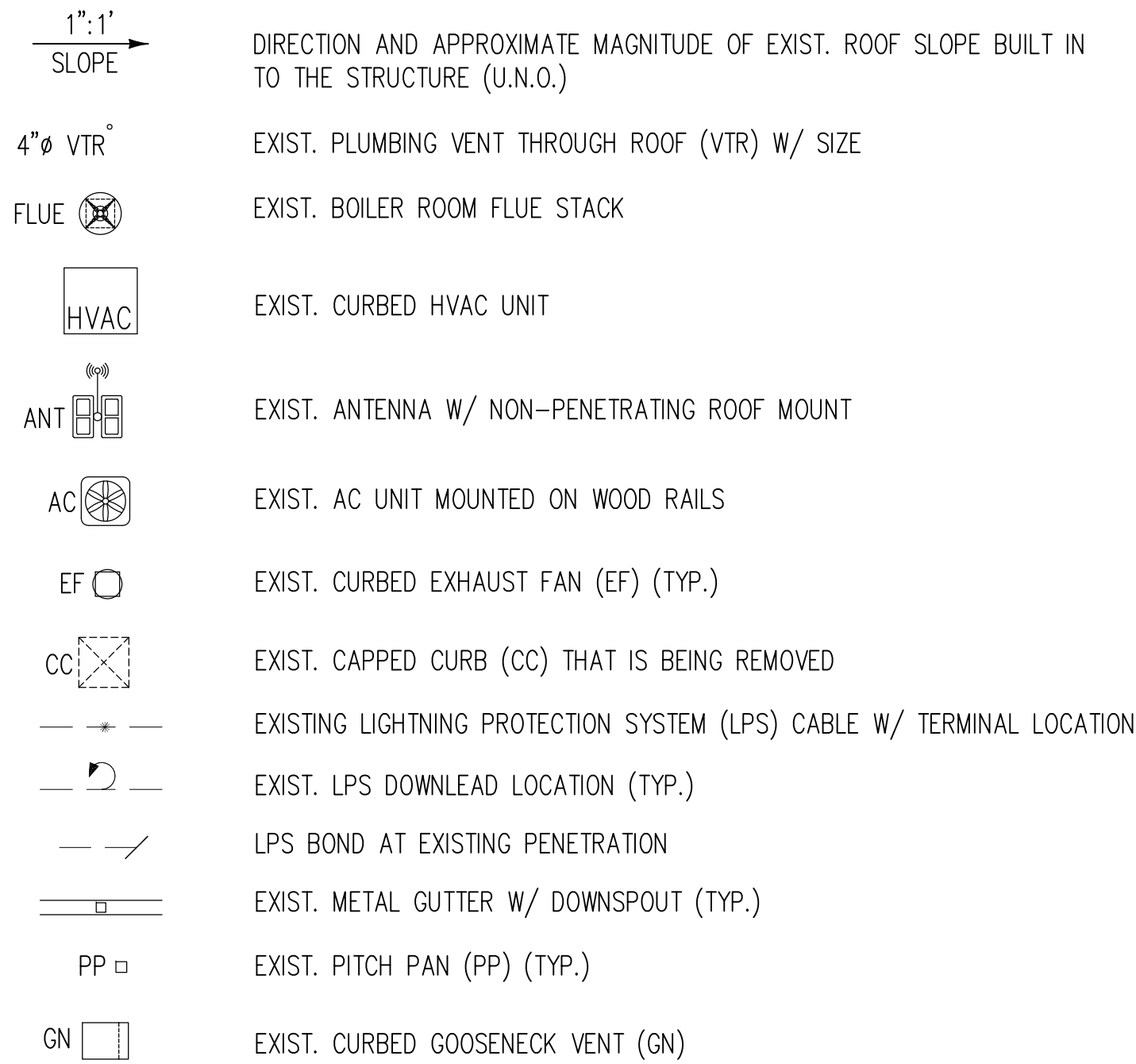
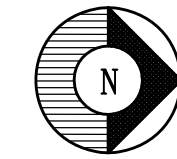
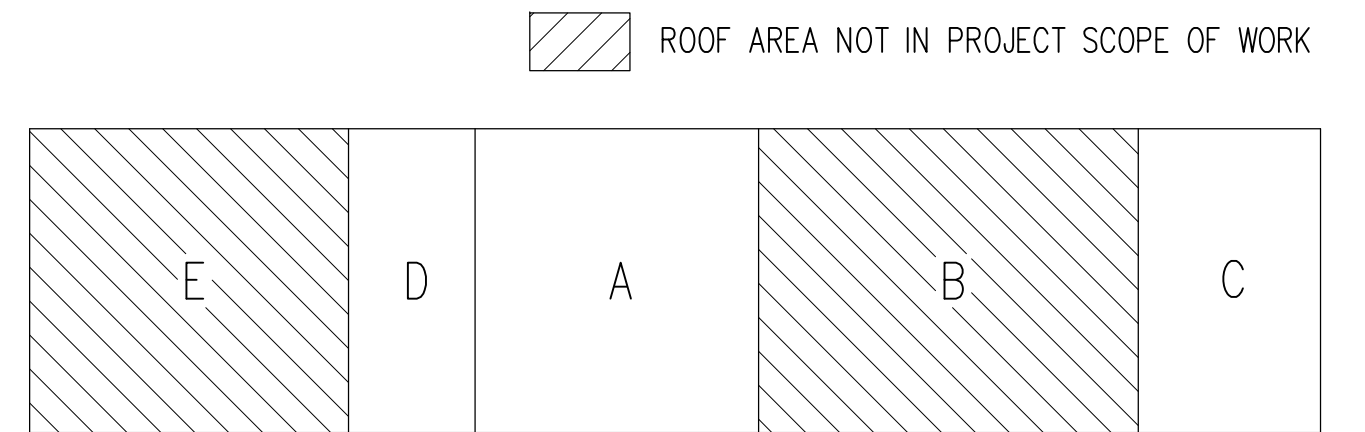
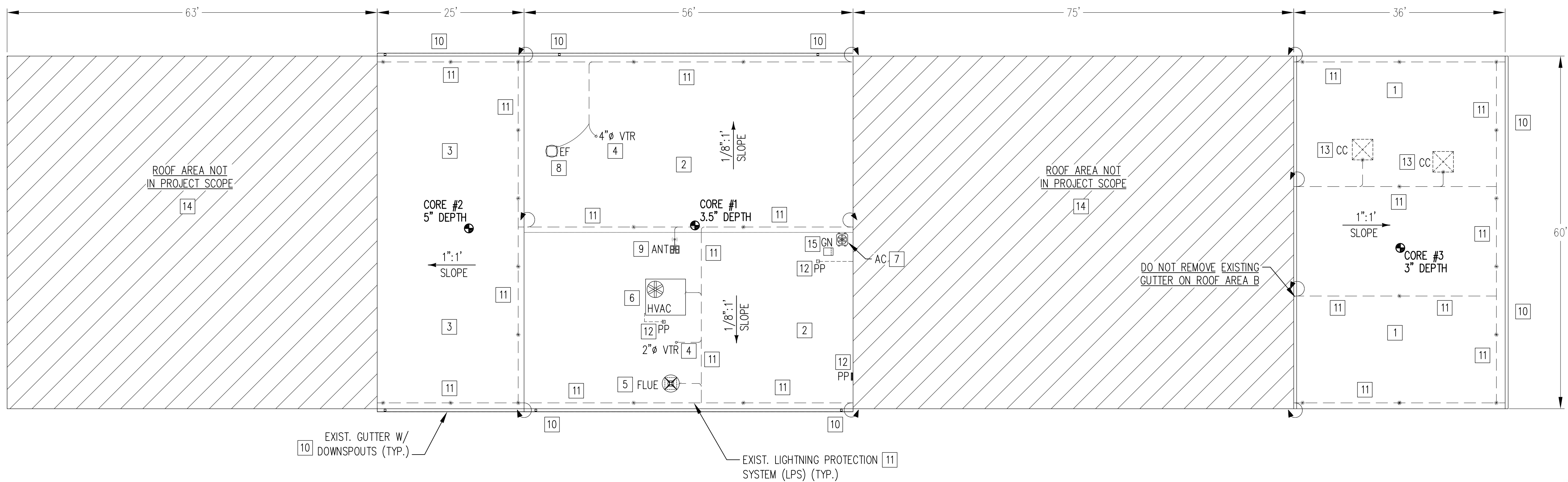


LEGEND



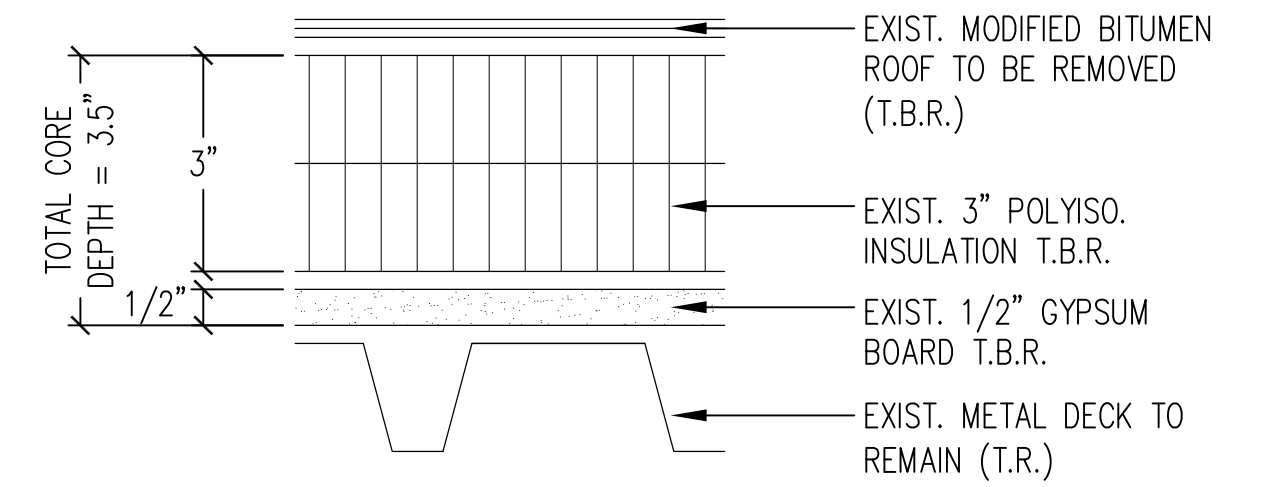
DEMOLITION NOTES (THIS SHEET ONLY)

