

UNIVERSITY OF LOUISVILLE®

PROCUREMENT SERVICES ADDENDUM

Date of Notice:	7/26/2024
Solicitation No.:	IB-001-25
Title:	Belknap Campus Roof Replacements BP-3
Addendum No.:	1

The following pages shall clarify and/or modify the original bid document(s) as issued by the University of Louisville.

Proposer must acknowledge receipt of this and any addenda either with proposal or by separate letter. Acknowledgement must be received in the Department of Procurement Services, Service Complex Building, University of Louisville no later than **8/6/2024 at 12:00PM, EST**. If by separate letter, the following information must be placed in the lower left-hand corner of the envelope:

Solicitation No.:	IB-001-25
Title:	Belknap Campus Roof Replacements BP-3
Due Date:	8/6/2024 at 12:00PM, EST.

Authorized By:

Procurement Services	
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Receipt Acknowledged:

Company	
Signature	
Name (print)	
Date	

IB-001-25

Vendor Questions

1. While we were onsite today completing the roof core cuts at Strickler Hall we found that the Lightweight Insulated Concrete Deck was wet and deteriorated and I suggest that there be a pull test completed to make sure the LWIC will meet the required pull out for the fasteners.

University Response: Fastener pull out testing is required per the specification section "07 01 50.19 Preparation for Reroofing" Part 3, 3.7 Fastener Pull-Out Testing.

2. Details 1-4 on R-520 new roof systems call for a layer of 2" ISO and detail 2.1 calls for 1" Dens Deck. Specs call for a layer of 2.2" ISO and ½" Dens Deck. Can you please verify which is correct.

University Response: The drawings will preside. One layer of 2" insulation and ½" Dens Deck is required at each roof area at each building.

3. On the wood deck and lightweight concrete roof areas it doesn't show a nail able base to the deck before installation of base sheet vapor barrier. This is required by the manufacturer for this system.

University Response: Install separator sheet per the manufacturer's installation instructions for attachment to lightweight concrete or wood sheathing. Separator sheet can be: MB Base by Elevate, PermaPly 28 by Johns Manville or Parabase by Siplast.

4. Detail 1, 5 and 7 on R-521 show new flashing to attach to existing copper flashing. The specs call for all aluminum flashings. Copper and aluminum aren't compatible metals. Please confirm all metals are to be aluminum.

University Response: Where new metal is in contact with existing copper, the metal flashing will be copper. Refer to specification section "07 62 00 Sheet Metal Flashing and Trim" Part 2, 2.5 Sheet Metal Fabrications for copper weight.

5. Can you please provide the tunnel plans for around Strickler Hall. Need to reference for crane lifting.

University Response: Please see Exhibit G (UofL Tunnel Info) below.

6. Can we please confirm and mark that the electrical has been disconnected for the satellite that gets removed from Strickler Hall.

University Response: The Electrical or any power connection to the satellite dish will be disconnected. Contractor to remove cables and conduits associated with it on the roof.

7. Roof area A on Ernst Hall has a slope of 1.5"x12. All manufacturers require that the sheets run vertical and back nailing of the base and cap.

University Response: Install pressure treated wood battens as needed to attach base, insulation, cover board and cap sheets to sloped metal deck, per the manufacturer's installation instructions.

8. Spec section 03 37 60 – Prepackaged Mortar Repair. I don't see anything in the scope of work or drawings for any Mortar Repairs needed. Please confirm.

University Response: This specification section refers to Work Item 1.0.2 Concrete Floor Repairs. This work item is for isolated patch repairs to the lightweight concrete topping at Strickler and Ernst. See specification section "02 00 10 Work Items".

