TULSA PUBLIC SCHOOLS

ROOFING IMPROVEMENTS AT EAST CENTRAL HS AND SPRINGDALE ELEMENTARY

07.20.26

Addendum # 5

This addendum is hereby a part of those documents and contracts, the same as if bound therein and it shall supersede anything contained in the original bid manual with which it might conflict.

-At East Central Library:

1. See East Central Library Roof overview below where four (4) new through-wall scuppers with metal scupper inserts are to be installed. New conductor heads and downspouts are to be included at each new scupper location. Scuppers are to be 4" X 6", downspouts are to be 6" X 6" 22 ga. pre-finished. Conductor heads are to include overflow outlet located on front side.
   NOTE* Existing conductor head and downspout on South perimeter of Library is to be replaced with new conductor head and 6" X 6" 22 ga. pre-finished downspout. Conductor head shall have overflow outlet located on front side. Match contour of existing downspout.

2. At East Perimeter where gravel stop exists, once existing roof is removed, install wood blocking to accommodate new tapered insulation thickness. Install new 24. Ga pre-finished gravel guard with 1" gravel stop.

3. For new coping metal to be installed over existing stone coping, exterior facia length on new metal coping shall be 3" max. New coping metal is to color match the existing coping metal on the upper roof.

4. Install new 24. Ga pre-finished slip metal to cover gap between face of new metal coping cap and top of wall panels along entire perimeter where wall panels and stone coping exists. Fasten through face of new coping metal 8" O.C. Fasten lower portion of slip metal over top portion of wall panels if needed.

-At Springdale Elementary School:

1. All roof sections designated for Roof Replacement shall be replaced with a fully adhered .60 Mil KEE Single-Ply Roof System. Please see the revised specification to include the roof system changes.

2. Roof Sections L3 & L4 shall be included for Roof Replacement.

3. See Springdale Elementary Roof Plan below with revised KEE walkpad walkway layout.

4. Locations marked in blue are where fixed ladders are to be installed. Please call Okeefe's for pricing and ladder recommendations. NOTE* Fixed ladders are to be included in base bid.

5. Remove all obsolete penetrations on all roof sections designated for Roof Replacement identified during roof walk as a part of the base bid. Repair areas to match existing components.

6. Roof Section F: Roof Section F is to have 1/8”/foot tapered insulation. Add new through-wall scupper with metal scupper insert to Southwest perimeter. Scupper is to be 4" X 6". At North perimeter, remove lower facia metal piece. Install new skirt metal counterflashing at entire North perimeter fastened 8" O.C. after installing KEE flashing membrane.

7. Roof Section C: Owner will be responsible for moving electric conduit line to new location for two (2) conduit line tie-ins at North perimeter for Roof Sections C & D. Contractor is to cut hole in metal roof panel for owner to relocate conduit lines.

8. Remove obsolete outlet.

9. Roof Sections C & D are to have 1/8”/foot tapered insulation.

10. Add through-wall scupper (4”X 6”) with metal scupper insert at area divider between roofs C & D on South side.

11. Add new through wall scupper (4” X 6”) with metal scupper insert at roof section D on Southwest perimeter.

12. Roof Section J: Include splash shield on exterior side of gutter. See roof plan for location of splash shield.

13. Roof Section G: Remove and install new pitch pan around exhaust fan. Fill with pourable sealer. Remove and install new reglet counterflashing.

14. Roof Section E: At Southeast corner on exterior side where metal roof panel ties into perimeter metal facia, fabricate and install new metal piece to cover existing gap. See photo below for reference.

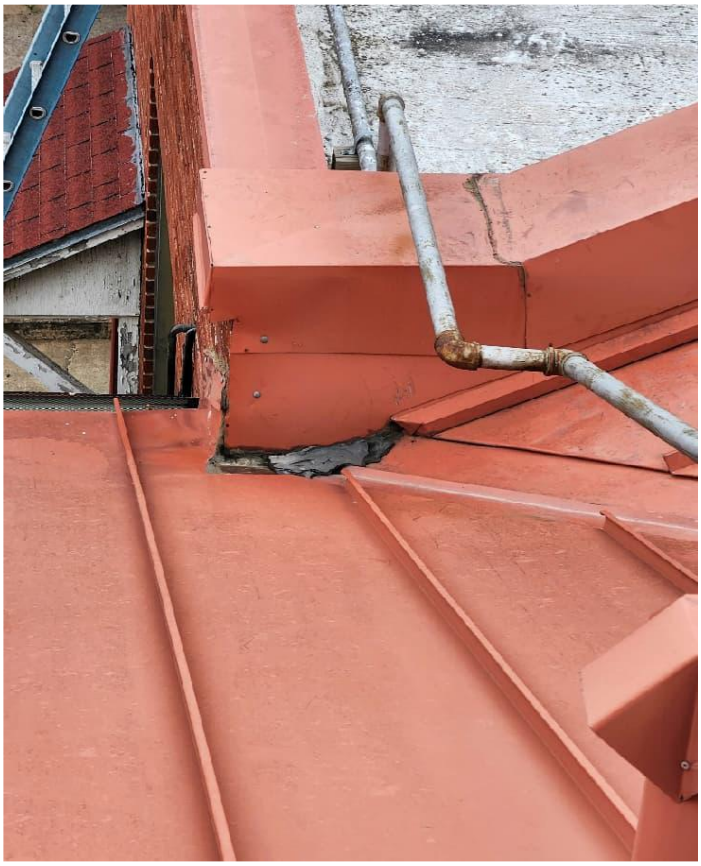
15. Roof Section B: Remove existing reglet counterflashing and replace with new counterflashing.

16. At metal roof canopy on North side of school, fabricate and install new metal closure piece to conceal existing gap. See photo below for reference.

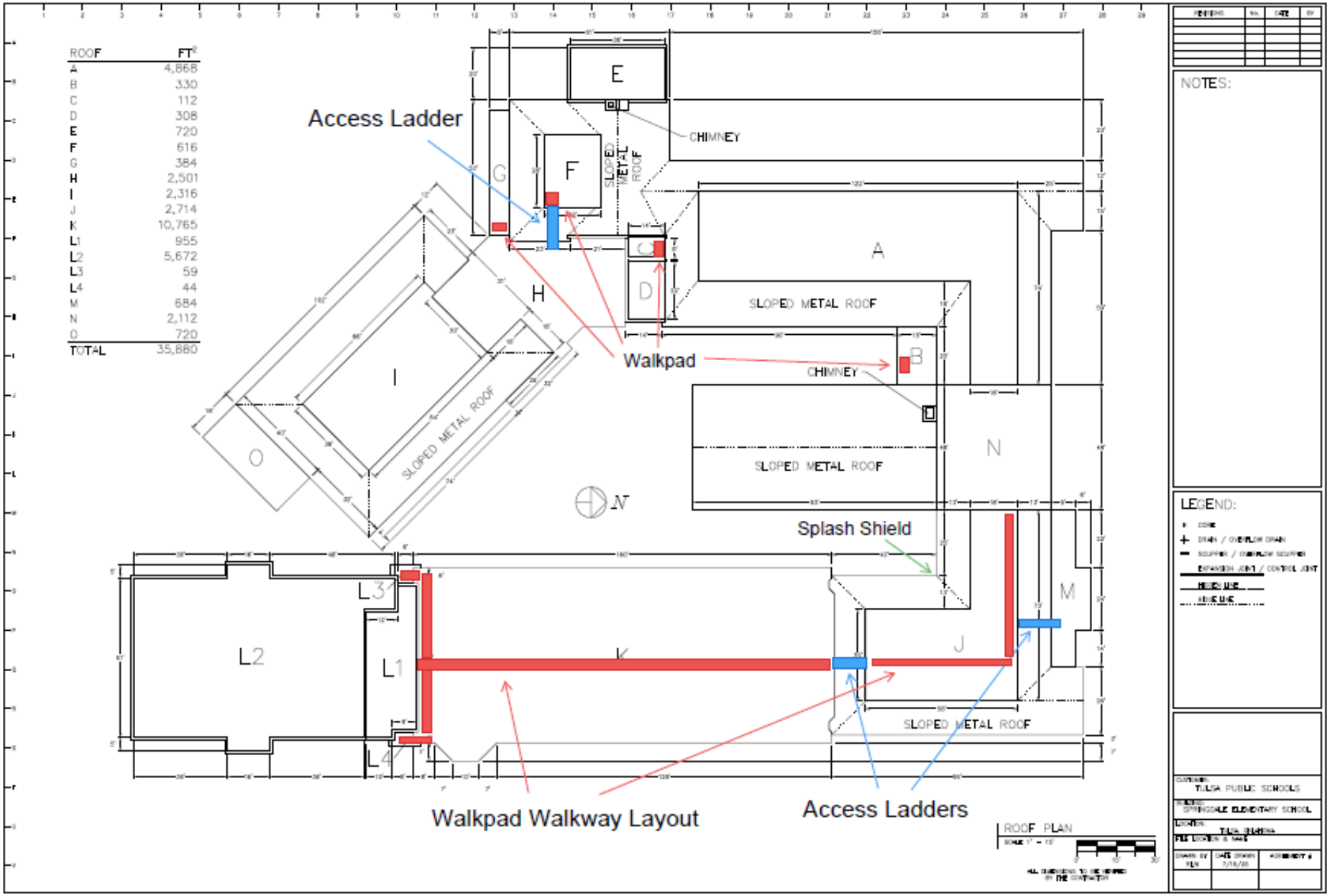
17. Roof Section K: The deck at Roof Section K has been identified as a concrete deck. Please see in revised specification the insulation attachment method.

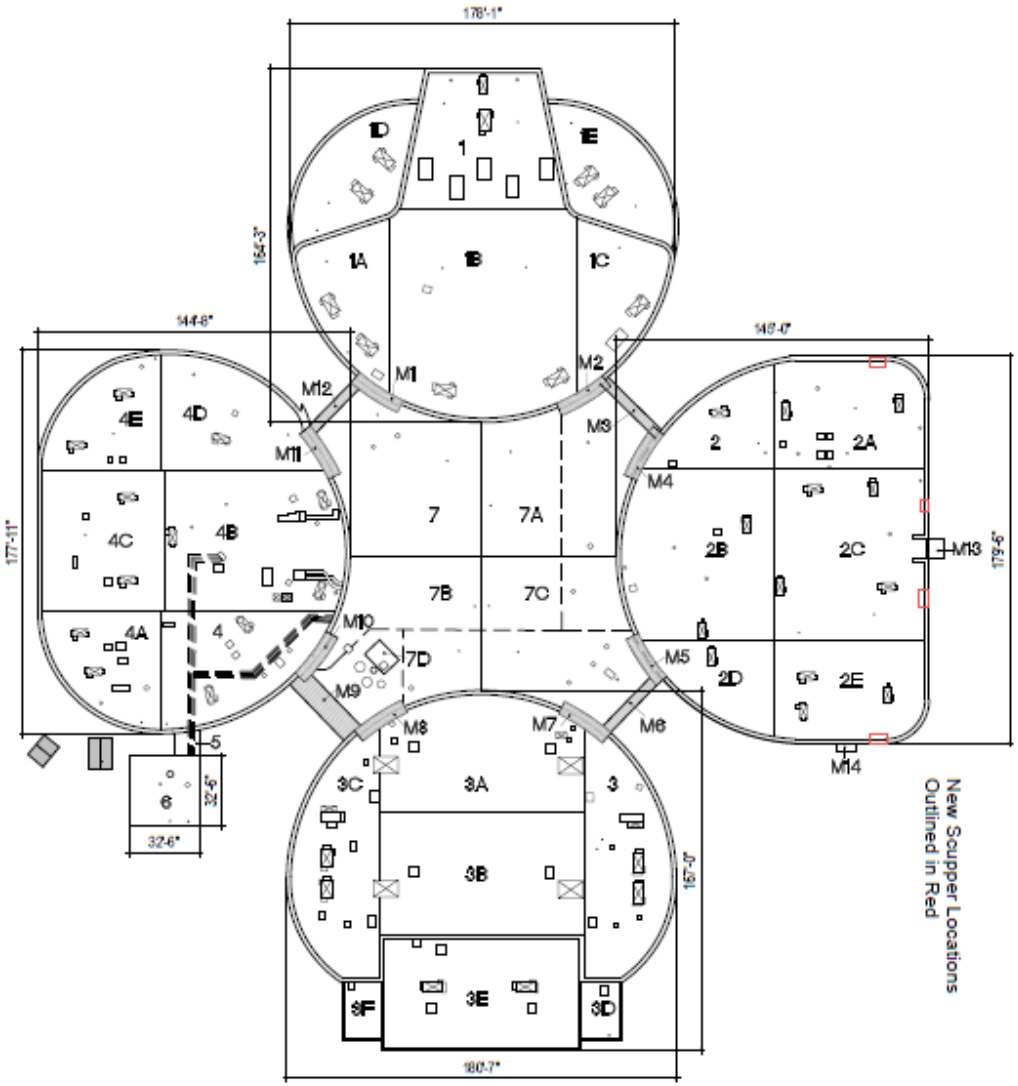
    NOTE* Contractor is responsible for raising gas lines.

18. Roof Sections L3 & L4: Remove existing reglet counterflashing and replace with new counterflashing.






ROOF FT²
A 4,868
B 330
C 112
D 308
E 720
F 616
G 384
H 2,501
I 2,316
J 2,714
K 10,765
L1 955
L2 5,672
L3 59
L4 44
M 684
N 2,112
O 720
TOTAL 35,880
Access Ladder
CHIMNEY
SLOPED METAL ROOF
Walkpad
SLOPED METAL ROOF
CHIMNEY
SLOPED METAL ROOF
N
Splash Shield
SLOPED METAL ROOF
Walkpad Walkway Layout
Access Ladders
NOTES:
LEGEND:
ROOF PLAN



Bldg.	Roof Area	Square Footage	Building Sq. Ft.
1	1	4,365	22,836
	1A	2,564	
	1B	8,255	
	1C	2,564	
	1D	2,544	
	1E	2,544	
2	2	2,107	22,383
	2A	3,687	
	2B	5,545	
	2C	5,751	
	2D	1,954	
	2E	3,339	
3	3	4,296	24,479
	3A	4,838	
	3B	5,342	
	3C	4,296	
	3D	489	
	3E	4,729	
	3F	489	
4	4	3,470	20,953
	4A	2,561	
	4B	5,387	
	4C	3,800	
	4D	3,228	
	4E	2,507	
5			128
6			128
7	7	4,565	18,583
	7A	4,612	
	7B	4,625	
	7C	4,656	
	7D	125	
Total			109,490

M1	148
M2	148
M3	171
M4	152
M5	148
M6	175
M7	150
M8	150
M9	380
M10	148
M11	150
M12	158
M13	70
M14	39
Total	2,187

Roof Plan

SCALE 1" = 60'-0"

0' 40' 80' 120'

TREMC
Roofing & Building Ma

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DISTRIBUTION DATE: 05.22.26

DRAWN BY: RLW

LEGEND:
- PENETRATION
- CURB
- HVAC UNIT
- NOT IN CONTRACT

NOTE: ALL DIMENSIONS A... APPROXIMATE IN SIZE AND ... TO USED AS REFERENCE PU...

