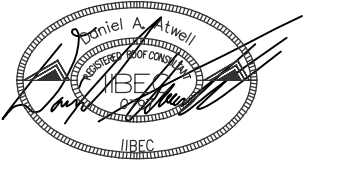


SCC - HEALTH SCIENCES BUILDING REROOF PROJECT

STATE PROJECT NUMBER: H59-6352-TM

WMBE PROJECT NUMBER: 2025-08



DESIGNED: DANIEL ATWELL

SCC - HEALTH SCIENCES
BUILDING REROOF PROJECT

STATE PROJECT NUMBER: H59-6352-TM

ADDRESS:
850 BRISACK ROAD
SPARTANBURG, SC 29303



COLUMBIA AREA OFFICE

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CHAPIN, SOUTH CAROLINA
EMAIL: CHRIS@WMBECONSULTANTS.COM
EMAIL: DANIEL@WMBECONSULTANTS.COM

CHARLESTON AREA OFFICE

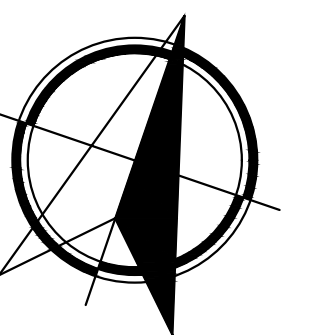
226 N. LIVE OAK DRIVE
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EMAIL: JOE@WMBECONSULTANTS.COM
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PROJECT NUMBER: 2025-08

CONSTRUCTION DOCUMENTS

DATE: 12-04-2025

COVER SHEET

R-1.0

DRAWING LEGEND

- ROOF AREA DESIGNATION
- SLOPE ARROW
- ROOF DRAIN
- OVERFLOW DRAIN
- VENT THROUGH ROOF
- VENTILATOR
- PARAPET WALL
- ROOF EDGE
- EXPANSION JOINT
- ROOF HATCH
- GOOSE NECK WITH CURB
- STACK WITH CURB
- SKYLIGHT
- HANDRAIL
- GUTTER W/ DOWNSPOUT / SPLASH BLOCK

SITE LOCATION



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FACILITY MAP



SCC - HEALTH SCIENCE BUILDING
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LOCATION MAP

CODE/INDUSTRY STANDARD
REFERENCES

2021 IBC
2021 IEBC
2009 IECC
NRCA - LATEST EDITION
SMACNA - LATEST EDITION

WIND UPLIFT

SEE SPECIFICATIONS
SEISMIC REQUIREMENTS - IEBC

DRAWING SHEETS

R-1.0 COVER PAGE
R-1.1 EXISTING ROOF PLAN
R-1.2 NEW ROOF PLANS
R-1.3 TAPER PLAN
R-1.4 WIND UPLIFT PLAN
D-1.1 DETAILS
D-1.2 DETAILS

ABBREVIATIONS

MIN MINIMUM
MAX MAXIMUM
NRCA NATIONAL ROOFING CONTRACTORS ASSOCIATION
O.C. ON CENTER
SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS
NATIONAL ASSOCIATION

JOB CONTACTS

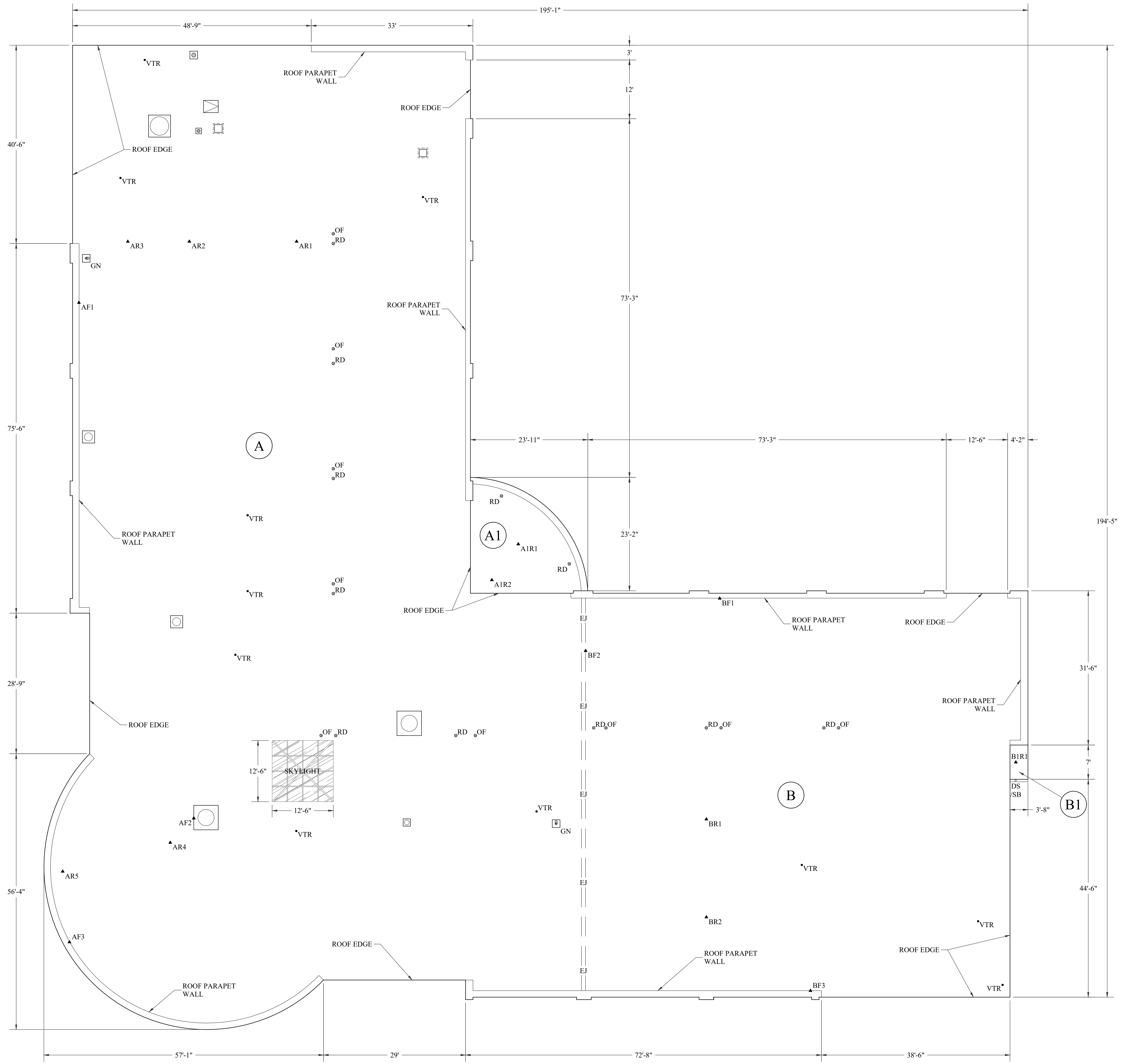
WMBE DANIEL ATWELL
803-422-7493
DANIEL@WMBECONSULTANTS.COM

EXISTING ROOF CORE SUMMARY

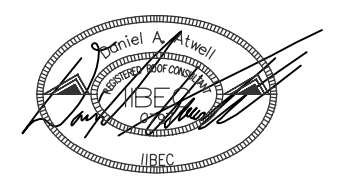
▲ XRX CORE NUMBER AND IDENTIFIER	▲ XFX FLASHING NUMBER AND IDENTIFIER	PERLITE		
METAL DECK = 3/4"		METAL DECK = 3/4"		
POLYISOCYANURATE = 2"		POLYISOCYANURATE = 2"		
PERLITE TOTAL THICKNESS = 3"		AIR1 GBUR PERLITE = 3"		
METAL DECK = 3/4"		POLYISOCYANURATE = 2"		
POLYISOCYANURATE = 2"		METAL DECK TOTAL THICKNESS = 5-1/2"		
PERLITE TOTAL THICKNESS = 3"		AIR2 GBUR PERLITE TOTAL THICKNESS = 8"		
METAL DECK = 3/4"		METAL DECK = 3/4"		
POLYISOCYANURATE = 2"		POLYISOCYANURATE = 2"		
PERLITE TOTAL THICKNESS = 3"		PERLITE TOTAL THICKNESS = 3"		
METAL DECK = 3/4"		METAL DECK = 3/4"		
POLYISOCYANURATE = 2"		POLYISOCYANURATE = 2"		
PERLITE TOTAL THICKNESS = 3"		PERLITE TOTAL THICKNESS = 3"		
METAL DECK = 3/4"		METAL DECK = 3/4"		
POLYISOCYANURATE = 2"		POLYISOCYANURATE = 2"		
PERLITE TOTAL THICKNESS = 3"		PERLITE TOTAL THICKNESS = 3"		
		BIR1 MODIFIED BITUMEN POLYISOCYANURATE METAL DECK TOTAL THICKNESS = 2-1/2"		

NOTE:
 1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, PENETRATIONS, & EXISTING ROOF CORE SUMMARY.

ROOF SQUARE FOOTAGE:
 ROOF AREA "A" - 17,808 SQFT / 179 SQUARES
 ROOF AREA "A1" - 435 SQFT / 5 SQUARES
 ROOF AREA "B" - 7,310 SQFT / 74 SQUARES
 ROOF AREA "B1" - 26 SQFT / 1 SQUARE
 TOTAL ROOF AREA - 25,579 SQFT / 256 SQUARES



1
 R-1.1
 3/32" = 1'-0"
EXISTING ROOF PLAN



DESIGNED: DANIEL ATWELL

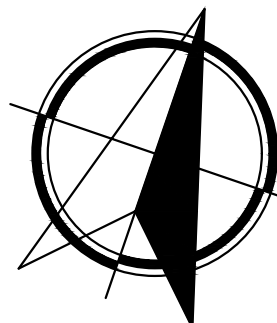
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 226 N. LIVE OAK DRIVE
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 CONSTRUCTION DOCUMENTS
 DATE: 12-04-2025

EXISTING ROOF PLAN

R-1.1

NEW ROOF PLAN NOTES:

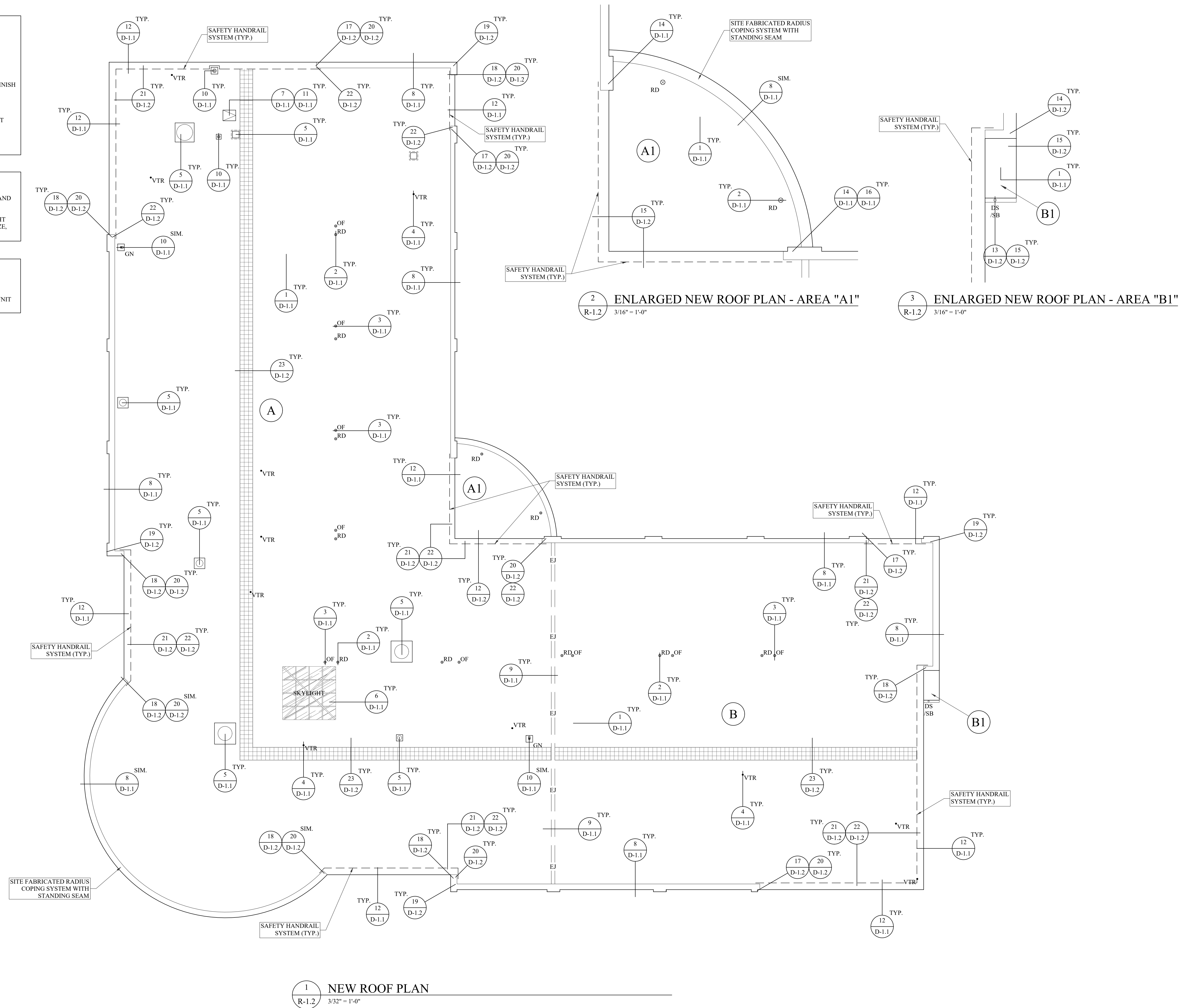
1. ALL ROOF CURBS SHALL BE RAISED TO HAVE 8" BASE FLASHING FROM FINISH ROOF MEMBRANE.
2. WALK PADS SHALL BE INSTALLED AS INDICATED ON PROJECT DRAWINGS.
3. EXPANSION JOINT SHALL BE RAISED TO BE 10" ABOVE FINISH ROOF MEMBRANE.
4. SAFETY HANDRAILS SHALL BE INSTALLED PER MANUFACTURERS REQUIREMENTS AT ALL ROOF EDGE CONDITIONS AND SECURED TO THE PERIMETER PARAPET WALL.
5. ALL RUSTED CURB HOODS TO BE CLEANED, PRIMED, & PAINTED OR REPLACED WITH NEW.