Kyle Pawlak

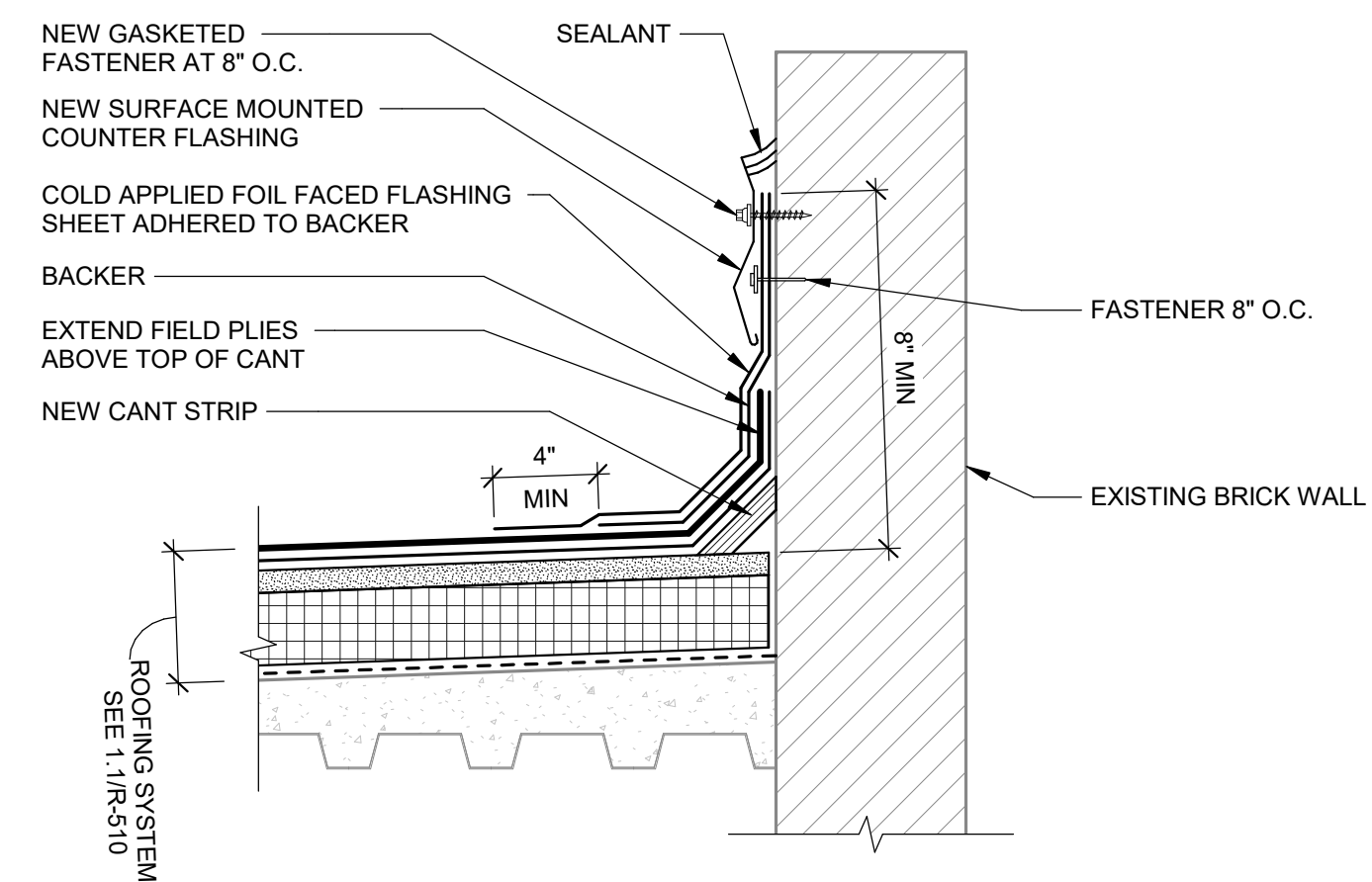


REMOVE AND DISPOSE OF MICROWAVE DISH

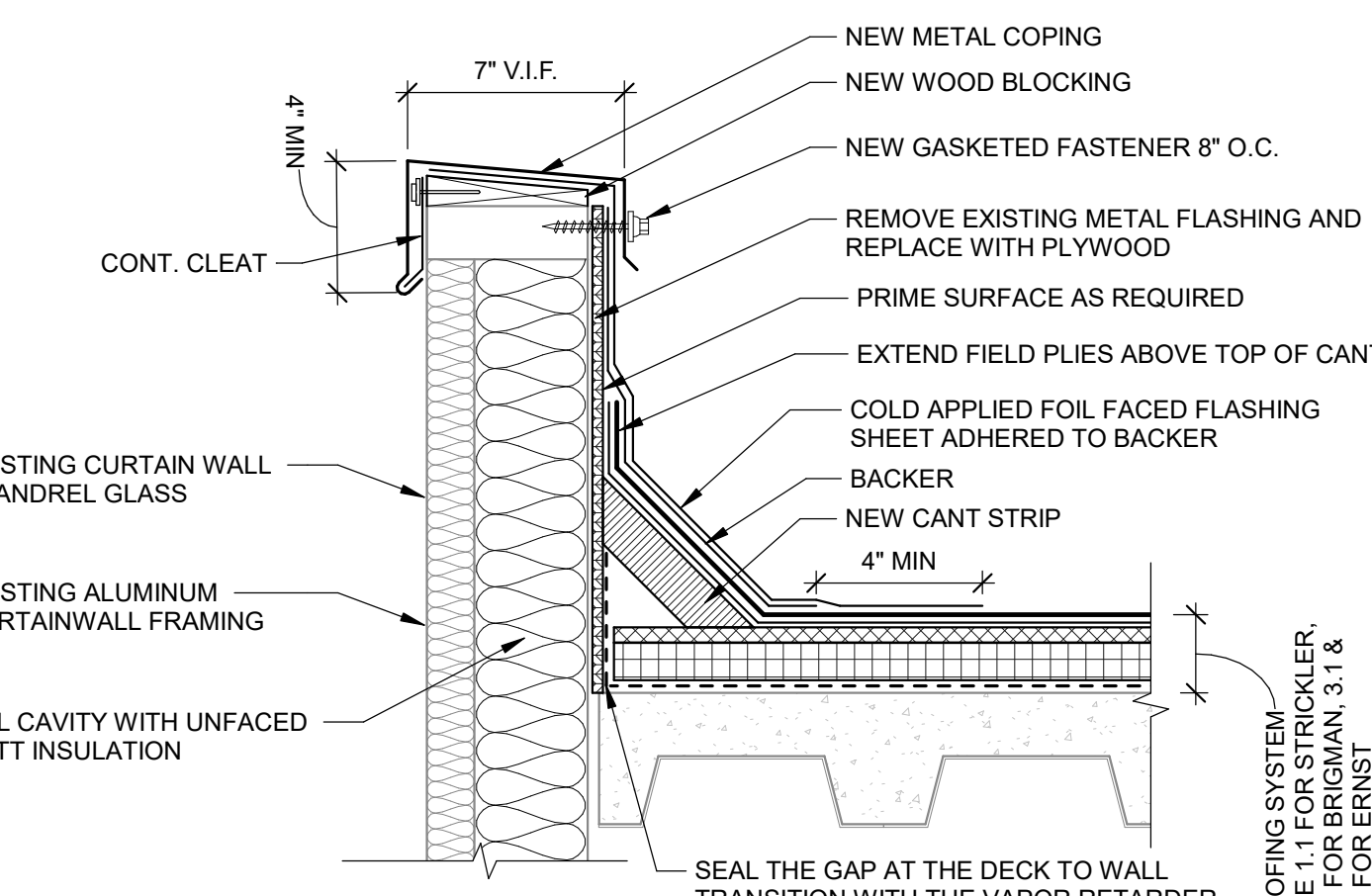
REMOVE AND DISPOSE OF MICROWAVE DISH FRAME AND BALLAST

REMOVE AND DISPOSE OF MICROWAVE DISH CABLES TO THE CURB

15 REMOVE AND DISPOSE OF MICROWAVE DISH (STRICKLER HALL)

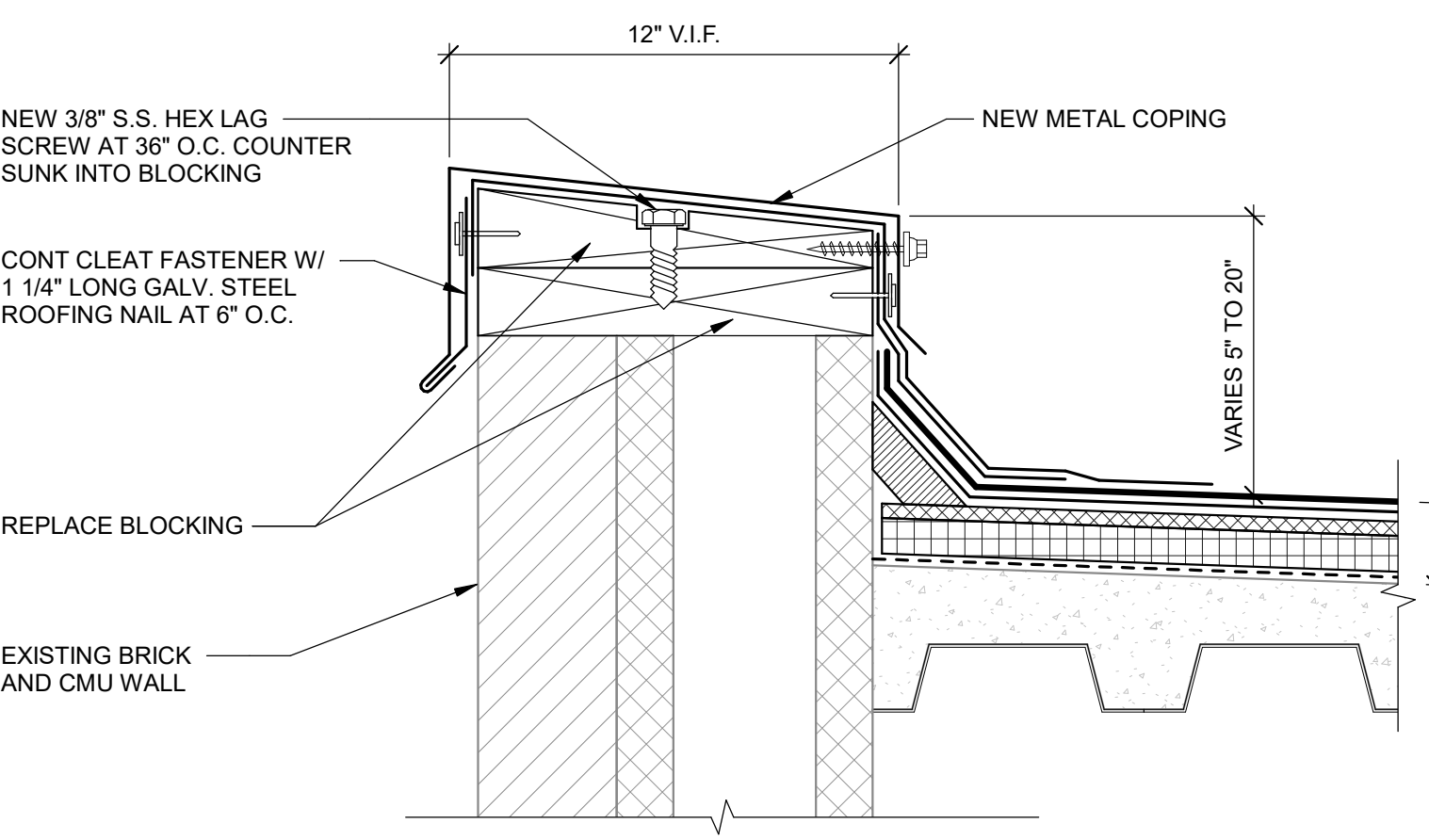


14 SURFACE TERMINATION

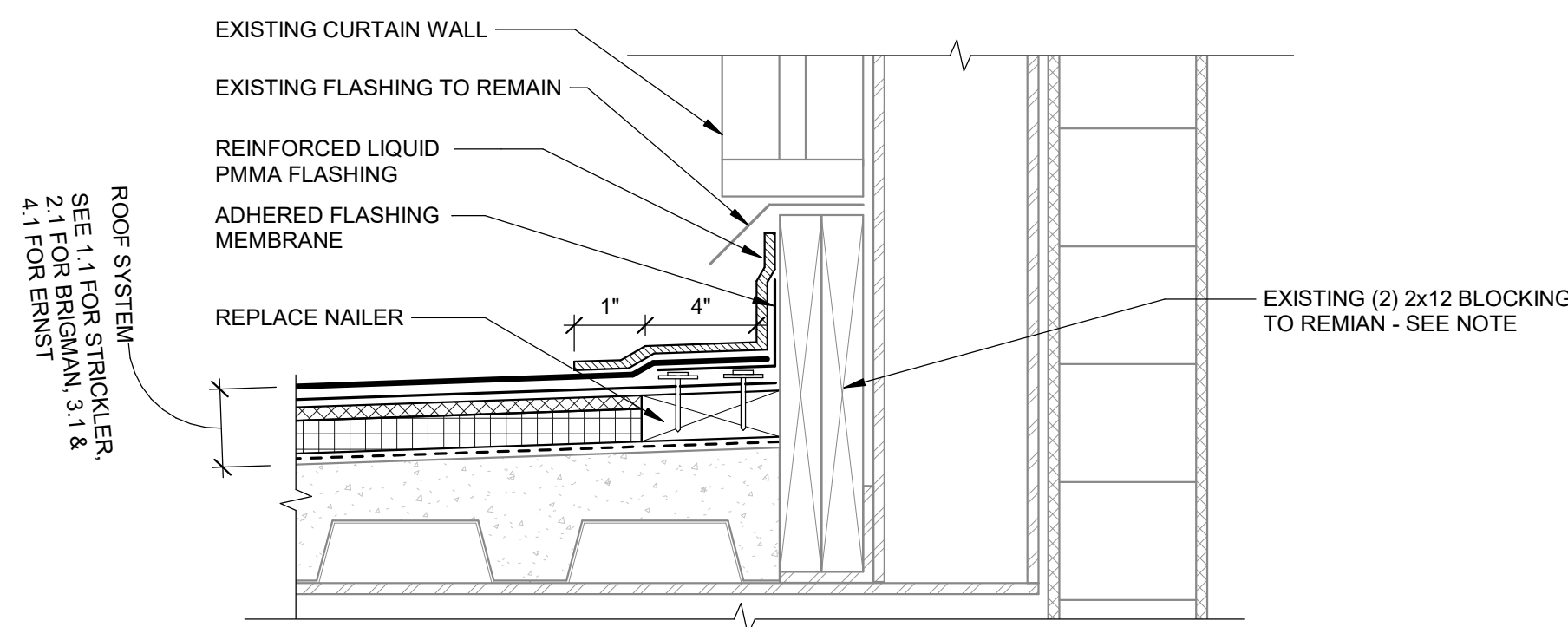


13 PARAPET AT CURTAIN WALL

NOTE: ADDITIONAL WOOD BLOCKING MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM OR TO REPLACE DETERIORATED BLOCKING.

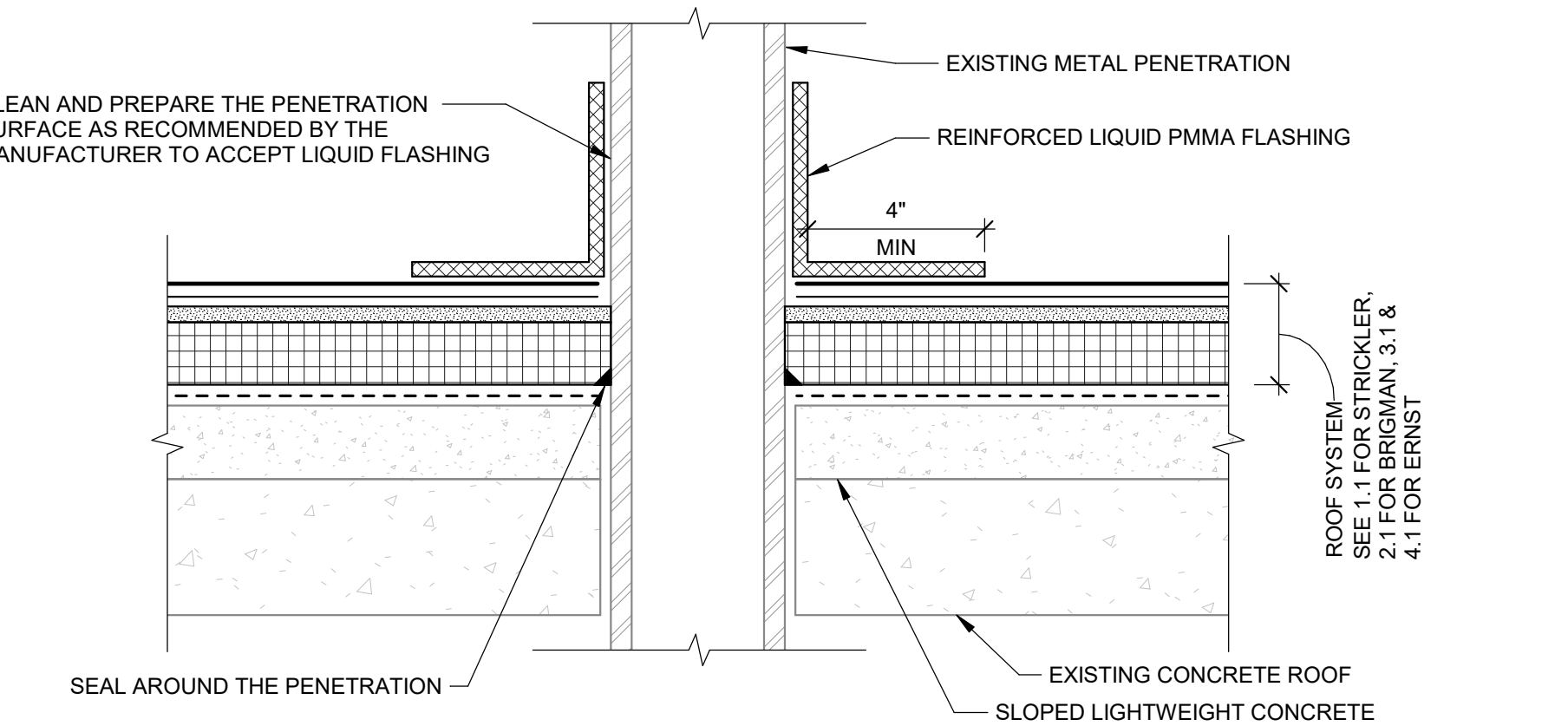


12 ROOF TERMINATION AT MASONRY PARAPET



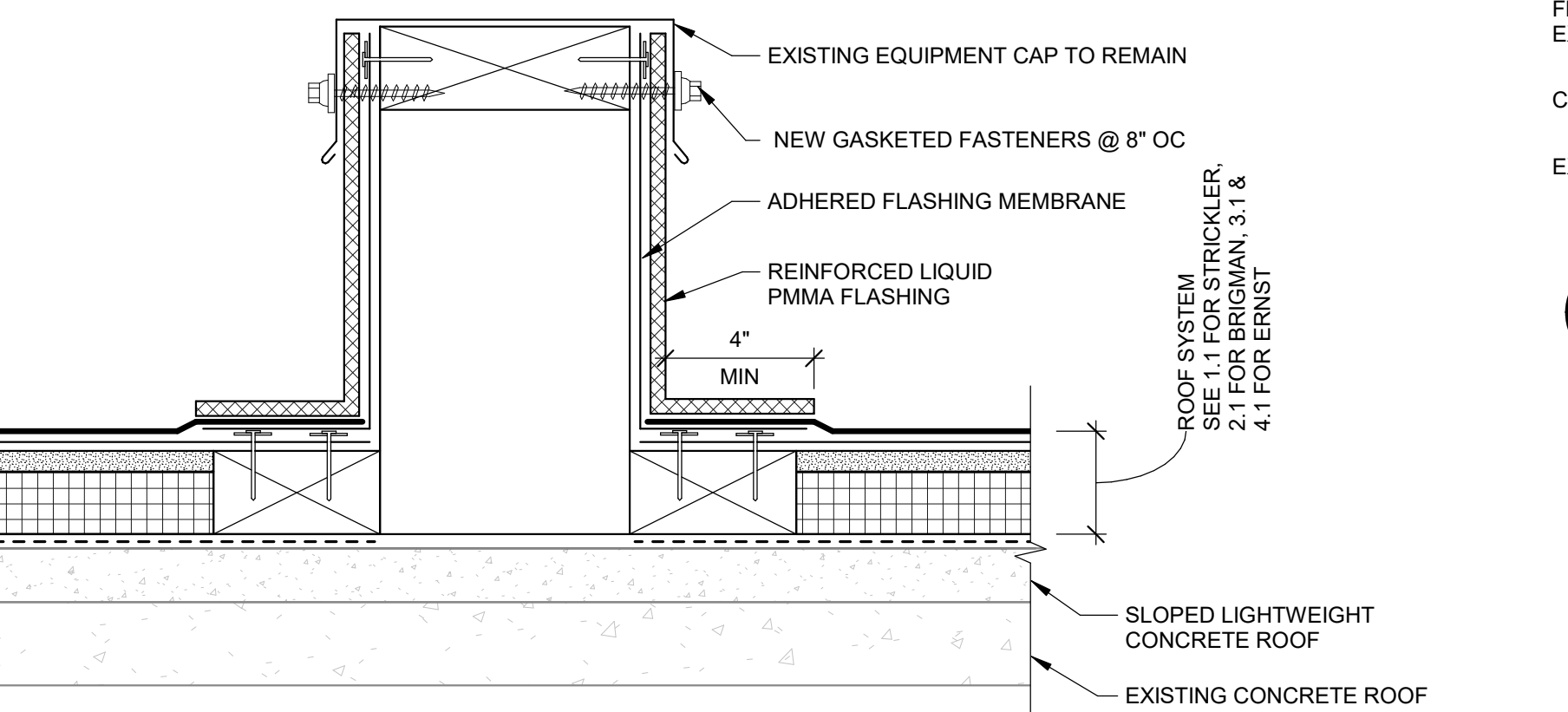
11 ROOF TERMINATION @ CURTAIN WALL

NOTE: ADDITIONAL WOOD BLOCKING MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM OR TO REPLACE DETERIORATED BLOCKING.



