

514 MAIN STREET ROOF REPLACEMENT PROJECT UNIVERSITY OF SOUTH CAROLINA PROJECT NUMBER: H27-6100-A



UNIVERSITY OF
SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA
COLUMBIA, SOUTH CAROLINA

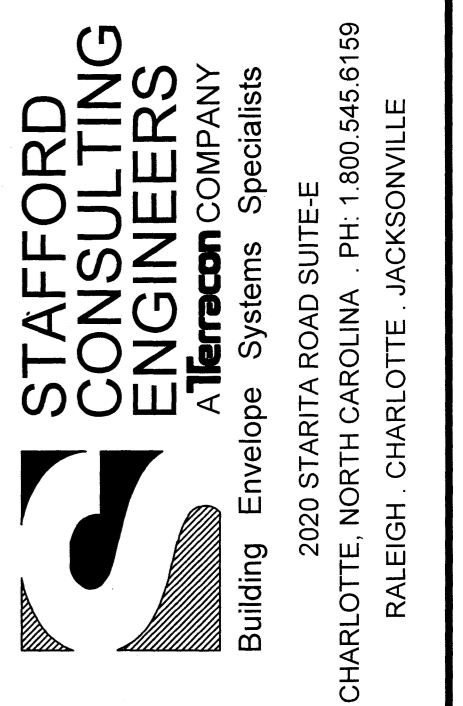
INDEX OF DRAWINGS

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R-205	ROOF DETAILS



Building Enclosure Systems Specialists

RALEIGH . CHARLOTTE . JACKSONVILLE



PROJECT NAME AND ADDRESS:



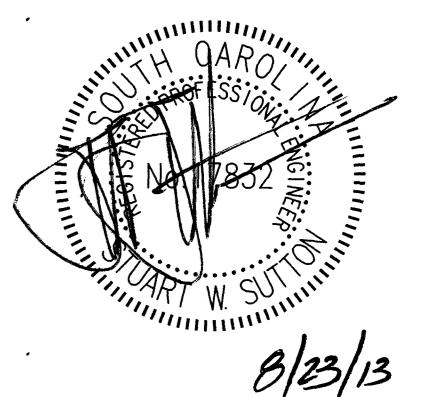
514 MAIN STREET
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PROJECT

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PROJECT TEAM:

DESIGNED BY:

AWM

DRAWN BY:

EGM II

APPROVED BY:

AWM & CMQ

PROJECT NUMBER:

FH136820

SHEET TITLE:

COVER-SHEET

SHEET NUMBER:

T-100

PROJECT NAME AND ADDRESS:



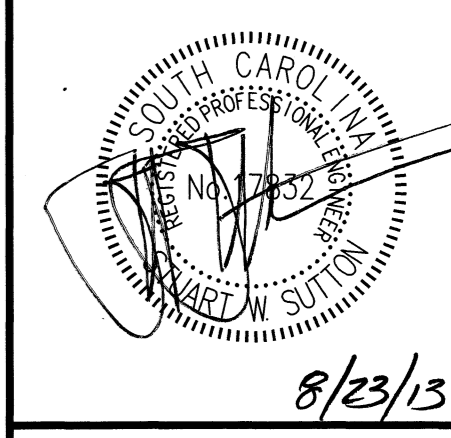
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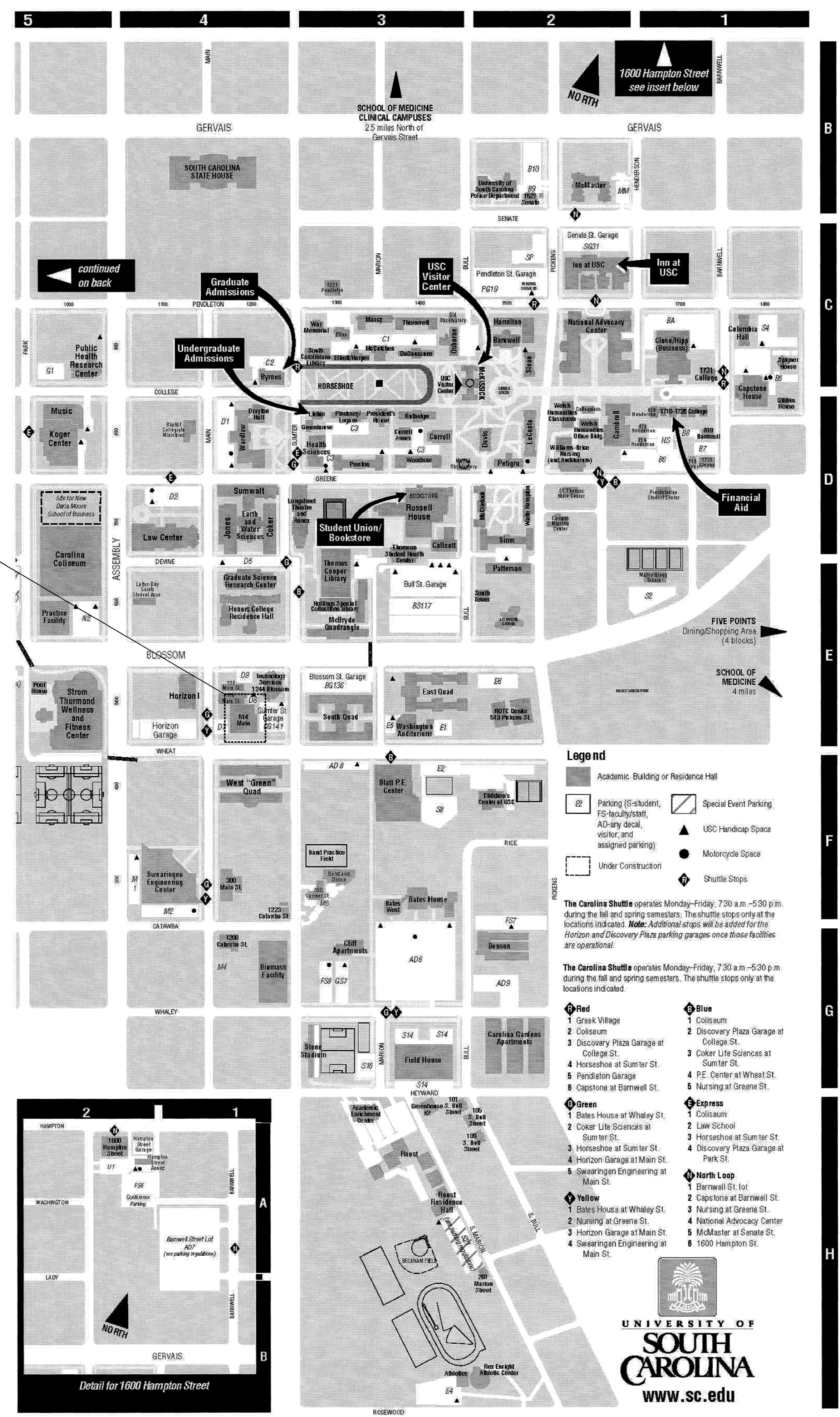
APPROVED BY:
AWM & CMQ

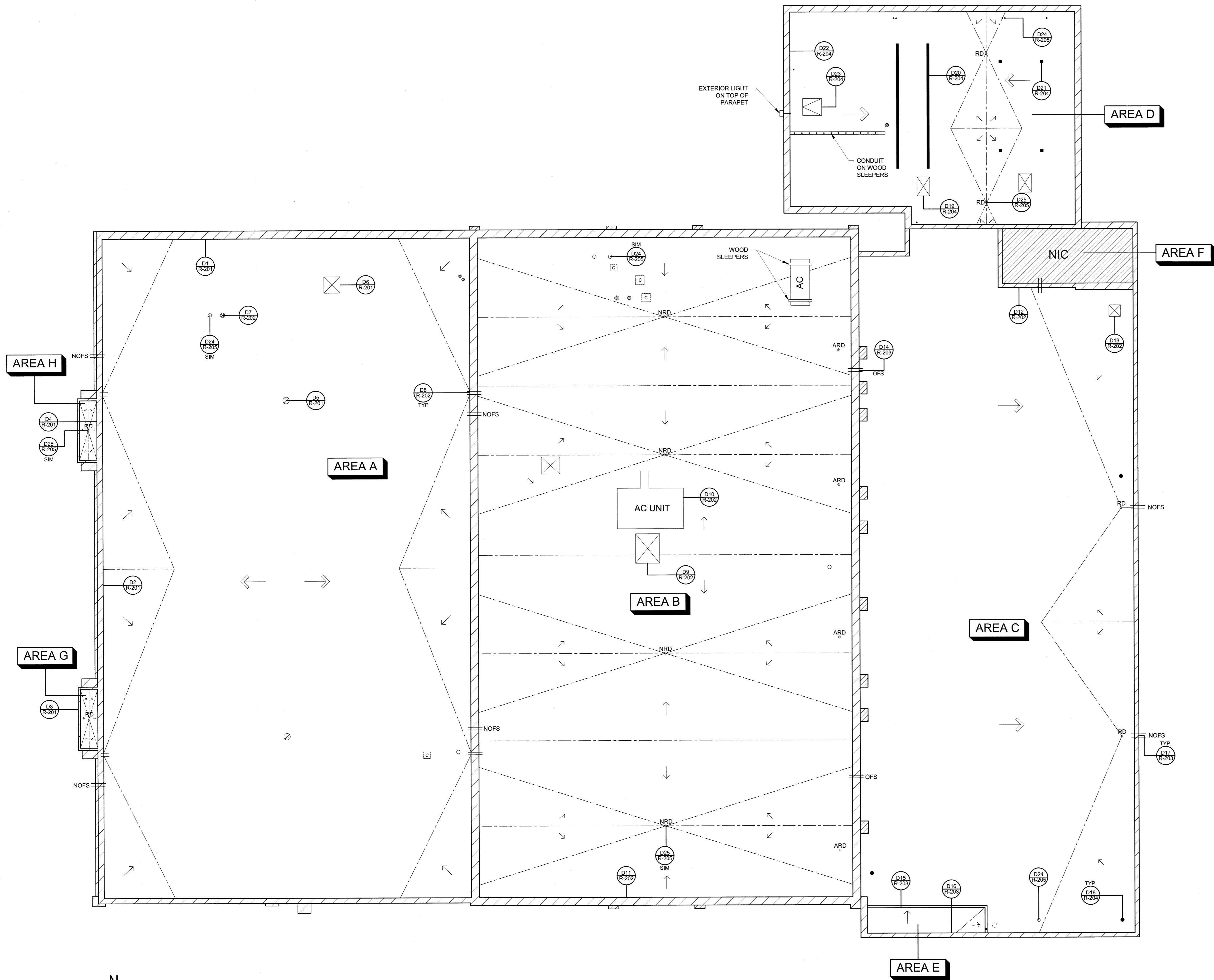
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SHEET TITLE:
CAMPUS-MAP

SHEET NUMBER:
M-100

PROJECT SITE LOCATION
 HERE





LEGEND

- NRD⊙ NEW ROOF DRAIN
- RD⊙ ROOF DRAIN
- SCUPPER
- PARAPET
- ⊗ MECHANICAL UNIT
- ⊠ COVERED CURB
- FLASHED EQUIPMENT CURB
- SLEEPER
- PITCH PAN
- VENT PIPE/PENETRATION
- HOT STACK
- TAPERED INSULATION
- TAPERED INSULATION SLOPE
- DECK SLOPE
- DETAIL NO.
- ⊠ NOT IN CONTRACT
- ⊠ ABANDONED (TO BE REMOVED)
- ABANDONED SANITARY VENT (TO BE REMOVED)
- ARD⊙ ABANDONED ROOF DRAIN
- OFS = OVERFLOW SCUPPER
- NOFS = NEW OVERFLOW SCUPPER
- GUTTER AND DOWNSPOUT

CODE SUMMARY

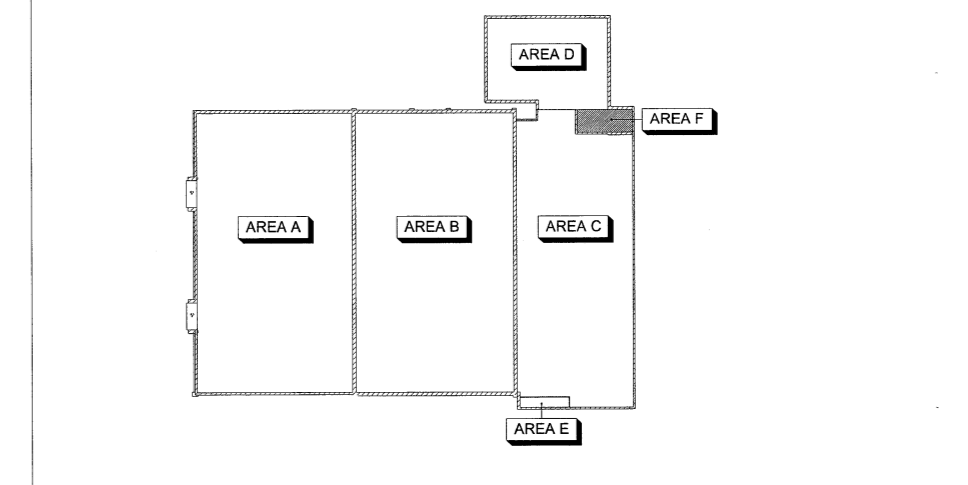
INTERNATIONAL BUILDING CODE (2006 EDITION) AND ASCE 7-05

BASIC WIND SPEED = 95 MPH
 IMPORTANCE FACTOR = 1.15
 EXPOSURE CATEGORY = B
 INTERNAL PRESSURE COEF. = +/- 0.18

THE NEW ROOF SYSTEM SHALL BE DESIGNED AND CONSTRUCTED TO MEET THE FOLLOWING WIND UPLIFT PRESSURES:

1. INTERIOR ZONE = -25 PSF
2. EDGE ZONE = -44 PSF
3. CORNER ZONE = -53 PSF

KEYPLAN



STAFFORD CONSULTING ENGINEERS
 A **Heicon** COMPANY
 Building Envelope Systems Specialists
 2020 STARTA ROAD SUITE E
 CHARLOTTE, NORTH CAROLINA PH: 1.800.545.6159
 RALEIGH, CHARLOTTE, JACKSONVILLE

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514 MAIN STREET ROOF REPLACEMENT PROJECT