- 1 ROOF AREA C: EXISTING EPDM ROOF MEMBRANE AND INSULATION TO BE REMOVED DOWN TO THE EXISTING METAL DECK. EXISTING PERIMETER METAL AND FLASHINGS TO BE REMOVED. REMOVE AND REPLACE ANY DAMAGED OR DETERIORATED METAL DECKING UP TO AN ESTIMATED 10% OF THE TOTAL ROOF AREA.
- 2 ROOF AREA A: THE EXISTING GRAVEL SURFACED BUILT-UP ROOF (BUR) SYSTEM AND INSULATION TO BE REMOVED DOWN TO THE EXISTING METAL DECK. EXISTING PERIMETER METAL AND FLASHINGS TO BE REMOVED. REMOVE AND REPLACE ANY DAMAGED OR DETERIORATED METAL DECKING UP TO AN ESTIMATED 10% OF THE TOTAL ROOF AREA.
- 3 ROOF AREA D: EXISTING ASBESTOS CONTAINING MATERIAL (ACM) PRESENT IN AN ESTIMATED 170 LINEAR FT. OF FLASHING SEALANT IS TO BE ABATED BY A CONTRACTOR LICENSED AND CERTIFIED TO PERFORM HAZARDOUS MATERIALS ABATEMENT. AFTER ABATEMENT HAS CONCLUDED, THE EXISTING GRAVEL SURFACED BUILT-UP ROOF (BUR) SYSTEM AND INSULATION ARE TO BE REMOVED DOWN TO THE EXISTING METAL DECK. EXISTING PERIMETER METAL AND FLASHINGS TO BE REMOVED. REMOVE AND REPLACE ANY DAMAGED OR DETERIORATED METAL DECKING UP TO AN ESTIMATED 10% OF THE TOTAL ROOF AREA.
- 4 EXISTING PLUMBING VENT THRU ROOF (VTR) LOCATION. EXISTING FLASHING BOOT TO BE REMOVED. EXISTING PIPE VENT TO REMAIN. EXTEND PIPE AS REQUIRED (TYP.).
- 5 EXISTING FLUE FOR BOILER TO REMAIN. EXISTING FLASHING TO BE REMOVED. FLUE STACK TO BE TEMPORARILY SUPPORTED UNTIL RE-INSTALLATION WITH NEW FLASHING DURING THE NEW WORK PHASE. EXTEND THE EXISTING FLUE PIPE AS REQUIRED TO MEET A MINIMUM FLASHING HEIGHT OF 8-INCHES ABOVE THE NEW ROOF BEING INSTALLED.
- 6 EXISTING CURBED HVAC UNIT TO REMAIN. TEMPORARILY SUPPORT UNIT AS REQUIRED TO REMOVE EXISTING CURB AND FLASHING.
- 7 EXISTING AIR CONDITIONING UNIT (AC) TO REMAIN. TEMPORARILY SUPPORT AS REQUIRED TO PERFORM DEMOLITION WORK.
- 8 EXISTING CURBED EXHAUST FAN (EF) TO BE REMOVED AND TEMPORARILY STORED UNTIL SUBSEQUENT RE-INSTALLATION DURING THE NEW WORK PHASE. EXISTING CURB AND FLASHING TO BE REMOVED (TYP.).
- 9 EXISTING ANTENNA AT NON-PENETRATING ROOF MOUNT WITH CMU BLOCKS TO BE REMOVED AND TEMPORARILY STORED FOR SUBSEQUENT RE-INSTALLATION DURING THE NEW WORK PHASE. EXISTING CMU BLOCKS AND NON-PENETRATING ROOF MOUNT TO BE REMOVED.
- 10 EXISTING GUTTER, DOWNSPOUTS, AND SPLASHBLOCKS TO BE REMOVED.
- 11 EXISTING LIGHTNING PROTECTION SYSTEM (LPS) COMPONENTS ARE TO BE DISCONNECTED FROM EXISTING LPS SYSTEM AND THEN TEMPORARILY STORED FOR SUBSEQUENT RE-INSTALLATION DURING THE NEW WORK PHASE. CONTRACTOR TO VERIFY WITH QUALIFIED LPS DESIGNER OR INSPECTOR PRIOR TO DISPOSING OF EXISTING LPS TERMINALS THAT ARE CURRENTLY BONDING ROOFTOP EQUIPMENT THAT IS BEING REMOVED.
- 12 EXISTING PENETRATION POCKET (PP) TO BE REMOVED. ANY CONDUITS OR CONDENSATE DRAINAGE LINES ARE TO BE TEMPORARILY SUPPORTED UNTIL THE INSTALLATION OF NEW PENETRATION POCKET DURING THE NEW WORK PHASE.
- 13 EXISTING CAPPED CURB (CC) TO BE REMOVED. EXISTING METAL DECK TO BE PATCHED, AS REQUIRED, TO MATCH EXISTING.
- 14 NO WORK TO BE DONE AT EXISTING ROOF AREA (TYP.).
- 15 EXISTING CURBED GOOSENECK VENT (GN) TO BE REMOVED AND TEMPORARILY STORED UNTIL SUBSEQUENT RE-INSTALLATION DURING THE NEW WORK PHASE. EXISTING CURB AND FLASHING TO BE REMOVED (TYP.).