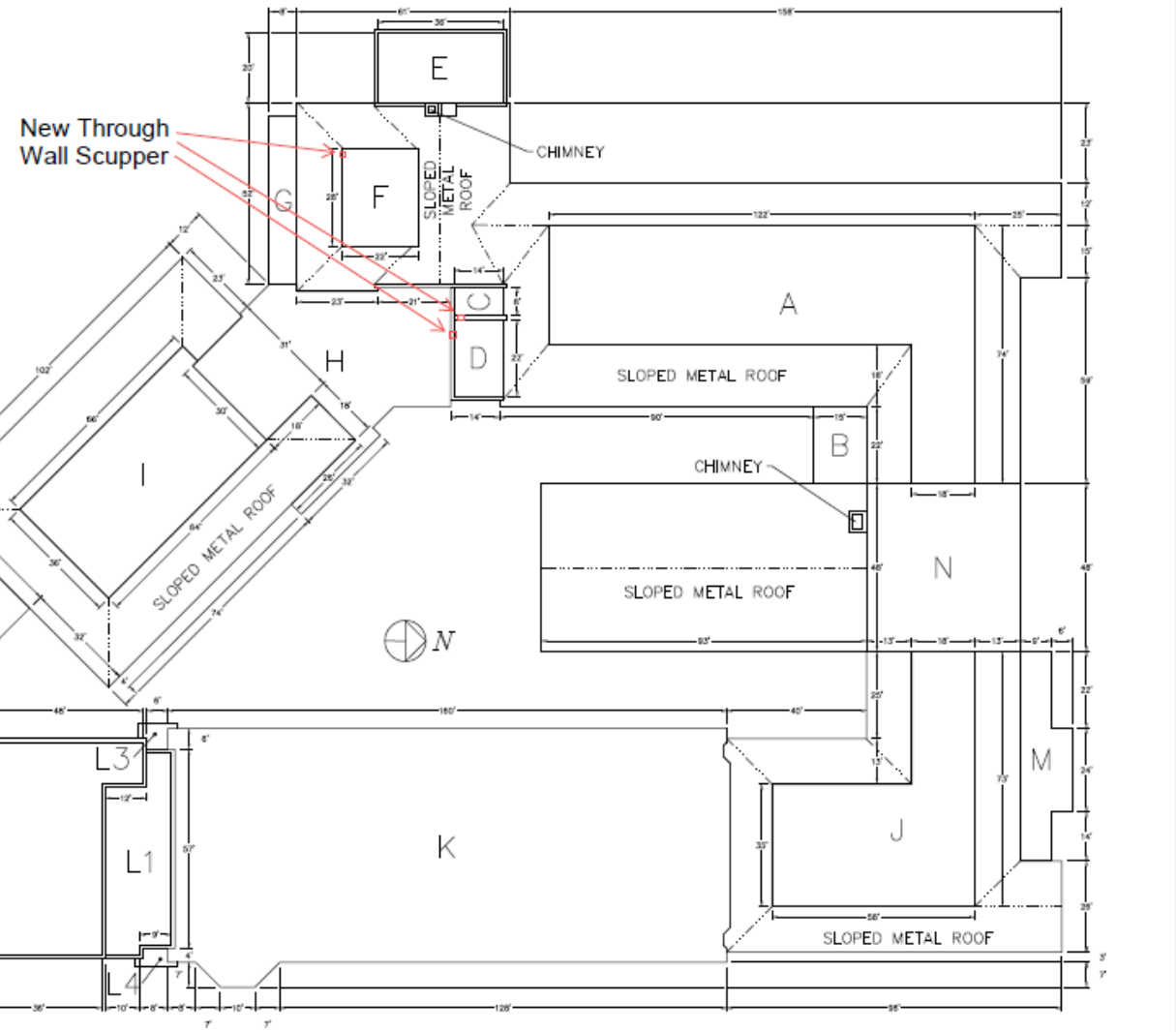
East Central High School
12150 E. 11th St.
Tulsa, OK 74128

DIMENSIONS TO BE FIELD VERIFIED BY ...

SHEET NAME: ROOF PLAN

SHEET NO.: R1.0

ROOF	FT²
A	4,868
B	330
C	112
D	308
E	720
F	616
G	384
H	2,501
I	2,316
J	2,714
K	10,765
L1	955
L2	5,672
L3	59
L4	44
M	684
N	2,112
O	720
TOTAL	35,880



ROOF PLAN

SCALE: 1" = 15'

ALL DIMENSIONS TO BE VERIFIED BY THE CONTRACTOR

REVISIONS	No.	DATE	BY

NOTES:

LEGEND:

- CORE
- DRAIN / OVERFLOW DRAIN
- SCUPPER / OVERFLOW SCUPPER
- EXPANSION JOINT / CONTROL JOINT
- HIDDEN LINE
- RIDGE LINE

CUSTOMER: TULSA PUBLIC SCHOOLS

BUILDING: SPRINGDALE ELEMENTARY SCHOOL

LOCATION: TULSA, OKLAHOMA

FILE LOCATION & NAME:

DRAWN BY	DATE DRAWN	AGREEMENT #
HLW	7/16/25	

SECTION 075416 - KETONE ETHYLENE ESTER (KEE) ROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Adhered thermoplastic KEE roofing system on metal deck, wood deck and concrete deck, including:

2. Roof insulation.

3. Roof insulation cover board.

4. Walkways.

B. Roof Sections to be replaced: K, L3, L4, J, B, C, D, E, F, G

C. Scope of Work Summary:

1. At Roof Sections designated for Roof Replacement, remove the existing roof down to the decking substrate.

2. At Roof Section K, install ¼" tapered Polyisocyanurate Insulation adhered in Low Rise Foam insulation adhesive over the concrete deck at an application rate of max 12" O.C. Base layer insulation starting height: 1.5". Install ½" DensDeck Prime coverboard in Low Rise Foam insulation adhesive. NOTE* Insulation boards that are to be adhered must be 4' X 4'.

3. At Roof Sections L3 & L4, install 1/4" tapered Polyisocyanurate Insulation mechanically fastened at a rate of 1 fastener per 2 sq. ft. Fastener engagement: Minimum 0.75-inch penetration of steel decking. Base layer insulation starting height: 1.5". Install ½" DensDeck Prime cover board in Low Rise Foam Insulation Adhesive.

4. At Roof Sections J, B, C, D, E, F, G, install Polyisocyanurate insulation over wood decking. Fasten insulation preliminarily, to secure insulation in place until subsequent materials are installed and mechanically fastened through insulation to deck. Roof Sections F, C, & D will have 1/8" tapered Polyisocyanurate insulation. Roof Section B will have ¼" tapered insulation. Roof Sections J, G, & E will have R-20 Polyisocyanurate insulation. Base layer insulation starting height: 1.5". Mechanically fasten ½" DensDeck Prime cover board over Polyisocyanurate insulation at a fastening rate of 1 fastener per 2 sq. ft. to engage wood decking. Fastener engagement to wood plank shall be minimum 1-inch embedment.

5. Adhere .60 Mil KEE Single-Ply Membrane in Bonding Adhesive as specified at a rate of 100 sq. ft. per gallon. Heat weld side laps and end laps of membrane. Install flashing system of .60 mil KEE Single-Ply Membrane in Bonding Adhesive as specified. Heat weld side laps and end laps. Fabricate and install new counterflashings.

6. At all Roof Sections designated for Roof Replacement, replace existing coping metal with new 24 ga. pre-finished perimeter coping metal. Secure flashing membrane to the exterior edge of the wood blocking (see detail drawing). Build up wood blocking to achieve minimum 6" flashing height. Where scuppers exist, replace with new 4" X 6" scuppers. Replace and fabricate new scupper inserts with soldered corners and flange. Add crickets in between each scupper and in corners to provide positive drainage.

6. Install new through wall scupper (4" X 6") with metal scupper insert at the following locations:

A: Southwest perimeter of Roof Section F

B. South side of area divider between Roof Sections C & D

C. Southwest perimeter of Roof Section D

7. If applicable, all wood blocking supports are to rest on single-ply buffer pad. Replace any rotted wood blocking supports with new wood blocking with a new metal strap.

8. At Roof Section G, remove and replace pitch pan around exhaust fan. Fill with pourable sealer. Remove and replace reglet counterflashing.

9. At Roof Sections L3 & L4, remove and replace existing reglet counterflashing.

10. Contractor is to provide tapered layout prior to the start of the project.

11. All disconnection and reconnection shall be performed by mechanical or electrical personnel provided by the roofing contractor.

D. Unit Prices – Quote the following unit prices:

1. Steel Deck Repair: $/sq. ft.

2. Steel Deck Replacement: $/sq. ft.

3. Steel Deck Overlayment:`$/sq. ft.

4. Wood Deck Repair: $/sq. ft.

5. Wood Deck Replacement: $/sq. ft.

6. Concrete Deck Repairs: $/sq. ft. per inch

7. Wood Blocking Replacement: $/lineal foot (2X4 & 2X6)

1.2 DEFINITIONS

A. Roofing Terminology: Refer to ASTM D1079 "Standard Terminology Relating to Roofing and Waterproofing" and applicable edition of NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" and NRCA's Glossary for definition of terms related to roofing work in this Section.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Roofing Conference: Conduct conference at Project site.

1. Meet with Owner, roofing Installer, roofing system manufacturer's representative, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.

2. Review drawings and specifications.

3. Review methods and procedures related to roofing installation, including manufacturer's written instructions.

4. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

5. Examine substrate conditions and finishes for compliance with requirements, including flatness and fastening.

6. Review structural loading limitations of roof deck during and after roofing.

7. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.

8. Review governing regulations and requirements for insurance and certificates if applicable.

9. Review temporary protection requirements for roofing system during and after installation.

10. Review roof observation and repair procedures after roofing installation.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other work.

1. Provide roof plan showing orientation and types of roof deck, orientation of membrane roofing, and fastener spacings and patterns for mechanically fastened components.

2. Base flashings and membrane terminations.

    a. Indicate details meet requirements of NRCA required by this Section.

3. Layout and thickness of insulation.

4. Tapered insulation layout, including slopes.

5. Crickets, saddles, and tapered edge strips, including slopes.

6. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.

7. Membrane securement, fastening or adhesion requirements.

C. Samples for Verification: For the following products:

1. Sheet roofing materials and base flashing, of type and color specified, including T-shaped side and end lap seam.

2. Roof insulation and cover board.

3. Walkway materials.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Statements: For Installer, Manufacturer and Roofing Inspector.

1. Letter written for this Project indicating manufacturer approval of Installer.

B. Contractor's Product Certificate: Submit signed certification, on company letterhead, indicating products intended for Work of this Section, including product names and numbers and manufacturers' names, with statement indicating that products to be provided meet the requirements of the Contract Documents.

C. Manufacturer Certificates:

1. Submit evidence of compliance with specified requirements in "Performance Requirements" Article.

    a. Include: External fire resistance submittal.

2. Product Compatibility: Indicate manufacturer has verified compatibility of roofing system components, including but not limited to: Roofing membrane, flashing sheets, adhesives, and sealants.

D. Warranties: Unexecuted sample copies of special warranties.

E. Field Quality Control Reports:

1. Inspection Reports: Reports of Roofing Inspector. Include weather conditions, description of work performed, tests performed, defective work observed, and corrective actions taken to correct defective work.

    a. Submit reports within 48 hours after inspection.

F. Manufacturer's Instructions: Submit copy of manufacturer's written installation instructions for specified roofing system.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: To include in maintenance manuals.

B. Executed copies of warranties.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: An employer of workers trained and certified by manufacturer, including a full-time on-site supervisor with a minimum of five years' experience installing products comparable to those specified, able to communicate verbally with Contractor, and employees, and qualified by the manufacturer to install manufacturer's product and furnish warranty of type specified. Must be located within 55-mile radius of Tulsa Public Schools.

B. Manufacturer Qualifications: Approved manufacturer with roofing systems comparable to that specified for this Project, with minimum five years' experience in manufacture of thermoplastic roof membrane products in successful use in similar applications.

1. Approval of Comparable Products: Submit the following in accordance with project substitution requirements, within time allowed for substitution review:

    a. Contractor's Product Certificate: Submit notarized certificate, indicating products intended for Work of this Section, including product names and numbers and manufacturer names, with statement indicating that products to be provided meet the requirements of the Contract Documents.

    b. Product data, including certified independent test data indicating compliance with requirements.

    c. Samples of each component.

    d. Sample submittal from similar project.

    e. Project references: Minimum of five installations of specified products not less than five years old, with Owner contact information.

    f. Sample warranty.

2. Substitutions for convenience following award of contract are not allowed.

3. Approved manufacturers must meet separate requirements of Submittals Article.

C. Roofing Inspector Qualifications: A technical representative of manufacturer not engaged in the sale of products and experienced in the installation and maintenance of the specified roofing system, qualified to perform roofing observation and inspection specified in Field Quality Control Article, to determine Installer's compliance with the requirements of this Project, and approved by the manufacturer to issue warranty certification. The Roofing Inspector shall be the following:

1. An authorized full-time technical employee of the manufacturer.

D. Manufacturer's Installation Instructions: Obtain and maintain on-site access to manufacturer's written recommendations and instructions for installation of products.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.

B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer.

1. Protect stored liquid material from direct sunlight.

2. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.

C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources.

1. Store in a dry location.

2. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.

D. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.

1.9 PROJECT / FIELD CONDITIONS

A. Protect building, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from roofing operations.

B. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.

C. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

D. Daily Protection: Coordinate installation of roofing so insulation and other components of roofing system not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is forecast.

1. Provide tie-offs at end of each day's work to cover exposed roofing and insulation with a course of roofing sheet securely in place with joints and edges sealed, weathertight.

2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing.

3. Remove temporary plugs from roof drains at end of each day.

4. Remove and discard temporary seals before beginning work on adjoining roofing.

E. Owner will occupy portions of building immediately below roofing area. Conduct roofing so Owner's operations will not be disrupted. Provide Owner with not less than 72 hours' notice of activities that may affect Owner's operations.

1.10 WARRANTY

A. Manufacturer's Warranty: Roof System Manufacturer's standard form in which Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within warranty period, as follows.

1. Form of Warranty: Manufacturer's standard warranty form.

2. Scope of Warranty: Work of this Section and including sheet metal details and termination details installed by the roof system Installer and approved by the Roof System Manufacturer.

3. Warranty Period: 20 years from date of completion.

B. Manufacturer Inspection Services: By manufacturer's technical representative, to report maintenance responsibilities to Owner necessary for preservation of Owner's warranty rights. The cost of manufacturer's inspections is included in the Contract Sum.

1. Inspections to occur in following years: 2, 5, 10 and 15 following completion.

C. Installer Warranty: Installer's warranty signed by Installer, as follows.

1. Form of Warranty: Form acceptable to Roofing Manufacturer and Owner.

2. Scope of Warranty: Work of this Section.

3. Warranty Period: 5 years from date of completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design: The roof system specified in this Section is based upon products of Tremco CPG Inc, Beachwood, OH, (800) 562-2728, www.tremcoroofing.com that are named in other Part 2 articles. Provide specified products.

1. Manufacturers of comparable products: Approved by Owner prior to bid.

B. Source Limitations: Obtain components for roofing system from same manufacturer as membrane roofing or manufacturer approved by membrane roofing manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. General Performance: Installed membrane roofing and base flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Membrane roofing and base flashings shall remain watertight.

1. Accelerated Weathering: Roofing system shall withstand 10,000 hours of exposure when tested according to ASTM G152, ASTM G154, or ASTM G155.

2. Impact Resistance: Roof membrane shall resist impact damage when tested according to ASTM D3746/D3746M, ASTM D4272/D4272M.

B. Material Compatibility: Roofing system materials to be compatible with one another and adjacent materials under conditions of service and installation required, as demonstrated by roofing membrane manufacturer based on testing and field experience.

C. Roofing System Design: Provide membrane roofing system that is identical to systems that have been successfully tested by a qualified testing and inspecting agency in accordance with ANSI/FM 4474, UL 580, or UL 1897, and to resist uplift pressures calculated in accordance with ASCE-7 and applicable code.

1. Calculate pressures for Allowable Stress Design, including a safety factor multiplier of 2.

D. SPRI Wind Design Standard: Manufacture and install copings and roof edge flashings tested according to ANSI/SPRI/FM 4435 ES-1, capable of resisting design pressures calculated in accordance with ASCE-7 and applicable code.

E. Flashings and Fastening: Provide base flashings, perimeter flashings, detail flashings and component materials and installation techniques that comply with requirements and recommendations of the following:

1. Roofing system manufacturer’s details and recommendations.

2. NRCA Roofing Manual for construction details and recommendations.

3. SMACNA Architectural Sheet Metal Manual for construction details.

F. Exterior Fire-Test Exposure: ASTM E108 or UL 790, Class A; for application and roof slopes indicated, as determined by testing identical membrane roofing materials by a qualified testing agency. Materials shall be identified with appropriate markings of applicable testing agency.

2.3 MATERIALS, GENERAL

A. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.

2.4 THERMOPLASTIC MEMBRANE MATERIALS

A. KEE Roof Membrane:

1. Thermoplastic Ketone Ethylene Ester (KEE) coated polyester fabric-reinforced sheet, ASTM D6754.

a. Basis of design product: Tremco, TremPly KEE Single Ply Roof Membrane or approved equal.

b. Breaking Strength, minimum, ASTM D751: Machine direction, 500 lbf/in (87 kN/m); Cross machine direction, 400 lbf/in (70 kN/m).

c. Tear Strength, minimum, ASTM D751: Machine direction,120 lbf (162 N/m); Cross machine direction, 140 lbf (190 N/m).

d. Elongation at Break, ASTM D751: 20 percent.

e. Dynamic Impact/Puncture Resistance, ASTM D5635: 30 J, minimum.

f. Minimum Membrane Thickness, nominal, less backing, ASTM D751: 60 mils (1.5 mm).

g. Thickness over fiber, optical method: 0.016 inches (0.406).

h. Accelerated Weathering, ASTM G155 and ASTM G154: Not greater than 15,000 hr., no cracking or crazing.

i. Abrasion Resistance, ASTM D3389: Not greater than 2,000 cycles, H-18 wheel, 1,000 g load.

j. Color: White.

k. Solar Reflectance Index (SRI), ASTM E1980: 110 (White, initial), 86 (White, 3-yr aged).

