BOMA

PRECISION ARCHITECTURAL PRODUCTS

ALUMINUM COMPOSITE ARCHITECTURAL PANELS

BACK VENTILATED AND PRESSURE EQUALIZED SYSTEM DETAILS

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BVT-5000 and PEQ-5000 Rainscreen Systems

Our family of BVT-5000 (drained and back ventilated) and PEQ-5000 (pressure equalized) ACM rainscreen systems are built with your choice of Aluminum Composite materials, providing exceptional water shedding performance.

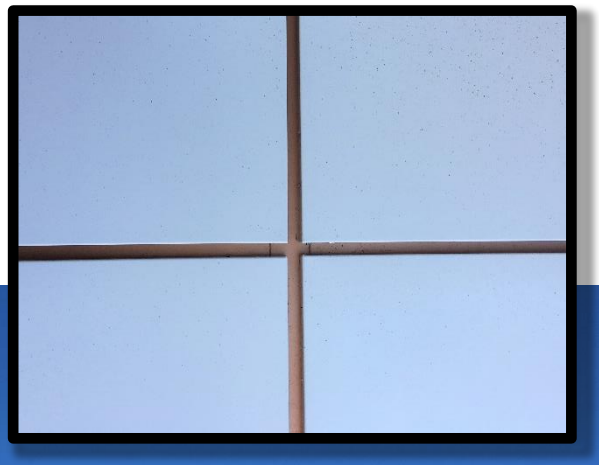
With a meticulous attention to detail in mind, all panels are CAD designed, CNC fabricated, and offer the clean, crisp look that only a dry joint system can offer.

Available in a wide variety of standard and custom colors from popular brands such as Alpolic, Reynobond, Larson, Alcotex and or even AL-13; BOMA is also able to offer our customers custom colors and wood grain finishes.

These panels are fabricated to bring your artistic vision into full clarity.

Features of all systems include:

- Standard reveals have dimensional depth of 1” and width of 1/2”. Optional deeper and wider reveals are easily accommodated.
- Choose to color match your reveals to the panels, or select an optional secondary color to add striking contrast
- Considered for applications where dry joint assembly (no caulking) is required
- CAD design
- CNC fabrication
- Pre-drilled mounting clips
- 3mm, 4mm or 6mm sheet construction



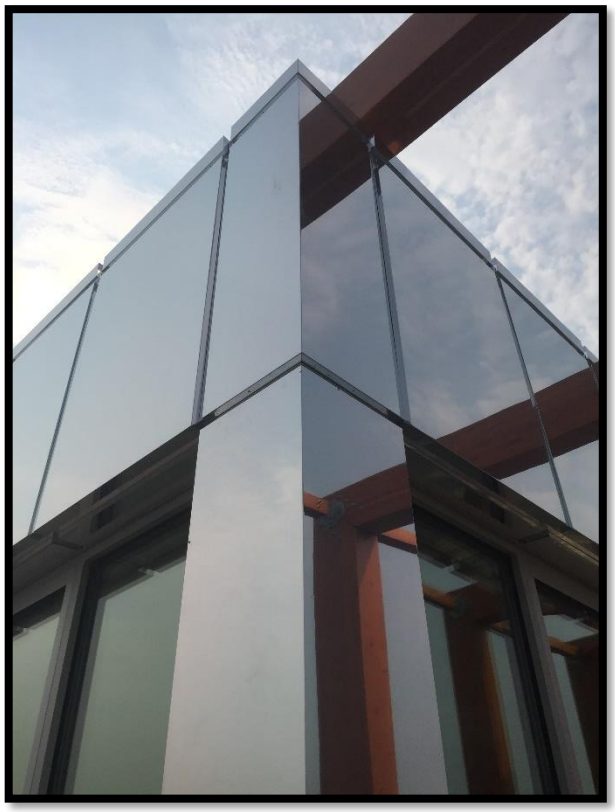
Which system to choose?

The choice is yours. Both BVT-5000 and PEQ-5000 systems are superior rainscreen systems, and are designed with open joinery. As such, some water will make its way behind the panel as the system is not designed to act as a water/vapor barrier for the building.

The two systems have critical differences in their designs to minimize and deal with water penetration.

- BOMA BVT-5000 series panels rely on a ventilation cavity that will both drain and dry-out any residual water that accumulates as a result of wind, pressure differentials, condensation, etc.

- BOMA PEQ-5000 series panels are each individually sealed and perform as unique, drainable compartments that facilitate rapid pressure equalization. Water penetration behind the panel system is greatly minimized and isolated to panel zones.



A variety of finishing techniques offered

BVT-5000 is available in 3 distinct versions, providing customers with a choice of finishing details to suit their project requirements.

BVT-5000 (Standard)

- This panel is finished with a standard, simple corner and visible rivets inside the reveal returns.
- The most cost-effective solution in the BVT-5000 family, this is the industry standard for ACM panel design.

BVT-5000PZ (Puzzle Lock) *

- This panel is finished with a unique puzzle lock corner and visible rivets inside the reveals.
- This is an attractive option for those concerned with corner splay. The puzzle lock system ensures corners are held tightly together and reduces the possibility of water ingress at the panel corners.

