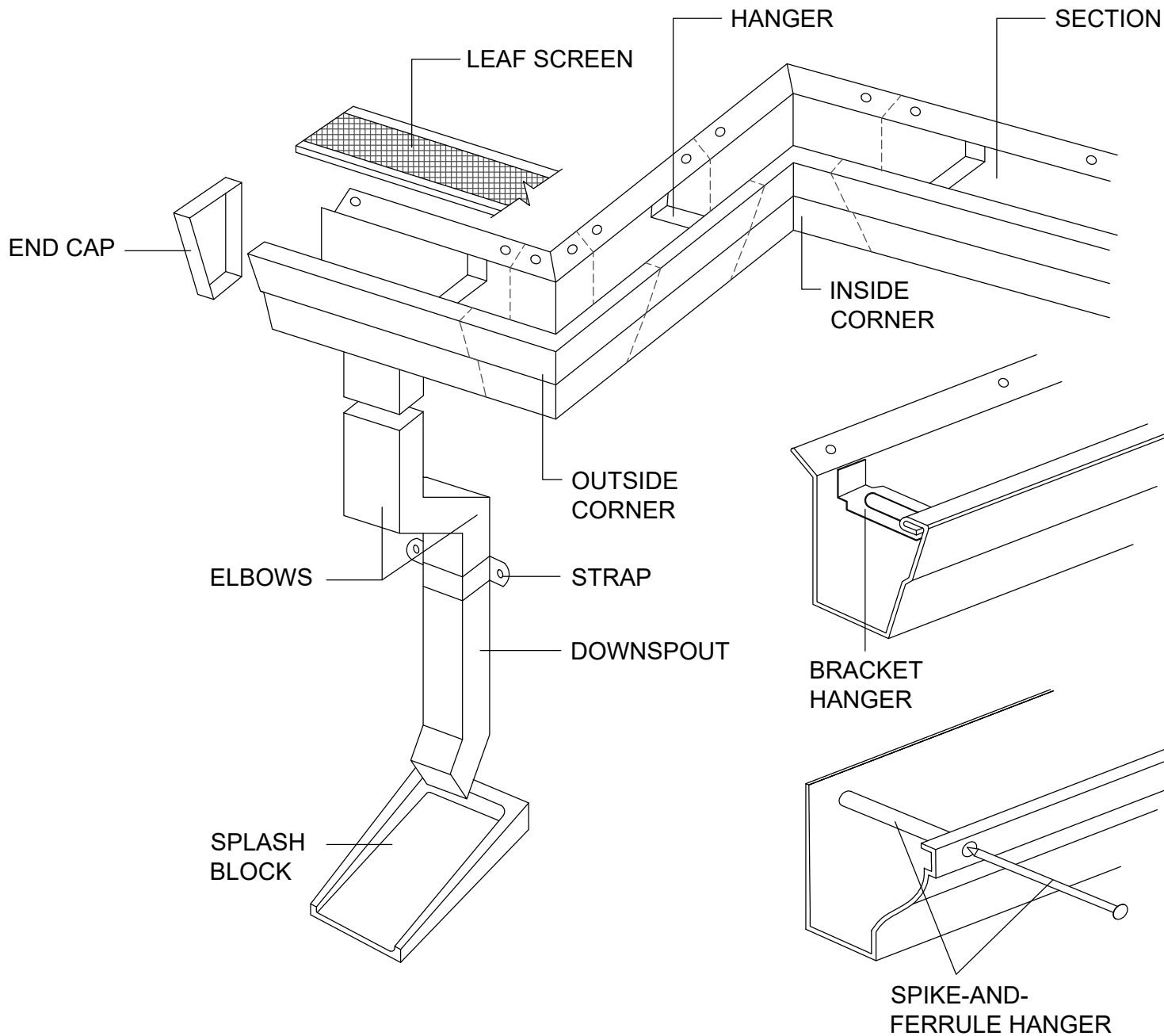
- A. RESTORE EXISTING CAST IRON ROOF DRAIN AND NEW SCREEN DOME MESH WITH RUST INHIBITIVE PRIMER AND 2 COATS OF EXTERIOR GRADE SAFETY ORANGE ENAMEL PAINT.
- B. INSPECT & REPLACE ALL BROKEN/MISSING PARTS INCLUDING DOMES, CLAMPING RINGS & BOLTS (WITH WASHERS).
- D. INSPECT AND CLEAN OUT FIRST 10 LINEAL FEET EACH DRAIN LINE TO ENSURE PROPER UNINTERRUPTED FLOW TO DRAIN IS OCCURRING
- E. POST COMPLETION OF THE NEW ROOFING SYSTEM INSTALLATION, CONTRACTOR SHALL INSPECT AND TEST ALL ROOF DRAINS TO ASSURE THAT NO CLOGGING OF THE DRAINAGE SYSTEM IS PRESENT. THE ROOF DRAIN LEADER SHOULD BE IN SUCH CONDITION THAT THE FULL DIAMETER OF THE DRAIN LEADER IS CLEAR.



PROJECT NAME:  
**BURBANK  
TEMPORARY AID  
CENTER**  
ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:  
**MEMBRANE FLASHING  
@ TWO-SIDED CURB  
WALL**