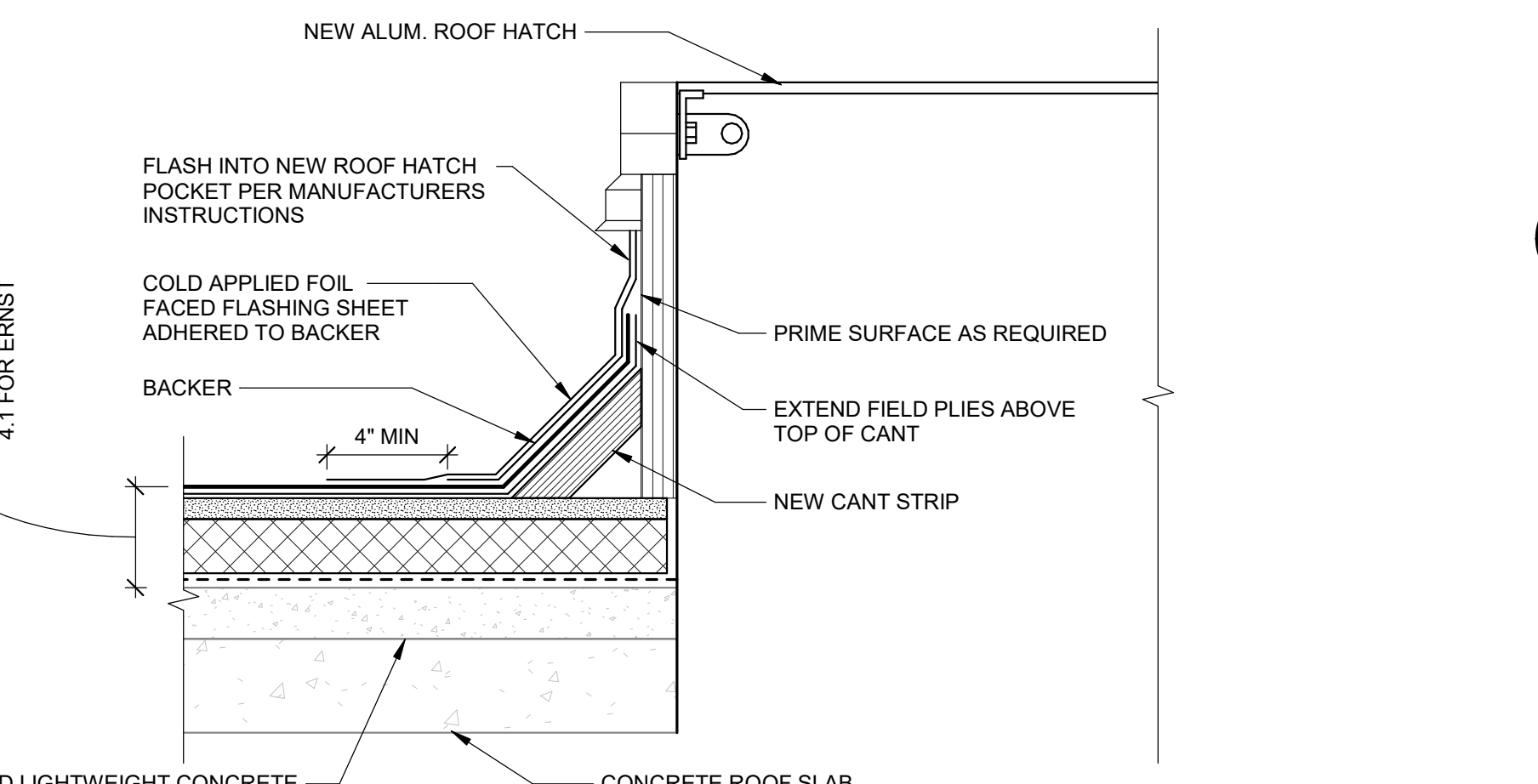
10 METAL PENETRATION DETAIL

NOTE: DETAIL SIMILAR FOR METAL DECKING ROOF. CONTRACTOR TO USE MANUFACTURER RECOMMENDED MATERIAL TO FILL OPENING IN DECKING.



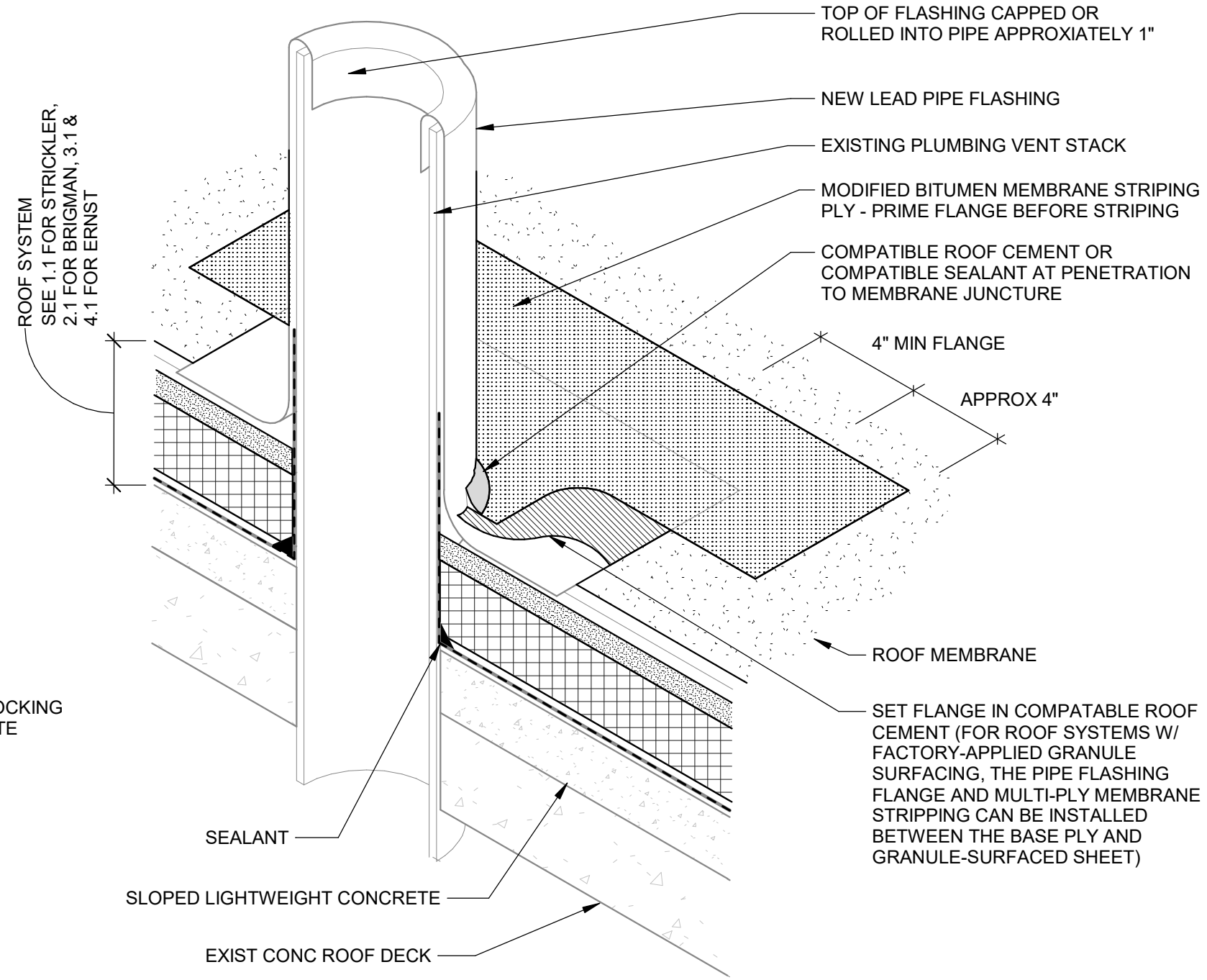
9 EQUIPMENT CURB DETAIL

NOTE: DETAIL SIMILAR FOR METAL DECKING ROOF. CONTRACTOR TO USE MANUFACTURER RECOMMENDED MATERIAL TO FILL OPENING IN DECKING.



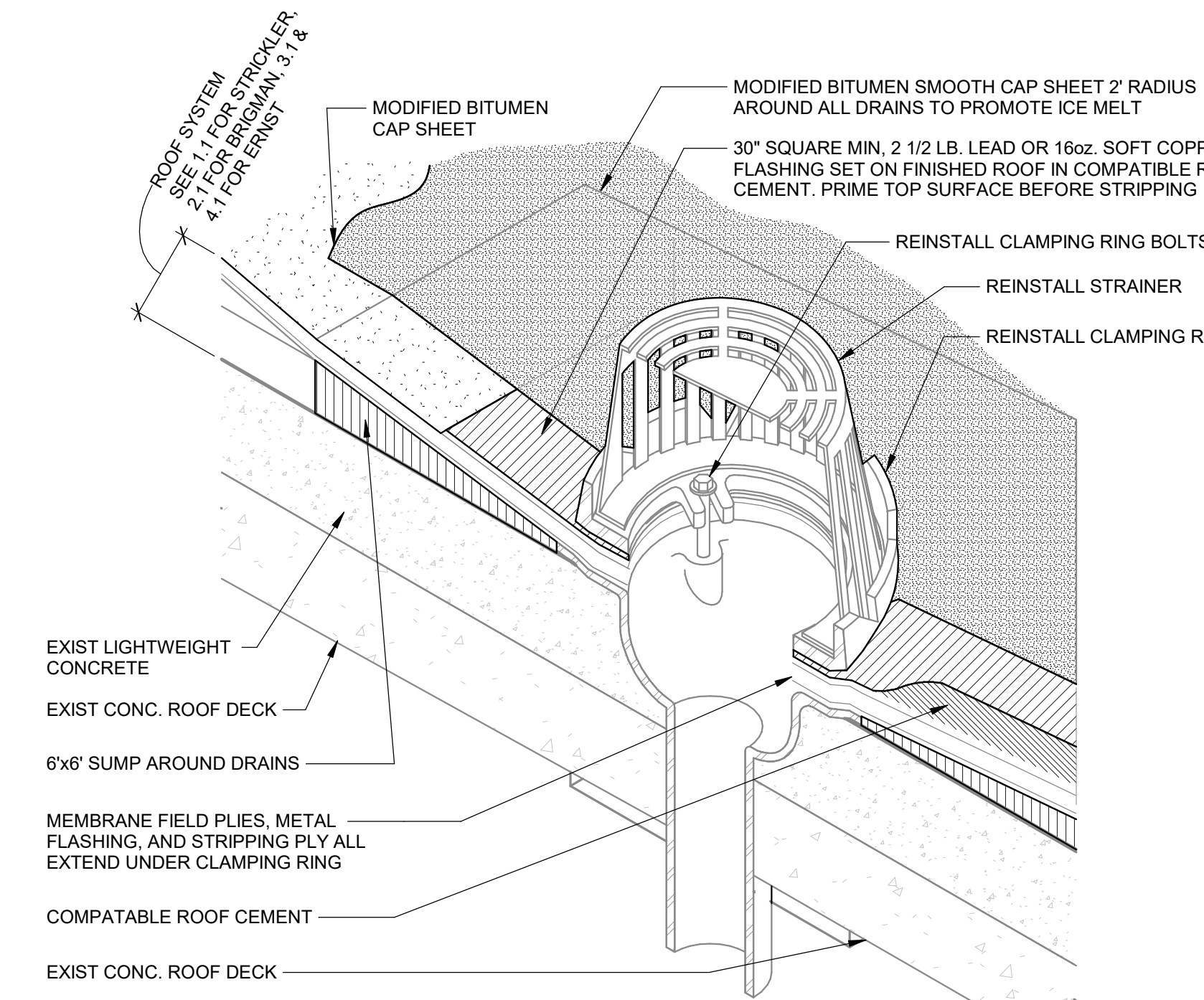
8 ROOF HATCH DETAIL

NOTE: DETAIL SIMILAR FOR METAL DECKING ROOF. CONTRACTOR TO USE MANUFACTURER RECOMMENDED MATERIAL TO FILL OPENING IN DECKING.