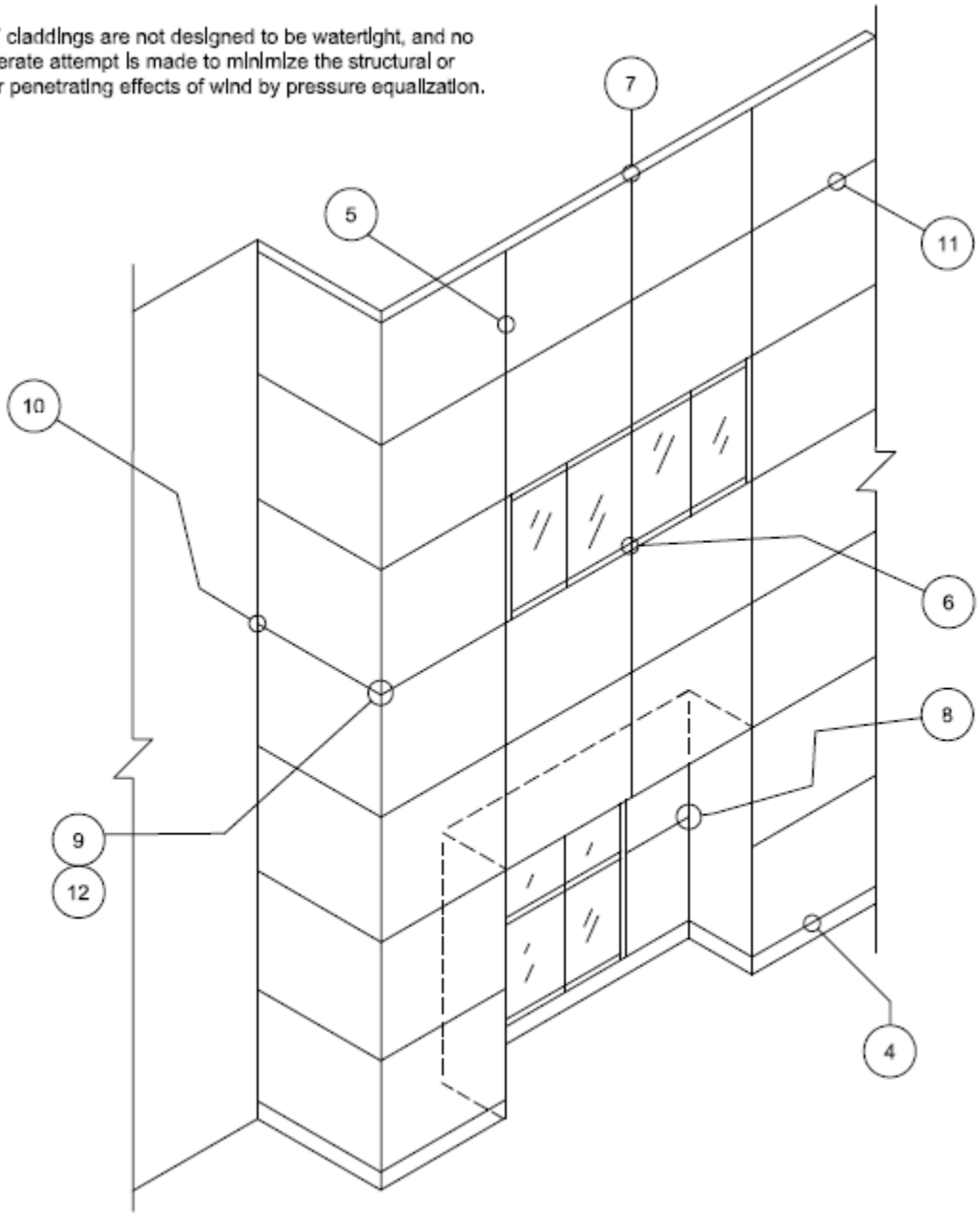
BVT-5000HR (Hidden Rivet) *

- This panel offers up the finest ACM panel reveal treatments available. Unlike traditional ACM systems, the *BVT-5000HR* system has absolutely no visible attachments, including rivets. The reveal is completely free and clear of any fasteners and provides an aesthetically pleasing finish unrivalled by any other ACM system available in the market today.
- Designed specifically for residential and high-end commercial applications.
- This is an attractive option for those:
    - seeking wide reveals, where all sides of the panels are easily visible from all angles
    - working with highly reflective ACM finishes (such as mirror finish or high gloss) where the rivets will reflect in the surface.
    - looking to install panels on residential applications where fit and finish is often held to a higher standard by the home-owner for unsightly fasteners of any type.

**premium charge may apply*

Elevation Details

D/BV claddings are not designed to be watertight, and no deliberate attempt is made to minimize the structural or water penetrating effects of wind by pressure equalization.



GENERAL DETAILS

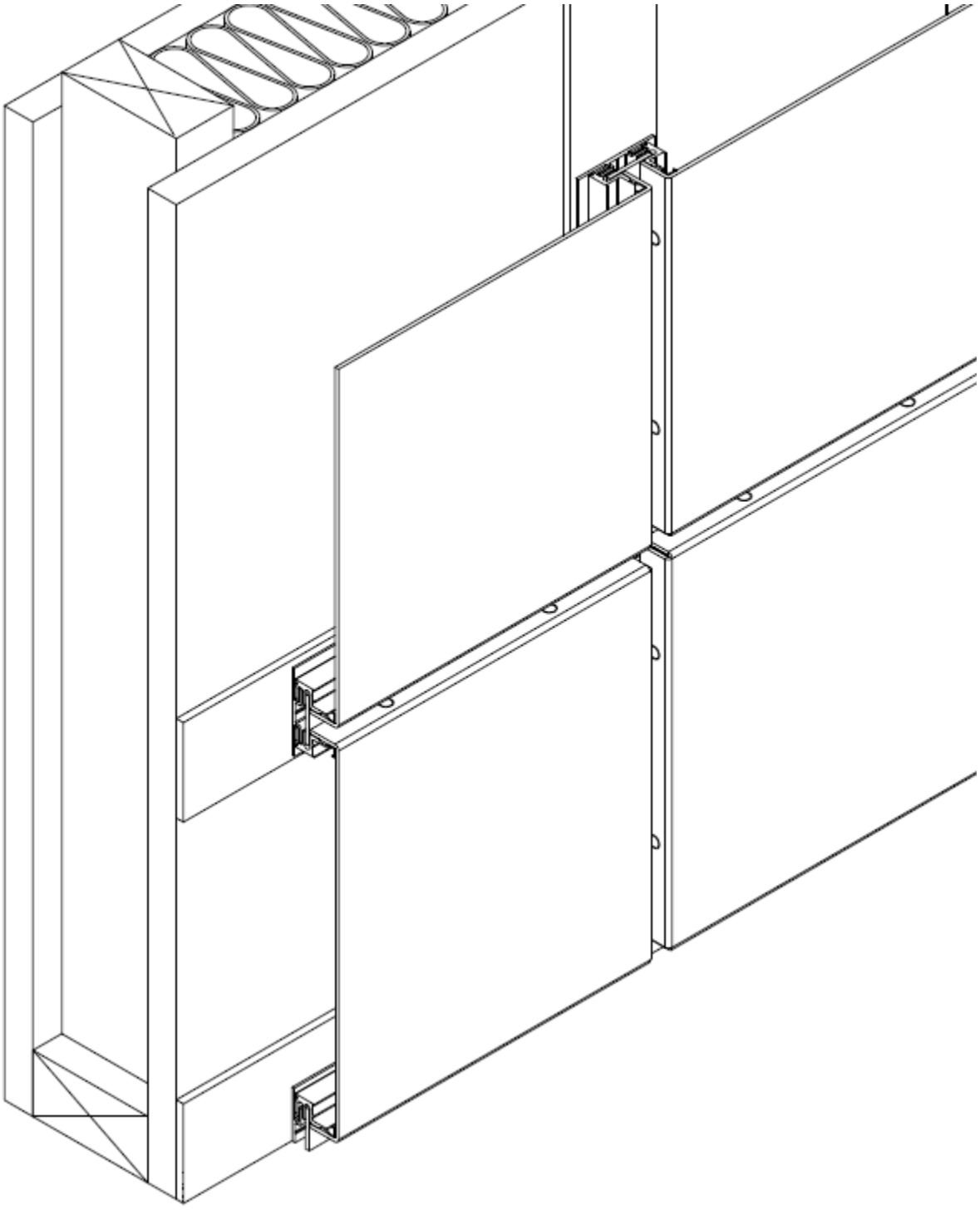
2: SYSTEM ISOMETRIC
3: ATTACHMENT EXTRUSIONS