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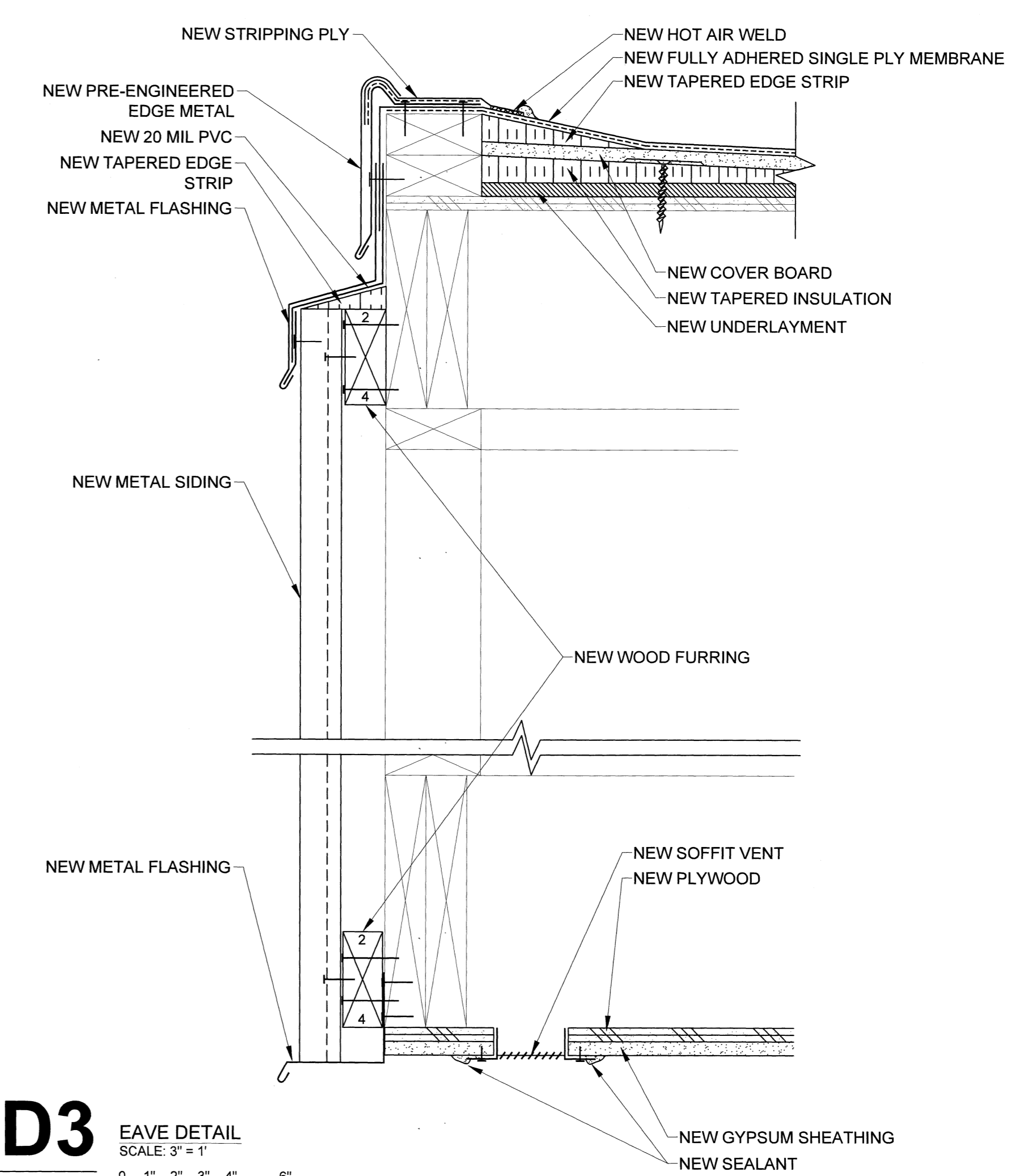
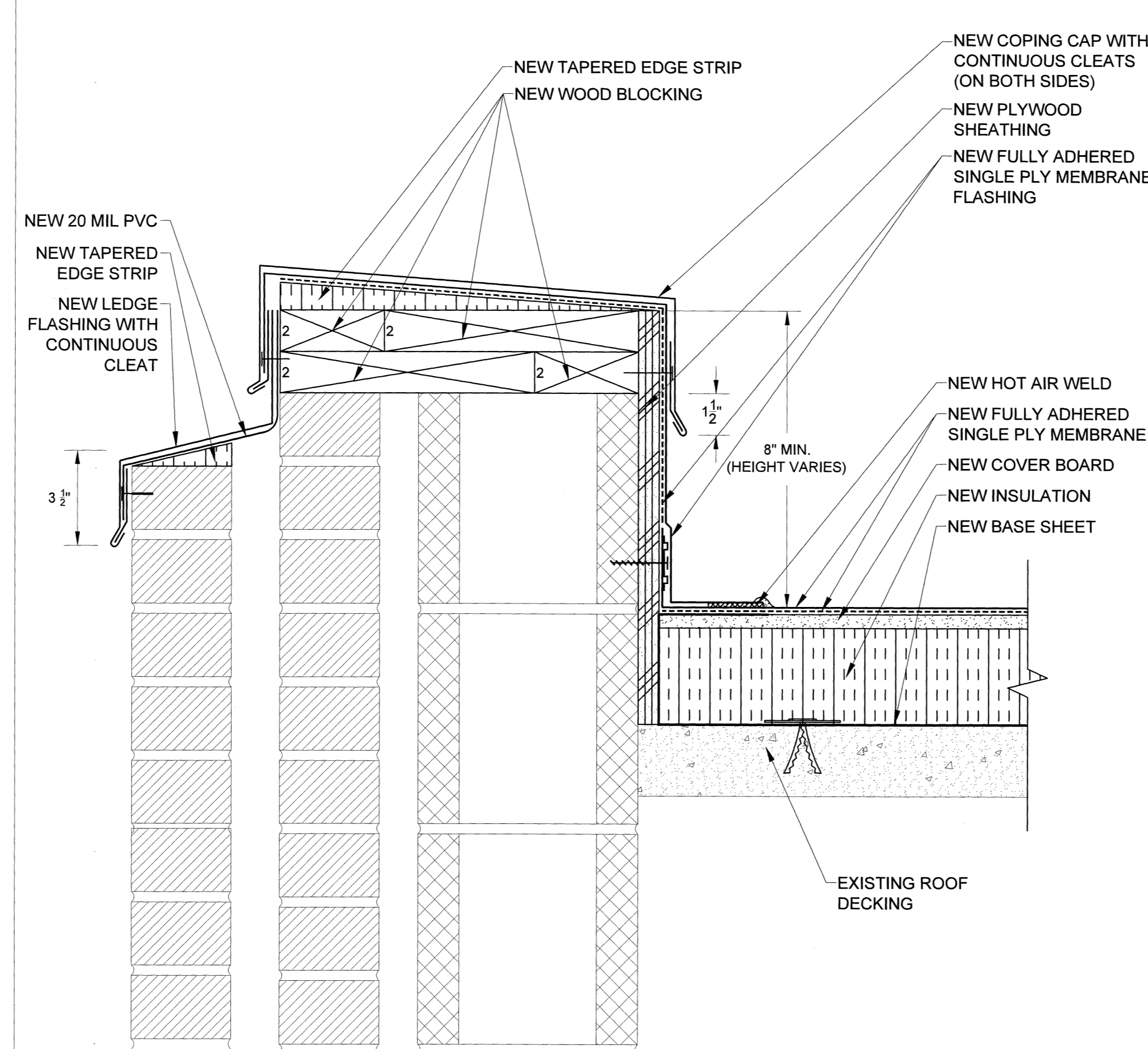
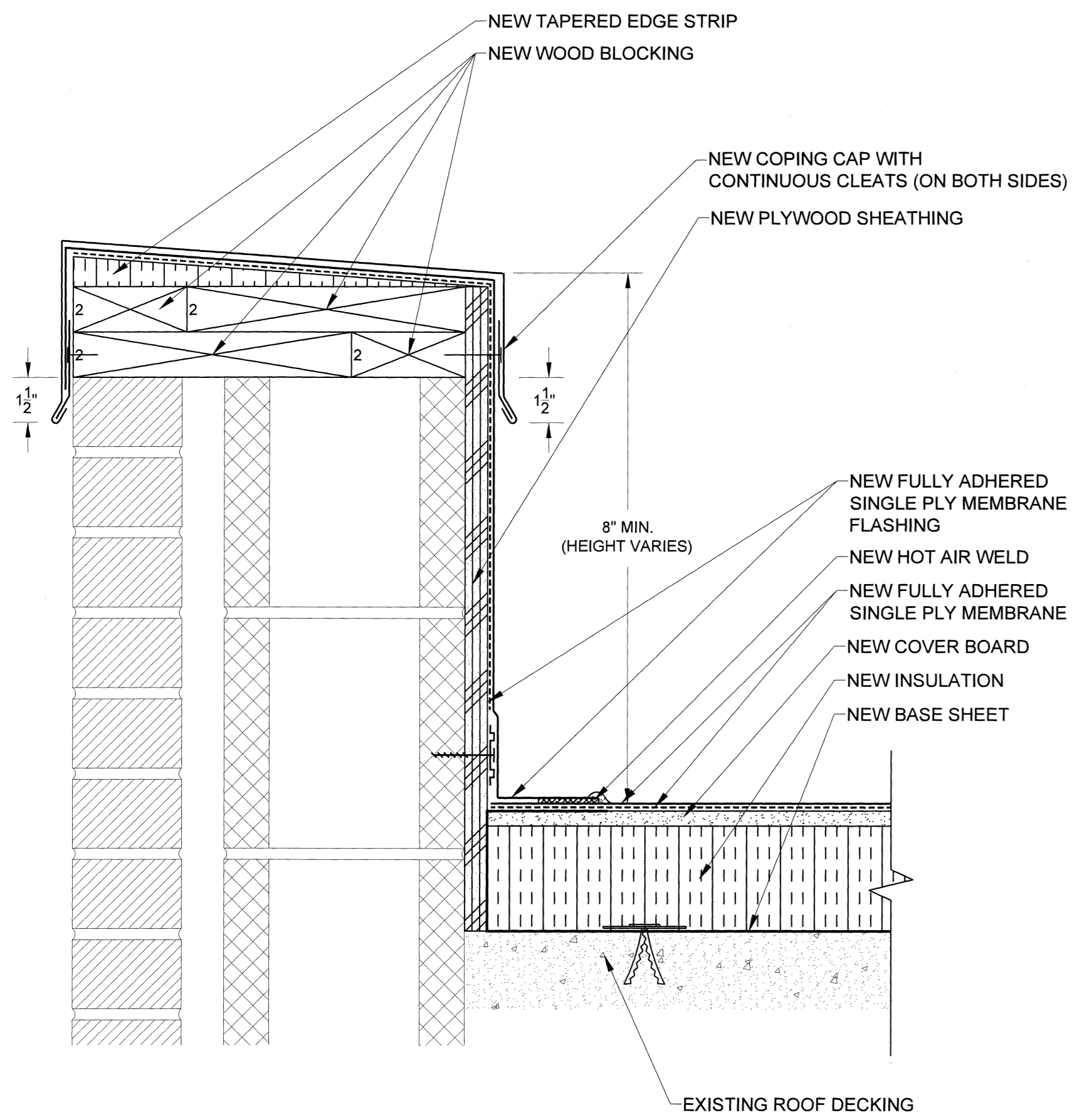
PROJECT TEAM:
 DESIGNED BY: AWM
 DRAWN BY: EGM II
 APPROVED BY: AWM & CMQ