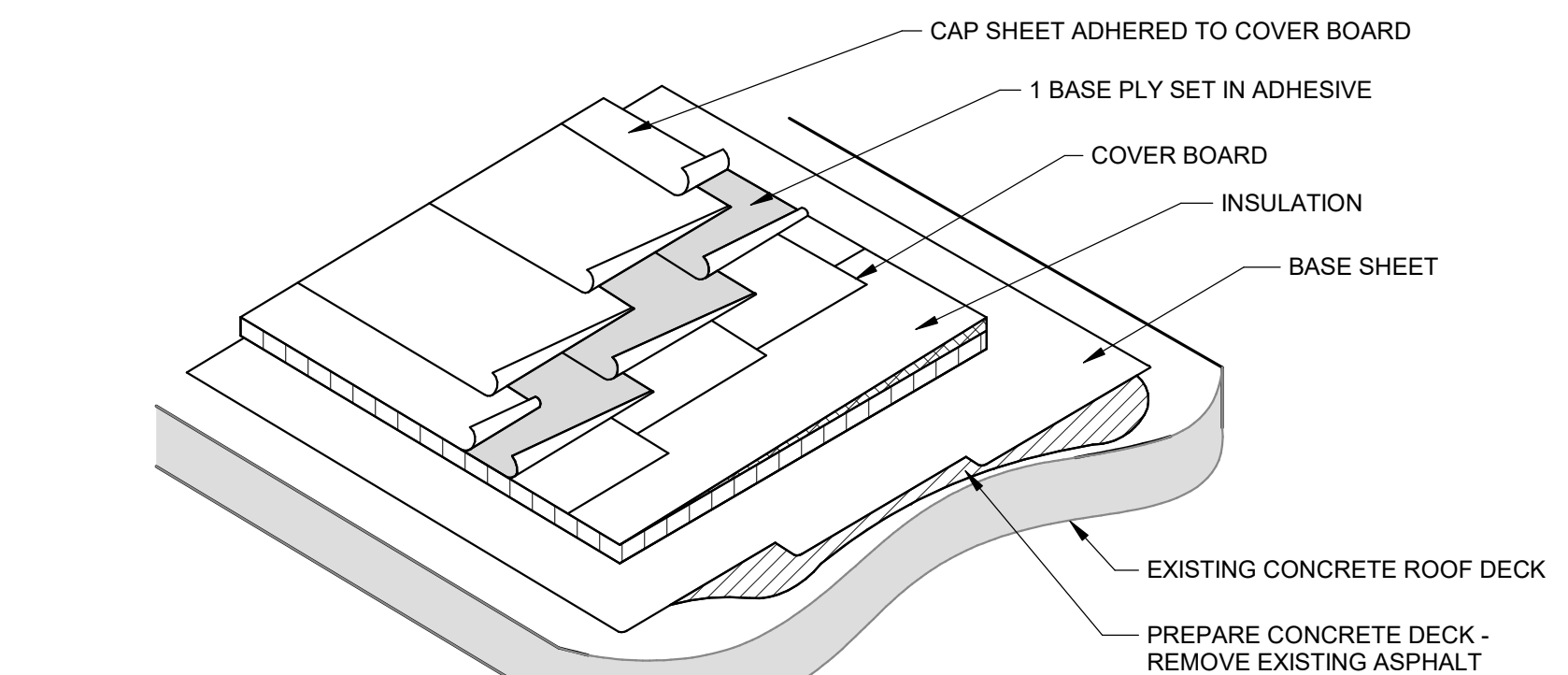


7 PLUMBING VENT FLASHING

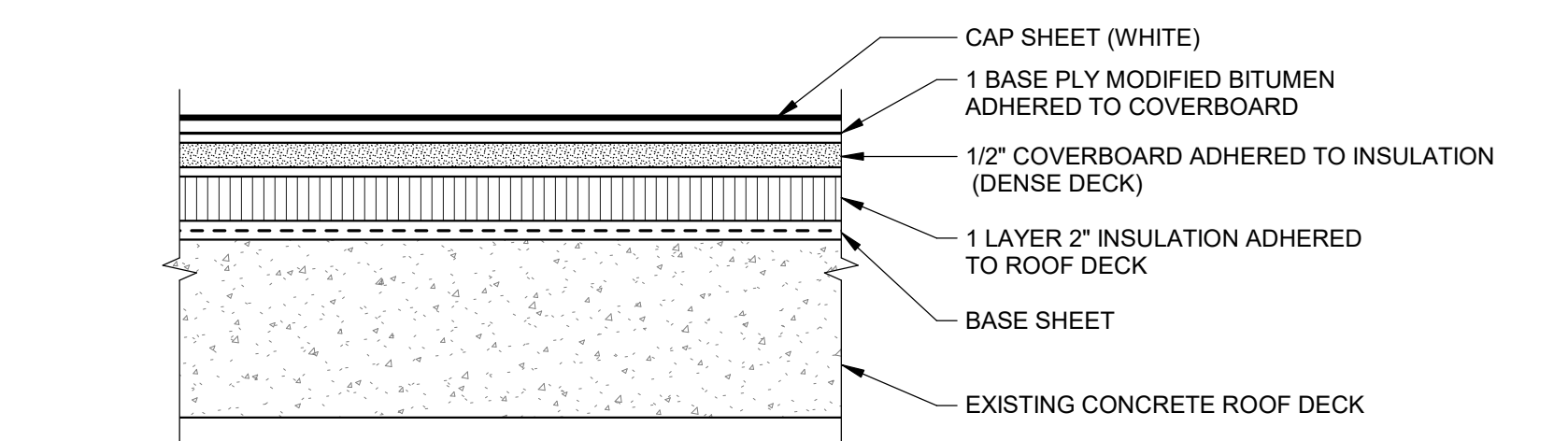
NOTE: DETAIL SIMILAR FOR METAL DECKING ROOF. CONTRACTOR TO USE MANUFACTURER RECOMMENDED MATERIAL TO FILL OPENING IN DECKING.



6 ROOF DRAIN DETAIL

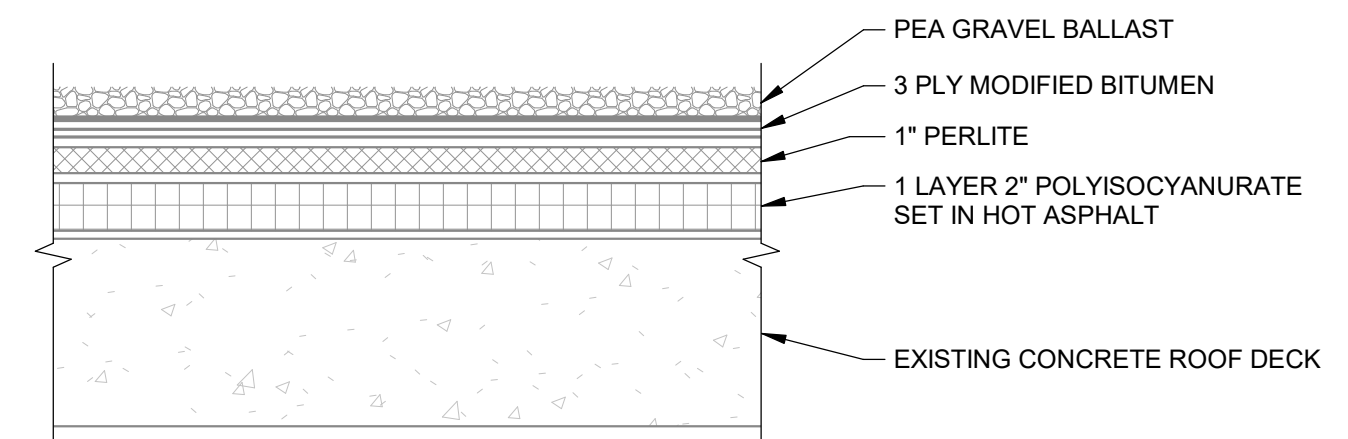


5 TYPICAL SYSTEM DETAIL



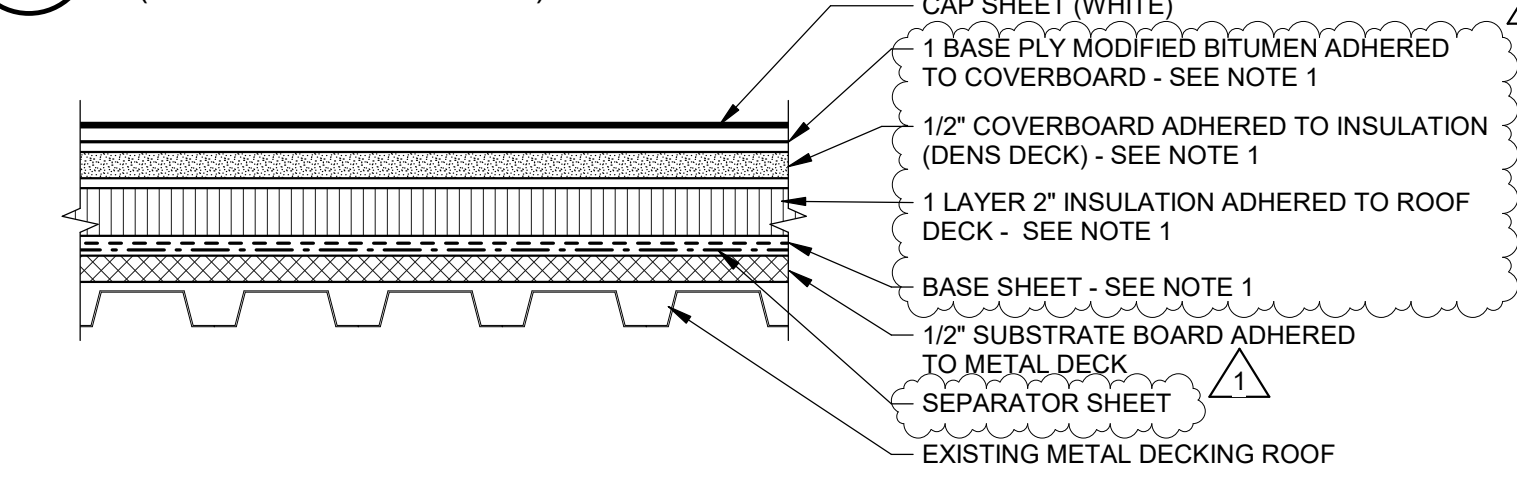
4.1 TYPICAL NEW ROOFING SYSTEM - ERNST ROOF B

NOTE: PROVIDE 1/2" SUBSTRATE BOARD AT METAL DECKS.



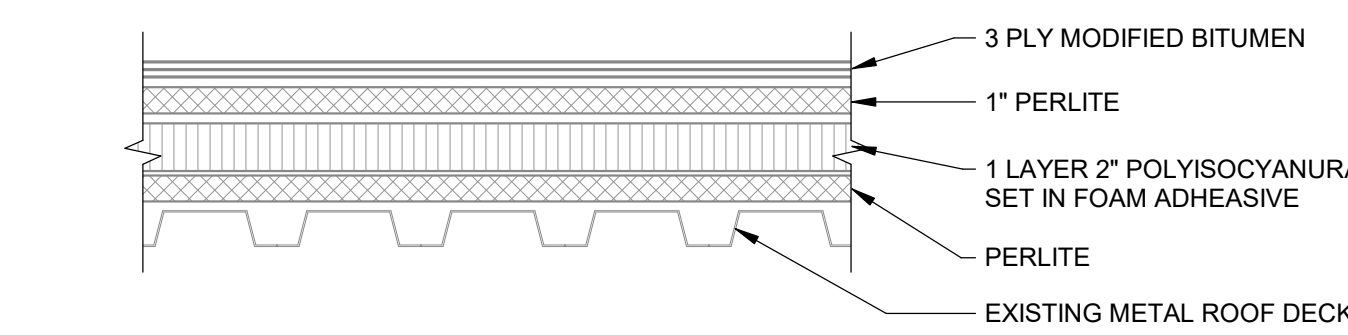
NOTES:
1. CONTRACTOR TO INSPECT THE CONCRETE ROOF DECK FOR SIGNS OF CRACKING, DELAMINATION, SPALLING AND DETERIORATION DURING THE COURSE OF ROOFING REMOVAL. NOTIFY THE OWNER AND ENGINEER/ARCHITECT OF SIGNS OF DETERIORATION PRIOR TO INSTALLATION OF NEW MATERIALS.
2. REMOVE ASPHALT FROM ROOF DECK AND PREPARE CONCRETE DECK AS RECOMMENDED BY THE ROOFING MANUFACTURER.
3. FULLY CLEAR ALL LOOSE DEBRIS (INCLUDING EXISTING BALLAST AND OTHER MISC MATERIAL DISTRIBUTED BY ROOF REMOVAL OPERATIONS) PRIOR TO COMMENCEMENT OF NEW ROOF SYSTEM INSTALLATION

