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**Addendum No. 1 December 13, 2024**

**Craft Center Upgrades**

**Tennessee Technological University**

**Cookeville, Tennessee**

**SBC 364/031-01-2023**

The following items take precedence over that previously specified for the referenced project.

**Revisions and Clarifications to the Drawings or to the Project Manual:**

1. In Section 00-22-13 Supplementary Instructions to Bidders, Andy Loftis is listed as the TTU Construction Representative. Andy Loftis has retired from TTU. The new Construction Representative will be Rick Windrow, (931) 239-3170.
2. Please disregard any references to geotechnical or asbestos reports in the project manual. These reports do not apply to this project.
3. Classification: Boiler & Machinery Insurance applies to this project. It is there to cover the cost of the equipment during installation as it is stated. The amount of insurance will be determined by the value of the equipment.
4. Classification: Since land disturbance will be under an acer, a Storm Water Pollution Prevention Plan (SWPPP) permit and EPSC design & monitoring shall not be required for this project.

**Architectural:**

Clarifications:

1. On the administration building, the existing copper fascia wrap is to remain. When the new roofing material is installed, overhang the existing copper fascia with the shingle and underlayment materials. Since the existing copper fascia is to remain, there is no need to repaint the wood fascia. Existing copper gutters and downspouts to remain.
2. The flashing on the pump building remains as it is shown on the drawings. It is not copper but a prefinished metal, ES-1 compliant flashing.
3. For the curtain injection water infiltration treatment in the Cool Wing, apply the material to approximately 8'-0" AFF. For the locations at the administration building, Contractor to coordinate with exterior grade. The grade slopes away. The water infiltration treatment should not be visible from the outside.
4. Remove all references to the asbestos and geotechnical reports.
5. The existing roof above the kitchen is an EPDM roof not the original built-up roof. The EPDM is to be removed prior to the installation of the new cover board and PVC roofing.
6. On the Admin Building, remove the existing shingle roofing. Place new shingle underlayment and ice and dam shield over existing substrate. Place new shingles over underlayment and ice and dam shield. Overhang edges of existing copper fascia to remain. The wood sleepers, insulation between sleepers, and new CDX plywood is not required. This building has been reroofed in the past and the substrate was modified at that time to allow for new roofing material. Notify designer immediately of any damaged substrate needing replacement prior to installation of new roofing materials.

Changes to Drawings:

1. Refer to sheet A1.3 Admin Building Roof. Change references on roof plan regarding gutters and downspout per the attached A1.3 with revision tag 2 dated 12-13-24.
2. Refer to sheet A1.3 Admin Building Roof. There is a portion of the existing standing seam roof that is to remain. See revised attached A1.3 with revision tag 2 dated 12-13-24.
3. Refer to sheet A1.3 Admin Building Roof. Change Roof Symbol Legend – Admin. to read per the attached revised A1.3 with revision tag 2 dated 12-13-24.

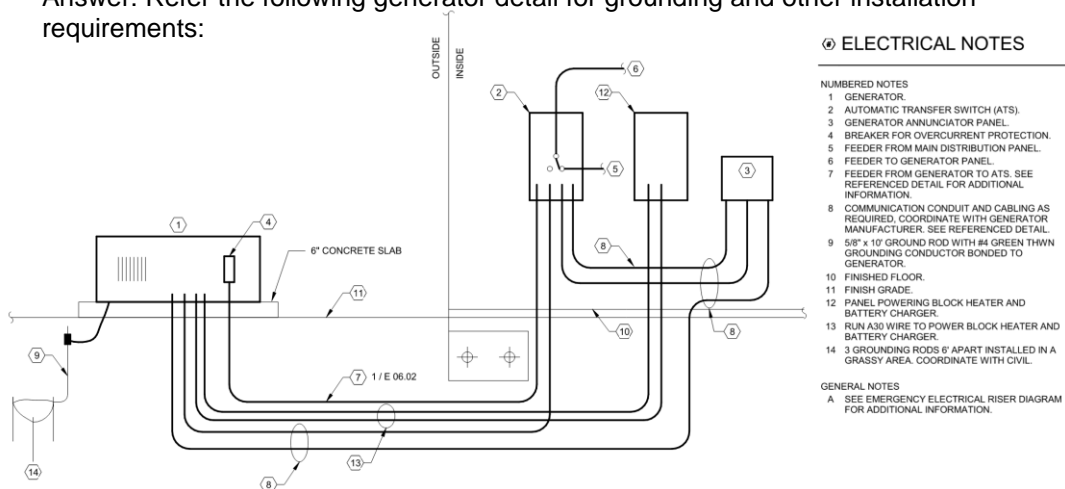
4. Refer to sheet A1.3 Admin Building Roof. Change note 'F' to the Admin Roof Key Notes to read "Existing Metal Roof to Remain."
5. Refer to sheet A1.4 Admin Building Roof Details – Detail 1. Remove reference to  $\frac{3}{4}$ " exterior plywood on wood sleepers attached to existing tongue and groove wood deck.
6. Refer to sheet A1.4 Admin Building Roof Details – Detail 4. Remove detail as it is not used.
7. Refer to sheet A1.5 Roof Details, details 1, 2, and 3. Remove references to built-up roof to remain. Change note to read "Remove existing EPDM roofing prior to placement of the hailguard board."
8. Refer to sheet A1.5 Roof Details, details 2 and 6. The downspout and gutters are existing to remain. Change references of new gutters and downspouts to read per attached revised. Remove references to repainting existing fascia to remain.
9. Refer to sheet A1.5 Roof Details, details 3, 4, 6 and 7. Remove reference to  $\frac{3}{4}$ " CDX plywood on 1  $\frac{1}{2}$ " P.T. wood sleepers at 24" clear and 1.3 rigid insulation board between wood sleepers. Remove references to repainting existing fascia to remain.
10. Refer to sheet A1.6 Roof Details, details 1, 2 and 6. The copper fascia and flashing are existing to remain. Change references per attached revised. Remove references to repainting existing fascia to remain.
11. Refer to sheet A1.6 Roof Details, details 1 and 2. Remove reference to  $\frac{3}{4}$ " CDX plywood on 1  $\frac{1}{2}$ " P.T. wood sleepers at 24" clear and 1.3 rigid insulation board between wood sleepers. Remove references to repainting existing fascia to remain.

**Mechanical:**

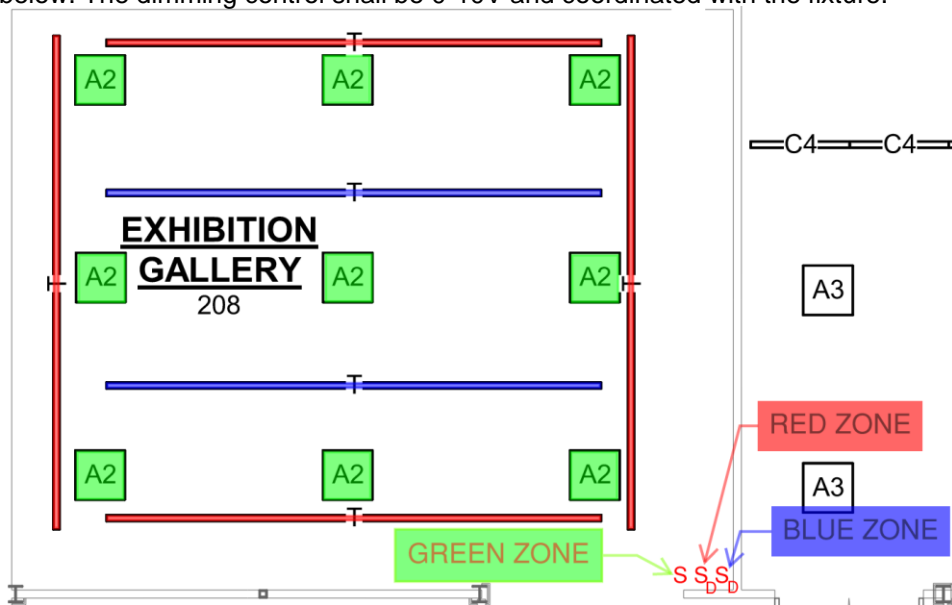
1. Question: Are we removing all pipe back to the main for the hanging fan coil units? M1.1 note 4  
Answer: Yes, all fan coil run out piping, from the mains to the fan coils, is to be replaced.
2. Question: Are we reusing the cooling tower under ground piping for the new air cooled chiller? M1.4  
Answer: No, the contractor shall install all new above ground piping for the air cooled chiller. See note 7 on sheet M1.4.
3. Question: Is there a removal of the boiler that is NOT listed on the plans? In the mechanical room on plan M1.4?  
Answer: No, the boiler is existing to remain. See note 4 on sheet M1.4.
4. Question: Does the new insulation need to be painted?  
Answer: No, the insulation does not need to be painted.
5. Question: Please provide coil flows for all MZ Units. This will be needed to size the control valves.
  - a. Original building plans are available and will be provided prior to notice to proceed.
6. Question: Please provide the locations of the Chilled and Hot Water Differential Pressure Sensors.
  - a. Differential pressure sensors shall be provided at the hydraulically most remote point in the system located at just before the air handler in Cool Wing Storage 101A, Sheet M1.2.
7. Clarification: When the trench is excavated for the new pump house, the contractor shall provide one empty 1" conduit for use by the controls contractor.
8. Clarification: The contractor shall provide and install central DDC control panels in each building. The contractor shall provide power from the nearest circuit and data for each control panel. The panels shall be located as follows:
  - a. Admin Building: Mechanical Equipment Room 112
  - b. Cool Wing: Storage 101A
  - c. Clay Studio: Boiler & Chiller Room 126
  - d. Glass – Metal Studio: Mechanical Room 115
9. Clarification: Refrigerant line for VRF-8 shall be routed to BC-1.

**Electrical:**

1. Question: Please provide additional information about the “replace broken conduits” on E1.2, note 2.  
Answer: The conduits seem to be broken within the utility transformer enclosure that allows storm water to enter the conduits allowing the water to enter the building through the conduits.
  - a. Are the conductors required to be replaced?  
Answer: We are not requiring the conductors to be replaced conductors. The conductors shall be reused as practical.
  - b. What is the shut-down procedure for this as the building will be without power.  
Answer: All power shut-down shall be coordinated and planned with the owner, this includes date, time, and duration of the shut-down.
2. Questions about E1.3 note 7 “demo capacity bank”:  
 Clarification: In-lieu-of “capacity bank, note 7 should refer to “capacitor bank”
  - a. Question: Is a certified recycling/disposal certificate required to be submitted for this?  
Answer: No
  - b. Question: Is pollution insurance required for this project?  
Answer: No
3. Questions about E1.5 Note 11 “coordinate with Caney Fork”:  
  - a. Questions Has this project been discussed with Caney Fork?  
Answer: Yes
  - b. If so, who is the contact person at Caney Fork for this project?  
Answer: Scott Romzek
  - c. Has aid in construction cost with Caney Fork been established?  
Answer: Yes. An allowance of \$30,000 shall be included in the bid for the utility add-of-construction. All work associated with the three-phase recloser system shall be done by the electrical utility.
4. What will be the shutdown procedures for the electrical service changeover?  
Answer: All power shut-down shall be coordinated and planned with the owner, this includes date, time, and duration of the shut-down.
5. Will Fire Watch security be required to monitor the facilities because the Fire Pump will be offline?  
Answer: Yes. TTU will provide the fire watch via their security team. However, the downtime of the Fire Pump power shall be coordinated to minimize the time for the fire watch.
6. Does TTU have a preference for an underground utility locator or scanner to locate their private utilities?  
Answer: No. The contractor shall provide a quified underground utility locator as required.
7. Will there be a detail for the concrete generator pad issued?  
Answer: See detail 2 on sheet S-4.0
8. Will there be a grounding detail provided for the generator?  
Answer: Refer the following generator detail for grounding and other installation requirements:



9. Where asphalt roadways are to be cut, is gravel backfill and a 6" concrete cap acceptable, in lieu of an asphalt cap?  
Answer: Backfill shall be compacted gravel with asphalt cap. The asphalt cap shall consist of 6" binder and 2" finish coat.
10. On sheet E2.1, Sales Gallery / Exhibition 220: Is the existing track lighting to remain?  
Answer: Yes.
11. On sheet E2.1, Sales Gallery / Exhibition 220: It appears this is a one for one light fixture replacement throughout the project, except for the P fixtures in this room. The new P fixtures are oriented in a different direction than the existing. Is this the correct orientation for the new installation?  
Answer: The P fixtures are a one-for-one replacement. The new fixtures shall be oriented the same as the existing fixtures.
12. Plan sheet E2.1 shows a lighting fixture "T" at the Main Level in Exhibition Gallery 208. There is a fixture "T4" shown on the Lighting Fixture Schedule on E0.1 but not a "T" fixture. Please let us know what to allow for the T fixture.  
Answer: The Type T fixture shall be Solais Lighting LCM-x-nfl-950-2000-40. The contractor shall include 45 Type T fixtures evenly spaced along the path shown in the plans. The lighting in Exhibition Gallery 208 shall be divided into three zones as shown in the plan below. The dimming control shall be 0-10V and coordinated with the fixture.



13. Clarification: All lighting shall be color temperature 4000K.
14. Are we to reuse the existing lighting controls?  
Answer: Yes, except for Exhibition Gallery 208. Refer to 12 above.
15. It appears this is a one for one fixture replacement throughout the project, is it acceptable to use the existing mounting and supports for the new fixtures if they are in good working order?  
Answer: Yes
16. Will a certified recycling/proper disposal certificate be required for the existing light bulbs to be removed?  
Answer: Yes. For bulbs / fluorescent lamps that contain hazardous materials.
17. Will occupied areas that contain work in progress or on display be removed prior to work being done?  
Answer: Display artwork and objects that are work-in-progress will be removed prior to contractor starting their work. However, tables, chairs, benches, machinery, etc. will remain and the contractor shall work around these items.

18. Specifications:

- a. 26 2.16 Surge Protection, did not see any on the plans, Is this required for this project?

Answer: Yes. Install a minimum of a 240KA panel mounted SPD in Panel H1. The SPD shall be of the same manufacturer as the panel and listed for panel mounting. Coordinate with the manufacturer as required.

- b. 26 03.18 Testing: B., Meg testing, is this required for this project?

Answer: No meg-testing shall be required for this project.

- c. 26 03 18 H., Infrared scanning: Is this required for this project?

Answer: No infrared scanning shall be required for this project.

- d. 26 08 00: 3.01 D, E and F: Is this required for this project? If so, for the new installation or for all existing in place?

Answer: Yes, but only for the new installation.

19. Clarification: Sheet E1.5 Pump House Power Plan: Install a general use 120V 20A GFCI receptacle in the new mechanical space where new booster pump is shown. Add one 20A 1-pole breaker in Panel L1 and utilize an A20 branch circuit.

20. Clarification: Sheet E3.1

- a. Panel H1:

i. Add two (2) spare 20A 3-pole breakers.

ii. Add one (1) spare 100A 3-pole breaker.

iii. Circuit H1-7,9,11 shall have a 40A 3-pole breaker and feed shall be C50.