SECTION DETAILS

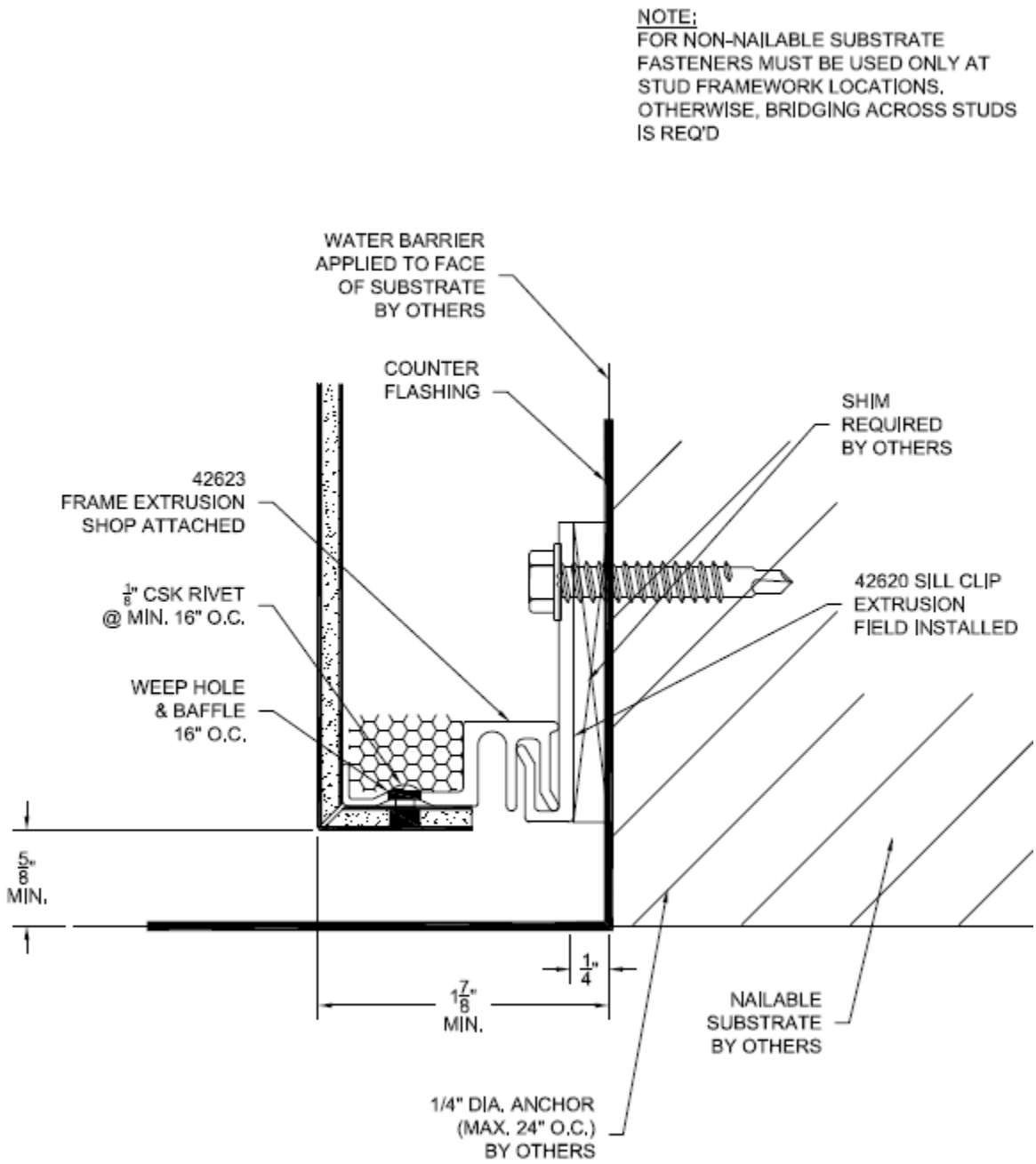
4: BASE / FOUNDATION
5A - B: TYPICAL VERTICAL
6: DISSIMILAR MATERIAL

7A - B: PARAPET
8: INSIDE CORNER
9: OUTSIDE CORNER
10: CURVED SECTION
11. TYPICAL HORIZONTAL

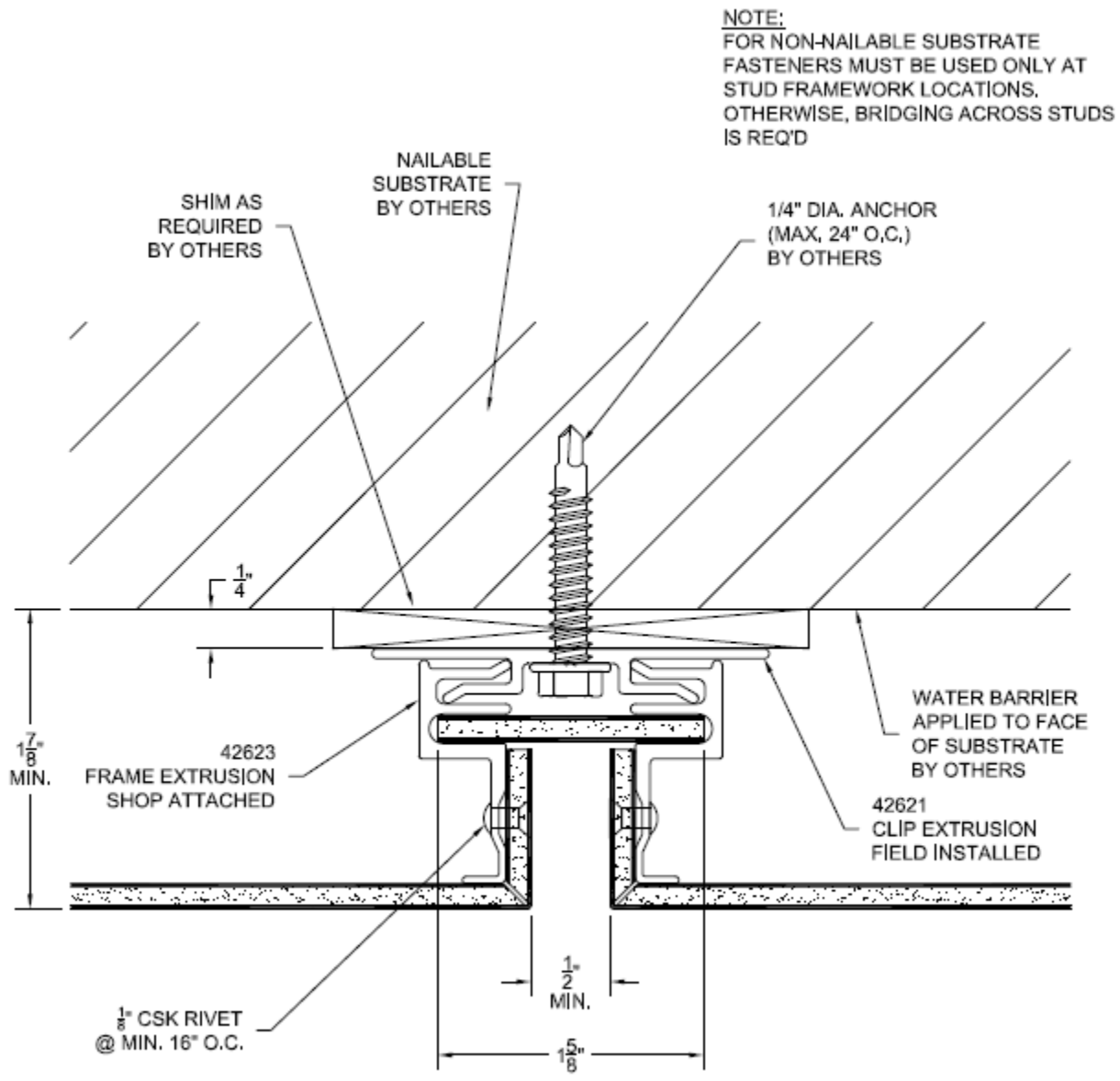
System Isometric View



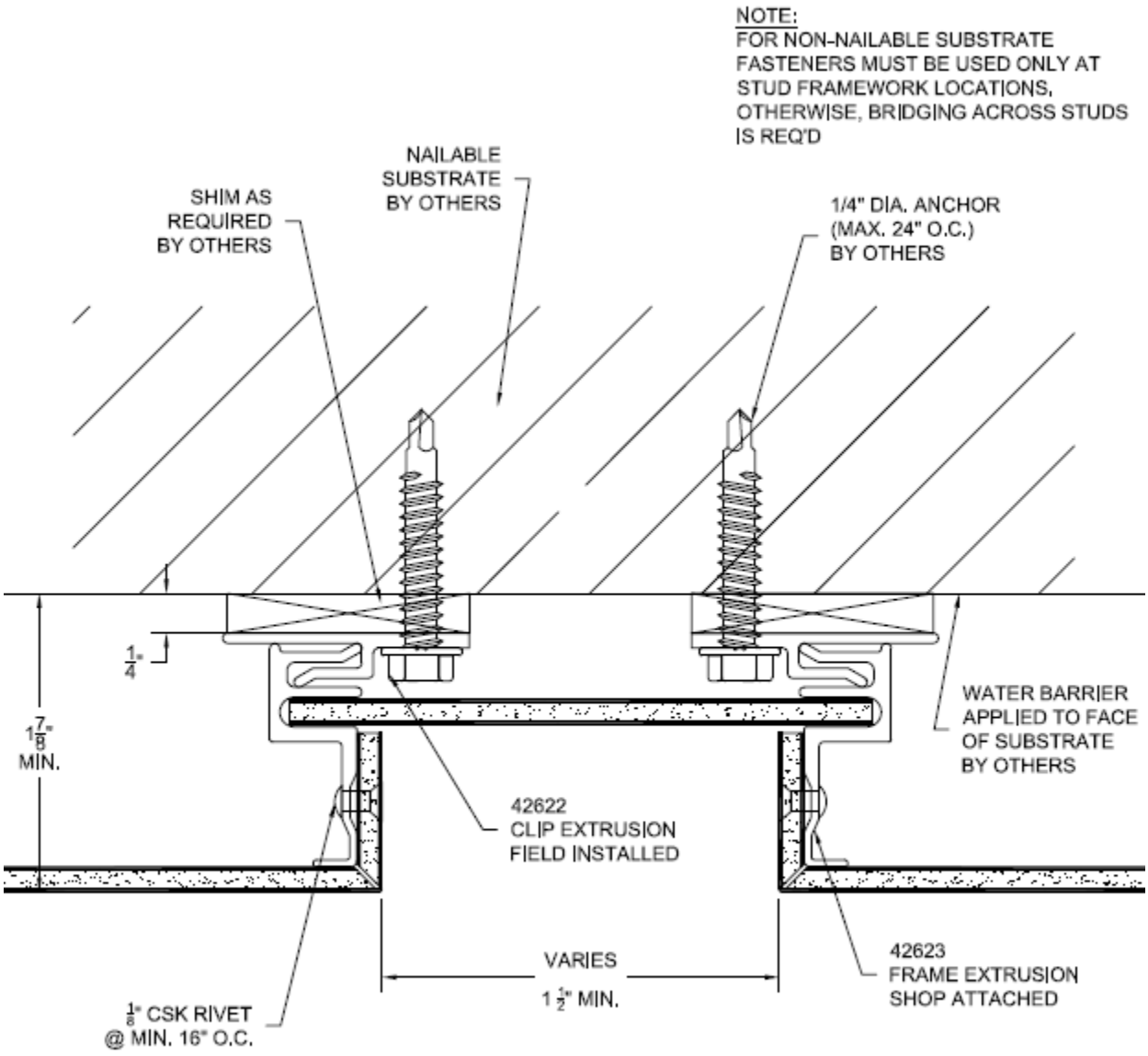
Base Detail


NOTE;
FOR NON-NAILABLE SUBSTRATE FASTENERS MUST BE USED ONLY AT STUD FRAMEWORK LOCATIONS. OTHERWISE, BRIDGING ACROSS STUDS IS REQ'D
WATER BARRIER APPLIED TO FACE OF SUBSTRATE BY OTHERS
COUNTER FLASHING
SHIM REQUIRED BY OTHERS
42623 FRAME EXTRUSION SHOP ATTACHED
1/8" CSK RIVET @ MIN. 16" O.C.
42620 SILL CLIP EXTRUSION FIELD INSTALLED
WEEP HOLE & BAFFLE 16" O.C.
5/8" MIN.
1/4"
1 7/8" MIN.
NAILABLE SUBSTRATE BY OTHERS
1/4" DIA. ANCHOR (MAX. 24" O.C.) BY OTHERS

