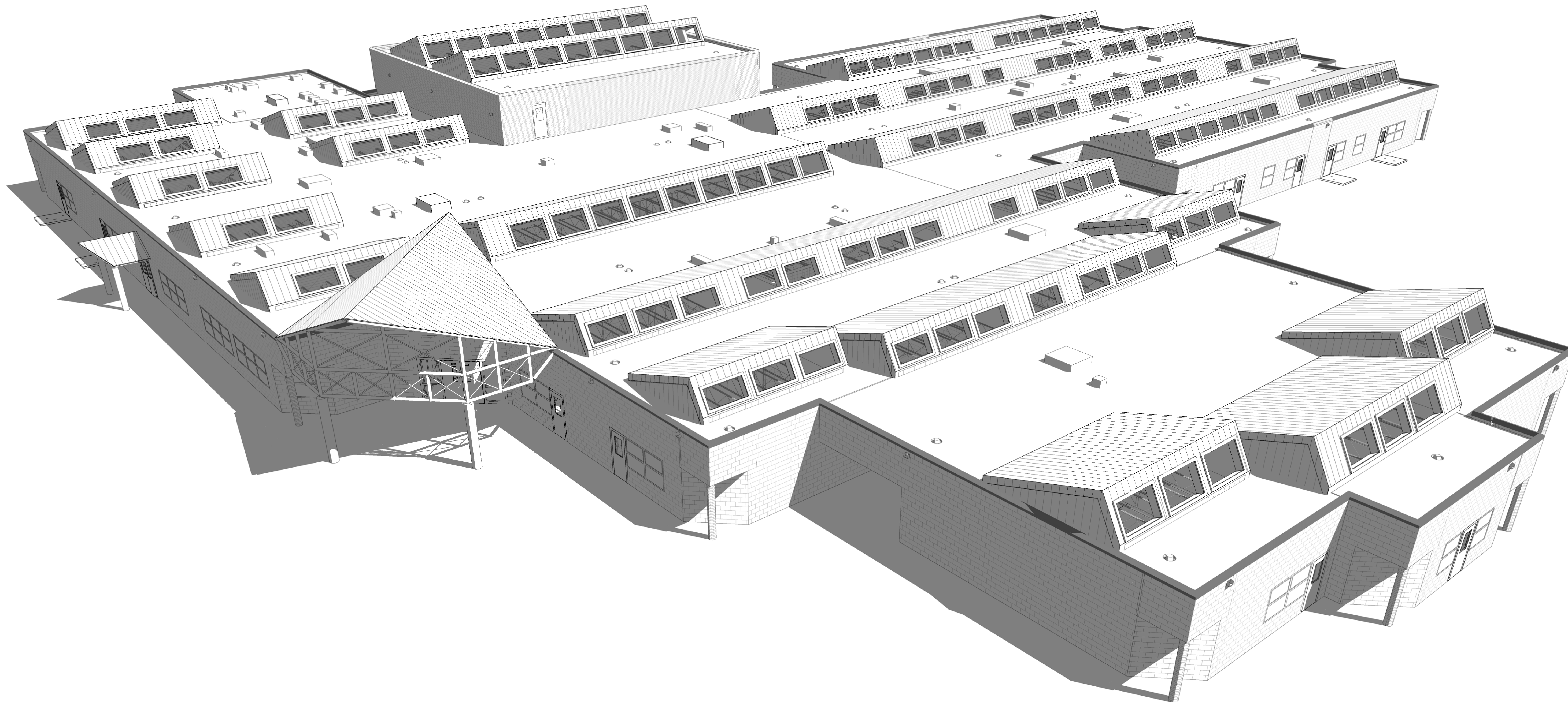


MCGRAW ELEMENTARY METAL ROOF REPLACEMENT

POUDRE SCHOOL DISTRICT



OWNER

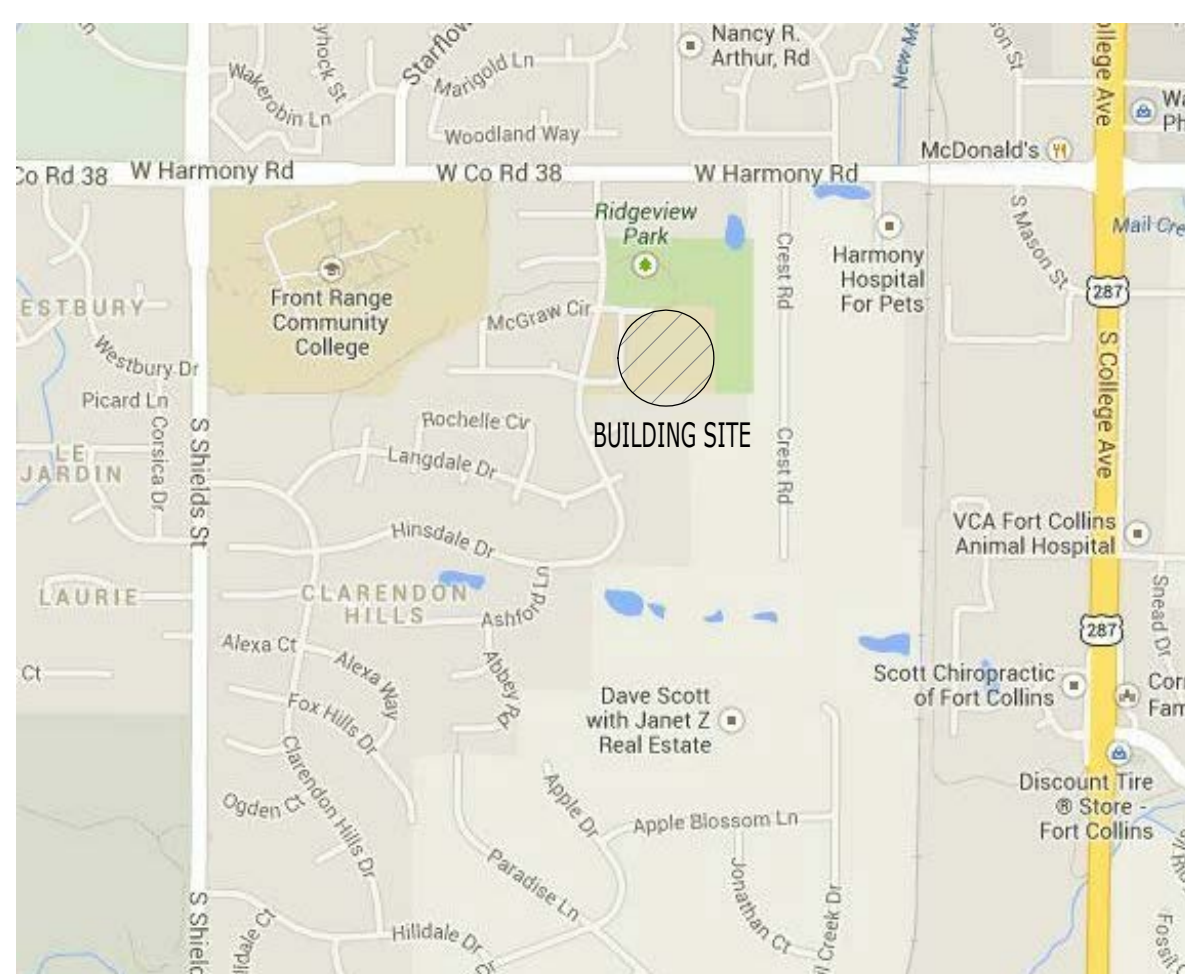
POUDRE SCHOOL DISTRICT
2407 LAPORTE AVENUE
FORT COLLINS, COLORADO 80521
Phone: 970.490.3617
Fax: 970.490.3524

ARCHITECT

RB+B ARCHITECTS, INC.
315 E. MOUNTAIN AVENUE
SUITE 100
FORT COLLINS, COLORADO 80524
Phone: 970.484.0117
Fax: 970.484.0264

CONTRACT DOCUMENTS

PROJECT SITE MAP



GENERAL NOTES

1. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT IMMEDIATELY WHEN DISCREPANCIES ARE DISCOVERED.
2. IF ALTERNATE #1 IS NOT ACCEPTED BY OWNER; CONTRACTOR TO PROVIDE \$20,000 ALLOWANCE IN BID FOR SKYLIGHT GLAZING BROKEN DURING CONSTRUCTION. IN ADDITION, OWNER TO BE NOTIFIED IF ANY (E) WOOD NAILER STRIPS ARE MOISTURE DAMAGED AND IN NEED OF REPLACEMENT. OWNER TO PROVIDE REPLACEMENT NAILER STRIPS AT WINDOWS AS NEEDED.
3. CONTRACTOR TO PROVIDE ROOF PROTECTION AT ALL AREAS UNDER CONSTRUCTION SUCH THAT (E) ROOF SURFACE IS NOT DAMAGED DURING CONSTRUCTION OPERATIONS.
4. CONTRACTOR SHALL SUBMIT A CONSTRUCTION STAGING PLAN FOR OWNER/ARCHITECT'S REVIEW AT THE PRE-CONSTRUCTION CONFERENCE. THE STAGING PLAN SHALL IDENTIFY THE CONTRACTOR'S PROPOSED MATERIAL STAGING AREAS AS WELL AS PROPOSED CRANE SET LOCATIONS. RE: A543 FOR AERIAL PHOTOGRAPH TO BE USED IN CREATING STAGING PLAN.
5. CONTRACTOR TO PROTECT EXISTING TO REMAIN ADJACENT FLAT ROOF SURFACES AND REPAIR ANY AREAS DAMAGED BECAUSE OF WORK PERFORMED IN THIS CONTRACT.