SKYLIGHT NOTES:

1. BASE BID INCLUDES REPLACEMENT OF ALL SEALANTS AND WET GLAZING AT EXISTING SKYLIGHT.
2. ALTERNATE NO. TWO INCLUDES THE EXISTING SKYLIGHT BEING REPLACED WITH NEW TO MATCH EXISTING IN SIZE, GLASS COLOR, FRAMING, ETC.

WALK PAD NOTES:

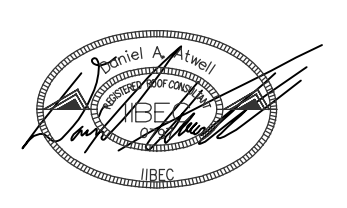
1. WALK PADS SHALL BE INSTALLED.
2. WALK PADS TO BE INSTALLED AT EACH MECHANICAL UNIT AT SERVICE DOOR LOCATIONS. NOT SHOWN ON PLAN.



1 NEW ROOF PLAN
R-1.2 3/32" = 1'-0"

2 ENLARGED NEW ROOF PLAN - AREA "A1"
R-1.2 3/16" = 1'-0"

3 ENLARGED NEW ROOF PLAN - AREA "B1"
R-1.2 3/16" = 1'-0"



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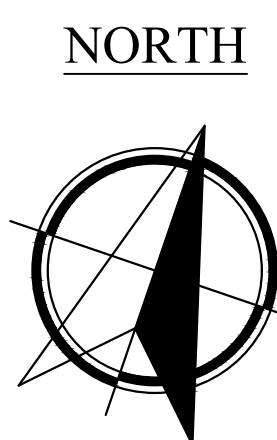


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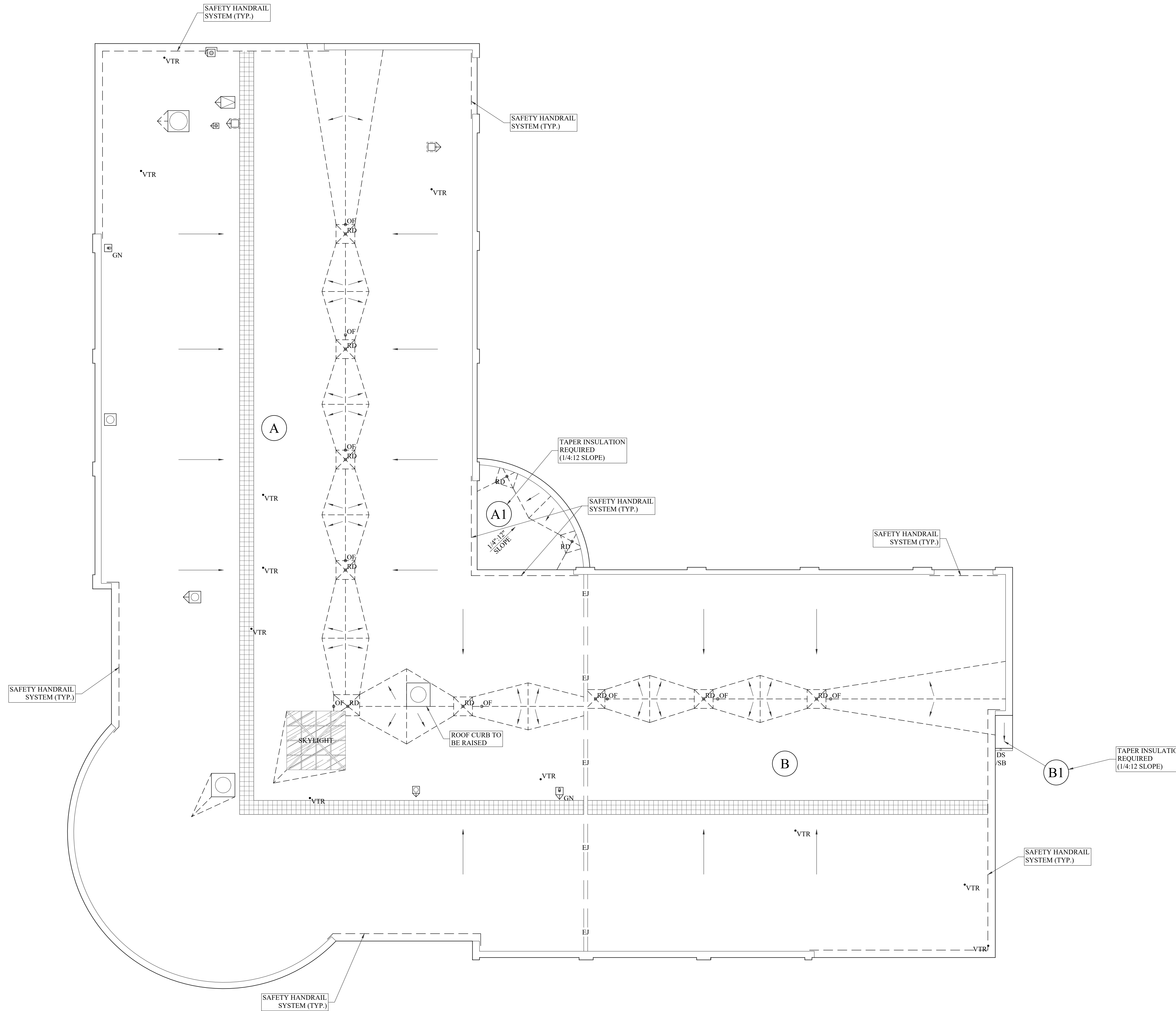
CONSTRUCTION DOCUMENTS

DATE: 12-04-2025

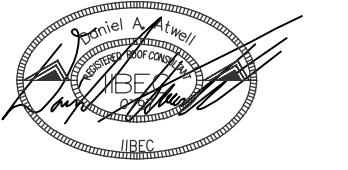
NEW ROOF PLANS

R-1.2

- TAPER NOTES:**
1. TAPER CRICKETS TO BE INSTALLED AT HIGH SIDE OF ALL ROOF CURB PENETRATIONS.
 2. TAPERED CRICKETS TO BE INSTALLED WITH A 2 TO 1 LENGTH RATIO.
 3. MIN. 6'x6' TAPERED SUMP TO BE PROVIDED AT ALL ROOF DRAIN LOCATIONS.
 4. TAPERED EDGE STRIP IS REQUIRED AT ALL TAPERED CRICKET LOCATIONS.
- CRICKET LOCATIONS:
1. TAPERED EDGE STRIP IS REQUIRED AT ALL TAPERED



1 TAPER PLAN
R-1.3 3/32" = 1'-0"



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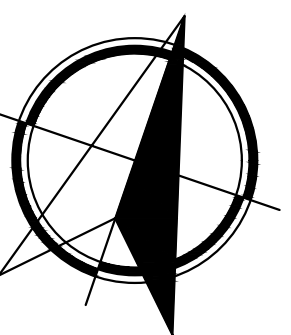
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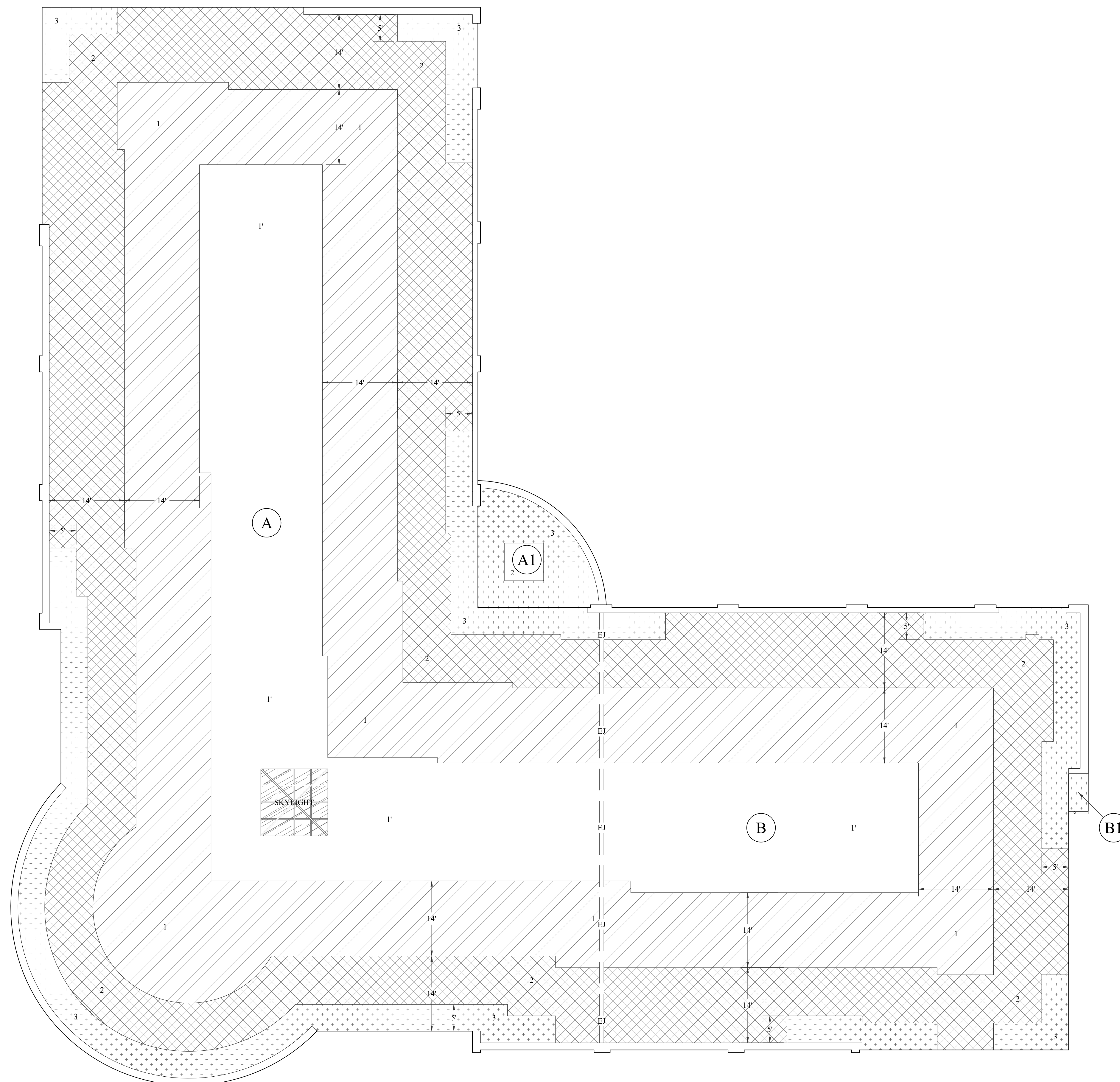
DATE: 12-04-2025

TAPER PLAN

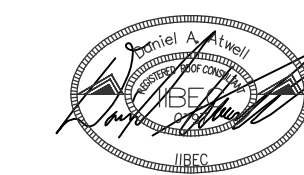
R-1.3

NOTES:

- 1) ROOF ZONE 1' = INTERIOR
- 2) ROOF ZONE 1 = FIELD
- 3) ROOF ZONE 2 = PERIMETER
- 4) ROOF ZONE 3 = CORNER



1 WIND UPLIFT PLAN
R-1.4 3/32" = 1'-0"



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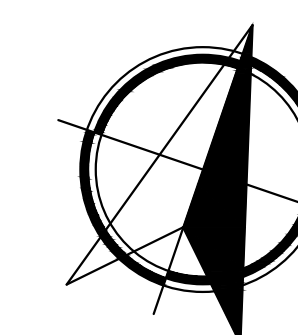
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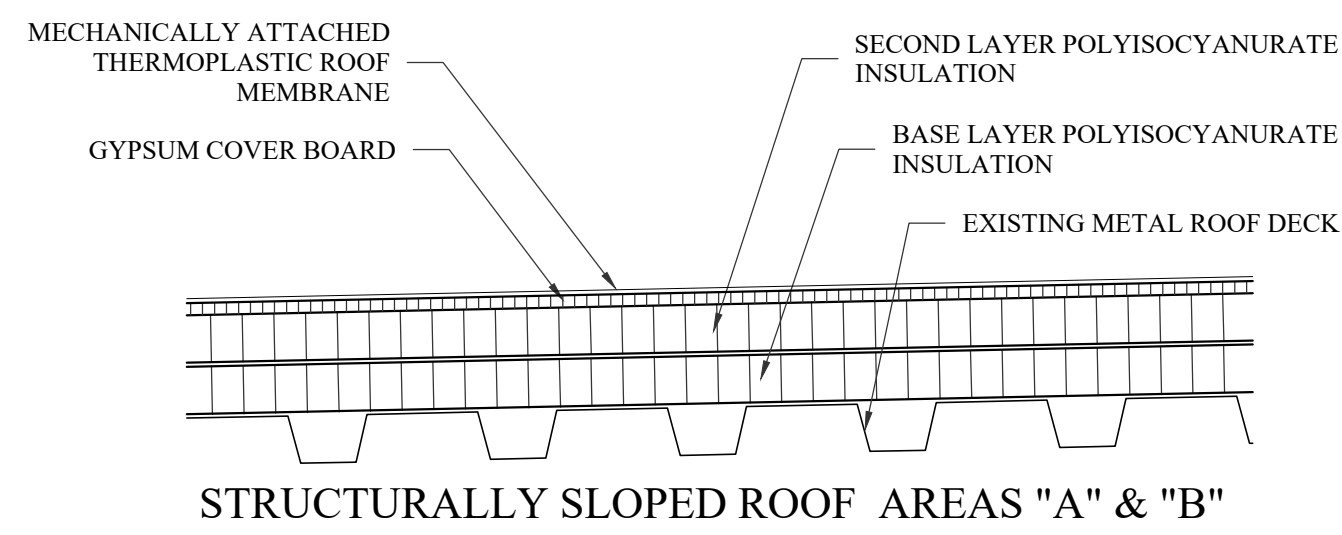
PROJECT NUMBER: 2025-08