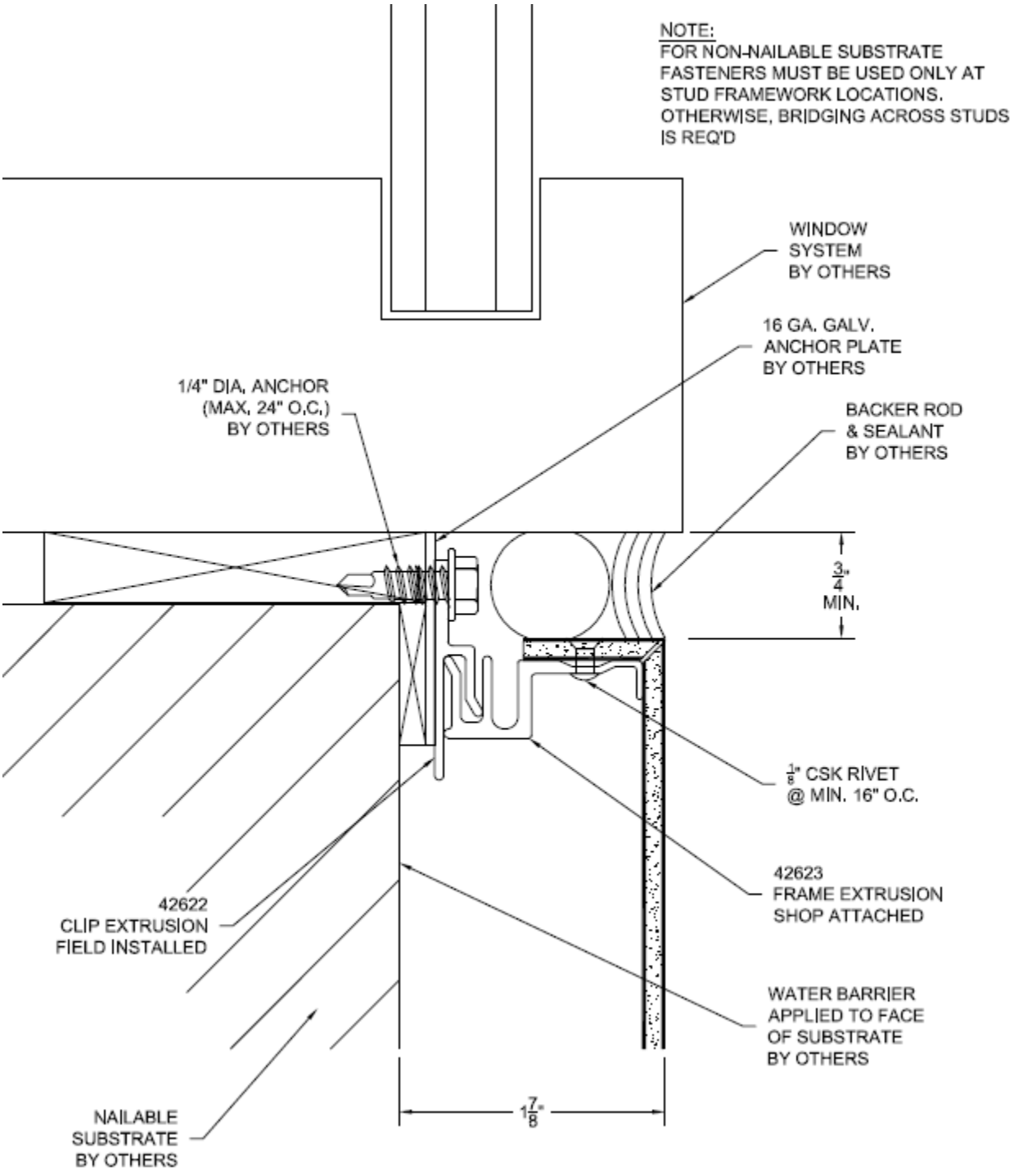
Typical Vertical Detail



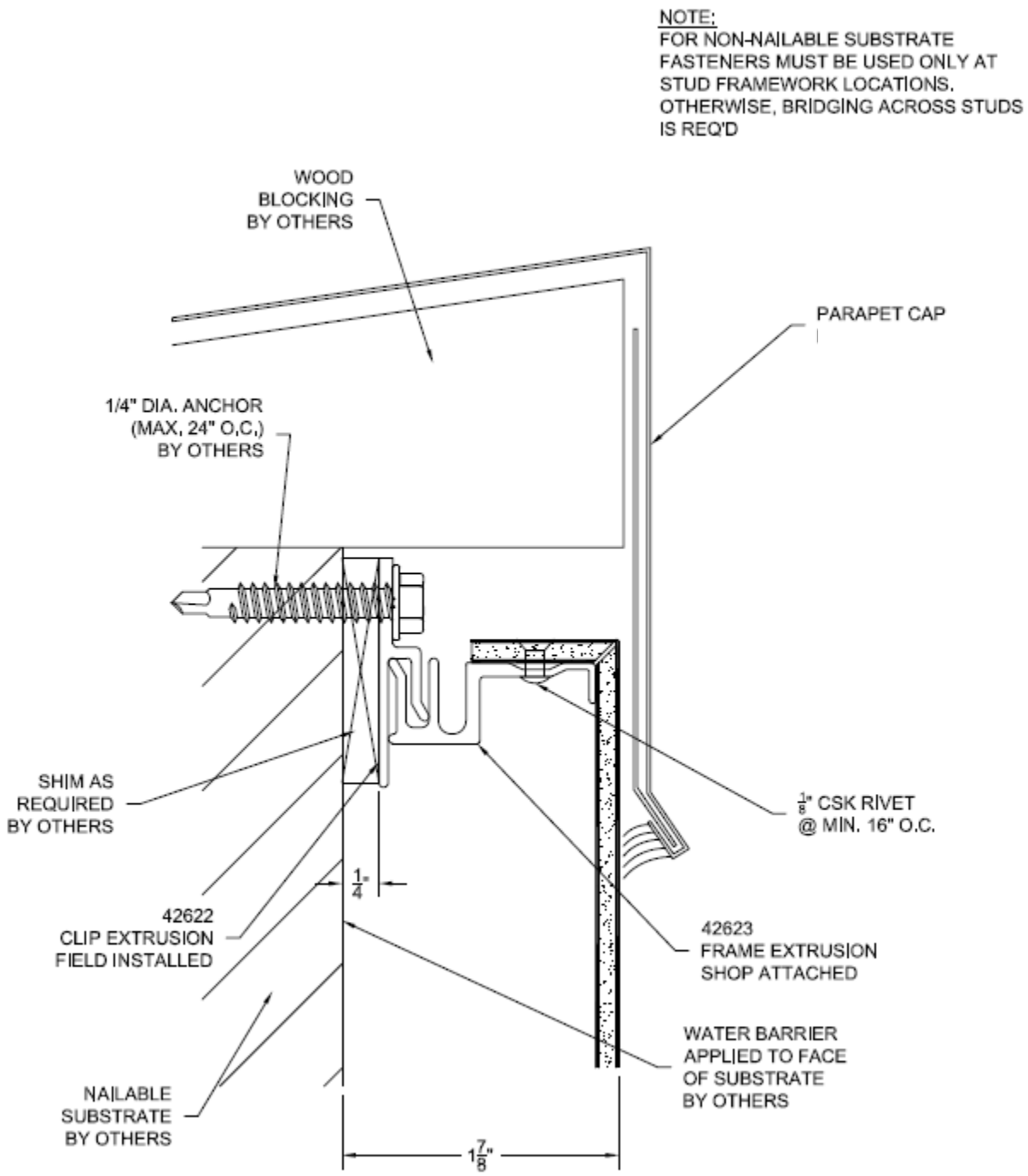
Alternate Vertical Detail