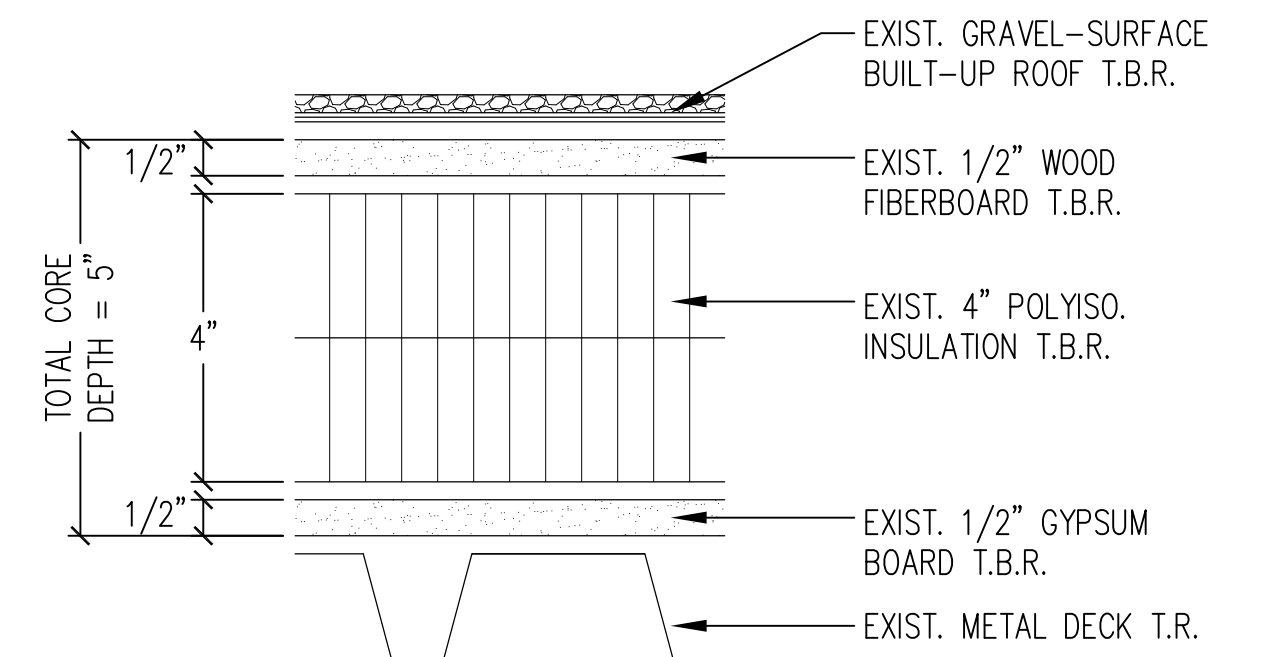
SHAW AFB, BLDG. 1816 - ROOF KEY PLAN

SCALE: NONE



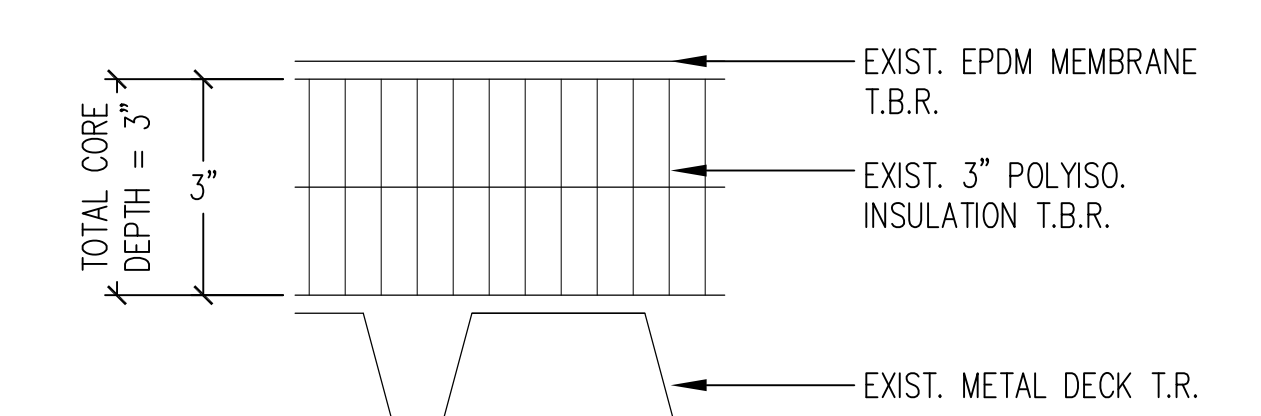
CORE #1 DATA: ROOF AREA A

SCALE: NONE



CORE #2 DATA: ROOF AREA D

SCALE: NONE

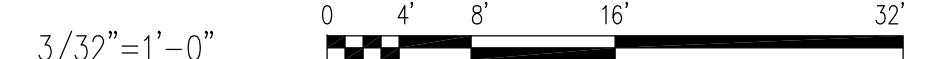


CORE #3 DATA: ROOF AREA C

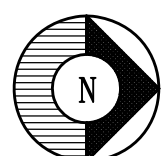
SCALE: NONE

AS-BUILT

GRAPHIC SCALE:



1	05/01/25	AS-BUILT	CB	MEC
REV	DATE	DESCRIPTION	BY	APPROVED
DEPARTMENT OF THE AIR FORCE TACTICAL COMMAND				
SHAW A.F.B. S.C. CIVIL ENGINEERING OFFICE				
VLSB 22-0017 REPAIR ROOF B1816				
DEMOLITION ROOF PLAN				
CHECKED BY MEC		DRAWN BY CBELL		DATE 07 FEB 25
PROJECT NO VSLB 22-0017		DRAWING NO AD101		SCALE 3/32"=1'-0"
				SHEET 1 OF 5



DEMOLITION ROOF PLAN - SHAW AFB, BLDG 1816

SCALE: $3/32''=1'-0''$

LEGEND

- 1'

1
- FIELD OF ROOF ZONE
- 2'

2
- PERIMETER ROOF ZONE
- 3'

3
- CORNER ROOF ZONE

15'-0" ±

APPROXIMATE DISTANCE FROM GROUND TO ROOF EDGE

WIND UPLIFT PARAMETERS:

ASCE VERSION:ASCE 7-16

BASIC WIND SPEED:127 MPH

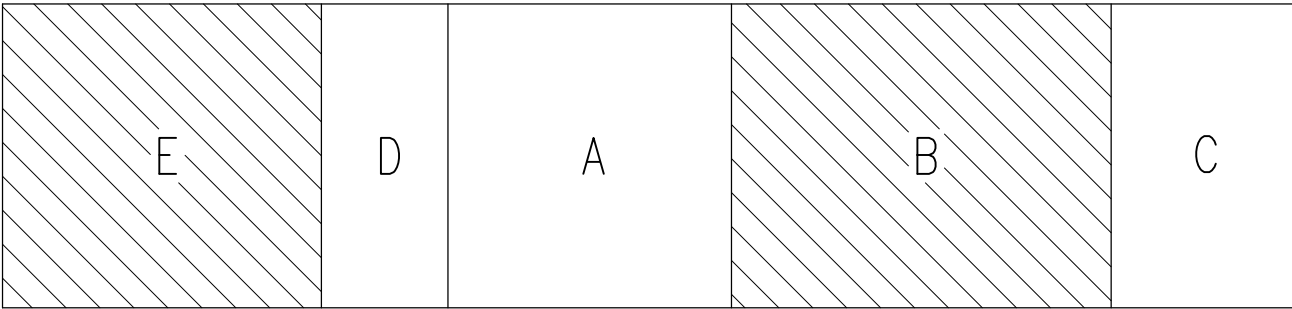
BUILDING CONFIGURATION:ENCLOSED

EXPOSURE CATEGORY:C

RISK CATEGORY:III

NOTE: THESE VALUES ARE UNFACTORED UP-LIFT PRESSURES AND DO NOT INCLUDE A LOAD-REDUCTION FACTOR OR FACTOR OF SAFETY.

ROOF AREA NOT IN PROJECT SCOPE OF WORK



N

SHAW AFB, BLDG. 1816 – ROOF KEY PLAN

SCALE: NONE

ROOF AREA D DESIGN

WIND UP-LIFT PRESSURES

ZONE 1=-38.66 PSF

ZONE 2=-44.70 PSF

ZONE 2'=-53.76 PSF

ZONE 3=-59.80 PSF

ZONE 3'=-83.86 PSF

ROOF AREA A DESIGN

WIND UP-LIFT PRESSURES

ZONE 1'=-32.18 PSF

ZONE 1=-56.01 PSF

ZONE 2=-73.89 PSF

ZONE 3=-100.70 PSF

ROOF AREA C DESIGN

WIND UP-LIFT PRESSURES

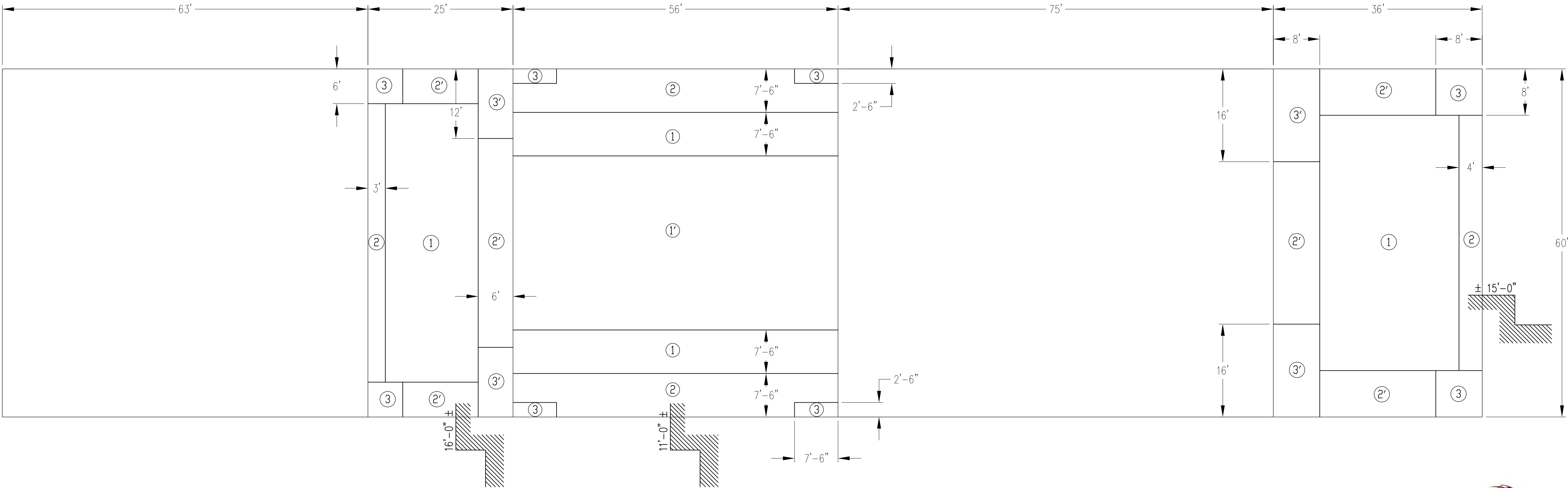
ZONE 1=-38.14 PSF

ZONE 2=-44.09 PSF

ZONE 2'=-53.03 PSF

ZONE 3=-58.99 PSF

ZONE 3'=-82.82 PSF



AS-BUILT

GRAPHIC SCALE:

3/32"=1'-0"

0

4'

8'

16'

32'

1	05/01/25	AS-BUILT	CB	MEC
REV	DATE	DESCRIPTION	BY	APPROVED
DEPARTMENT OF THE AIR FORCE TACTICAL COMMAND				
SHAW A.F.B. S.C. CIVIL ENGINEERING OFFICE				
VLSB 22-0017 REPAIR ROOF B1816				
WIND ZONE ROOF PLAN				
CHECKED BY	MEC	DRAWN BY	CBELL	DATE
PROJECT NO	VSLB 22-0017	DRAWING NO	A-101	SCALE
			07 FEB 25	3/32"=1'-0"
			SHEET	2 OF 5

N

WIND ZONE ROOF PLAN – SHAW AFB, BLDG 1816

SCALE: 3/32"=1'-0"