CONSTRUCTION DOCUMENTS

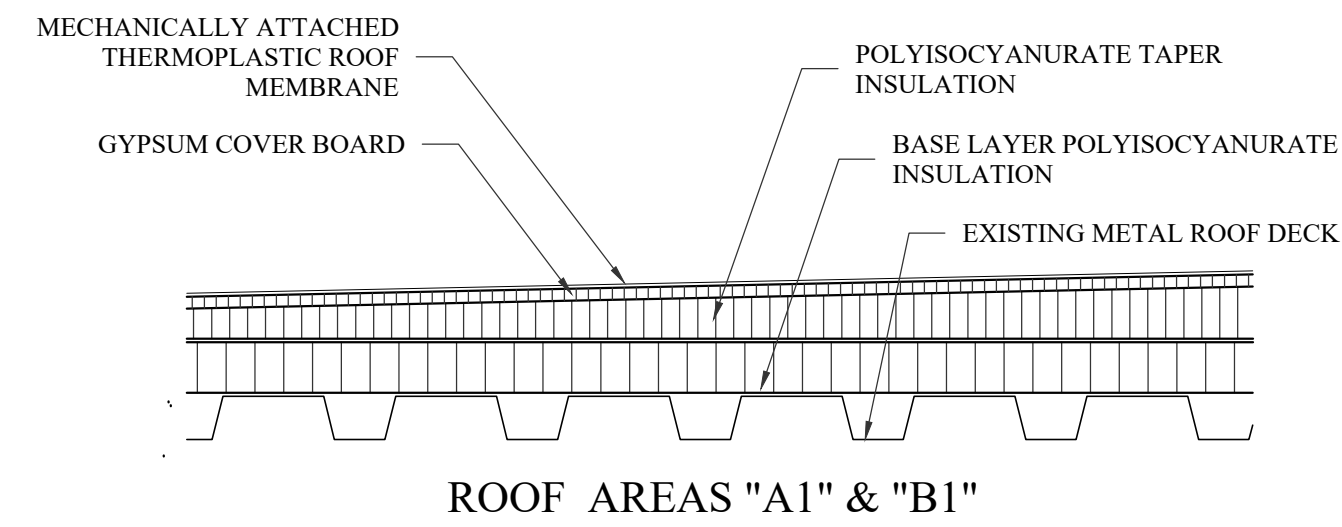
DATE: 12-04-2025

WIND UPLIFT PLAN

R-1.4



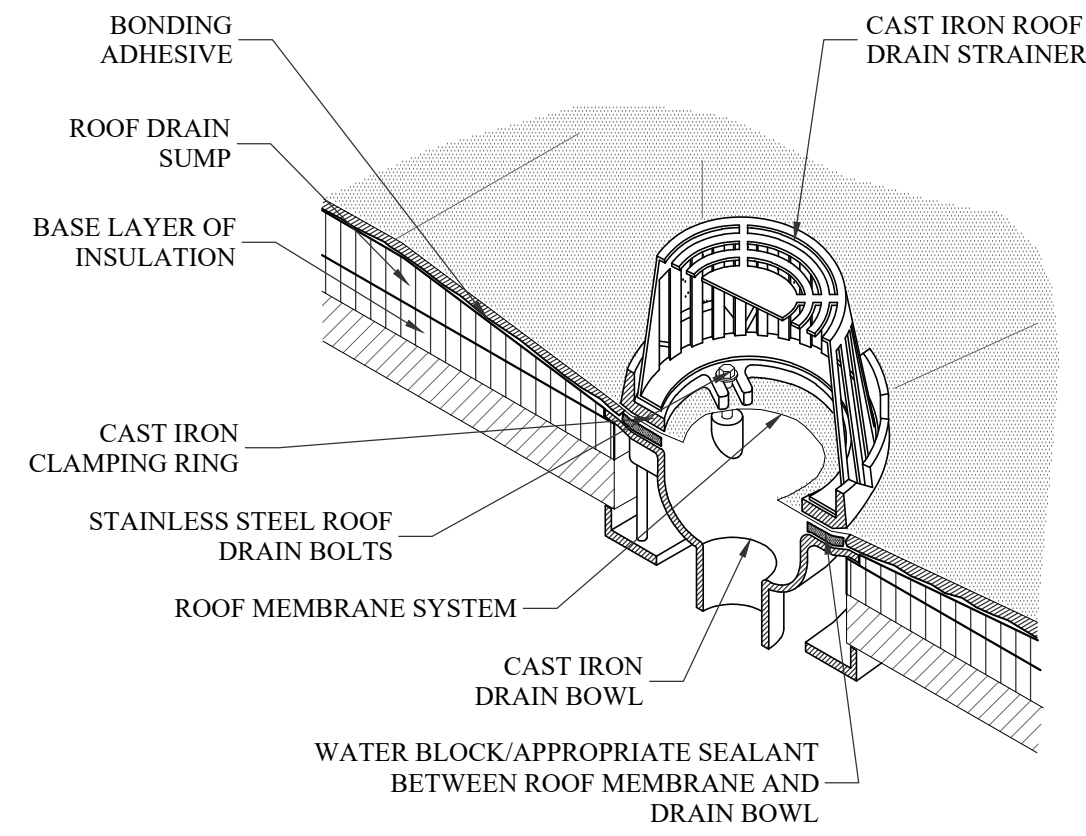
STRUCTURALLY SLOPED ROOF AREAS "A" & "B"



ROOF AREAS "A1" & "B1"

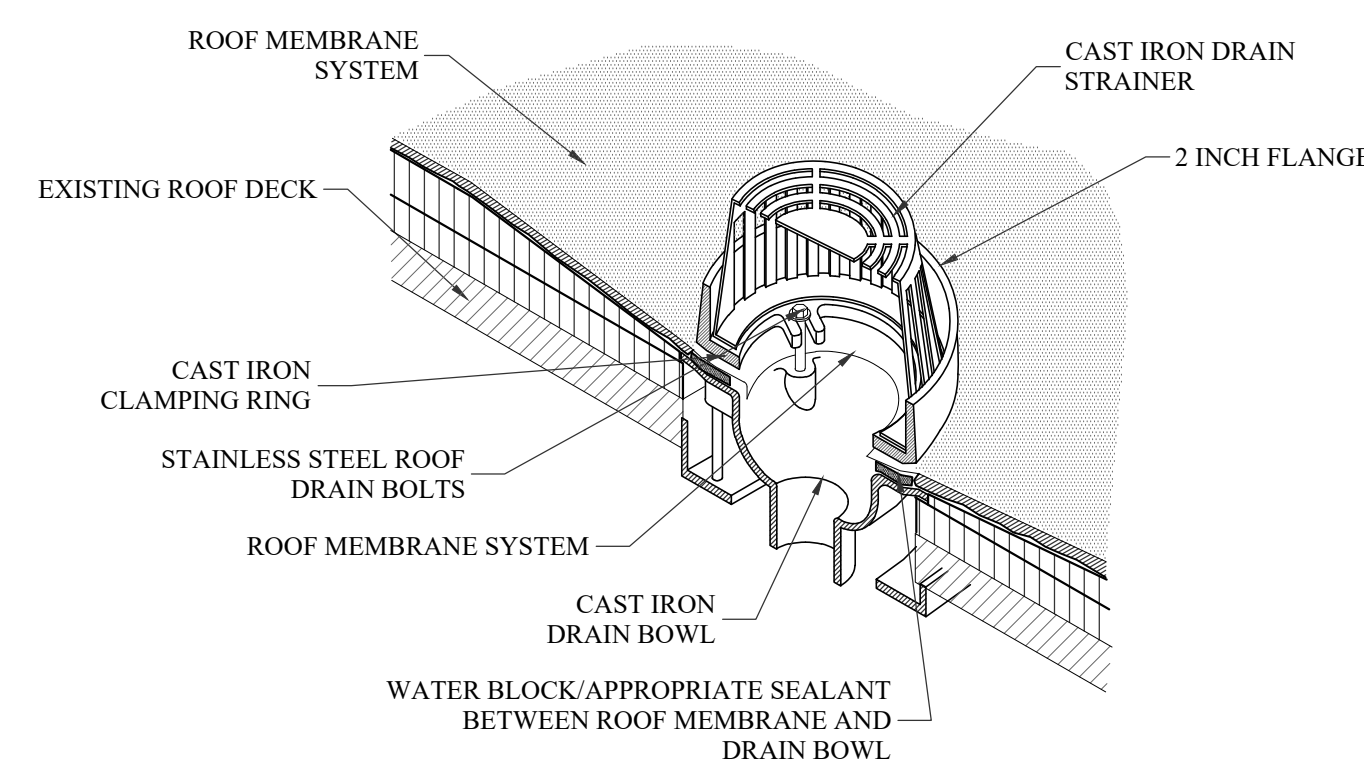
1 ROOF ASSEMBLY
D-1.1 N.T.S.

NOTE:
1. MINIMUM OF 4" x 4" SUMP AT ALL ROOF DRAIN LOCATIONS.
2. ALL ROOF DRAINS TO BE REPLACED WITH NEW.

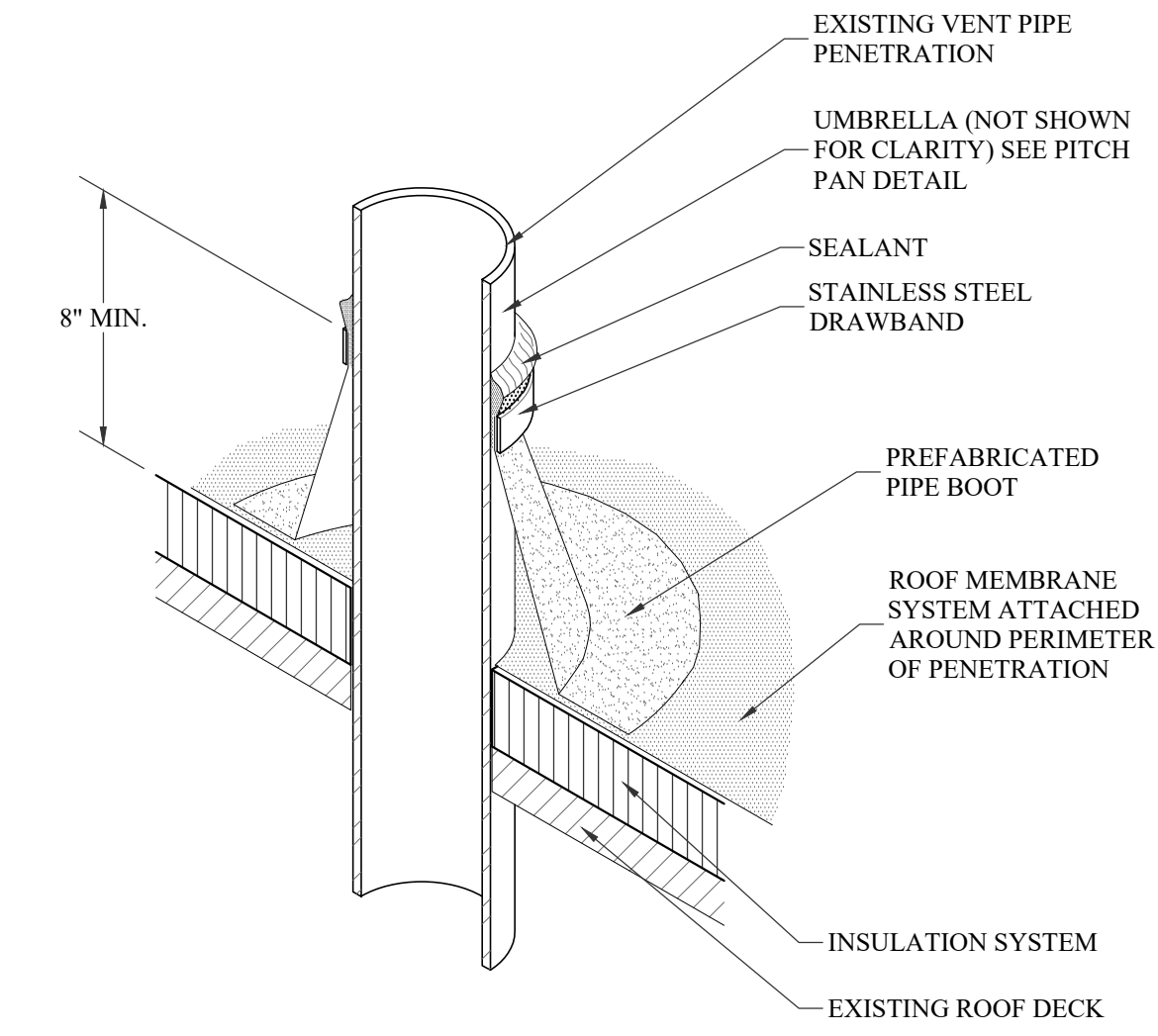


2 ROOF DRAIN
D-1.1 N.T.S.

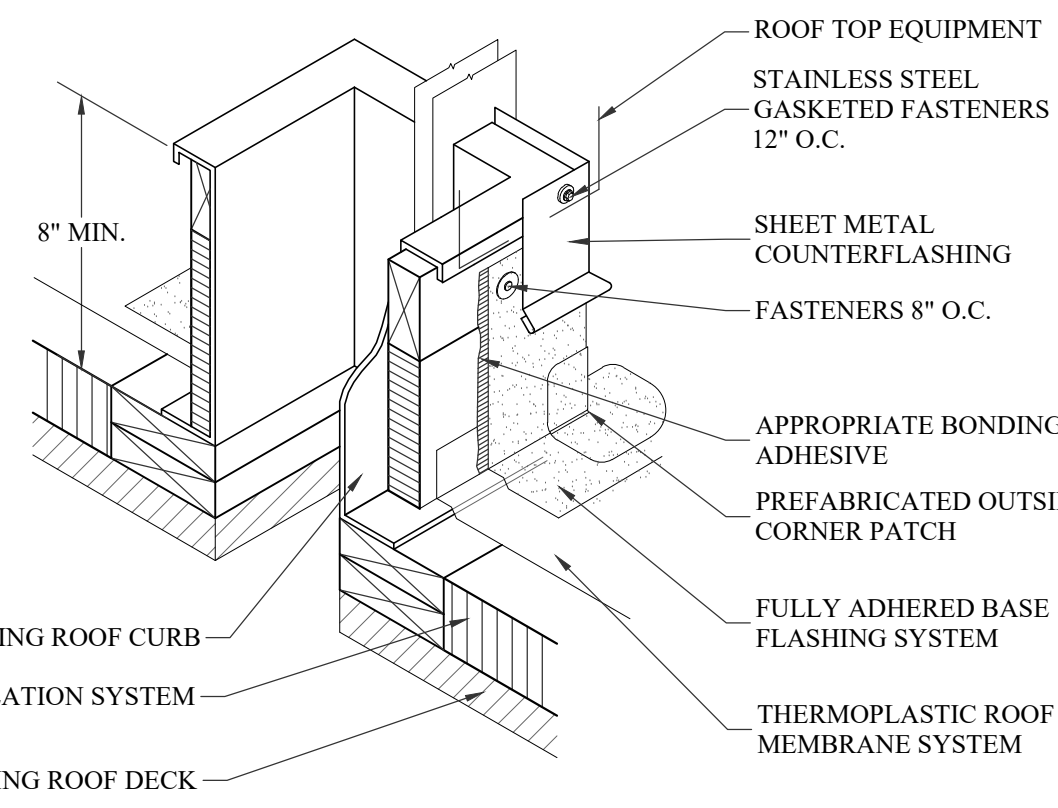
NOTES:
1. NO SUMP AT OVERFLOW DRAINS.
2. ALL OVERFLOW DRAINS TO BE REPLACED WITH NEW.