2.5 BASE FLASHING MATERIALS

A. Sheet Flashing: Manufacturer's standard, smooth-backed, sheet flashing of same material, type, reinforcement, thickness and color as KEE roof membrane.

2.6 ADHESIVE MATERIALS

A. General: Adhesive and sealant materials recommended by roofing system manufacturer for intended use and compatible with roofing membrane.

1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.

2. Membrane Bonding Adhesive:

a. Bonding adhesive, solvent based fast drying, VOC-compliant, for bonding KEE smooth-backed single ply membranes and flashings to substrates.

1) Basis of design product: Tremco, TremPly KEE LV Bonding Adhesive or approved equal.

2) VOC, maximum, ASTM D 3960: 200 g/L.

3. Flashing Membrane Adhesive:

a. Same product as membrane adhesive.

2.7 AUXILIARY ROOFING MATERIALS

A. General: Auxiliary membrane roofing materials recommended by roofing system manufacturer for intended use, and compatible with membrane roofing.

B. Prefabricated Flashings: As recommended by roof membrane manufacturer, for pipe, penetration and miscellaneous flashings.

C. Fasteners, General: Factory-coated steel fasteners and metal plates meeting corrosion-resistance provisions in FM 4470, designed for fastening roofing components to substrate, tested by manufacturer for required pullout strength, and acceptable to roofing system manufacturer.

1. Use fasteners of type listed in manufacturer’s tested assembly for required wind uplift resistance.

D. Metal Battens: Manufacturer's standard, aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch wide by 0.05 inch (25 mm wide by 1.3 mm) thick, prepunched.

E. Metal Termination Bars: Manufacturer's standard, predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch (25 mm by 3 mm) thick; with anchors.

F. Joint Sealant: Elastomeric joint sealant compatible with roofing materials, with movement capability appropriate for application.

1. Joint Sealant, Polyurethane: ASTM C920, Type S, Grade NS, Class 50 single-component moisture curing sealant, formulated for compatibility and use in dynamic and static joints; paintable.

a. Basis of design product: Tremco, TremSEAL Pro or approved equal.

b. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 40 g/L.

c. Hardness, Shore A, ASTM C661: 40.

d. Adhesion to Concrete, ASTM C794: 35 pli.

e. Tensile Strength, ASTM D412: 350 psi (2410 kPa).

f. Color: Closest match to substrate.

G. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.

H. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories, as recommended by roofing system manufacturer.

2.8 ROOF INSULATION AND INSULATION ACCESSORIES

A. Roof Insulation, General: Preformed roof insulation boards manufactured or approved by roofing manufacturer, selected from insulation manufacturer's standard sizes, suitable for application, and of thicknesses indicated. Provide roof insulation accessories recommended by insulation manufacturer for intended use and compatible with roofing.

1. Tapered Insulation: Provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches for Roof Sections K ,B, L3, & L4. 1/8 inch per 12 inches for Roof Sections C, D, & F.

2. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain to maintain positive drainage. Fabricate to slopes indicated, not less than two times the roof slope.

B. Roof Insulation:

1. Board Insulation, Polyisocyanurate: CFC- and HCFC- free, with recycled content glass-fiber mat facer on both major surfaces, ASTM C1289 Type II Class 1.

a. Basis of design product: Atlas Roofing Corp, ACFoam III Insulation or approved equal.

b. Compressive Strength, ASTM D1621: Grade 2: 20 psi (138 kPa).

c. Conditioned Thermal Resistance at 75 deg. F (24 deg. C): 14.4 at 2.5 inches (50.8 mm) thick.

C. Insulation Cover Board:

1. Gypsum panel, glass-mat-faced, primed, ASTM C1177/C1177M.

a. Basis of design product: GP Gypsum DensDeck Prime.

b. Thickness: 1/2 inch (12 mm).

D. Roof Insulation and Cover Board Adhesive:

1. Urethane adhesive, bead-applied, low-rise two-component solvent-free low odor, formulated to adhere roof insulation to substrate.

a. Basis of design product: Tremco, Low Rise Foam Insulation Adhesive or approved equal.

b. Flame Spread Index, ASTM E84: 10.

c. Smoke Developed Index, ASTM E84: 30.

d. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 0 g/L.

e. Tensile Strength, minimum, ASTM D412: 250 psi (1720 kPa).

f. Peel Adhesion, minimum, ASTM D903: 17 lbf/in (2.50 kN/m).

g. Flexibility, 70 deg. F (39 deg. C), ASTM D816: Pass.

E. Tapered Edge Strips: ASTM C208, Type II, Grade 1, cellulosic-fiber insulation board.

F. Substrate Joint Tape: 6- or 8-inch- (150- or 200-mm-) wide, coated, glass fiber.

2.9 WALKWAY MATERIALS

A. Walkway Material:

1. Protection walkway roll, reinforced KEE membrane roll with diamond-tread, slip-resistant surface, fabricated for heat welding to compatible KEE membrane surface.

a. Basis of design product: Tremco, TremPly KEE Protection Walkway Roll or approved equal.

b. Roll Size: 30 inches by 100 ft (760 mm by 25.4 m).

c. Thickness: 0.060 inch (1.5 mm).

d. Breaking strength: 450 lbs (77 kN/m).

e. Color: Yellow.

2.10 PERIMETER METAL/COUNTERFLASHING

1. Pre-finished 24 ga. metal

2.11 SCUPPER INSERTS

1. 24 ga., galvanized.

2. All seams and joints of scupper inserts shall either be soldered or a hem interlock break installed in accordance with the manufacturer’s roof detail drawings.

2.12 WOOD BLOCKING & CURBS

1. Lumber:

a. Southern Pine; No. 2 grade; free from warping and visible decay; pressure-treated with alkaline copper quaternary (ACQ) to meet AWPB, LP-22, 0.40 retention, and marked.

2.13 DECK REPAIR/REPLACEMENT MATERIALS

A. Metal Deck Repair Materials:

1. Roof Deck: Fabricate panels, without top-flange stiffening grooves, to comply with "SDI Specifications and Commentary for Steel Roof Deck," in SDI Publication No. 31, and with the following:

a. Gage, rib depth, rib configuration to match existing; three span; lapped and stitched joints.

b. Sheet Steel: ASTM A653/A653M, Grade A structural quality; with G90 coating (galvanized).

2. Fasteners:

a. Mechanical Fasteners: Corrosion-resistant, low-velocity, power-actuated or pneumatically driven carbon-steel fasteners; or self-drilling, self-threading screws.

b. Side-Lap Fasteners: Corrosion-resistant, hexagonal washer head; self-drilling, carbon-steel screws, No. 10 (4.8 mm) minimum diameter.

3. Accessories: Provide manufacturer's standard accessory materials for deck that comply with requirements indicated.

B. Concrete Deck Repair Materials:

1. Bonding Agent: Epoxy-modified, cementitious bonding and anticorrosion agent consisting of water-insensitive epoxy adhesive, Portland cement, and water-based solution of corrosion-inhibiting chemicals that forms a protective film on steel reinforcement.

2. Patching Mortar: Trowelable cementitious repair mortar for vertical and overhead, repairs up to 2 inches (50 mm) per lift, one component, fiber reinforced, polymer modified repair mortar containing corrosion inhibitor.

a. Compressive Strength: Not less than 6,000 psi (41,400 kPa) at 28 days when tested according to ASTM C 109/C 109M, modified 2-inch (50-mm) cubes.

C. Wood Roof Deck Components:

1. Wood Deck Material:

a. Comply with DOC PS 20 and with applicable grading rules of inspection agencies certified by ALSC's Board of Review.

b. Moisture Content: Provide wood decking with 19 percent maximum moisture content at time of dressing.

c. Match existing size, face surface and edge profile.

d. Decking Species: Balsam fir, Douglas fir-larch, Douglas fir-larch (North), hem-fir, hem-fir (North), southern pine, spruce pine-fir (North), western hemlock, or western hemlock (North).

e. Decking Grade: Commercial decking.

1) Grade Stamps: Factory mark each item with grade stamp of grading agency. Apply grade stamp to surfaces that will not be exposed to view.

f. Preservative Treatment: Pressure treat solid-sawn wood decking according to AWPA C31 with inorganic boron (SBX) and redry wood to 19 percent maximum moisture content.

g. Fasteners for Solid-Sawn Decking: Provide fastener size and type complying with decking standard for thickness of deck used.

1) Fastener Material: Hot-dip galvanized or stainless steel.

2. Fasteners: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

a. For roof sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A153/A 153M or Type 304 stainless steel.

1) Nails, Brads, and Staples: ASTM F1667.

2) Power-Driven Fasteners: NES NER-272.

3) Wood Screws: ASME B18.6.1.

b. Screws for Fastening Wood Structural Panels to Cold-Formed Metal Framing: ASTM C954, except with wafer heads and reamer wings, length as recommended by screw manufacturer for material being fastened.

1) For wall and roof sheathing panels, provide screws with organic-polymer or other corrosion-protective coating having a salt-spray resistance of more than 800 hours according to ASTM B117.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:

1. Verify that roof openings and penetrations are in place and curbs are set and braced and that roof drain bodies are securely clamped in place.

2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.

3. Remove deteriorated or unsuitable wood blocking, curbs, and nailers.

4. Replace existing wood components that exhibit signs of deterioration or other conditions detrimental to securement of roofing system components, including roof edge flashings.

a. Verify that perimeter nailers for copings and roof edge flashings are securely fastened according to ANSI/SPRI/FM 4435 ES-1, and applicable code, to resist uplift pressures.

5. Verify that substrate is sound and dry.

6. If broken or loose fasteners that secure deck panels to one another or to structure are observed or if deck appears or feels inadequately attached, immediately notify Owner. Do not proceed with installation until directed by Owner.

7. Unsuitable Deck: If deck surface is not suitable for receiving new roofing or if structural integrity of deck is suspect, immediately notify Owner. Do not proceed with installation until directed by Owner.

9. Steel Roof Deck Roofs L3 and L4:

a. Verify that deck is securely fastened and properly supported with no projecting fasteners and with no adjacent units in excess of 1/16 inch (1.6 mm) out of plane relative to adjoining deck.

10. Wood Roof Deck Roofs B, C, D, E, F, G, and J:

a. Verify that deck shows no signs of damage, rot or deterioration, and is securely fastened with no projecting fasteners and with no adjacent units in excess of 1/16 inch (1.6 mm) out of plane relative to adjoining deck.

11. Concrete Roof Deck Roof K:

a. Verify that concrete substrate is visibly dry and free of moisture. Test for moisture according to ASTM F2659 or other recognized test method utilizing non-destructive, electronic moisture meter.

b. Verify adhesion of new roofing components to concrete.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 DECK REPAIR/REPLACEMENT (IF APPLICABLE)

A. Repair existing deck to provide smooth working surface for installation of roof system.

1. Replace deck that cannot be repaired to sound condition.

B. Metal Deck Reattachment:

1. Mechanically reattach loose sections of deck to steel support members 12 inches (300 mm) on center (at every other rib) and 6 inches (150 mm) on center (at every rib) in roof corner and roof perimeter areas.

2. Side Laps: Mechanically fasten 18 inches (450 mm) on center.

3. Mechanically fasten steel deck to supporting member at each deck side lap, regardless of spacing.

4. Overlap steel deck end laps minimum 2 inches (50 mm); mechanically attach at the above listed factors.

C. Metal Deck Replacement:

1. Remove defective metal decking and examine supports; if supports are unsound, notify Owner and obtain direction before proceeding with deck replacement.

2. Install new metal decking in accordance with SDI, Design Manual for Composite Decks, Form Decks, Roof Decks

D. Concrete Deck Repair:

1. Remove spalled or deteriorated deck areas until sound base is reached.

2. Apply bonding agent and install patching mortar in accordance with manufacturer's instructions.

3. Allow patching mortar to fully set.

E. Wood Roof Deck Replacement:

1. Install solid-sawn wood decking to match existing deck construction and to comply with applicable code.

5. Wood Sheathing Panels: Comply with applicable recommendations in APA Form No. E30, "Engineered Wood Construction Guide," for types of structural-use panels and applications indicated.

3.3 PREPARATION

A. Remove existing roofing and protect existing building during roof removal.

B. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.

C. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

D. Verify that rooftop utilities and service piping affected by the Work have been shut off before commencing Work.

E. Shut down air intake equipment in the vicinity of the Work in coordination with the Owner. Cover air intake louvers before proceeding with roofing work that could affect indoor air quality or activate smoke detectors in the ductwork.

3.4 INSTALLATION, GENERAL

A. Install roofing system in accordance with manufacturer’s written instructions and approved details.

B. Install wood blocking, curbs, and nailers in accordance with requirements of Division 06 Section "Miscellaneous Rough Carpentry."

C. Cooperate with testing agencies engaged or required to perform services for installing roofing system.

3.5 ROOFING INSTALLATION DETAILS

A. NRCA Installation Details: Install roofing system in accordance with applicable NRCA Manual Plates and NRCA recommendations; modify as required to comply with manufacturer's approved details.

3.6 INSULATION AND INSULATION ACCESSORIES INSTALLATION

A. Comply with roofing manufacturer's and insulation manufacturer’s written instructions for installing roof insulation.

B. Coordinate installing membrane roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.

C. Tapered Insulation and Crickets: Install tapered insulation under area of roofing to conform to slopes indicated.

1. Where crickets are indicated or required to provide positive slope to drain, make slope of crickets minimum of two times the roof slope, not less than 1/4 inch in 12 inches (1:48).

D. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch (6 mm) with insulation.

1. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.

E. Install insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2.7 inches (70 mm) or greater, install two or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches (150 mm) in each direction.

1. Flat Insulation System on Sloped Roof Deck Roofs E, G, J: Install insulation at minimum thickness as follows:

a. Minimum total thickness of Continuous Insulation= R20.

2. Tapered Insulation System for Flat Roof Deck Roofs B, C, D, F, K, L3, L4 : Install insulation as follows:

a. Roof Sections C, D, F: 1/8”/foot tapered insulation. Base insulation starting height: 1.5”

b. Roof Sections K, B, L3, L4: ¼”/foot tapered insulation. Base insulation starting height: 1.5”

F. Install tapered edge strips at perimeter edges of roof that do not terminate at vertical surfaces.

G. Insulation Installation Method:

1. Adhered Insulation Application Method at Roof K: Install each layer of insulation and adhere to substrate as follows:

a. Adhere insulation to resist uplift pressure at corners, perimeter, and field of roof.

1) Set each layer of insulation in continuous ribbons of bead-applied insulation adhesive at 12 inch o.c., firmly pressing and maintaining insulation in place.

2. Mechanically Fastened Insulation Application Method Roofs B, C, D, E, F, G, J: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.

a. Fasten insulation preliminarily, to secure insulation in place until subsequent materials are installed and mechanically fastened through insulation to deck.

b. Min. 4 fasteners per 4x8 board. Refer to FM Loss Prevention Data Sheet 1-29 for preliminary attachment.

3. Mechanically Fastened Insulation Application Method Roofs L3 & L4: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.

    a. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof.

    b. Secure using 1 fastener per 2.0 sq. ft. Min. 0.75 in. penetration.

H. Cover Board Installation:

1. Comply with roofing system and cover board manufacturer's written installation instructions.

2. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches (150 mm) in each direction. Loosely butt cover boards together. Tape joints if required by roofing manufacturer.

    a. Trim cover board neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.

    b. Trim cover board, so that water flow is unrestricted.

    c. Cut and fit cover board tight to nailers, projections, and penetrations.

3. Adhere cover boards to resist uplift pressure at corners, perimeter, and field of roof at Roofs K, L3 & L4.

    a. Set cover boards in continuous ribbons of bead-applied insulation adhesive at 12 inch o.c., firmly pressing and maintaining cover in place.

