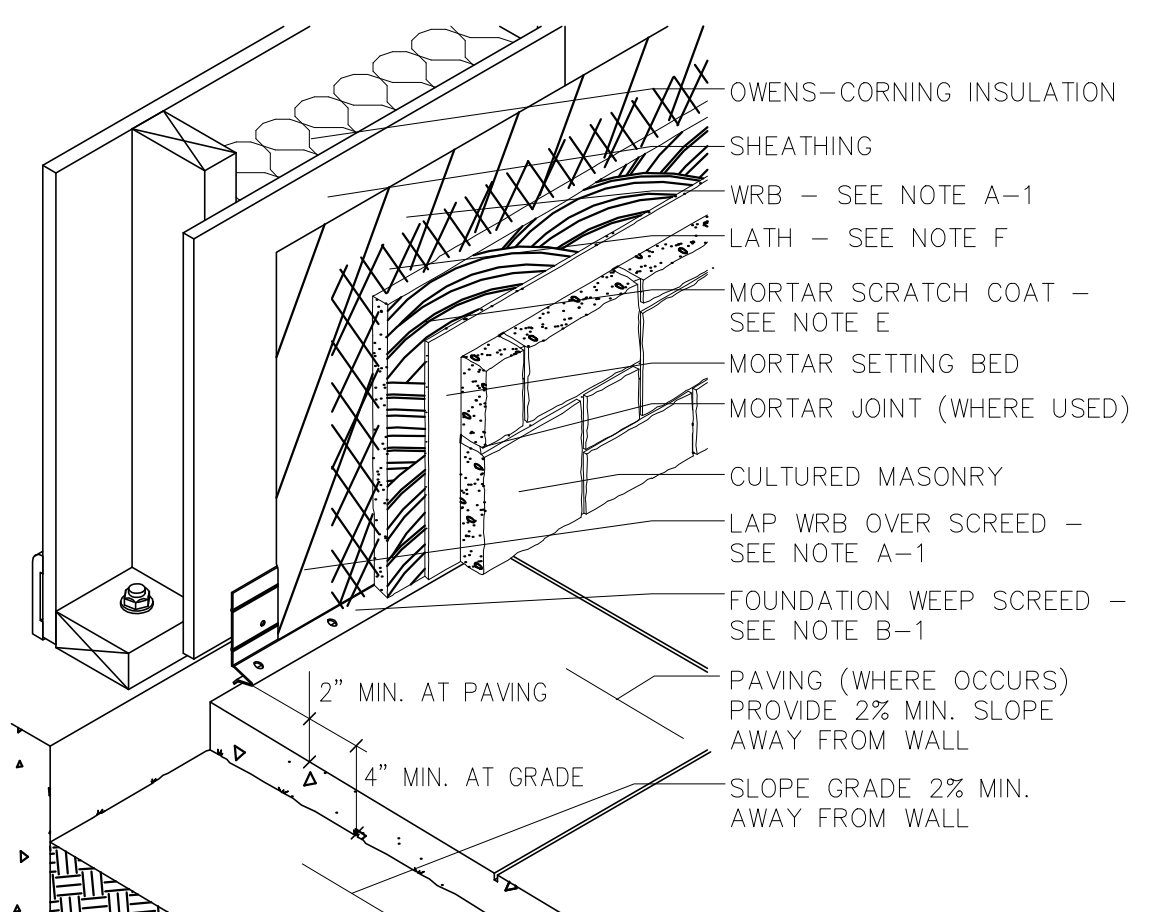


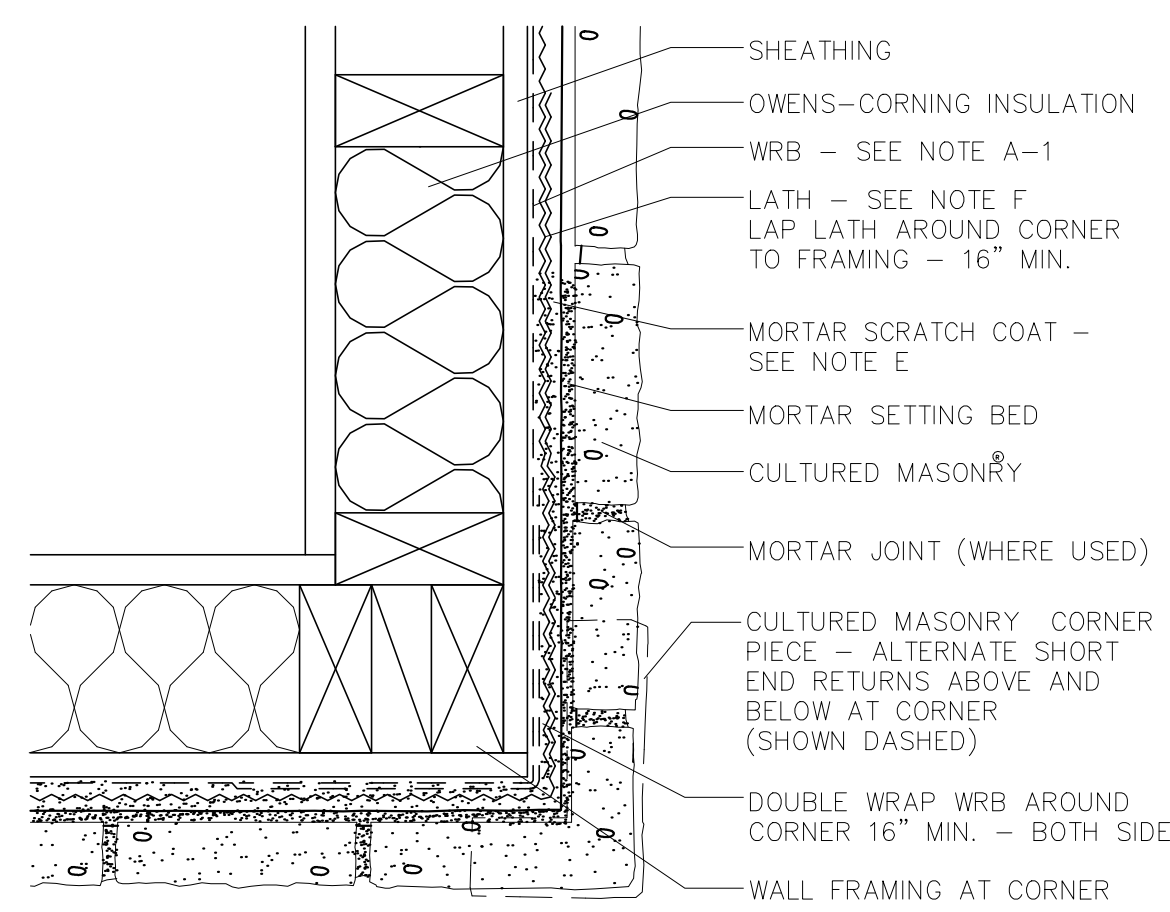
1-B SHEATHING AND WOOD STUDS - FOUNDATION WALL BASE
1.1 SCALE: 3"=1'-0"