SHEET INDEX

G000	COVER SHEET
A160	ROOF PLAN
A541	ROOF DETAILS
A542	ROOF DETAILS
A543	EXISTING PHOTOS

LIST OF PROPOSED ALTERNATES

- ALTERNATE #1 - FULL GLAZING REPLACEMENT
- ALTERNATE #2 - SNOW GUARDS

PROJECT #: 1907
ISSUED: 12.11.2020

DEMOLITION ROOF SCOPE OF WORK

- D1) DEMO (E) STANDING SEAM METAL ROOF PANELS AND ALL ASSOCIATED TRIM AND FLASHING MEMBERS AT ROOF MONITOR ASSEMBLIES AS INDICATED.
- D2) DEMO (E) METAL BASE FLASHING AND COUNTERFLASHING AT PERIMETER OF ROOF MONITOR CURBS.
- D3) DEMO (E) BRAKE METAL CLERESTORY WINDOW FRAME CAPS AT PERIMETER OF (E) LITES. (E) EXTRUDED ALUMINUM PRESSURE PLATE GLAZING ANCHOR SYSTEM AND (E) GLAZING UNITS BELOW TO REMAIN.
- D4) EVALUATE (E) PLYWOOD SHEATHING AT NORTH FACE OF (E) ROOF MONITOR CURBS FOR (E) MOISTURE DAMAGED MATERIALS. ADVISE OWNER/ ARCHITECT IF DAMAGED MATERIALS ARE ENCOUNTERED.

NEW ROOF SCOPE OF WORK

- 1) PROVIDE (N) BRAKE METAL CLERESTORY WINDOW FRAME CAPS AT PERIMETER OF (E) LITES OVER (E) EXTRUDED ALUMINUM PRESSURE PLATE GLAZING ANCHOR SYSTEM. MATCH GAUGE AND COLOR OF (N) CONCEALED-FASTENER METAL ROOF PANELS. PROVIDE SEALANT WHERE BRAKE METAL CLERESTORY WINDOW FRAME CAP JOINS GLAZING AND (N) CONCEALED-FASTENER METAL ROOF PANELS. PROVIDE MECHANICAL FASTENERS WITH NEOPRENE WASHERS ALONG HEAD/JAMB/SILL PER DETAILS. PROVIDE SEALANT AT ALL GAPS IN (E) ALUMINUM PRESSURE PLATES.
 - 2) PROVIDE (N) CONCEALED-FASTENER, LAP-SEAM, METAL ROOF PANELS AS INDICATED, OVER:
 - (N) ICE AND WATER SHIELD
 - (N) SYNTHETIC ROOF UNDERLAYMENT
 - 3)
 - PROVIDE (N) RIDGE CAPS AND EDGE FLASHING
 - PROVIDE (N) METAL PANEL HEAD FLASHING AT ALL CLERESTORY GLAZING UNITS
 - PROVIDE (N) BASE FLASHING/COUNTERFLASHING
 - INSTALL BASE FLASHING COMPONENT OF SPRING-LOCK COUNTERFLASHING
 - 4) PROVIDE AND INSTALL (N) SPRING-LOCK COUNTERFLASHING COMPONENT
 - 5) POST-CONSTRUCTION WATER TEST: CONTRACTOR SHALL PERFORM A POST-CONSTRUCTION WATER TEST AT (E) ROOF MONITOR GLAZING UNITS IN THE PRESENCE OF OWNER/ARCHITECT. THE POST CONSTRUCTION WATER TEST SHALL CONSIST OF THE CONTRACTOR SPRAYING A CONTINUOUS STREAM OF WATER FROM A 3/4" GARDEN HOSE ONTO THE (E) ROOF MONITOR ASSEMBLIES ABOVE, BELOW AND AROUND SELECT GLAZING UNITS.
 - 6) PROVIDE MOCK-UP ASSEMBLY AT A TYPICAL ROOF MONITOR FOR REVIEW BY OWNER/ARCHITECT. MOCK-UP MAY BE INCORPORATED INTO FINISHED WORK IF ACCEPTED.
 - 7) GC TO NOTE: FOAMED IN PLACE ROOFING SYSTEM REPAIRS/REPLACEMENT TO BE COMPLETED BY "WATTLE AND DAUB", PER ROOFING WARRANTY.
- SPECIFICATIONS INFORMATION**
- 1) 07 00 00 - ICE AND WATER SHIELD:
PROVIDE GRACE: 'ICE AND WATER SHIELD HT', OR APPROVED EQUAL
 - 2) 07 13 00 - SYNTHETIC ROOFING UNDERLAYMENT
PROVIDE INTERWRAP: 'TITANIUM UDL 30', OR APPROVED EQUAL
 - 3) 07 41 13 - CONCEALED-FASTENER, LAP-SEAM, METAL ROOF PANELS:
PROVIDE ENGLERT: 'SERIES 2000' STANDING SEAM METAL ROOF SYSTEM, OR APPROVED EQUAL
-PROVIDE 'SNAP-LOCK' SEAMS; 16" O.C.
-PROVIDE 24 GA MATERIAL
-PROVIDE MANUFACTURER'S STANDARD (2) YEAR WARRANTY
-PROVIDE MANUFACTURER'S SPECIAL FINISH (20) YEAR WARRANTY
-MATCH SEAM CONFIGURATION OF (E) TO BE DEMOLISHED METAL ROOFING PANELS; COLOR TO MATCH (E) TO REMAIN PARAPET CAP.
 - 4) 07 62 00 - SHEET METAL FLASHING AND TRIM
SECTION INCLUDES: PARAPET CAPS (COPING), MISCELLANEOUS METAL FLASHINGS AND TRIM.
PROVIDE BERRIDGE MANUFACTURING COMPANY: 'KYNAR 500/HYLAR 5000', FULL-LINE OF COLOR OPTIONS, NOT TO EXCLUDE PREMIUM AND/OR METALLIC COLORS OR APPROVED EQUAL.
-PROVIDE 24 GA MATERIAL, FLUOROPOLYMER COATED GALVALUME FLAST SHEET MATERIAL.
-COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL-LINE OF COLOR OPTIONS.
-CONCEALED FINISH: PRETREAT WITH MANUFACTURER'S STANDARD WHITE OR LIGHT-COLORED ACRYLIC OR POLYESTER BACKER FINISH, CONSISTING OF PRIME COAT AND WASH COAT WITH MINIMUM TOTAL DRY FILM THICKNESS OF 0.5 MIL (0.013 MM).
-GENERAL: PROVIDE MATERIALS AND FASTENERS, PROTECTIVE COATINGS, SEALANTS, AND OTHER MISCELLANEOUS ITEMS AS REQUIRED FOR COMPLETE SHEET METAL FLASHING AND TRIM INSTALLATION AND AS RECOMMENDED BY MANUFACTURER OF PRIMARY SHEET METAL, SMACNA ARCHITECTURAL SHEET METAL MANUAL, OR MANUFACTURED ITEM UNLESS OTHERWISE INDICATED.
 - 5) 07 92 00 - JOINT SEALANTS:
PROVIDE TITEBOND: 'WEATHERMASTER METAL ROOF SEALANT', OR APPROVED EQUAL; COLOR TO BE CLEAR AT GLAZING AND TO MATCH METAL PANEL AT ALL OTHER LOCATIONS.
 - 6) 08 80 00 - GLAZING (IF DAMAGED/IN NEED OF REPLACEMENT /ALTERNATE #1)
GLASS MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
 1. AGC GLASS COMPANY NORTH AMERICA, INC.
 2. CARDINAL GLASS INDUSTRIES.
 3. GUARDIAN GLASS; SUNGUARD.
 4. VITRO ARCHITECTURAL GLASS.
 - A. TINTED ANNEALED FLOAT GLASS: ASTM C1036, TYPE I, CLASS 2 (TINTED), QUALITY-Q3.
 - B. PYROLYTIC-COATED, LOW-MAINTENANCE GLASS (LOW-E COATING): CLEAR FLOAT GLASS WITH A COATING ON FIRST SURFACE HAVING BOTH PHOTOCATALYTIC AND HYDROPHILIC PROPERTIES THAT ACT TO LOOSEN DIRT AND TO CAUSE WATER TO SHEET EVENLY OVER THE GLASS INSTEAD OF BEADING.

LAMINATED GLASS
FABRICATORS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

 1. AGC GLASS COMPANY NORTH AMERICA, INC.
 2. CARDINAL GLASS INDUSTRIES.
 3. GUARDIAN GLASS; SUNGUARD.
 4. TRULITE GLASS & ALUMINUM SOLUTIONS.
 5. VIRACON:
 - A. LAMINATED GLASS: ASTM C1172. USE MATERIALS THAT HAVE A PROVEN RECORD OF NO TENDENCY TO BUBBLE, DISCOLOR, OR LOSE PHYSICAL AND MECHANICAL PROPERTIES AFTER FABRICATION AND INSTALLATION.