IRC PROJECT NO: 00000.00  
DATE: 09/30/23  
DRAWN BY: BN  
CHECKED BY: GE  
CAD DRAWING NO: 1024RD01  
SCALE: N.T.S



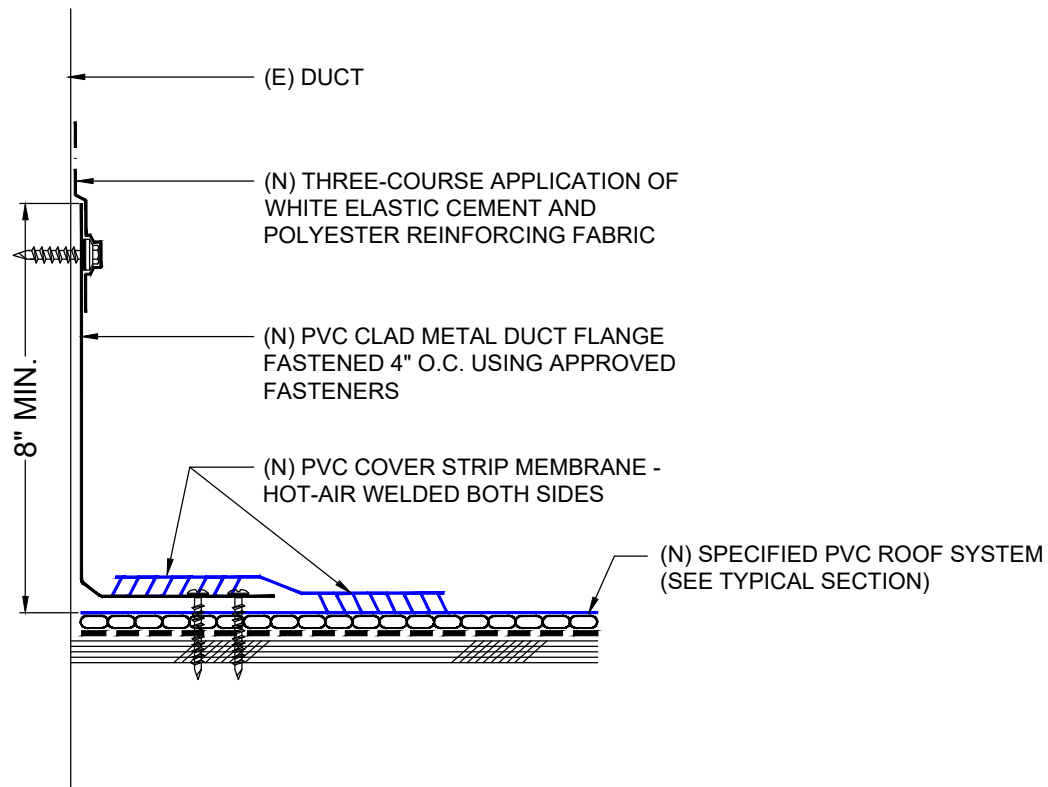
PROJECT NAME:  
**BURBANK  
 TEMPORARY AID  
 CENTER**  
 ROOF SECTIONS C & D  
 1304 W. BURBANK BLVD.  
 BURBANK, CA 91506

DETAIL DESCRIPTION:  
**(N) SEAMLESS STEEL  
 RAIN GUTTER  
 FLASHING &  
 DOWNSPOUT**

IRC PROJECT NO:	00000.00
DATE:	09/30/23
DRAWN BY:	BN
CHECKED BY:	GE
CAD DRAWING NO:	1024RG01
SCALE:	N.T.S

**NOTE:**

A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.



PROJECT NAME:  
**BURBANK  
TEMPORARY AID  
CENTER**  
ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:

**SQUARE  
SELF-FLASHING DUCT**

IRC PROJECT NO: 00000.00

DATE: 09/30/23

DRAWN BY: BN

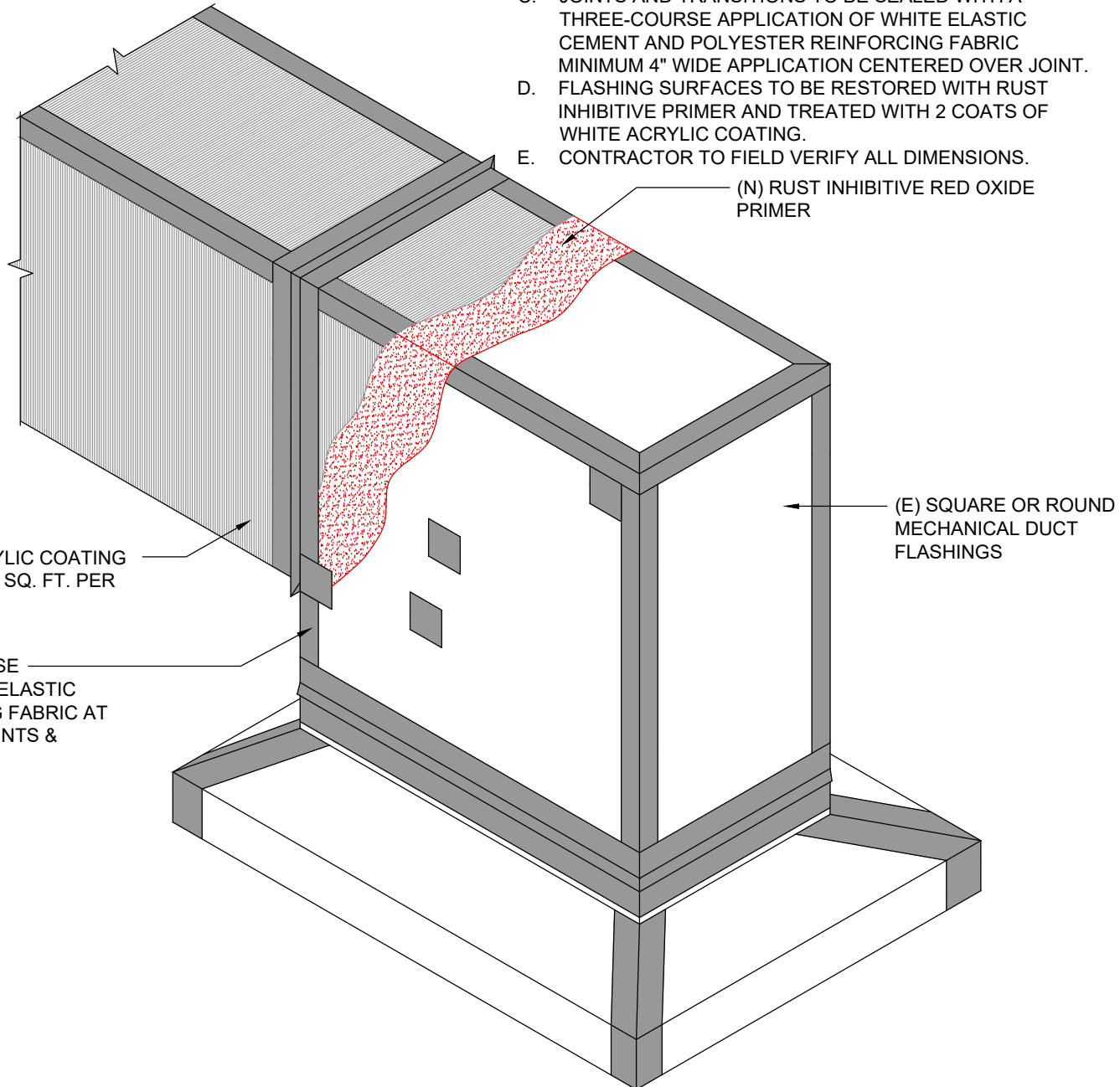
CHECKED BY: GE

CAD DRAWING NO: 1024DF01

SCALE: N.T.S

**NOTES:**

- A. ABANDONED FASTENER HOLES AND TESTING PORTS ARE TO BE RESEALED AS PART OF THIS WORK.
- B. ALL LOOSE AND DETERIORATE SEALANT MATERIALS TO BE REMOVE AND PROPERLY DISPOSED OF.
- C. JOINTS AND TRANSITIONS TO BE SEALED WITH A THREE-COURSE APPLICATION OF WHITE ELASTIC CEMENT AND POLYESTER REINFORCING FABRIC MINIMUM 4" WIDE APPLICATION CENTERED OVER JOINT.
- D. FLASHING SURFACES TO BE RESTORED WITH RUST INHIBITIVE PRIMER AND TREATED WITH 2 COATS OF WHITE ACRYLIC COATING.
- E. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.