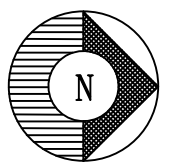
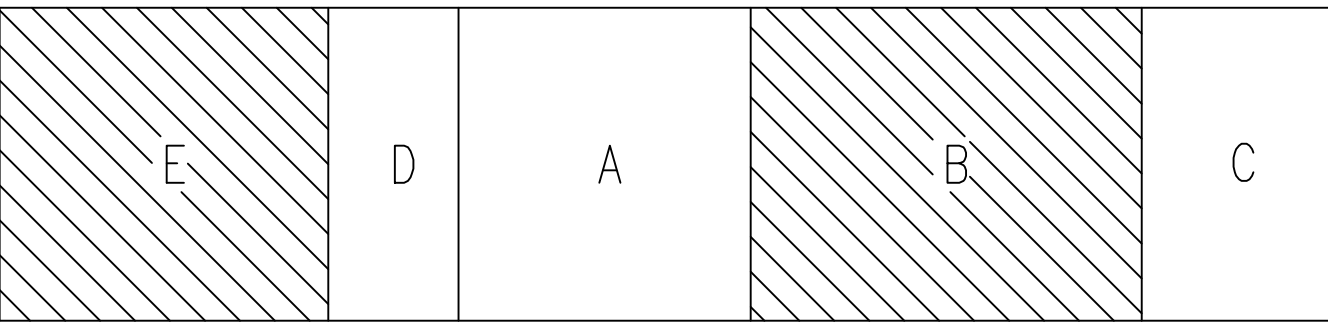
LEGEND

- 1"=1'
SLOPE →
- VTR°
- FLUE
- HVAC
- ANT
- AC
- EF
- RE-INSTALLED LIGHTNING PROTECTION SYSTEM (LPS)
- EXIST. LPS DOWNLEAD LOCATION (TYP.)
- NEW LPS BOND AT RE-FLASHED PENETRATION
- NEW METAL GUTTER W/ DOWNSPOUT(S) AND SPLASHBLOCKS
- PP
- GN
- NEW ARCHITECTURAL COMPATIBLE AWNING AT PERSONNEL DOOR LOCATION (TYP.)

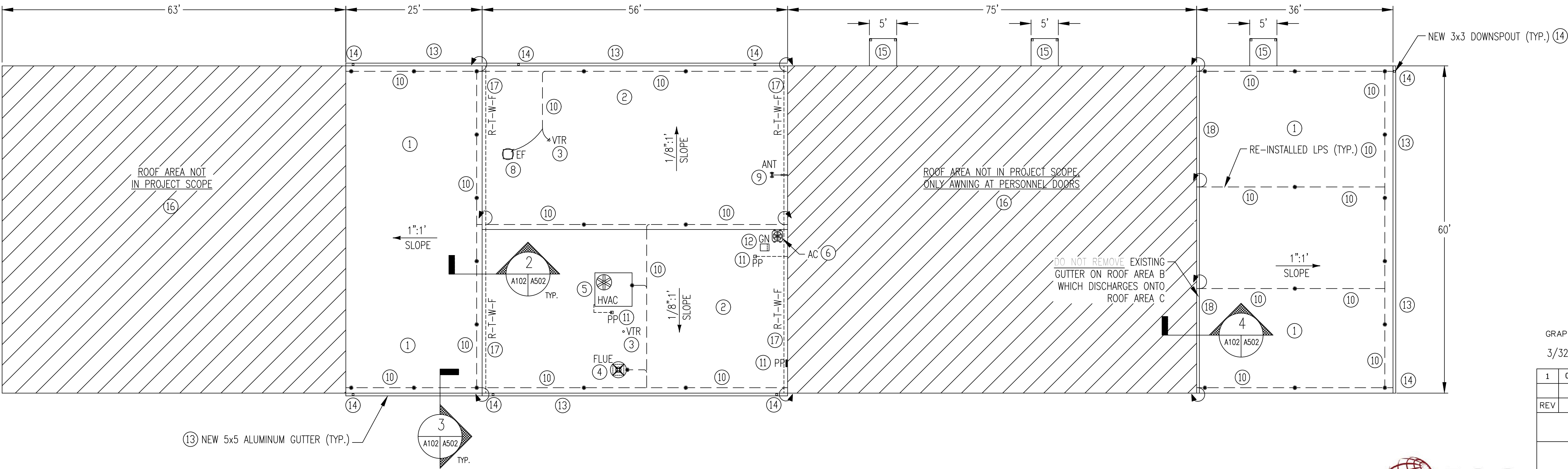
NEW WORK NOTES (THIS SHEET ONLY)

- 1 ROOF AREAS C & D: NEW TWO-PLY MODIFIED BITUMEN ROOF SYSTEM TO BE INSTALLED WITH MATRIX 101 PREMIUM SBS ADHESIVE OVER A NEW 1/2" LAYER OF DENSDECK PRIME COVERBOARD THAT IS ADHERED WITH LOW RISE FOAM ADHESIVE TO NEW POLYISOCYANURATE RIGID INSULATION THAT IS MECHANICALLY FASTENED TO THE EXISTING STEEL DECK. NEW RIGID INSULATION PLUS COVERBOARD SHALL BE EQUAL TO THE THICKNESS OF THE EXISTING INSULATION/COVERBOARD REMOVED DURING THE DEMOLITION PHASE (SEE CORE DATA ON SHEET AD101 FOR REFERENCE). NEW POLYISO. RIGID INSULATION ON ROOF AREA C = 2.5" (3" TOTAL HEIGHT W/ NEW 1/2" DENSDECK PRIME COVERBOARD); NEW POLYISO. RIGID INSULATION ON ROOF AREA D = 4.5" (5" TOTAL HEIGHT W/ NEW 1/2" DENSDECK PRIME COVERBOARD).
- 2 ROOF AREA A: NEW TWO-PLY MODIFIED BITUMEN ROOF SYSTEM TO BE INSTALLED WITH MATRIX 101 PREMIUM SBS ADHESIVE OVER A NEW 1/2" LAYER OF DENSDECK PRIME COVERBOARD THAT IS ADHERED WITH LOW RISE FOAM ADHESIVE TO (2) NEW 3.5" THICK LAYERS OF POLYISOCYANURATE RIGID INSULATION (R-38 MIN.) THAT IS MECHANICALLY FASTENED TO THE EXISTING STEEL DECK.
- 3 RE-FLASHED PLUMBING VENT THRU ROOF (VTR) LOCATION (TYP.). SEE DETAIL 1 ON SHEET A-501.
- 4 RE-FLASHED BOILER ROOF FLUE STACK LOCATION. SEE DETAIL 2 ON SHEET A-501.
- 5 EXISTING HVAC UNIT, TEMPORARILY SUPPORTED DURING THE DEMOLITION PHASE, TO BE RE-INSTALLED ON NEW CURB WITH SHEET METAL SKIRT FLASHING. SEE DETAIL 3 ON SHEET A-501.
- 6 EXISTING AIR CONDITIONING UNIT (AC), TEMPORARILY SUPPORTED DURING THE DEMOLITION PHASE, TO BE RE-INSTALLED ON NEW EQUIPMENT SUPPORT CURBS. SEE DETAIL 4 ON SHEET A-501.
- 8 EXISTING EXHAUST FAN (EF), TEMPORARILY STORED DURING THE DEMOLITION PHASE, TO BE RE-INSTALLED ON NEW CURB. SEE DETAIL 3 ON SHEET A-501.
- 9 EXISTING ANTENNA, TEMPORARILY STORED DURING THE DEMOLITION PHASE, TO BE RE-INSTALLED AT NEW ANTENNA BRACKET MOUNTED TO THE EXISTING WALL FACE.
- 10 EXISTING LIGHTNING PROTECTION SYSTEM (LPS) EQUIPMENT, TEMPORARILY STORED DURING THE DEMOLITION PHASE, TO BE RE-INSTALLED IN SAME LOCATION. THE RE-INSTALLED LIGHTNING PROTECTION SHALL BE TESTED AND UL CERTIFIED BY A QUALIFIED LIGHTNING PROTECTION DESIGNER OR INSPECTOR.
- 11 NEW PENETRATION POCKET (PP) TO BE INSTALLED AT LOCATIONS WHERE CONDENSATE DRAIN LINES AND/OR CONDUITS PENETRATE THE ROOF SYSTEM. SEE DETAIL 5 ON SHEET A-501 FOR SINGLE PENETRATION, AND SEE DETAIL 1 ON SHEET A-502 FOR PENETRATION POCKET FOR MULTI-PIPE PENETRATIONS.
- 12 EXISTING CURBED GOOSENECK VENT (GN), TEMPORARILY STORED DURING THE DEMOLITION PHASE, TO BE RE-INSTALLED ON NEW CURB. SEE DETAIL 3 ON SHEET A-501.
- 13 NEW 5x5 ALUMINUM BOX-STYLE GUTTER TO BE INSTALLED (TYP.). SEE DETAIL 3 ON SHEET A-502.
- 14 NEW 3x3 ALUMINUM DOWNSPOUT W/ SPLASHBLOCK TO BE INSTALLED (TYP.).
- 15 NEW PRE-ENGINEERED ARCHITECTURAL COMPATIBLE AWNING TO BE INSTALLED AT PERSONNEL DOOR LOCATION (TYP.). AT SINGLE PERSONNEL DOORS, NEW AWNING IS TO BE 5'-0"x5'-0" AS SHOWN IN DESIGN
- 16 NO WORK TO BE DONE AT EXISTING ROOF AREA (TYP.).
- 17 NEW ROOF-TO-WALL FLASHING (R-T-W-F) CONDITION. NEW FLASHING TO BE TERMINATED ALONG BASE OF EXISTING WALL BEHIND THE EXISTING THROUGH-WALL FLASHING. THROUGH-WALL FLASHING TO RECEIVE NEW WIND CLIPS. SEE DETAIL 2 ON SHEET A-502.
- 18 NEW FLASHING CONDITION AT EXISTING ROOF-TO-WALL EXPANSION JOINT (R-T-W-EJ). SEE DETAIL 4 ON SHEET A-502.