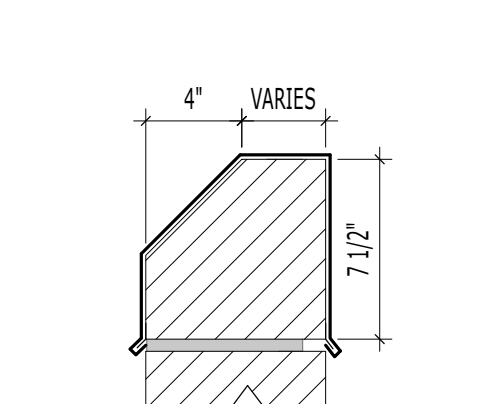
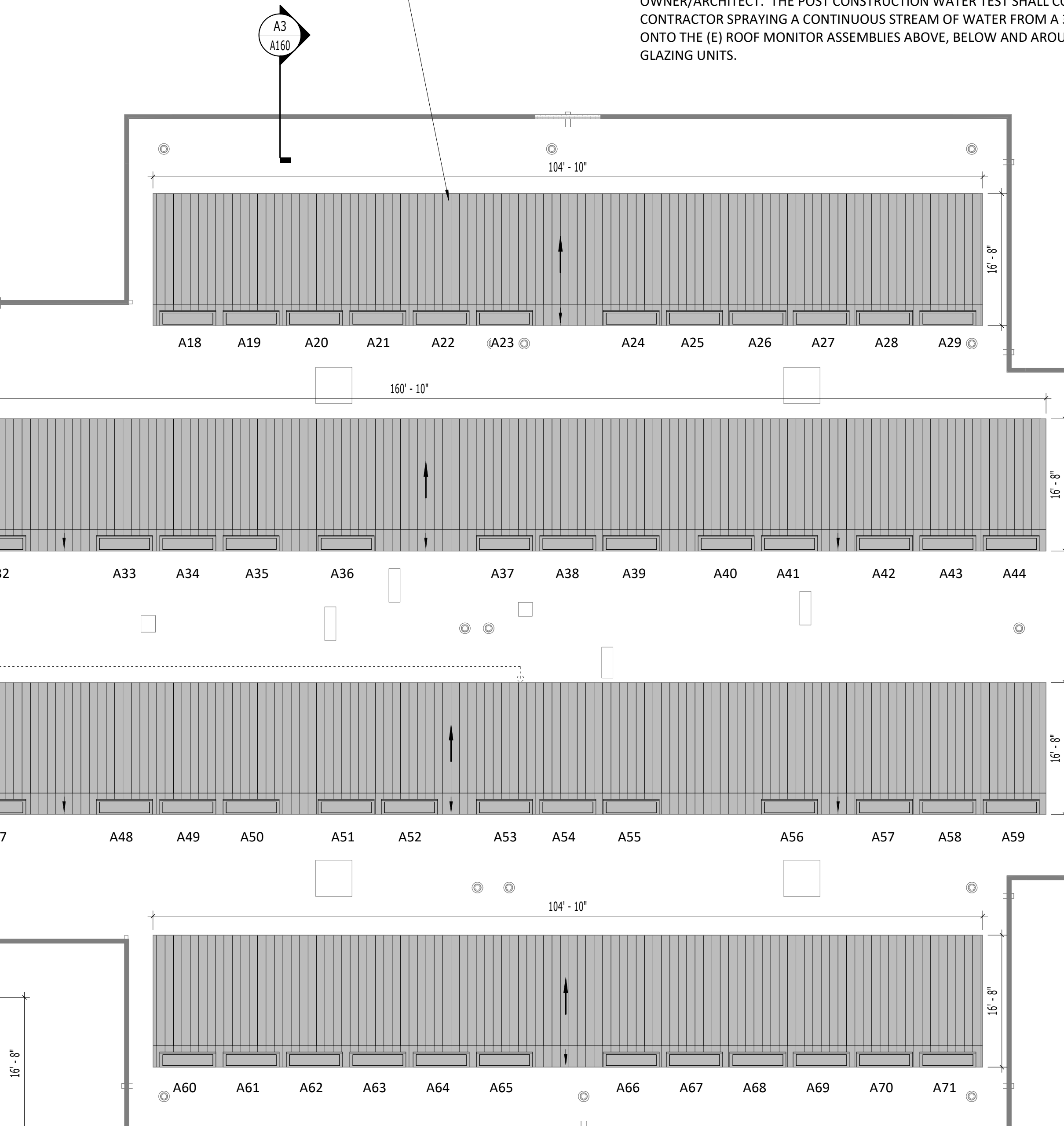
CONSTRUCTION: LAMINATE GLASS WITH CLEAR POLYVINYL BUTYRAL INTERLAYER TO COMPLY WITH INTERLAYER MANUFACTURER'S WRITTEN INSTRUCTIONS.

 - A. THICKNESS: NOMINAL 1/4 INCH.
 - B. FOR ACOUSTIC GLASS TYPE IC: PROVIDE WITH INTERLAYER SAFLEX ACOUSTIC PVB INTERLAYER Q541, 0.63 MM THICK.
 - C. FOR INSULATING GLASS UNIT TYPE 4 AND 4T "TRANSLUCENT": PROVIDE LAMINATED GLASS WITH INTERLAYER INDICATED IN INSULATING GLASS TYPES SCHEDULE BELOW.
 - D. INTERLAYER THICKNESS: 0.030 INCH, WHERE NOT INDICATED OTHERWISE.

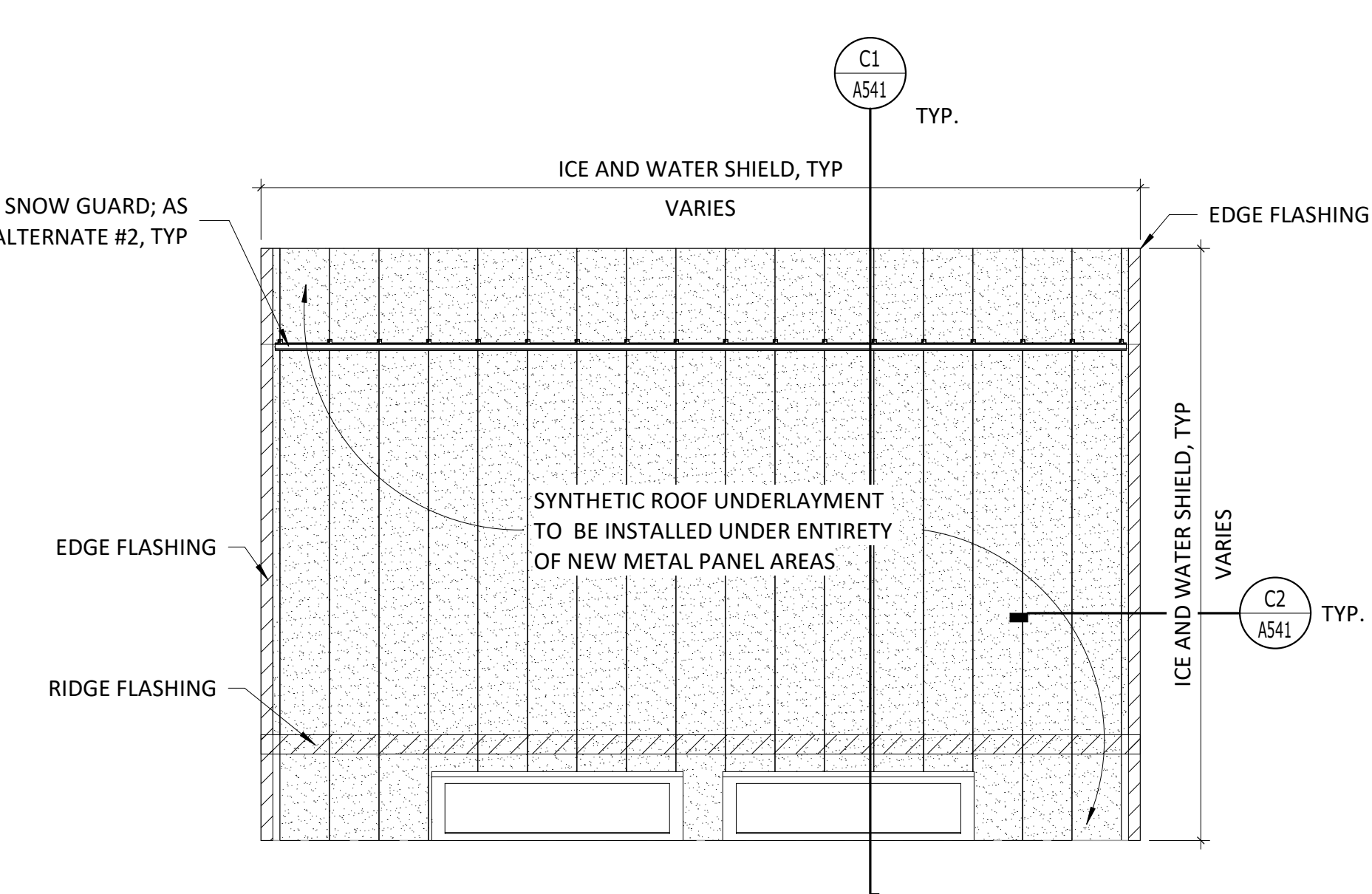
GLASS TYPES: TRANSLUCENT (SOUTH, EAST, AND WEST DAYLIGHTING WINDOWS).

 - A. OVERALL UNIT THICKNESS: 1 INCH (25 MM).
 - B. THICKNESS OF EXTERIOR LITE: 6.0 MM. OUTDOOR LITE: TINTED HEAT-STRENGTHENED FLOAT GLASS.
 - C. OUTDOOR LITE: TINTED HEAT-STRENGTHENED FLOAT GLASS.
 - D. INTERSPACE CONTENT: AIR
 - E. INDOOR LITE: 4 MM CLEAR HEAT-STRENGTHENED FLOAT GLASS + 0.030 INCH VANCEVA "ARCTIC SNOW" INTERLAYER + 4 MM CLEAR HEAT-STRENGTHENED FLOAT GLASS.
 - F. VISIBLE LIGHT TRANSMITTANCE: 25% - 30%.
 - G. SOLAR HEAT GAIN COEFFICIENT: < 0.33.
 - H. U-VALUE WINTER: < 0.33.
 - I. U-VALUE SUMMER: < 0.33.
 - 7) ALTERNATE #2 - SNOW GUARDS
07 72 00 - ROOF ACCESSORIES
PROVIDE ALPINE SNOWGUARDS: SNOWMAX OR APPROVED EQUAL
-PROVIDE 'SNAP-LOCK' STANDING SEAM ATTACHMENT BRACKET
A. 6000 SERIES ALUMINUM BRACKET (SNAP-LOCK)
B. SET SCREWS, 304 STAINLESS STEEL 18.8 ALLOY; MINIMUM 2 SET SCREWS PER BRACKET
C. STAINLESS STEEL FLAT HEAD BOLT, 304 STAINLESS STEEL 18.8 ALLOY
D. STAINLESS STEEL LOCK WASHER - 18.9 STAINLESS STEEL
E. STANDARD MILL FINISH
F. SPACING TO BE RECOMMENDED BY MANUFACTURER OR BUILDING ENGINEER
- SUBMIT MANUFACTURER'S SPECIFICATIONS, STANDARD DETAILS DRAWINGS, INSTALLATION INSTRUCTIONS, AND RECOMMENDED LAZY TO OWNER.
- INSTALLER TO BE EXPERIENCED IN THE INSTALLATION OF SPECIFIC ROOFING MATERIAL AND SNOW GUARDS FOR NOT LESS THAN 5 YEARS IN THE SPECIFIED ARE FOR THE PROJECT.

DEMOLITION (E) STANDING SEAM METAL ROOF PANELS
PROVIDE (N) STANDING SEAM METAL ROOF PANELS
TYP, ALL ROOF MONITORS



PROVIDE AND INSTALL NEW 24 GA METAL PARAPET CAP OVER EXISTING BLOCK ON ENTIRE BUILDING. COLOR TO MATCH (N) STANDING SEAM METAL ROOFING PANEL.