- b. Panel L1: Add fifteen (15) spare 20A 1-pole breakers.

- c. Panel P1: Add fifteen (15) spare 20A 1-pole breakers. Increase size of panel to a minimum of 24 poles.

Addendum by:

Justin Newell, PE

Maffett Loftis Engineering, LLC

Attachments:

Pre-Bid Conference Sign-in Sheet

A1.3 ADMIN BUILDING ROOF

A1.4 ADMIN BUILDING ROOF DETAILS

A1.5 ROOF DETAILS

A1.6 ROOF DETAILS

**Craft Center Upgrades**  
**Tennessee Technological University**  
**Cookeville, Tennessee**  
**Project No. 364/031-01-2023**  
**Pre-Bid Conference Sign-In Sheet**  
**Wednesday, December 4, 2024, 9:00 a.m.**

Name	Company	Telephone	Email (legible please)
Carl Deskins	Upland Design Group	931-210-8217	cdeskins@uplanddesigngroup.com
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Gary Loftis	Maffett Loftis Eng.	931-526-5143	gary@maffett-loftis.com
Sean Davis	MACS, Inc.	615-889-3009	seand@macsinc.com
Brian King	KCGI	931.614.0782	bking@kingcgi.com
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Seth Hudson	HD Commercial	931-544-9312	sethhudson475@gmail.com
<b>KIMBERLY WINKLE CRAFT CENTER</b>			
Nicole Sims	TTU	615 631 6751	nsims@tntech.edu
JASON NAPIER	TURNER ROOFING CO.	931-261-8711	JASON@TRCTN.COM



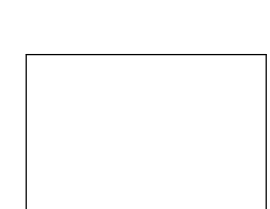
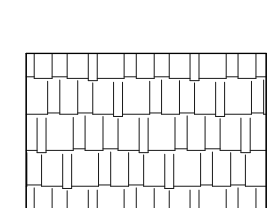
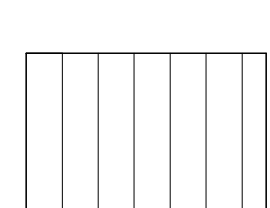
## ADMIN ROOF KEY NOTES

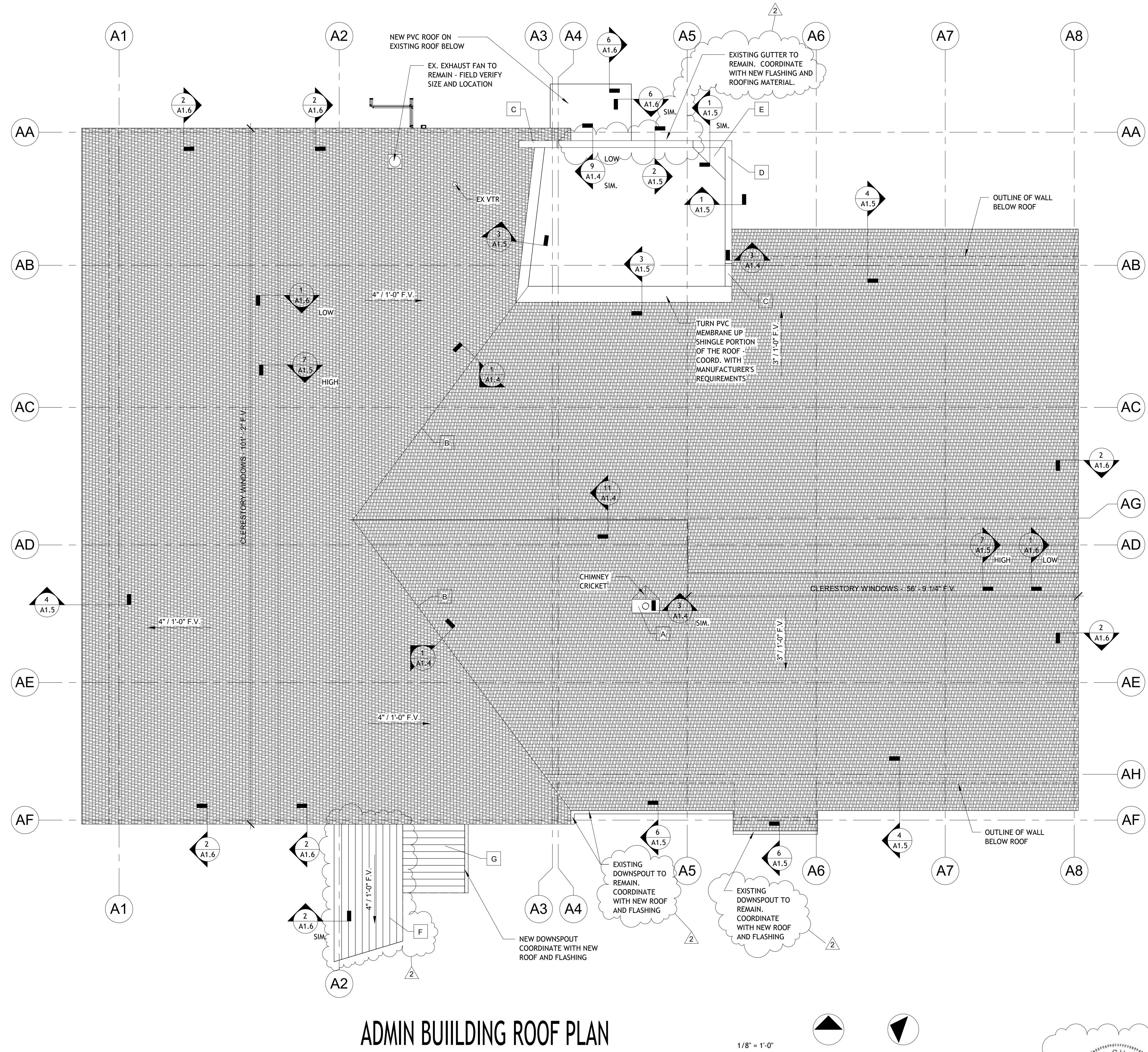
- A. EXISTING CHIMNEY TO REMAIN. FIELD VERIFY SIZE AND LOCATION OF CHIMNEY. COORDINATE FLASHING WITH NEW ROOF PLAN AND DETAILS.
- B. CLOSED CUT SHINGLE VALLEY. COORDINATE WITH DETAIL 1/A1.4
- C. COORDINATE NEW LOW SLOPE ROOF EDGE WITH LOWER PORTION OF WALL. COORDINATE WITH DETAIL 3/A1.4
- D. REMOVE EXISTING COPING. REMOVE ANY ROTTED OR DAMAGED BLOCKING. REPLACE WITH NEW PREFINISHED METAL COPING WITH ES-1 COMPLIANT HOLD DOWN CLIPS. FIELD VERIFY SIZE OF EXISTING WALL. COORDINATE WITH DETAIL 5/A1.5
- E. PROVIDE NEW CRICKET IN CORNER TO PROVIDE POSITIVE DRAINAGE. FIELD VERIFY DIMENSIONS OF WINGWALLS.
- F. EXISTING METAL ROOF TO REMAIN.
- G. REMOVE EXISTING METAL ROOF. INSTALL NEW STANDING SEAM METAL ROOF OVER ELEVATOR EQUIPMENT ROOM. COORDINATE WITH NEW GUTTER. FIELD VERIFY SIZE AND SLOPE OF ROOF. PROTECT EQUIPMENT INSIDE DURING TRANSITION FROM EXISTING TO NEW.

## GENERAL ROOF NOTES

- 1. ROOF TOP PENETRATIONS SHOWN MAY NOT BE ALL INCLUSIVE. SEE MECHANICAL AND PLUMBING DRAWINGS FOR MORE INFORMATION.
- 2. TAPERED INSULATION SHALL SLOPE A MINIMUM OF 1/4" PER 1'-0". COORDINATE INSULATION THICKNESS WITH EXISTING CONDITIONS, EDGES AND CURBS.
- 3. COORDINATE MECHANICAL UNIT LOCATIONS WITH ACTUAL INSULATION HEIGHTS TO PROVIDE A MIN. OF 8" BETWEEN ROOF AND TOP OF CURBS.
- 4. PROVIDE CONCRETE SPLASH BLOCKS AT ALL LOCATIONS WHERE DOWNSPOUTS DISCHARGE ONTO LOWER ROOFS.
- 5. PROVIDE GUTTER EXPANSION JOINTS EVERY 30 FEET MAX. - COORDINATE WITH MANUFACTURER'S REQUIREMENTS.
- 6. PROVIDE MEMBRANE ROOF WALKWAY PADS AROUND HVAC UNITS AT LOW SLOPE ROOF.
- 7. PROVIDE TAPERED INSULATION CRICKETS ON THE UPHILL SIDE OF ROOF TOP EQUIPMENT.
- 8. COORDINATE THE ROOF EDGE FLASHING AND WOOD BLOCKING DEPTHS AS REQUIRE TO ACCOMMODATE THE ACTUAL TAPERED INSULATION THICKNESS.
- 9. EDGE METAL SHALL BE FASTENED TO WOOD BLOCKING PER DETAIL
- 10. ALL FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED. TWO FASTENERS PER STUD TYPICAL. AT CONTRACTOR'S OPTION - FASTENERS CAN BE STAINLESS STEEL.
- 11. FOR AREAS OF ROOF WITH MULTIPLE LAYERS OF ROOF INSULATION, THE FIRST LAYER OF INSULATION WILL BE MECHANICALLY FASTENED WITH UPPER LAYERS TO BE FULLY ADHERED.
- 12. REMOVE EXISTING ROOF SHINGLES AND RIGID INSULATION BOARD ON ROOF AND FASCIA BOARD AROUND THE EDGES. PREPARE SURFACE TO RECEIVE NEW SLEEPERS, PLYWOOD AND INSULATION LAYERS BETWEEN NEW SHINGLE ROOF.
- 13. REPLACE EXISTING, DAMAGED WOOD FASCIA BOARD AT EDGE OF ROOF. COORDINATE WITH NEW SHINGLES AND FLASHING.

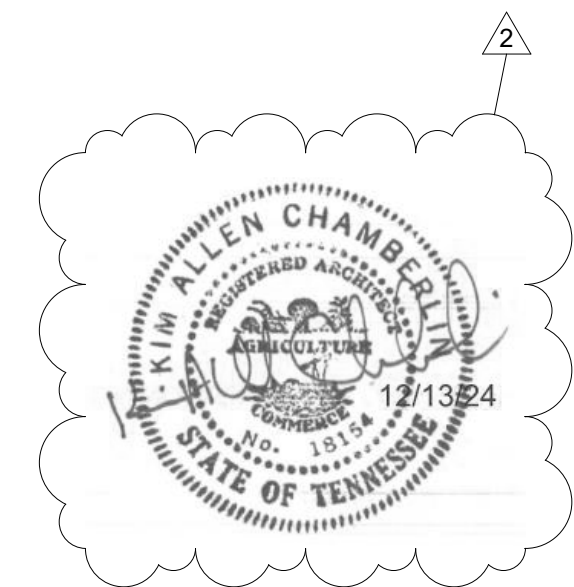
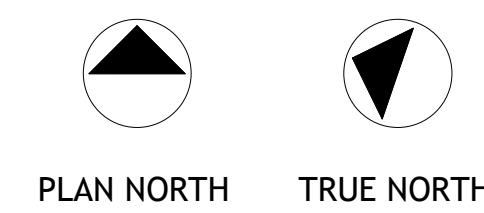
## ROOF SYMBOL LEGEND - ADMIN.

-  REMOVE EXISTING EPDM ROOFING PRIOR TO PLACEMENT OF THE HAILGUARD BOARD. SCREW DOWN A 1/2" HIGH DENSITY ISO HAILGUARD BOARD. FULLY ADHERE A PVC ROOF OVER THE COVER BOARD. MAINTAIN 1/4" PER 1'-0" SLOPE.
-  NEW ARCHITECTURAL GLASS MAT REINFORCED ASPHALT SHINGLES ON SHINGLE UNDERLAYMENT AND ICE AND DAM SHIELD ATTACHED TO EXISTING 5" TONGUE AND GROOVE WOOD DECK ON 2X8 WOOD NAILERS TO REMAIN. FIELD VERIFY EXISTING CONDITIONS, MATERIALS AND THICKNESS.
-  NEW STANDING SEAM METAL STUDS ON EXISTING SHEATHING TO REMAIN. COORDINATE WITH FLASHING AND ADJACENT MATERIALS.



## ADMIN BUILDING ROOF PLAN

1/8" = 1'-0"



CRAFT CENTER UPGRADES  
 TENNESSEE TECH UNIVERSITY  
 SBC NO. 364/031-01-2023  
 COOKEVILLE, TN 38501

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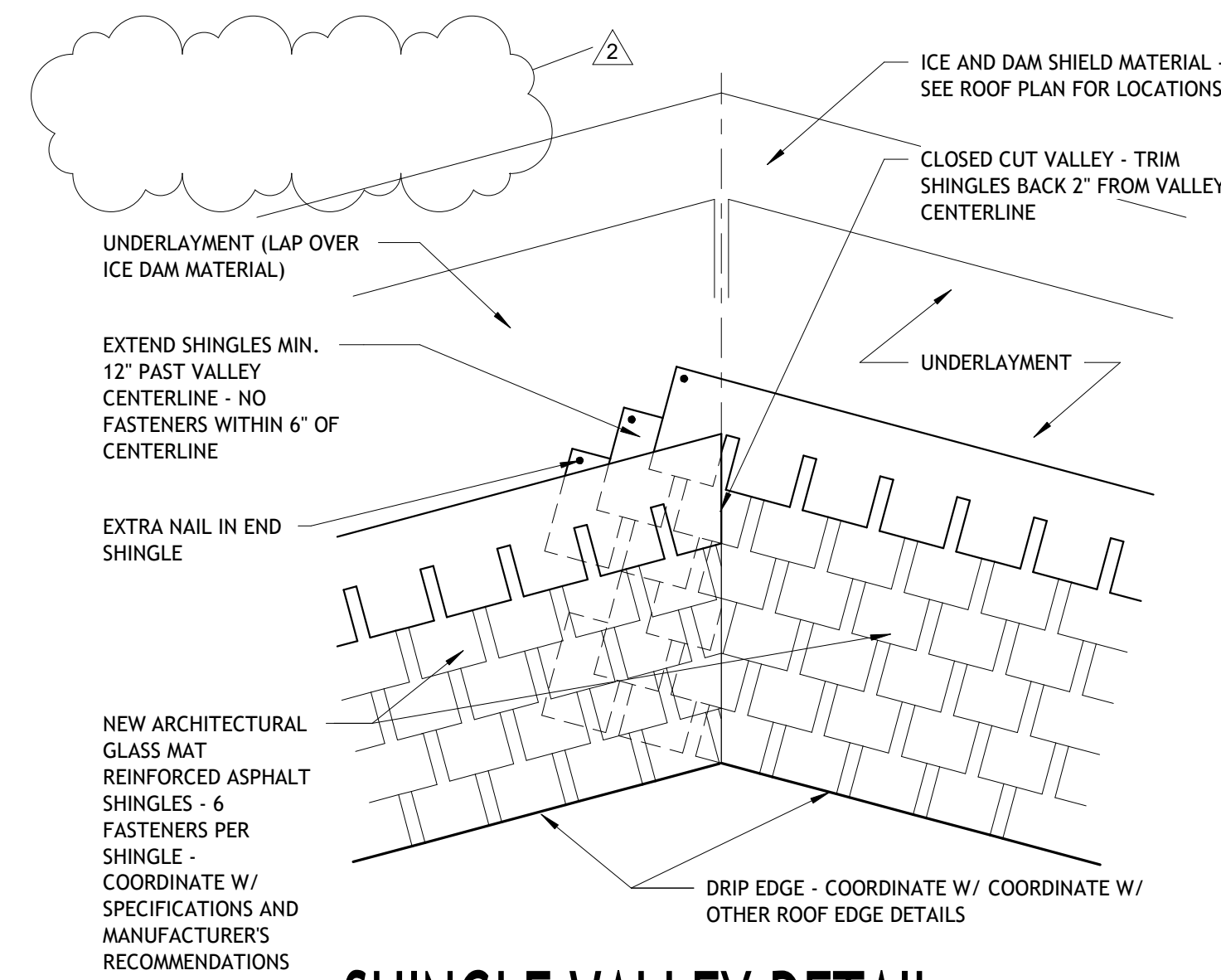
Revisions indicated w/ Δ