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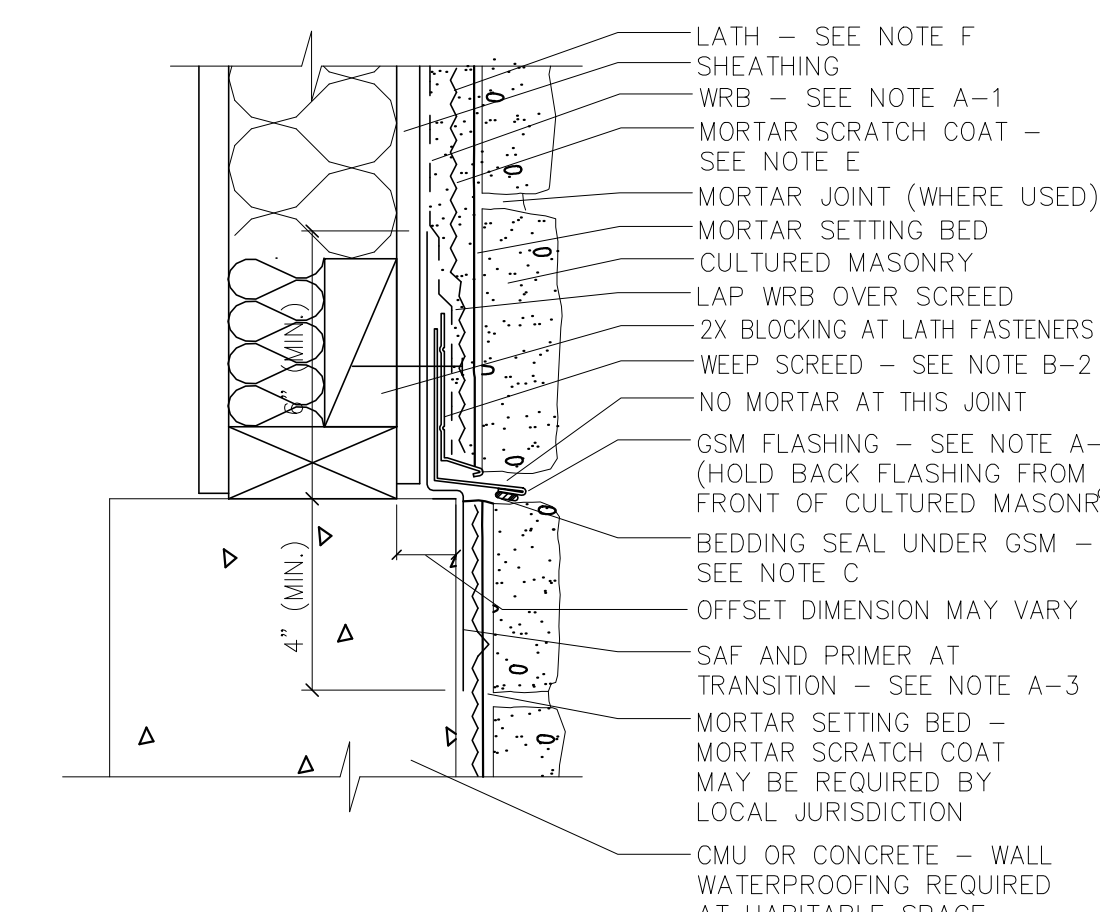
1-B SHEATHING AND WOOD STUDS - FOUNDATION WALL BASE
1.1A SCALE: N.T.S.

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