4. Mechanically fasten cover boards to resist uplift pressure at corners, perimeter, and field of roof at Roofs, B, C, D, E, F, G, J.

    a. Secure using 1 fastener per 2.0 sq. ft. Min. 1 inch embedment into plank.

3.7 ADHERED MEMBRANE ROOFING INSTALLATION

A. Adhere membrane roofing over area to receive roofing and install according to membrane roofing system manufacturer's written instructions.

B. Start installation of membrane roofing in presence of membrane roofing system manufacturer's technical personnel.

C. Accurately align membrane roofing and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.

D. Solvent-Based Bonding Adhesive: Apply to substrate and underside of membrane roofing at rate required by manufacturer and allow adhesive to become tacky before installing membrane

roofing; do not allow adhesive to fully dry. Roll membrane into adhesive. Do not apply adhesive to splice area of membrane.

E. Apply membrane roofing with side laps shingled with slope of roof deck where possible.

F. Welded Seams: Clean seam areas, overlap membrane roofing, and hot-air weld side and end laps of membrane roofing and sheet flashings according to manufacturer's written instructions to ensure a watertight seam installation.

1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of sheet membrane.

2. Verify field strength of seams a minimum of twice daily and repair seam sample areas.

3. Repair tears, voids, and lapped seams in roofing that does not comply with requirements.

G. Spread sealant bed over deck drain flange at roof drains and securely seal membrane roofing in place with clamping ring.

3.8 BASE FLASHING INSTALLATION

A. Membrane Flashings: Install sheet flashings and preformed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.

1. Apply bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply to seam area of flashing.

2. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.

3. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.

4. Seal top termination of base flashing with a metal termination bar and a continuous bead of joint sealant.

B. Extend base flashing up walls or parapets a distance of 8-12 inches (200-300 mm) above roofing and 6 inches (150 mm) onto field of roofing, unless otherwise recommended by roofing manufacturer.

1. Comply with roofing manufacturer’s and NRCA details.

3.9 PERIMETER METAL

At all Roof Sections designated for Roof Replacement, replace existing perimeter coping metal with new 24 ga. pre-finished perimeter coping metal. Secure flashing membrane to the exterior edge of the wood blocking (see detail drawing). Build up wood blocking to achieve minimum 6” flashing height. Where scuppers exist, replace with new 4” X 6” scuppers. Replace and fabricate new scupper inserts with soldered corners and flange. Add crickets in between each scupper and in corners to provide positive drainage.

3.10 WALKWAY INSTALLATION

A. Walkways, General: Install walkways according to roofing manufacturer's written instructions.

1. Install walkways at following locations:

b. Perimeter of each rooftop unit.

c. Between each rooftop unit location, creating a continuous path connecting rooftop unit locations.

d. Between each roof hatch and each rooftop unit location or path connecting rooftop unit locations.

e. Top and bottom of each roof access ladder.

f. Between each roof access ladder and each rooftop unit location or path connecting rooftop unit locations.

B. Flexible Walkways: Install walkway products in locations indicated. Heat weld to substrate or adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

3.11 FIELD QUALITY CONTROL

A. Roofing Inspector: Manufacturer’s technical representative to perform roof inspections and to prepare inspection reports.

B. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion.

1. Notify Owner 48 hours in advance of date and time of inspection.

C. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.

1. Additional inspections, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.12 PROTECTING AND CLEANING

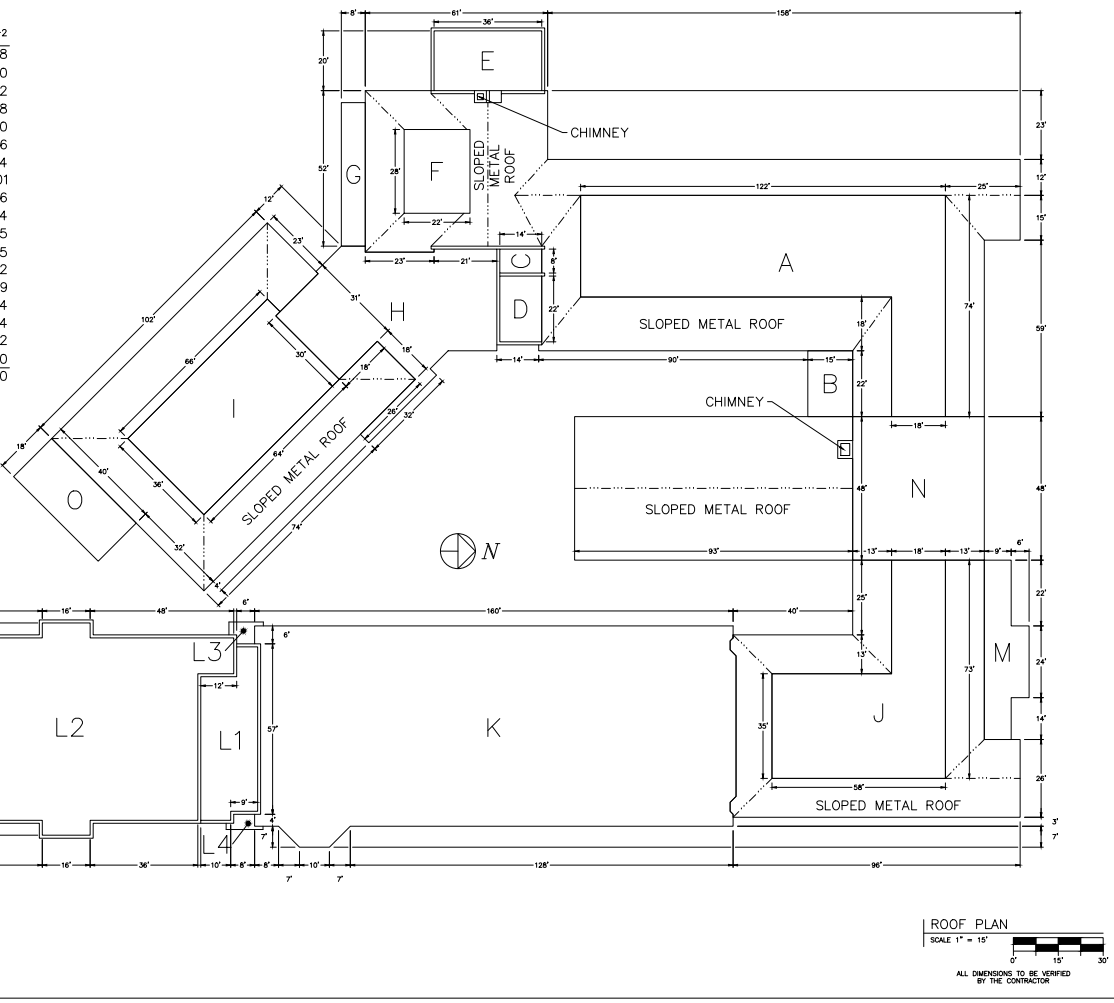
A. Protect membrane roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Owner.

B. Correct deficiencies in or remove membrane roofing system that does not comply with requirements; repair substrates; and repair or reinstall membrane roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 075416

ROOF	FT²
A	4,868
B	330
C	112
D	308
E	720
F	616
G	384
H	2,501
I	2,316
J	2,714
K	10,765
L1	955
L2	5,672
L3	59
L4	44
M	684
N	2,112
O	720
TOTAL	35,880



ROOF PLAN
SCALE 1" = 15'

ALL DIMENSIONS TO BE VERIFIED BY THE CONTRACTOR

REVISIONS	No.	DATE	BY

NOTES:

LEGEND:

- CORE
- DRAIN / OVERFLOW DRAIN
- SCUPPER / OVERFLOW SCUPPER
- EXPANSION JOINT / CONTROL JOINT
- HIDDEN LINE
- RIDGE LINE

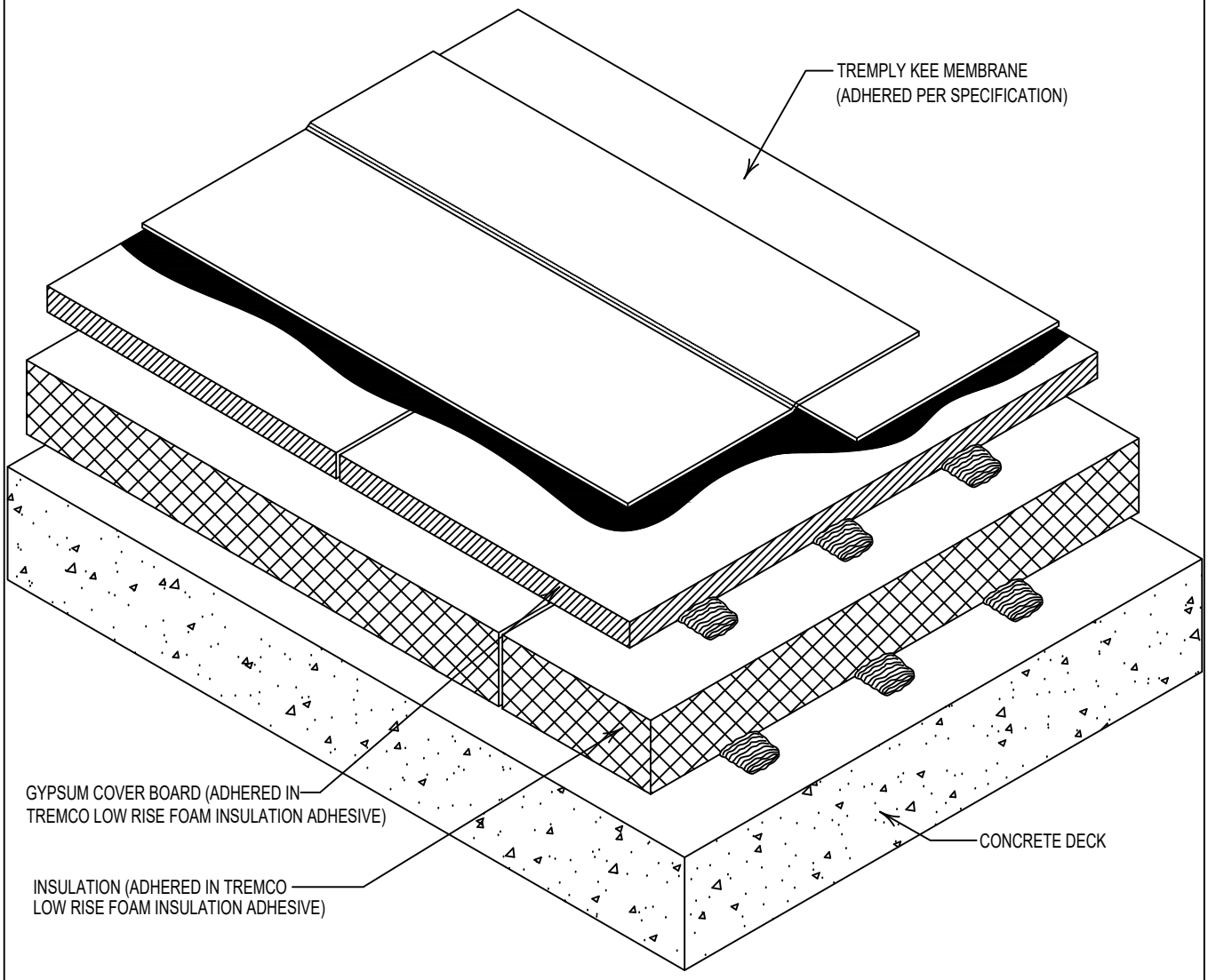
CUSTOMER: TULSA PUBLIC SCHOOLS

BUILDING: SPRINGDALE ELEMENTARY SCHOOL

LOCATION: TULSA, OKLAHOMA

FILE LOCATION & NAME

DRAWN BY	DATE DRAWN	AGREEMENT #
RLW	7/16/26	



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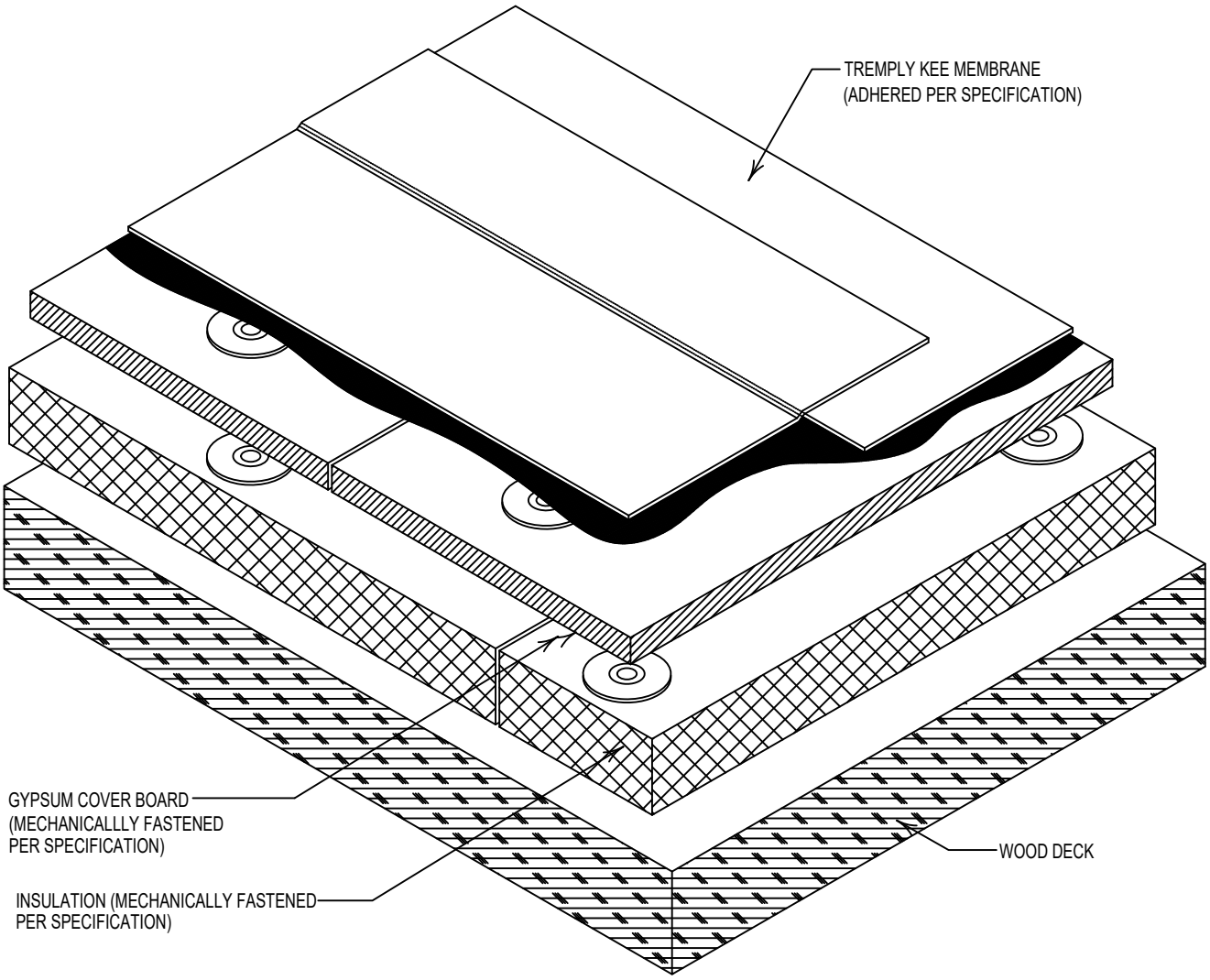
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MEMBRANE CROSS SECTION
(ADHERED INSULATION)
CONCRETE DECK

N.T.S.