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SHEET TITLE: ROOF PLAN

SHEET NUMBER: R-100

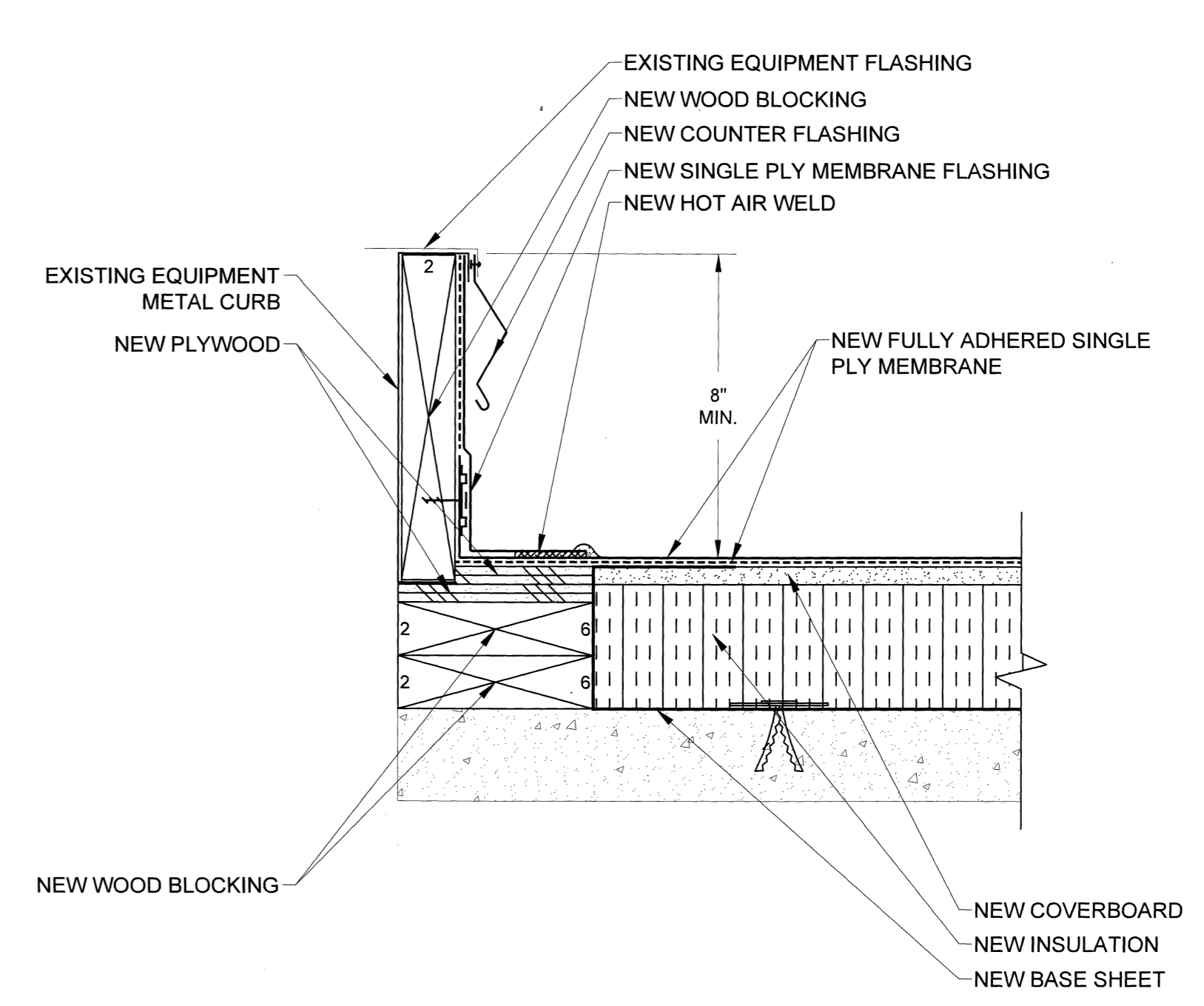
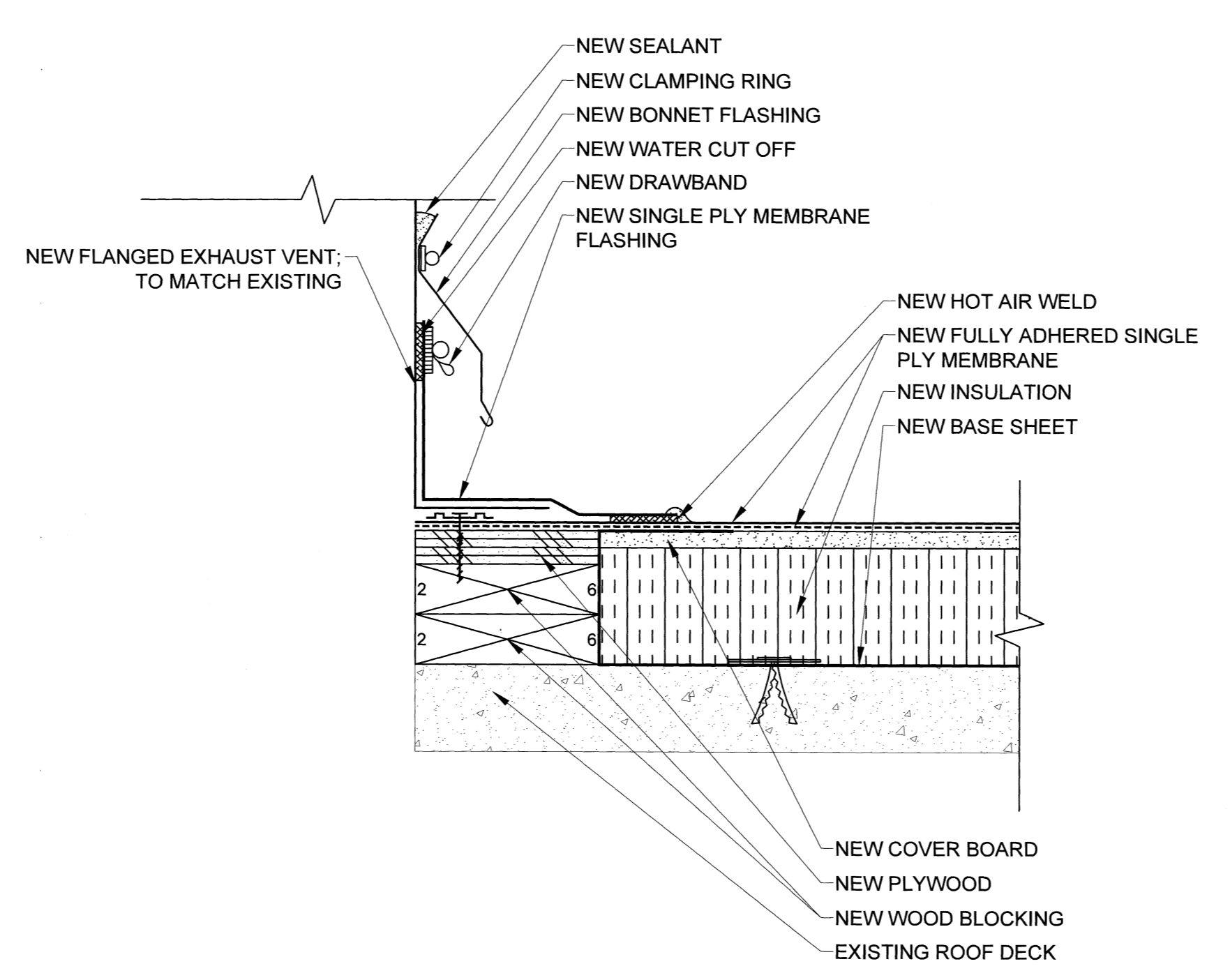
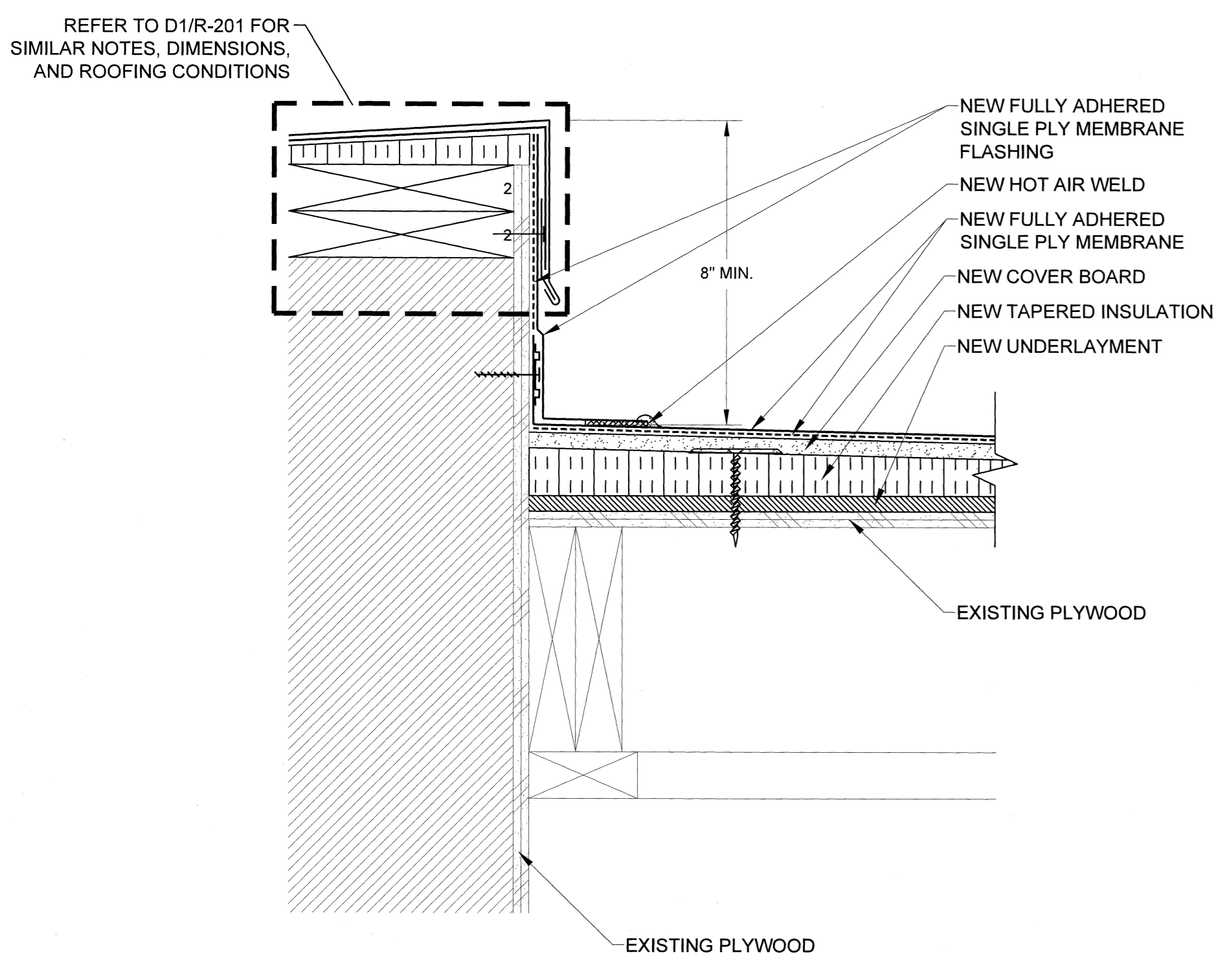
RP1 514 MAIN STREET ROOF PLAN
 SCALE: 1/8"=1'-0"



D1 PARAPET DETAIL AT LOW WALL DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

D2 PARAPET WALL WITH LEDGE DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

D3 EAVE DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"



D4 WALL DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

D5 FLANGED EXHAUST FAN FLASHING DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

D6 EQUIPMENT CURB DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

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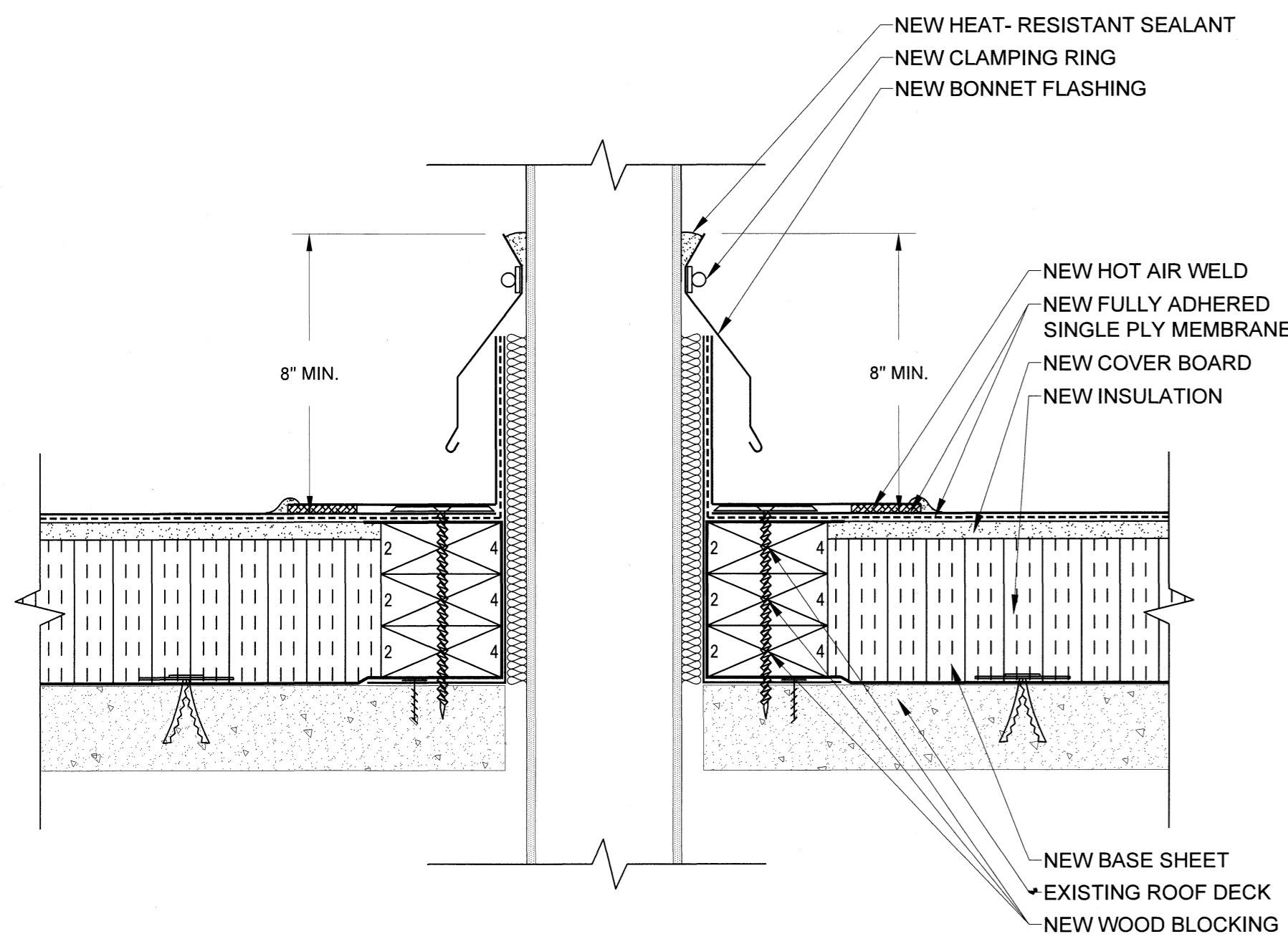
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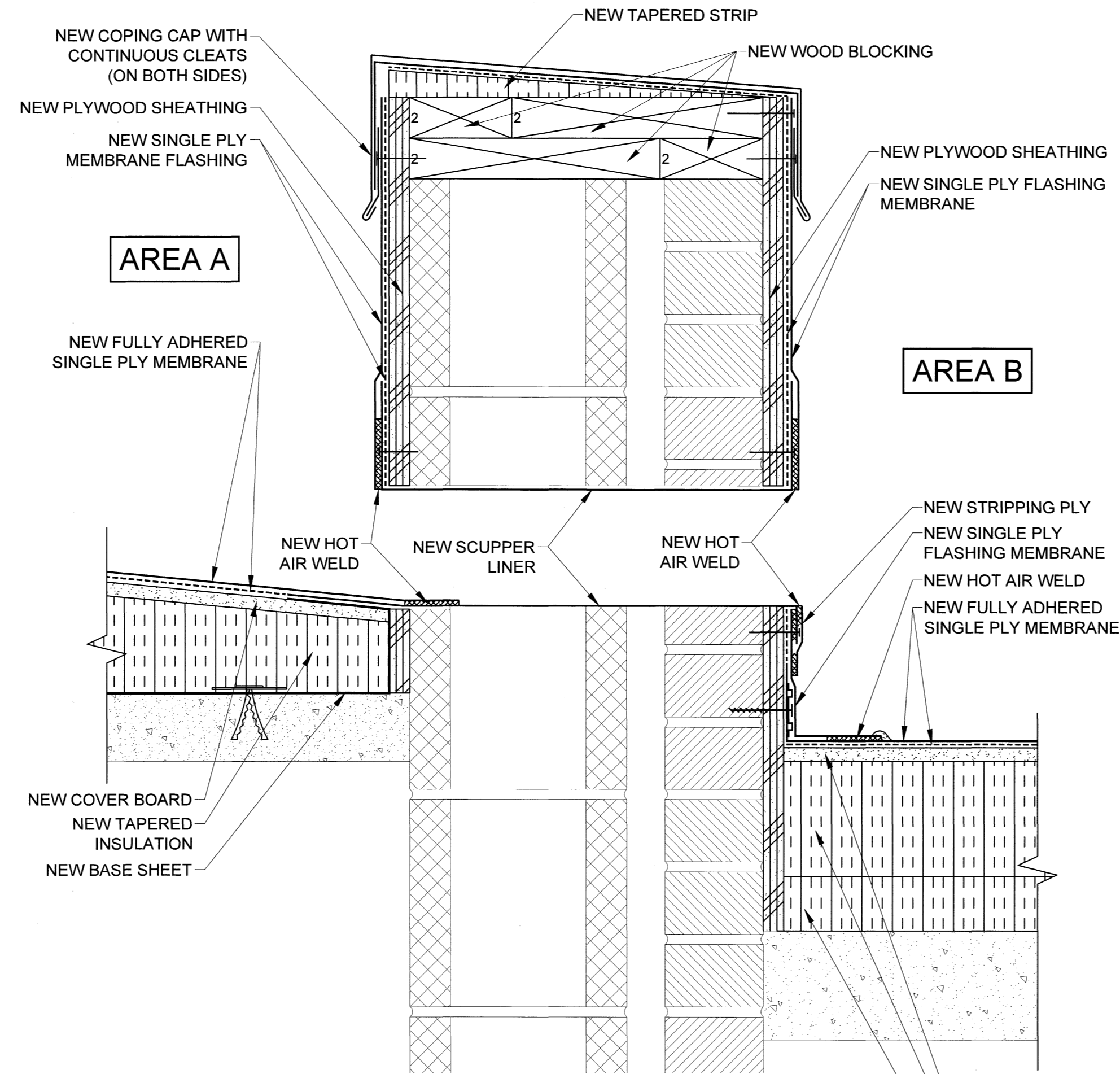
ROOF DETAILS

SHEET NUMBER:

R-201

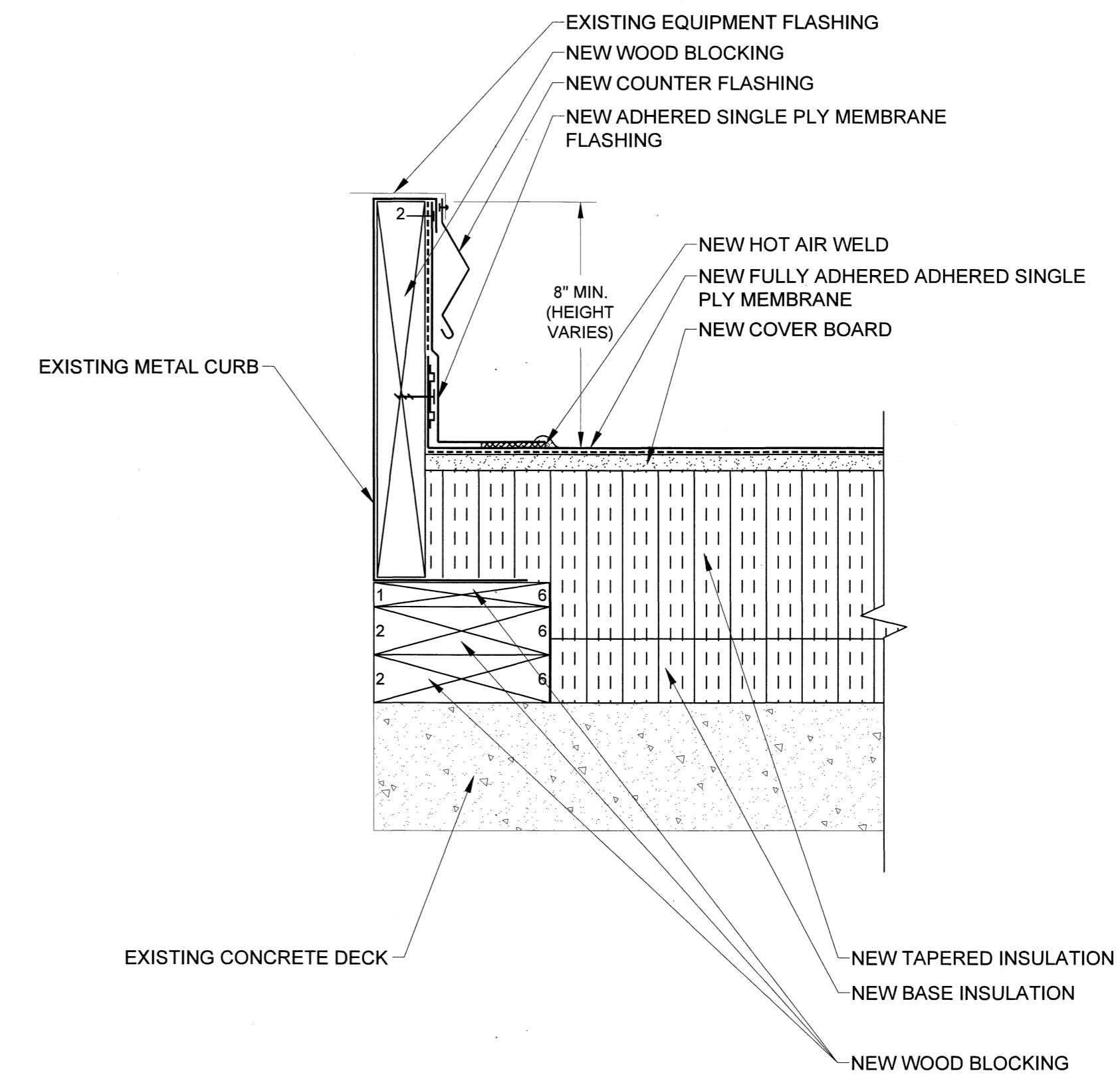


D7 HOT STACK DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

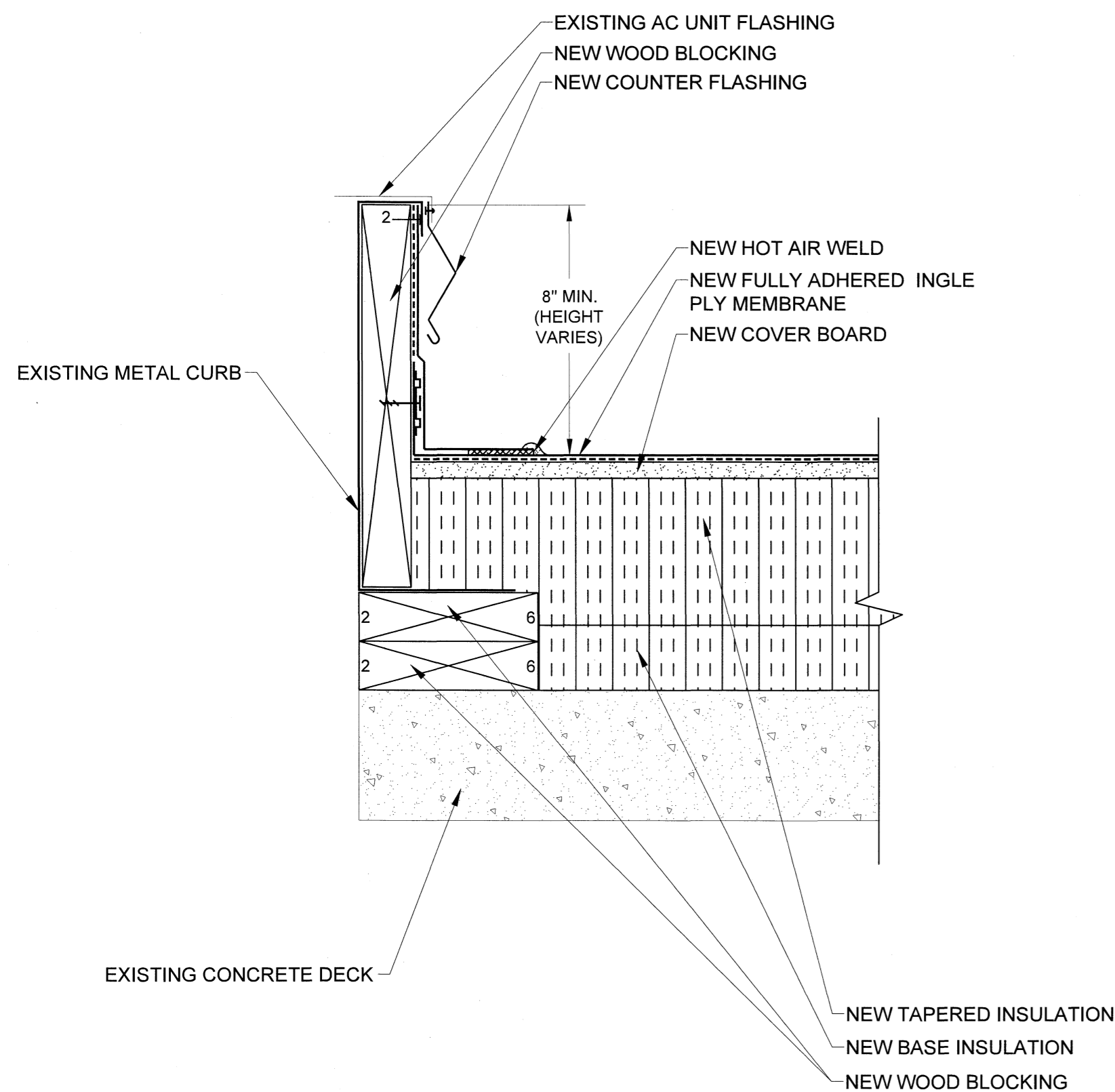


D8 AREA A: DRAIN SCUPPER
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

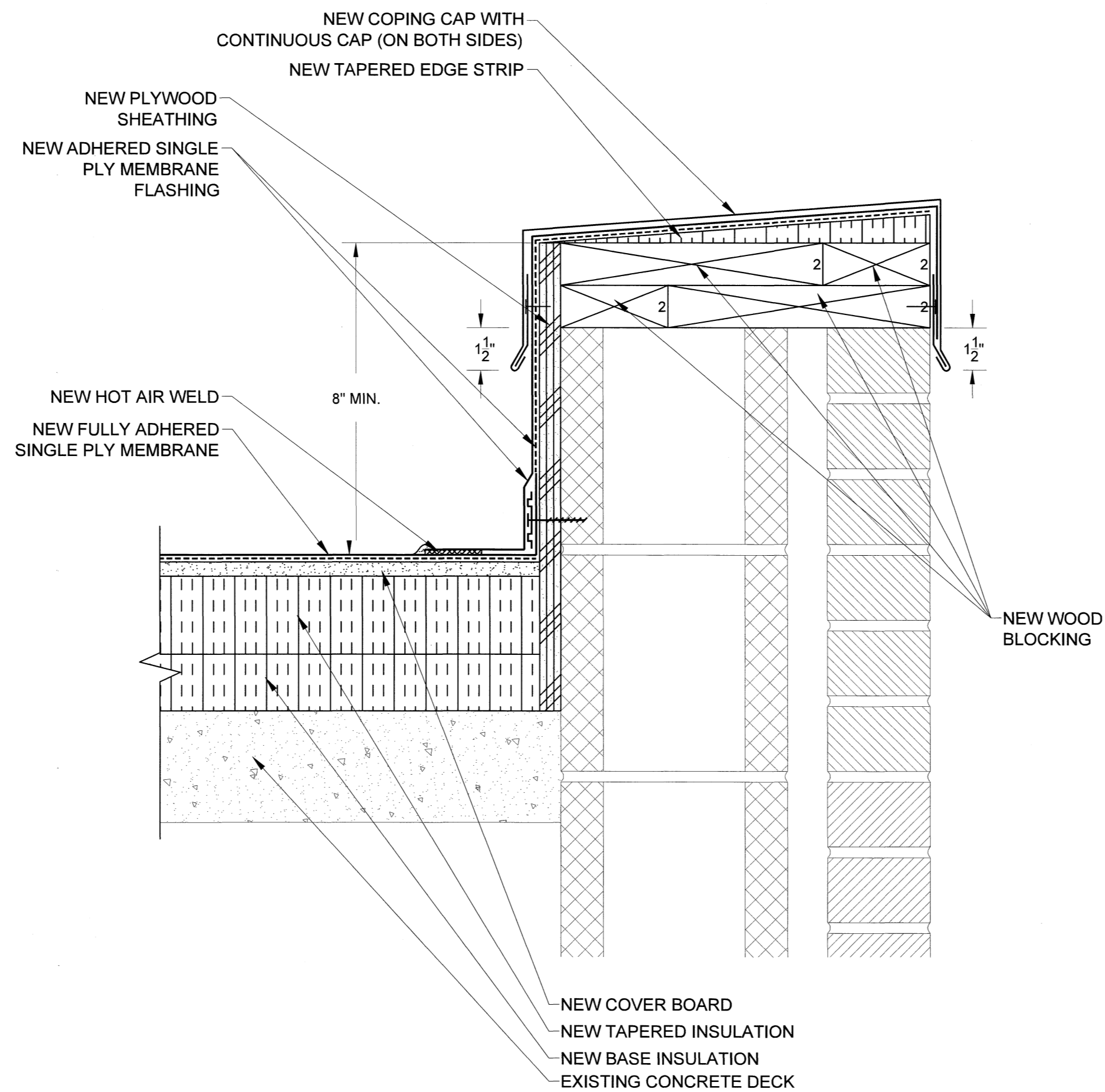
NOTE:
FLASHED SCUPPER SIZE
OPENING IS 4"x4"



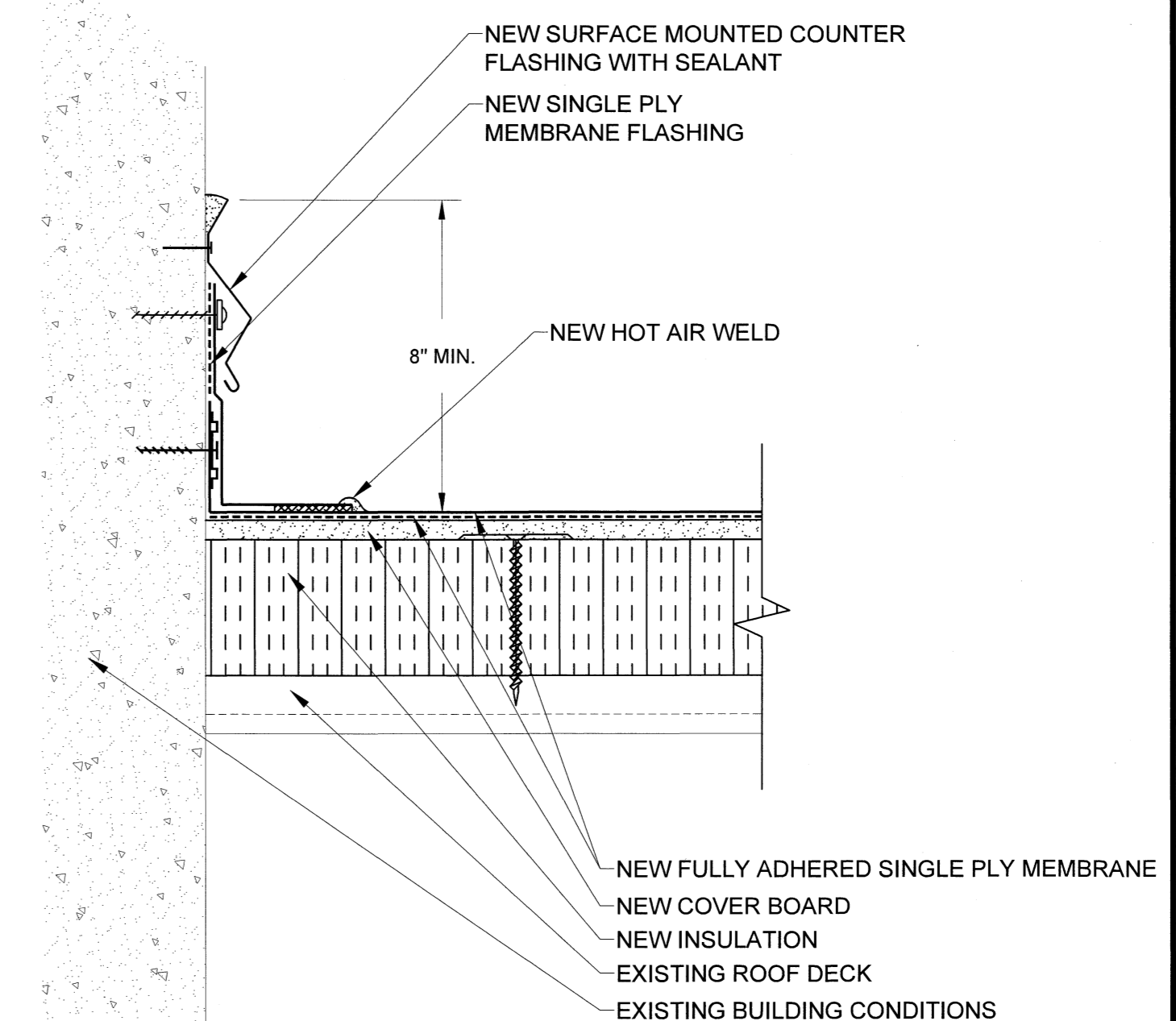
D9 EQUIPMENT CURB
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"



D10 AIR CONDITION (AC) UNIT CURB DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"



D11 AREA B: PARAPET WALL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"