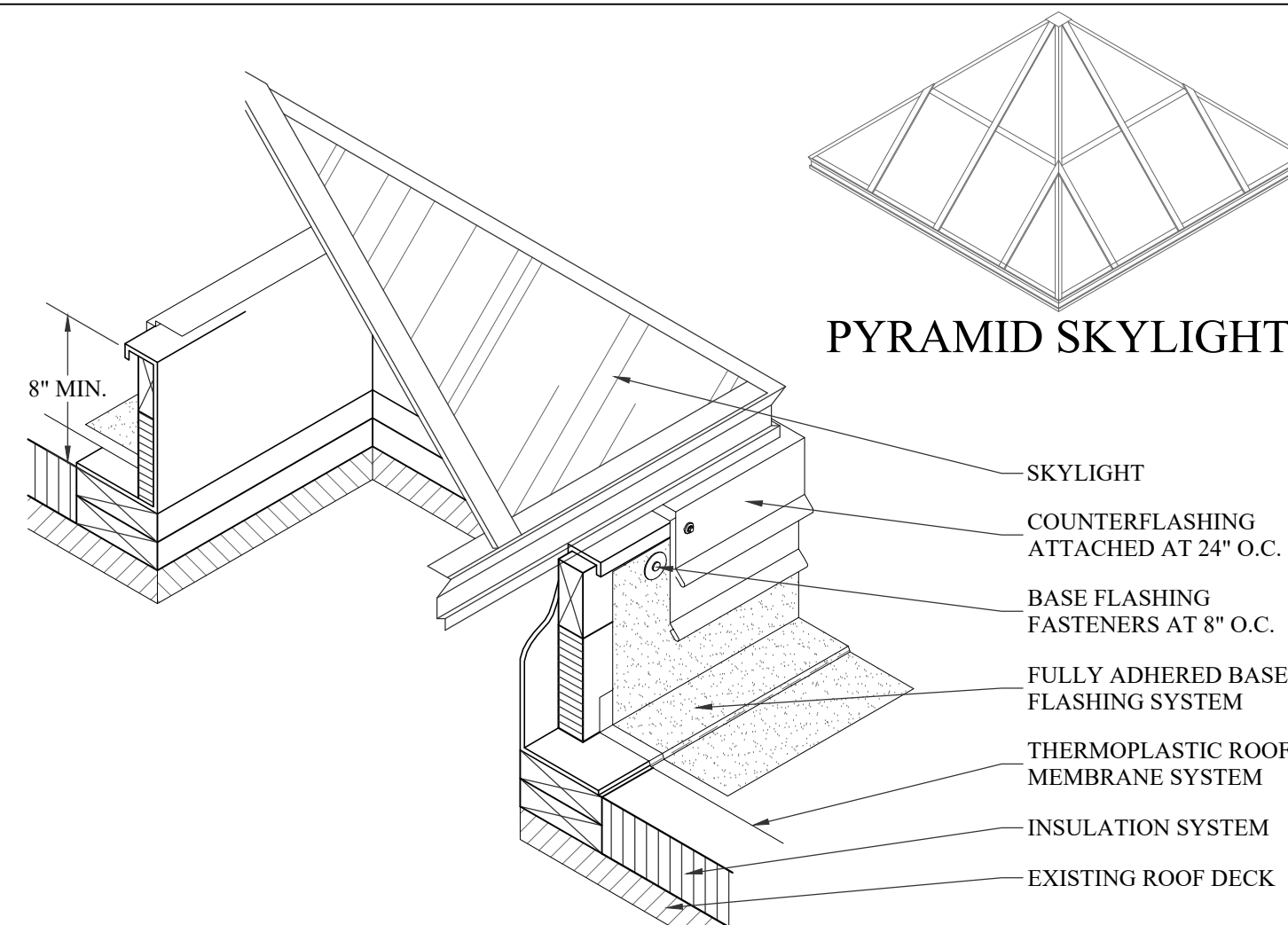
3 OVERFLOW DRAIN
D-1.1 N.T.S.



4 VENT THROUGH ROOF (VTR)
D-1.1 N.T.S.

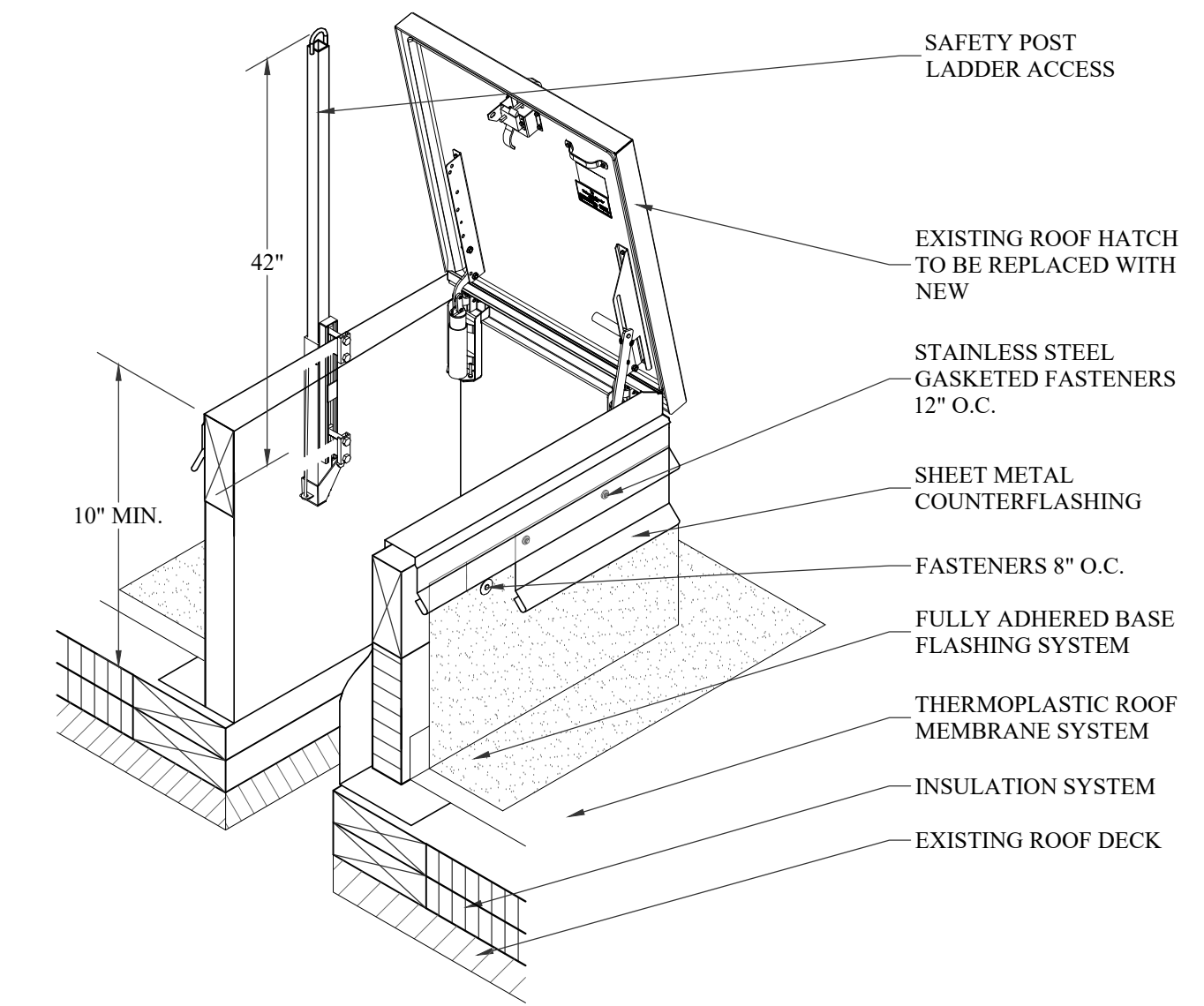


5 ROOF CURB
D-1.1 N.T.S.

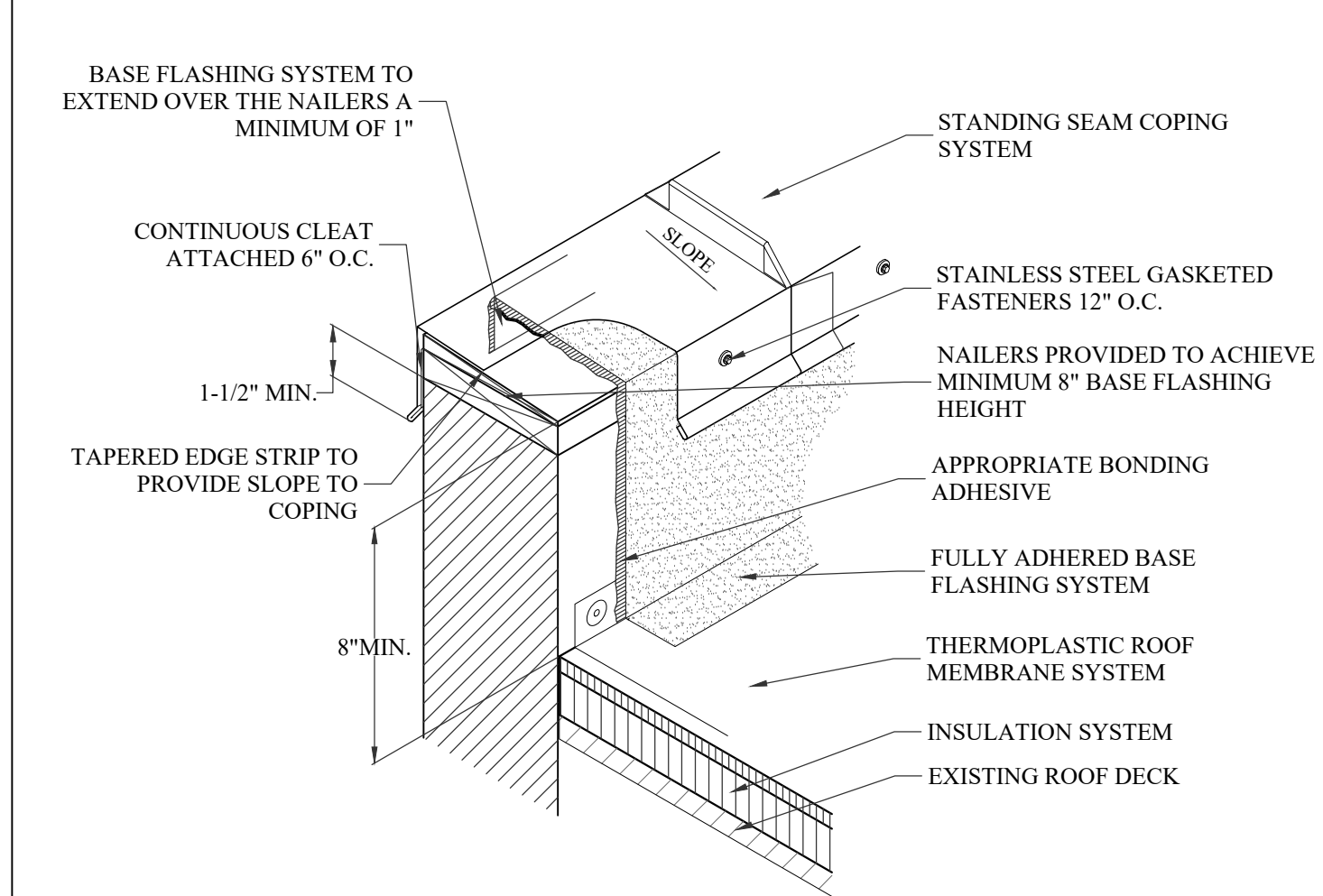


NOTES:
1. EXISTING SKYLIGHT TO BE REMOVED AND REINSTALLED TO ACCOMMODATE ROOF REPLACEMENT.
2. CURB TO BE RAISED TO ACHIEVE A MINIMUM BASE FLASHING HEIGHT OF 8".

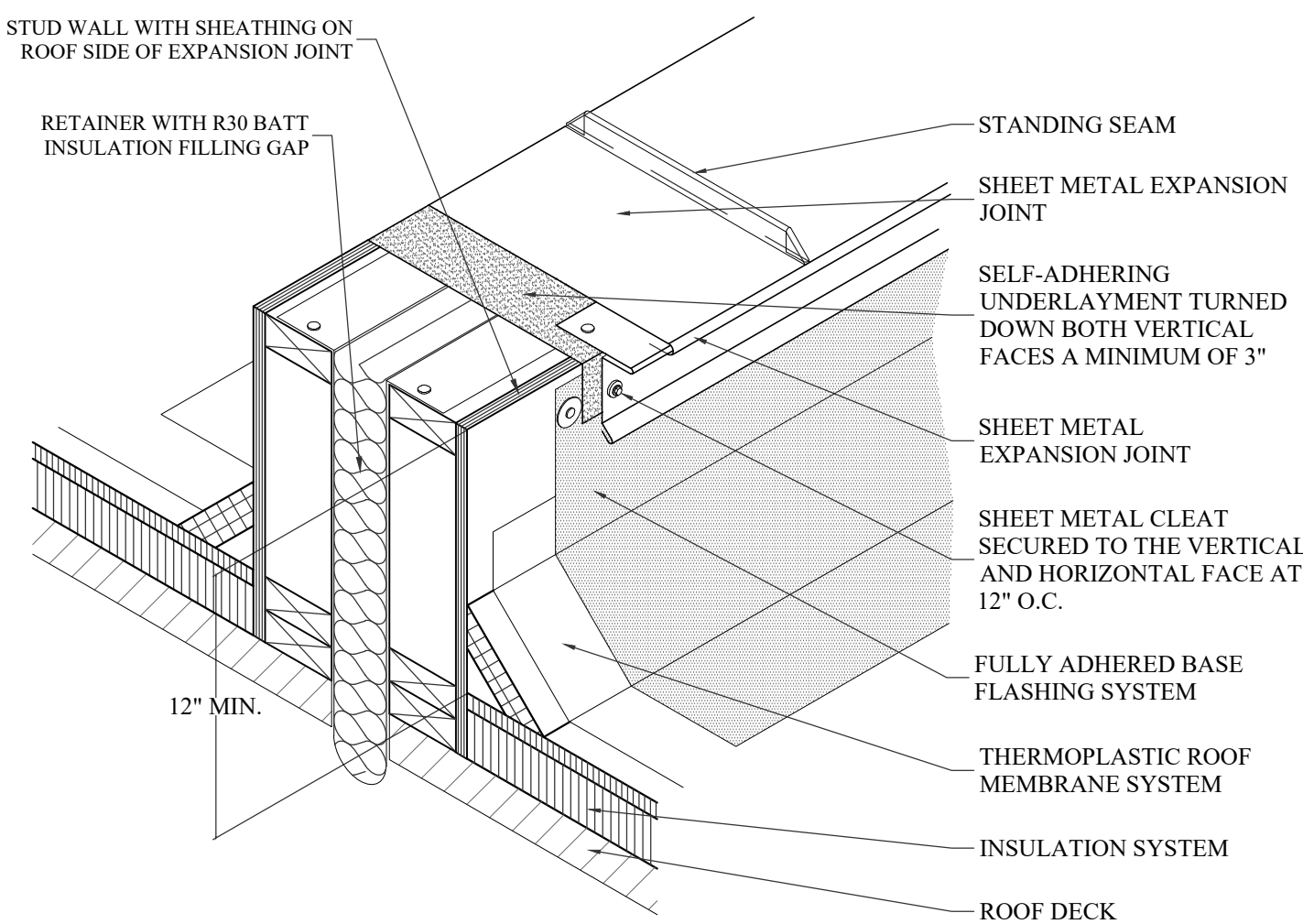
6 SKYLIGHT
D-1.1 N.T.S.