TREMCO®
Roofing & Building Maintenance

2023



NOTES

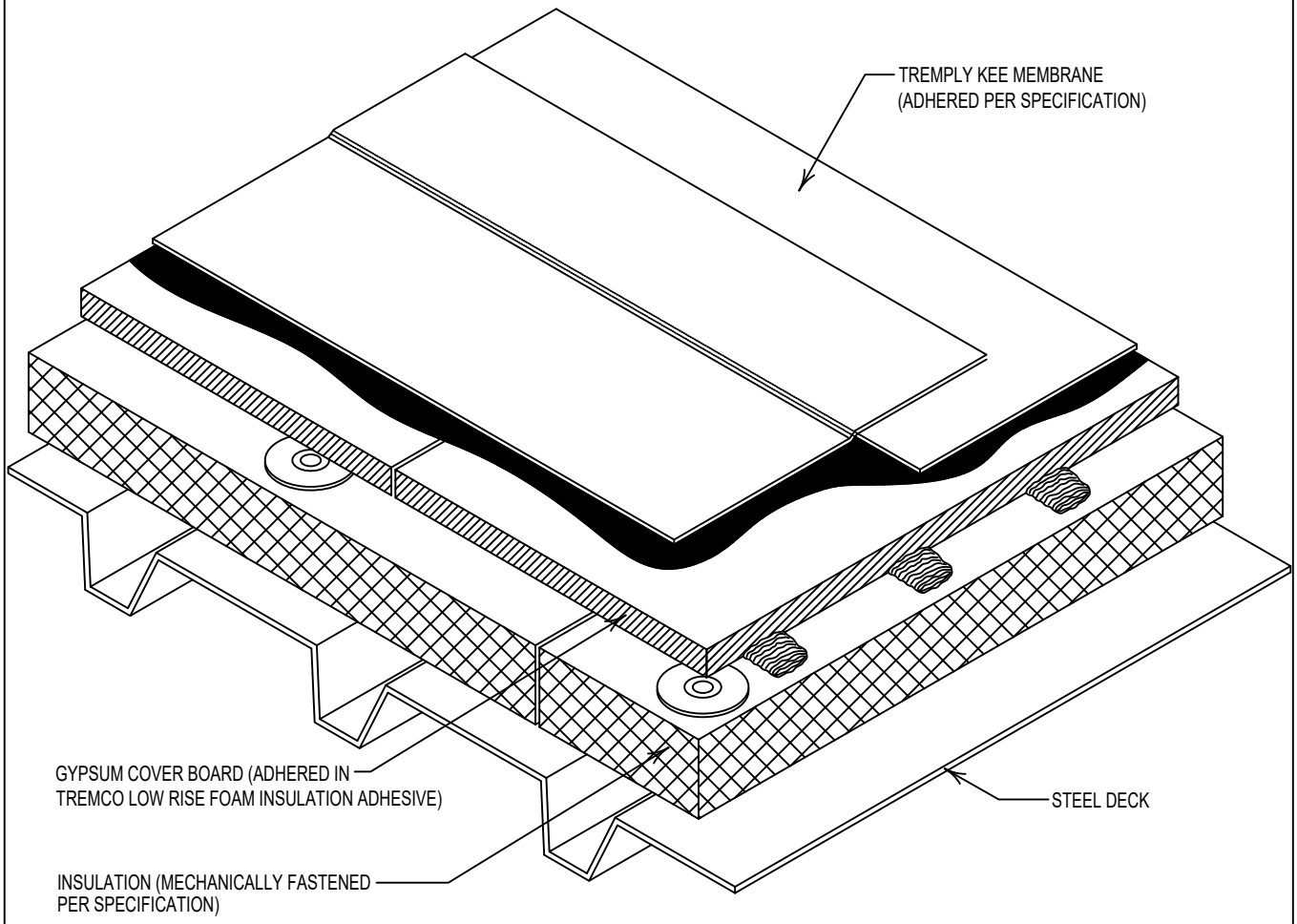
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MEMBRANE CROSS SECTION
(MECHANICALLY FASTENED INSULATION)
WOOD DECK

N.T.S.

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NOTES

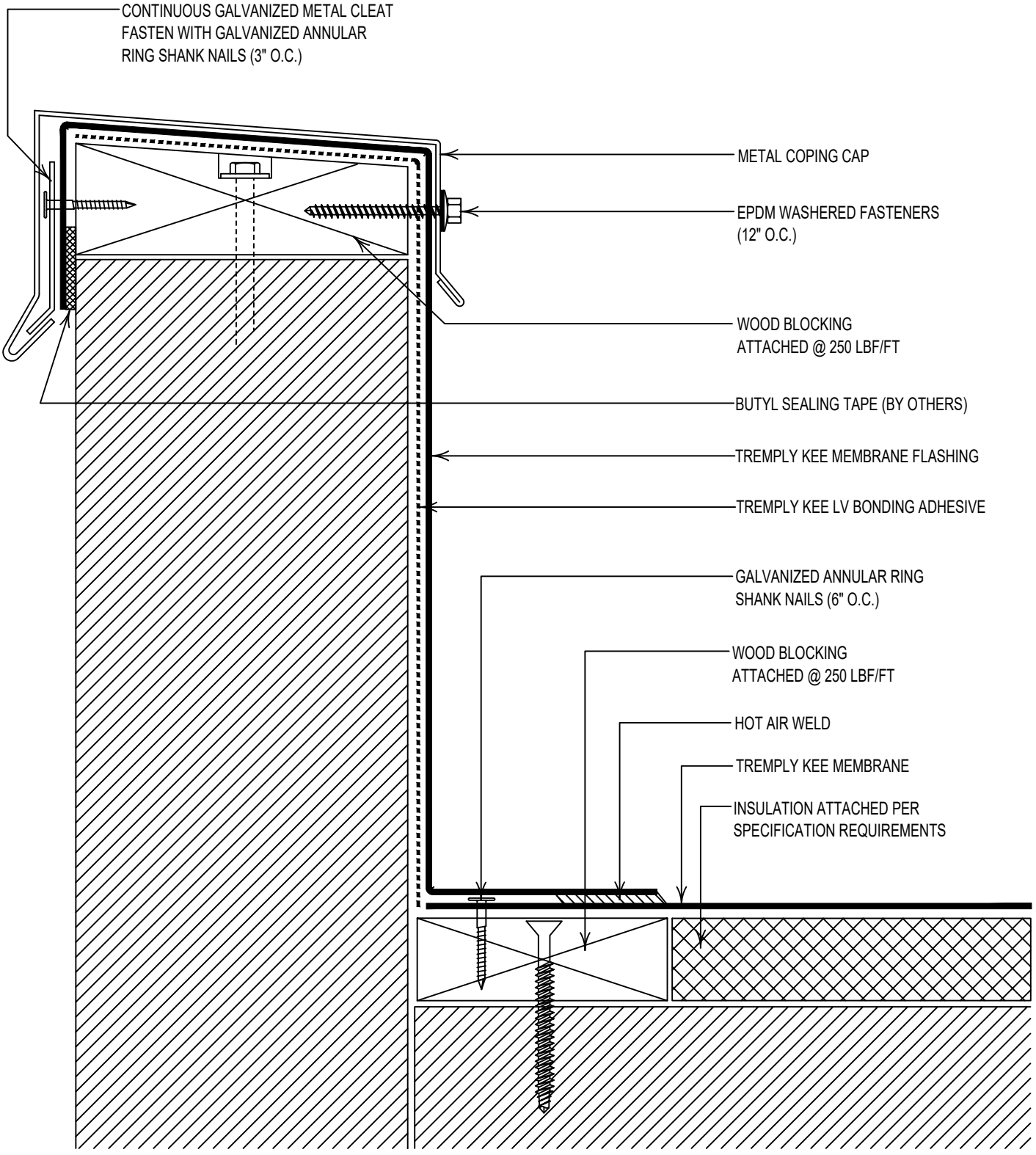
1. BOTTOM LAYER OF INSULATION SHALL BE LAID DOWN IN A STAGGERED PROFILE. STAGGER AND OFFSET TOP LAYER OF INSULATION FROM BOTTOM LAYER TO PREVENT ALIGNED EDGES.

MEMBRANE CROSS SECTION
(MECHANICALLY FASTENED INSULATION)
STEEL DECK

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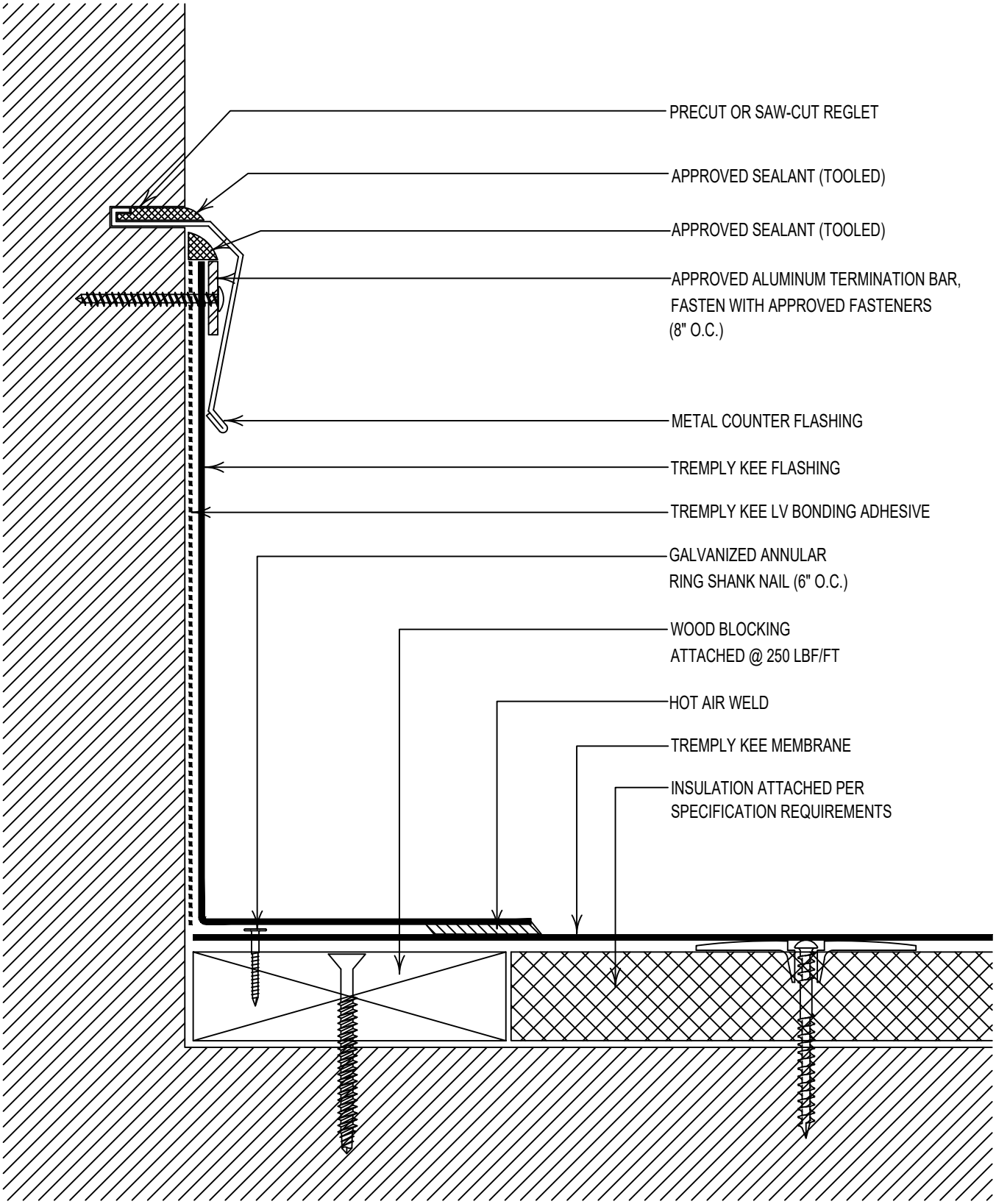


TREMPLY KEE
WALL FLASHING
WITH METAL CAP FLASHING

DWG NO. 08 N.T.S.

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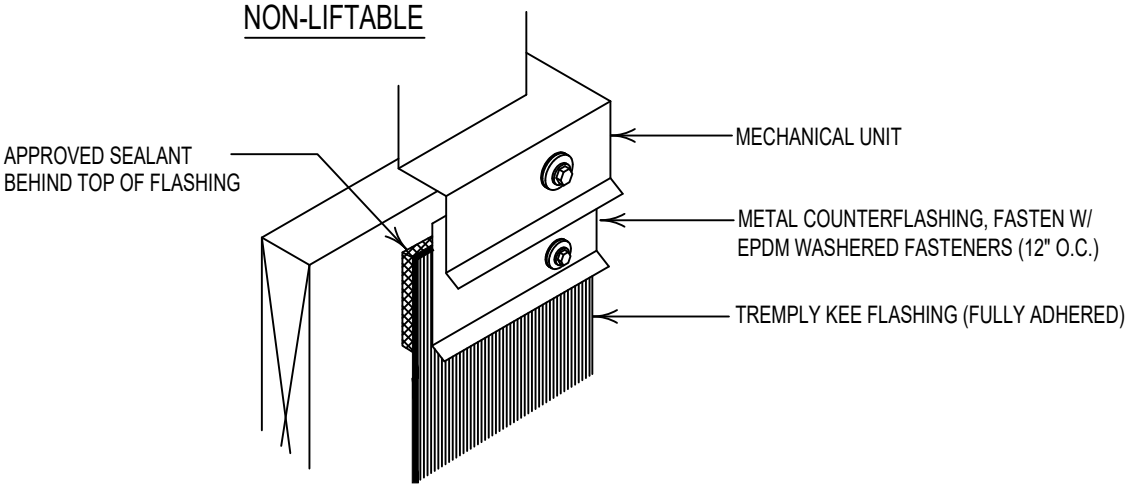
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TYPICAL "MEMBRANE" WALL
FLASHING HORIZONTAL BLOCKING
WITH SAWCUT REGLET