D12 WALL FLASHING DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

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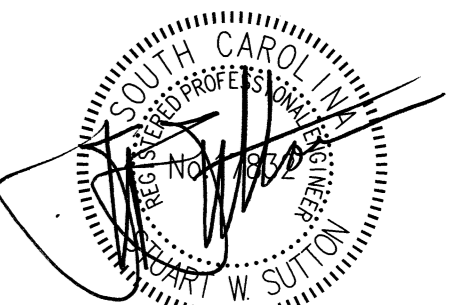
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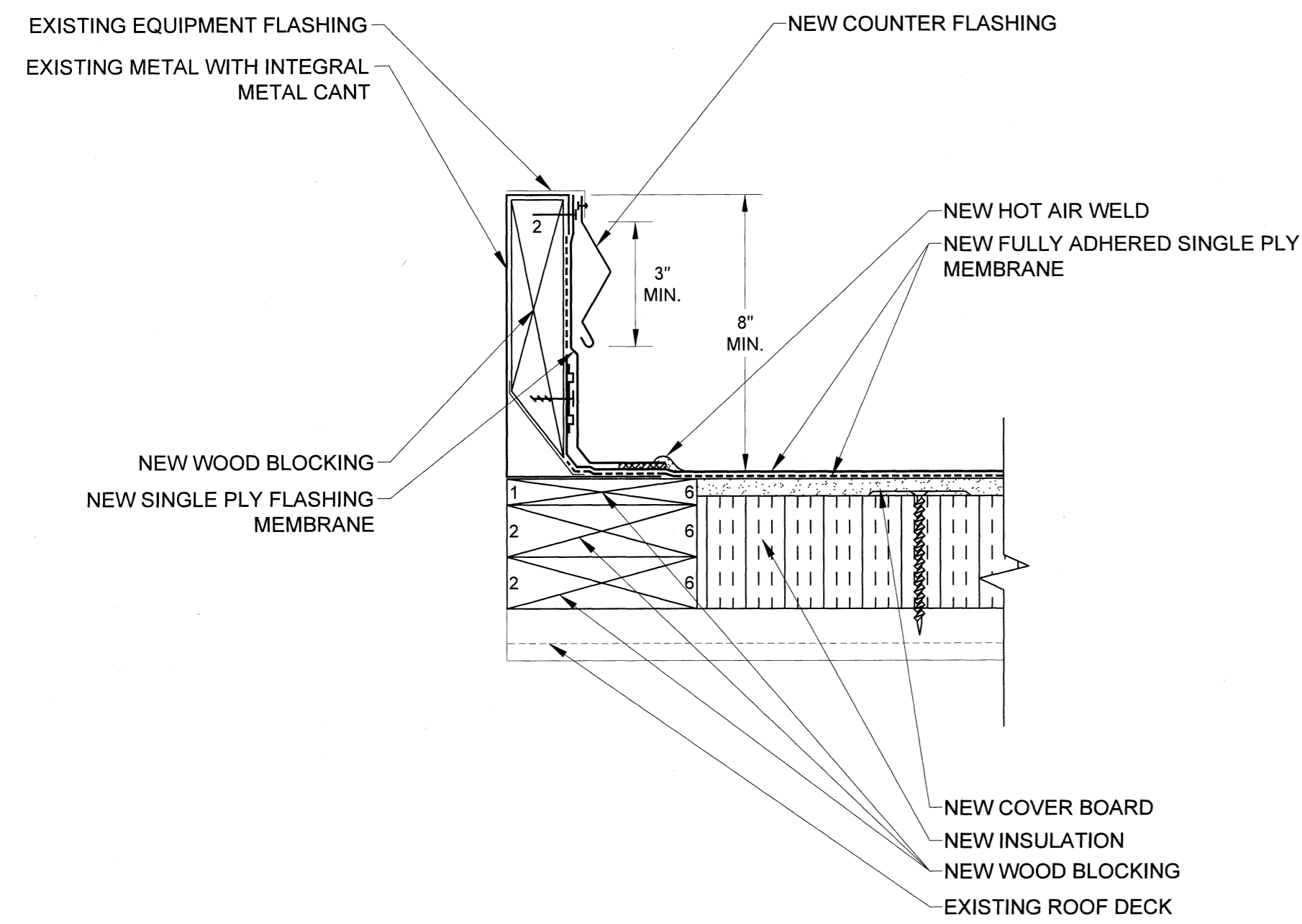
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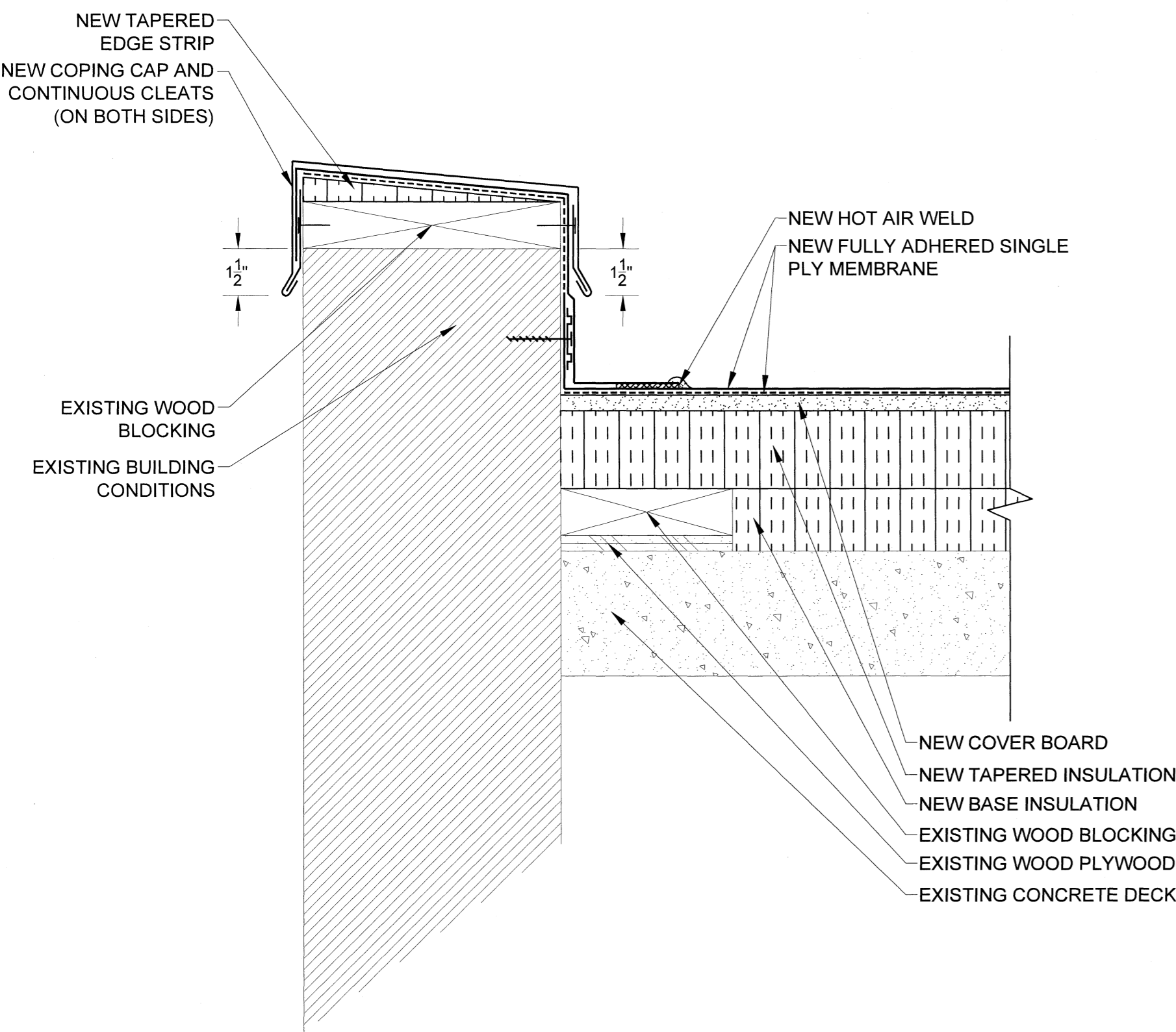
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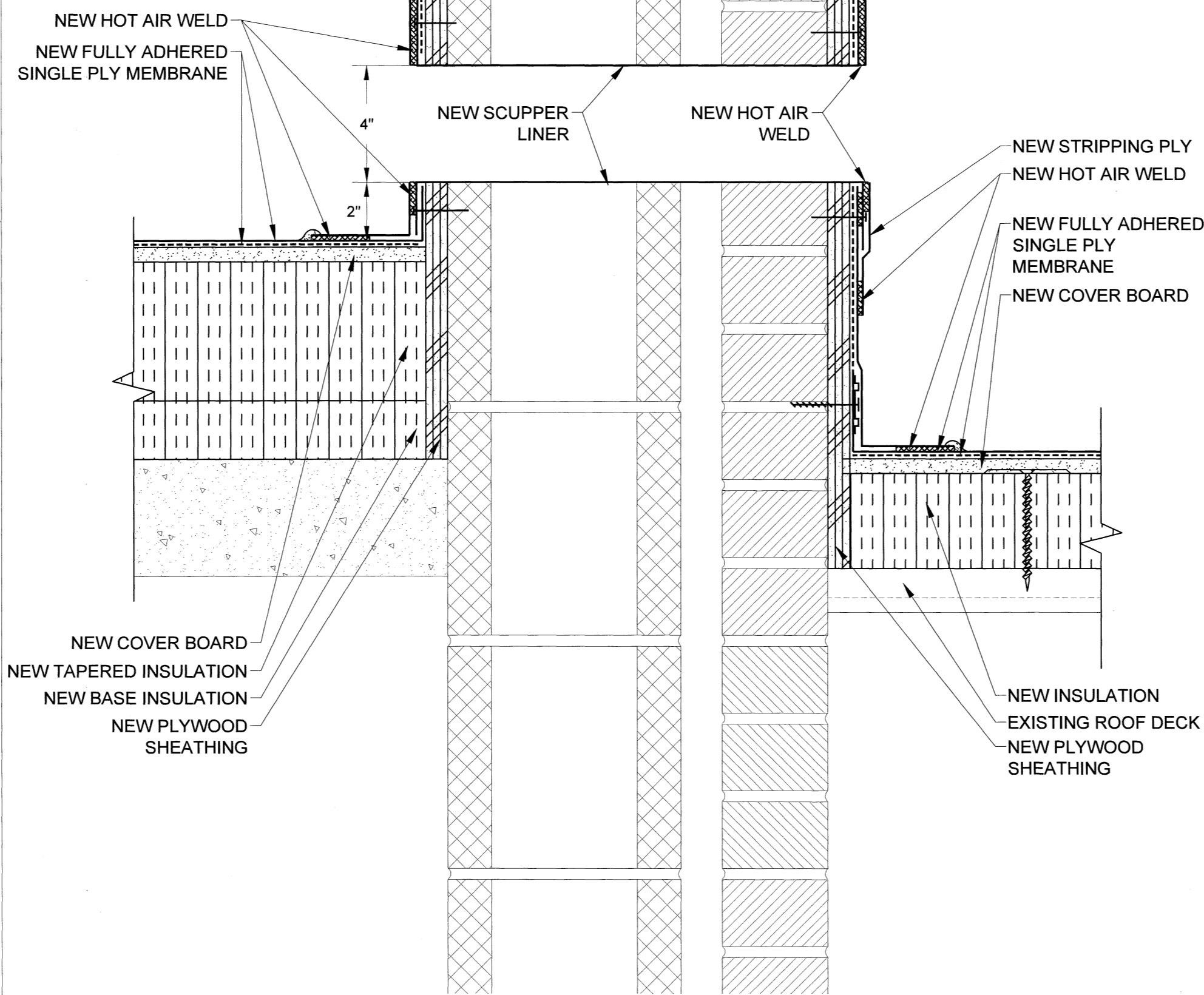
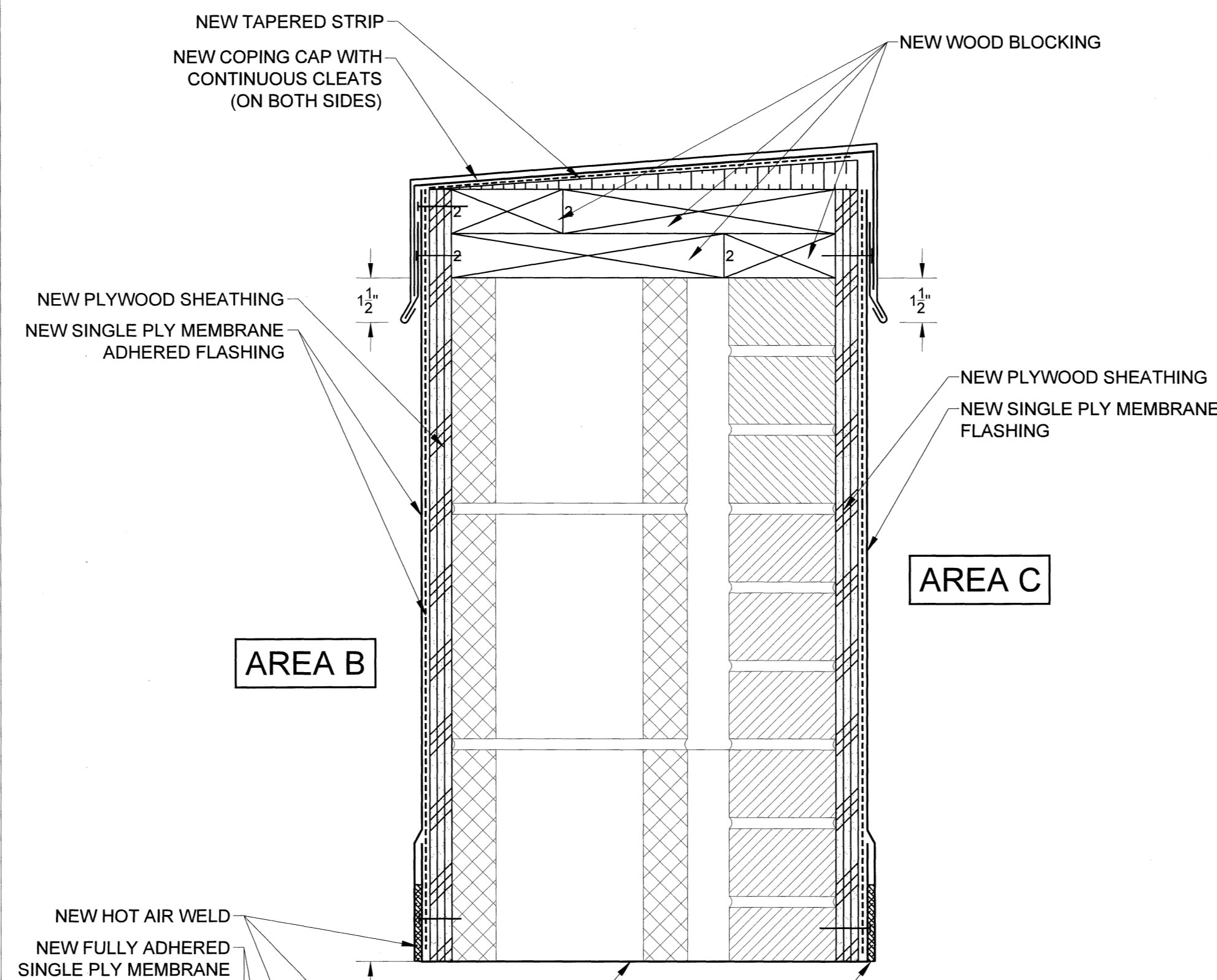
SHEET NUMBER:
R-202