ROOF AREA NOT IN PROJECT SCOPE OF WORK



SHAW AFB, BLDG. 1816 – ROOF KEY PLAN
SCALE: NONE



NEW WORK ROOF PLAN – SHAW AFB, BLDG 1816
SCALE: 3/32"=1'-0"

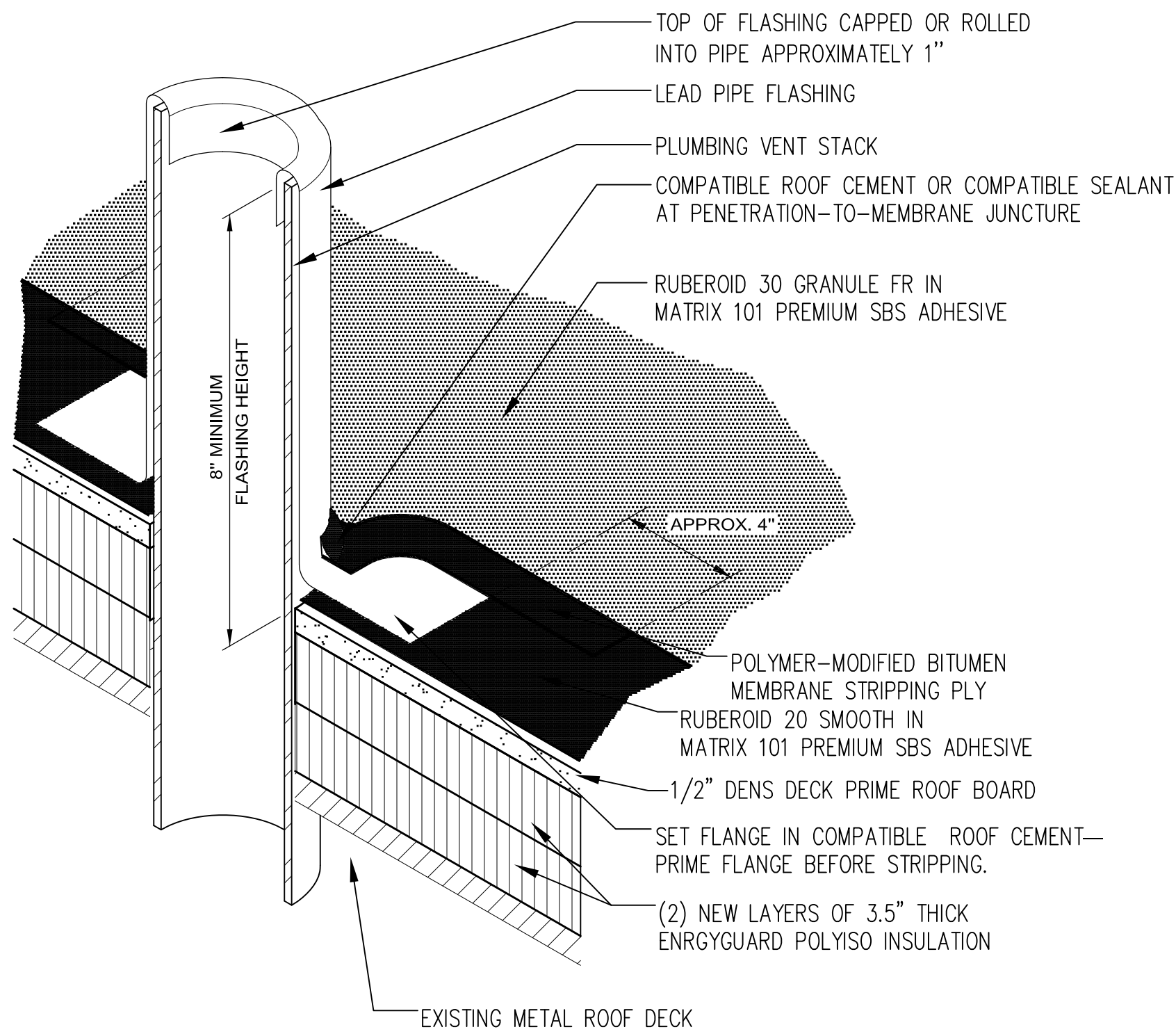
AS-BUILT

GRAPHIC SCALE:
3/32"=1'-0"

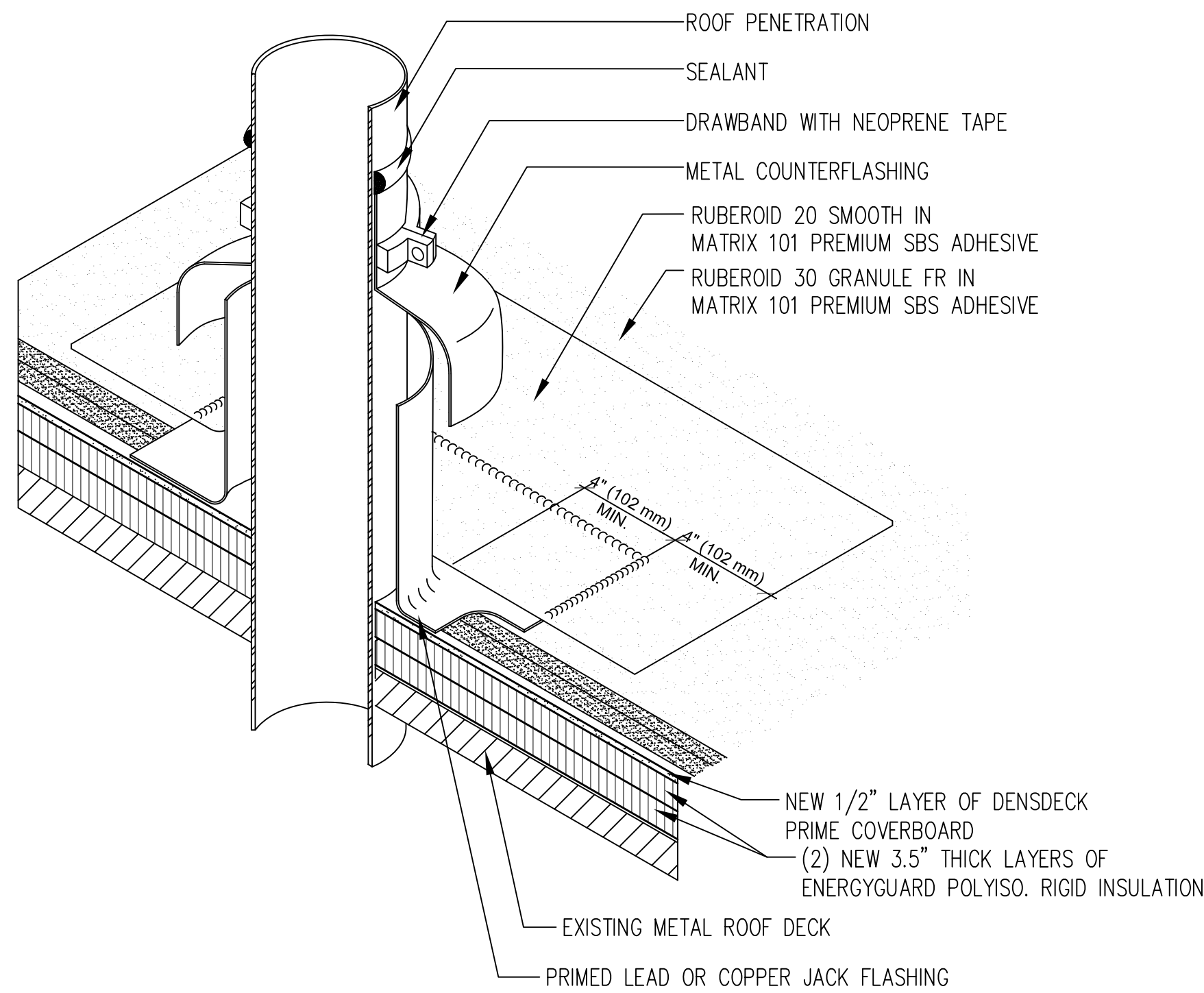


1	05/01/25	AS-BUILT	CB	MEC
REV	DATE	DESCRIPTION	BY	APPROVED
DEPARTMENT OF THE AIR FORCE TACTICAL COMMAND				
SHAW A.F.B. S.C. CIVIL ENGINEERING OFFICE				
VLSB 22-0017				
REPAIR ROOF B1816				
NEW WORK ROOF PLAN				
CHECKED BY MEC	DATE 07 FEB 25	DRAWN BY CBELL	SCALE 3/32"=1'-0"	SHEET 3 OF 5
PROJECT NO VSLB 22-0017	DRAWING NO A-102			