No.	Date	Description
2	12-13-24	ADDENDUM #1

**A1.3**  
 SHEET: ADMIN BUILDING ROOF  
 TITLE:  
 JOB NO.: 23028 DATE: 09-27-2024  
 DWN BY: CND



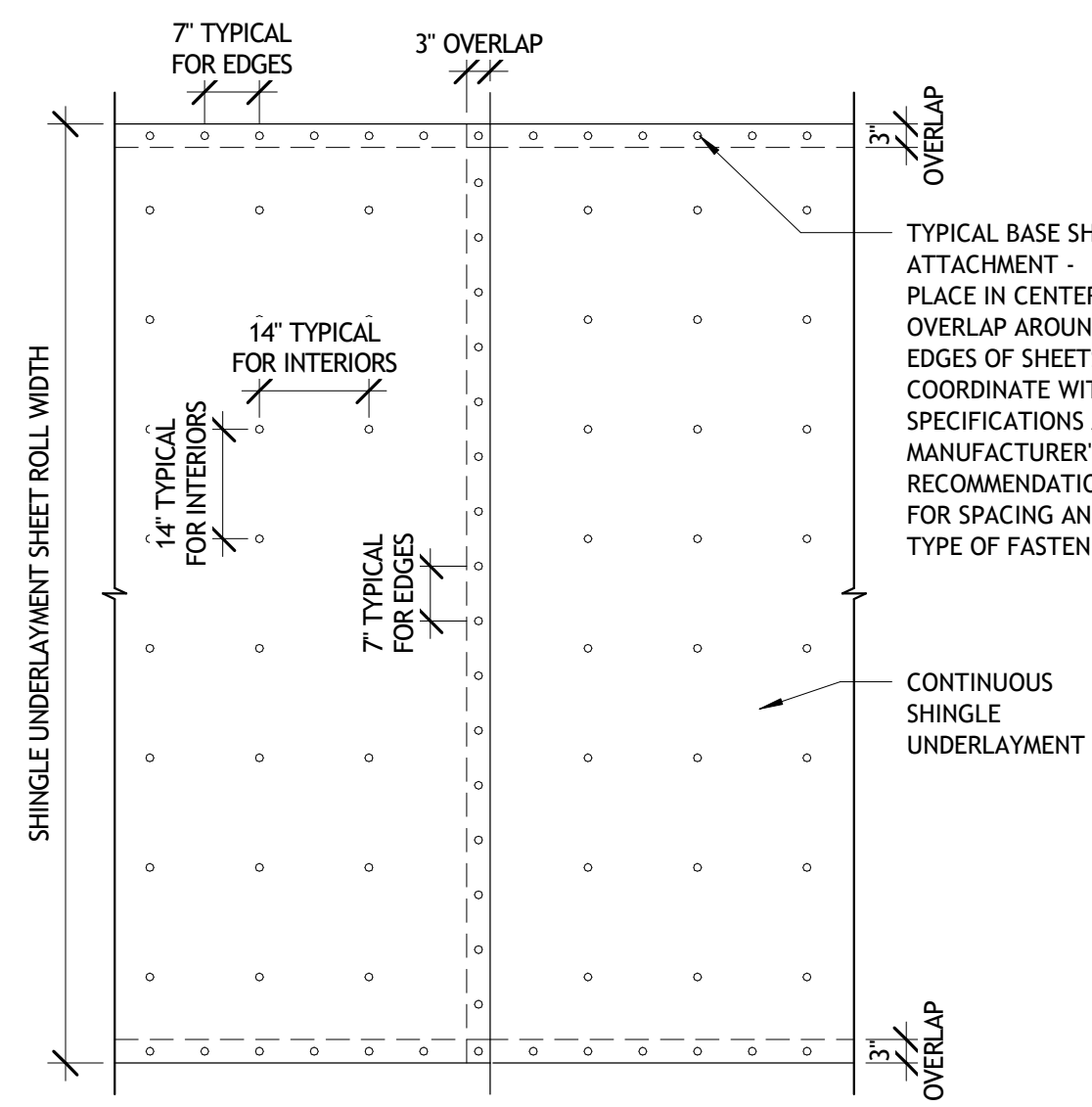




### SHINGLE VALLEY DETAIL

N.T.S.

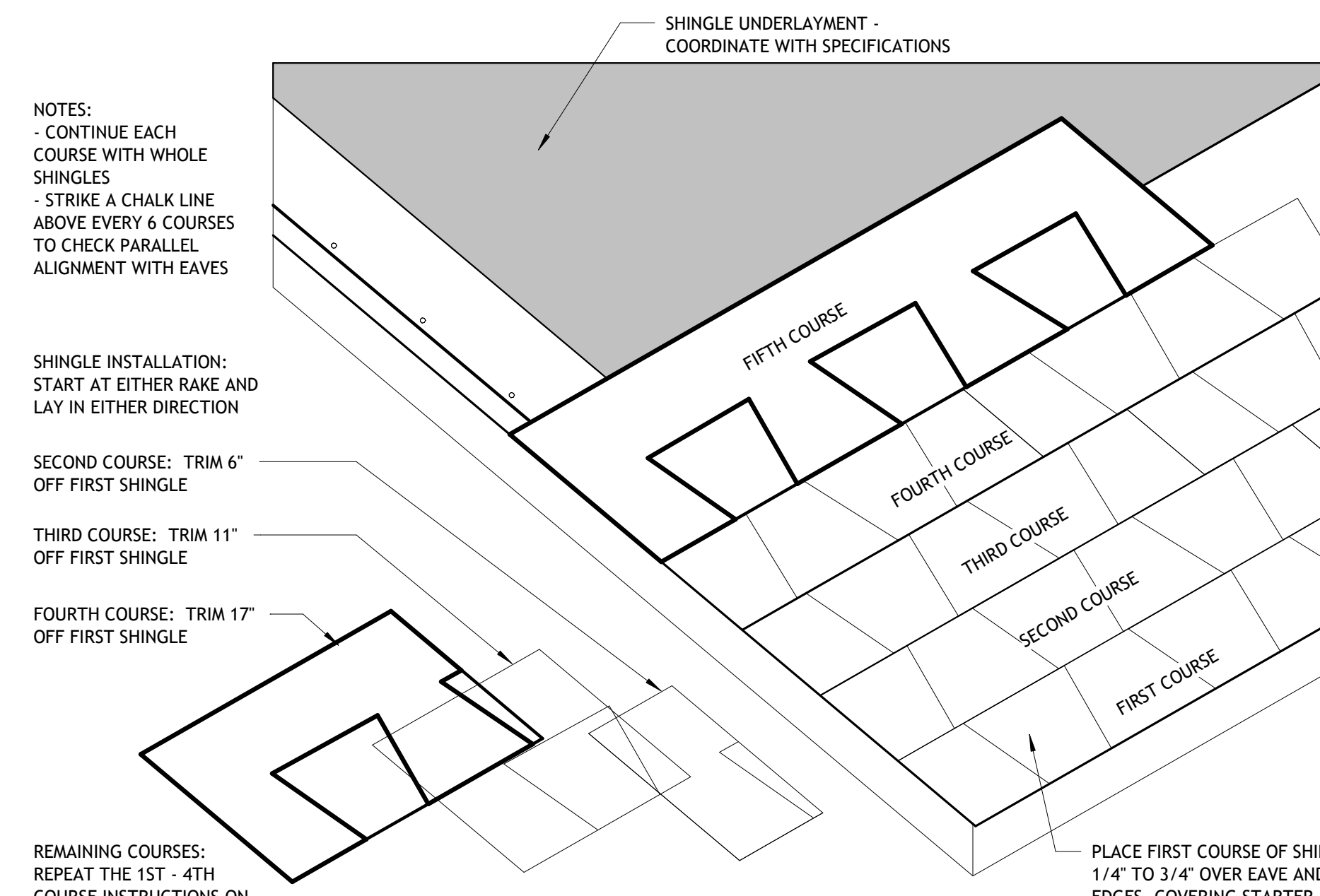
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### UNDERLAYMENT ATTACHMENT

1/2" = 1'-0"

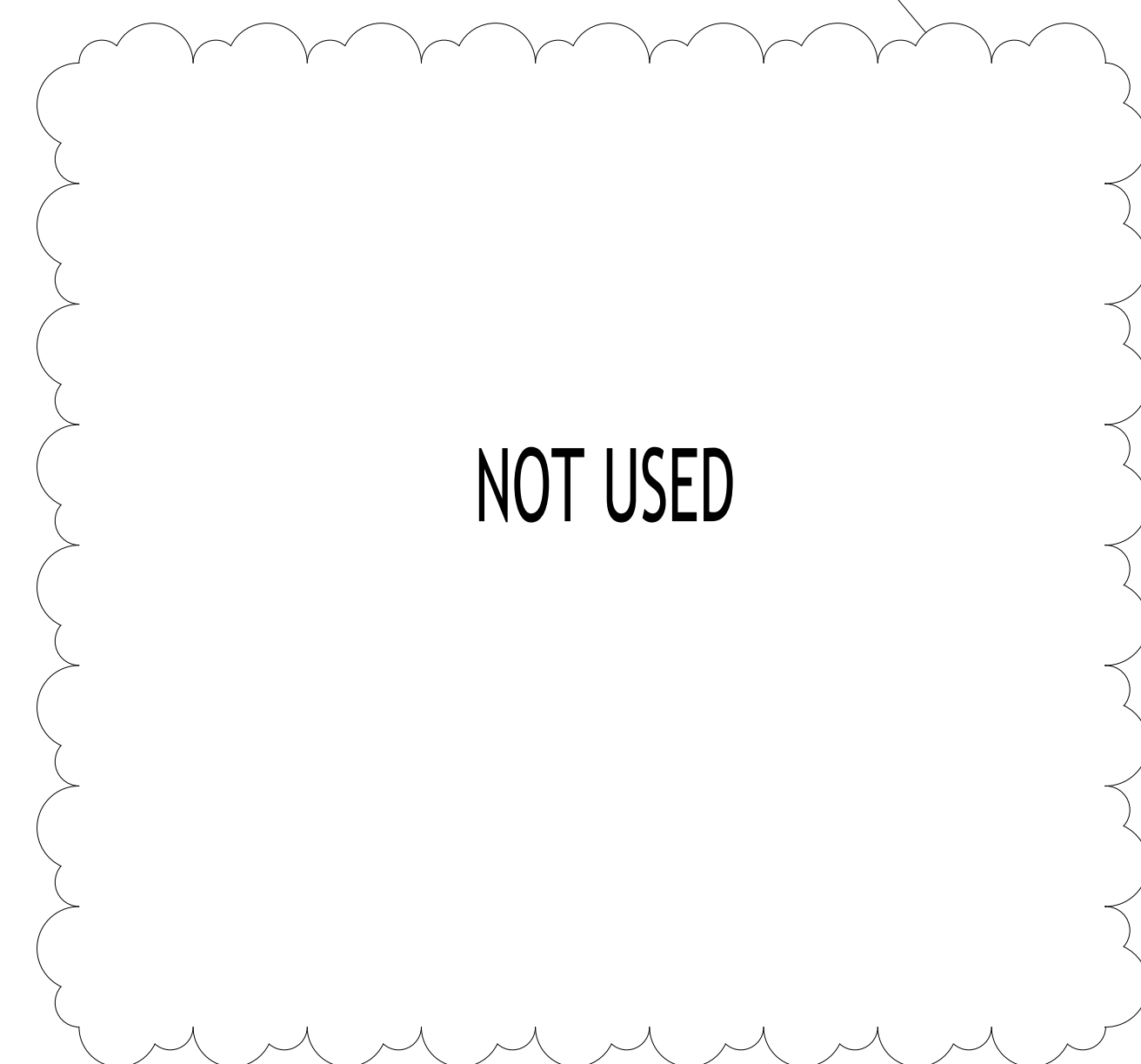
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### SHINGLE INSTALLATION

1 1/2" = 1'-0"