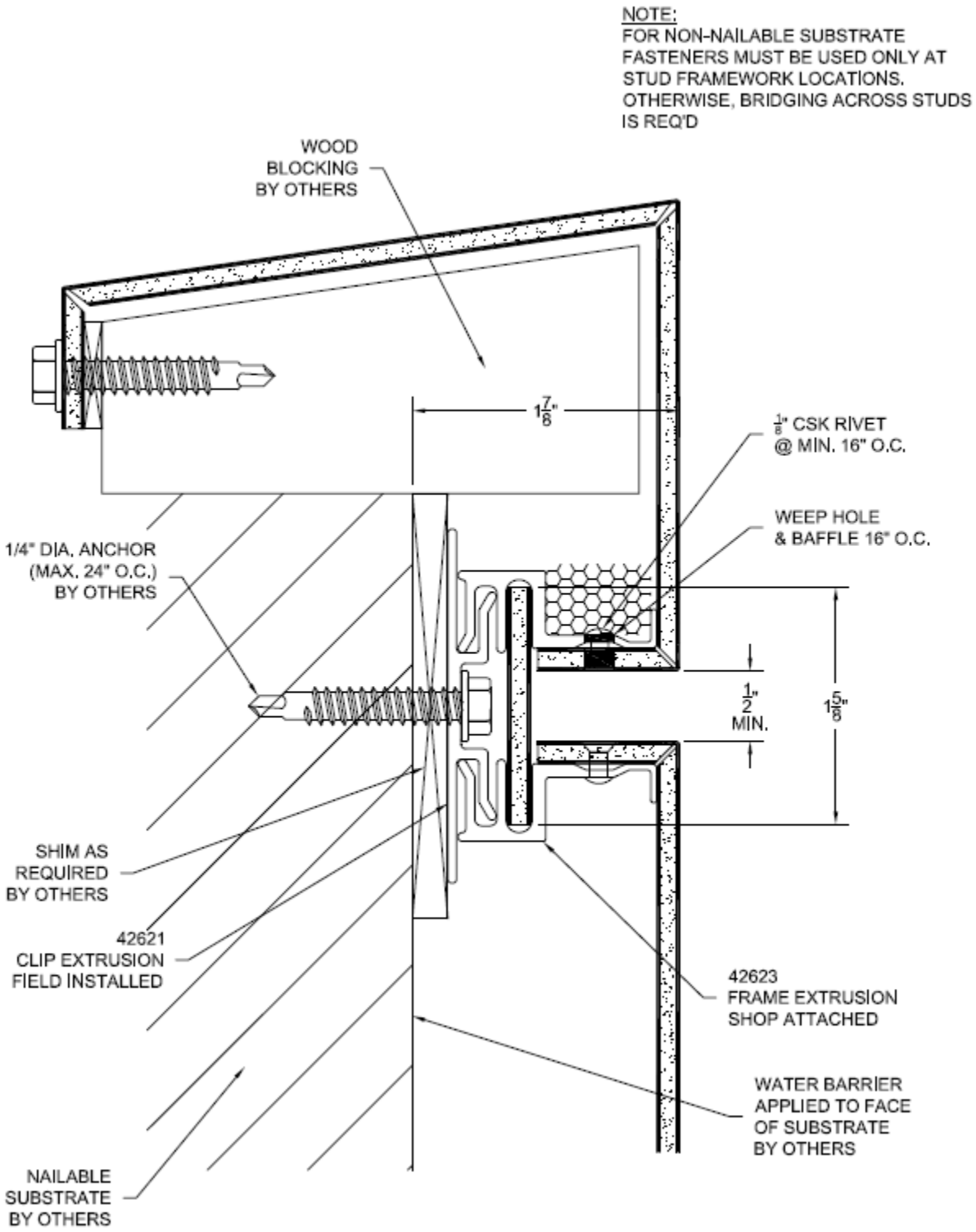
Dissimilar Metals



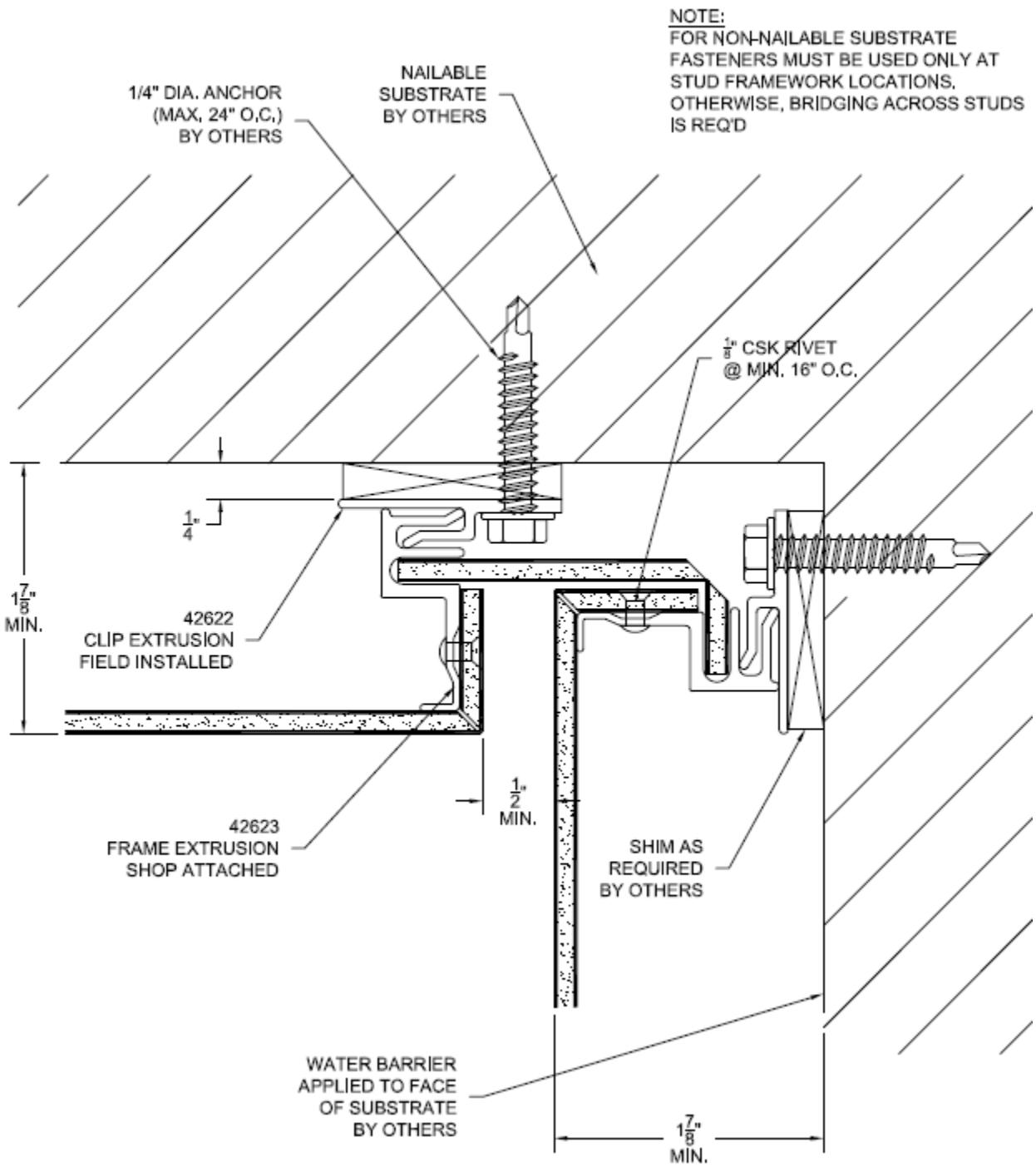
Typical Parapet