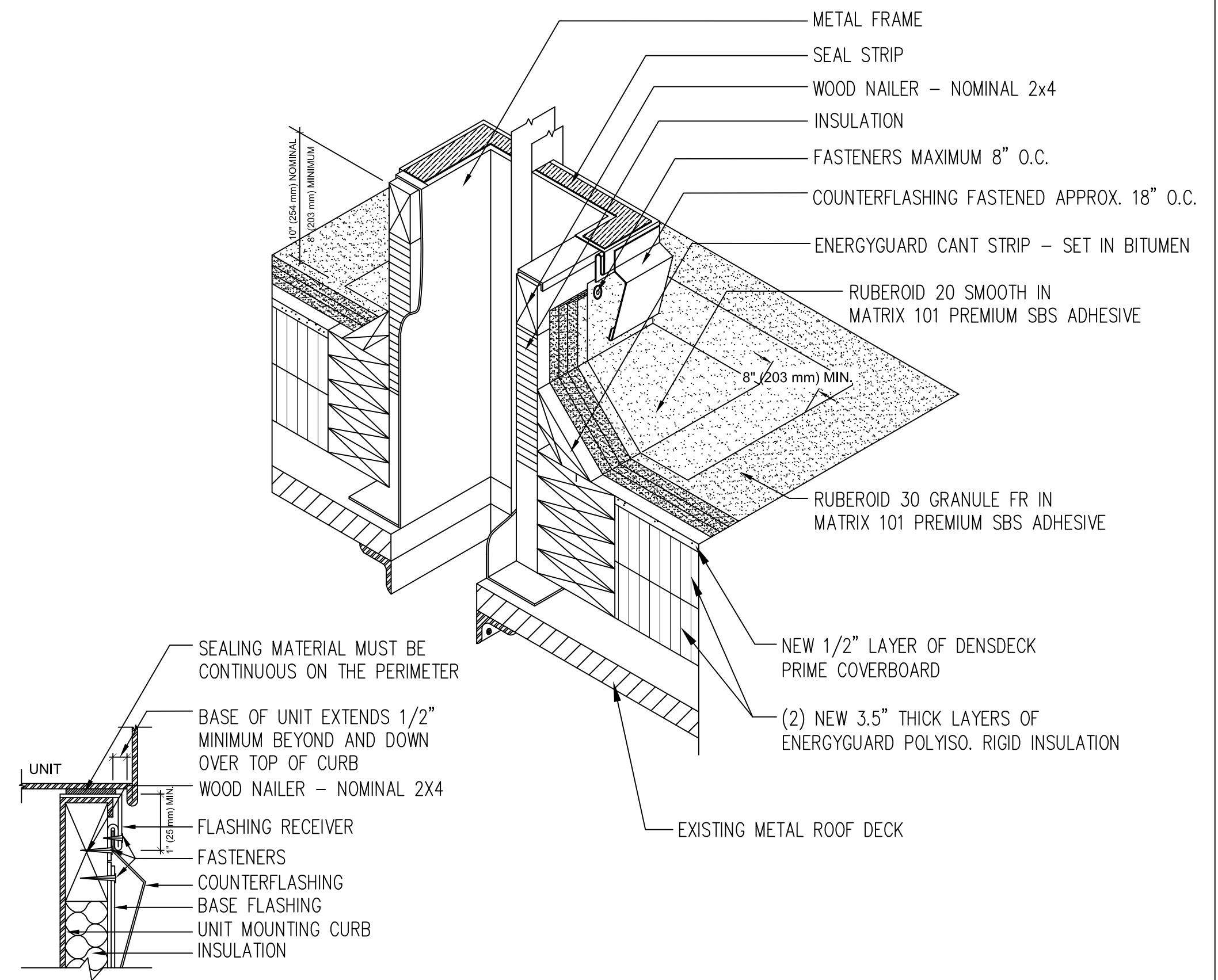




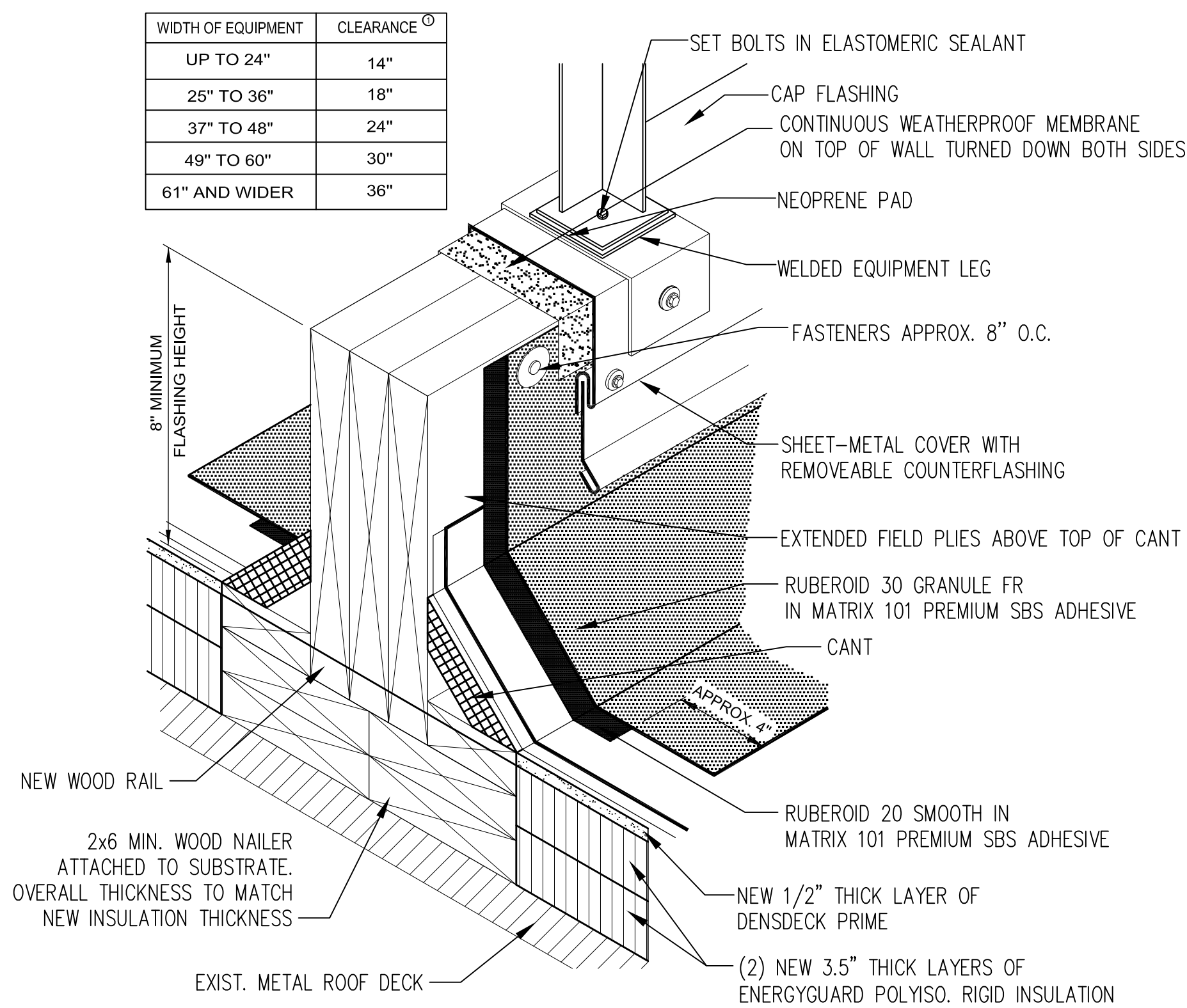
1 PLUMBING VENT FLASHING DETAIL
A102/A501 SCALE: NONE



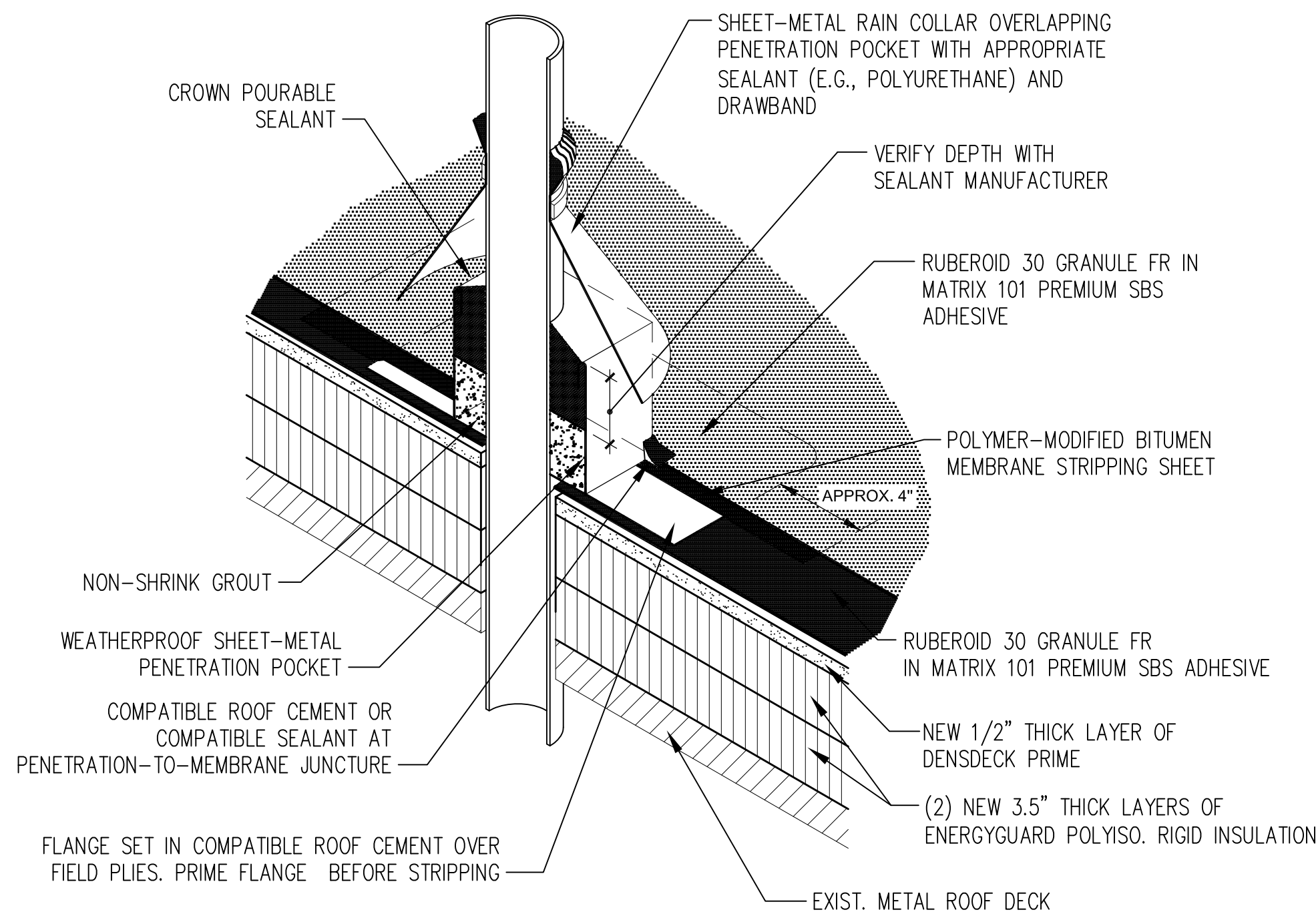
2 FLUE STACK FLASHING DETAIL
A102/A501 SCALE: NONE