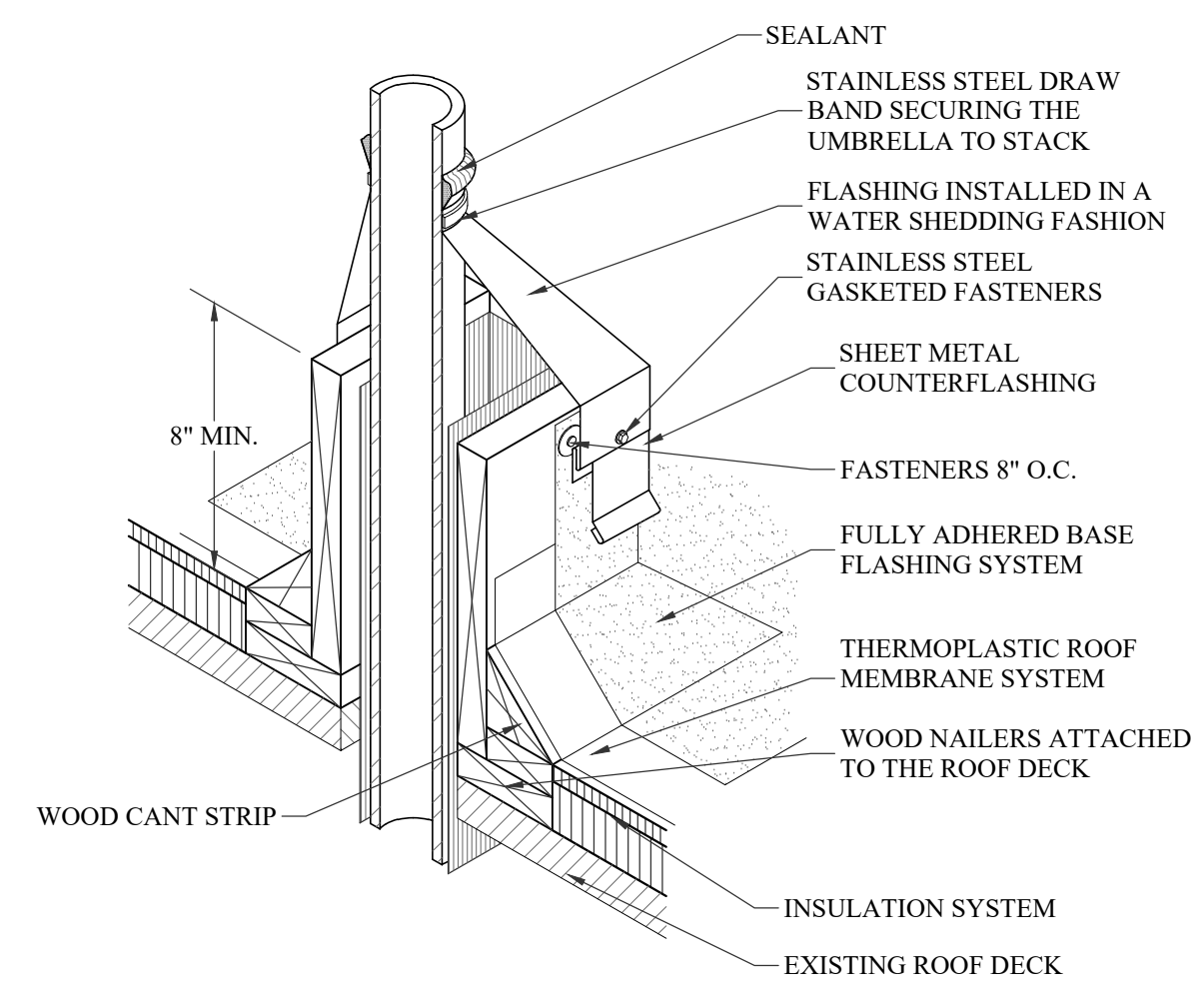
7 ROOF HATCH
D-1.1 N.T.S.



8 PARAPET WALL
D-1.1 N.T.S.

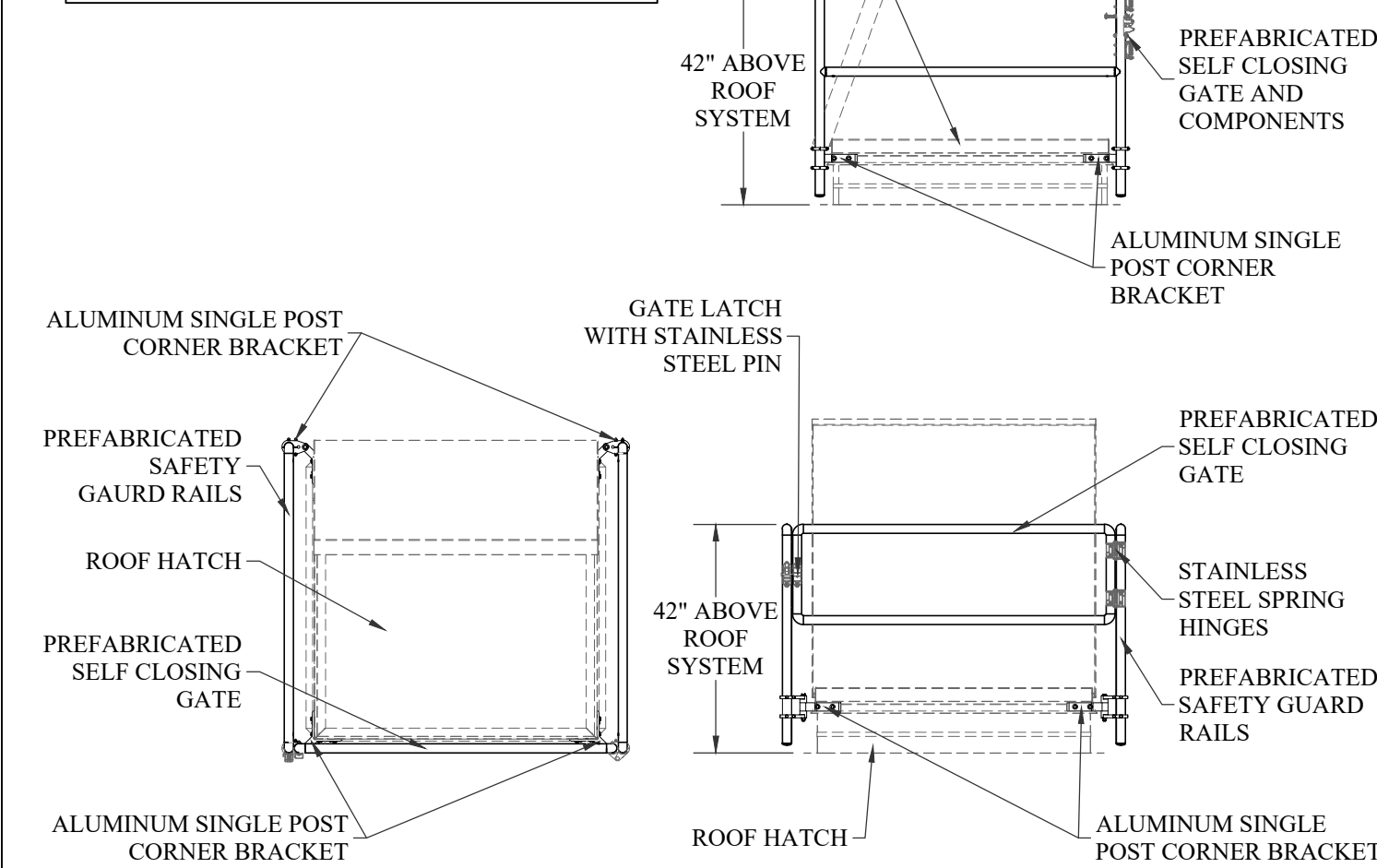


9 EXPANSION JOINT
D-1.1 N.T.S.

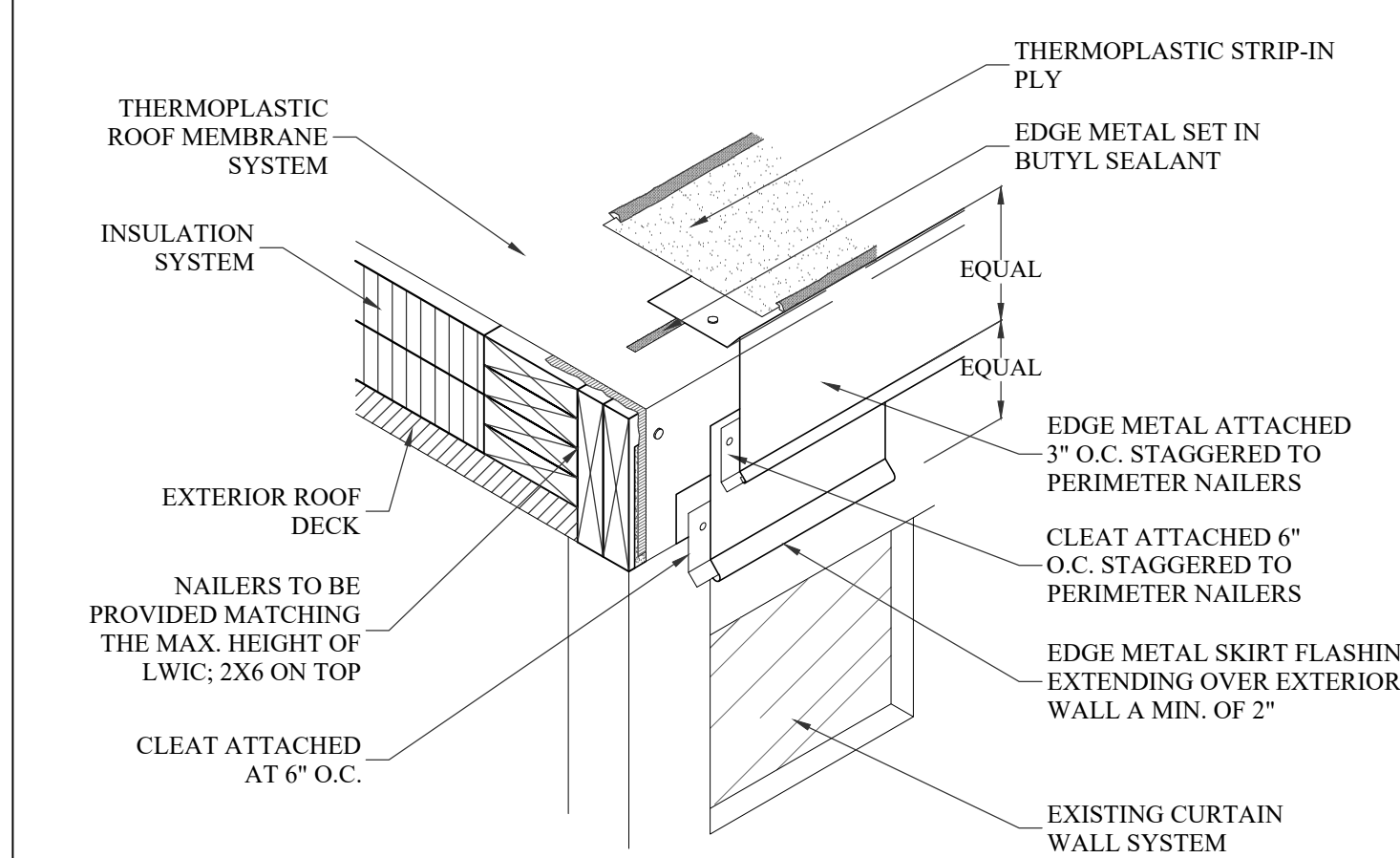


10 STACK WITH CURB
D-1.1 N.T.S.

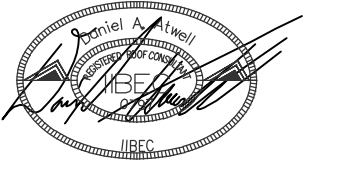
NOTE:
1. SAFETY GUARD RAIL SYSTEM TO MEET OR EXCEED REQUIREMENTS OF OSHA AND OSHA STRENGTH REQUIREMENTS.