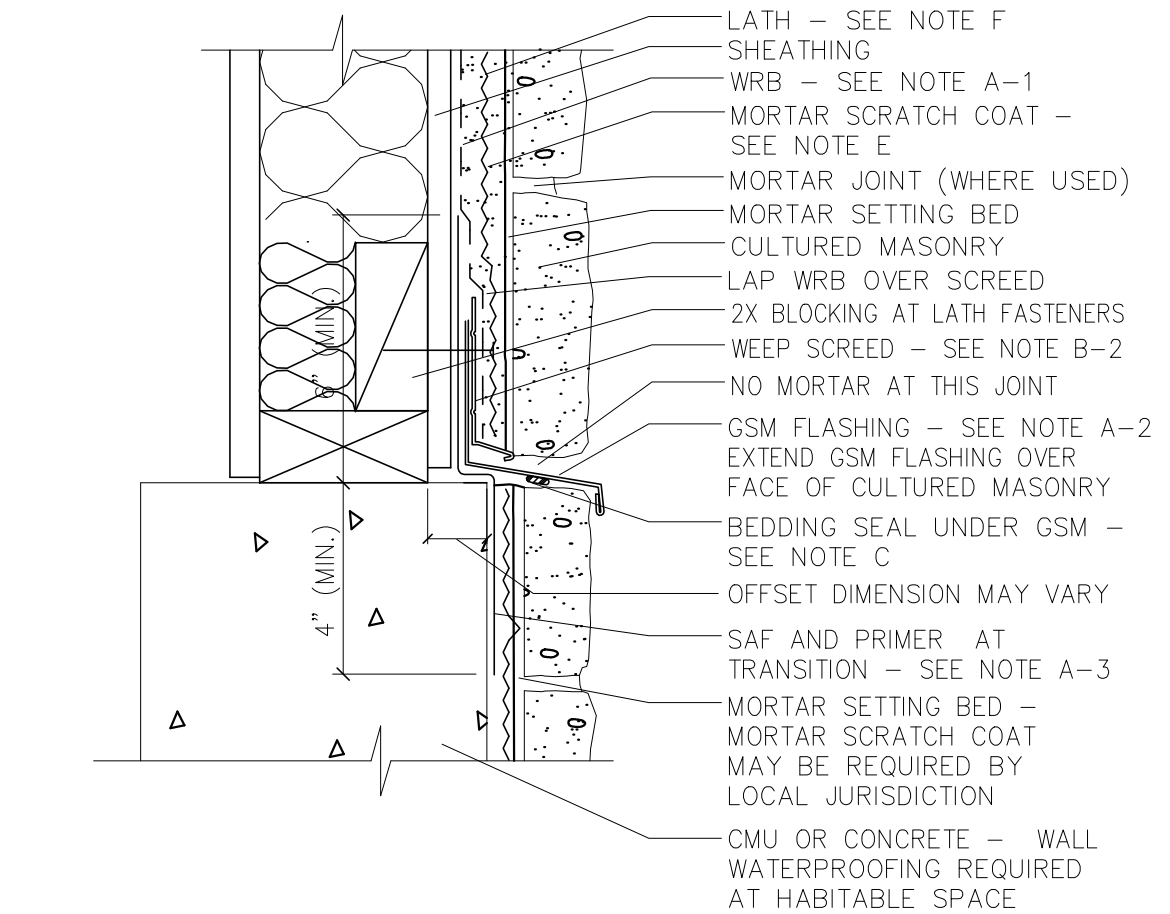
1-B SHEATHING AND WOOD STUDS - OUTSIDE CORNER
1.2 SCALE: 3"=1'-0"

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