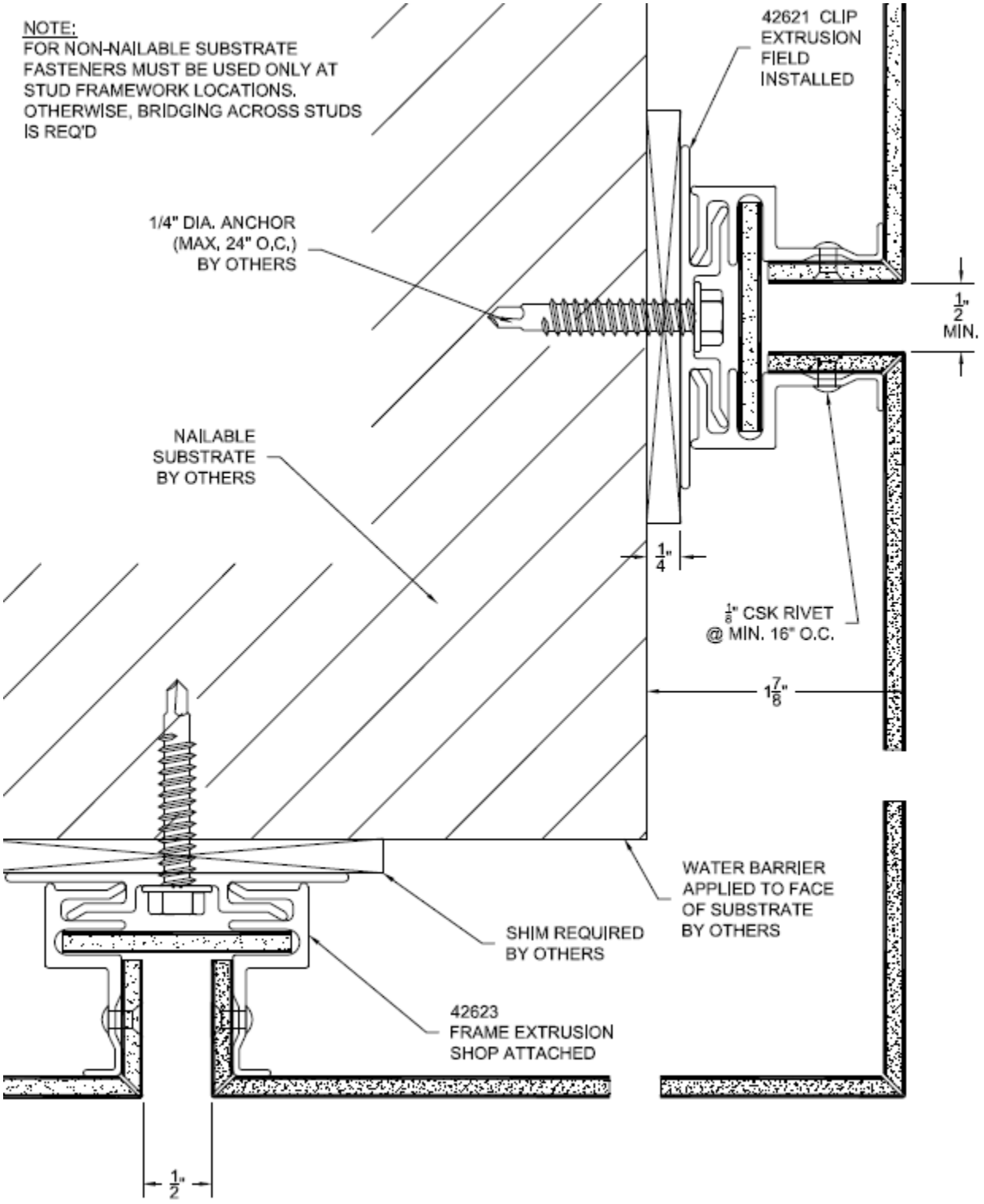
Optional Parapet



Inside Corner Detail



Outside Corner Detail



Jamb Detail

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