11 SAFETY RAIL SYSTEM AT ROOF HATCH
D-1.1 N.T.S.



12 ROOF EDGE
D-1.1 N.T.S.



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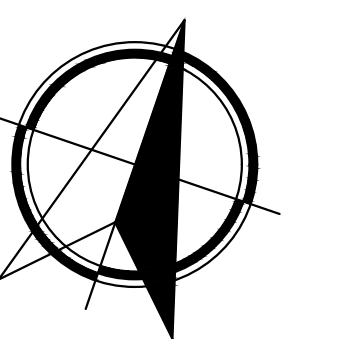
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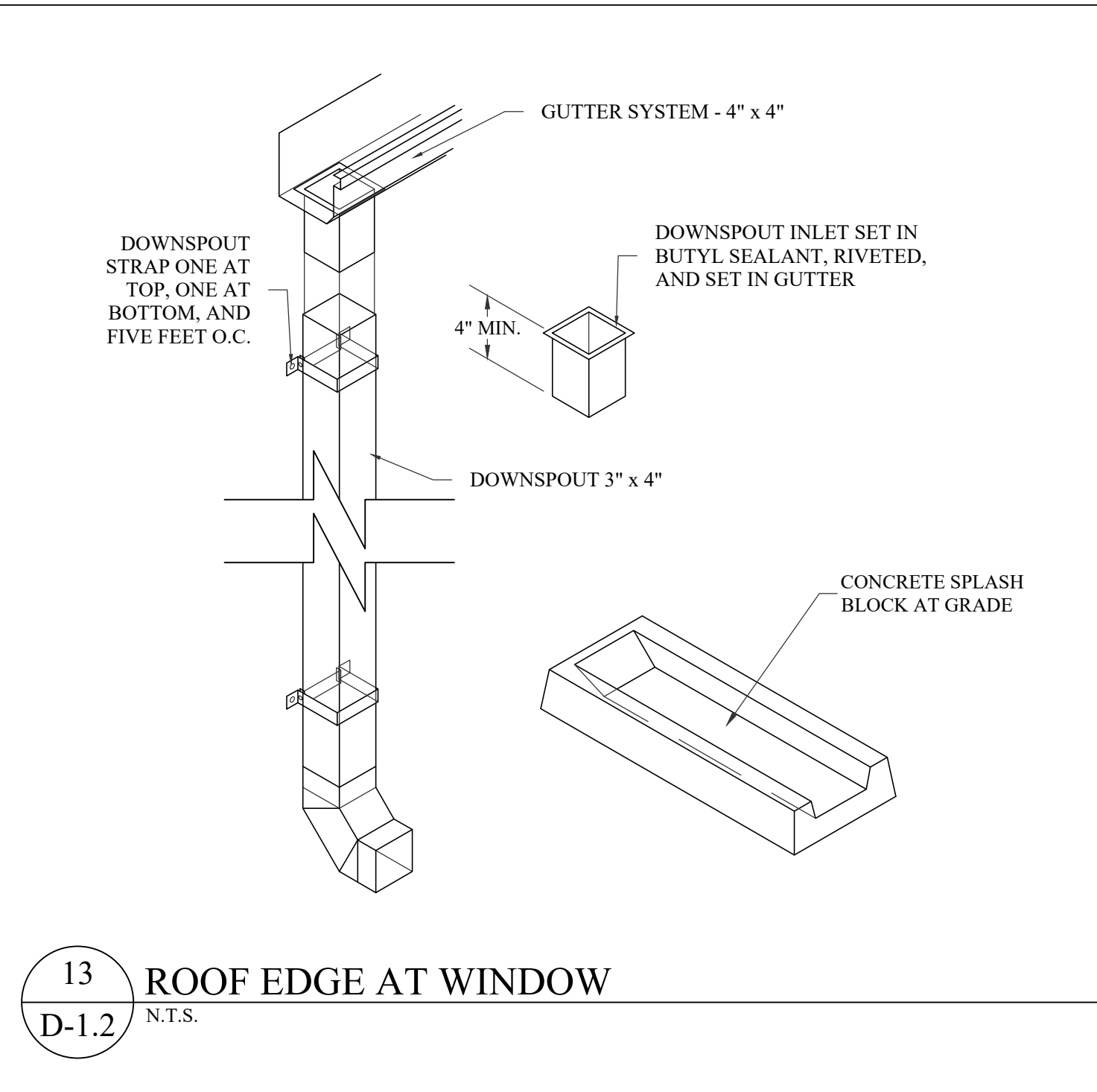
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CONSTRUCTION DOCUMENTS

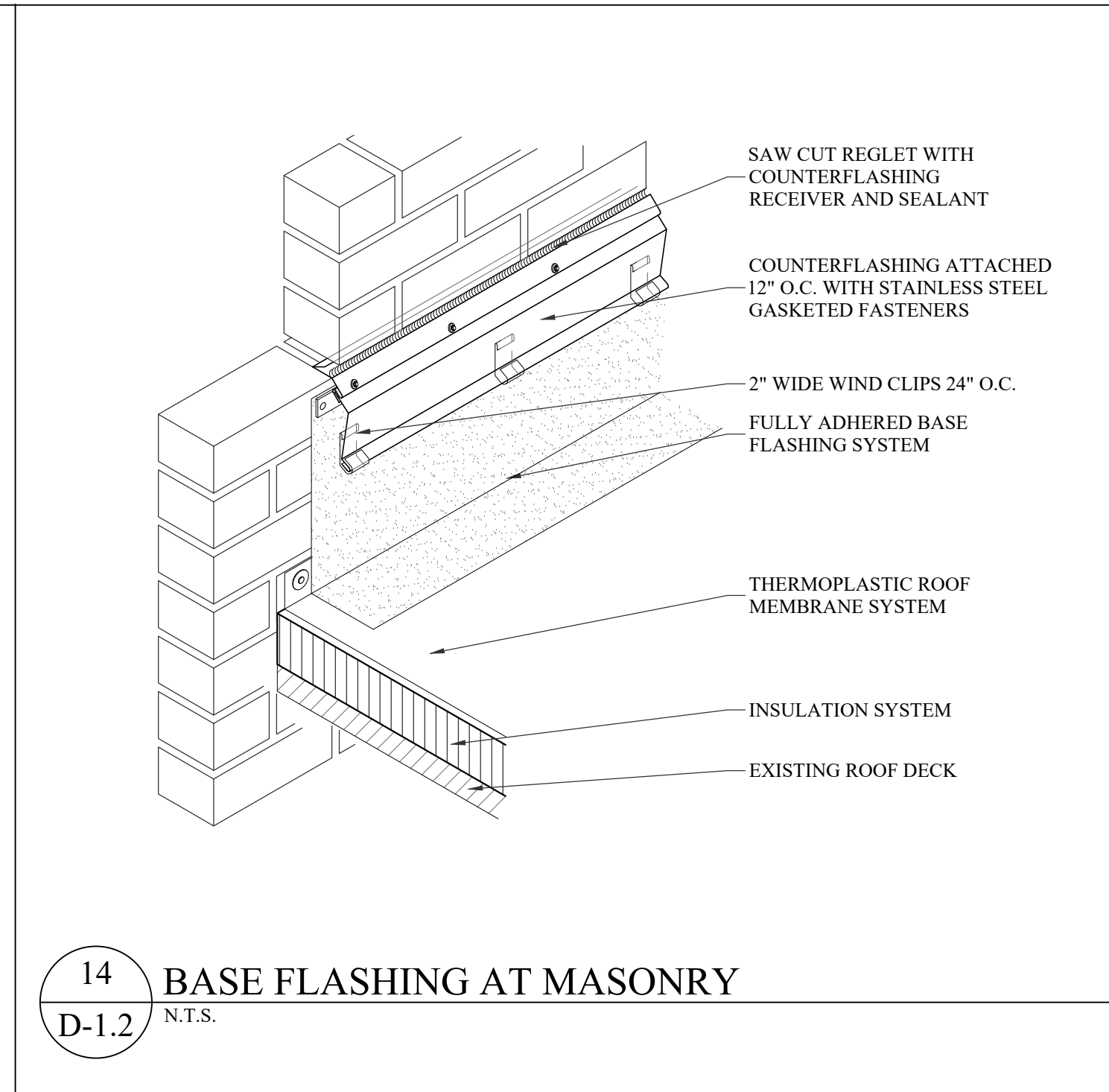
DATE: 12-04-2025

DETAILS

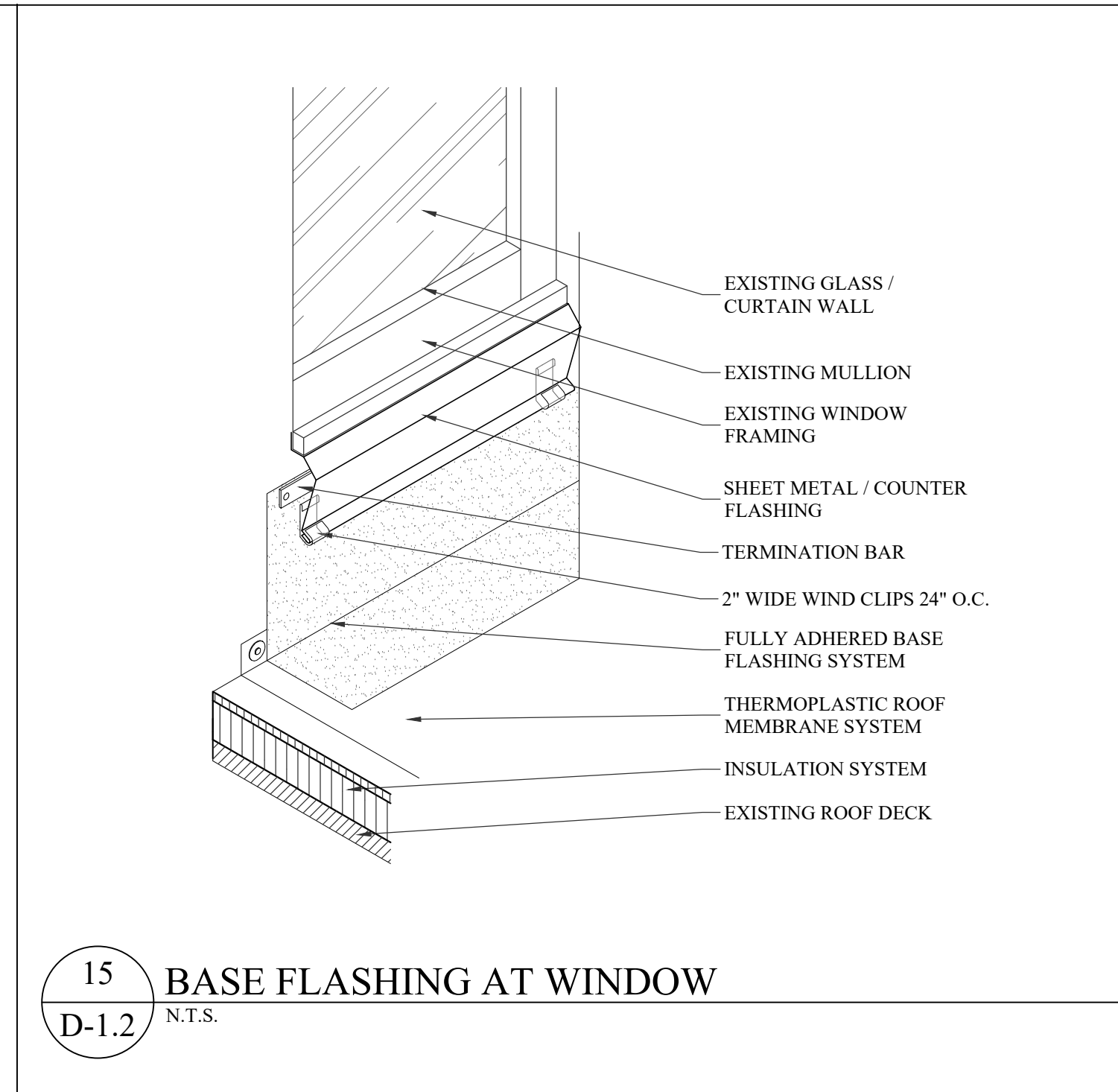
D-1.1



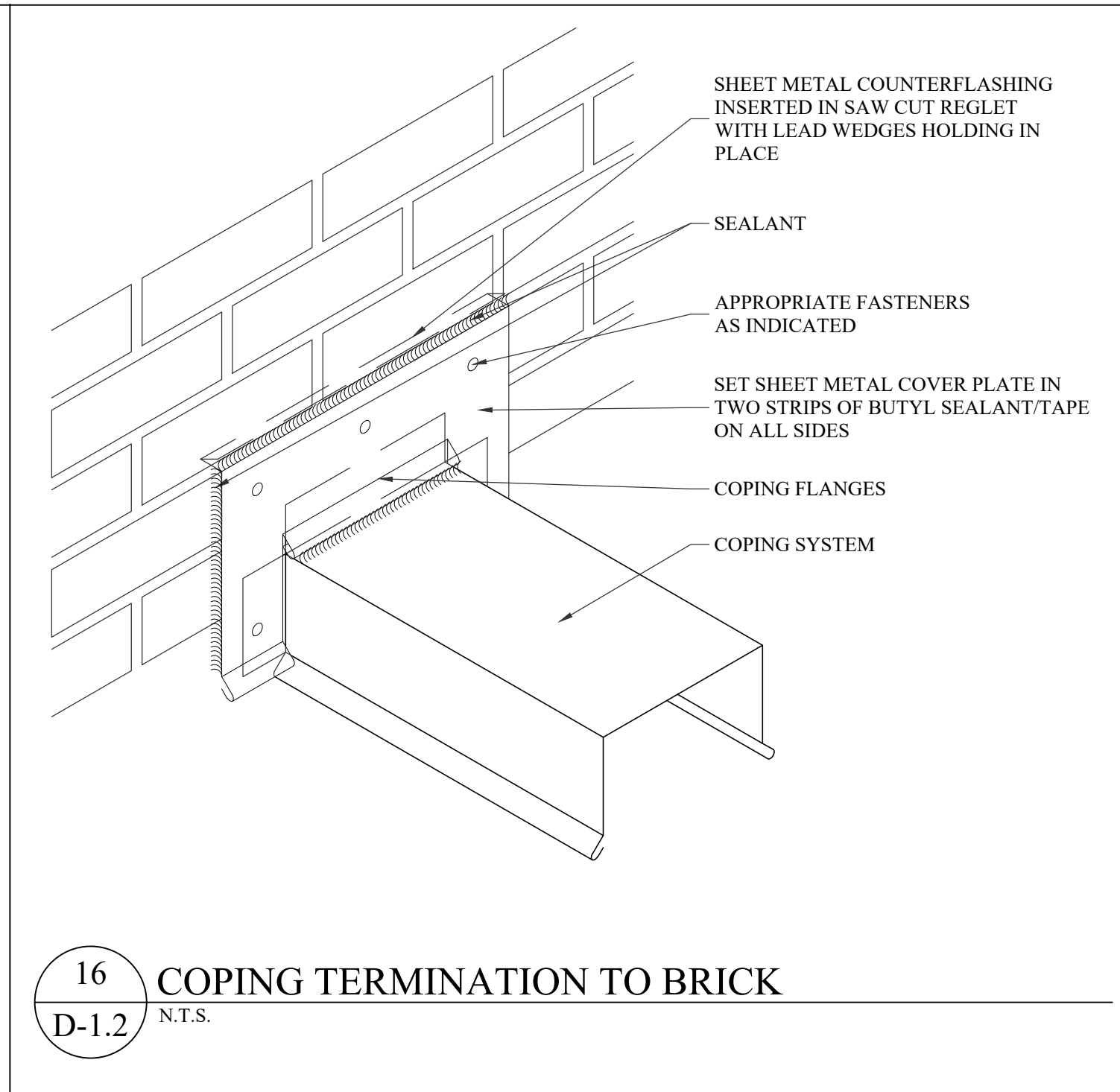
13 ROOF EDGE AT WINDOW
D-1.2 N.T.S.