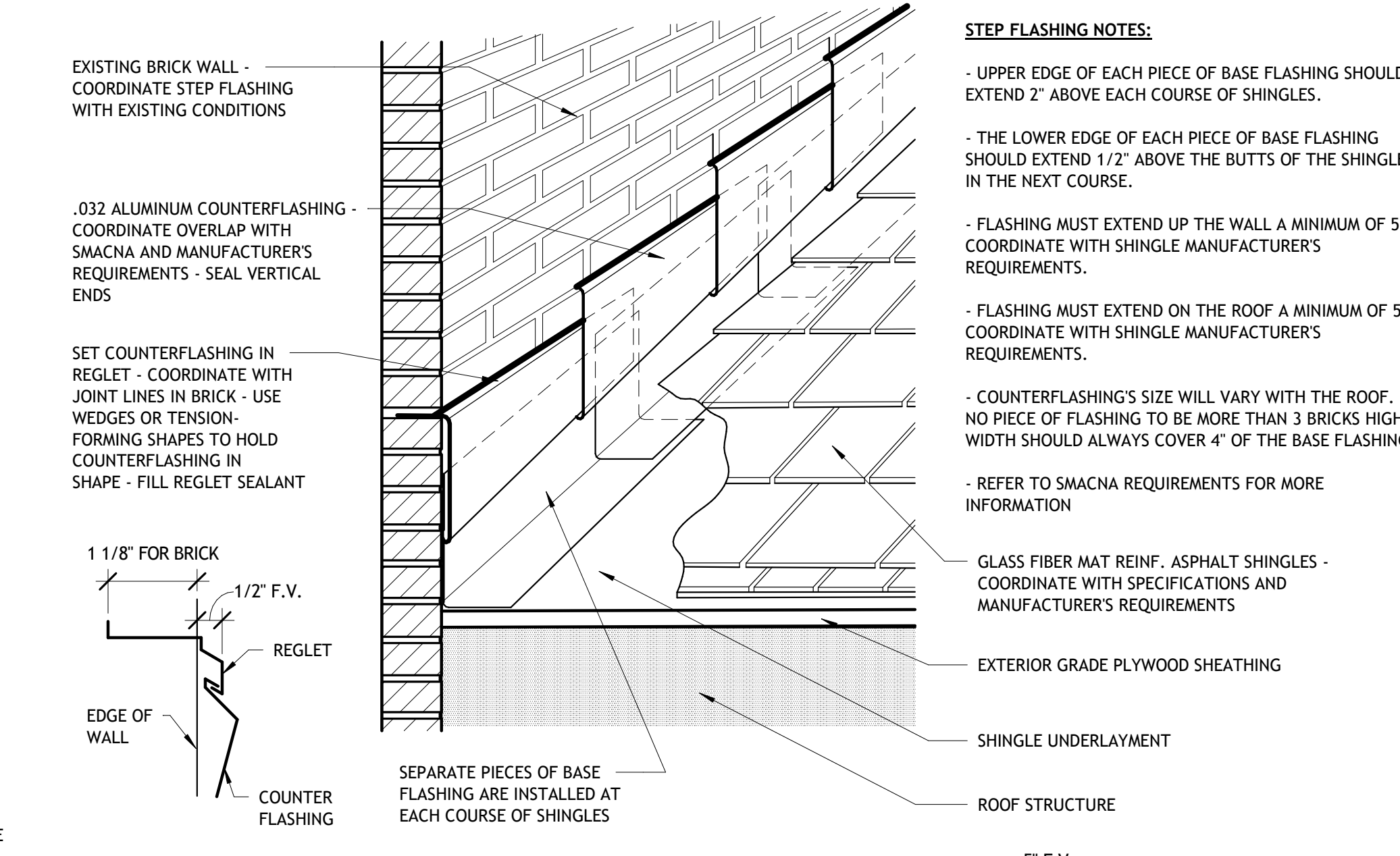
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### ROOF PLYWD. ATTACHMENT

1/2" = 1'-0"

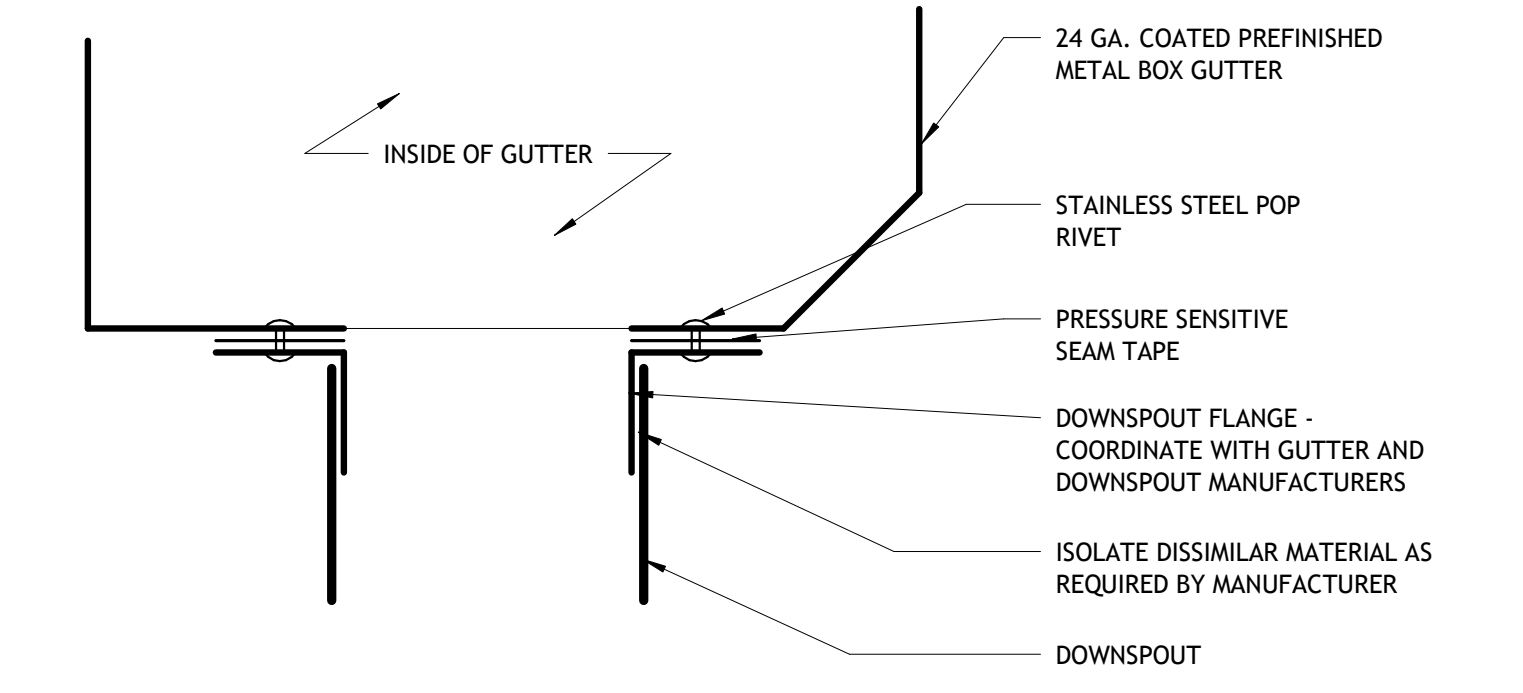
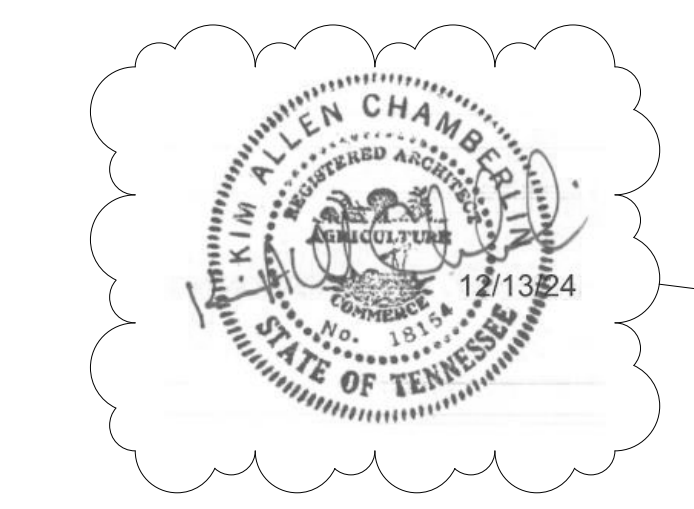
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### TYP. STEP FLASHING DETAIL

1 1/2" = 1'-0"

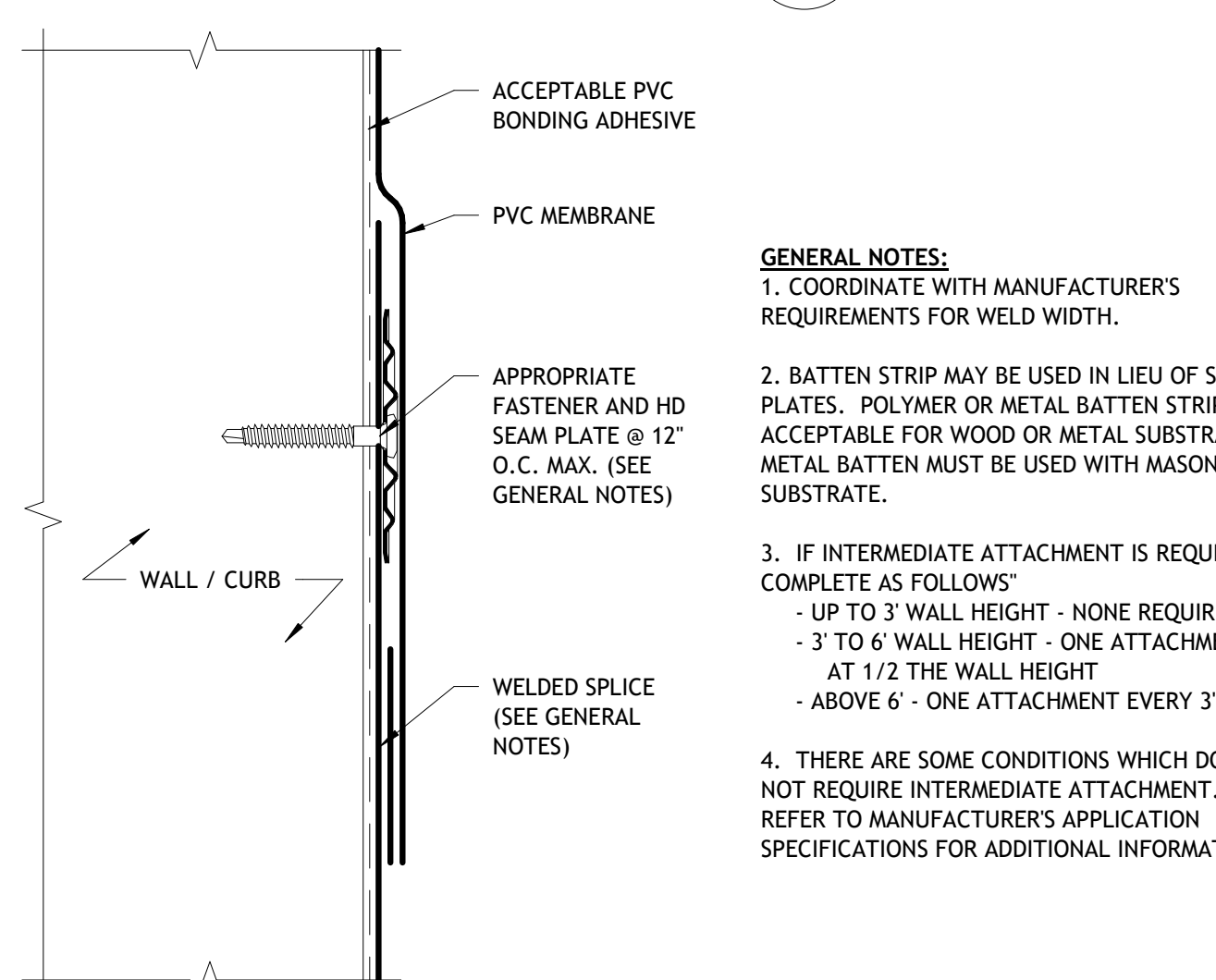
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### DS TO GUTTER CONNECTION

1/2" = 1'-0"

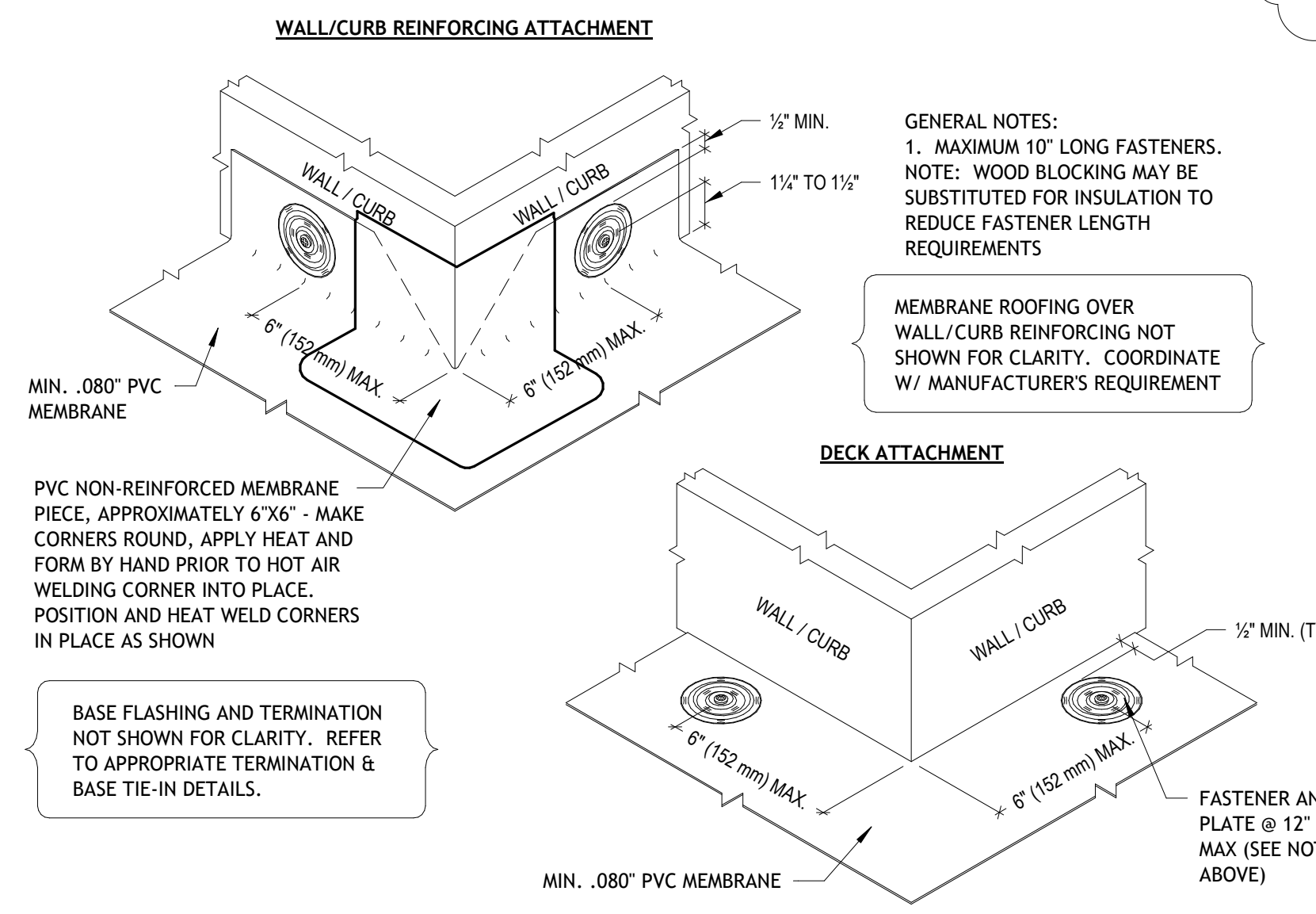
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### PVC WALL SPLICE DETAIL