D13 EQUIPMENT CURB
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

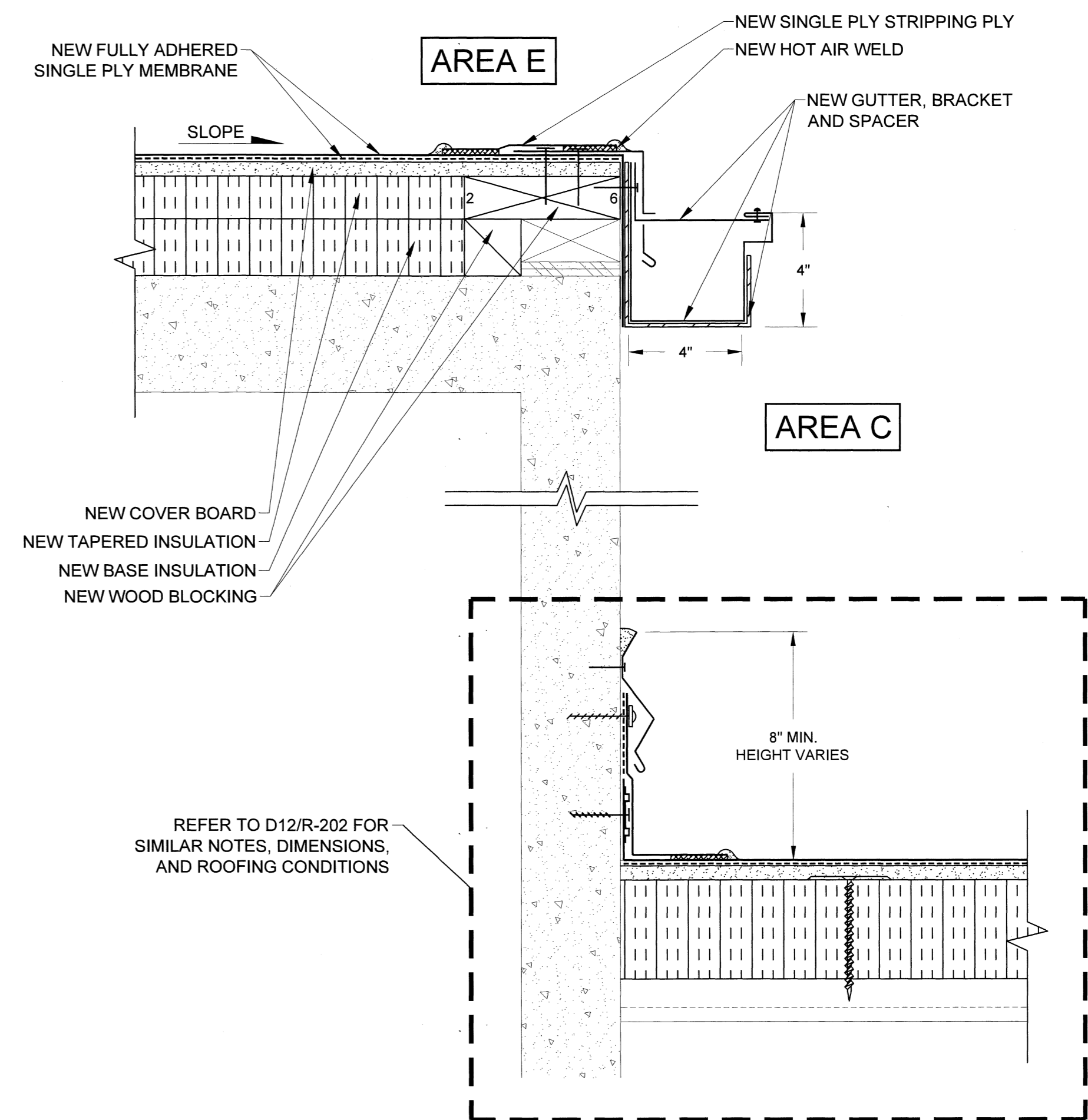


D16 WALL FLASHING DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

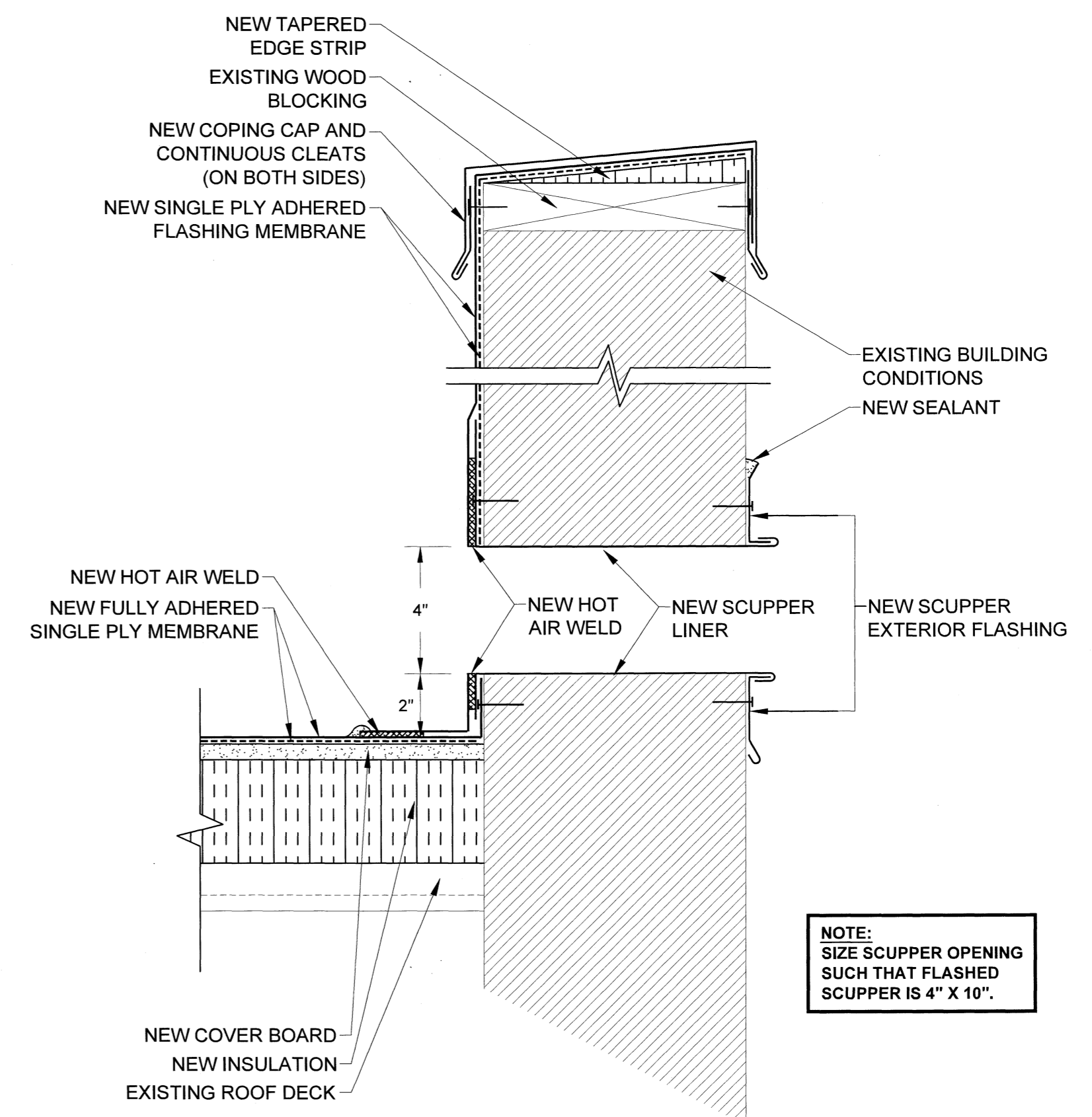


NOTE:
SIZE SCUPPER OPENING
SUCH THAT FLASHED
SCUPPER IS 4" X 10".

D14 AREA B: OVERFLOW SCUPPER
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"



D15 FASCIA AND BASE FLASHING DETAIL
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"



NOTE:
SIZE SCUPPER OPENING
SUCH THAT FLASHED
SCUPPER IS 4" X 10".

D17 OVERFLOW SCUPPER
SCALE: 3" = 1"
0 1" 2" 3" 4" 6"

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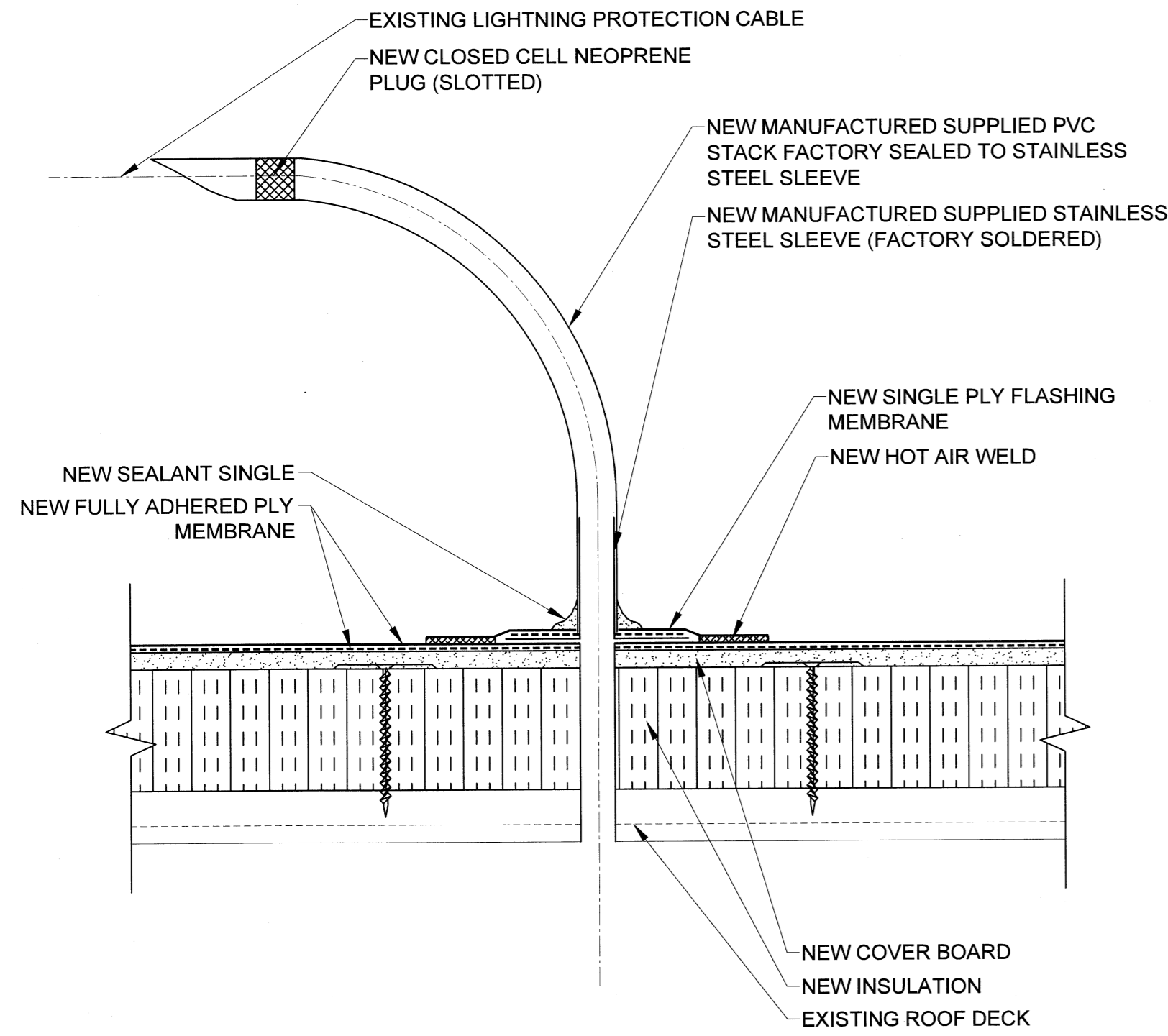
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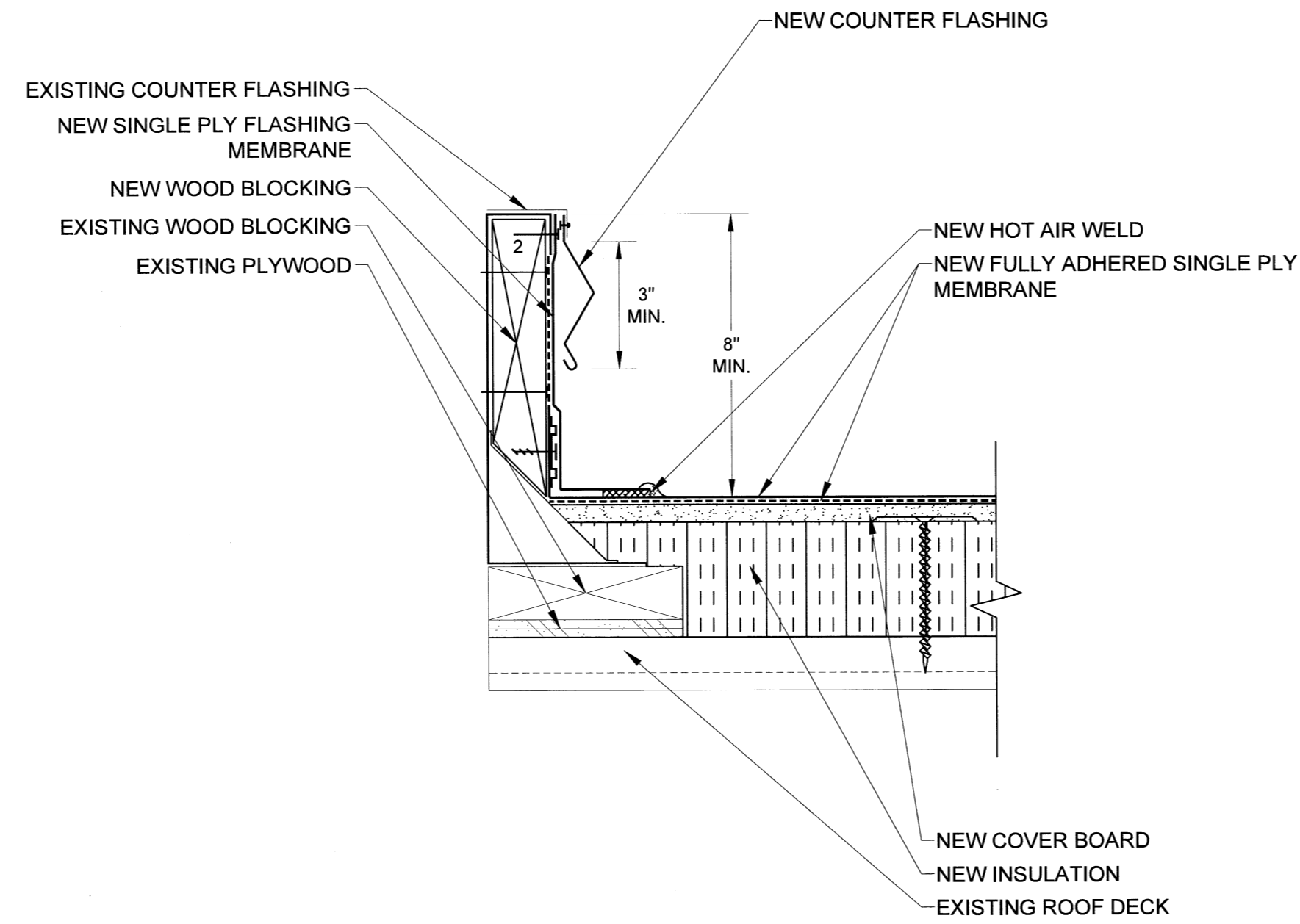
ROOF DETAILS