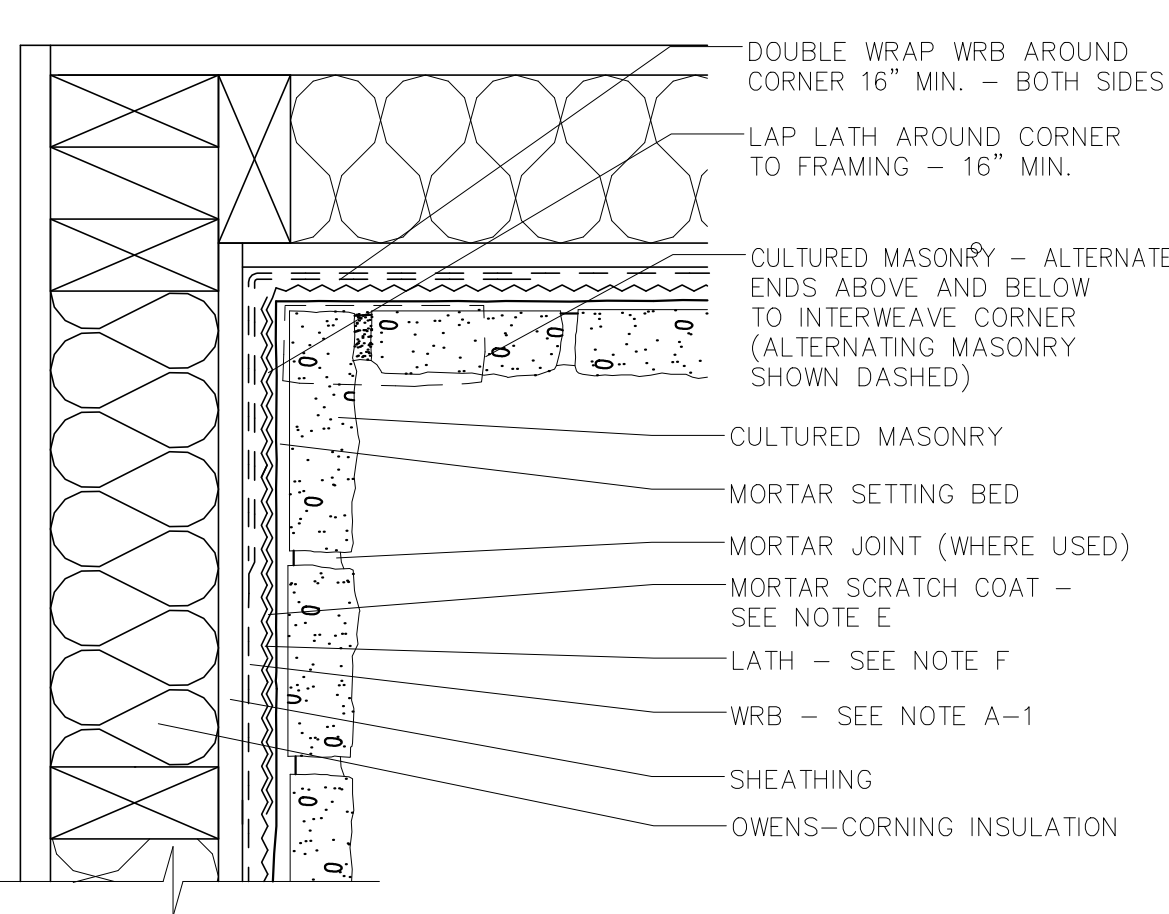
1-A CMU OR CONCRETE WALL - WOOD FRAMING RECESSED BASE FLASHING
1.2A SCALE: 3"=1'-0"

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