4 TYPICAL ROOFING SYSTEM - ERNST ROOF B (FOR REFERENCE ONLY)

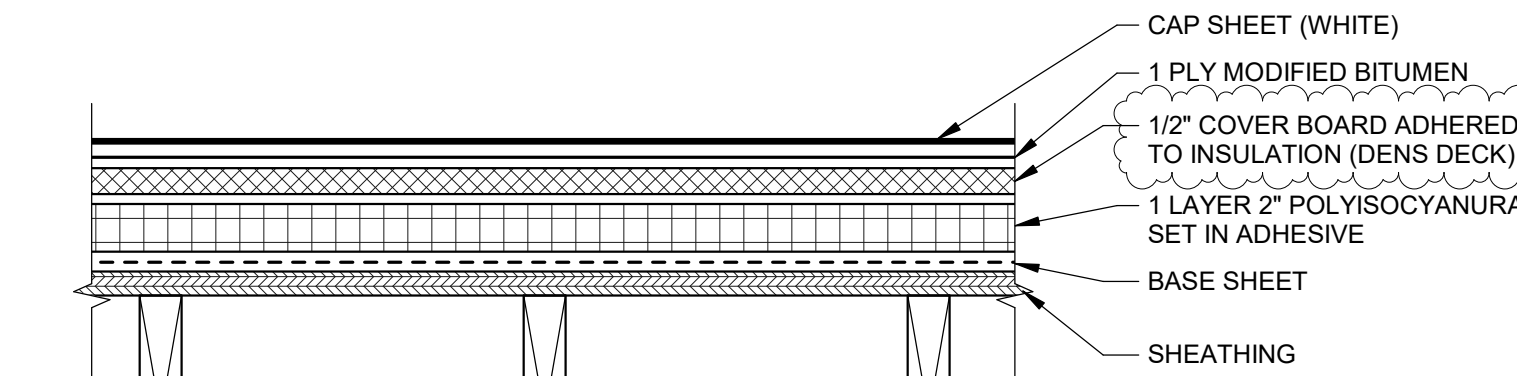


3.1 TYPICAL NEW ROOFING SYSTEM - ERNST ROOF A

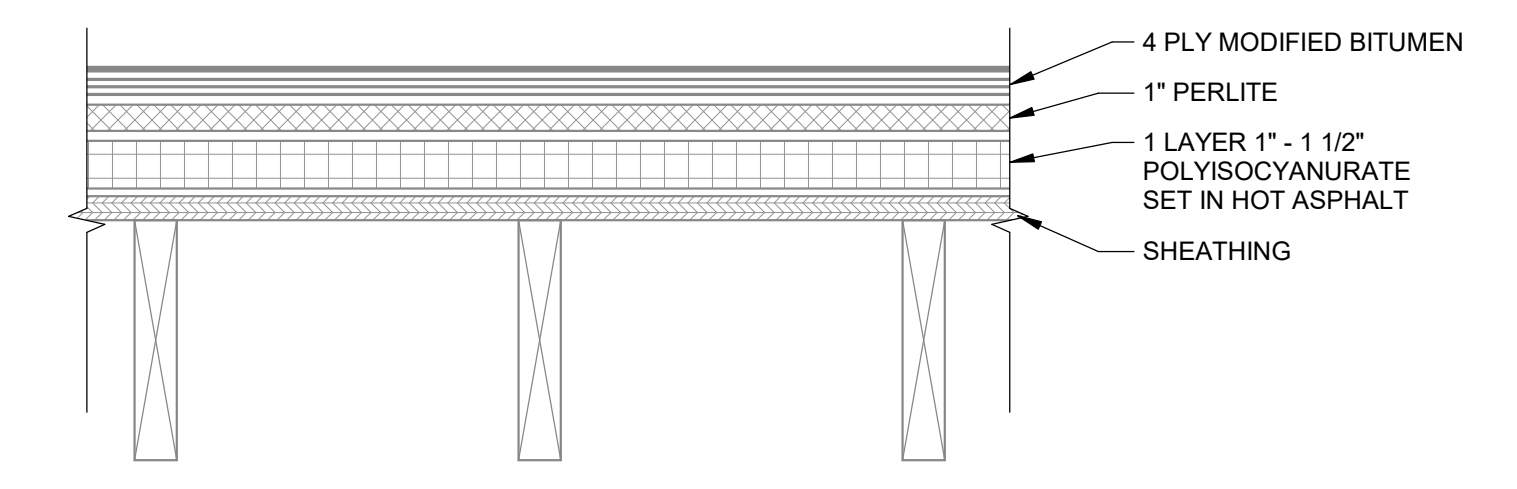
NOTE: INSTALL PRESSURE TREATED WOOD BATTENS AS NEEDED TO ATTACH BASE, INSULATION, COVER BOARD AND CAP SHEETS TO SLOPED METAL DECK, PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.



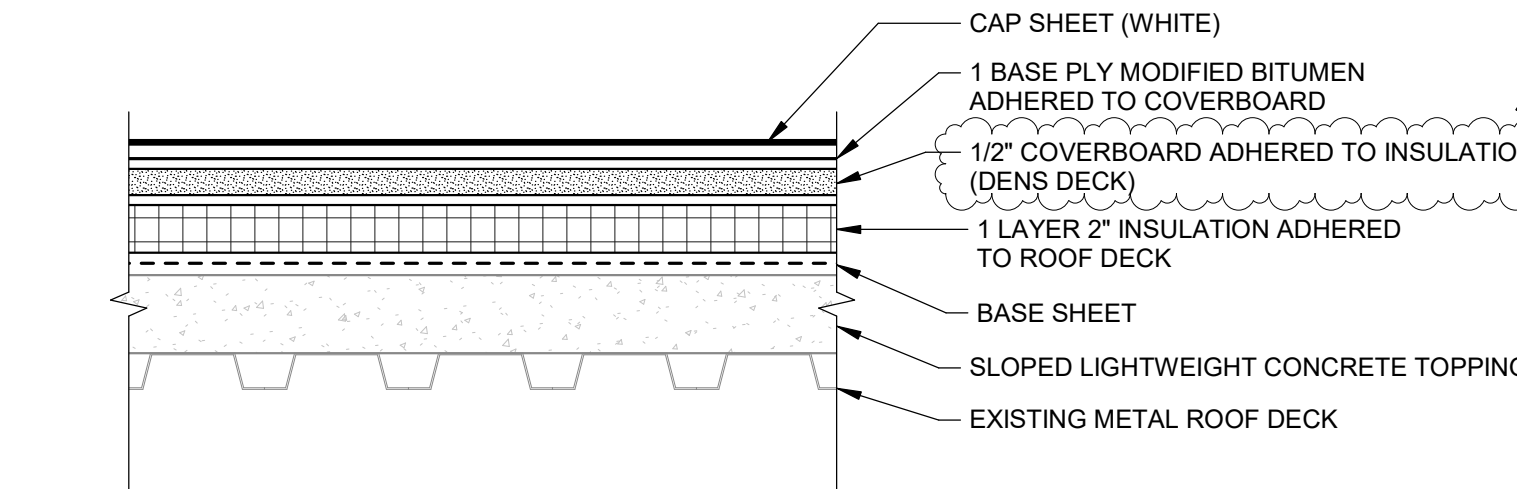
3 TYPICAL ROOFING SYSTEM - ERNST ROOF A (FOR REFERENCE ONLY)



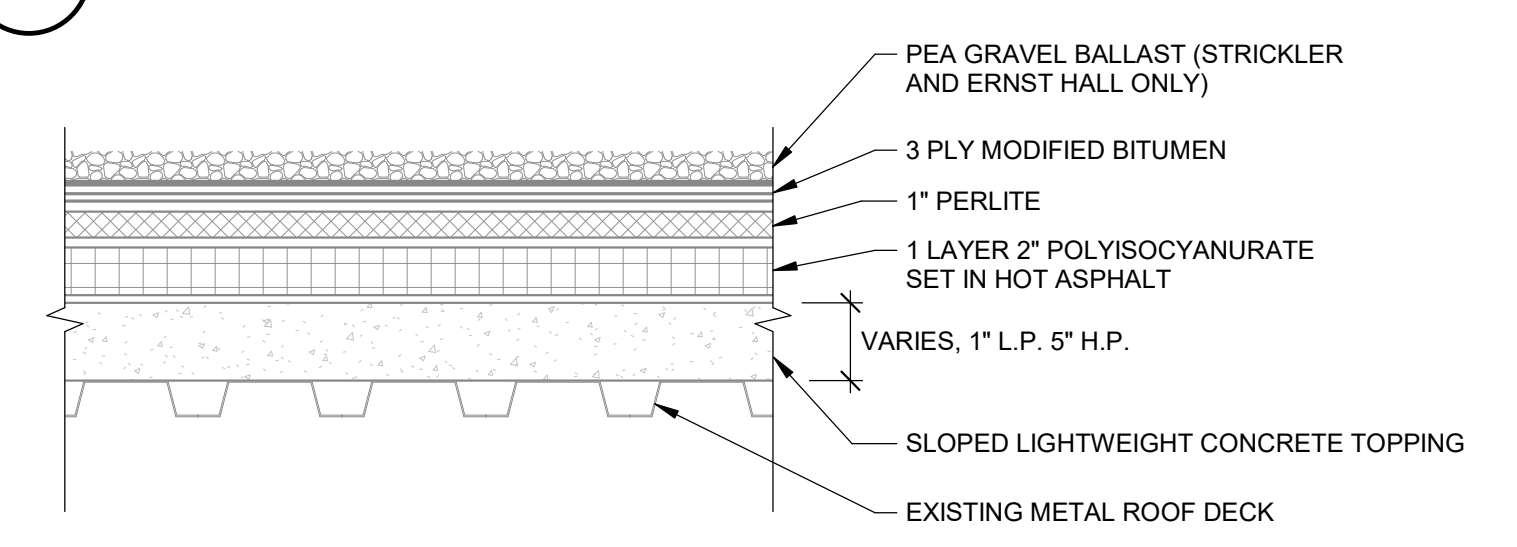
2.1 TYPICAL NEW ROOFING SYSTEM - BRIGMAN



2 TYPICAL ROOFING SYSTEM - BRIGMAN (FOR REFERENCE ONLY)



1.1 TYPICAL NEW ROOFING SYSTEM - STRICKLER



1 TYPICAL ROOFING SYSTEM - STRICKLER (FOR REFERENCE ONLY)

NOTES:
1. CONTRACTOR TO INSPECT THE CONCRETE ROOF DECK FOR SIGNS OF CRACKING, DELAMINATION, SPALLING AND DETERIORATION DURING THE COURSE OF ROOFING REMOVAL. NOTIFY THE OWNER AND ENGINEER/ARCHITECT OF SIGNS OF DETERIORATION PRIOR TO INSTALLATION OF NEW MATERIALS.
2. REMOVE ASPHALT FROM ROOF DECK AND PREPARE CONCRETE DECK AS RECOMMENDED BY THE ROOFING MANUFACTURER.
3. FULLY CLEAR ALL LOOSE DEBRIS (INCLUDING EXISTING BALLAST AND OTHER MISC MATERIAL DISTRIBUTED BY ROOF REMOVAL OPERATIONS) PRIOR TO COMMENCEMENT OF NEW ROOF SYSTEM INSTALLATION

U OF L BELKNAP CAMPUS - ROOFING REPLACEMENT

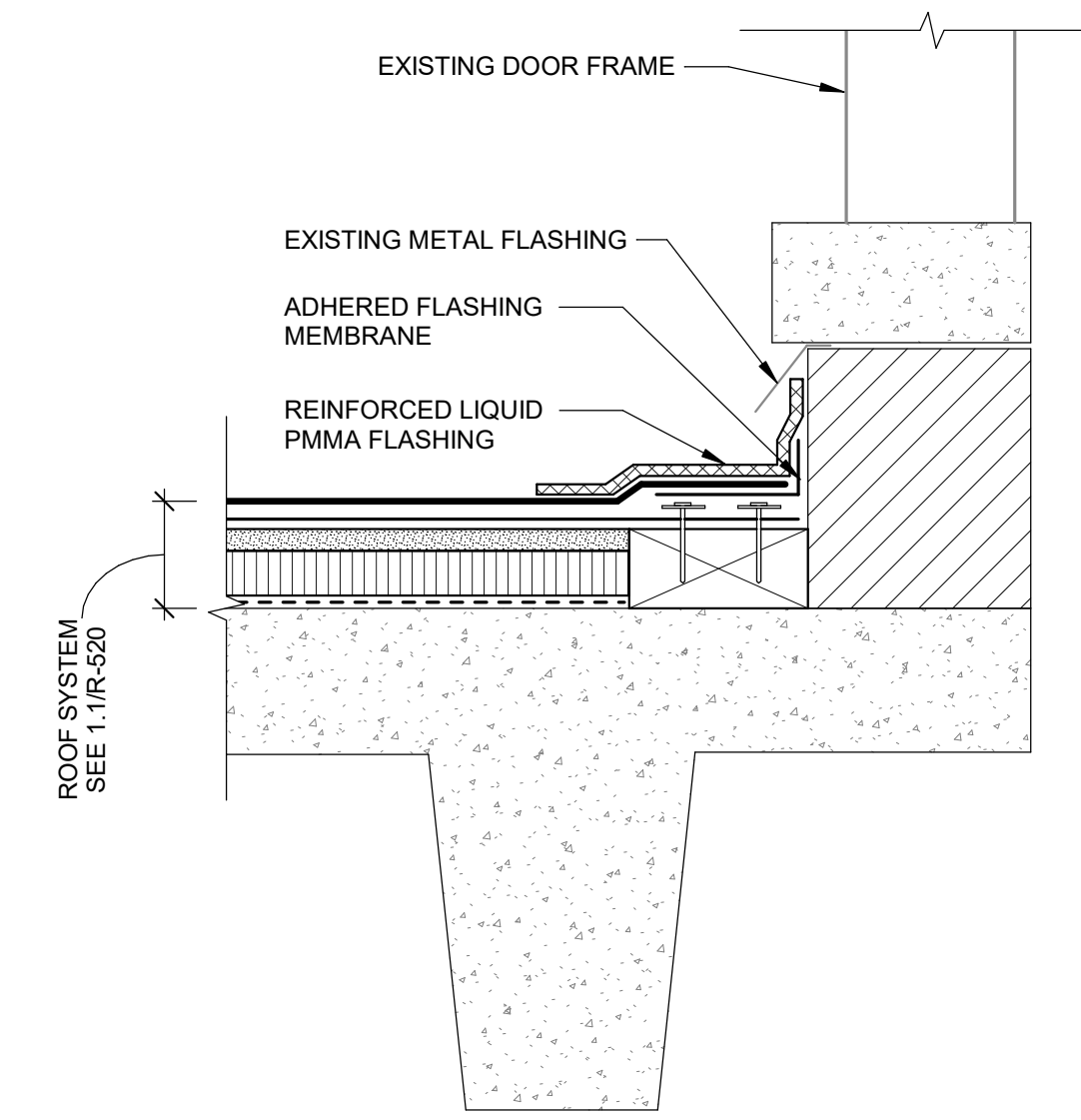
BUILDINGS 88, 02, & 33

MARK	DATE	ADDENDUM 1	DESCRIPTION
1	7/26/2024	ADDENDUM 1	ISSUED FOR PERMIT
REVISIONS			
ISSUE DATE:	10/09/2023		
PROJECT NO.:	13-004019.00		
DRAWN BY:	JSL		
CHECKED BY:	SMS		