3 HVAC CURB FLASHING DETAIL
A102/A501 SCALE: NONE



4 BASE FLASHING AT EQUIPMENT SUPPORT RAIL DETAIL
A102/A501 SCALE: NONE



5 PENETRATION POCKET - SINGLE PENETRATION DETAIL
A102/A501 SCALE: NONE



AS-BUILT

1	05/01/25	AS-BUILT	CB	MEC
REV	DATE	DESCRIPTION	BY	APPROVED

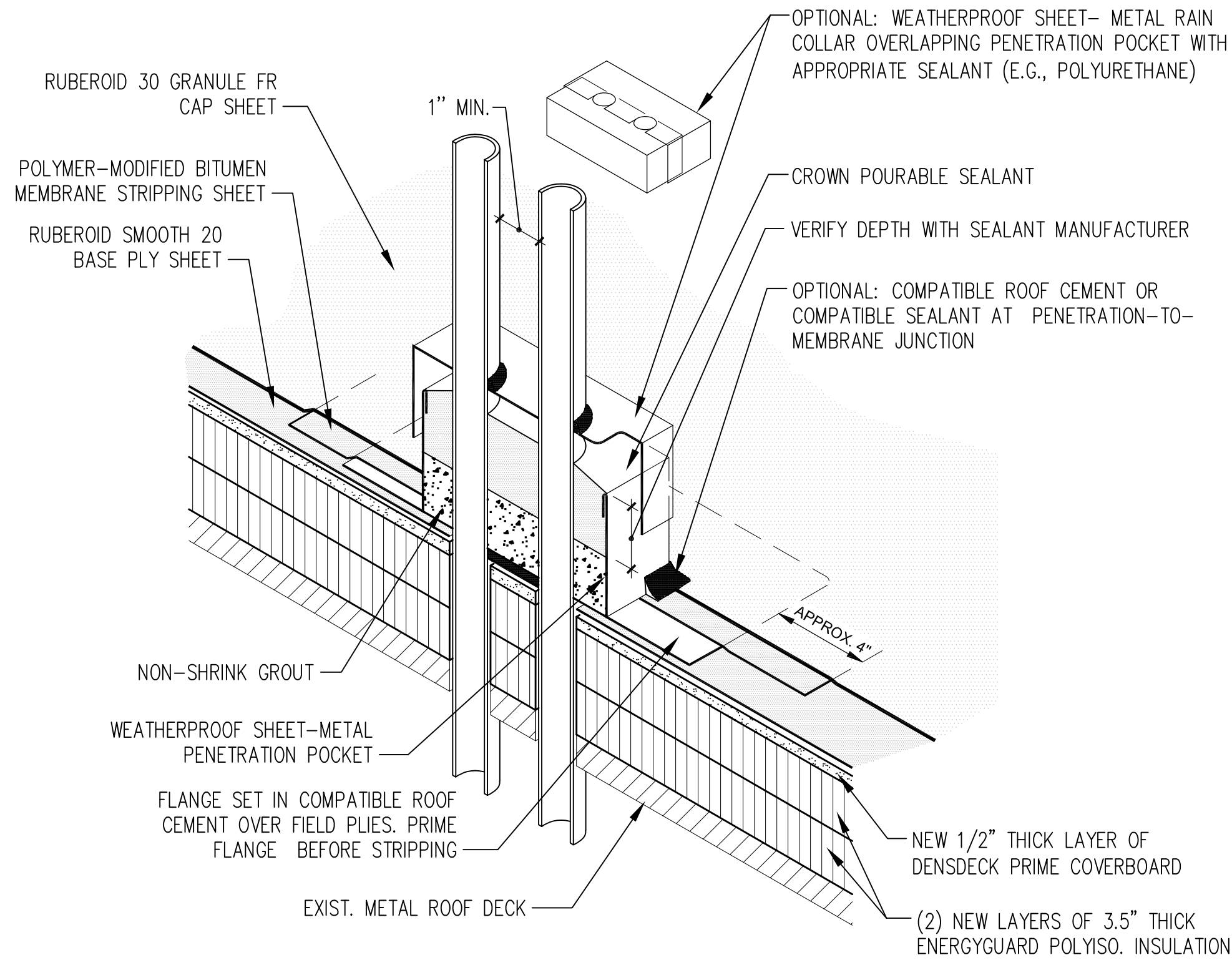
DEPARTMENT OF THE AIR FORCE
TACTICAL COMMAND