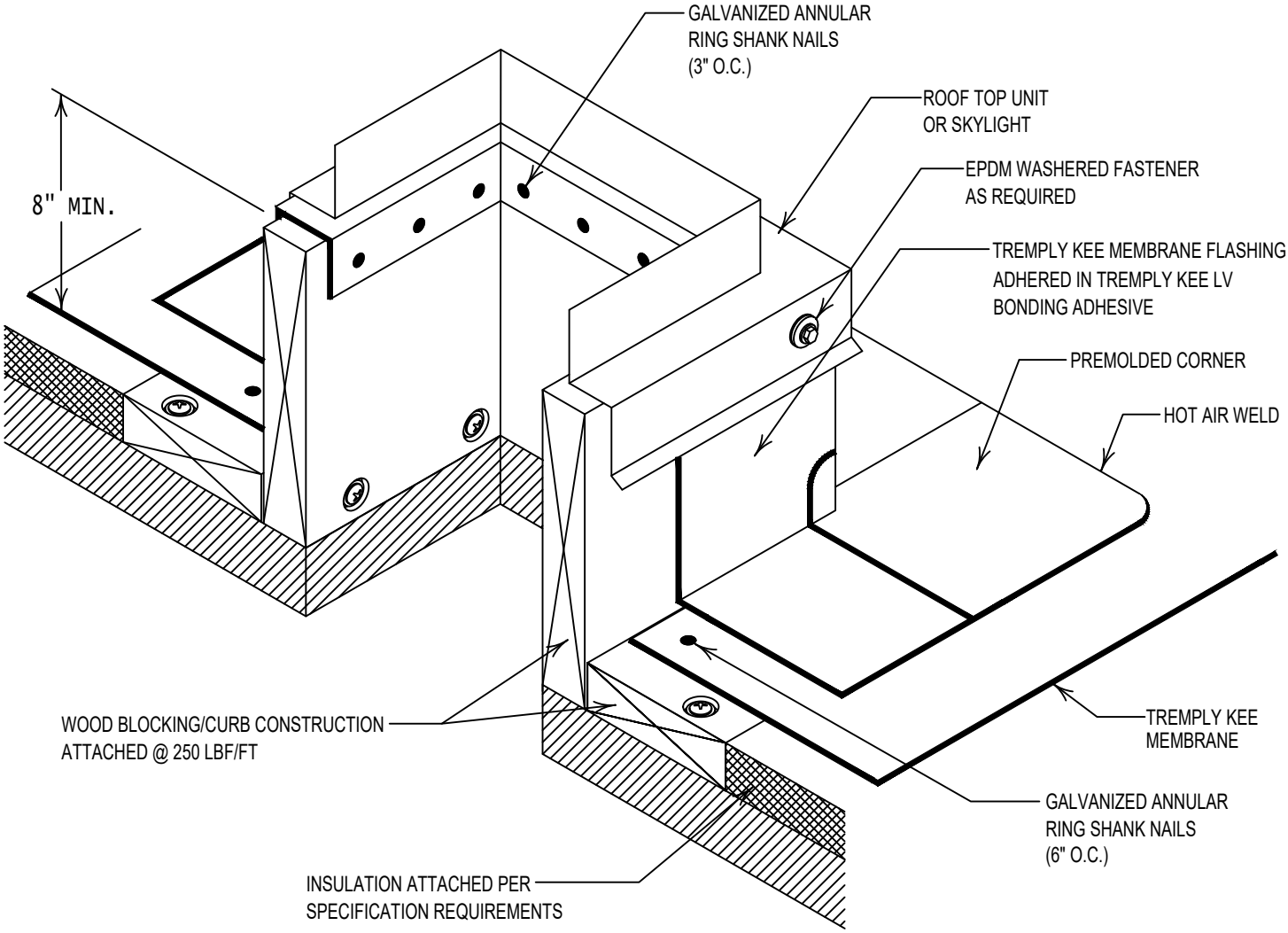
SCALE:
NTS

DRAWING No.:
DWG NO. 115

2023

NON-LIFTABLE

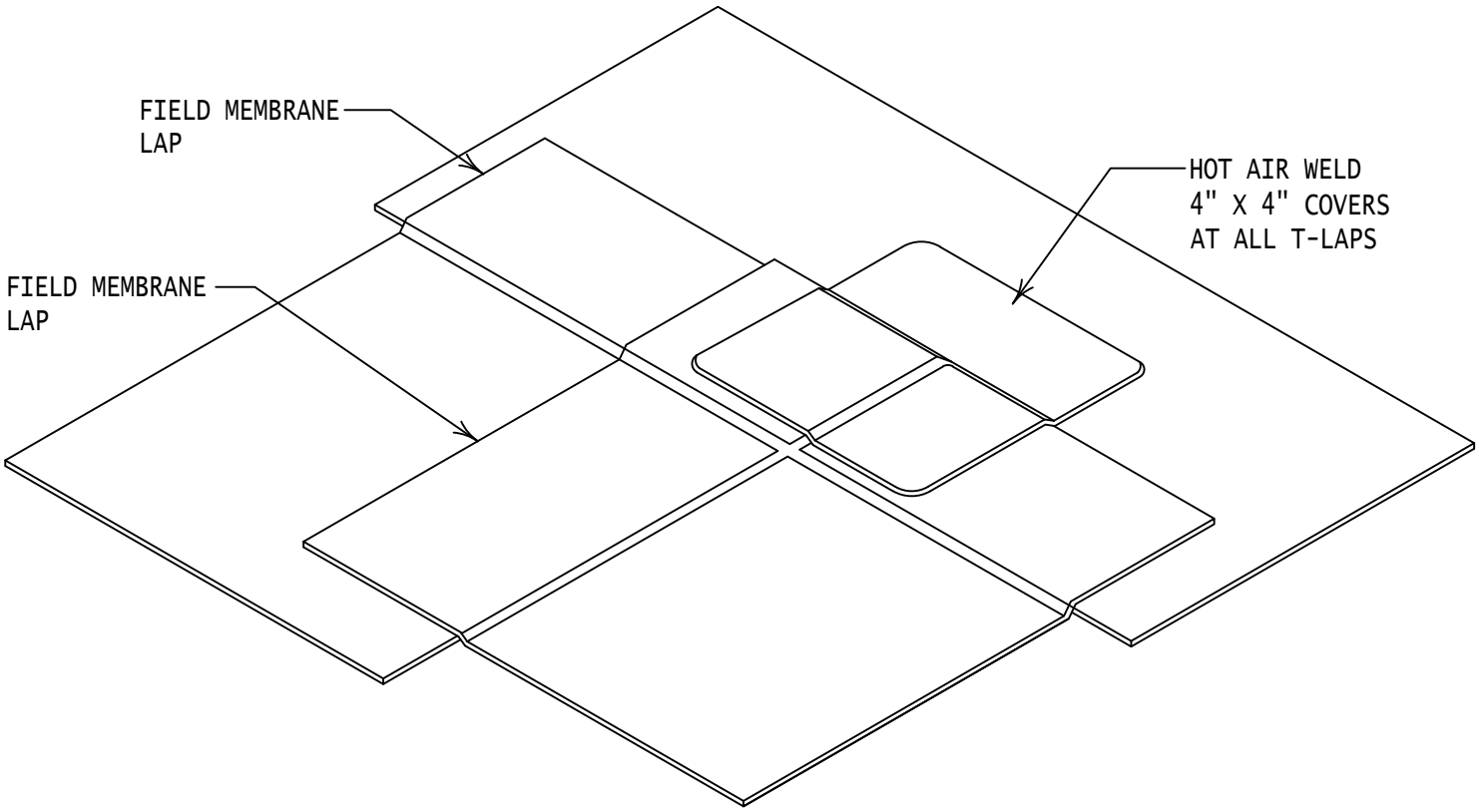


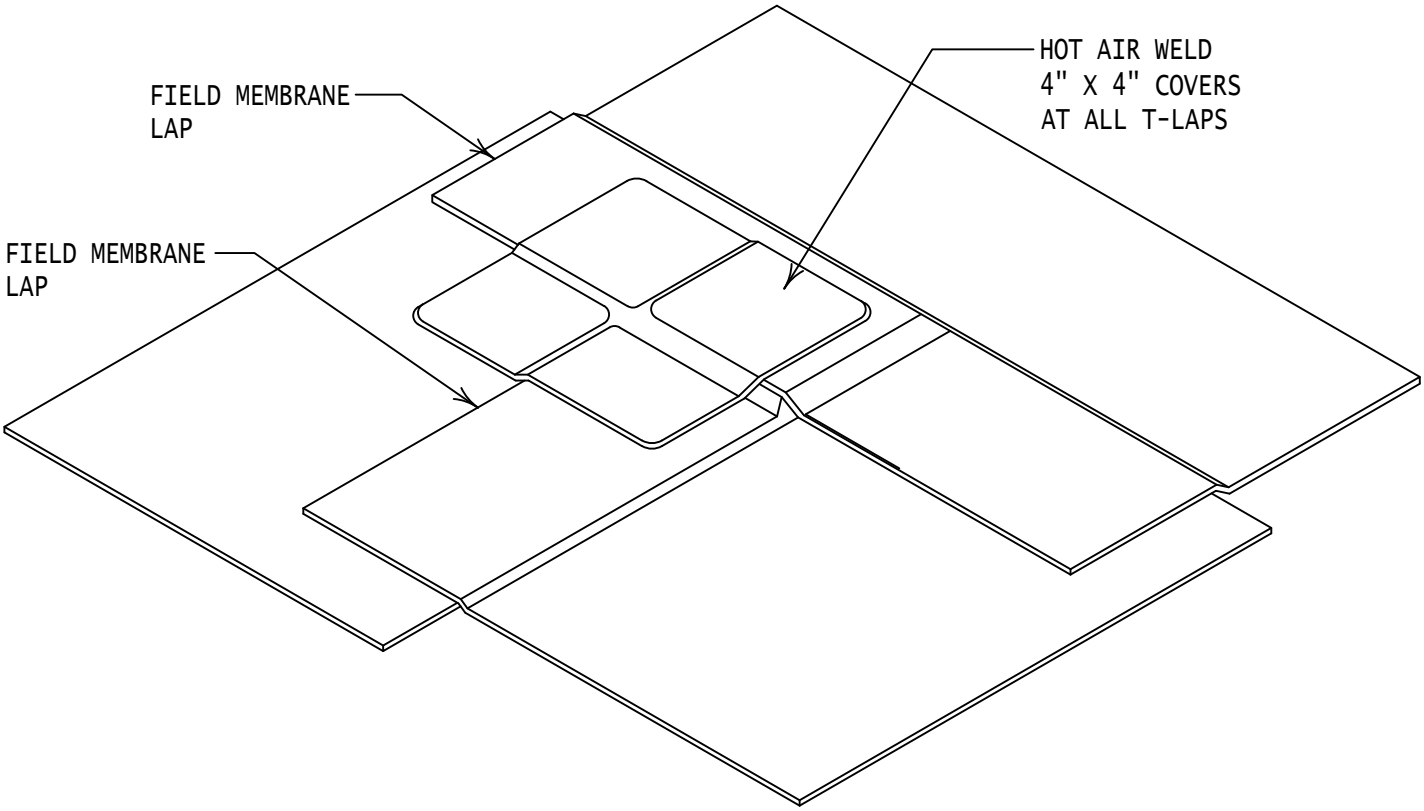


TREMPLY KEE
TYPICAL WOOD OR SKYLIGHT CURB FLASHING
DWG NO. 06 N.T.S.

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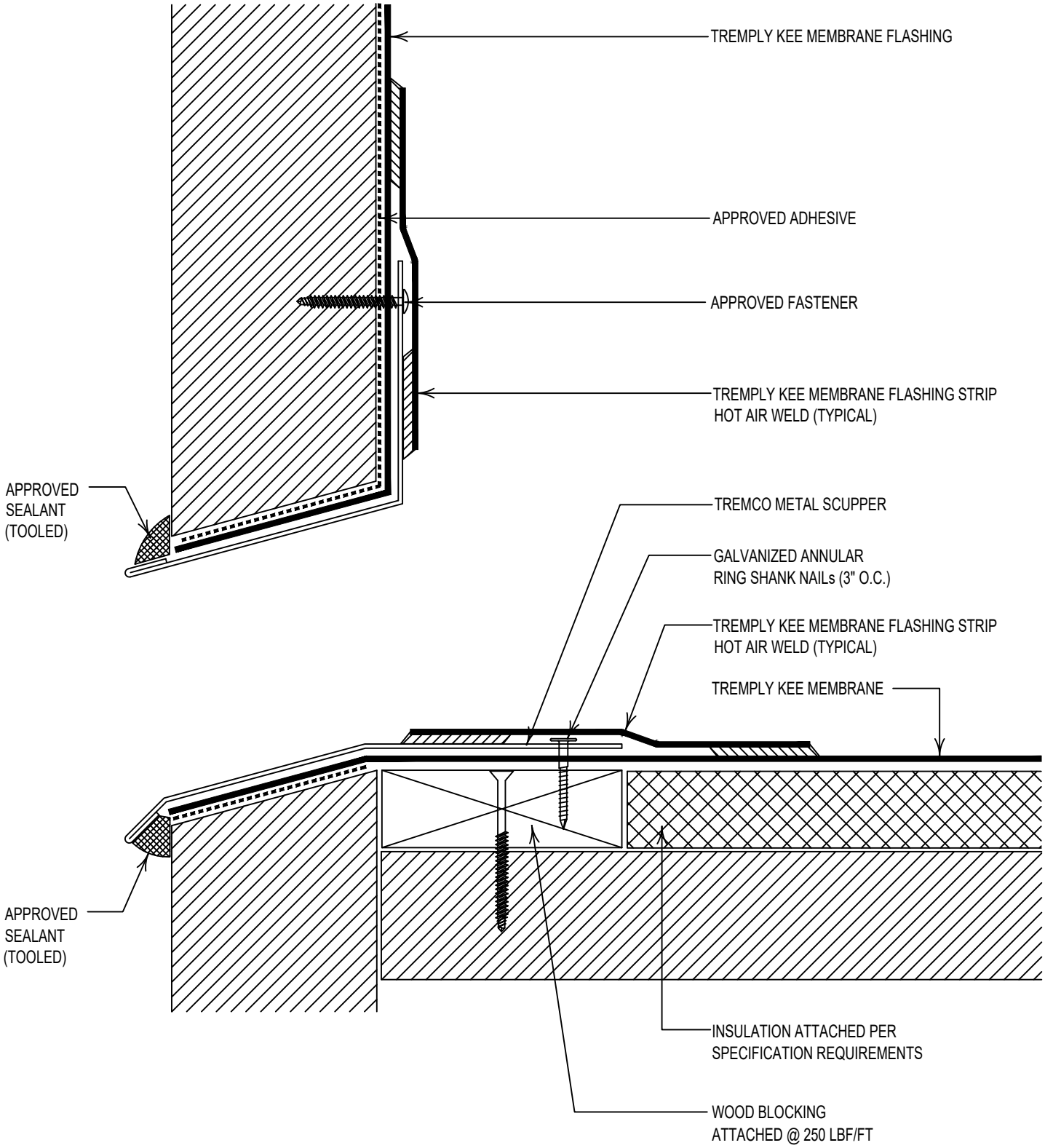
TREMCO
Roofing & Building Maintenance

SHEET TITLE:
TYPICAL COVERS AT
MEMBRANE T-LAPS

SCALE:
NTS

DRAWING No.:
DWG NO. 111

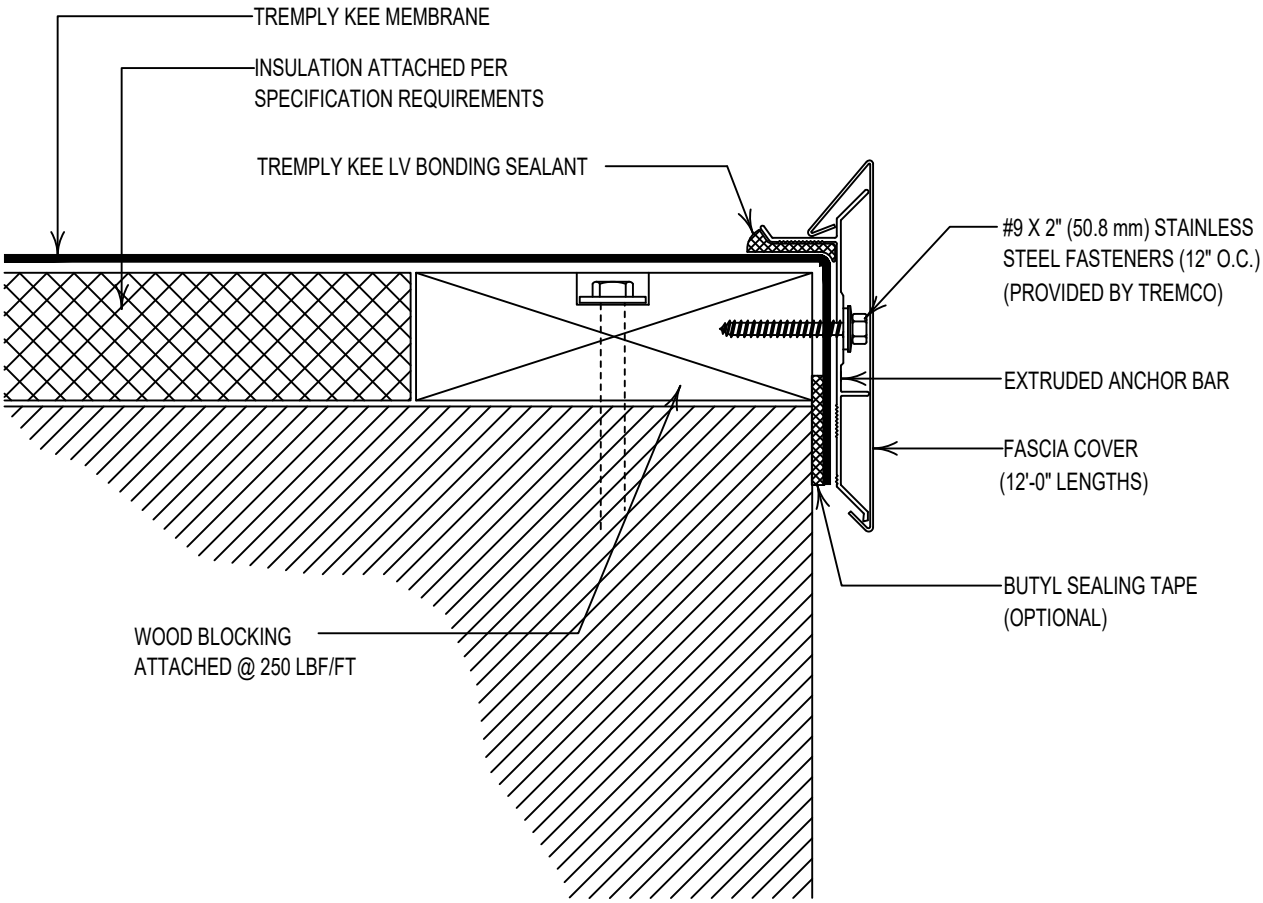
2023



TREMPLY KEE
TYPICAL SCUPPER FLASHING
DWG NO. 24 N.T.S.