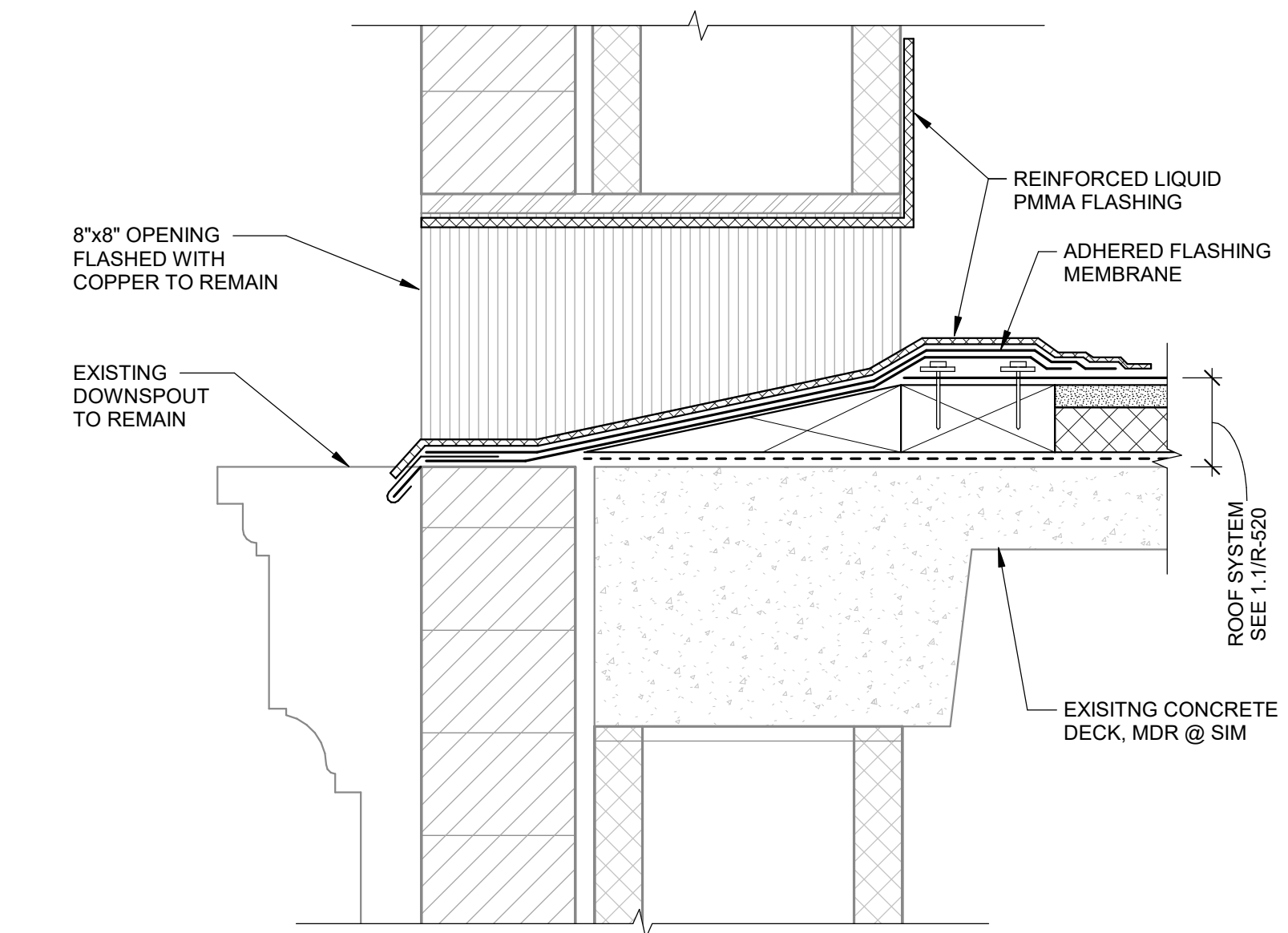
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SHEET TITLE: REPAIR DETAILS