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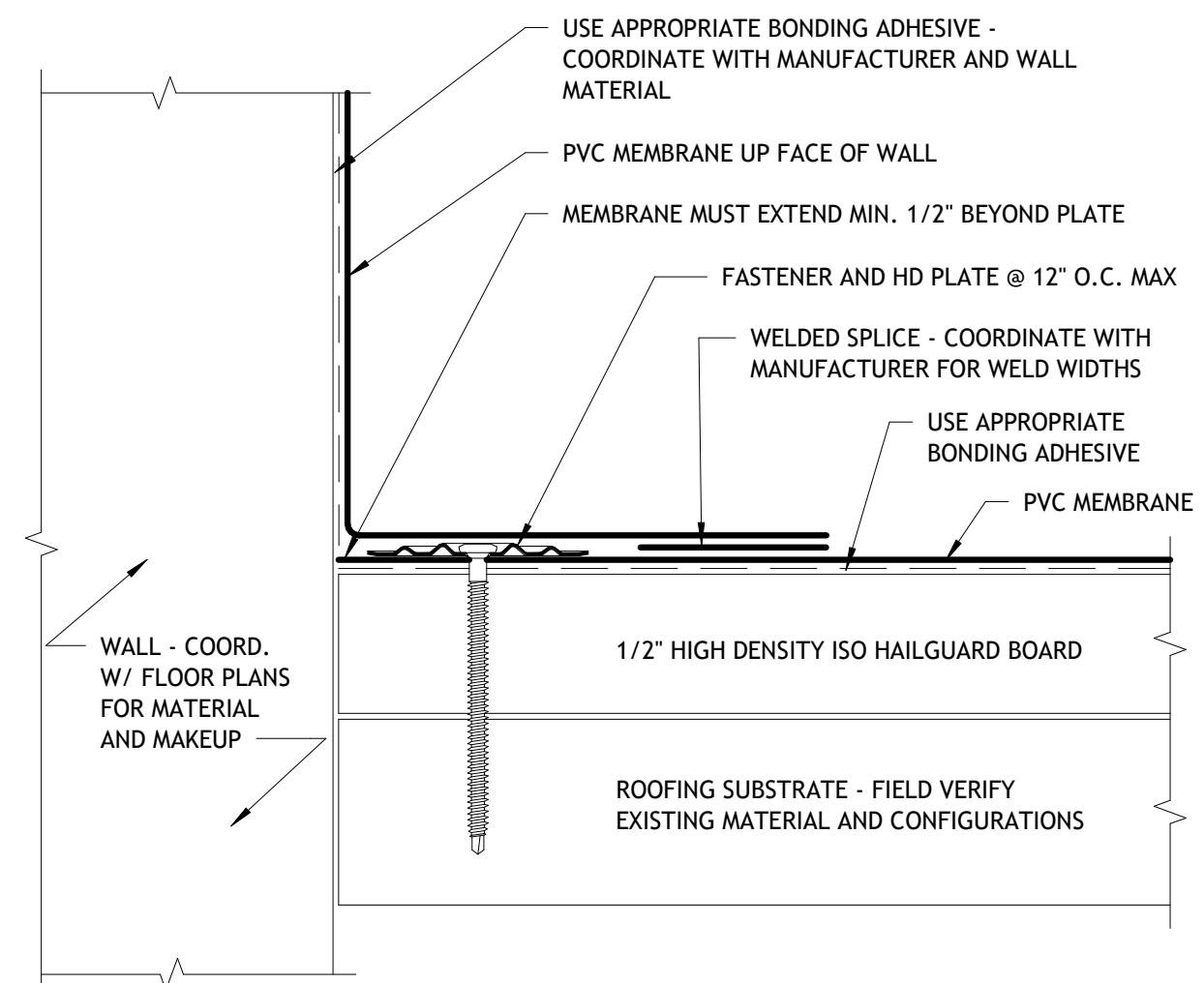
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### PVC ROOF TO WALL

6" = 1'-0"

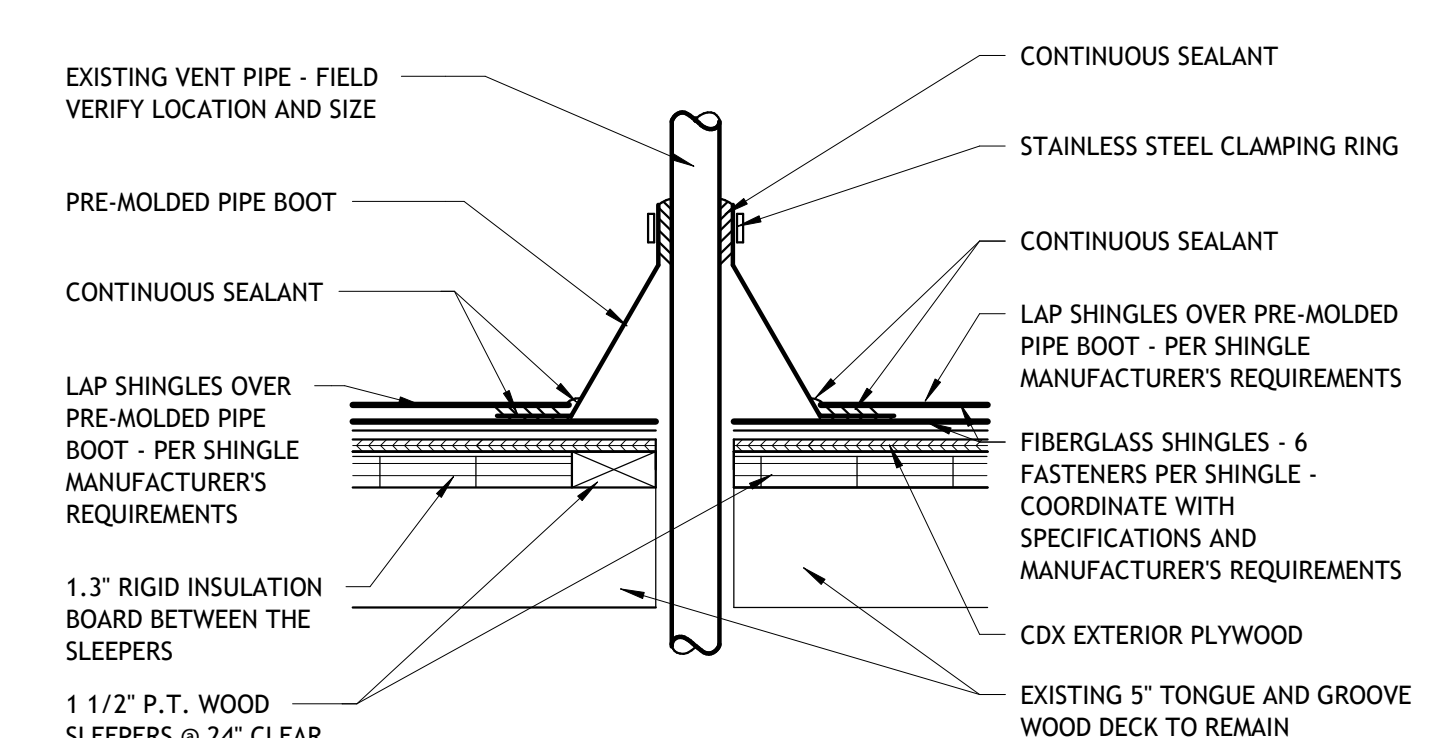
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### ROOF TO WALL DETAIL

6" = 1'-0"

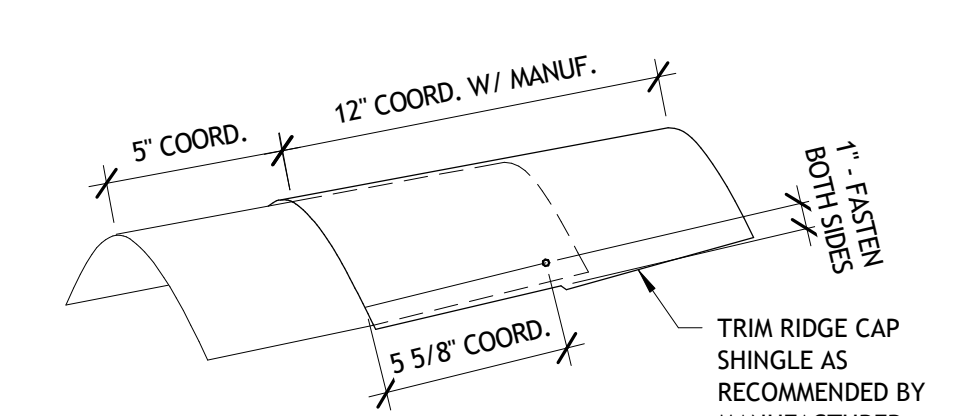
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### VTR - SHINGLE ROOF

1 1/2" = 1'-0"

10



### TYP. RIDGE CAP DETAIL

N.T.S.

11

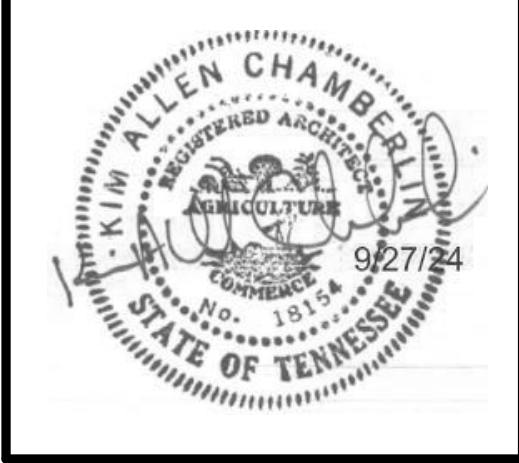
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 SBC NO. 364/031-01-2023  
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Upland Design Group  
 UPR AND DESIGN GROUP, INC.  
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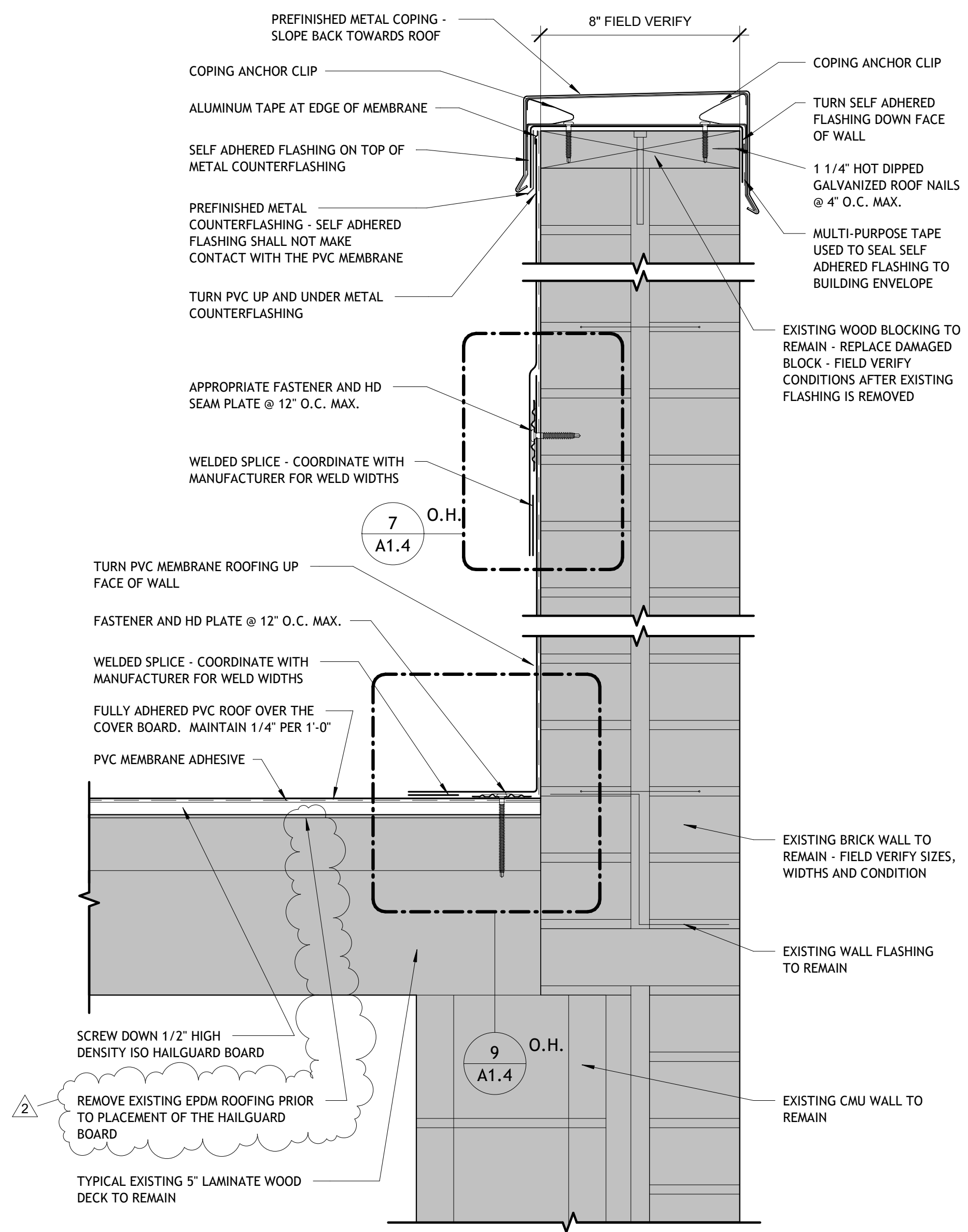
MAFFETT OFFICE ENGINEERING & ARCHITECTURE  
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Revisions indicated w/ Δ	No.	Date	Description
	2	12-13-24	ADDENDUM #1