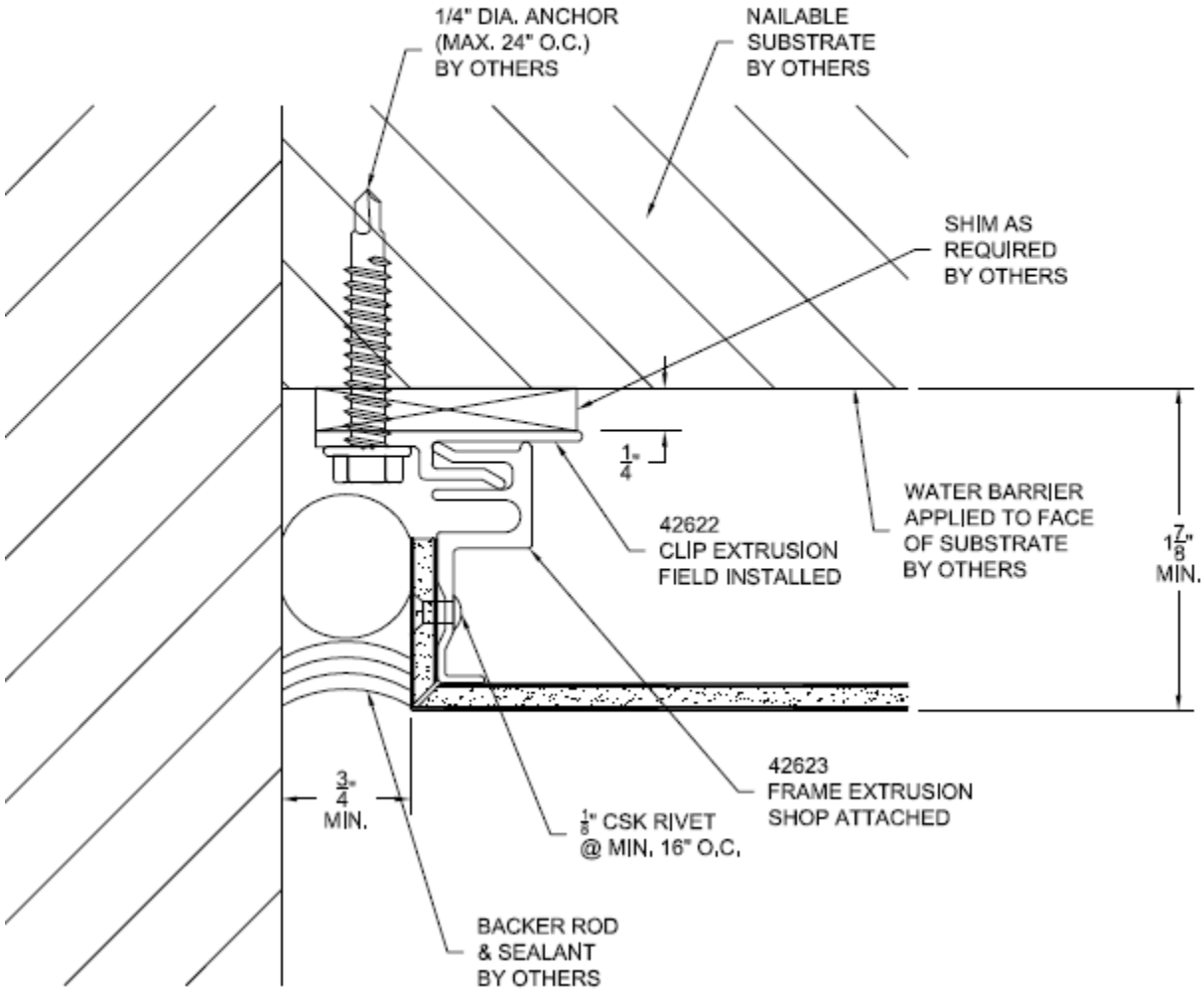
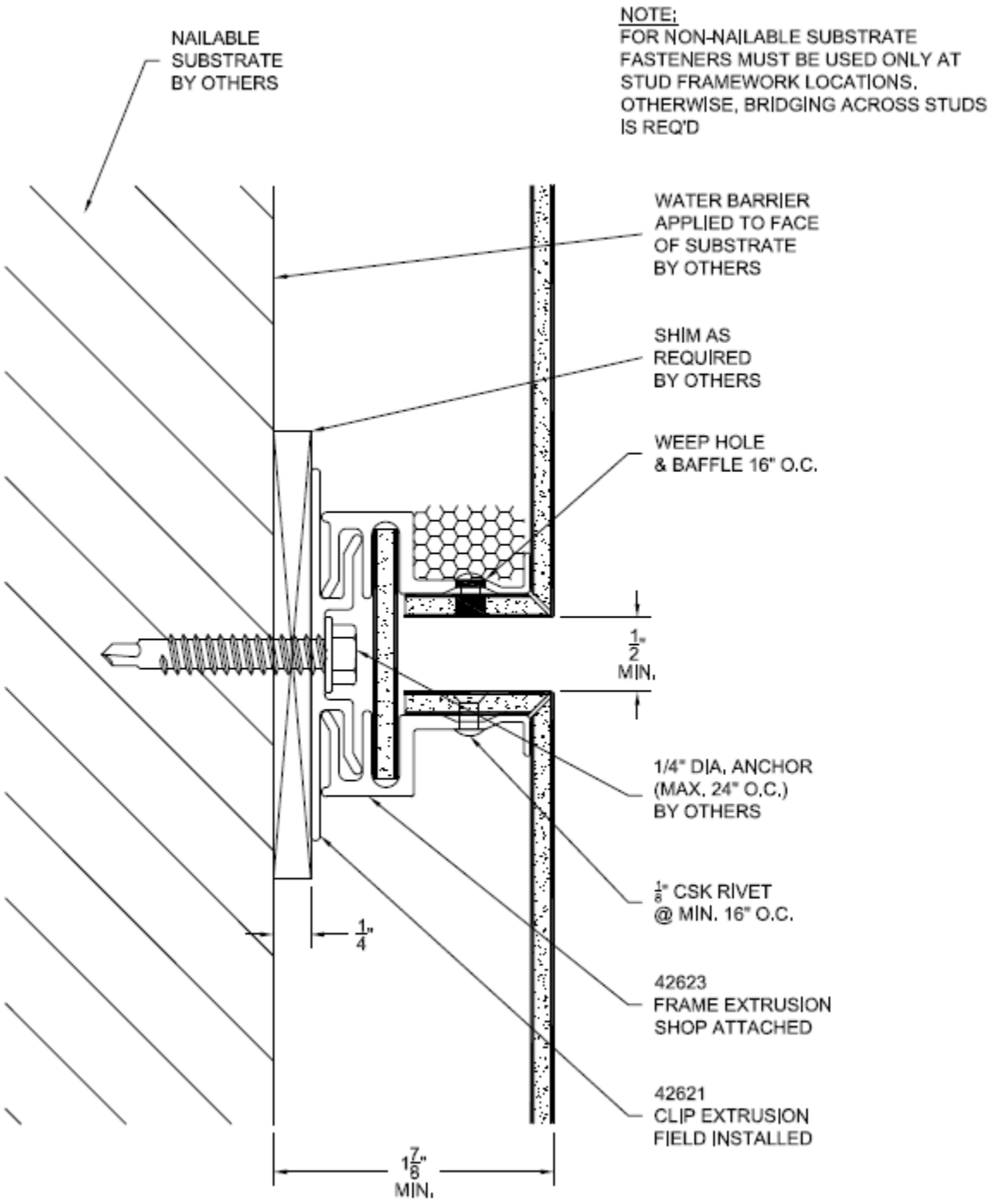
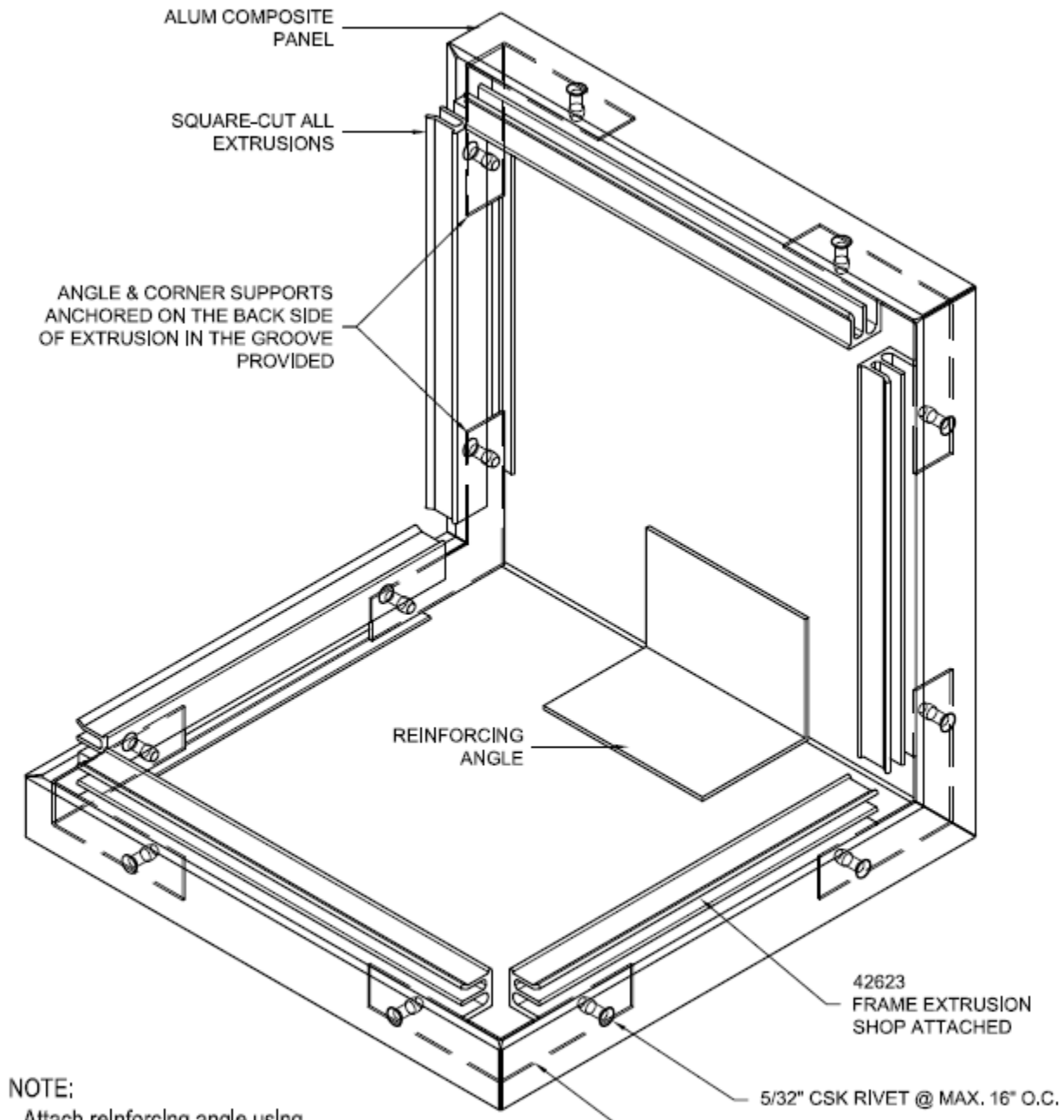