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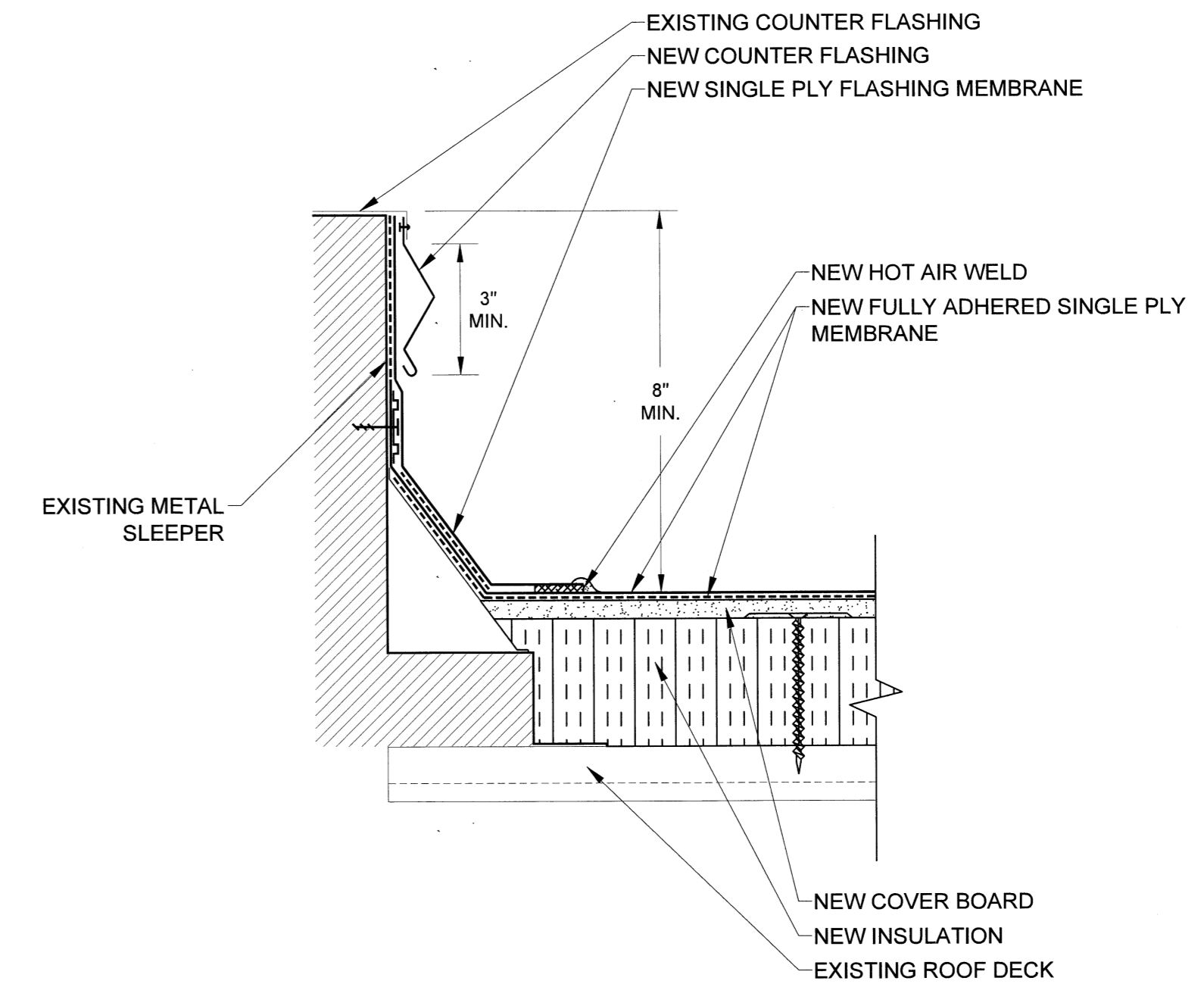
R-203



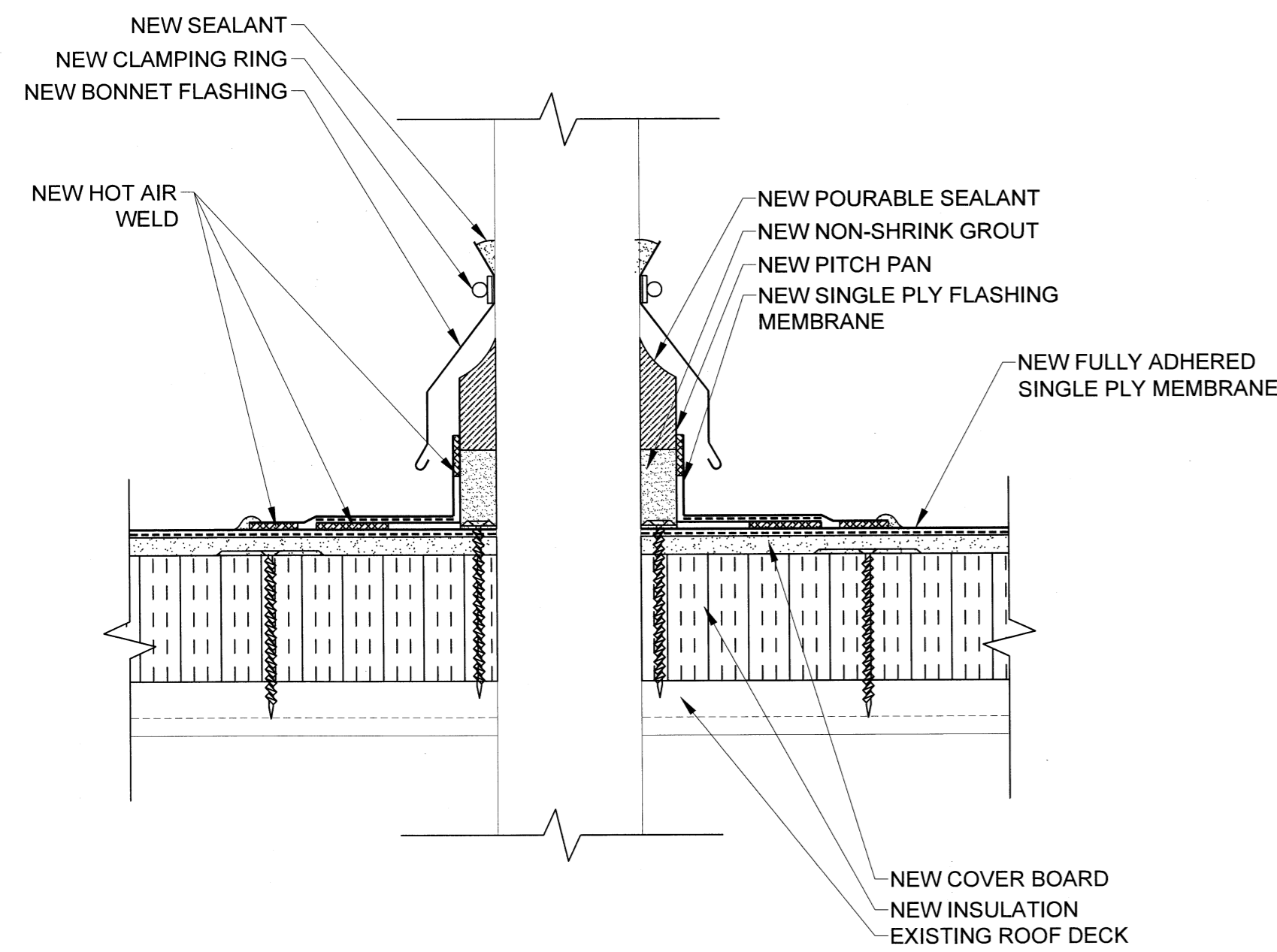
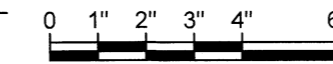
D18 LIGHTNING PROTECTION SYSTEM PENETRATION DETAIL
SCALE: 3" = 1"



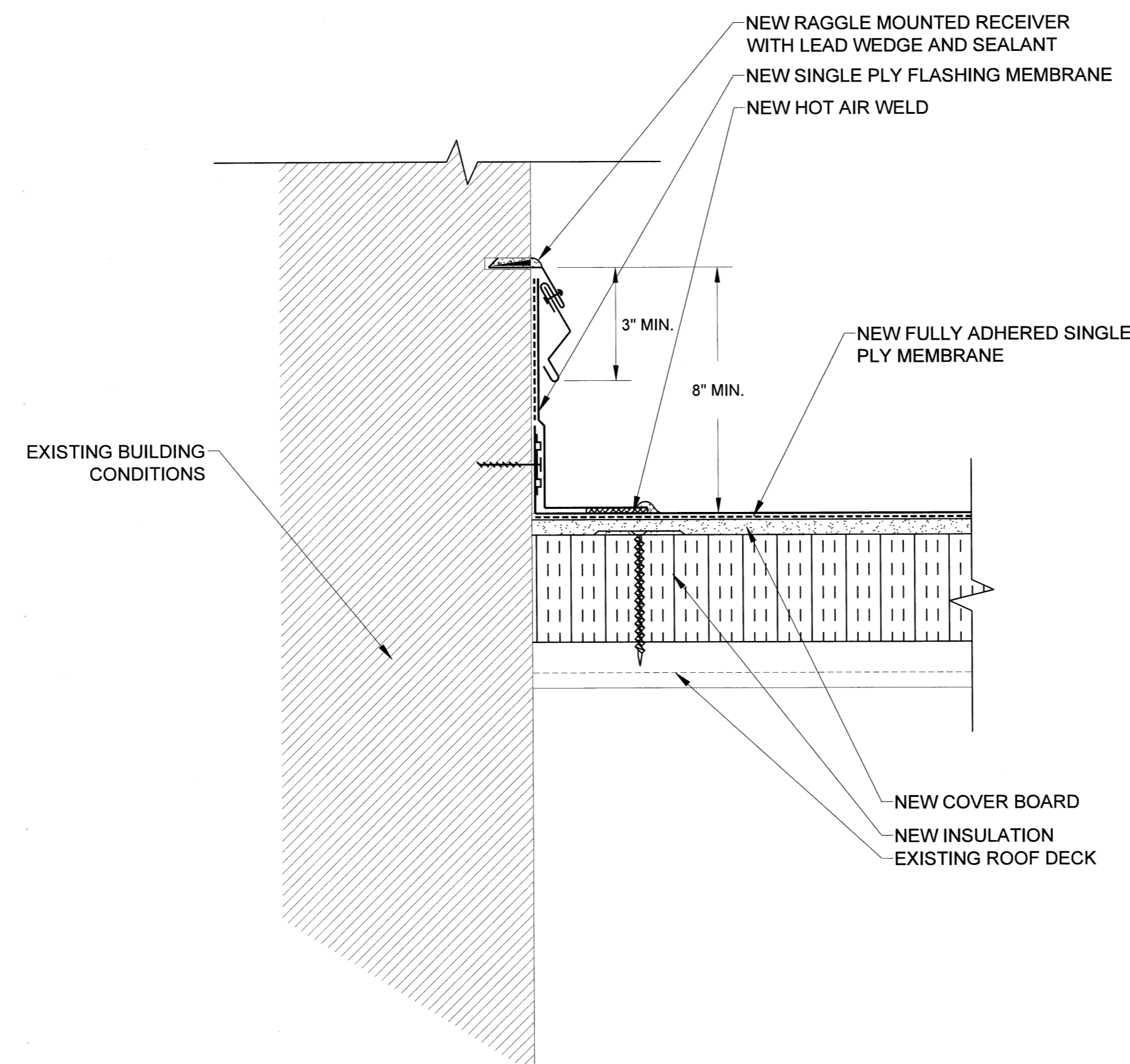
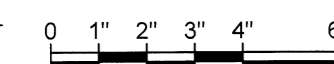
D19 EQUIPMENT CURB DETAIL
SCALE: 3" = 1"



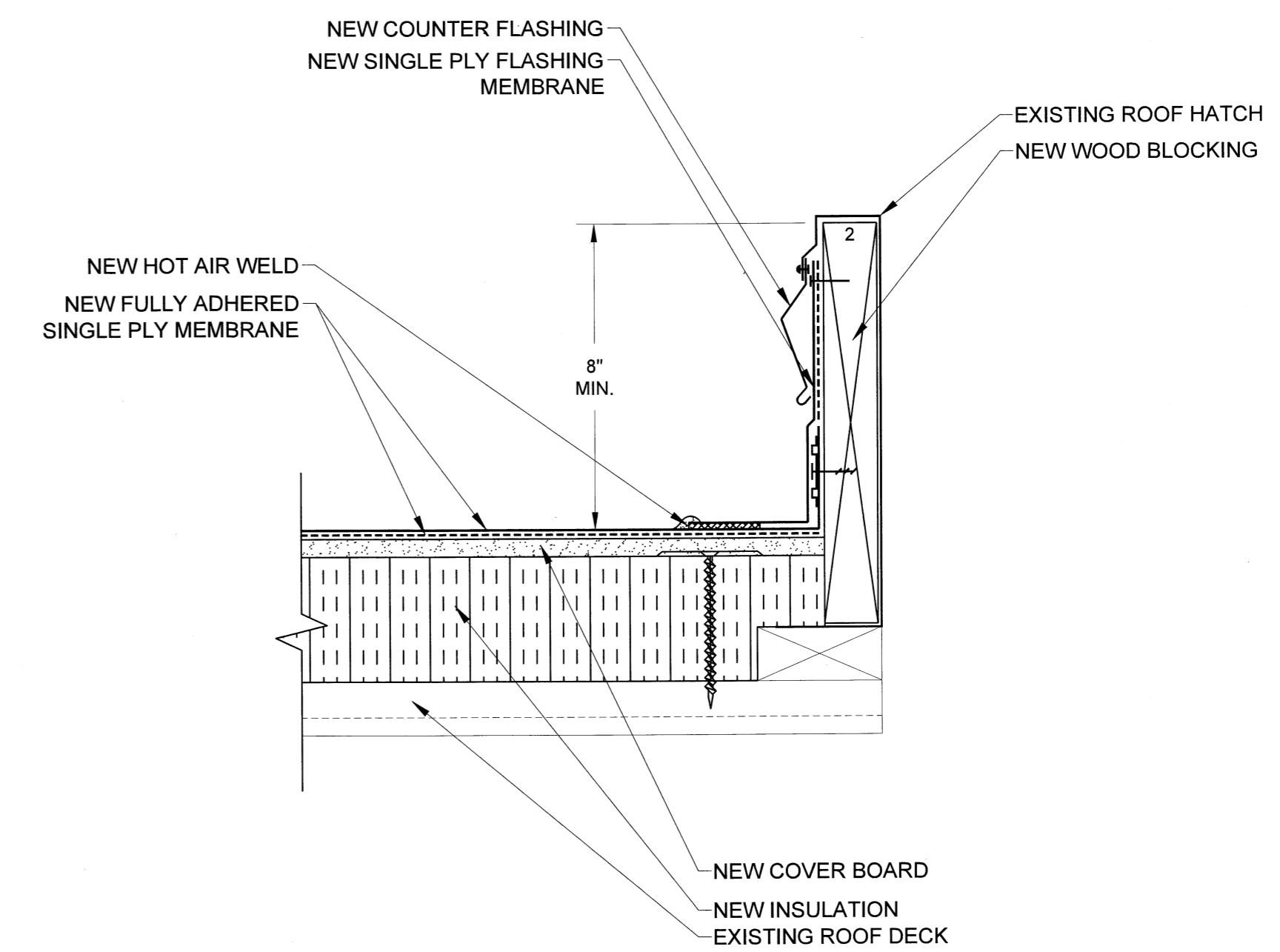
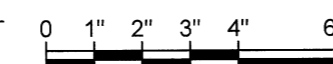
D20 FLASHED SLEEPER DETAIL
SCALE: 3" = 1"



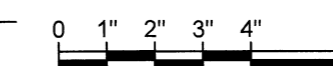
D21 EQUIPMENT DETAIL
SCALE: 3" = 1"



D22 BASE FLASHING DETAIL
SCALE: 3" = 1"



D23 ROOF HATCH DETAIL
SCALE: 3" = 1"