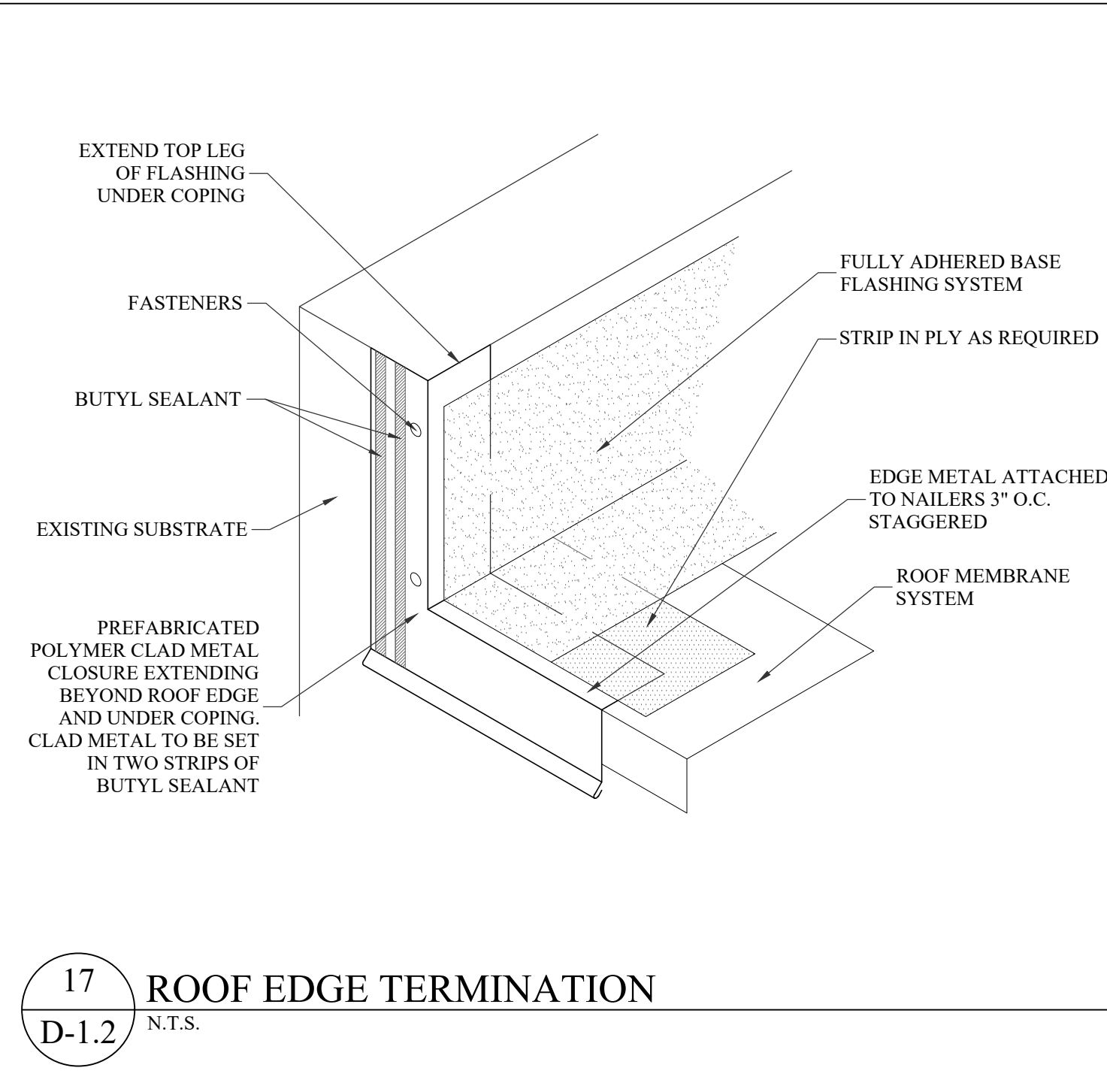
14 BASE FLASHING AT MASONRY
D-1.2 N.T.S.



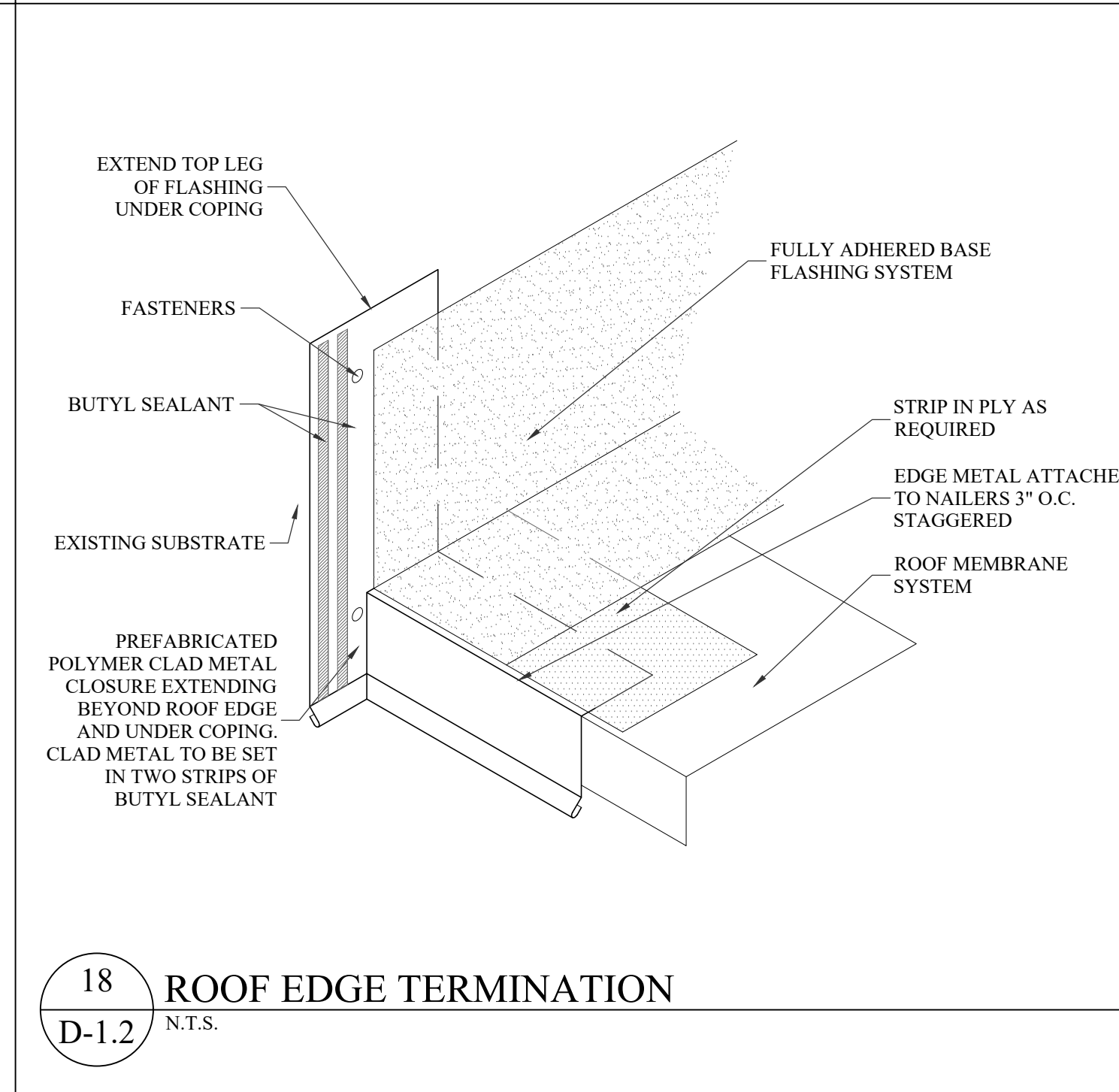
15 BASE FLASHING AT WINDOW
D-1.2 N.T.S.



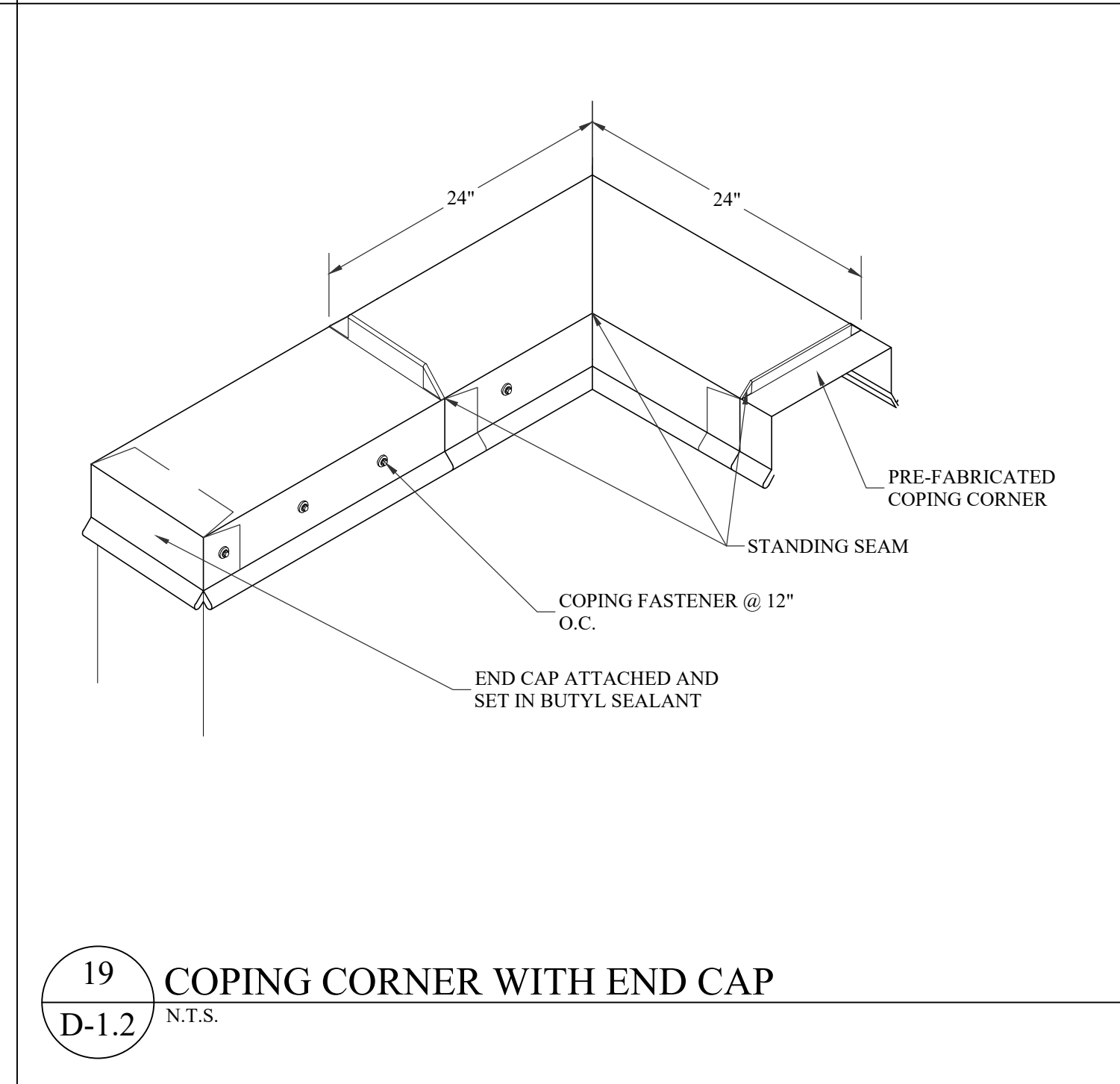
16 COPING TERMINATION TO BRICK
D-1.2 N.T.S.



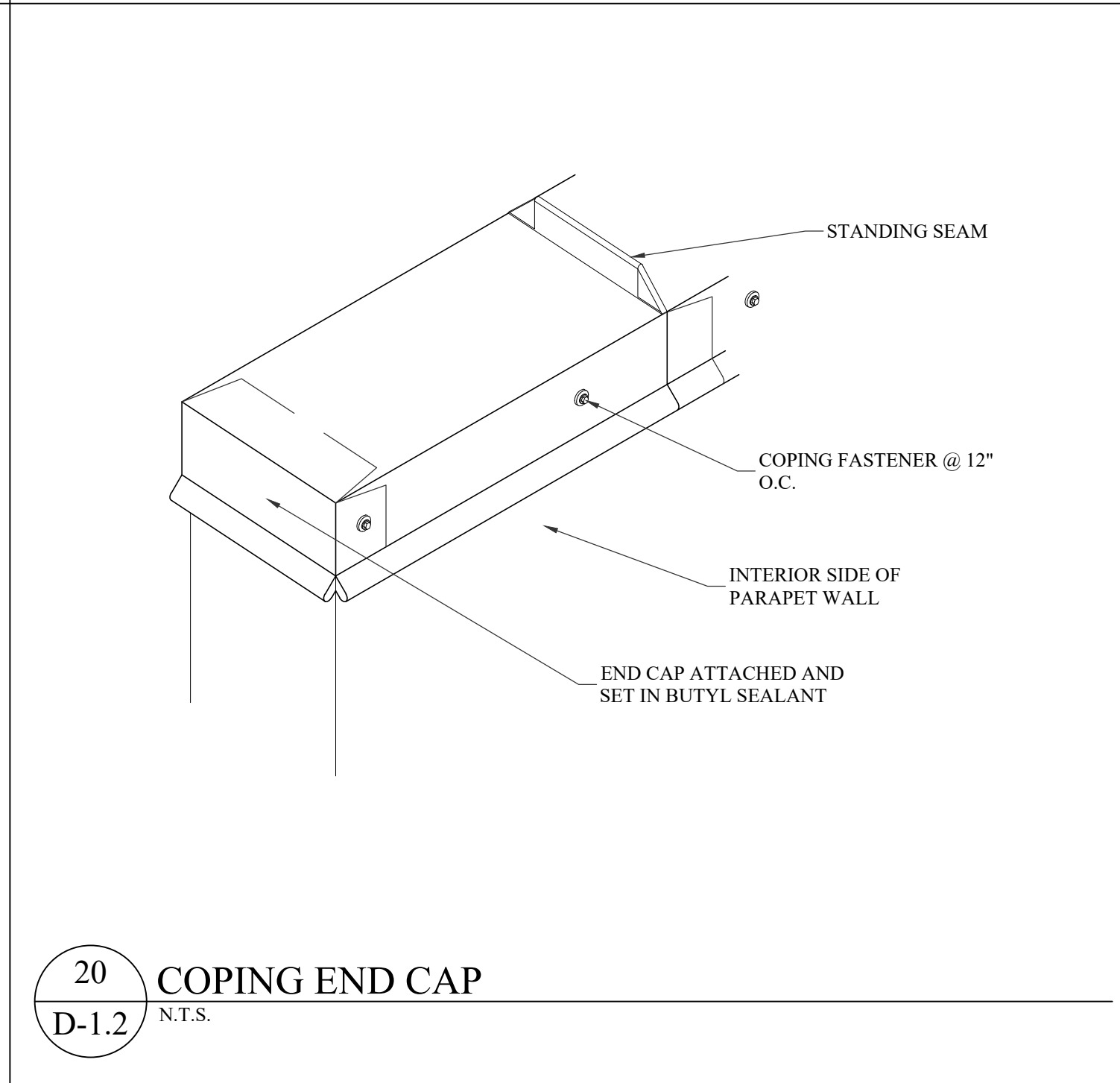
17 ROOF EDGE TERMINATION
D-1.2 N.T.S.