**A1.4**  
 SHEET: ADMIN BUILDING ROOF DETAILS  
 TITLE:  
 JOB NO: 23028 DATE: 09-27-2024  
 DWN BY: CVD



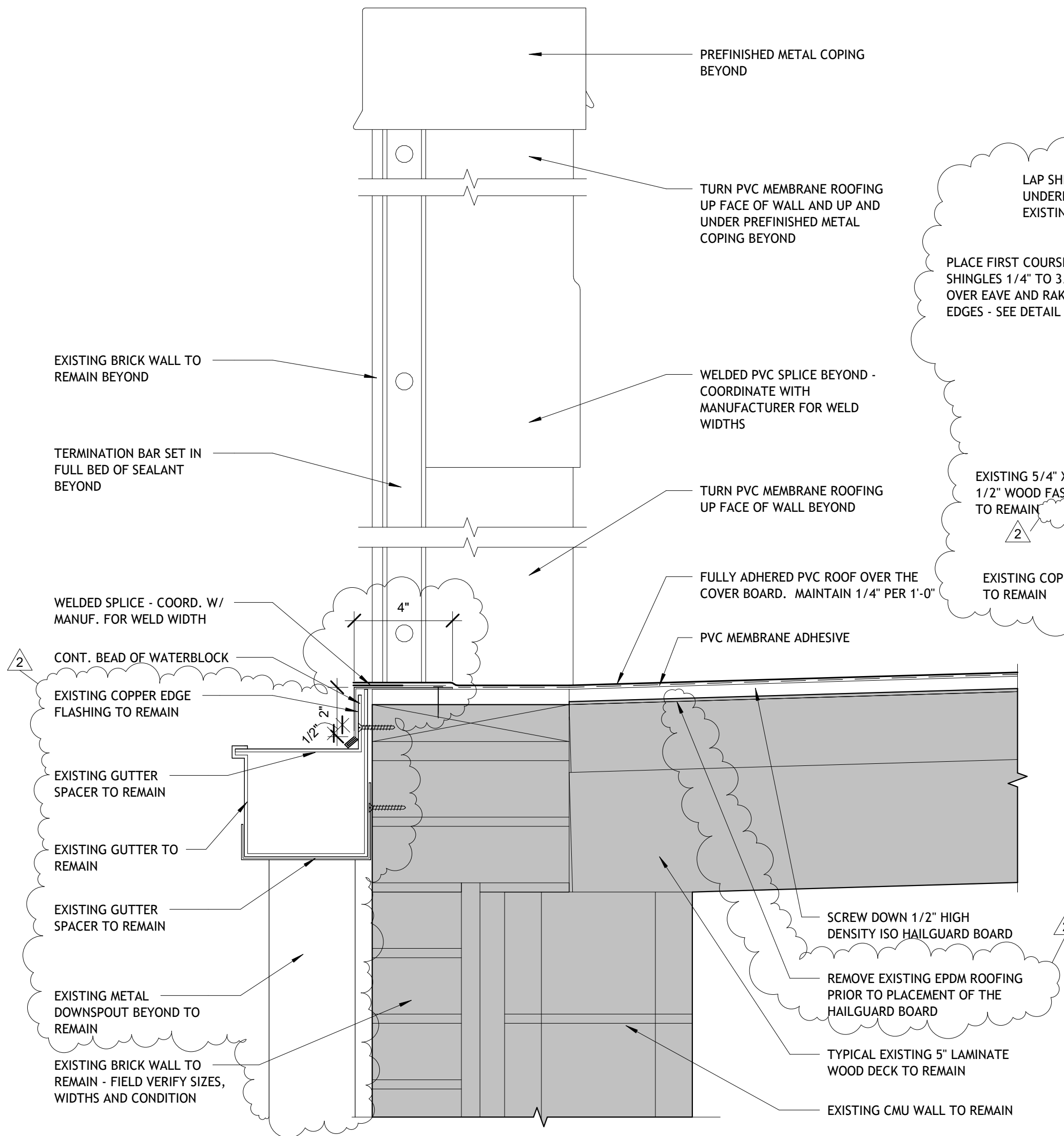




**ROOF DETAIL**

3" = 1'-0"

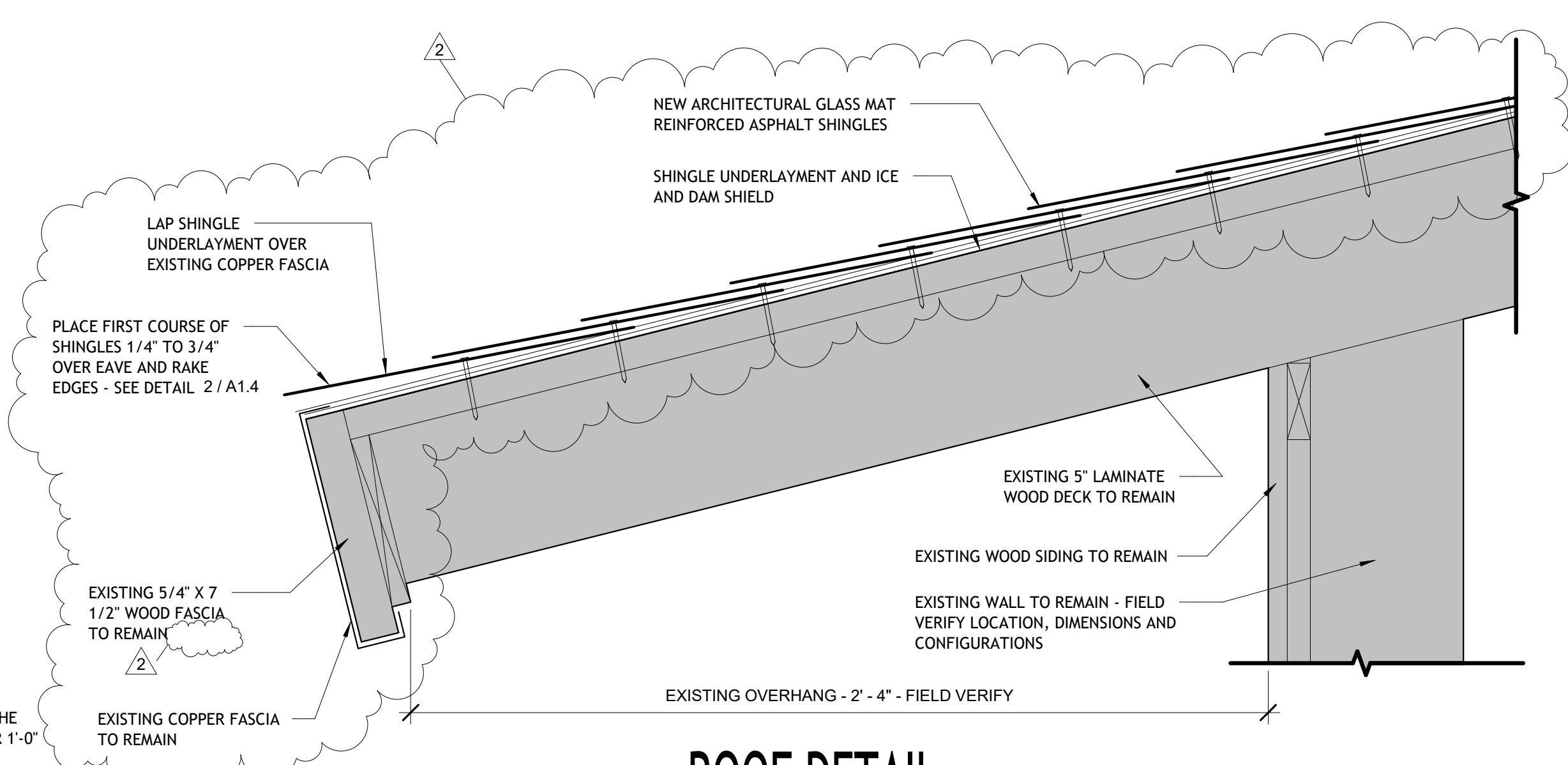
1



**ROOF DETAIL**

3" = 1'-0"

2



**ROOF DETAIL**

3" = 1'-0"

4

NOTE:  
ALL 1 1/2" RING SHANK NAILS MUST HAVE 1" MINIMUM EMBEDMENT INTO WOOD

SECURE FASCIA WITH 1 1/2" RING SHANK NAILS 6" O.C.  
PREFINISHED ES-1 COMPLIANT FASCIA PROFILE - 24 GAUGE

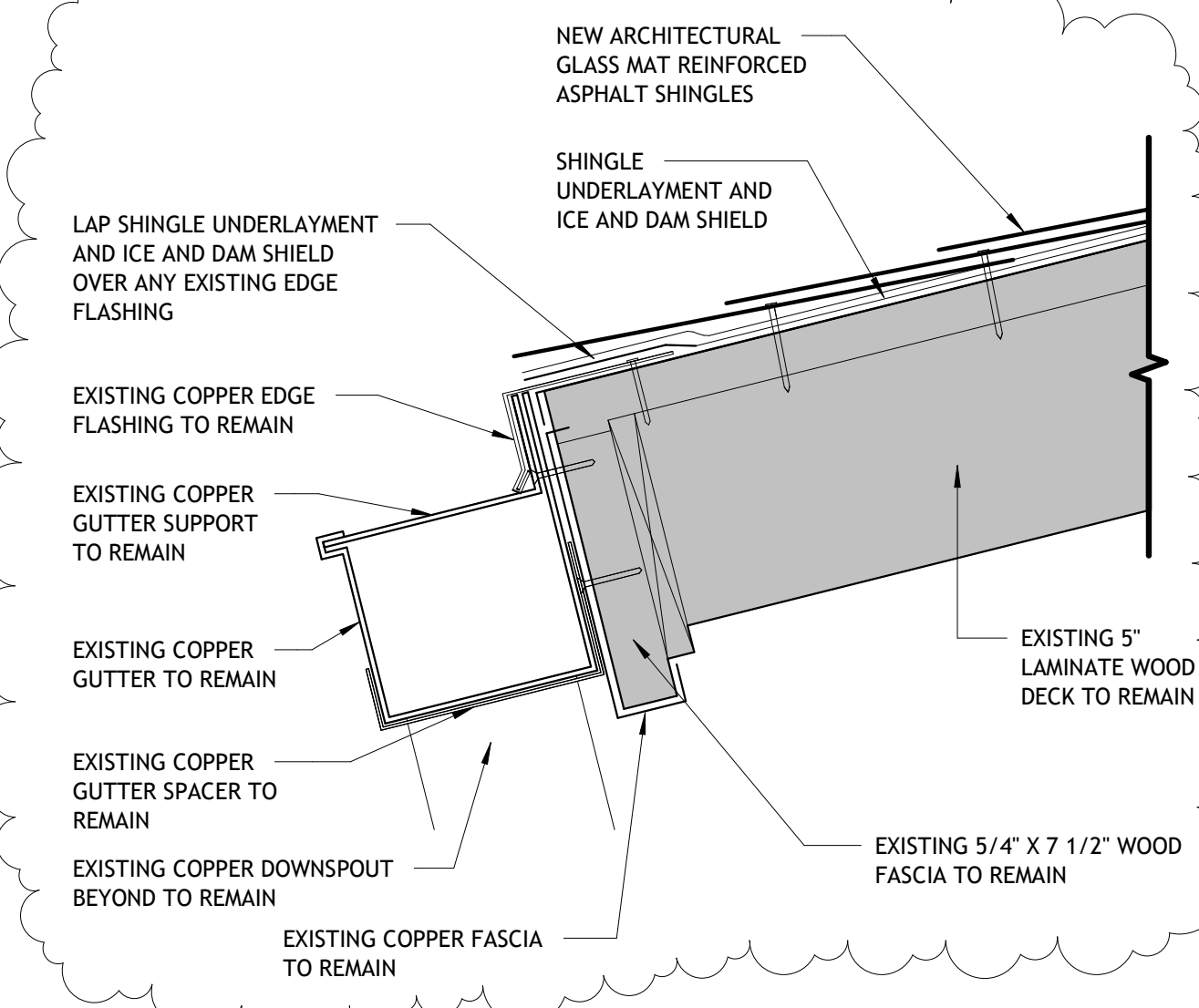
**FASCIA PROFILE**

TURN TOP OF GALVANIZED METAL CLEAT UP AND OVER THE FACE OF WALL

GALVANIZED METAL CLEAT - 22 GAUGE

SECURE CLEAT WITH 1 1/2" RING SHANK @ 6" O.C. AND MIN. 1" EMBEDMENT INTO WOOD - TWO ROWS STAGGERED

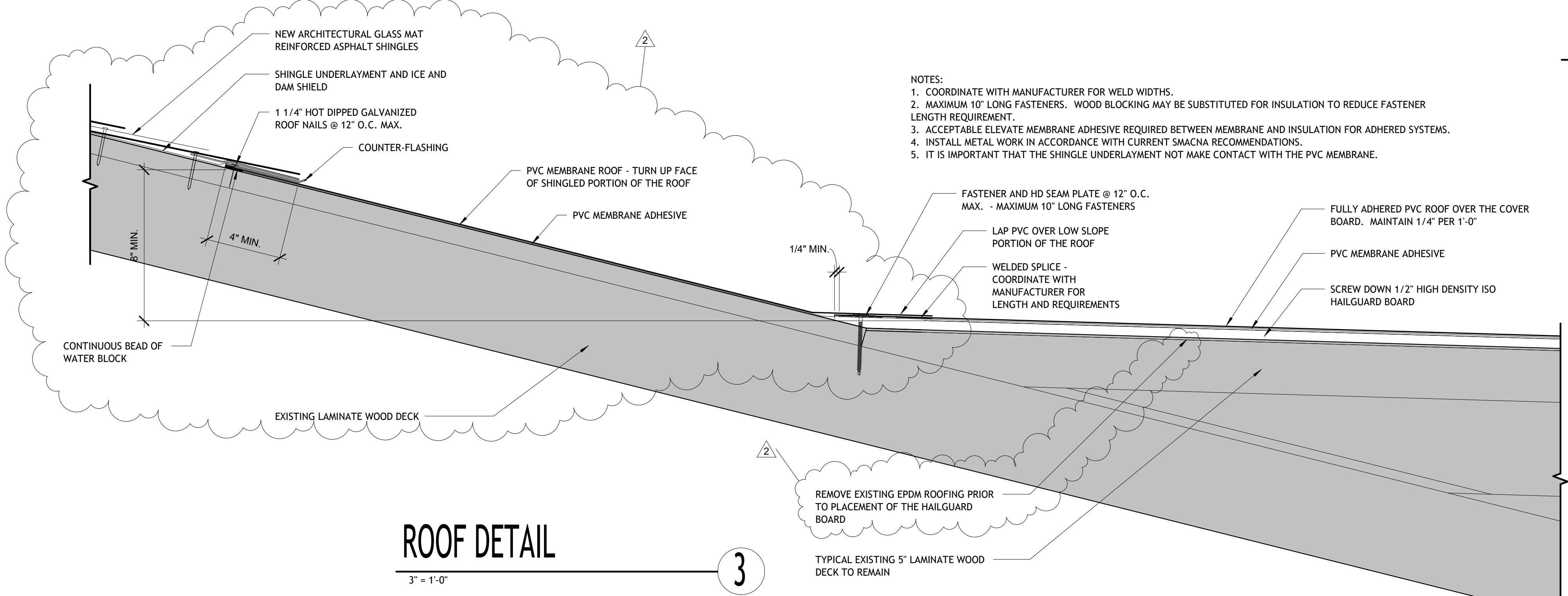
**GALVANIZED METAL CLEAT**



**ROOF DETAIL**

3" = 1'-0"

6



**ROOF DETAIL**

3" = 1'-0"