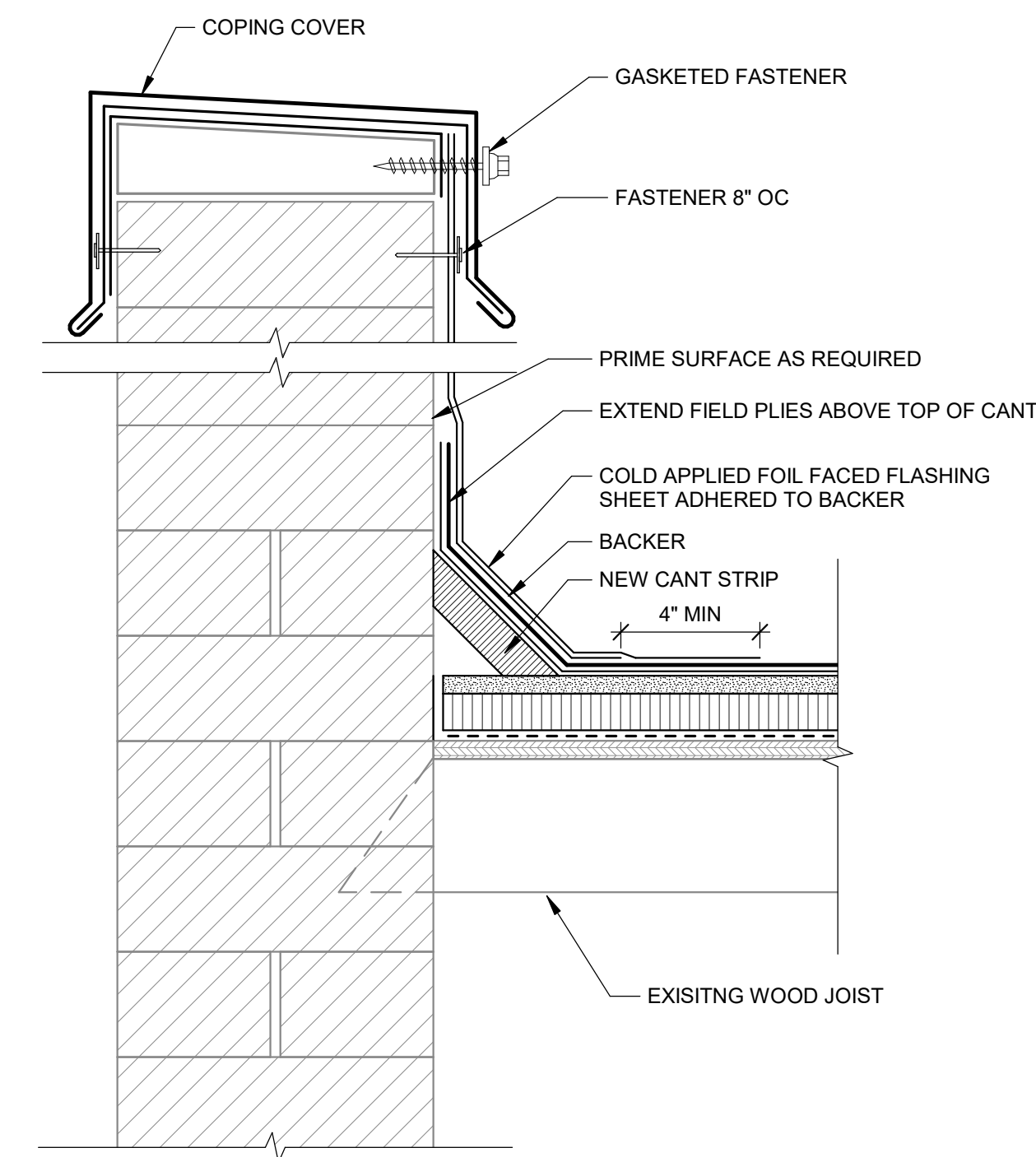
Kyle Pawlak



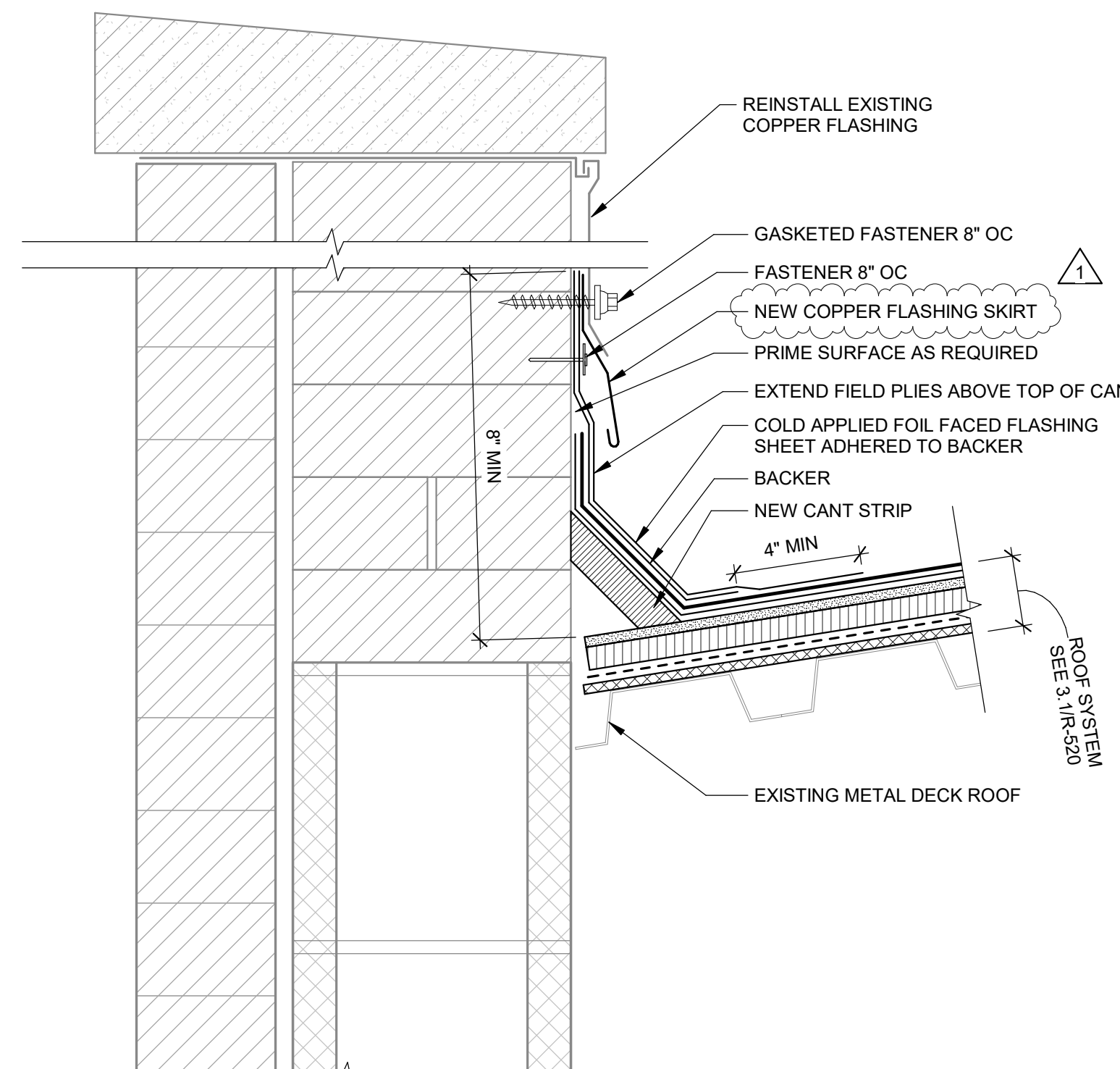
6 CONCRETE CURB AT DOOR



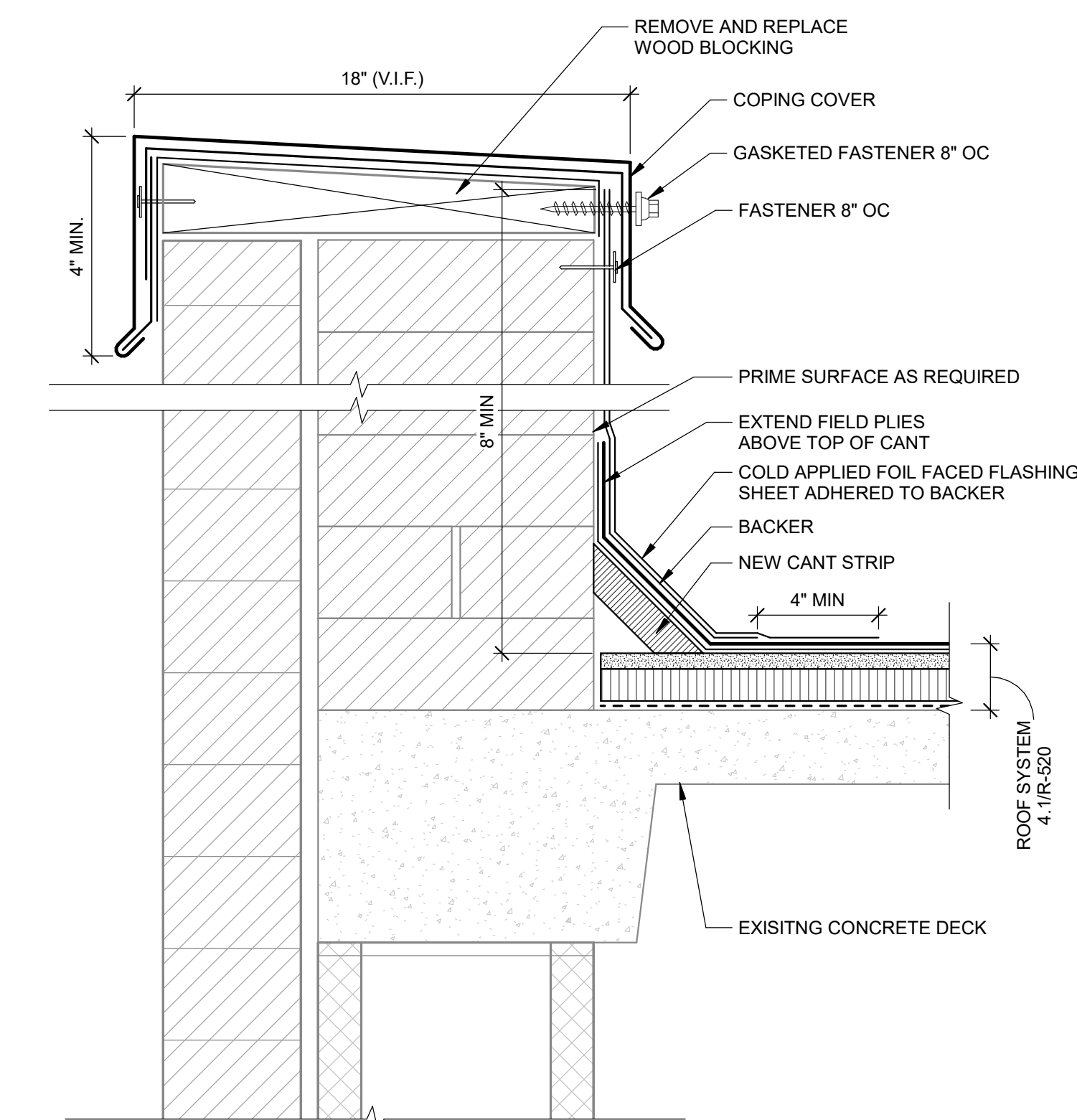
3 LEADER HEAD DETAIL



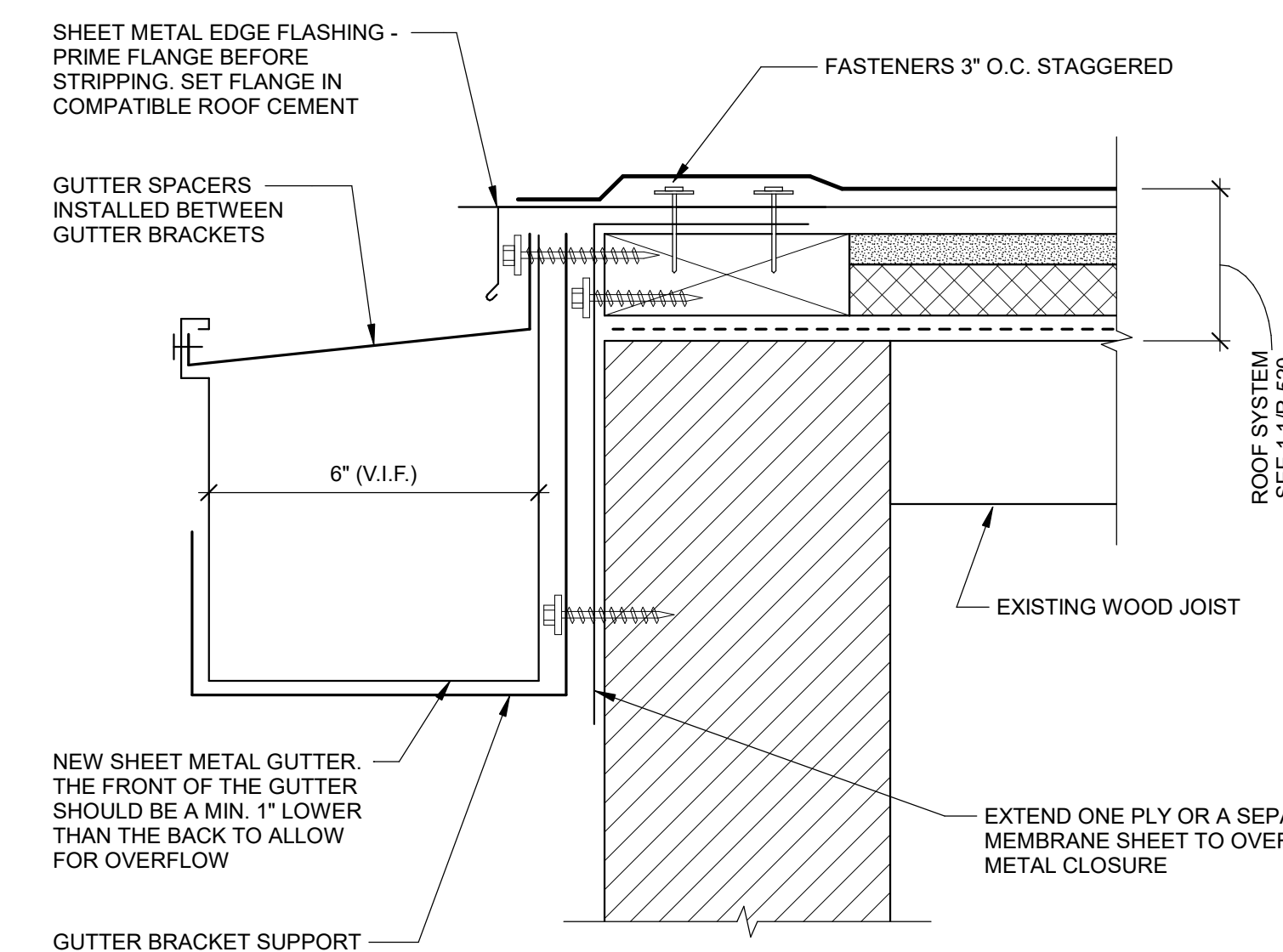
9 TYPICAL FLASHING DETAIL



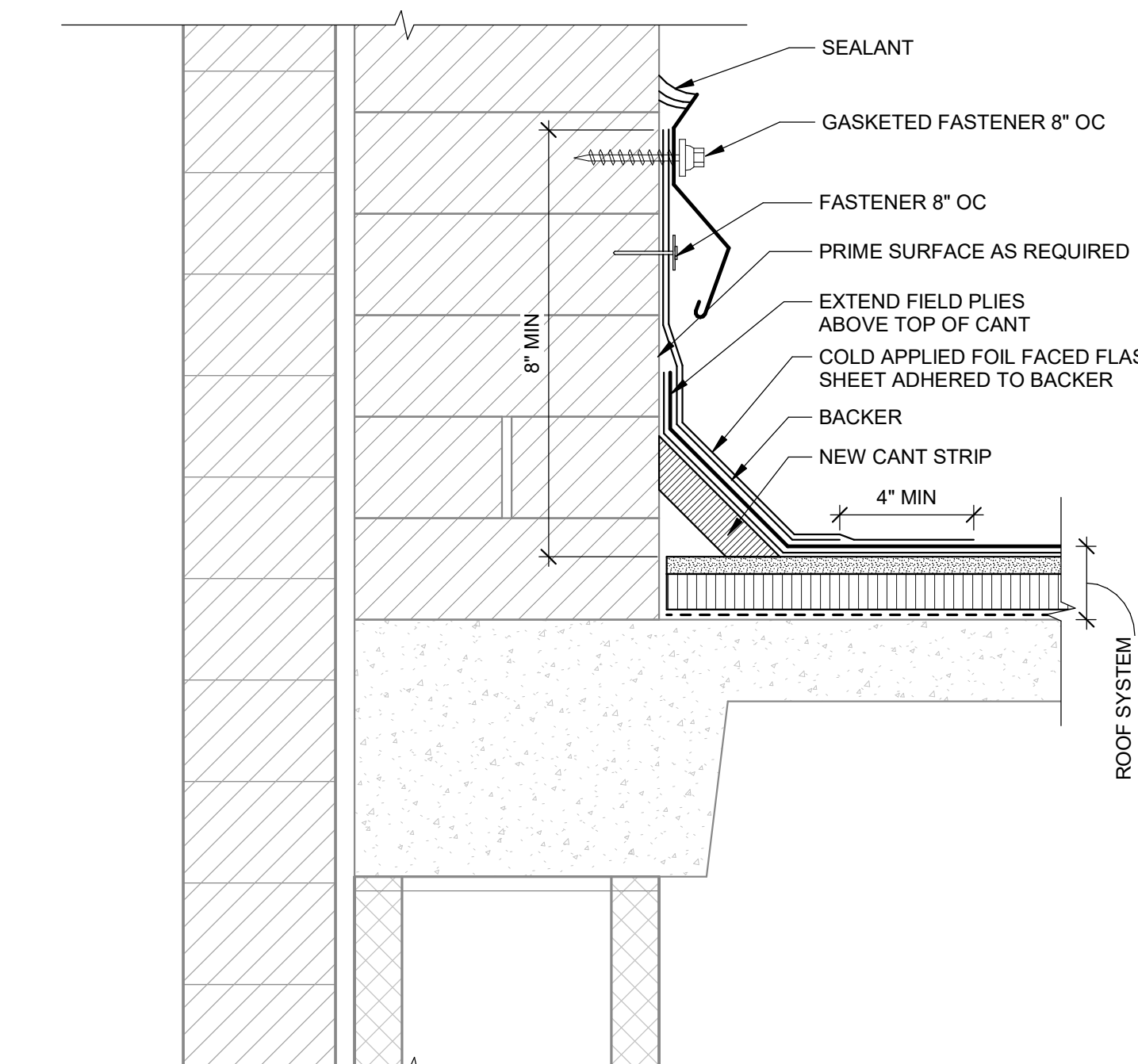
5 COPPER COUNTER FLASHING DETAIL



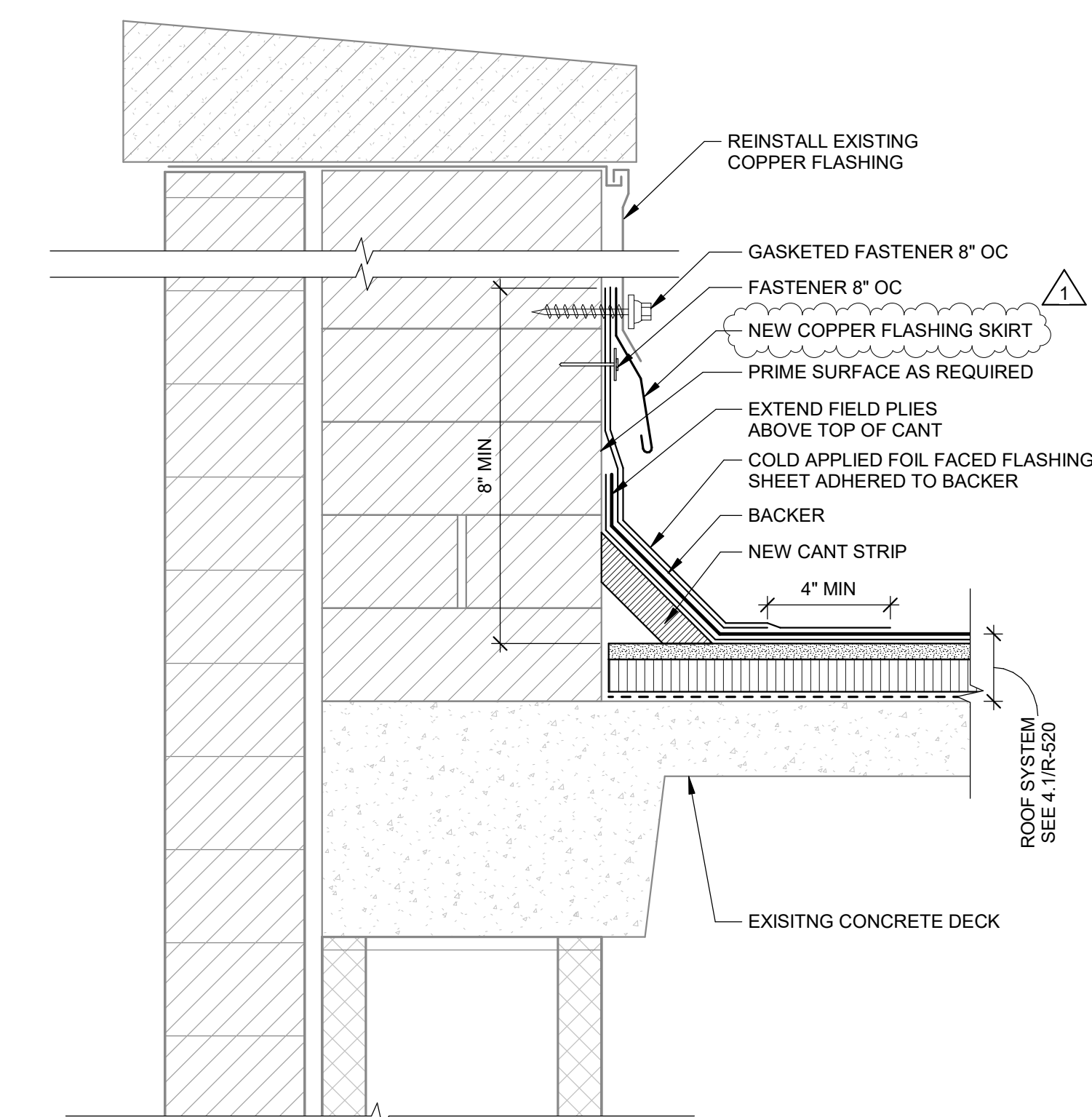
2 FLASHING TERMINATION UNDER COPING



8 GUTTER FLASHING



4 SURFACE MOUNTED COUNTER FLASHING



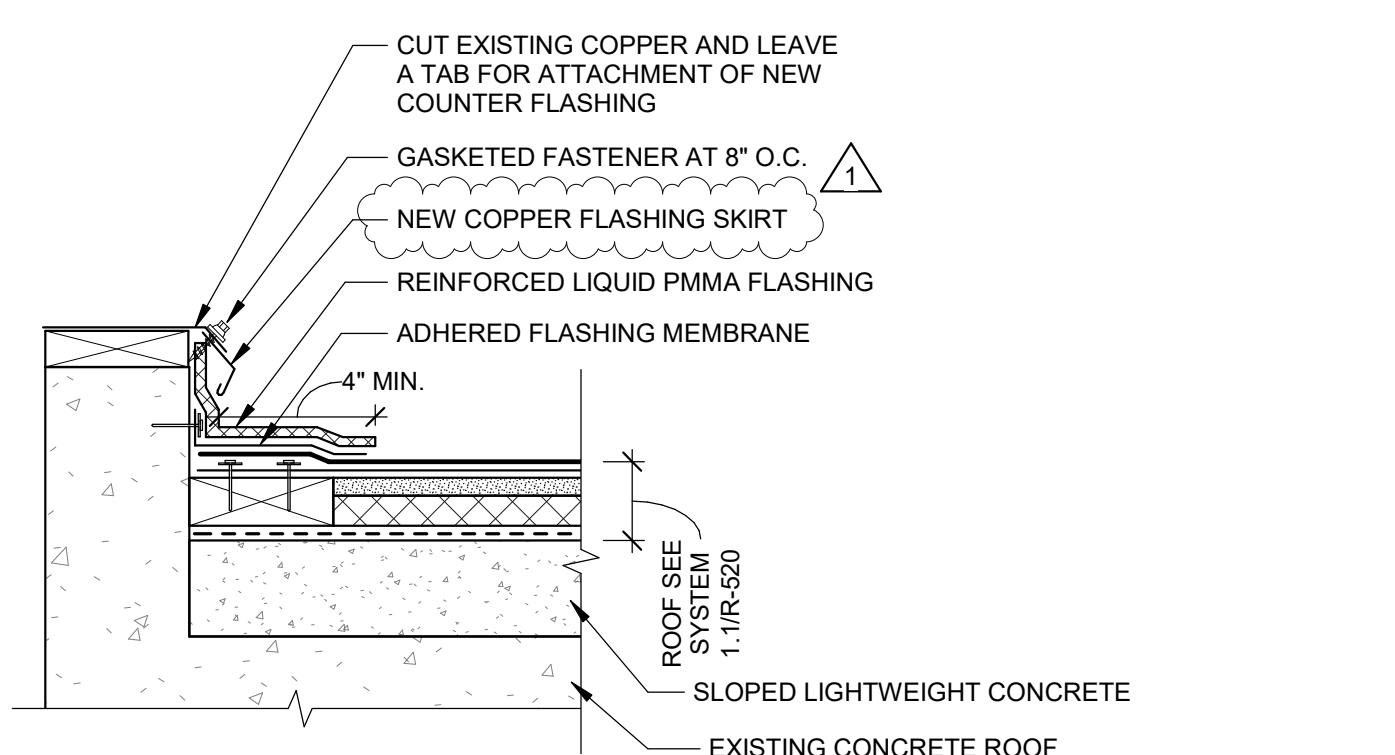
1 COPPER COUNTER FLASHING DETAIL



PROVIDE ROOF PROTECTION PADS AT EACH BEARING POINT. ADHERE PADS TO ROOF.

- NOTES:**
1. THE CONCEPTUAL REPRESENTATIVE PHOTO IS FOR INFORMATIONAL PURPOSES AND TO ILLUSTRATE THE OVERALL GENERAL DESIGN INTENT. THE PHOTO SHOWN DOES NOT REPRESENT THE ACTUAL APPEARANCE, CONFIGURATION, DESIGN, MANUFACTURER, PRODUCT, ETC.
 2. ALL LOCATIONS, HEIGHTS, LENGTHS, DIMENSIONS, ETC. TO BE VERIFIED IN THE FIELD. ALL EXTERIOR STEEL COMPONENTS SHALL BE GALVANIZED OR STAINLESS STEEL. ALL ANCHORS SHALL BE STAINLESS STEEL.
 3. WHERE INDICATED HEREIN, INSTALL NEW FIXED ROOF GUARDRAIL SYSTEM AND ASSOCIATED COMPONENTS INCLUDING, BUT NOT LIMITED TO CONTINUOUS GUARDRAIL ASSEMBLY WITH MAXIMUM SPACING OF 6 FEET BETWEEN POSTS, POST BASE PLATES, AND CONNECTIONS TO EXISTING ROOF WALL STRUCTURE.
 4. THE ROOFTOP SAFETY EQUIPMENT/SYSTEM LAYOUT PLANS SHOWN HEREIN ARE FOR GENERAL INFORMATION AND REFERENCE PURPOSES. FINAL SELECTION OF ROOFTOP SAFETY EQUIPMENT(SYSTEMS), PLAN LAYOUT(S), SPACING AND QUALITY OF SUPPORTS, INSTALLATION DETAILS, ETC. TO BE VERIFIED IN THE FIELD BY CONTRACTOR AND/OR BY ROOFTOP SAFETY EQUIPMENT/SYSTEM MANUFACTURER, WITH APPROVAL BY THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF WORK.
 5. CONTRACTOR TO PROVIDE DOCUMENTATION STATING THAT SUBMITTED EQUIPMENT/SYSTEM MATERIALS, ETC. COMPLY WITH ALL APPLICABLE OSHA STANDARDS AND REGULATIONS AND MEET OR EXCEED THE ASSOCIATED REQUIRED LOAD CAPACITIES.
 6. LAYOUT OF NEW ROOFTOP SAFETY EQUIPMENT(SYSTEMS) TO AVOID PLACEMENT OF POSTS, ANCHORS, SUPPORTS, ETC. AT EXISTING ROOF PENETRATIONS AND ROOFTOP EQUIPMENT.