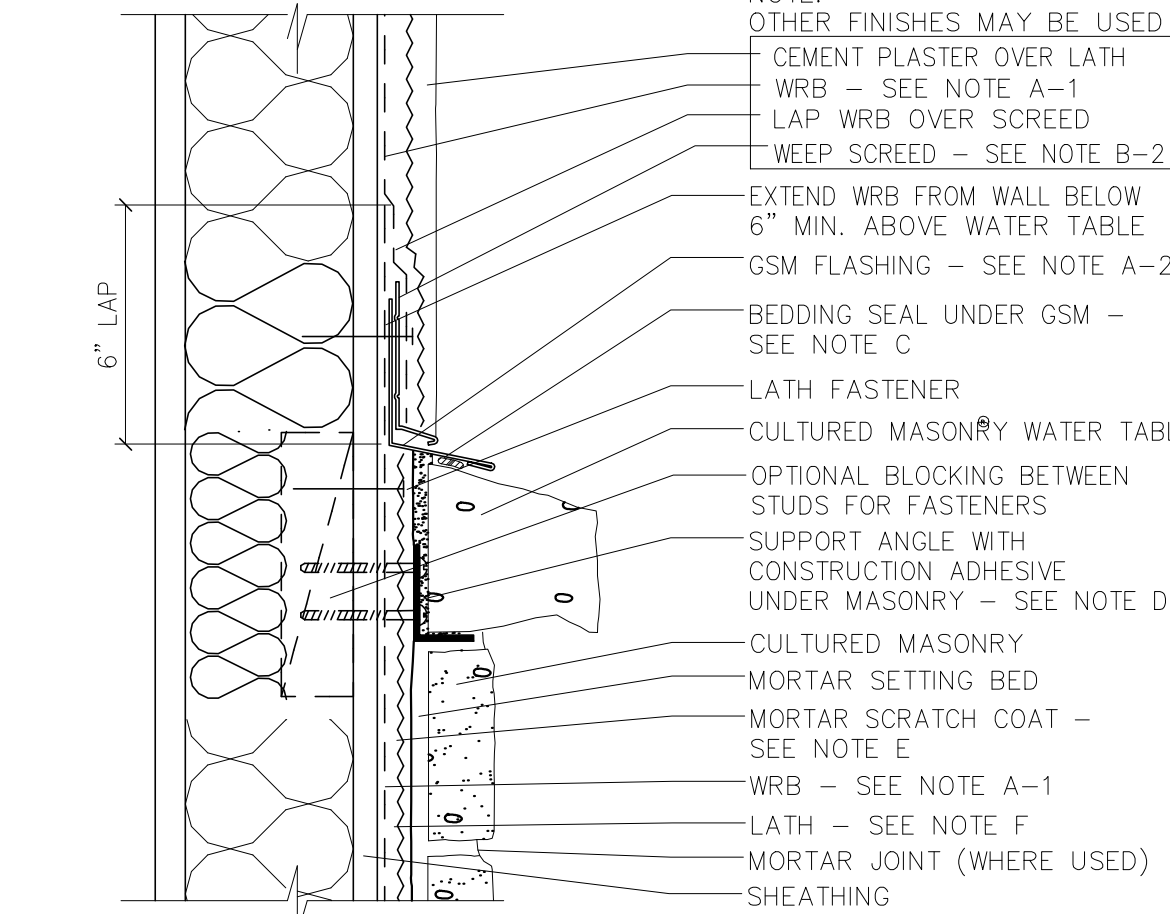
1-A CMU OR CONCRETE WALL - WOOD FRAMING EXTENDED BASE FLASHING
1.2B SCALE: 3"=1'-0"

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