DEMOLITION (E) STANDING SEAM METAL ROOF PANELS
PROVIDE (N) STANDING SEAM METAL ROOF PANELS
TYP, ALL ENTRY ROOF COVERINGS

NEW SNOW GUARDS AT ENTRY GABLES, ALTERNATE #2, TYP

NEW SNOW GUARDS AT MONITORS, ALTERNATE #2, TYP

NEW SNOW GUARDS AT ENTRY GABLES, ALTERNATE #2, TYP

DEMOLITION (E) STANDING SEAM METAL ROOF PANELS
PROVIDE (N) STANDING SEAM METAL ROOF PANELS, TYP, ALL ENTRY ROOF COVERINGS

NOTE: VERIFY ALL METAL ROOFING DIMENSIONS IN FIELD

(E) CLERESTORY GLAZING TYPE 'A'
UNIT DIMENSIONS: 76" OR 94"(W) x 34"(H)

(E) CLERESTORY GLAZING TYPE 'B'
UNIT DIMENSIONS: 76" OR 94"(W) x 46"(H)

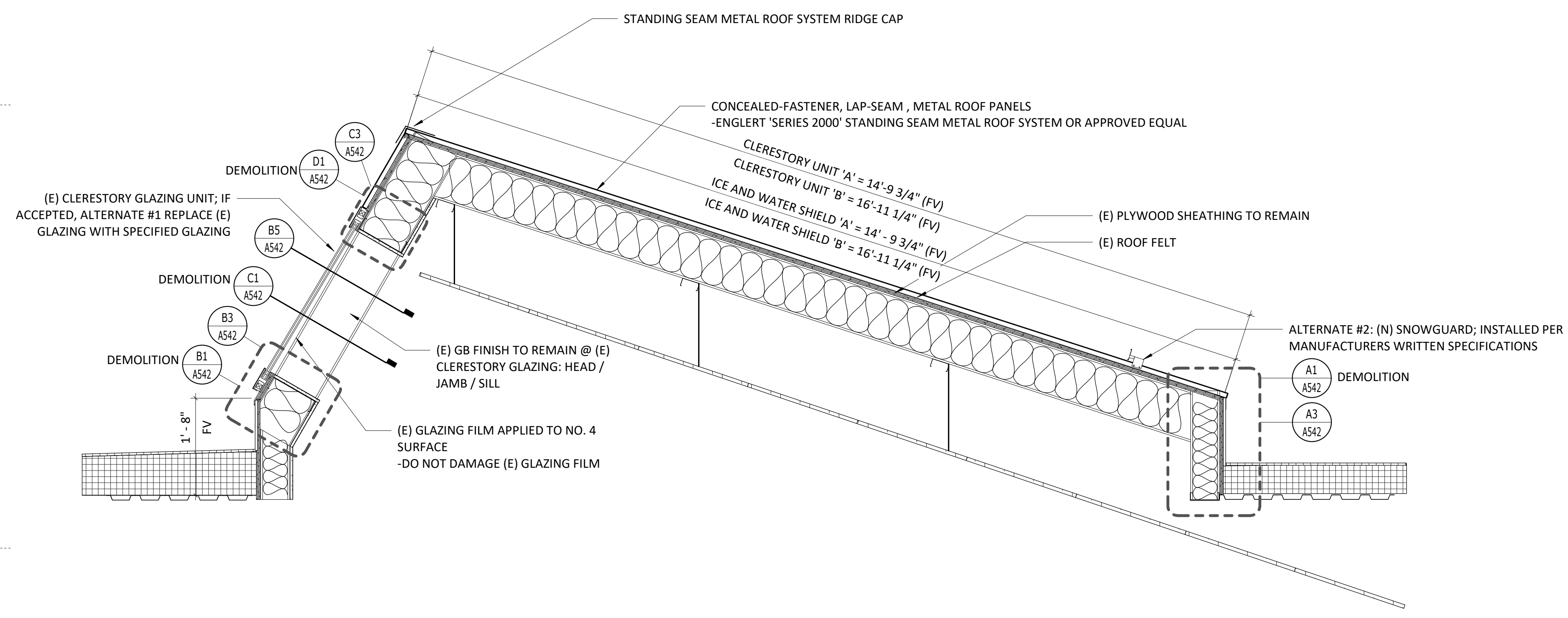
DEMOLITION (E) STANDING SEAM METAL ROOF PANELS
PROVIDE (N) STANDING SEAM METAL ROOF PANELS

ROOF PLAN - LEGEND

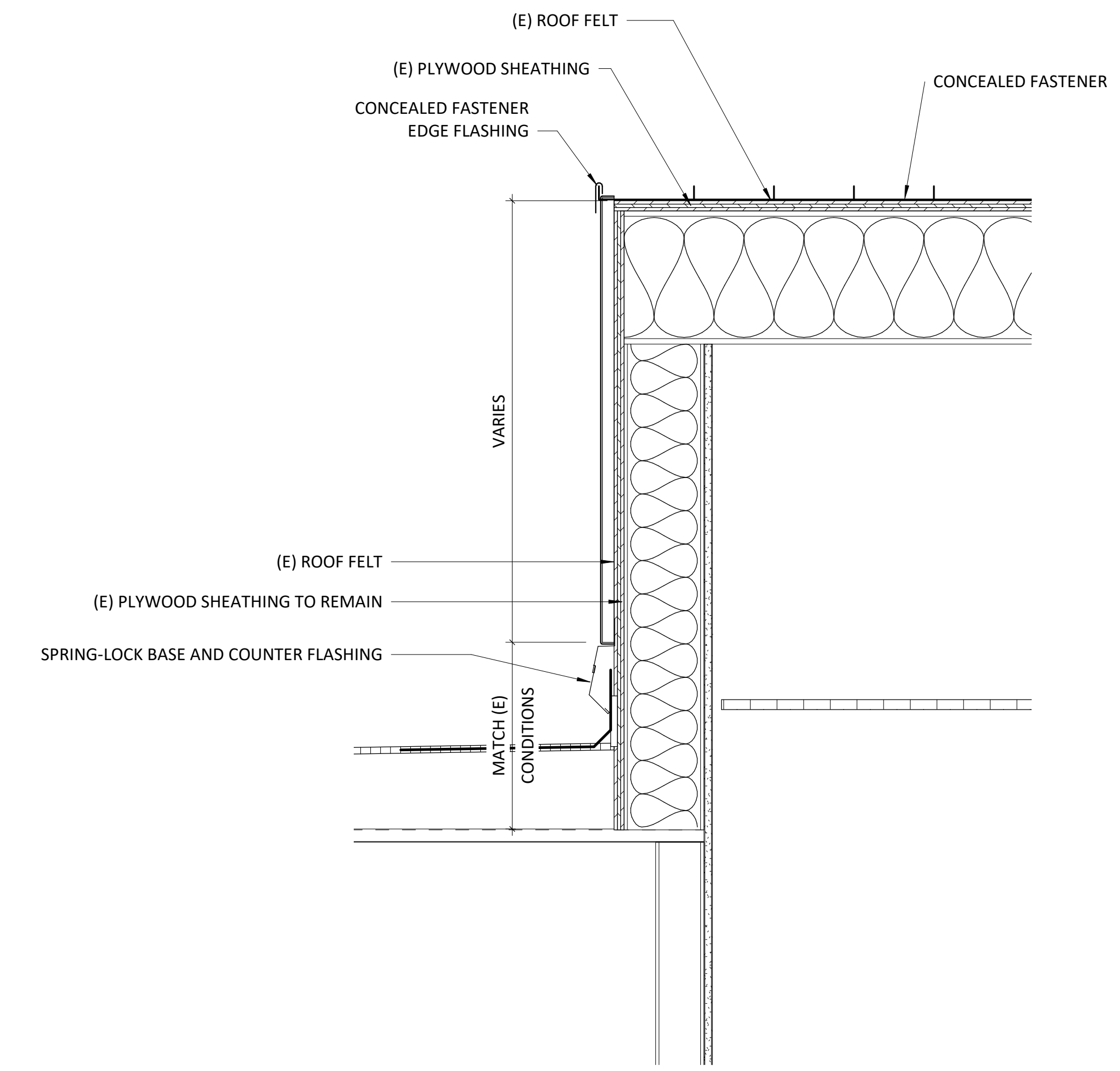
A1 ROOF PLAN
3/32" = 1'-0"

A3 TYPICAL PARAPET CAP DETAIL
1/12" = 1'-0"

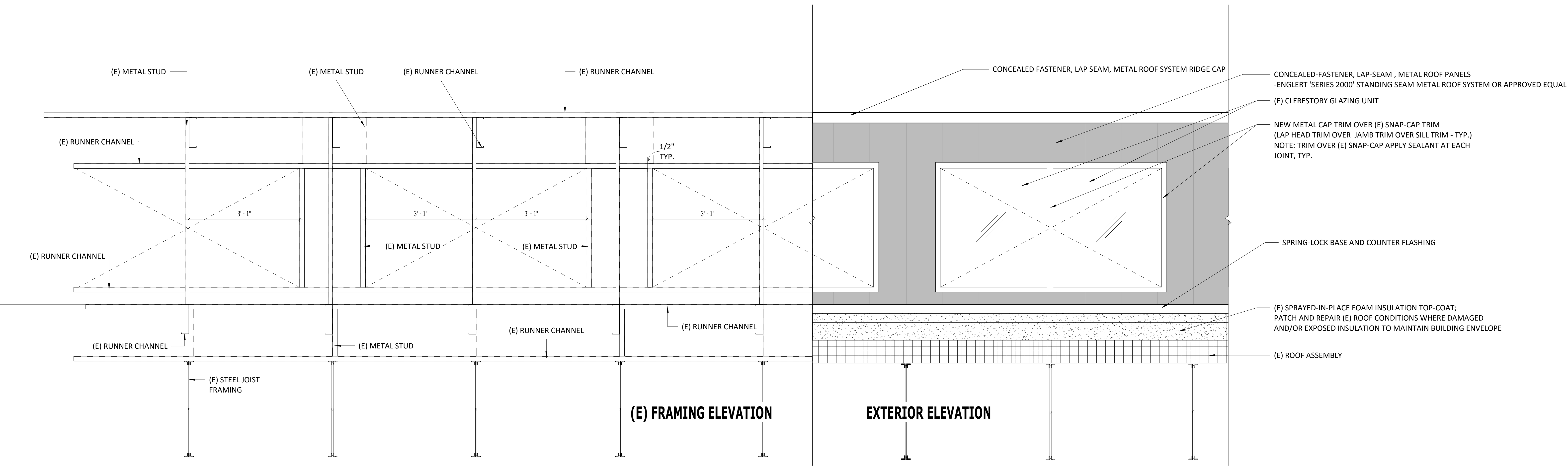
A5 ENLARGED PLAN @ TYPICAL (E) ROOF MONITOR
1/4" = 1'-0"