10 CONCEPTUAL REPRESENTATIVE PHOTOGRAPH OF ROOF TOP SAFETY GUARD RAIL SYSTEM



7 WINDOW SILL DETAIL

U OF L
BELKNAP CAMPUS -
ROOFING
REPLACEMENT

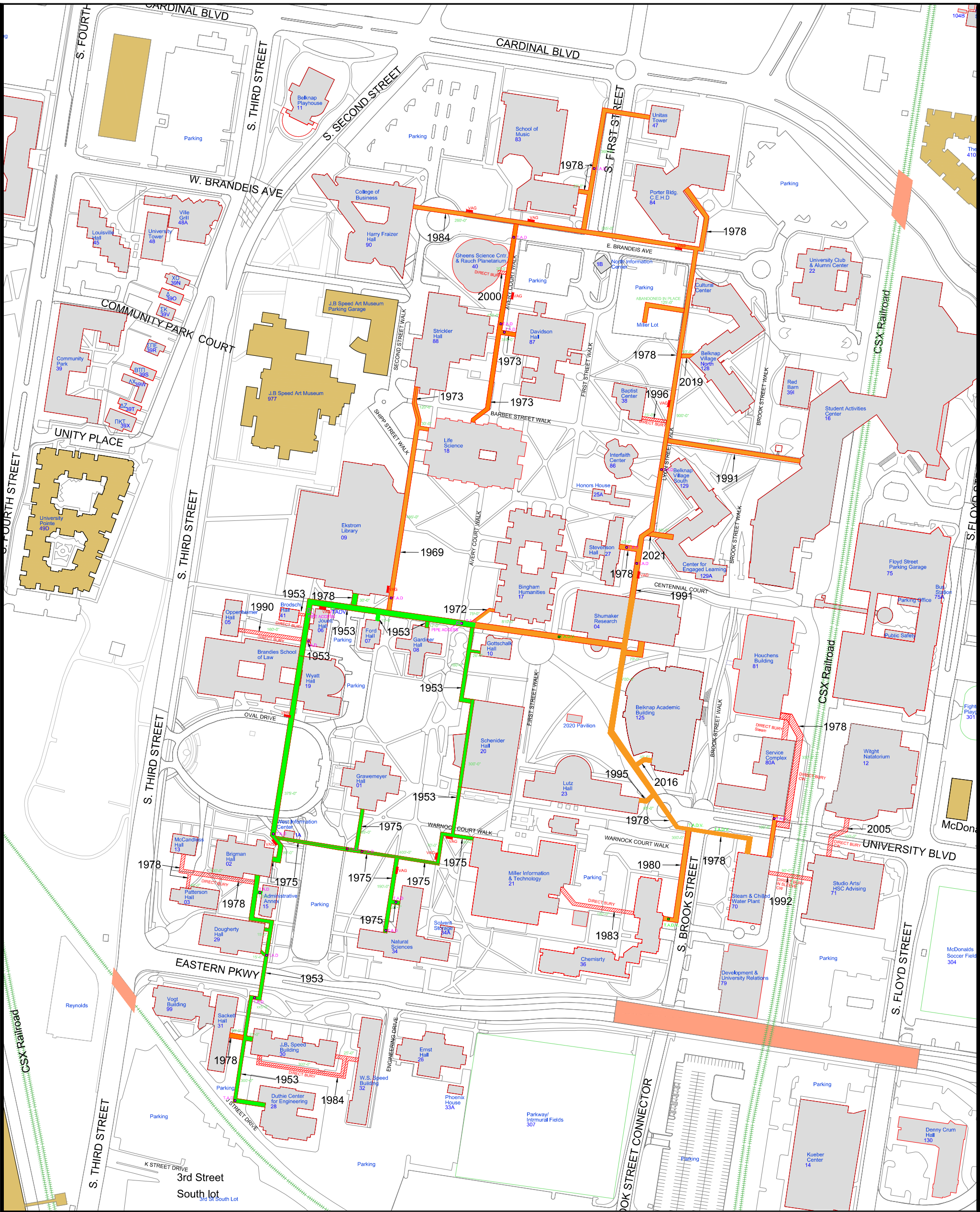
BUILDINGS 88, 02, & 33

MARK	DATE	DESCRIPTION
1	7/26/2024	Addendum 1

ISSUE: ISSUED FOR PERMIT
ISSUE DATE: 10/09/2023
PROJECT NO: 13-004019.00
DRAWN BY: JSL
CHECKED BY: SMS

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SHEET TITLE:
REPAIR DETAILS



SCALE: 1" = 100'-0"

LEGEND

- TAD - TUNNEL ACCESS DOOR
- TADV - TUNNEL ACCESS DOOR WITH VENT
- VAG - VENT ABOVE GROUND
- ▨ DIRECT BURIED UNDERGROUND LINES
- ▬ UNDERGROUND TUNNEL IN 1953
- ▬ UNDERGROUND TUNNEL AFTER 1953

NOTE:

1. TUNNEL DIMENSION 8'-0" W X 7'-0" H, WITH 8" THICK CONCRETE WALL, 12" THICK SLAB BELOW GRADE, 2'-6" CONCRETE CURB.
2. ORIGINAL TUNNEL WAS INSTALLED IN 1953.

UNIVERSITY OF LOUISVILLE
BELKNAP CAMPUS - TUNNEL PLAN TO S&CW PLANT

- UofL BLDG.
 - PARKING
 - PRIVATIZED BLDG.
 - UNDERPASS
-

UofL, Physical Plant – Tunnel Top Load Rating

STRUCTURAL DESIGN LOAD RATING OF UOFL BELKNAP CAMPUS 8-INCH-THICK REINFORCED TUNNEL TOPS WITH REINFORCEMENT CALCULATES OUT TO A DESIGN LOAD OF 7.5 TONS PER AXLE LOAD. THIS SHOULD ACCOMMODATE MOST HIGHWAY RATED VEHICLES.

RECOMMENDATIONS INCLUDE:

1. VERIFY THE AXLE RATING OF QUESTIONABLE VEHICLE.
2. PROVIDE 1-INCH THICK, 10FT X 4FT PLATE OVER THE TUNNEL IF VEHICLE RATING EXCEEDS 7.5 AXLE.
3. IF RATING IS ACCEPTABLE, DRIVE SLOWLY ACROSS TUNNEL AS NECESSARY.
4. DO NOT PARK VEHICLE DIRECTLY ON THE TUNNEL TOP.
5. OUTRIGGERS & STABILIZERS OF CRANES SHOULD NOT BE PLACED ON TUNNEL TOP.
6. REQUEST A TUNNEL PLAN FOR AREA OF WORK / CONSTRUCTION.

FOR REFERENCE ONLY:

- A 10 YARD CEMENT TRUCK-FULL OF CONCRETE WEIGHS 26,000 POUNDS.
- $7.5 \text{ TONS} \times 2,000 \text{ LBS/TON} = 15,000 \text{ LBS PER AXLE}$.
- $26,000 \text{ LBS DIVIDED BY } 3 \text{ AXLES CONCRETE TRUCK} = 8,665 \text{ LBS. PER AXLE}$.
- TUNNEL WIDTH VARIES BETWEEN 7 FT TO 8 FT WIDE. TUNNEL TOPS ARE MOSTLY 8 INCHES THICK BUT SOME TUNNELS ARE 12-INCHES.
- TUNNELS IN GRADE AREA, THE TOP OF THE TUNNEL MAY BE LESS THAN 4FT.

IF IN DOUBT, PLATE OVER THE TUNNEL.