SHAW A.F.B. S.C.
CIVIL ENGINEERING OFFICE

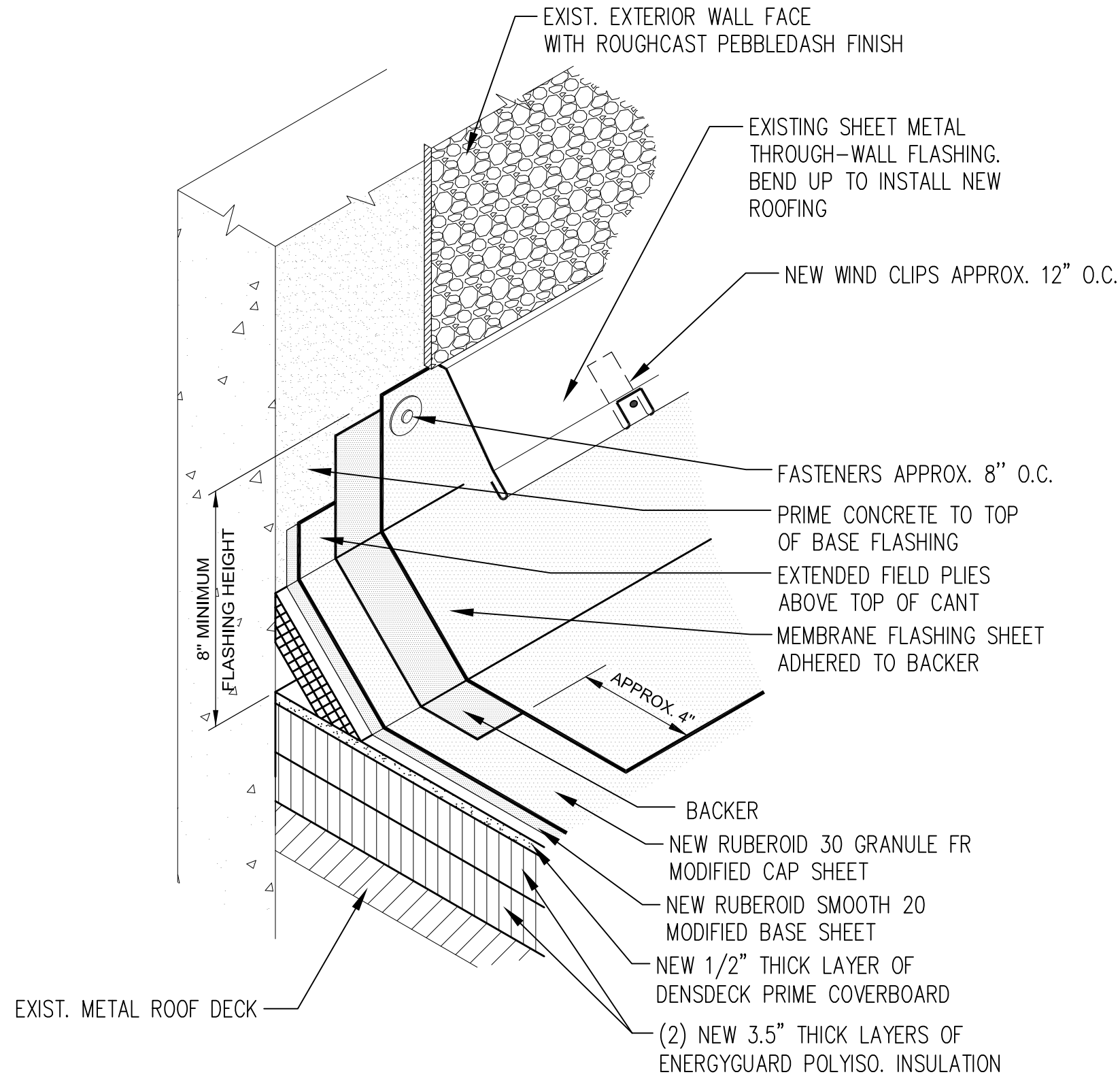
VLSB 24-0017
REPAIR ROOF B1816

DETAILS

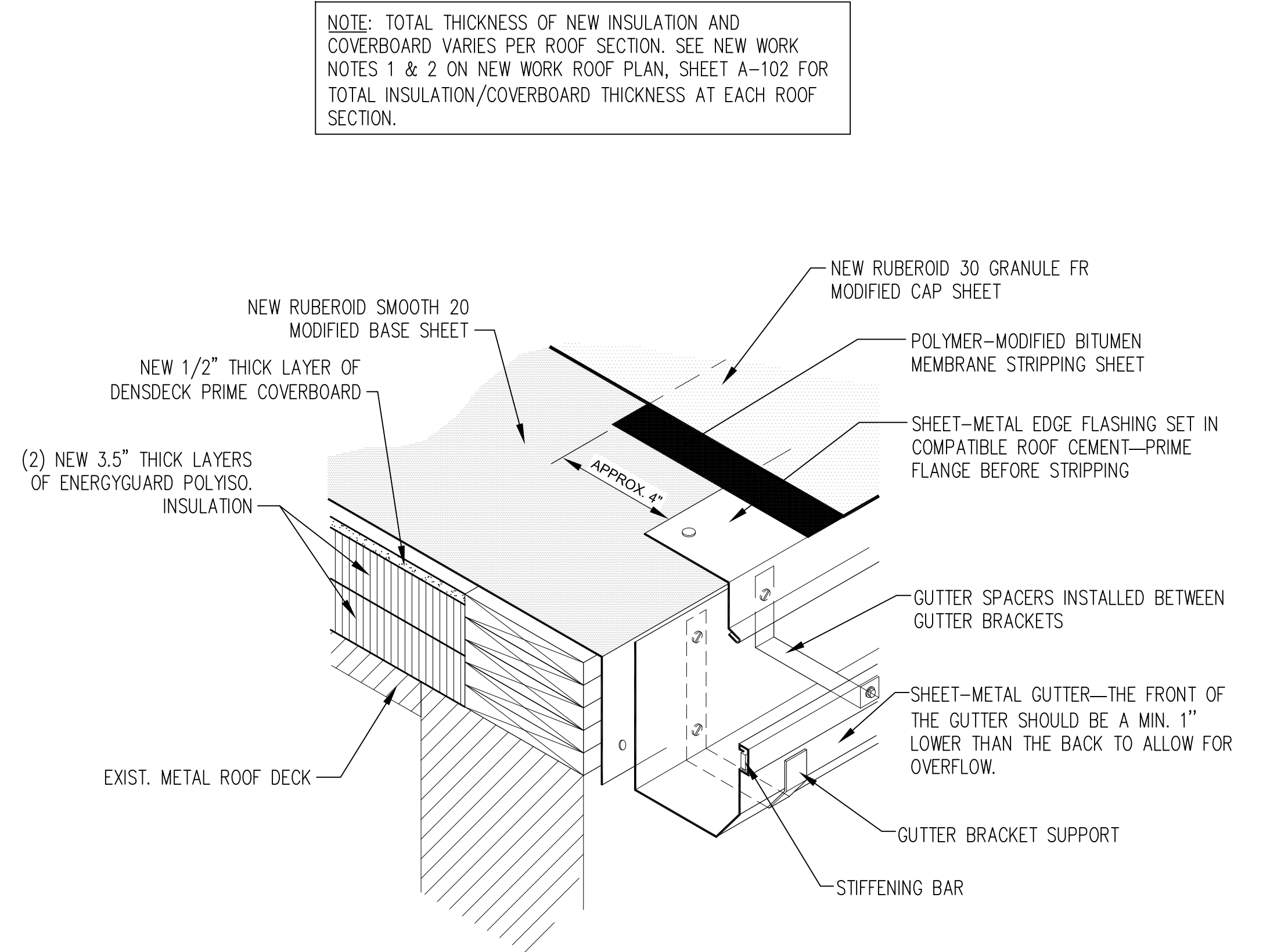
CHECKED BY	MEC	DRAWN BY	CBELL	DATE	07 FEB 25	SCALE	NONE
PROJECT NO	VSLB 22-0017	DRAWING NO	A-501	SHEET	4	OF	5



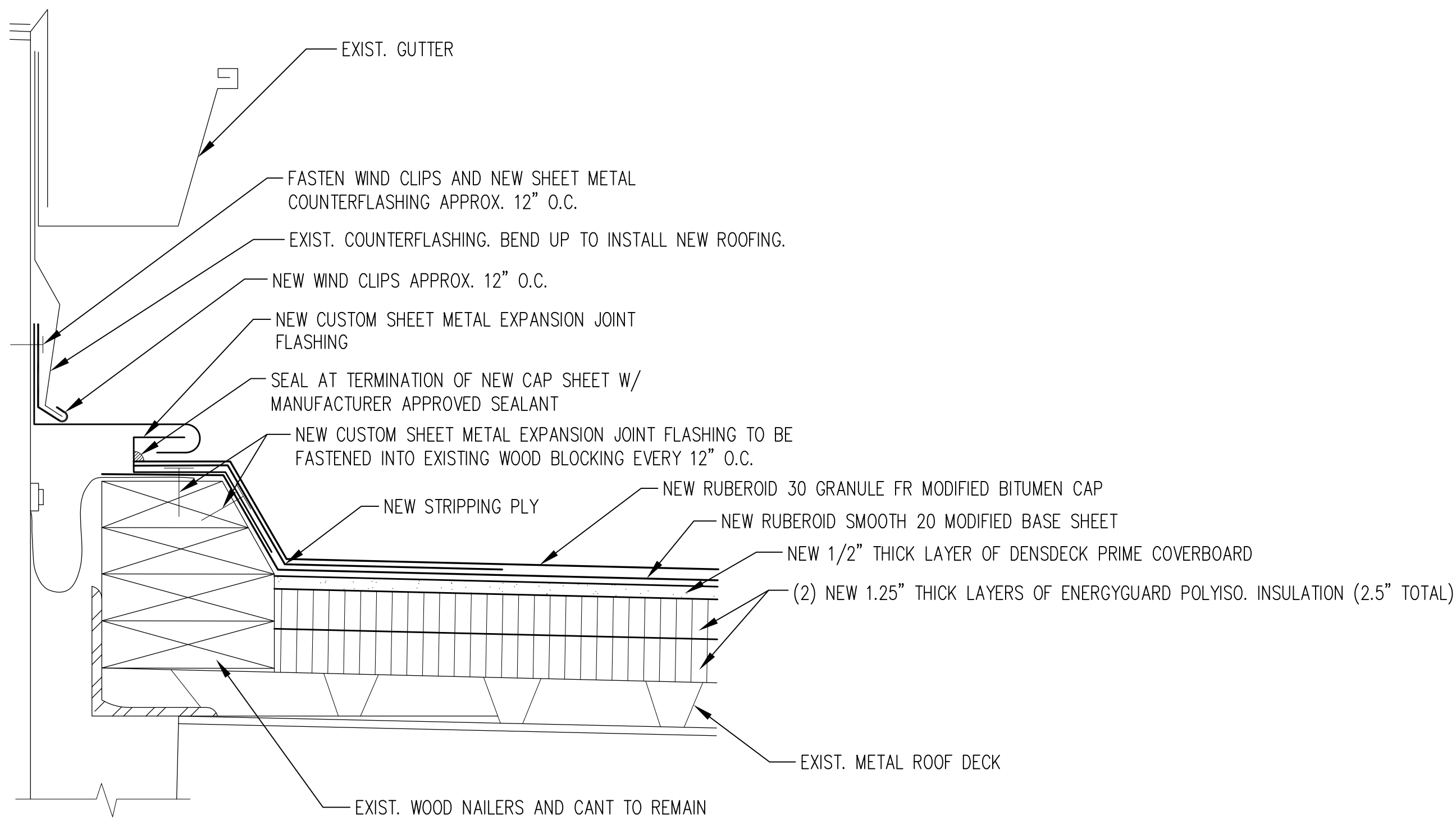
1 PENETRATION POCKET – MULTI-PIPE PENETRATION DETAIL
A102/A502 SCALE: NONE



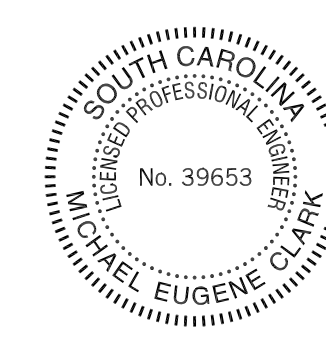
2 ROOF-TO-WALL FLASHING (R-T-W-F) DETAIL (TYP.)
A102/A502 SCALE: NONE



3 NEW PERIMETER METAL DRIP EDGE AND GUTTER DETAIL
A102/A502 SCALE: NONE



4 ROOF-TO-WALL EXPANSION JOINT FLASHING DETAIL
A102/A502 SCALE: NONE



AS-BUILT				
1	05/01/25	AS-BUILT	CB	MEC
REV	DATE	DESCRIPTION	BY	APPROVED
DEPARTMENT OF THE AIR FORCE TACTICAL COMMAND				
SHAW A.F.B. S.C. CIVIL ENGINEERING OFFICE				
VLSB 24-0017 REPAIR ROOF B1816				
DETAILS				
CHECKED BY MEC	DRAWN BY CBELL	DATE 07 FEB 25	SCALE NONE	
PROJECT NO VLSB 22-0017	DRAWING NO A-502	SHEET 5 OF 5		