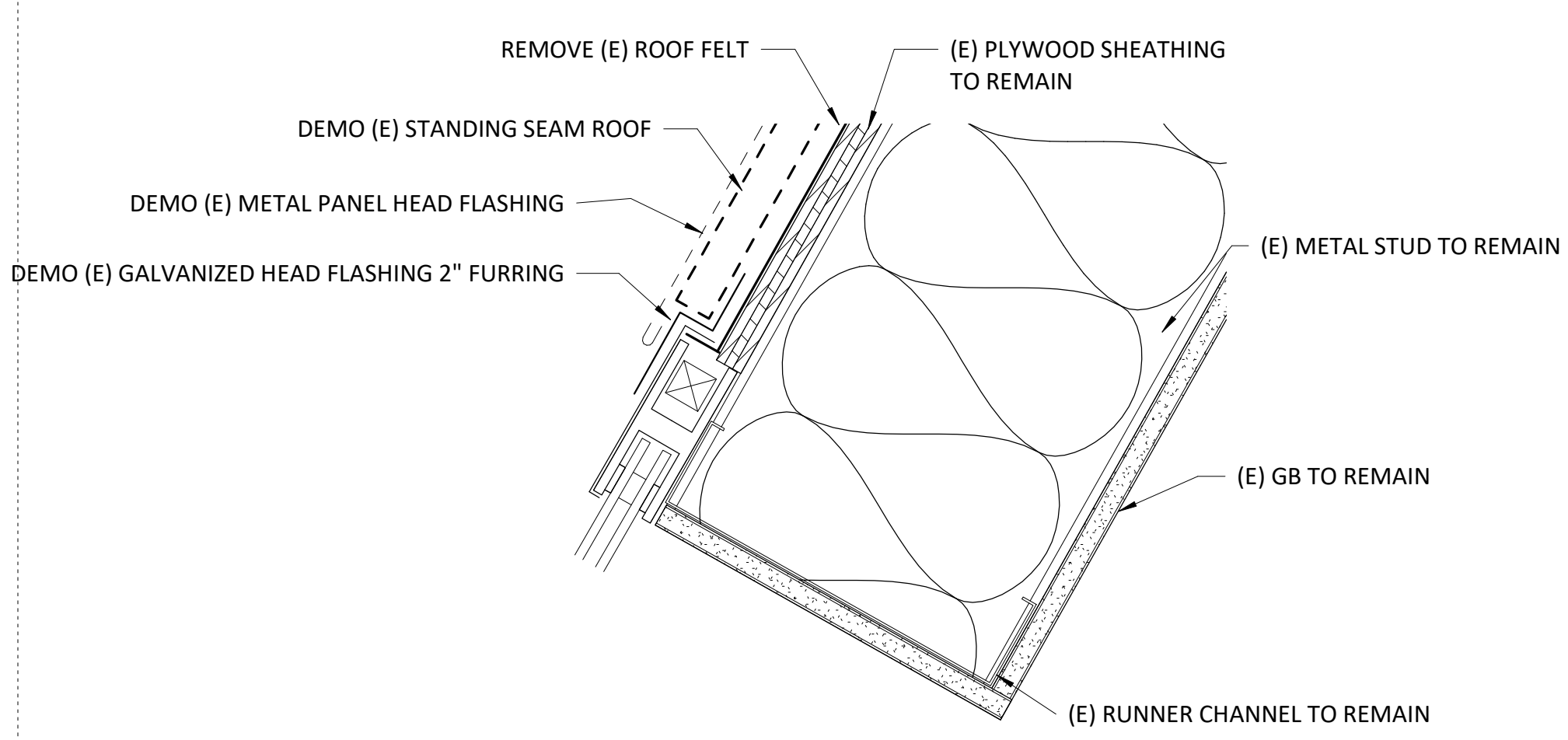
C1 (E) ROOF MONITOR SECTION
3/4" = 1'-0"



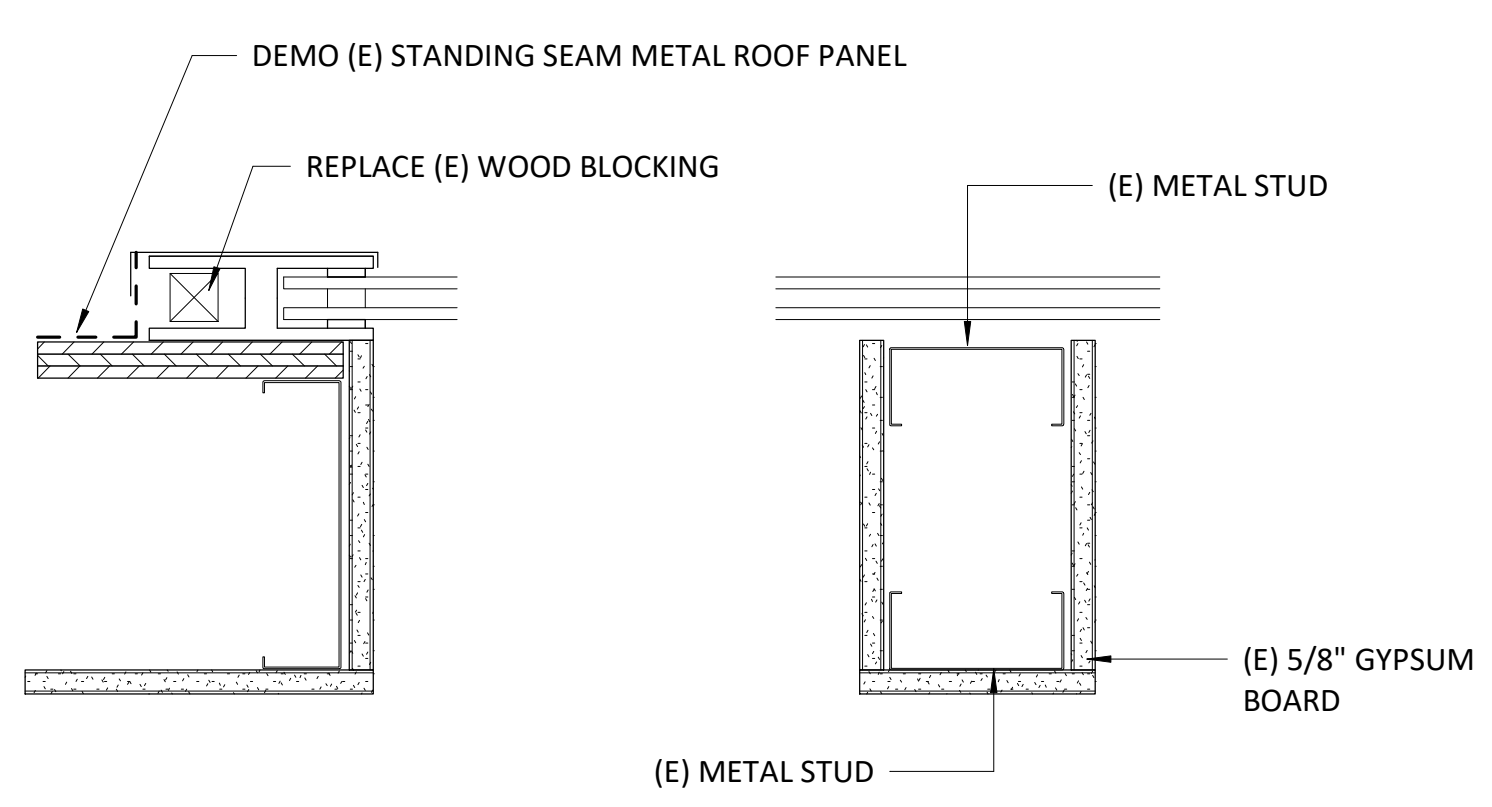
C2 (E) ROOF MONITOR END WALL
1 1/2" = 1'-0"