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NOTES

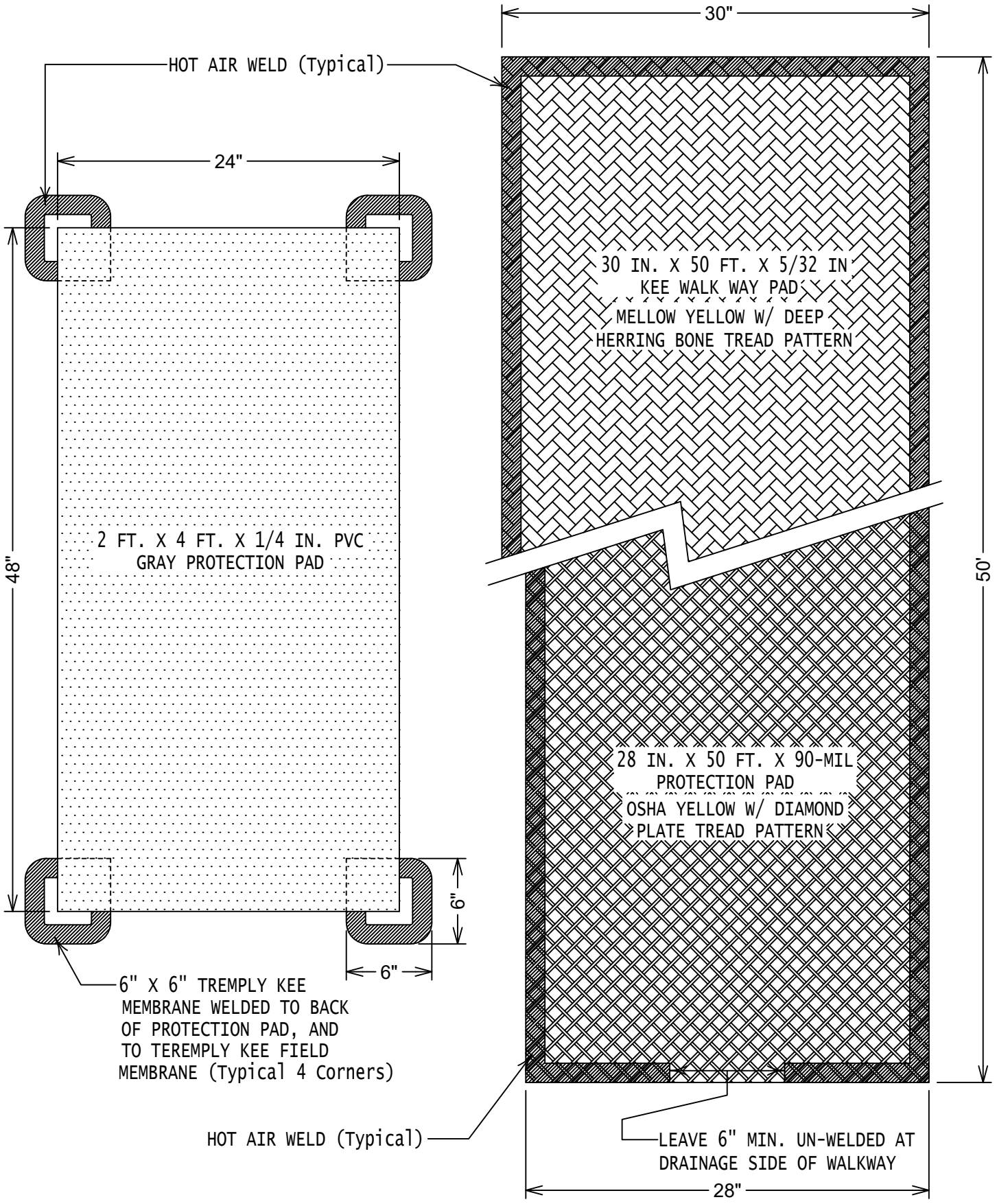
1. INSTALL PRE-MANUFACTURED EDGE SYSTEM PER SPECIFICATIONS AND TREMPLY KEE'S INSTALLATION REQUIREMENTS.

TREMPLY KEE
TREMPLY KEE AT FASCIA SYSTEM
(STANDARD FASCIA EDGE)

DWG NO. 04 N.T.S.

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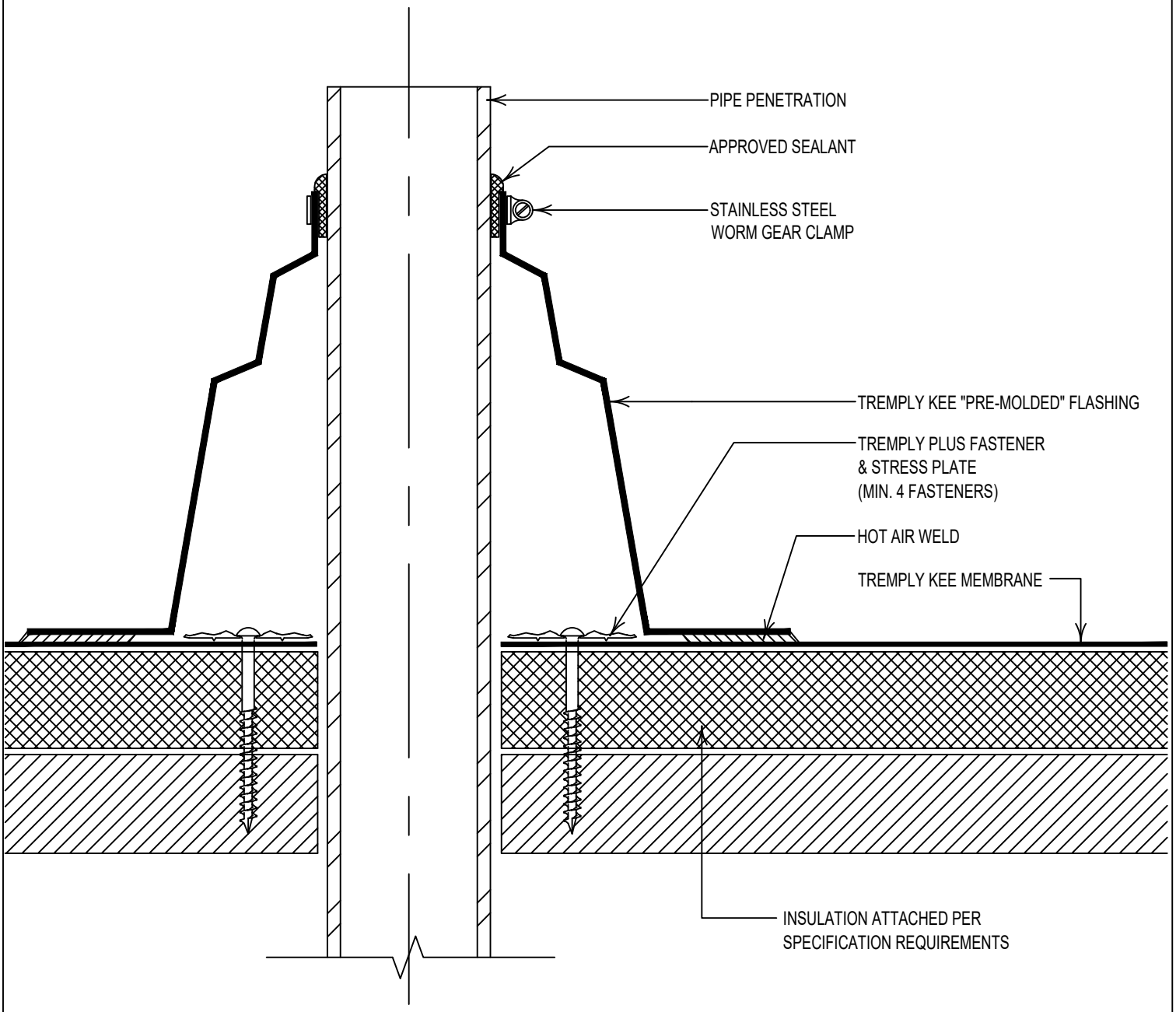
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SHEET TITLE:
PROTECTION PAD &
WALKWAY MATERIALS

SCALE:
NTS

DRAWING No.:
DWG NO. 80

2023



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SHEET TITLE:

PRE-MOLDED PIPE FLASHING

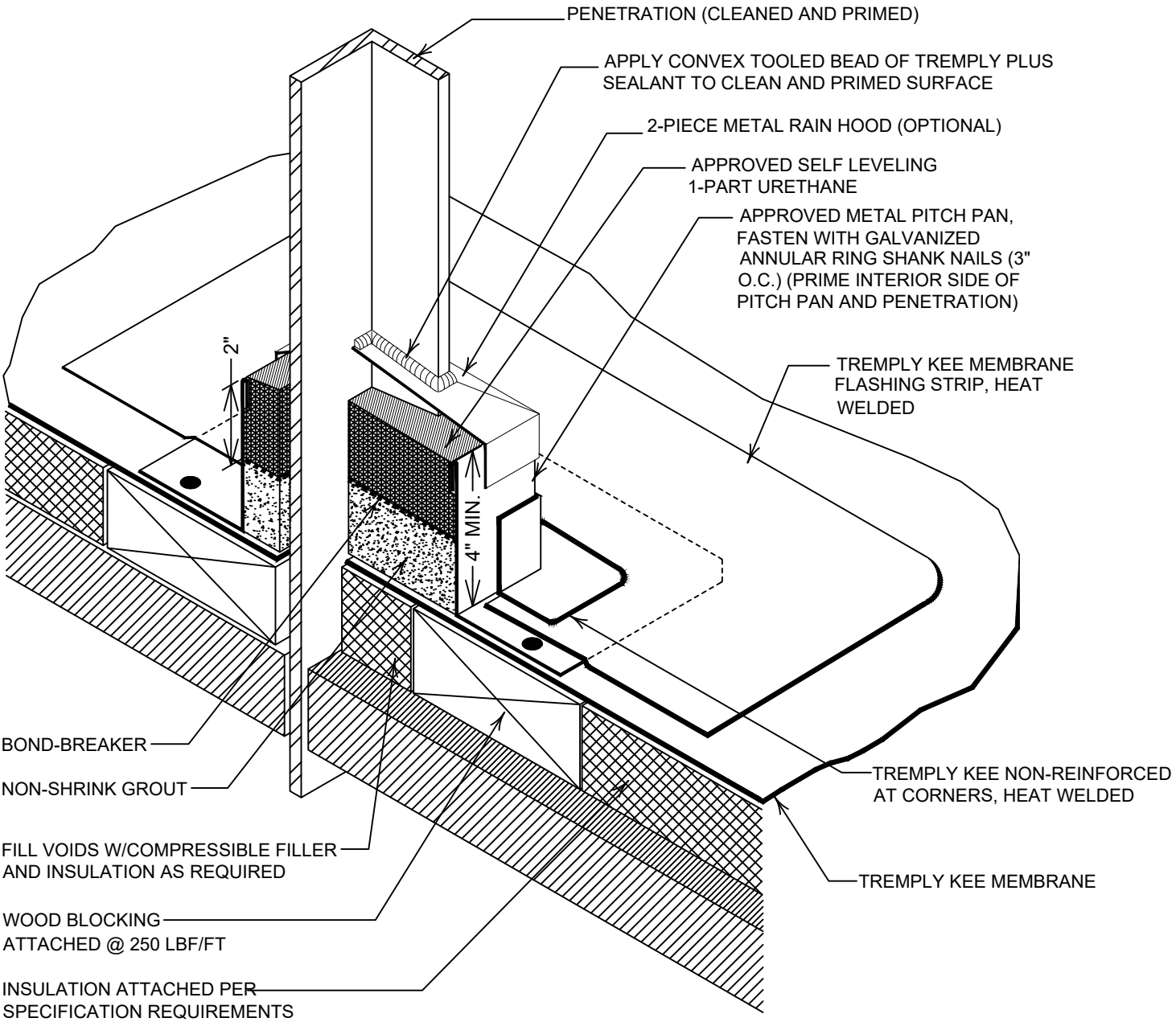
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DRAWING No.:

DWG NO. 78

2023



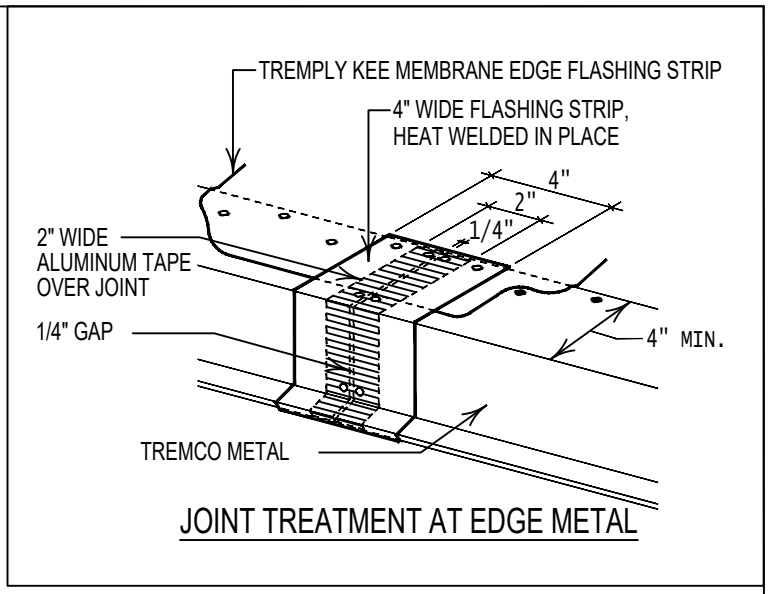
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SHEET TITLE:
PITCH PAN FLASHING

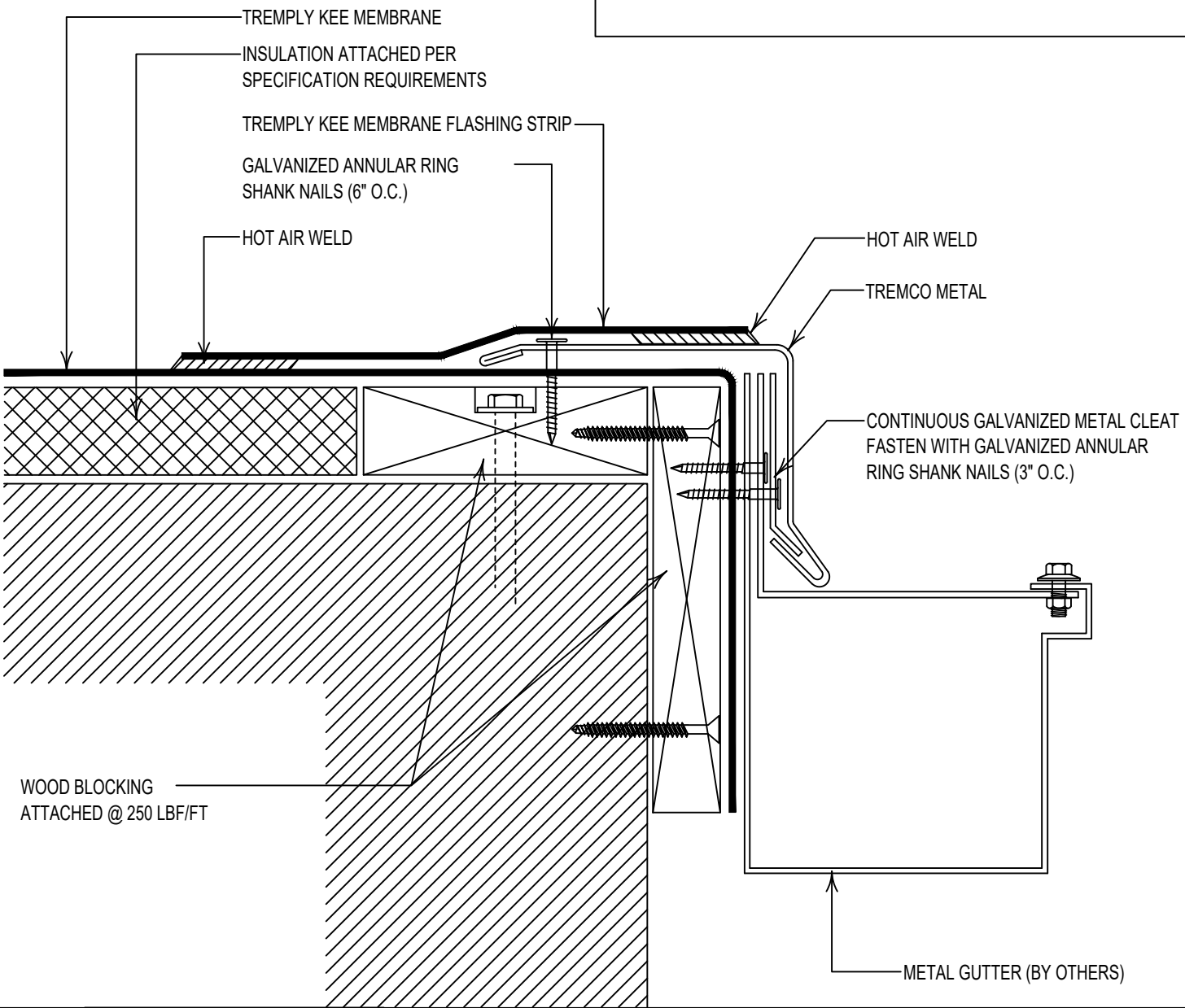
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DRAWING No.:
DWG NO. 74