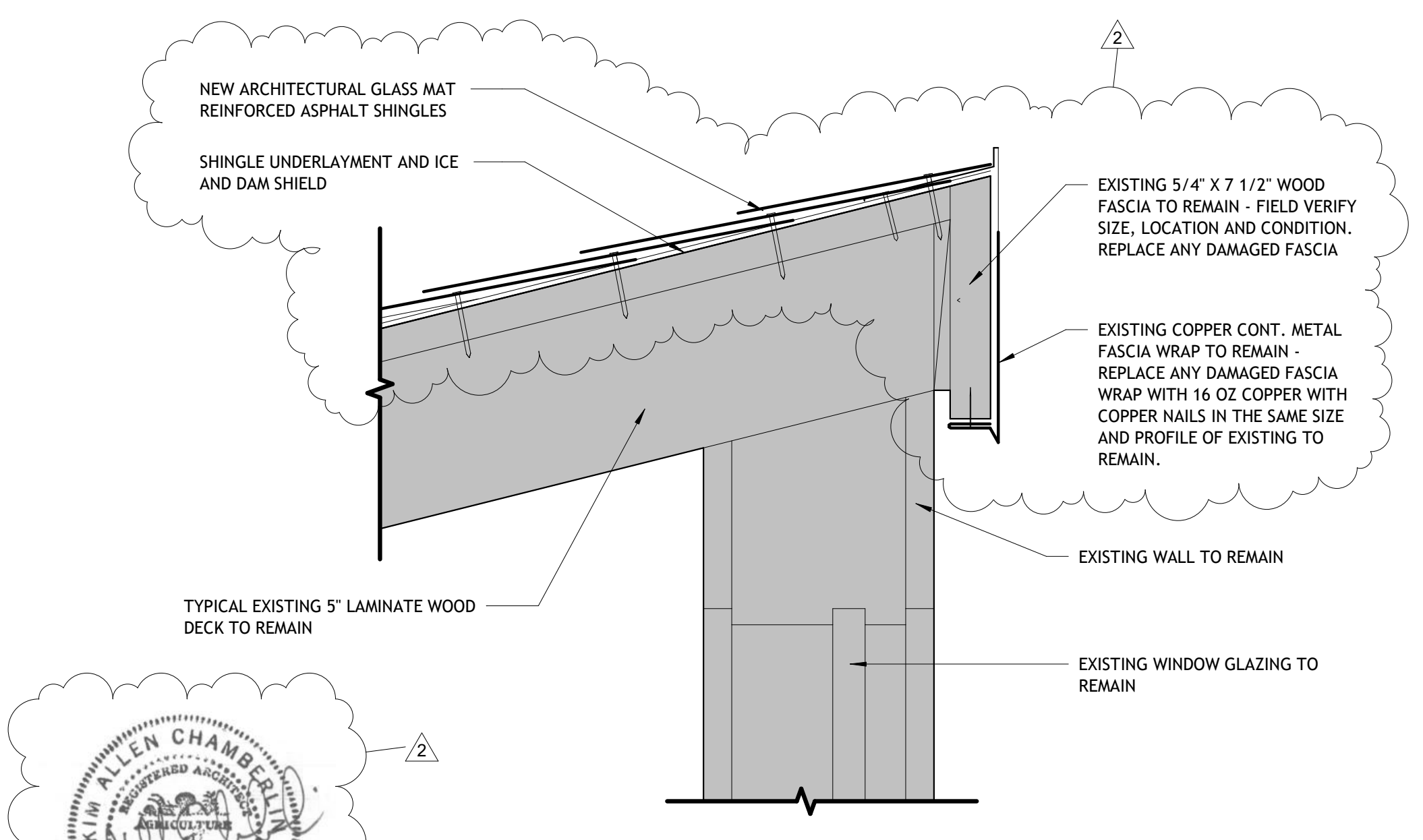
3

- NOTES:
1. COORDINATE WITH MANUFACTURER FOR WELD WIDTHS.
  2. MAXIMUM 10" LONG FASTENERS. WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT.
  3. ACCEPTABLE ELEVATE MEMBRANE ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR ADHERED SYSTEMS.
  4. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.
  5. IT IS IMPORTANT THAT THE SHINGLE UNDERLAYMENT NOT MAKE CONTACT WITH THE PVC MEMBRANE.

**ES-1 COMPLIANT FASCIA**

3" = 1'-0"

5



**ROOF DETAIL**

3" = 1'-0"

7

CRAFT CENTER UPGRADES  
TENNESSEE TECH UNIVERSITY  
SBC NO. 364/031-01-2023  
COOKEVILLE, TN 38501

Upland Design Group  
UP AND DESIGN GROUP, INC.  
362 INDUSTRIAL BLVD.  
CROSSVILLE, TN 38555  
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FAX: 931-464-2351

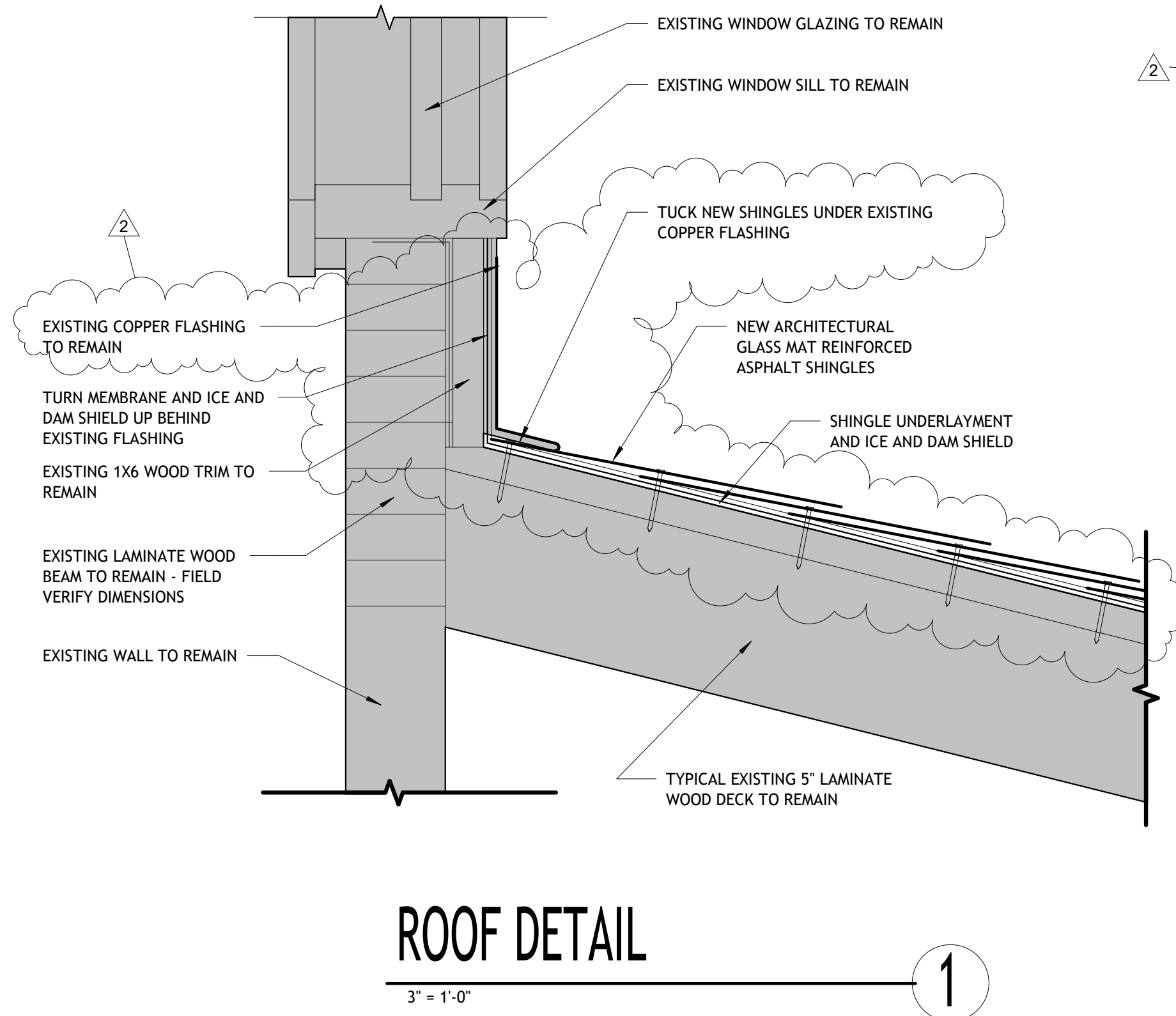
MAFFETT OFFICE  
ENGINEERS ARCHITECTS  
15 JEFFERSON AVENUE, STE 101  
COOKEVILLE, TN 38501  
TEL: (931) 526-5143  
www.maffettchris.com

Revisions indicated w/ Δ

No.	Date	Description
2	12-13-24	ADDendum #1

**A1.5**  
SHEET: ROOF DETAILS  
TITLE:  
JOB NO. 23028 DATE: 09-27-2024  
DWN BY: CND

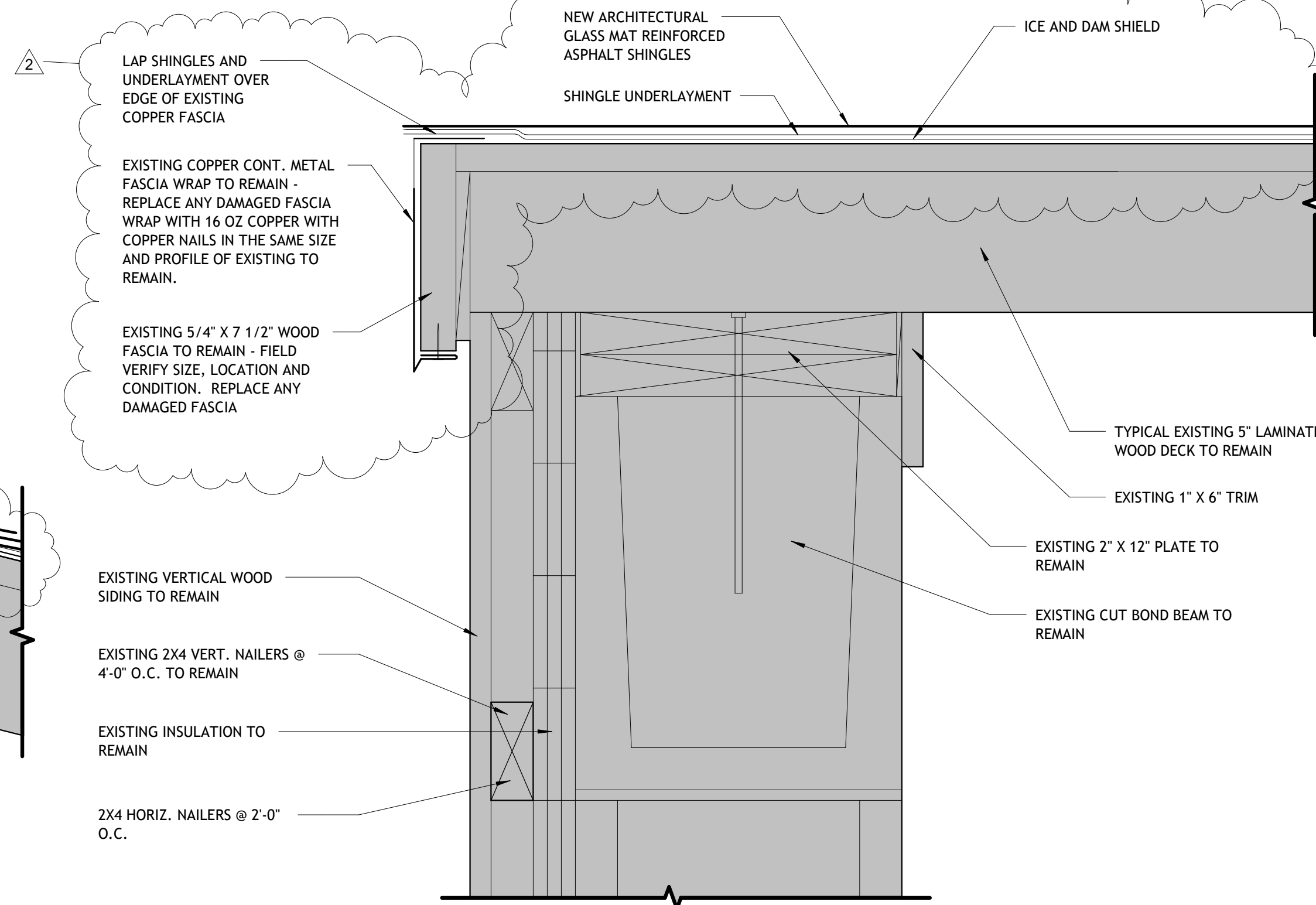




ROOF DETAIL

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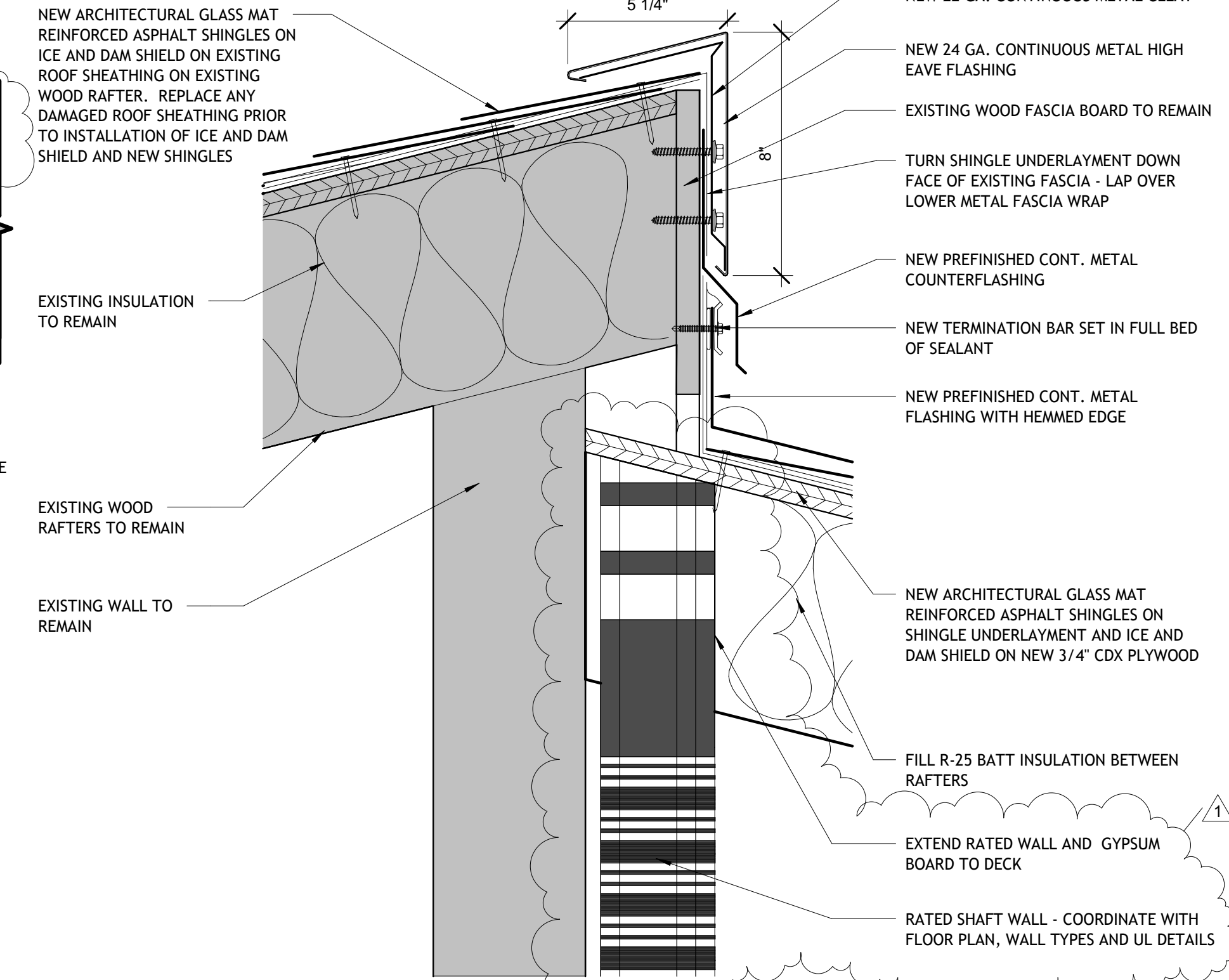
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ROOF DETAIL