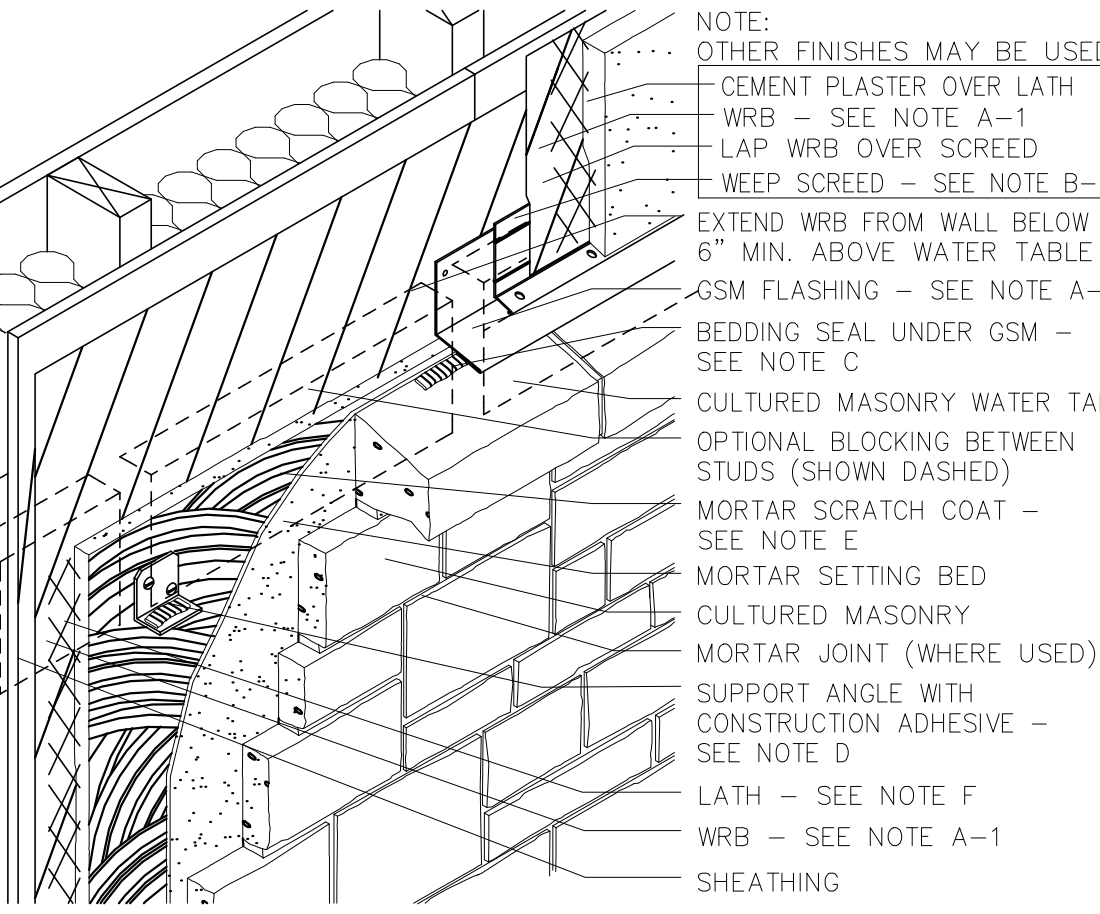
1-B SHEATHING AND WOOD STUDS - INSIDE CORNER WATER TABLE OR WAINSCOT
1.3 SCALE: 3"=1'-0"

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