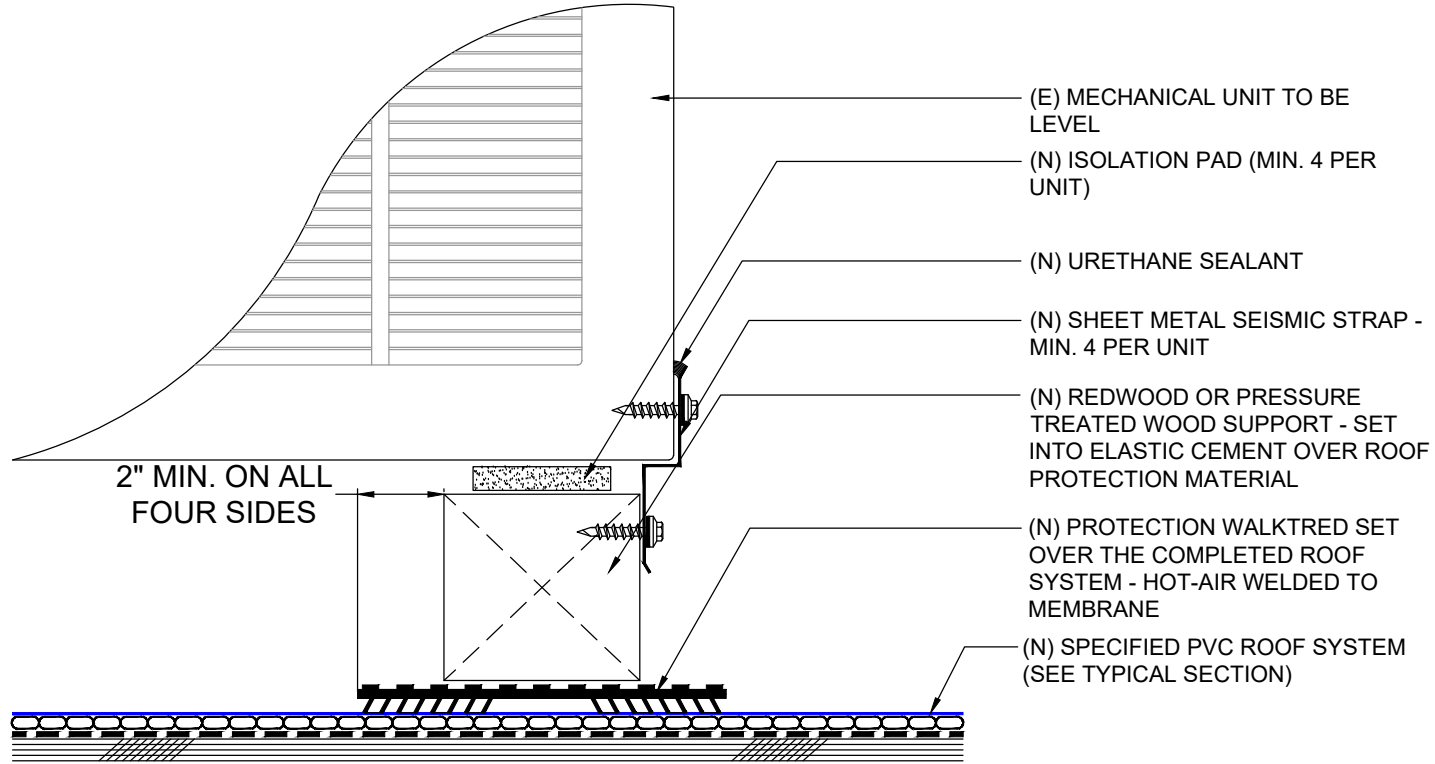
PROJECT NAME:  
**BURBANK  
TEMPORARY AID  
CENTER**  
ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:  
**TREATMENT OF (E)  
MECHANICAL DUCT  
FLASHING JOINT**

IRC PROJECT NO:	00000.00
DATE:	09/30/23
DRAWN BY:	BN
CHECKED BY:	GE
CAD DRAWING NO:	1024DF02
SCALE:	N.T.S

**NOTE:**

- A. A NEW SLEEPER SUPPORTS ARE TO SPAN TO STRUCTURAL SUPPORTS AND ARE TO BE PLACED SO NOT TO OBSTRUCT WATERFLOW TO DRAIN.