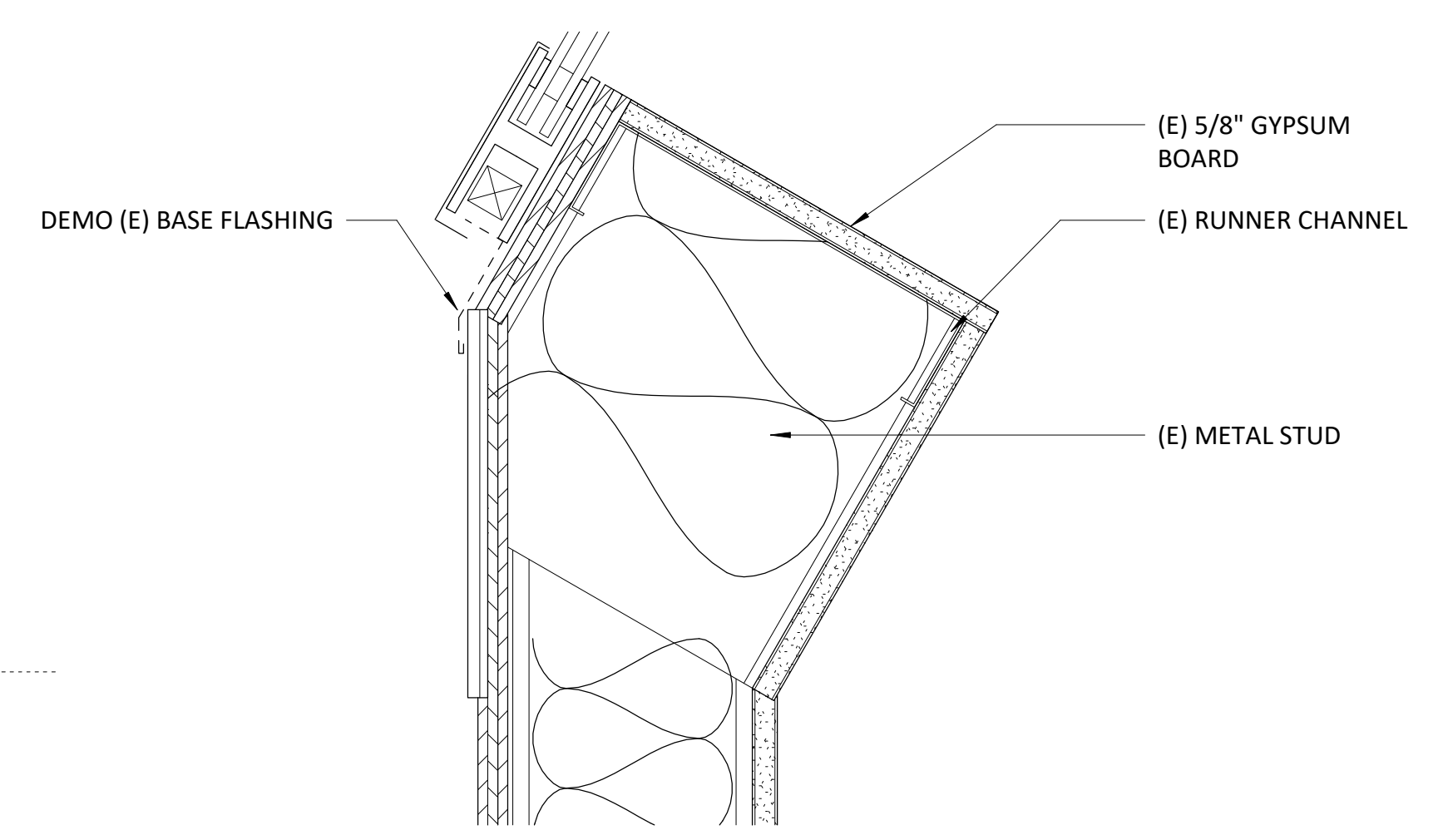
A1 ROOF MONITOR ELEVATION - GLAZING SIDE
3/4" = 1'-0"



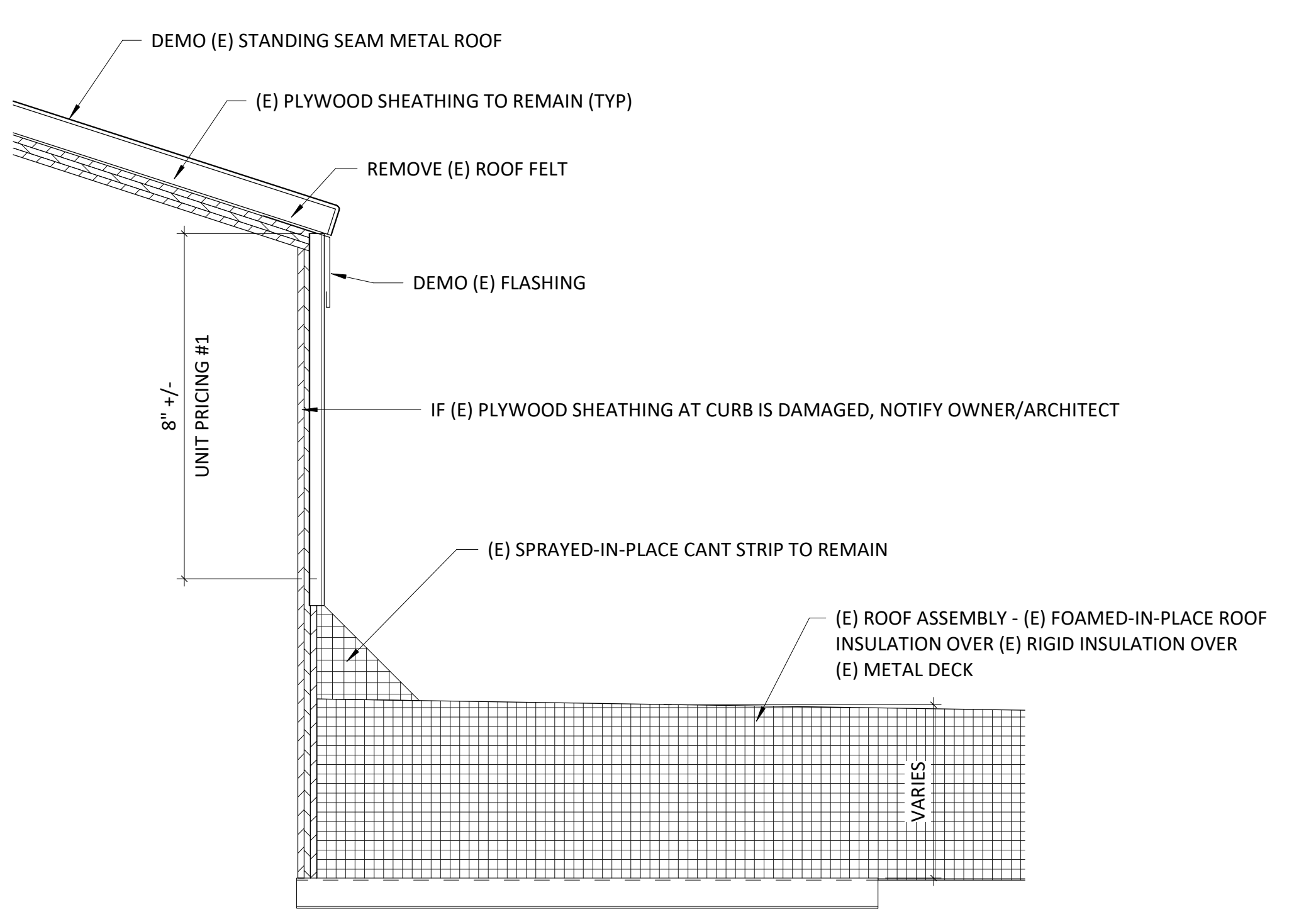
D1 DEMOLITION HEAD DETAILS
3" = 1'-0"



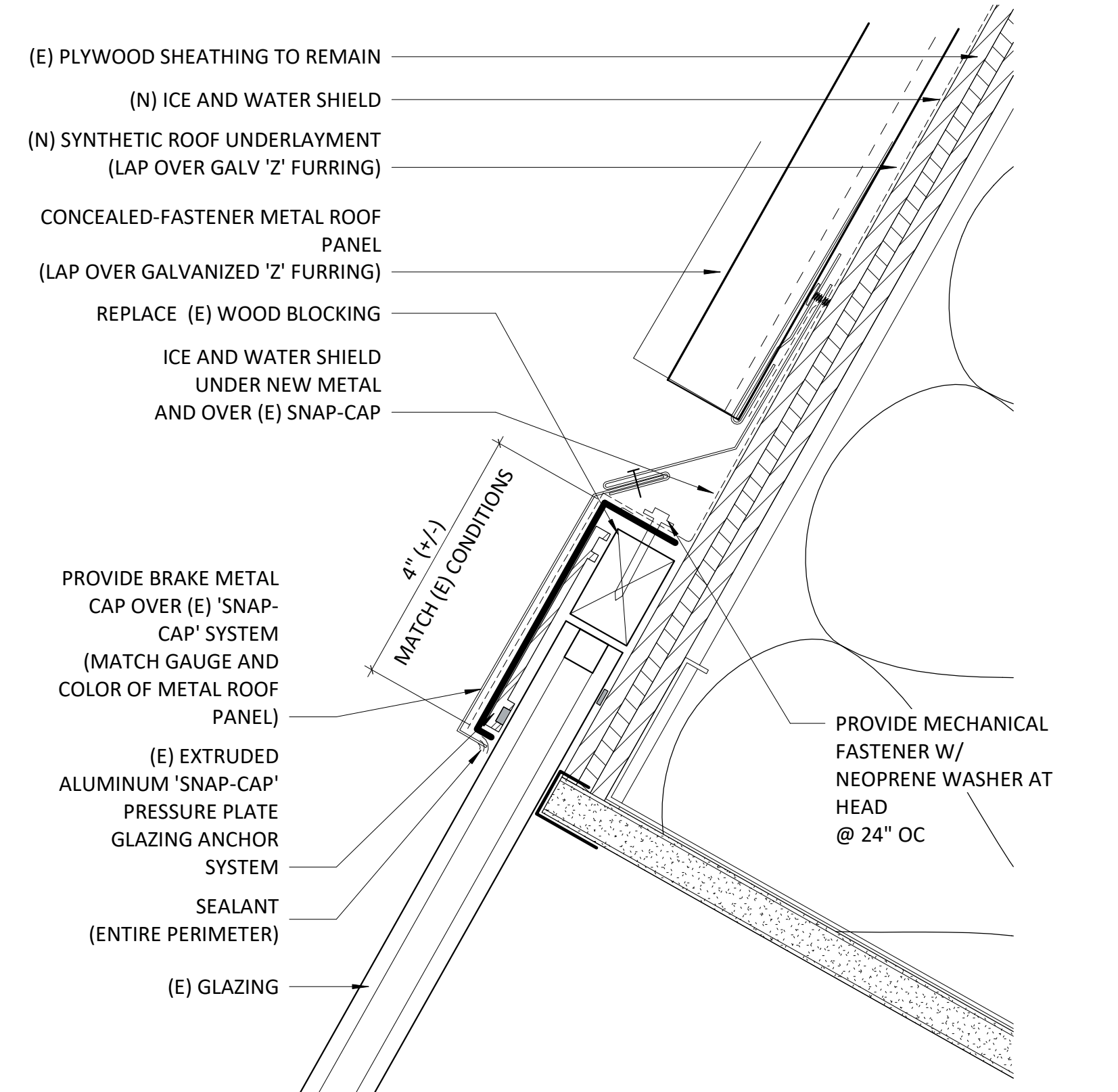
C1 DEMOLITION JAMB/MULLION DETAILS
3" = 1'-0"