3" = 1'-0"

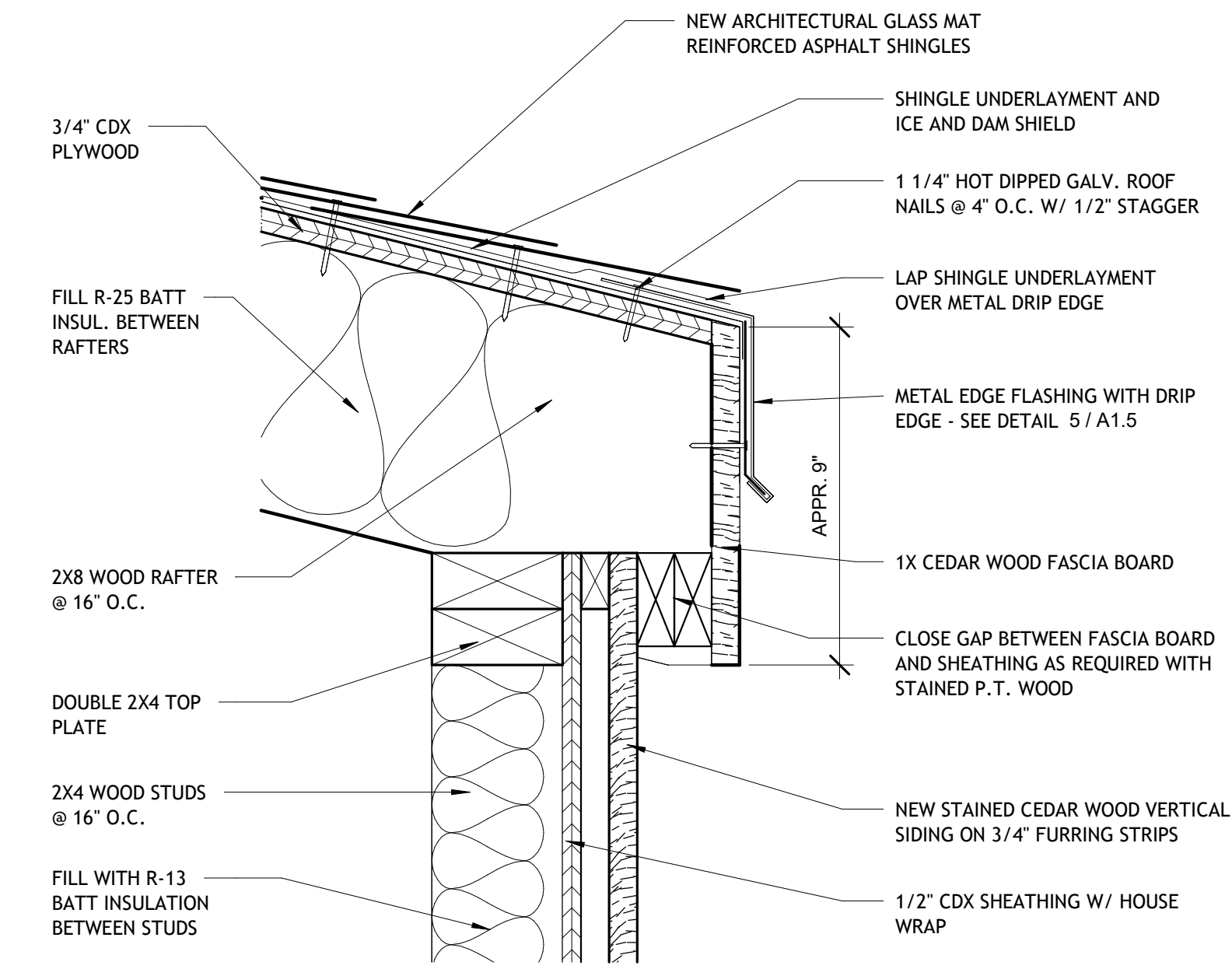
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ROOF DETAIL

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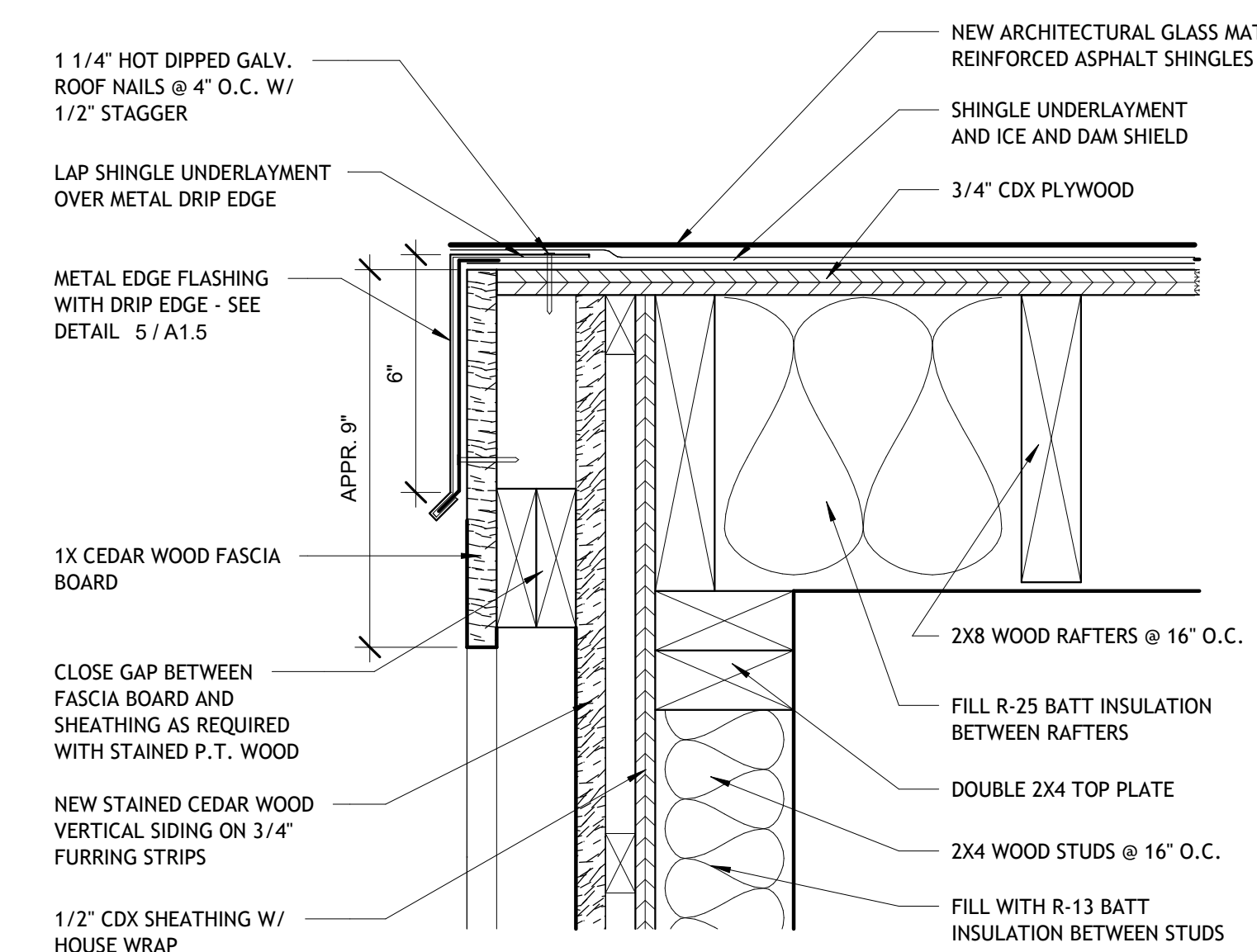
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ROOF DETAIL

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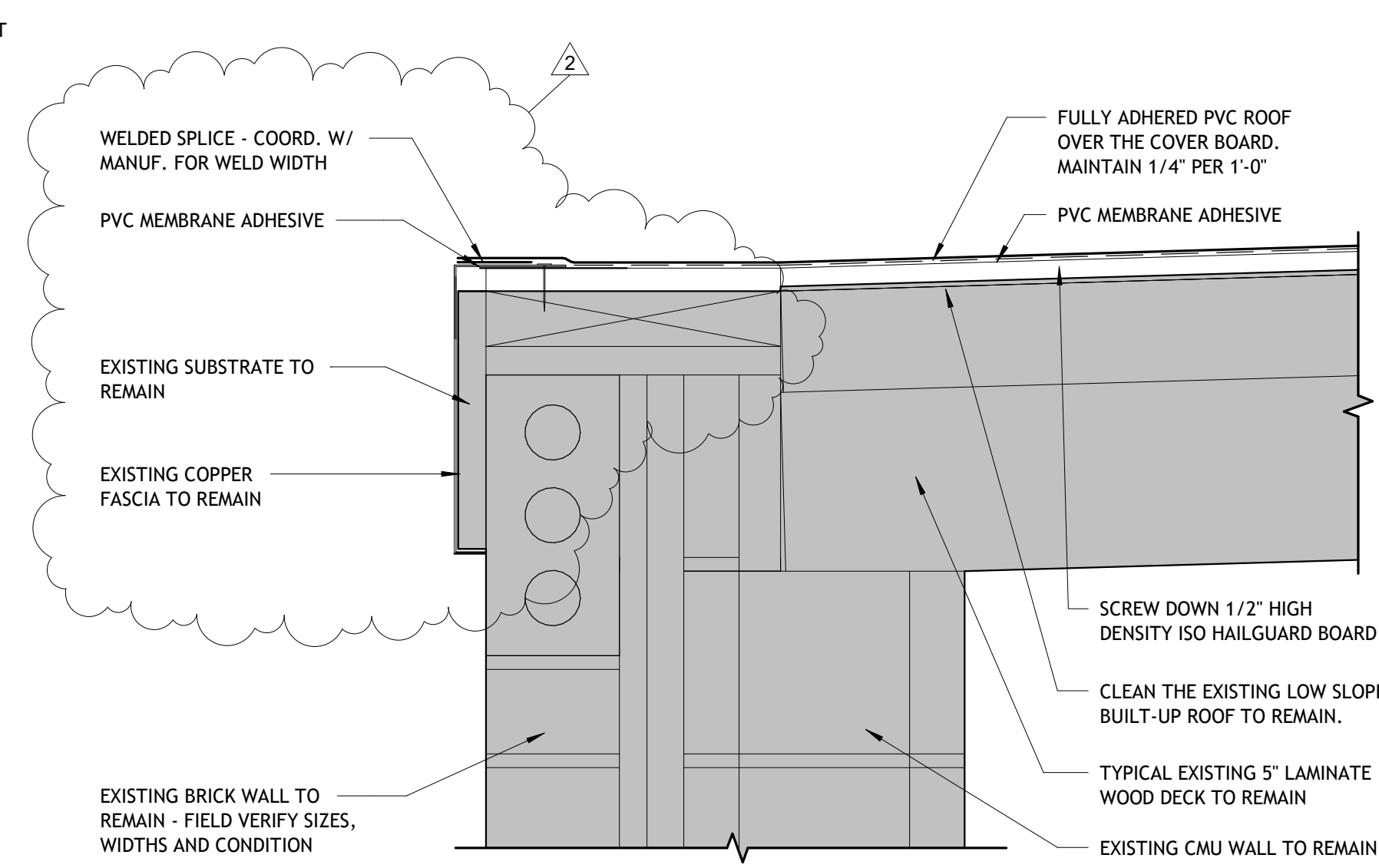
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ROOF DETAIL

3" = 1'-0"

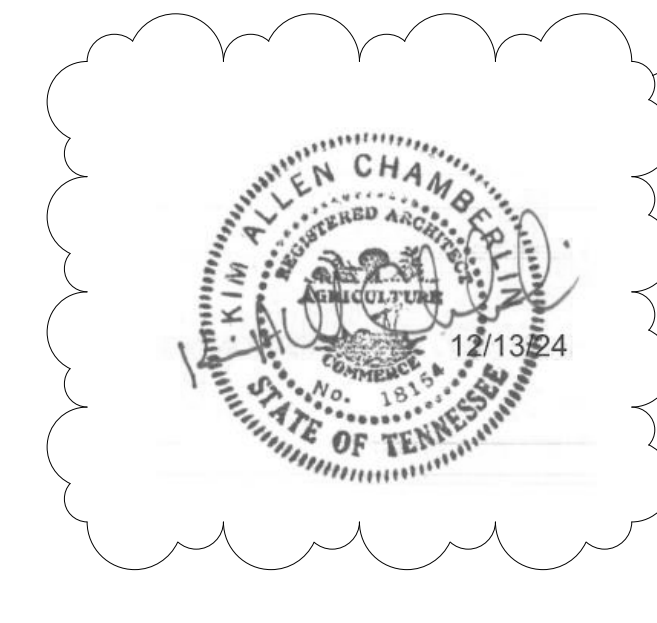
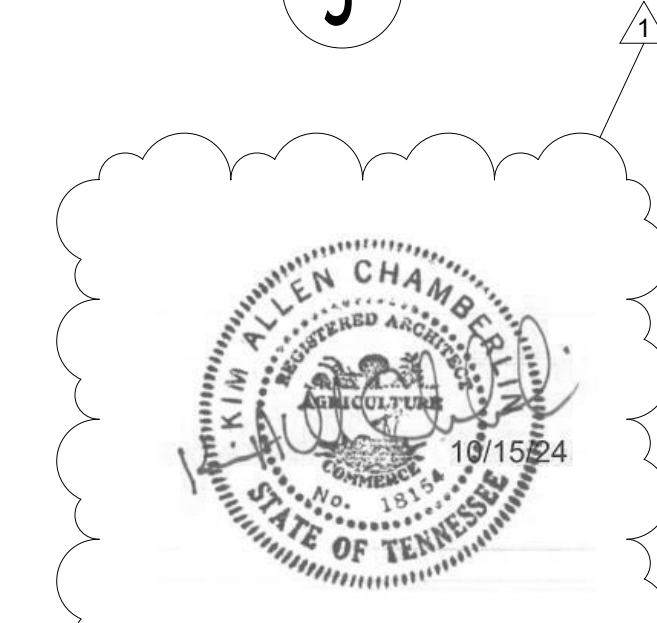
5



ROOF DETAIL

3" = 1'-0"

6



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Revisions indicated w/ Δ

No.	Date	Description
1	10-15-24	FIRE MARSHAL RESPONSE
2	12-13-24	ADDENDUM #1

**A1.6**  
 SHEET: ROOF DETAILS  
 TITLE:  
 JOB NO.: 23028  
 DATE: 09-27-2024  
 DWN BY: CND