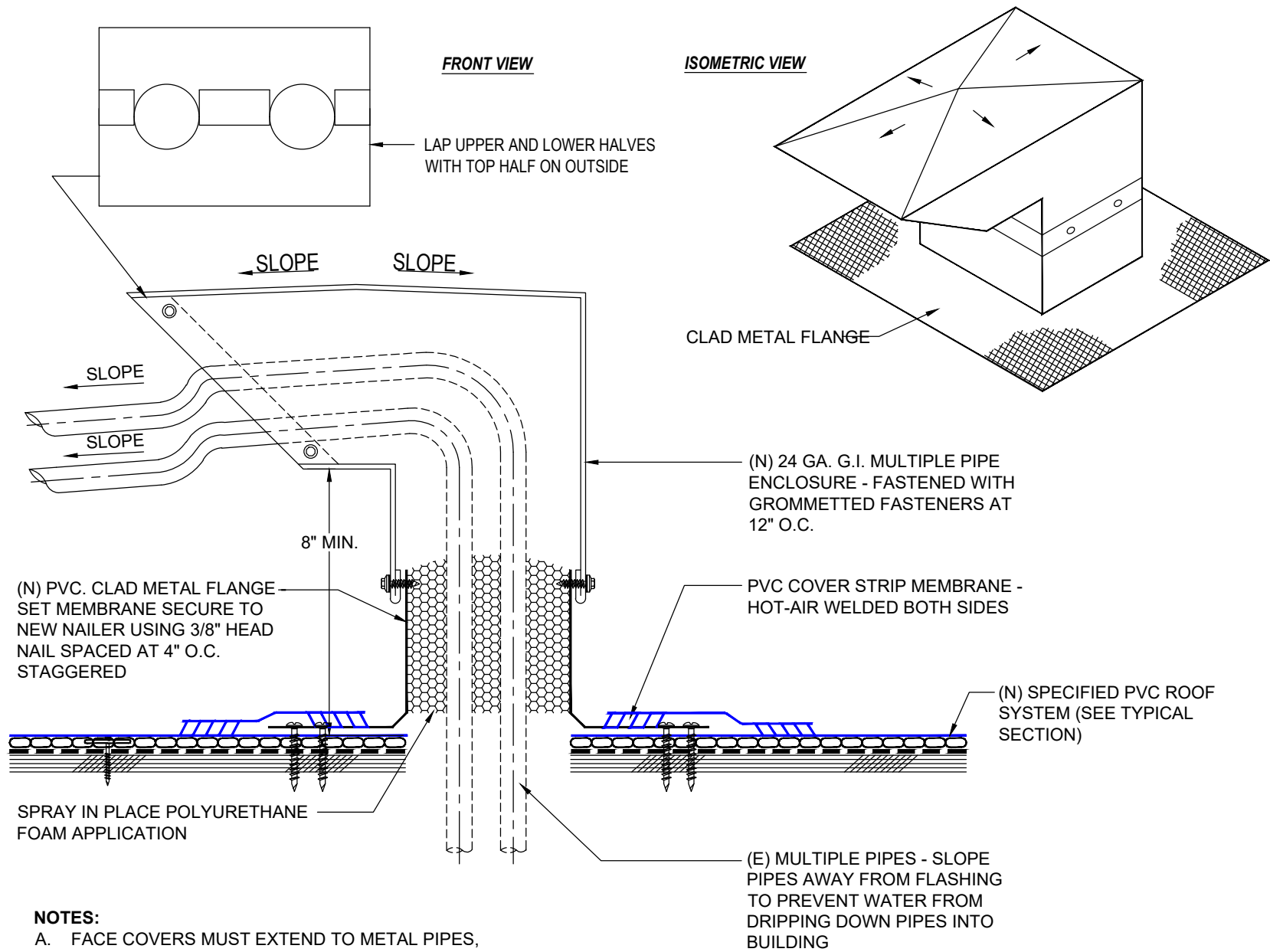


PROJECT NAME:  
**BURBANK  
 TEMPORARY AID  
 CENTER**  
 ROOF SECTIONS C & D  
 1304 W. BURBANK BLVD.  
 BURBANK, CA 91506

DETAIL DESCRIPTION:  
**(N) EXPOSED SLEEPER  
 SUPPORT @  
 MECHANICAL UNIT**

IRC PROJECT NO: 00000.00  
 DATE: 09/30/23  
 DRAWN BY: BN  
 CHECKED BY: GE  
 CAD DRAWING NO: 1024US01  
 SCALE: N.T.S





**FRONT VIEW**

**ISOMETRIC VIEW**

LAP UPPER AND LOWER HALVES WITH TOP HALF ON OUTSIDE

SLOPE SLOPE

CLAD METAL FLANGE

(N) 24 GA. G.I. MULTIPLE PIPE ENCLOSURE - FASTENED WITH GROMMETTED FASTENERS AT 12" O.C.

PVC COVER STRIP MEMBRANE - HOT-AIR WELDED BOTH SIDES

(N) PVC. CLAD METAL FLANGE SET MEMBRANE SECURE TO NEW NAILER USING 3/8" HEAD NAIL SPACED AT 4" O.C. STAGGERED

(N) SPECIFIED PVC ROOF SYSTEM (SEE TYPICAL SECTION)

8" MIN.

SPRAY IN PLACE POLYURETHANE FOAM APPLICATION

(E) MULTIPLE PIPES - SLOPE PIPES AWAY FROM FLASHING TO PREVENT WATER FROM DRIPPING DOWN PIPES INTO BUILDING

- NOTES:**
- A. FACE COVERS MUST EXTEND TO METAL PIPES, NOT INSULATION.
  - B. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

PROJECT NAME:  
**BURBANK  
 TEMPORARY AID  
 CENTER**  
 ROOF SECTIONS C & D  
 1304 W. BURBANK BLVD.  
 BURBANK, CA 91506

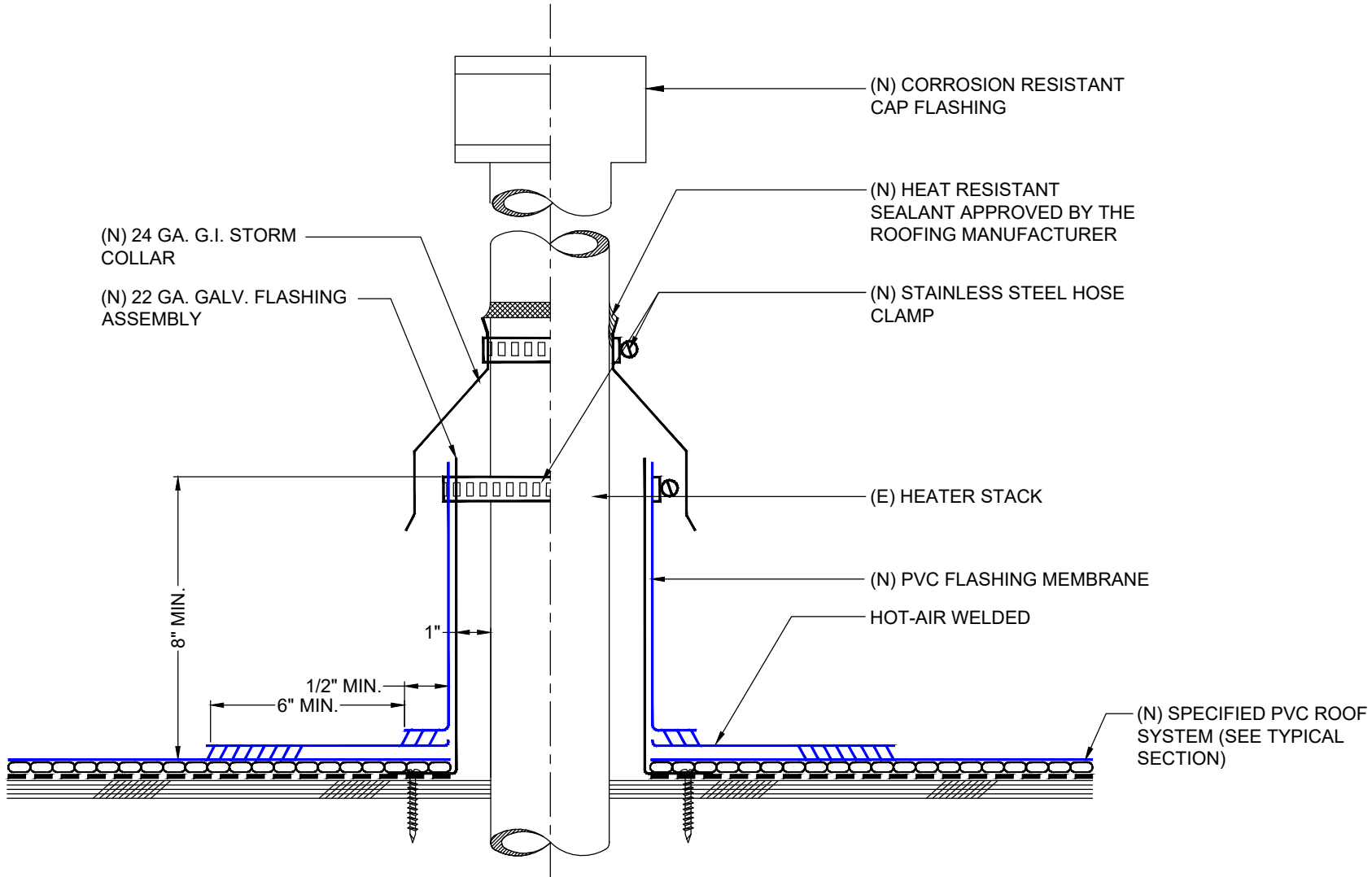
DETAIL DESCRIPTION:

**MULTIPLE PIPE ENCLOSURE**

IRC PROJECT NO:	00000.00
DATE:	09/30/23
DRAWN BY:	BN
CHECKED BY:	GE
CAD DRAWING NO:	1024MP01
SCALE:	N.T.S

**NOTE:**

A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.



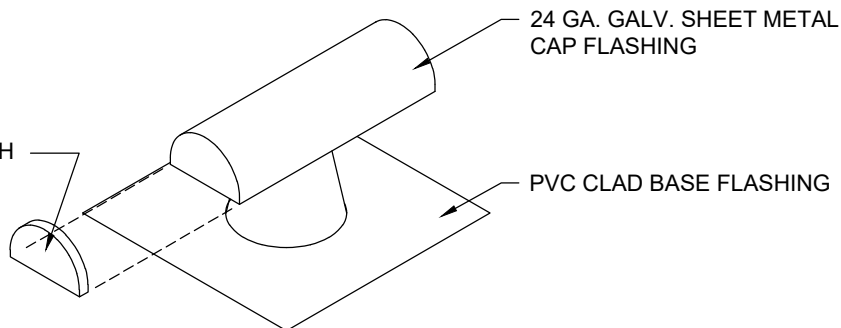
PROJECT NAME:  
**BURBANK  
 TEMPORARY AID  
 CENTER**  
 ROOF SECTIONS C & D  
 1304 W. BURBANK BLVD.  
 BURBANK, CA 91506

DETAIL DESCRIPTION:

**HEAT VENT / METAL  
 PIPE**

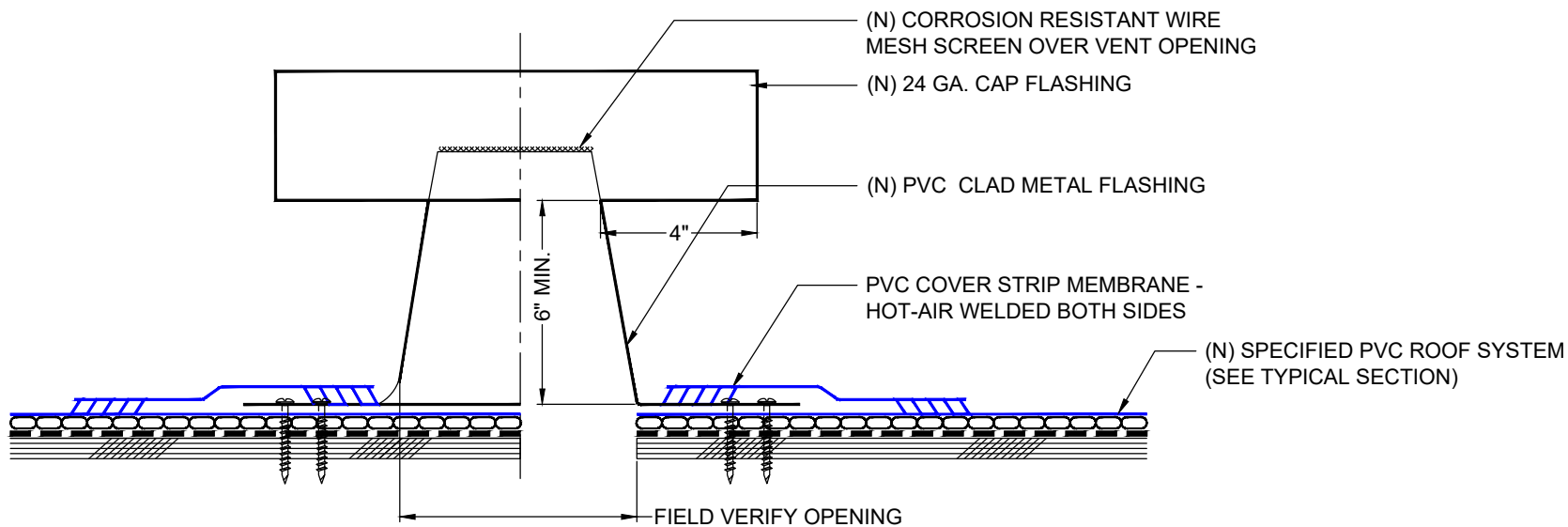
IRC PROJECT NO: 00000.00  
 DATE: 09/30/23  
 DRAWN BY: BN  
 CHECKED BY: GE  
 CAD DRAWING NO: 1024HV01  
 SCALE: N.T.S

SOLDERED END CAP BOTH SIDES



24 GA. GALV. SHEET METAL CAP FLASHING

PVC CLAD BASE FLASHING



(N) CORROSION RESISTANT WIRE MESH SCREEN OVER VENT OPENING

(N) 24 GA. CAP FLASHING

(N) PVC CLAD METAL FLASHING

PVC COVER STRIP MEMBRANE - HOT-AIR WELDED BOTH SIDES

(N) SPECIFIED PVC ROOF SYSTEM (SEE TYPICAL SECTION)

FIELD VERIFY OPENING

PROJECT NAME:

**BURBANK  
TEMPORARY AID  
CENTER**

ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:

**T-TOP/FLANGED VENT  
FLASHING**

IRC PROJECT NO: 00000.00

DATE: 09/30/23

DRAWN BY: BN

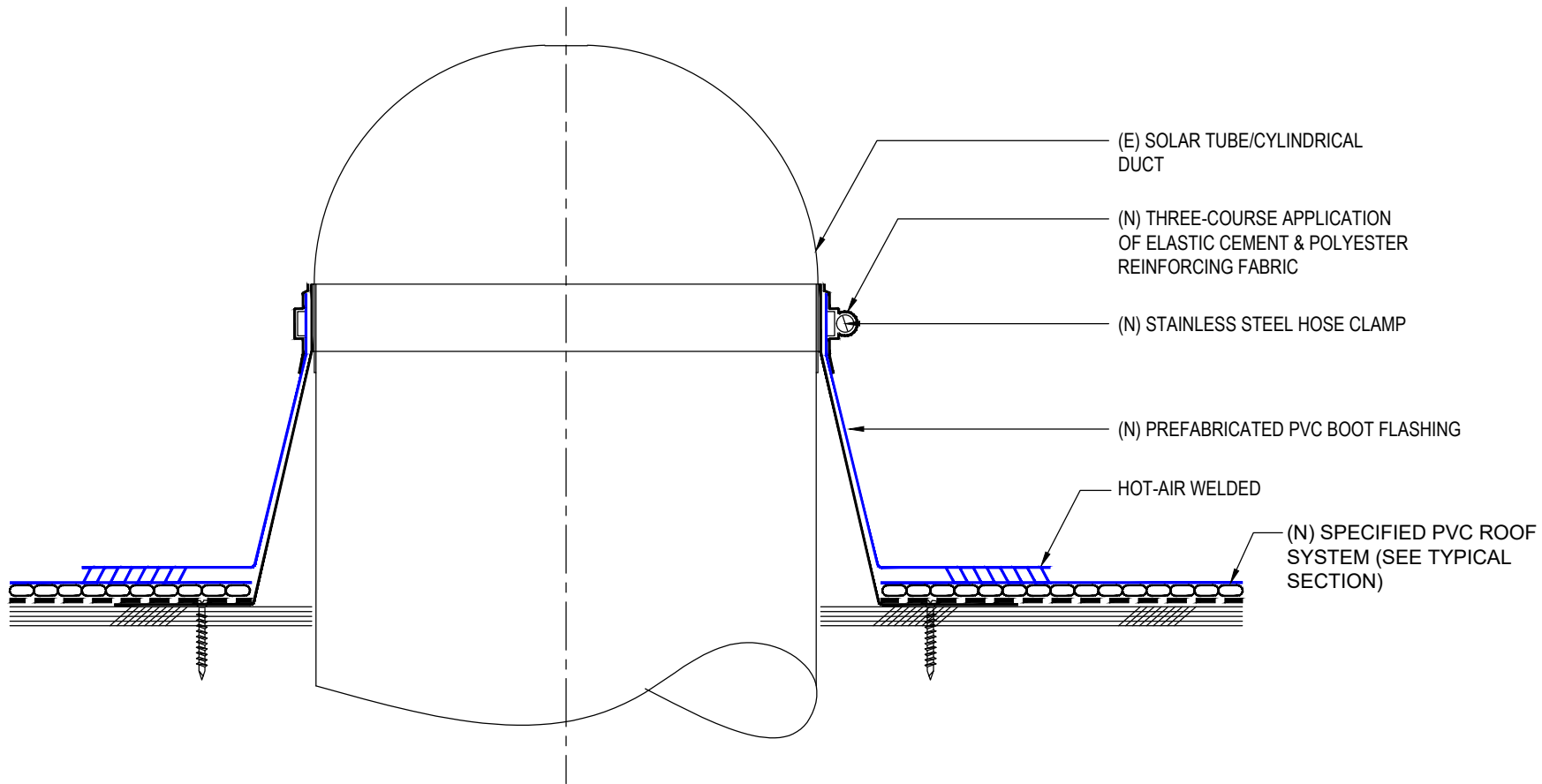
CHECKED BY: GE

CAD DRAWING NO: 1024FV01

SCALE: N.T.S

**NOTE:**

A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.



PROJECT NAME:  
**BURBANK  
TEMPORARY AID  
CENTER**  
ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:  
**BOOT FLASHING @  
SOLAR TUBE &  
CLYNDRICAL DUCT**