18 ROOF EDGE TERMINATION
D-1.2 N.T.S.



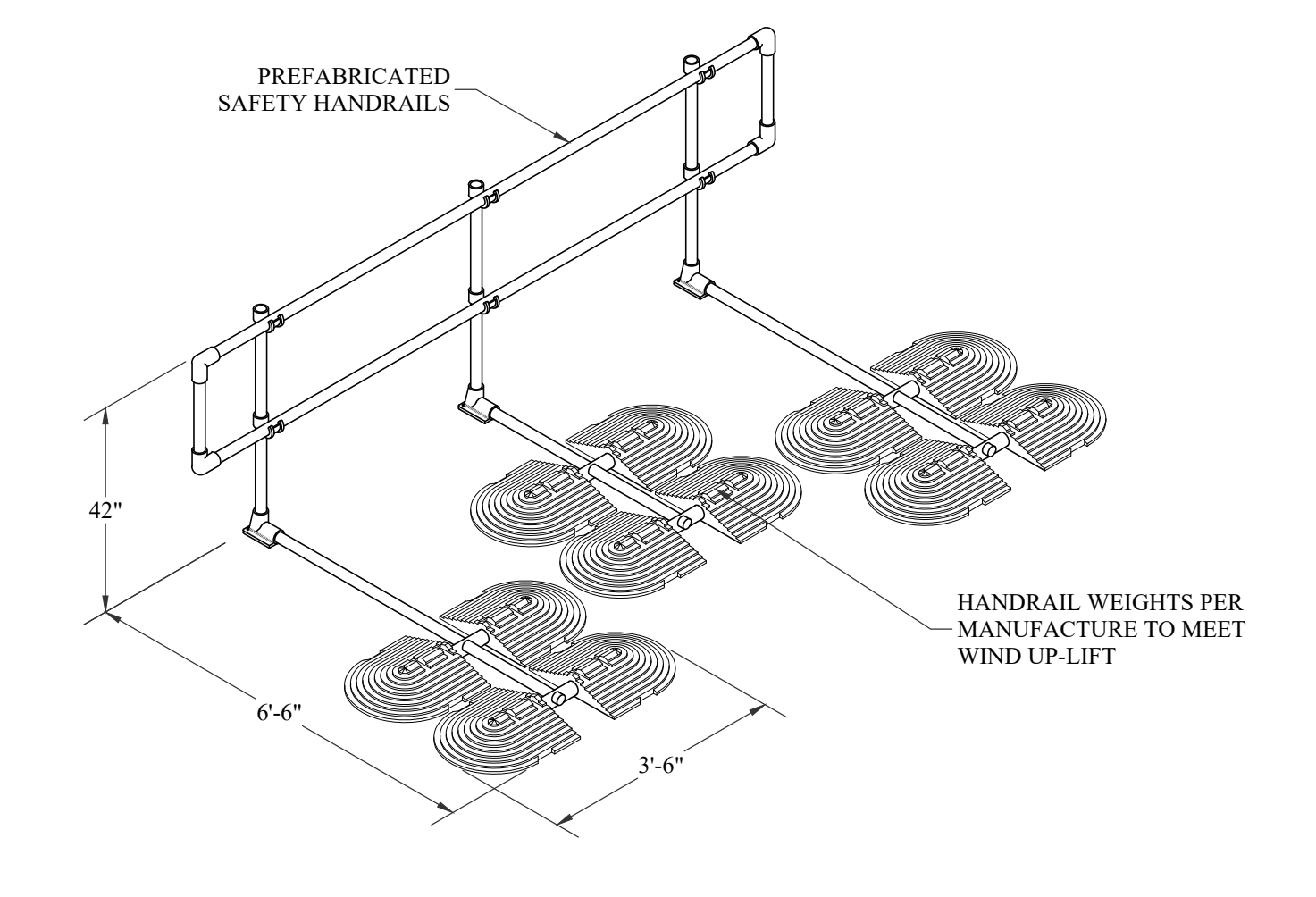
19 COPING CORNER WITH END CAP
D-1.2 N.T.S.



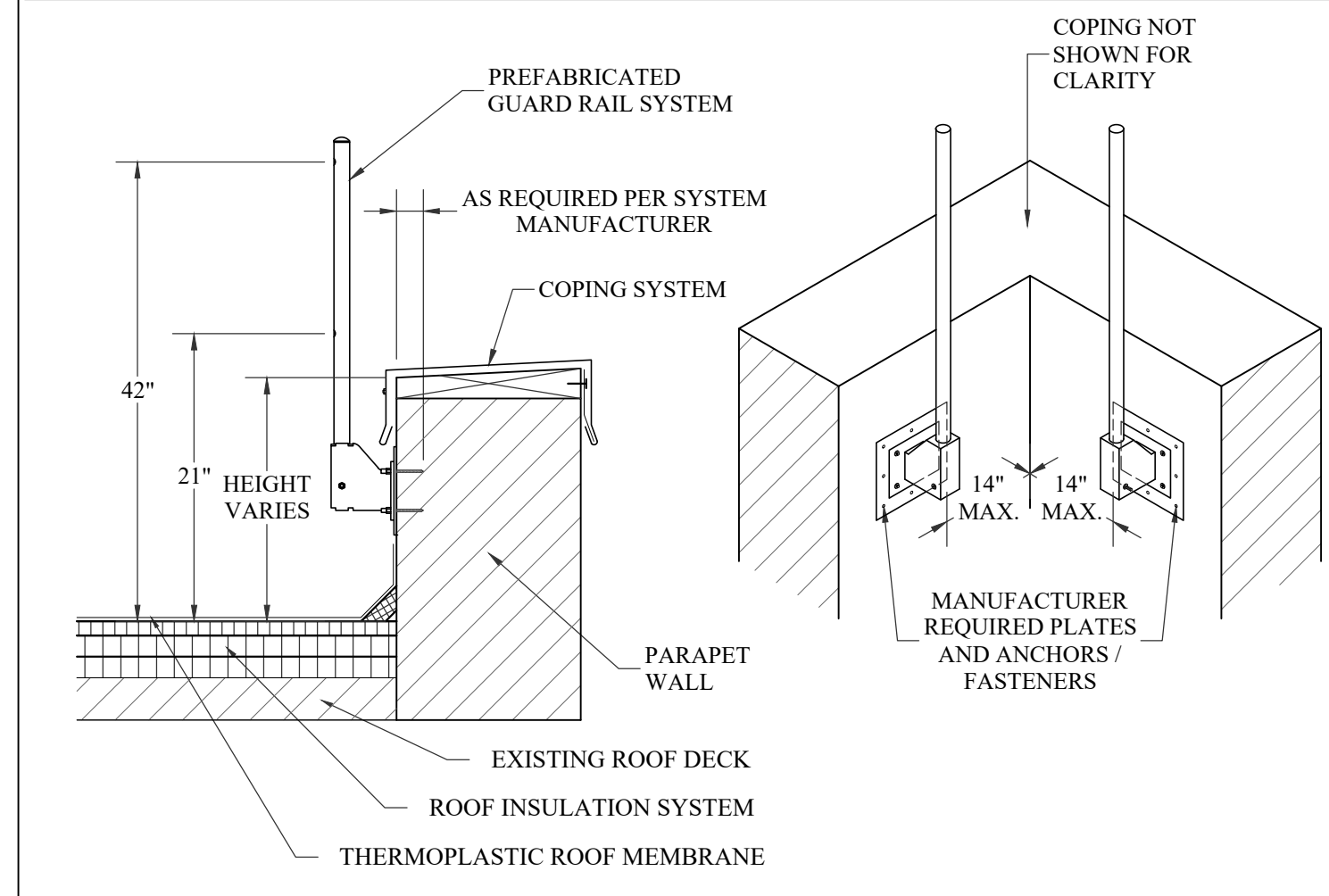
20 COPING END CAP
D-1.2 N.T.S.

NOTES:
 1. SAFETY GUARD RAIL SYSTEM TO BE PREFABRICATED CUSTOM DESIGN TO OSHA STANDARDS.
 2. HORIZONTAL RAILS NOT SHOWN FOR CLARITY. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 3. SAFETY GUARD RAIL SYSTEM TO MEET AND EXCEED OSHA STANDARDS; CFR 29 1910.501, 29 1910.502, 20.1910.23, CAL-OSHA 91620., CAL-OSHA 91621., CAL-OSHA 93209., CAL-OSHA 93210., ANSI/ASSE A1264.1-2007, USACE EM 385-1-1 (21.E.01 a-c)

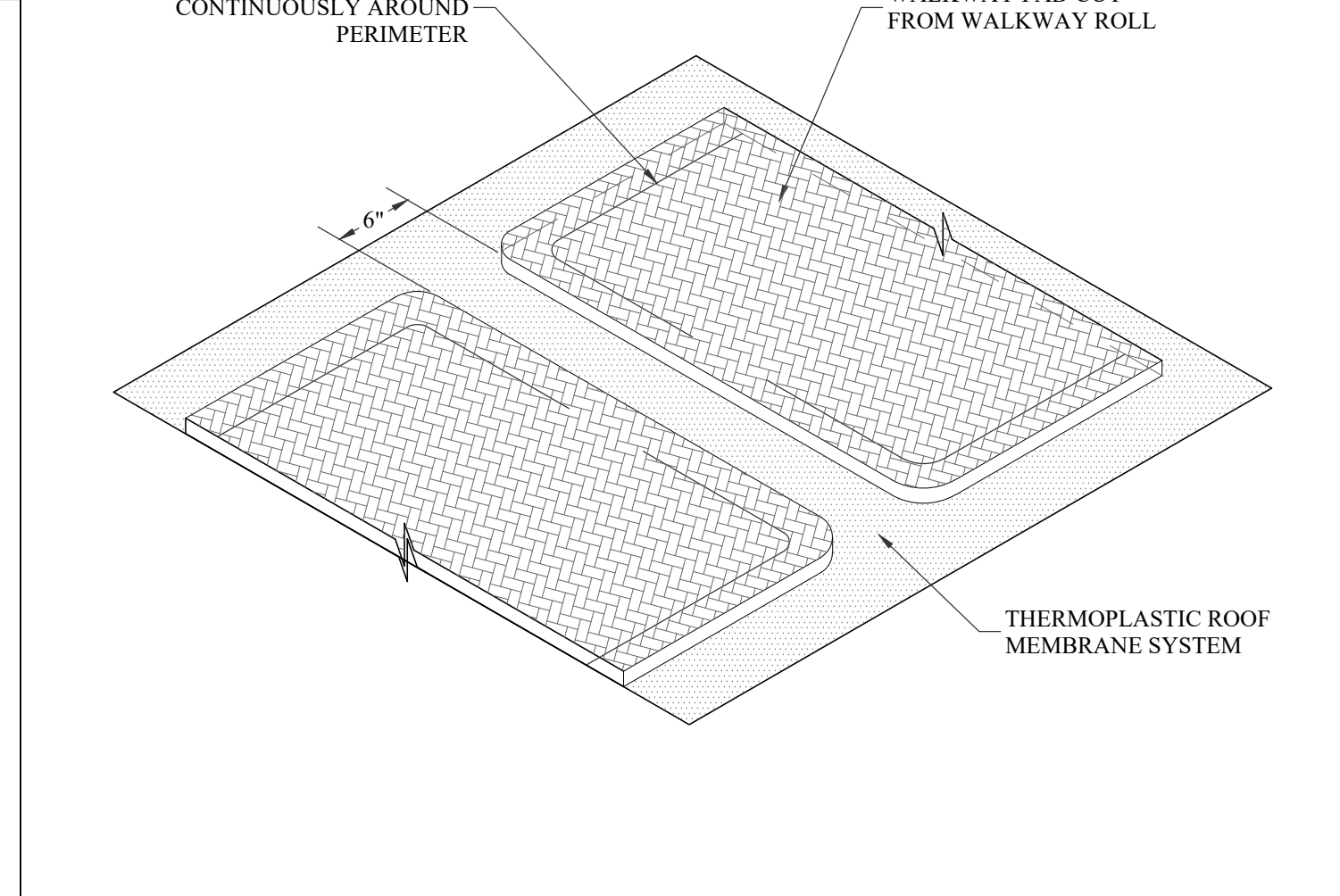
NOTES:
 1. SAFETY GUARD RAIL SYSTEM TO BE PREFABRICATED CUSTOM DESIGN TO OSHA STANDARDS.
 2. HORIZONTAL RAILS NOT SHOWN FOR CLARITY. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 3. SAFETY GUARD RAIL SYSTEM TO MEET AND EXCEED OSHA STANDARDS; CFR 29 1910.501, 29 1910.502, 20.1910.23, CAL-OSHA 91620., CAL-OSHA 91621., CAL-OSHA 93209., CAL-OSHA 93210., ANSI/ASSE A1264.1-2007, USACE EM 385-1-1 (21.E.01 a-c)



21 HANDRAIL
D-1.2 N.T.S.



22 WALL MOUNTED SAFETY GUARD RAIL SYSTEM
D-1.2 N.T.S.



23 WALKPAD
D-1.2 N.T.S.



24 DETAIL NOT USED
D-1.2 N.T.S.

DESIGNED: DANIEL ATWELL

SCC - HEALTH SCIENCES
BUILDING REROOF PROJECT

STATE PROJECT NUMBER: H59-6352-TM

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NORTH

PROJECT NUMBER: 2025-08

CONSTRUCTION DOCUMENTS

DATE: 12-04-2025

DETAILS

D-1.2