2023



JOINT TREATMENT AT EDGE METAL



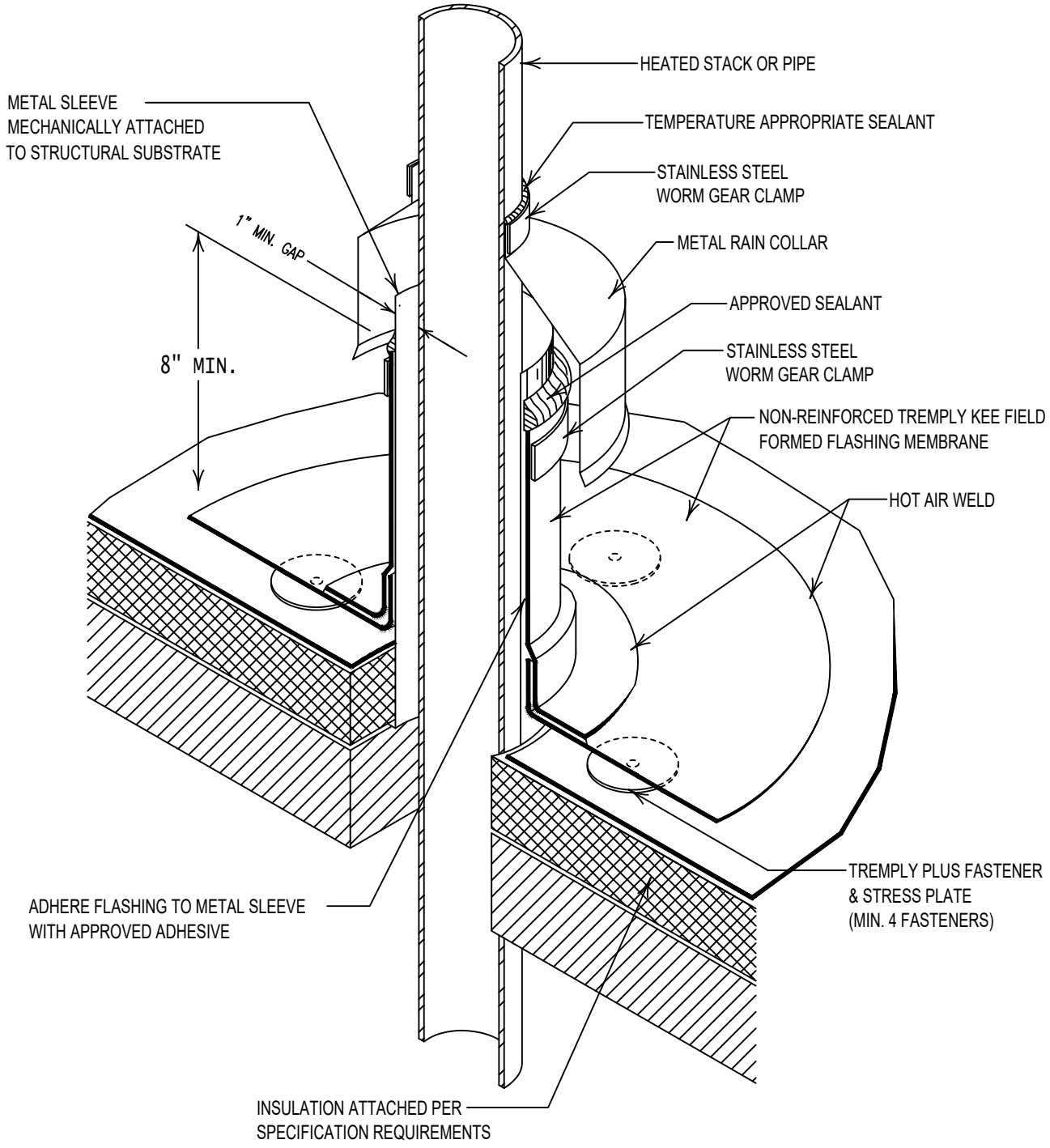
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SHEET TITLE:
GUTTER FLASHING

SCALE:
NTS

DRAWING No.:
DWG NO. 53

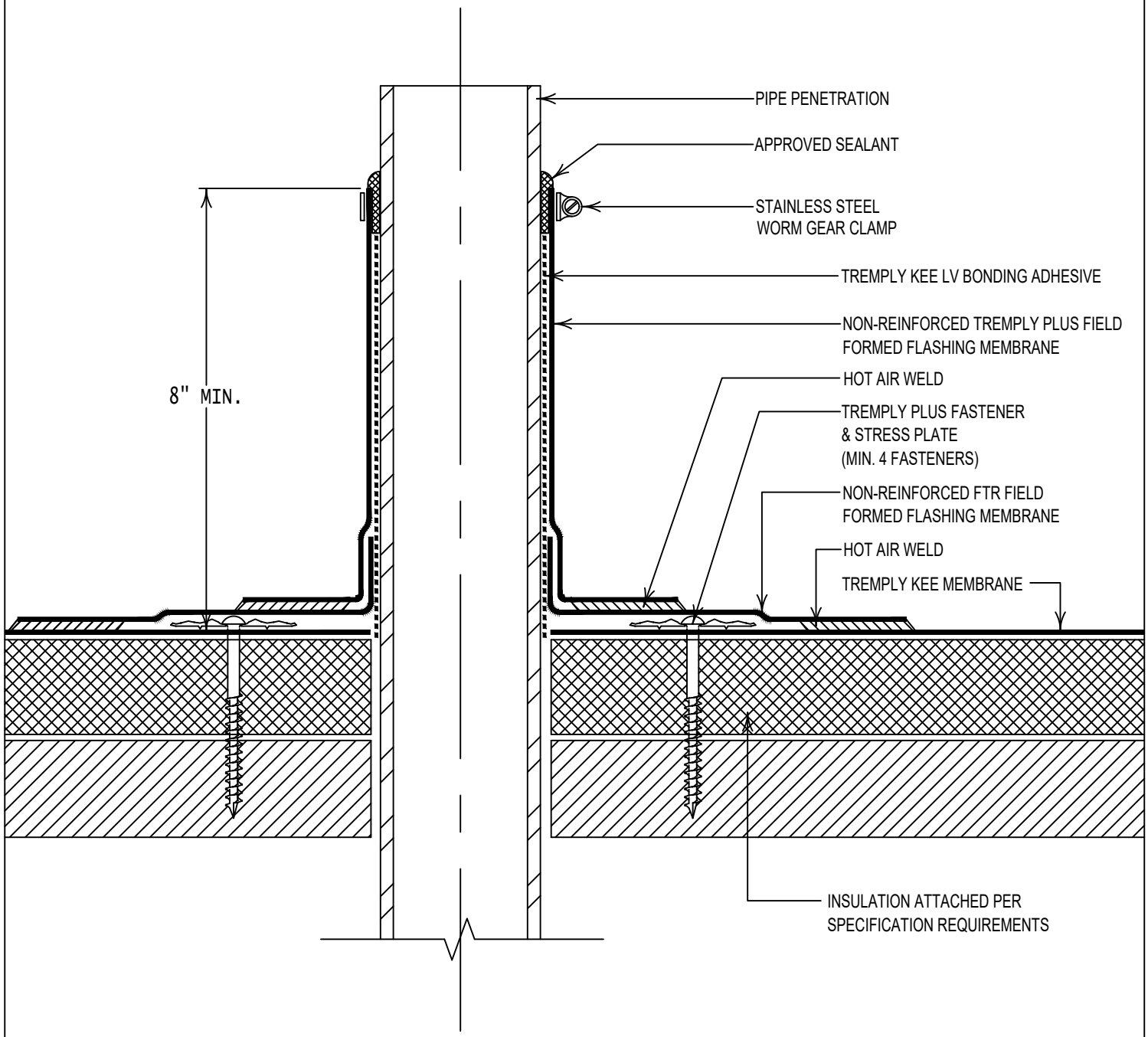
2023



TREMPLY KEE
HEATED STACK FLASHING WITH METAL COLLAR
DWG NO. 16 N.T.S.

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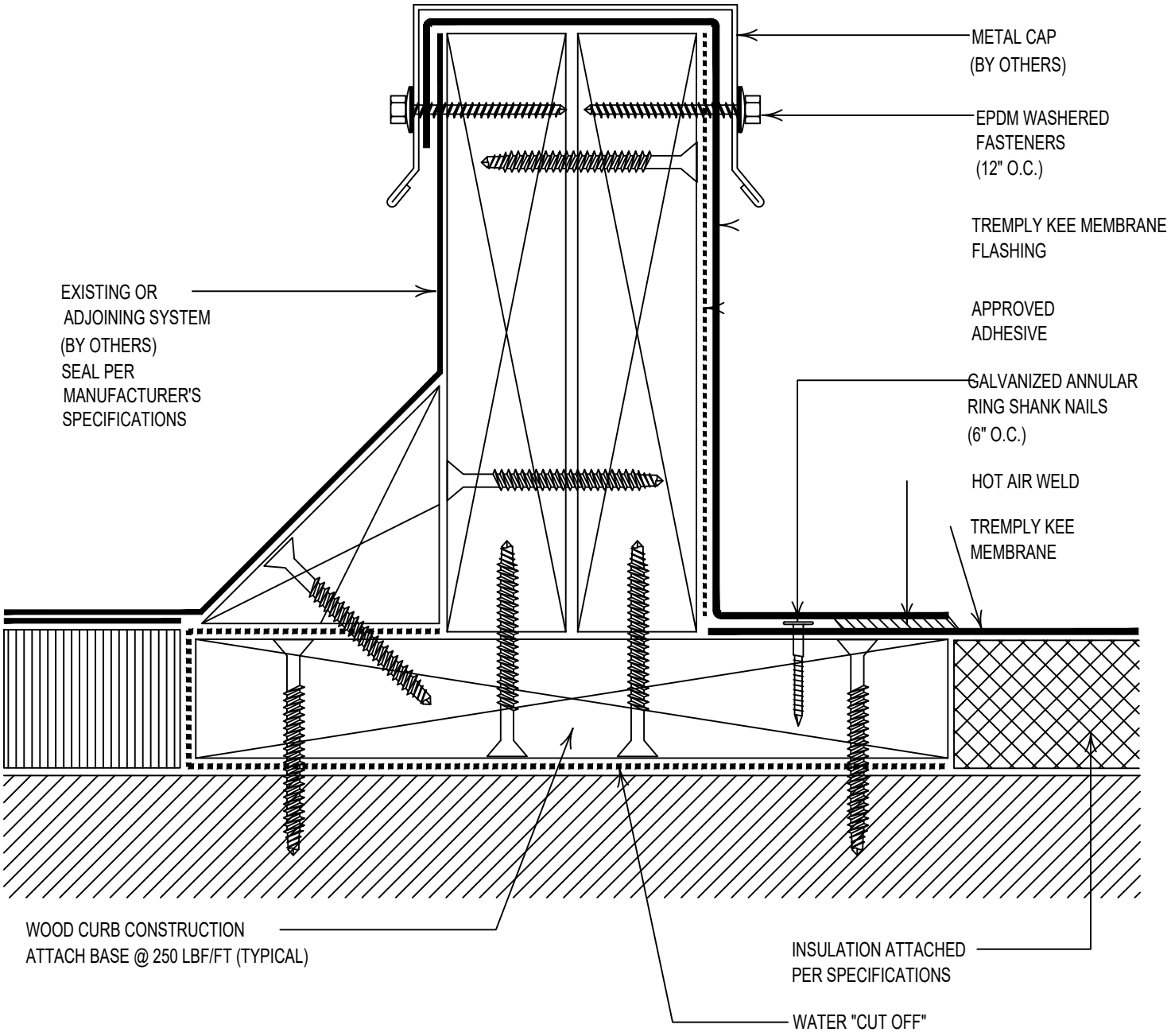
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TREMPLY KEE
FIELD FABRICATED PIPE FLASHING
DWG NO. 10 N.T.S.

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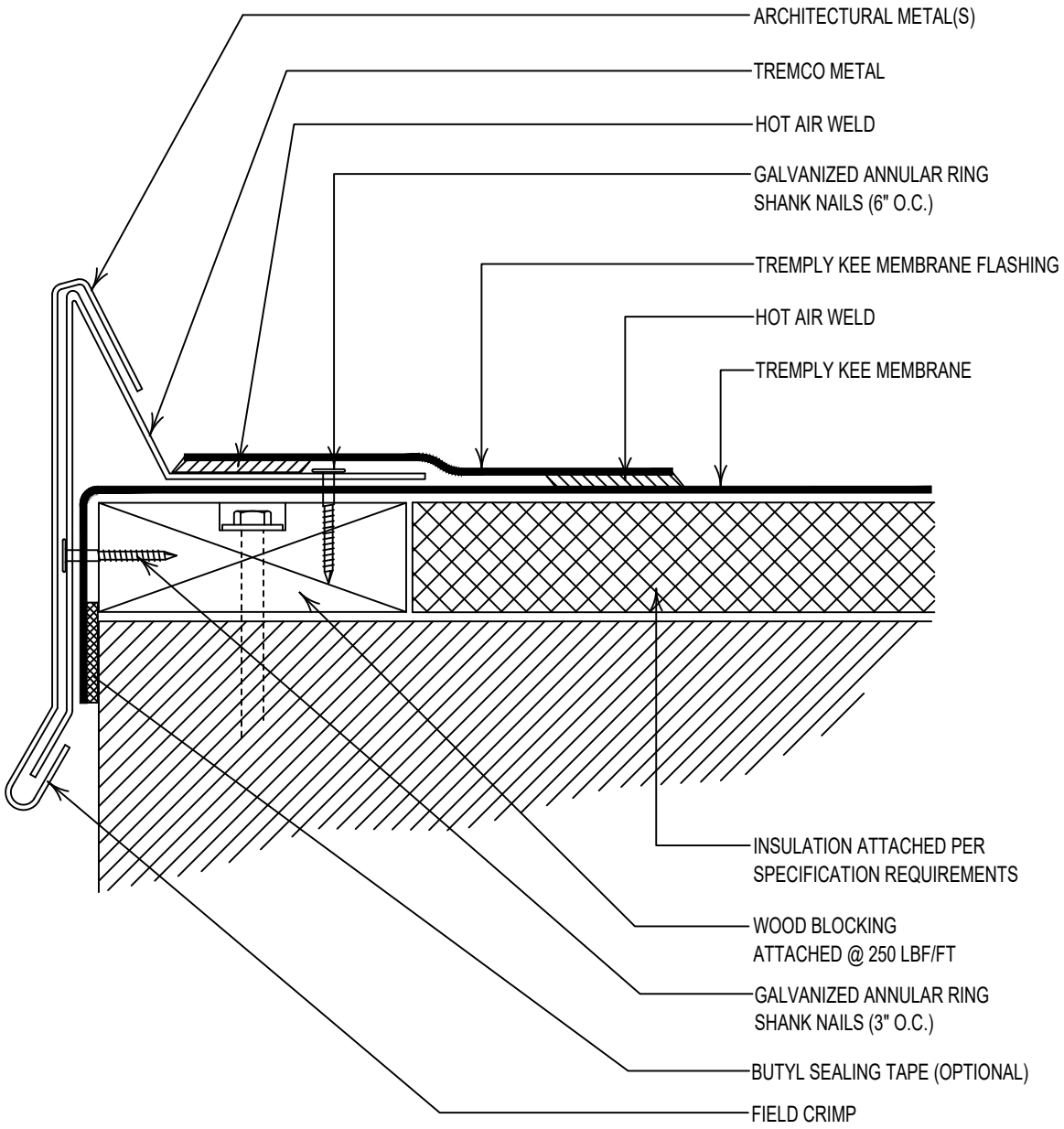
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SHEET TITLE:
FLASHING "TIE IN" TO
EXISTING ROOF SYSTEM

SCALE:
NTS

DRAWING No.:
DWG NO. 29

2023



TREMPLY KEE
ARCHITECTURAL METAL FASCIA WITH
TREMPLY KEE METAL CLAD

DWG NO. 09 N.T.S.

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