IRC PROJECT NO: 00000.00

DATE: 09/30/23

DRAWN BY: BN

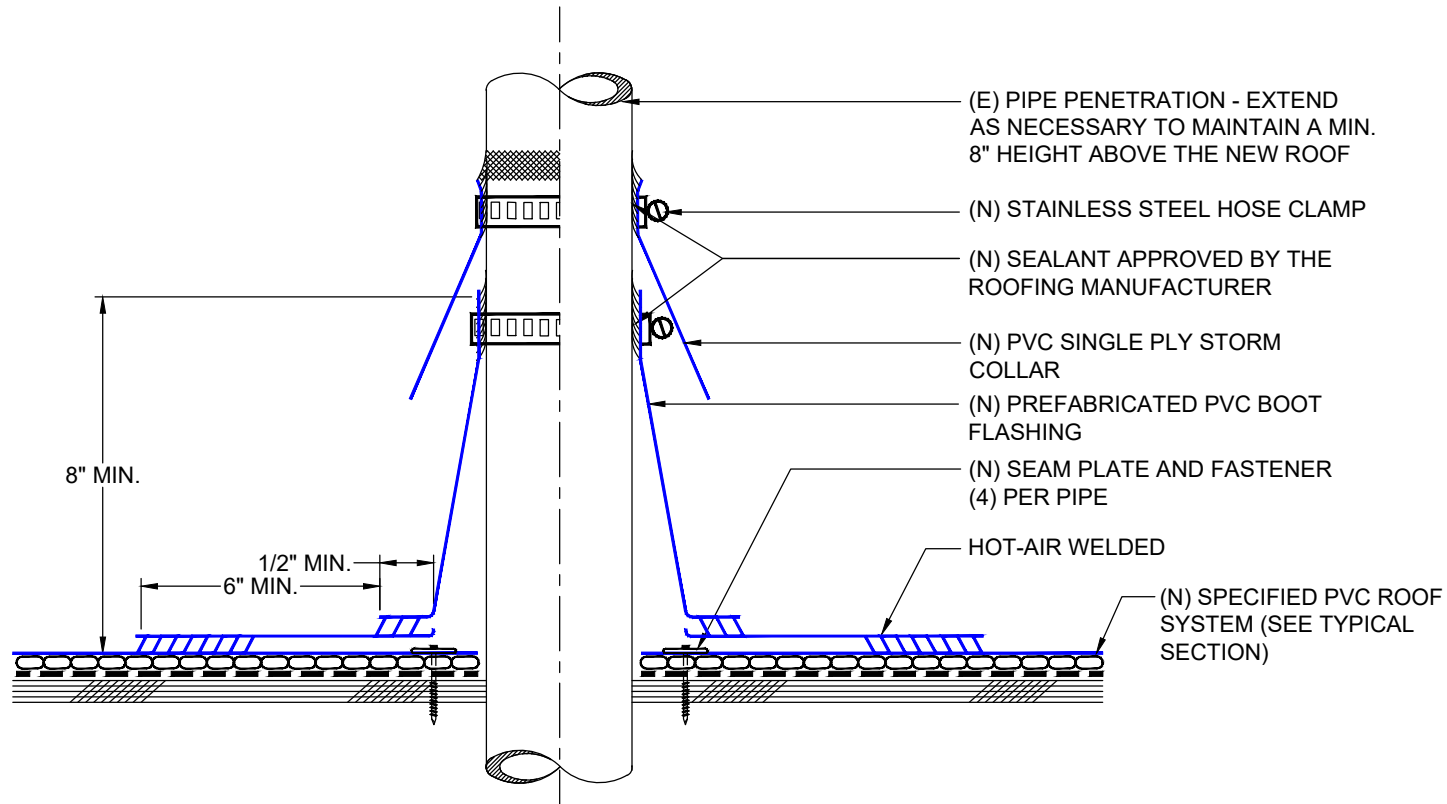
CHECKED BY: GE

CAD DRAWING NO: 1024ST01

SCALE: N.T.S

**NOTE:**

A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.



PROJECT NAME:  
**BURBANK  
TEMPORARY AID  
CENTER**  
ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:  
**CONE  
(PRE-FABRICATED)  
PIPE PENETRATION**

IRC PROJECT NO: 00000.00

DATE: 09/30/23

DRAWN BY: BN

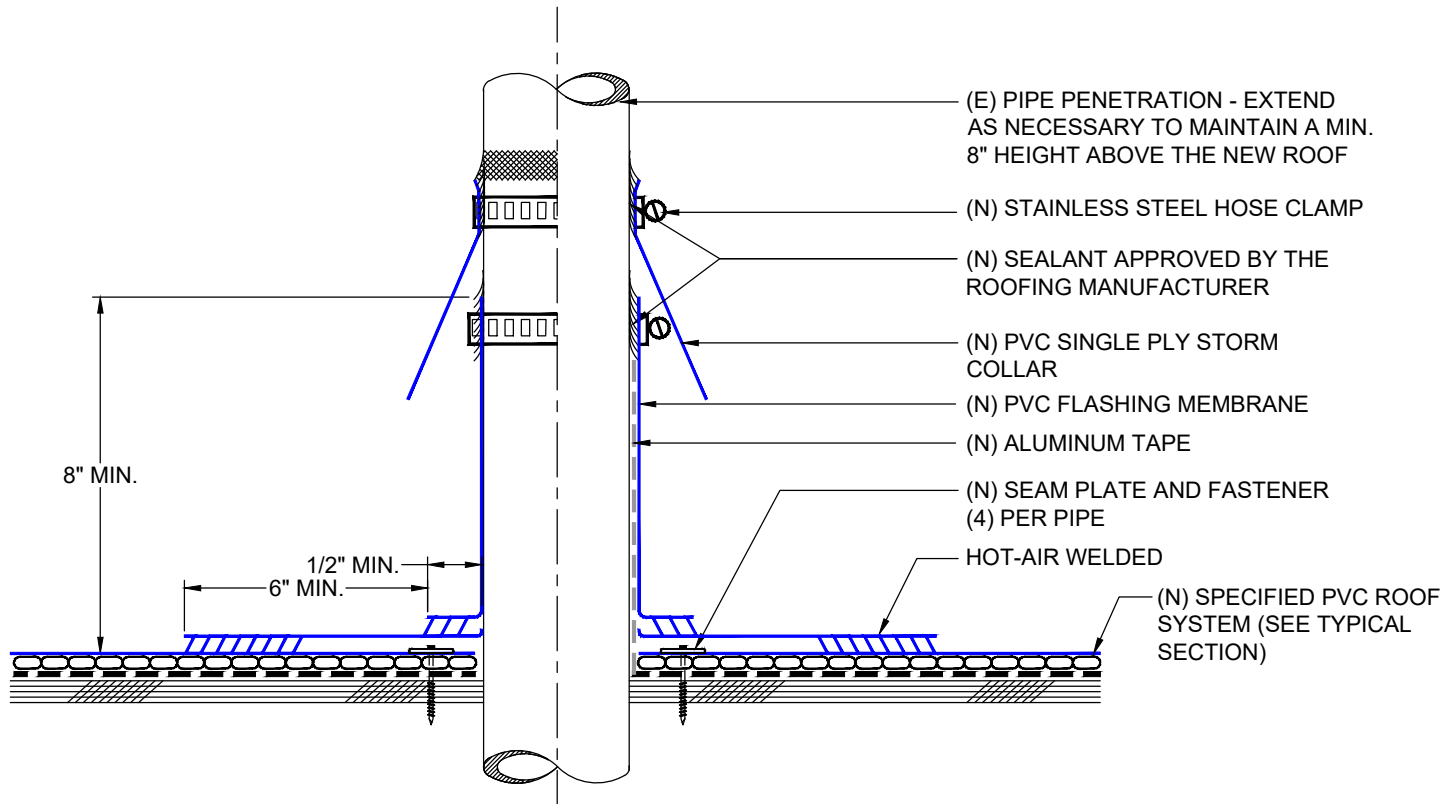
CHECKED BY: GE

CAD DRAWING NO: 1024CL01

SCALE: N.T.S

**NOTE:**

A. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.