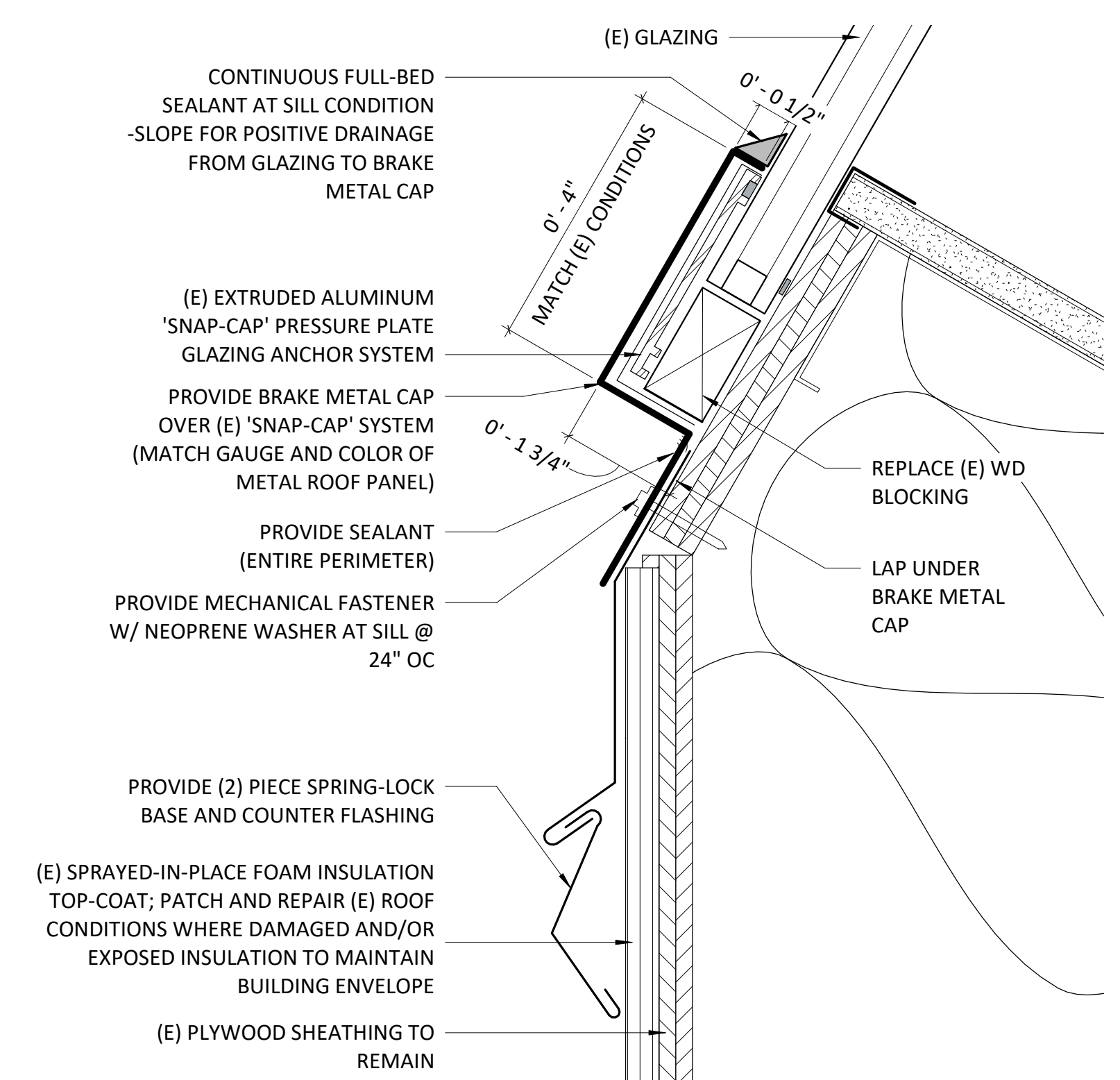
B1 DEMOLITION SILL DETAIL
3" = 1'-0"



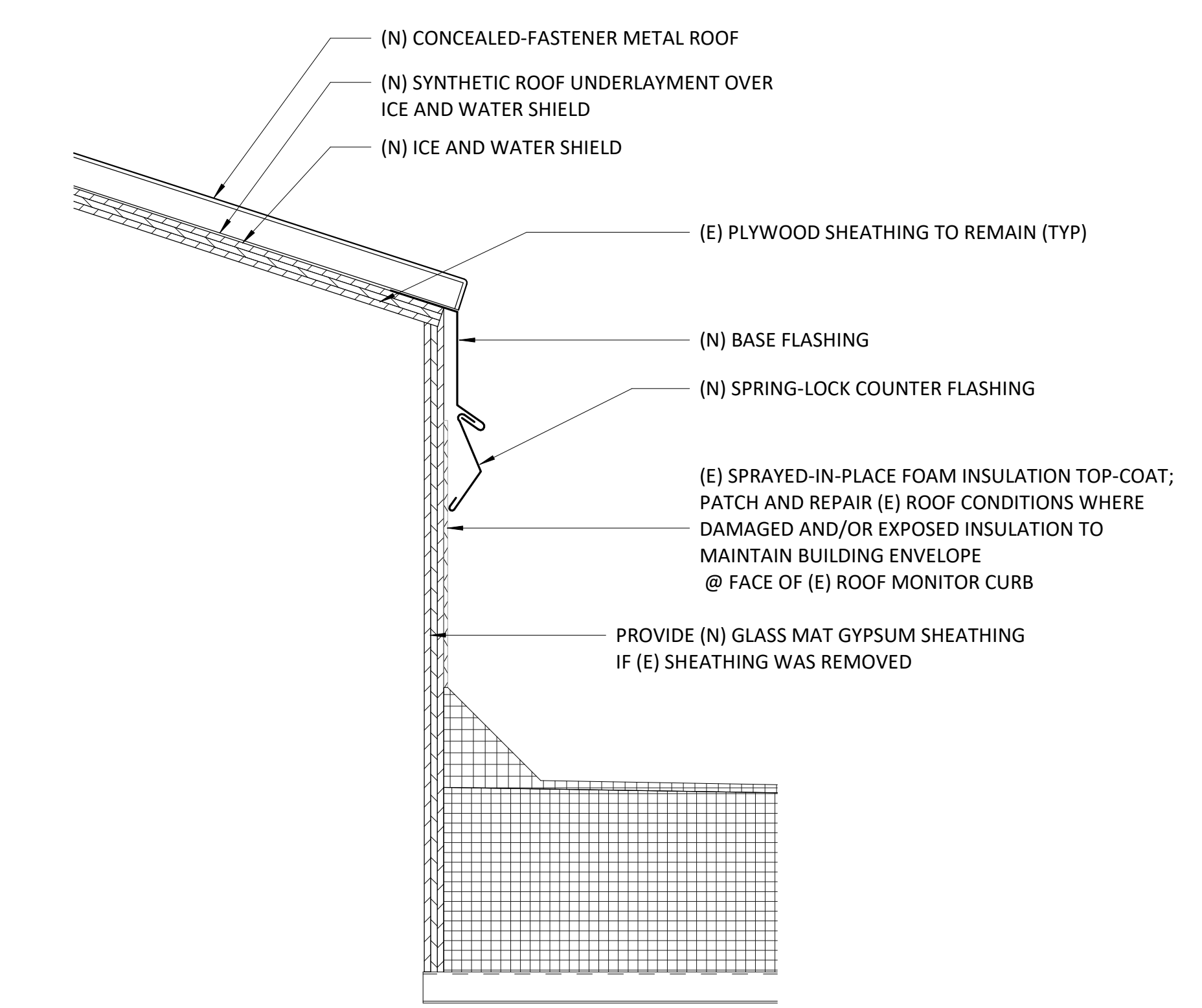
A1 DEMOLITION MONITOR FLASHING
3" = 1'-0"



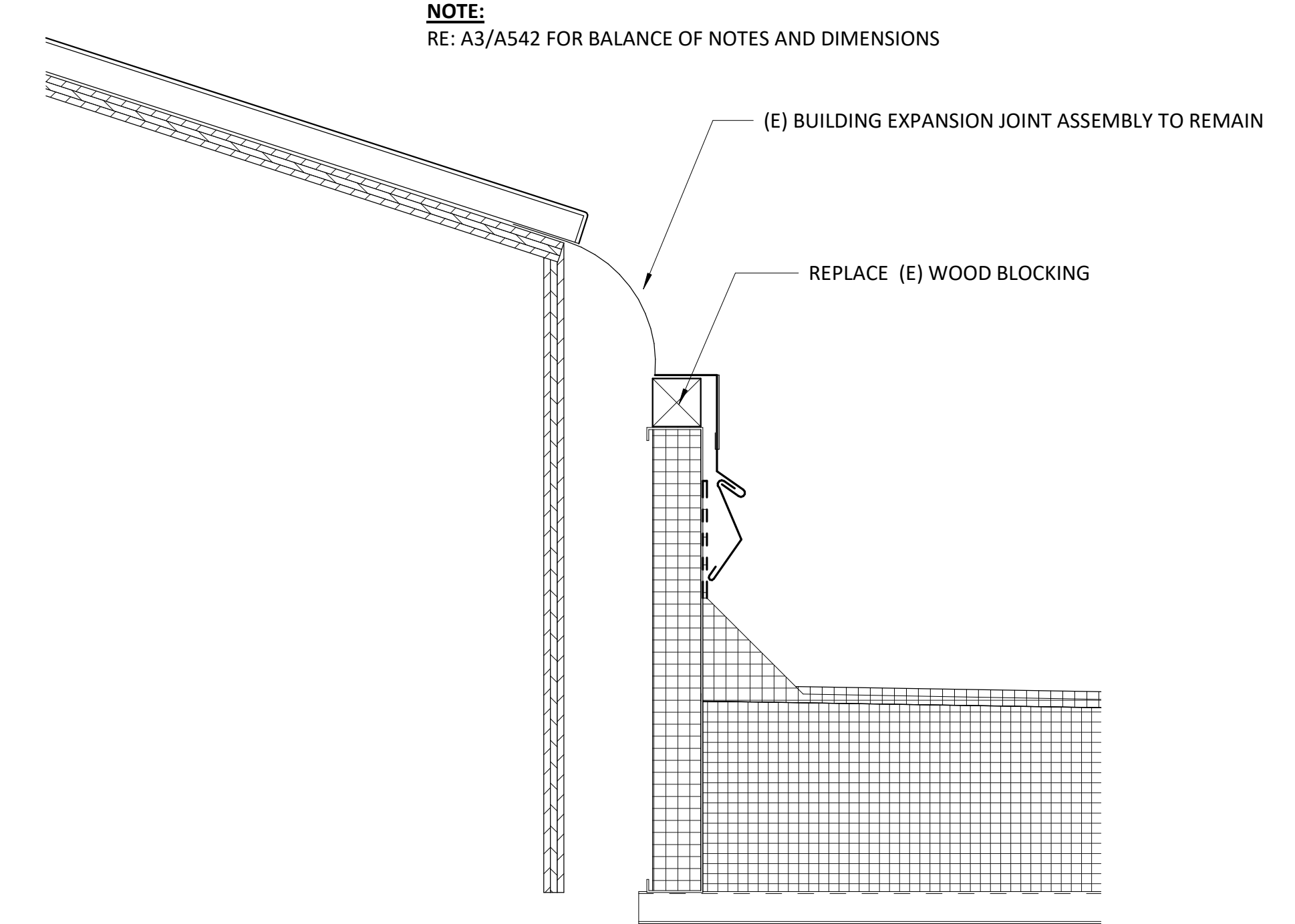
C3 HEAD DETAIL
6" = 1'-0"