Typical Horizontal Detail

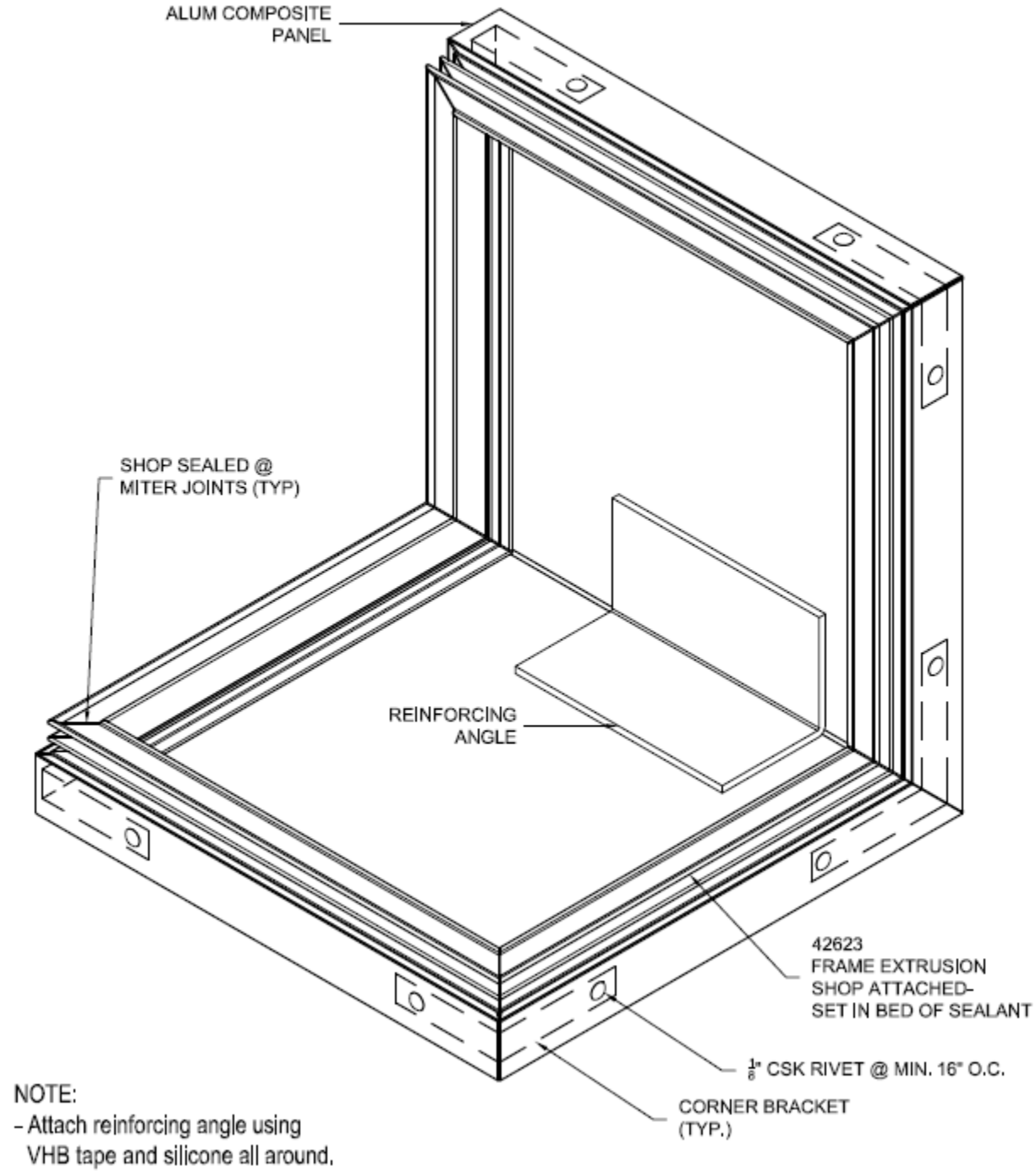


Back Vented Panel Construction Details



NOTE:
- Attach reinforcing angle using VHB tape and silicone all around.
- NO silicone in corners, joints, or seams.

Pressure Equalized Panel Construction Details



NOTE:
– Attach reinforcing angle using VHB tape and silicone all around.

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