PROJECT NAME:  
**BURBANK  
TEMPORARY AID  
CENTER**  
ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

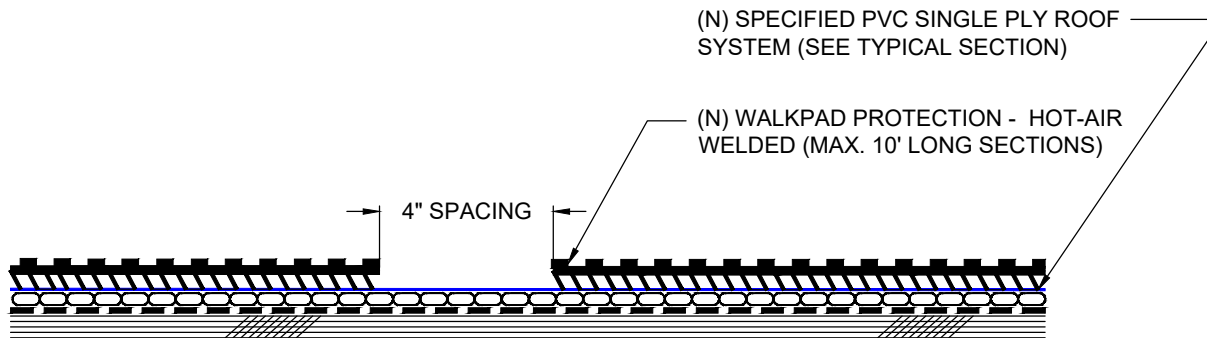
DETAIL DESCRIPTION:

**PIPE PENETRATION -  
FIELD WRAPPED**

IRC PROJECT NO: 00000.00  
DATE: 09/30/23  
DRAWN BY: BN  
CHECKED BY: GE  
CAD DRAWING NO: 1024CL02  
SCALE: N.T.S

**NOTE:**

- A. WALK PAD TO BE PLACED AROUND ALL SERVICEABLE UNITS AND AT ROOF ACCESS POINTS.



PROJECT NAME:  
**BURBANK  
TEMPORARY AID  
CENTER**  
ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:

**96 MILS THICK SINGLE  
PLY PROTECTION PAD**

IRC PROJECT NO: 00000.00

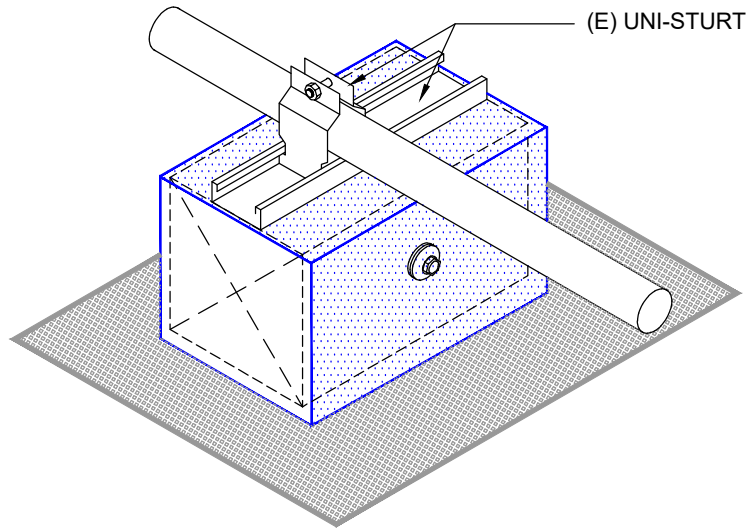
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DRAWN BY: BN

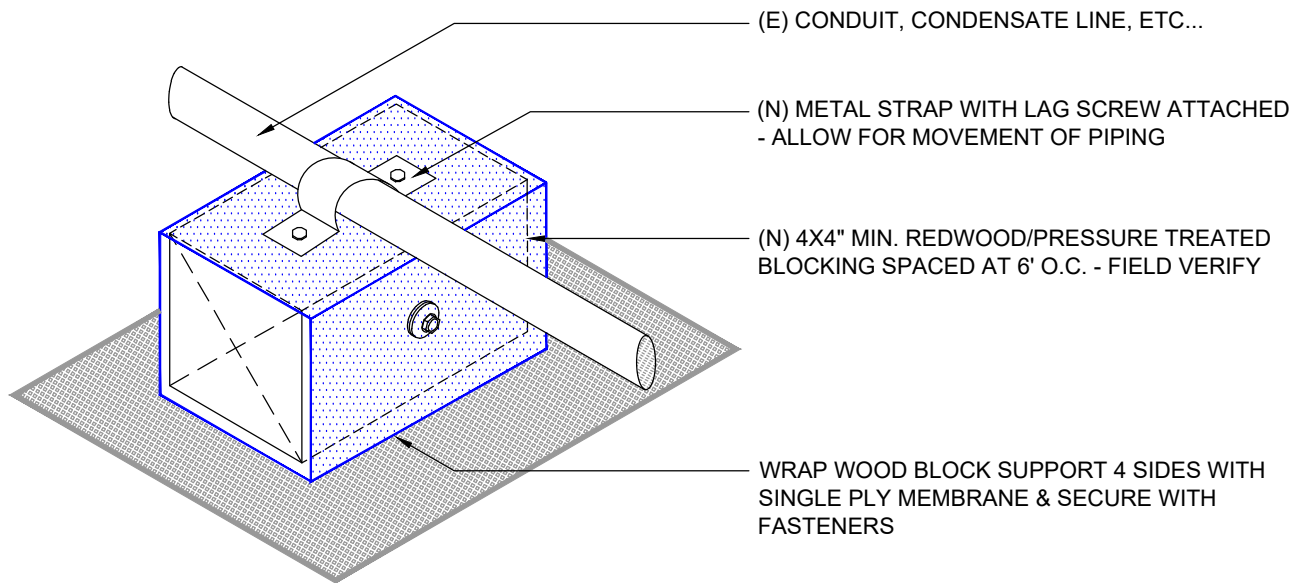
CHECKED BY: GE

CAD DRAWING NO: 1024WP01

SCALE: N.T.S



(E) UNI-STURT



(E) CONDUIT, CONDENSATE LINE, ETC...

(N) METAL STRAP WITH LAG SCREW ATTACHED  
- ALLOW FOR MOVEMENT OF PIPING

(N) 4X4" MIN. REDWOOD/PRESSURE TREATED  
BLOCKING SPACED AT 6' O.C. - FIELD VERIFY

WRAP WOOD BLOCK SUPPORT 4 SIDES WITH  
SINGLE PLY MEMBRANE & SECURE WITH  
FASTENERS

PROJECT NAME:  
**BURBANK  
TEMPORARY AID  
CENTER**  
ROOF SECTIONS C & D  
1304 W. BURBANK BLVD.  
BURBANK, CA 91506

DETAIL DESCRIPTION:  
**PRESUURE-TREATED  
OR REDWOOD  
CONDUIT/  
CONDENSATION LINE  
SUPPORT**

IRC PROJECT NO: 00000.00

DATE: 09/30/23

DRAWN BY: BN

CHECKED BY: GE

CAD DRAWING NO: 1024WP02

SCALE: N.T.S