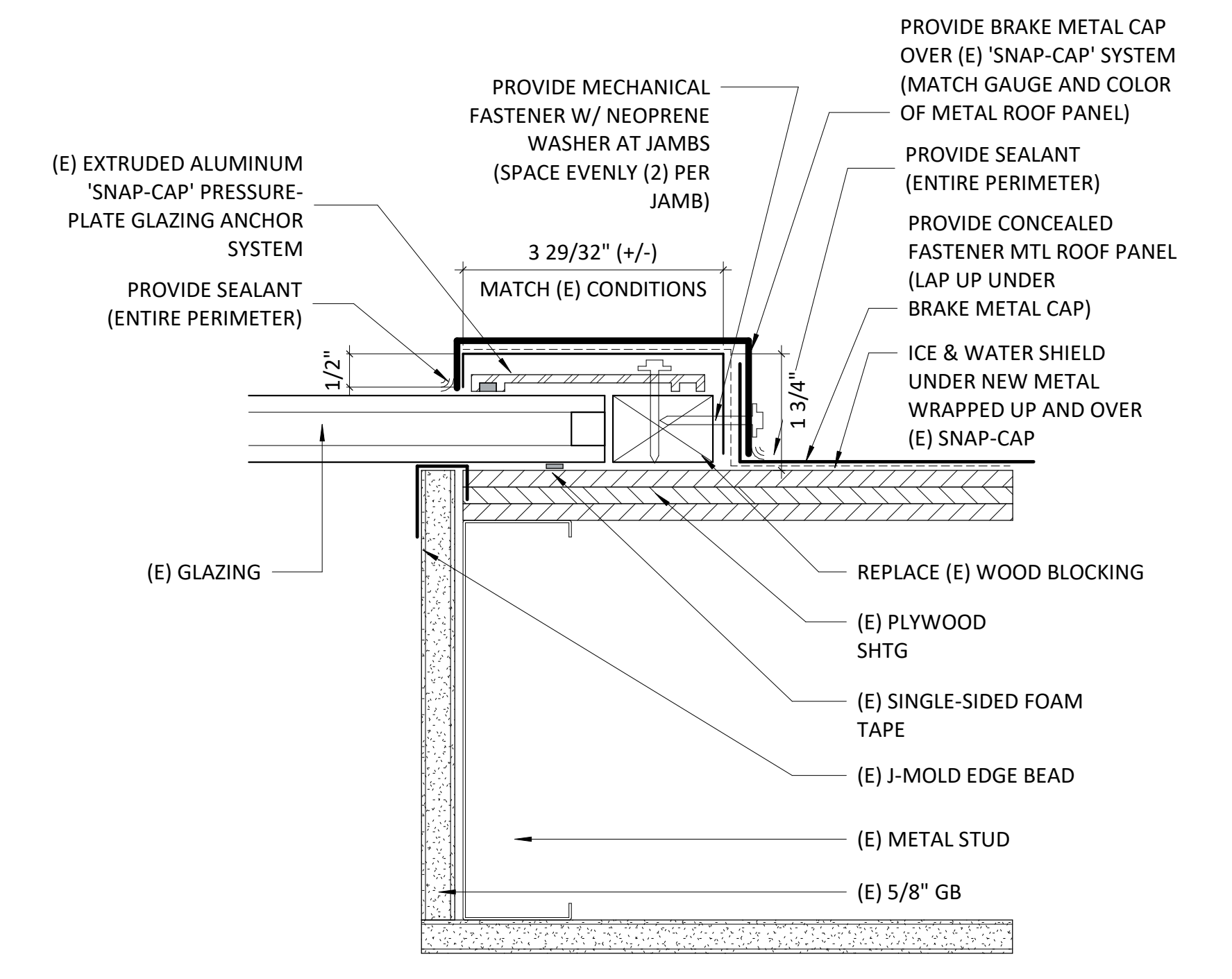
B3 SILL DETAIL
6" = 1'-0"



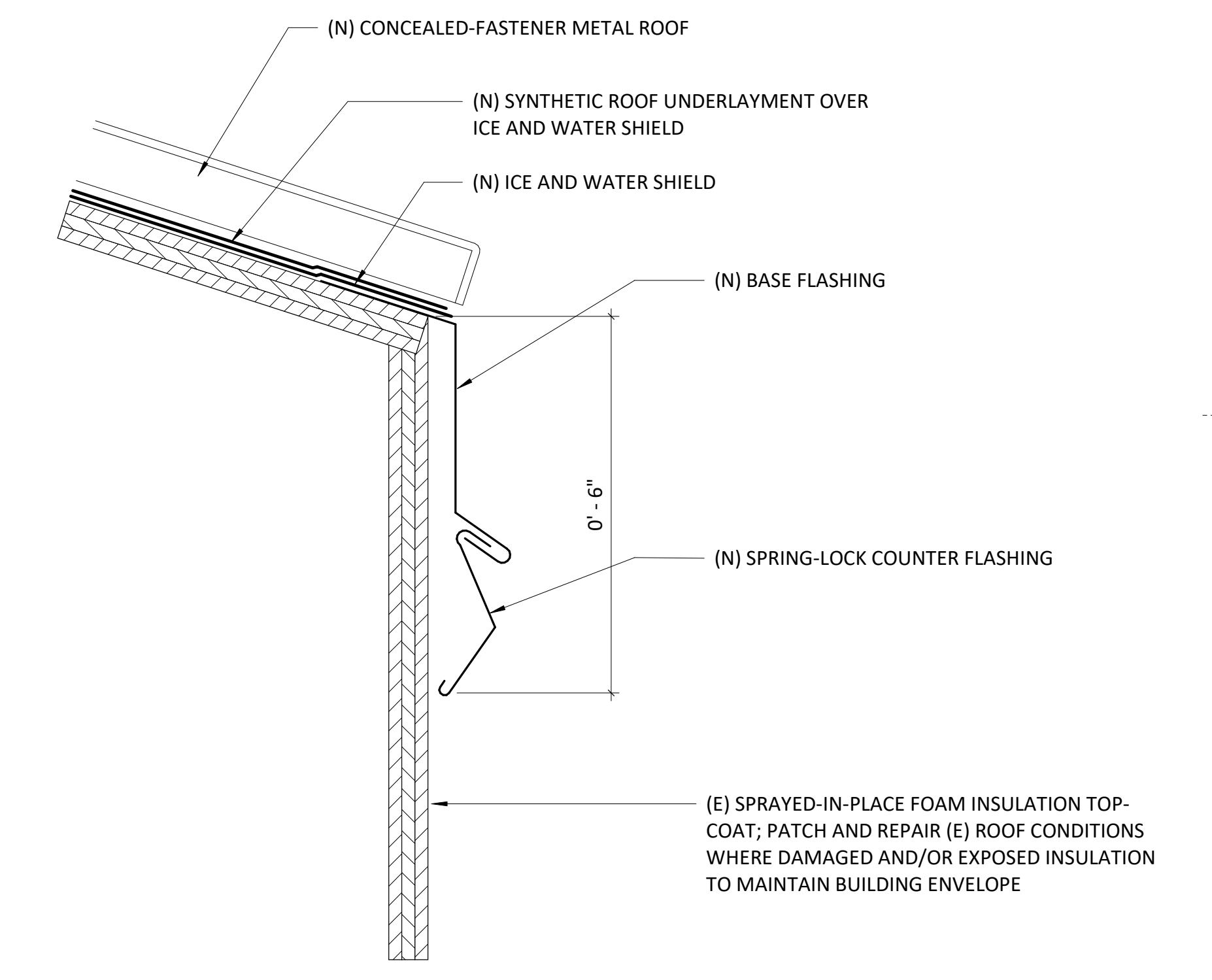
A3 MONITOR FLASHING
3" = 1'-0"



C5 EXPANSION JOINT @ MONITOR
3" = 1'-0"



B5 JAMB DETAIL
6" = 1'-0"



A5 ROOF MONITOR FLASHING DETAIL
6" = 1'-0"

AERIAL PHOTO OF SCHOOL SITE



EXISTING ROOF CONDITIONS

(E) ROOF AT PARAPET WILL NEED TO BE SAW-CUT TO REMOVE (E) PARAPET CAP



REMOVE (E), DISCARD



KRUSE ELEMENTARY SCHOOL - PRECEDENCE MONITOR DESIGN - MATCH



KRUSE ELEMENTARY SCHOOL - PARAPET CAP



KRUSE ELEMENTARY SCHOOL - BACK OF MONITOR



ARCHITECT SEAL

CONSULTANT

PROJECT PHASE

PROJECT INFORMATION

PROJECT INFORMATION

PROJECT #1907 DRAWN BY: Author CHECKED BY: Checker ISSUE DATE: 10.31.14

REVISIONS

Table with columns: NO, DESCRIPTION, DATE

EXISTING PHOTOS