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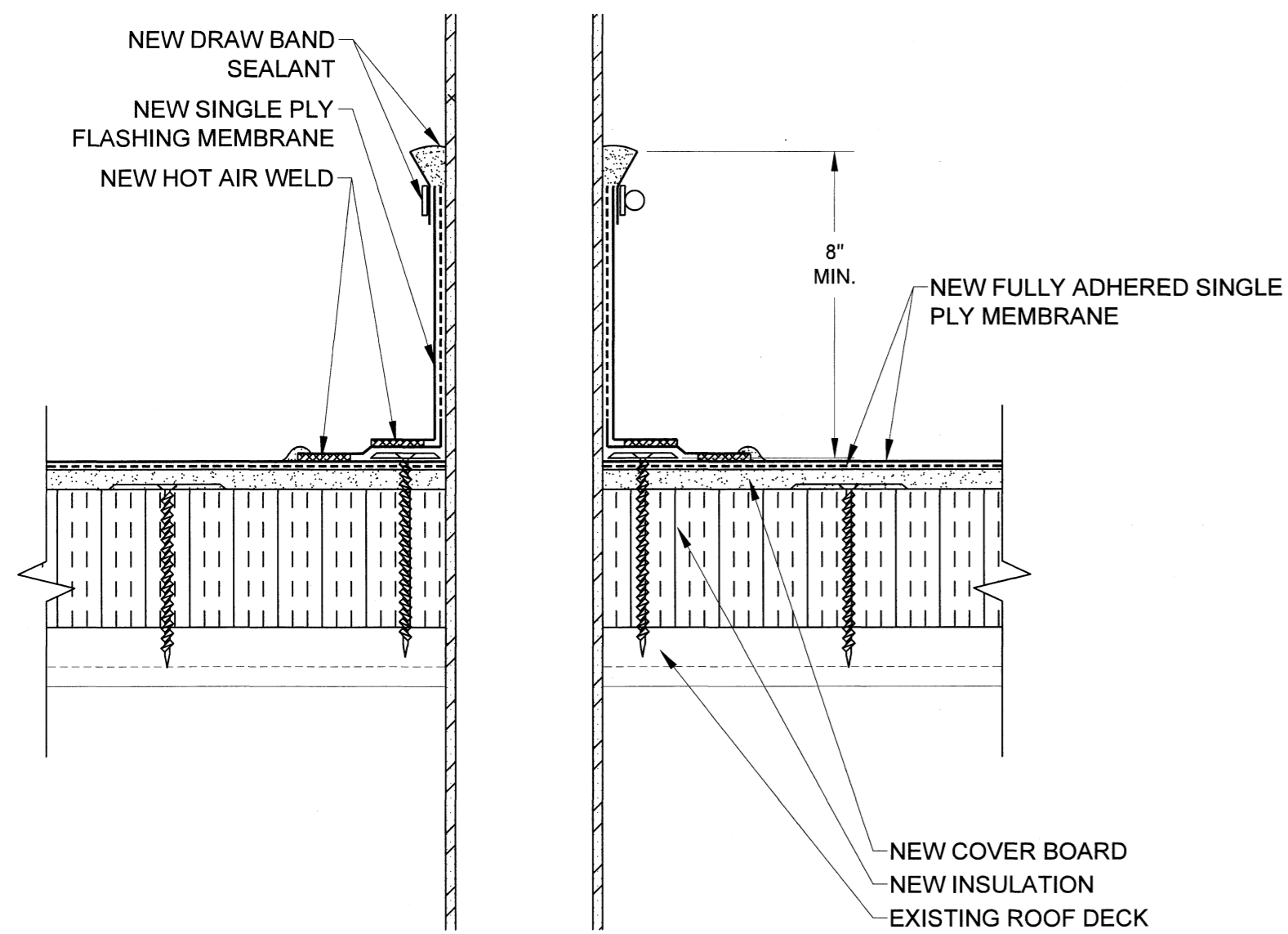
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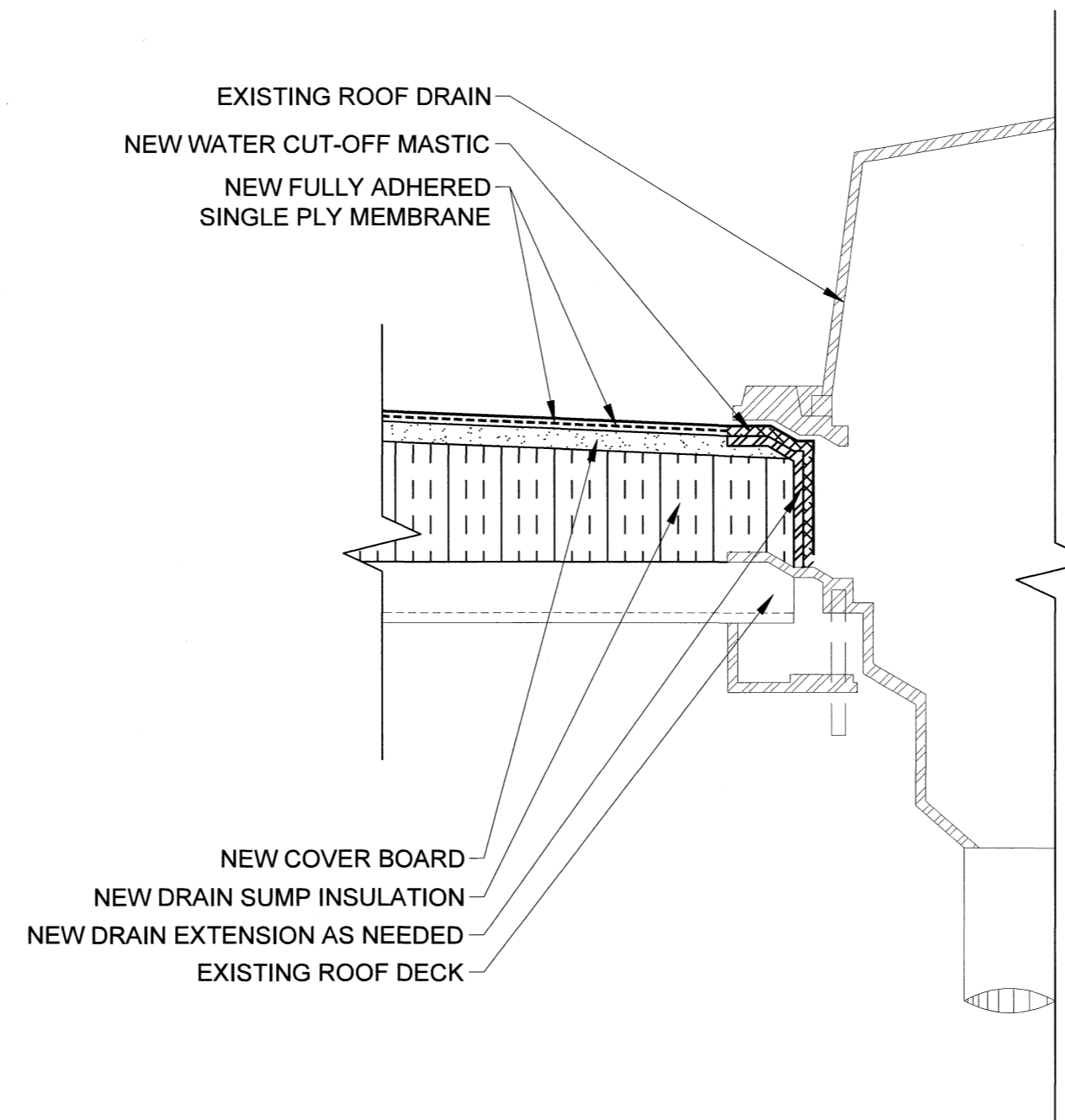
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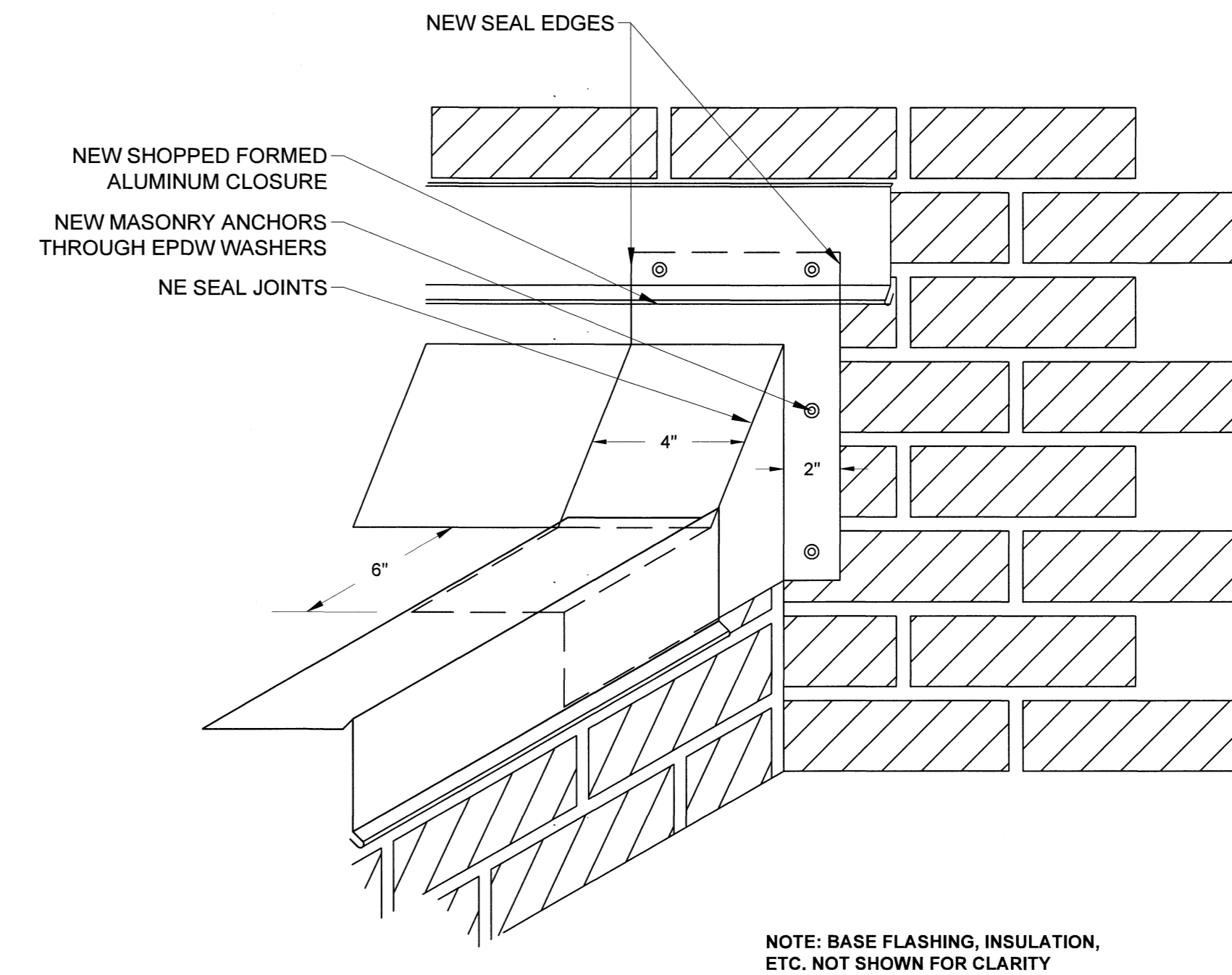
R-204



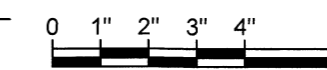
D24 PIPE PENETRATION
SCALE: 3" = 1"



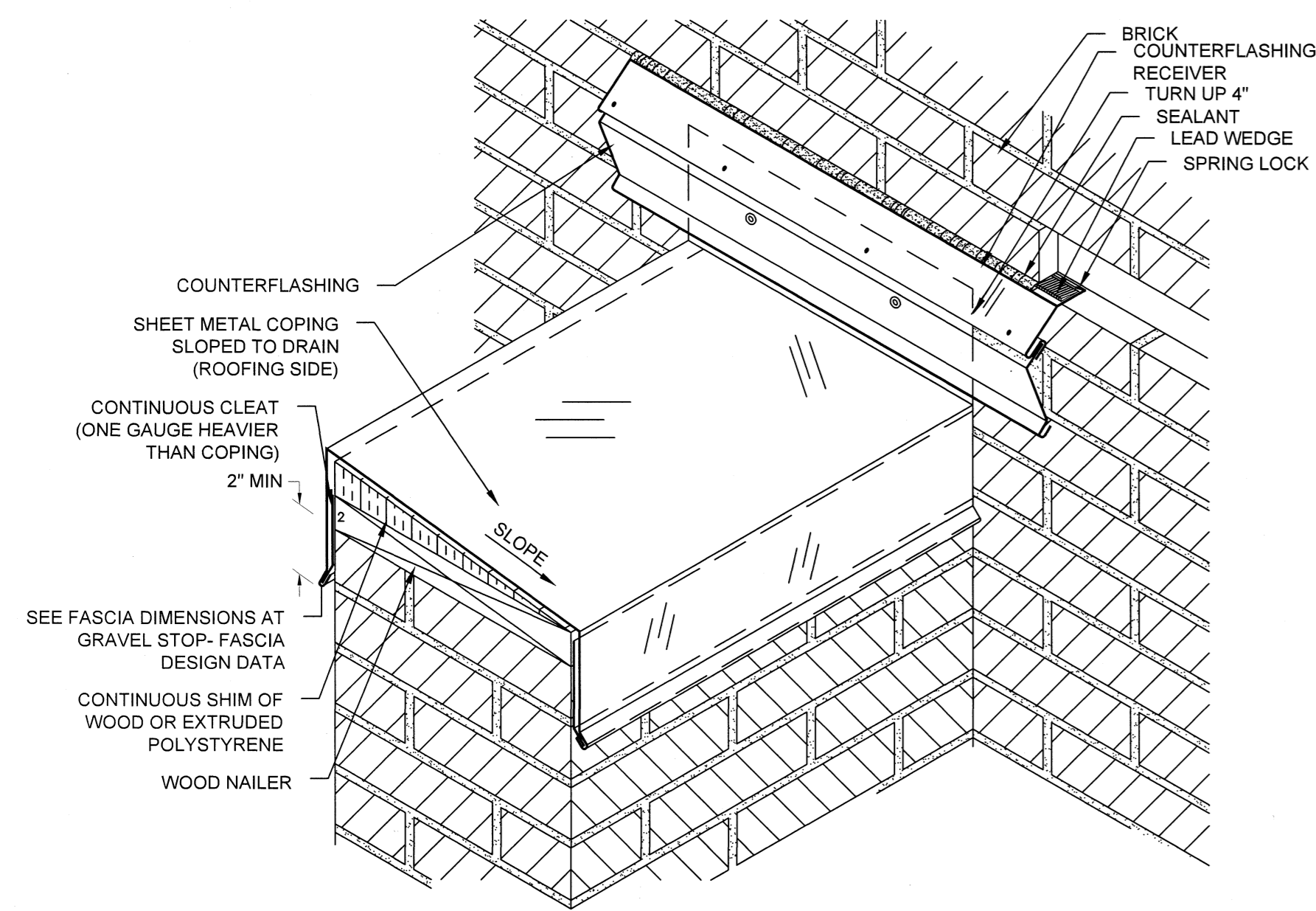
D25 ROOF DRAIN
SCALE: 3" = 1"



D26 BASE FLASHING CLOSURE
SCALE: 3" = 1"



NOTE: BASE FLASHING, INSULATION, ETC. NOT SHOWN FOR CLARITY



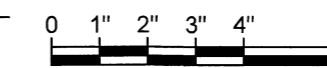
D27 COPING TERMINATION
SCALE: 3" = 1"



D28 NOT IN USE
SCALE: 3" = 1"



D29 NOT IN USE
SCALE: 3" = 1"



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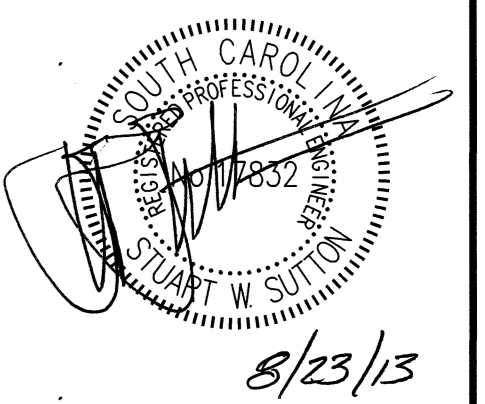
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SHEET TITLE:

ROOF DETAILS

SHEET NUMBER:

R-205