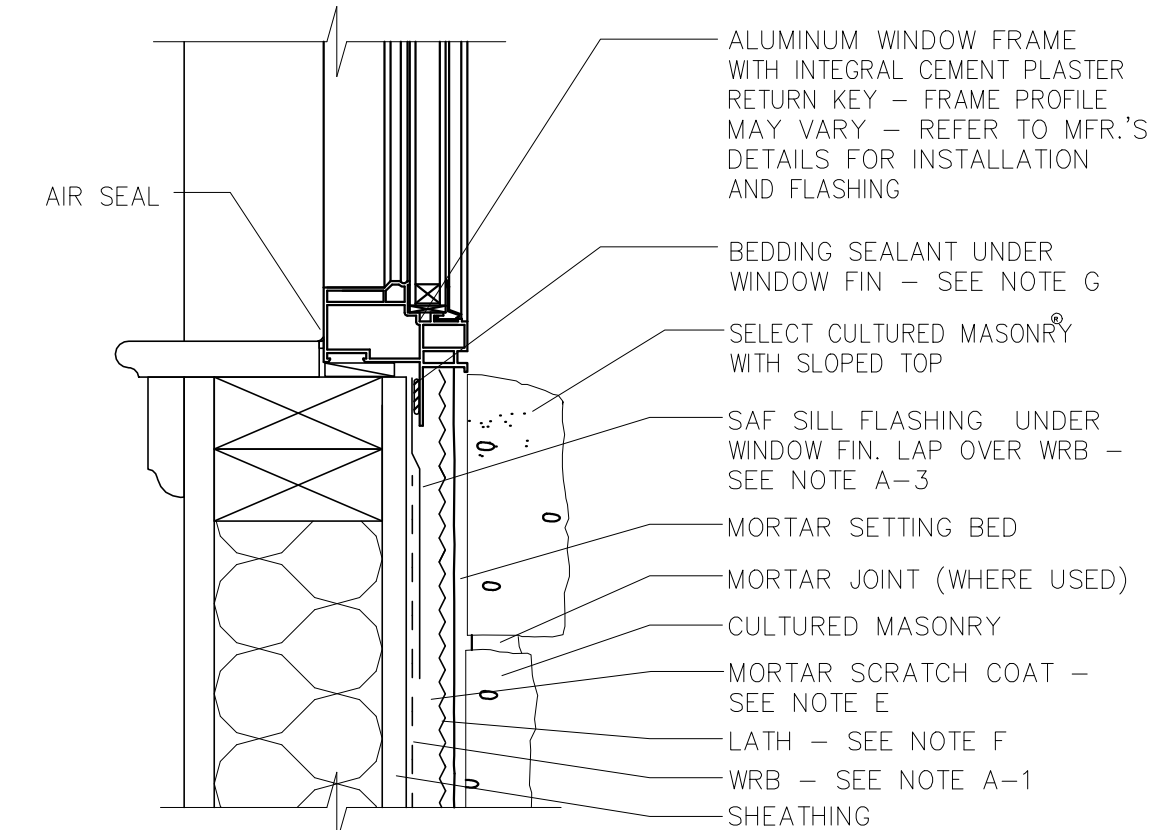
1-B SHEATHING AND WOOD STUDS - OUTSIDE CORNER WATER TABLE OR WAINSCOT
1.4 SCALE: 3"=1'-0"

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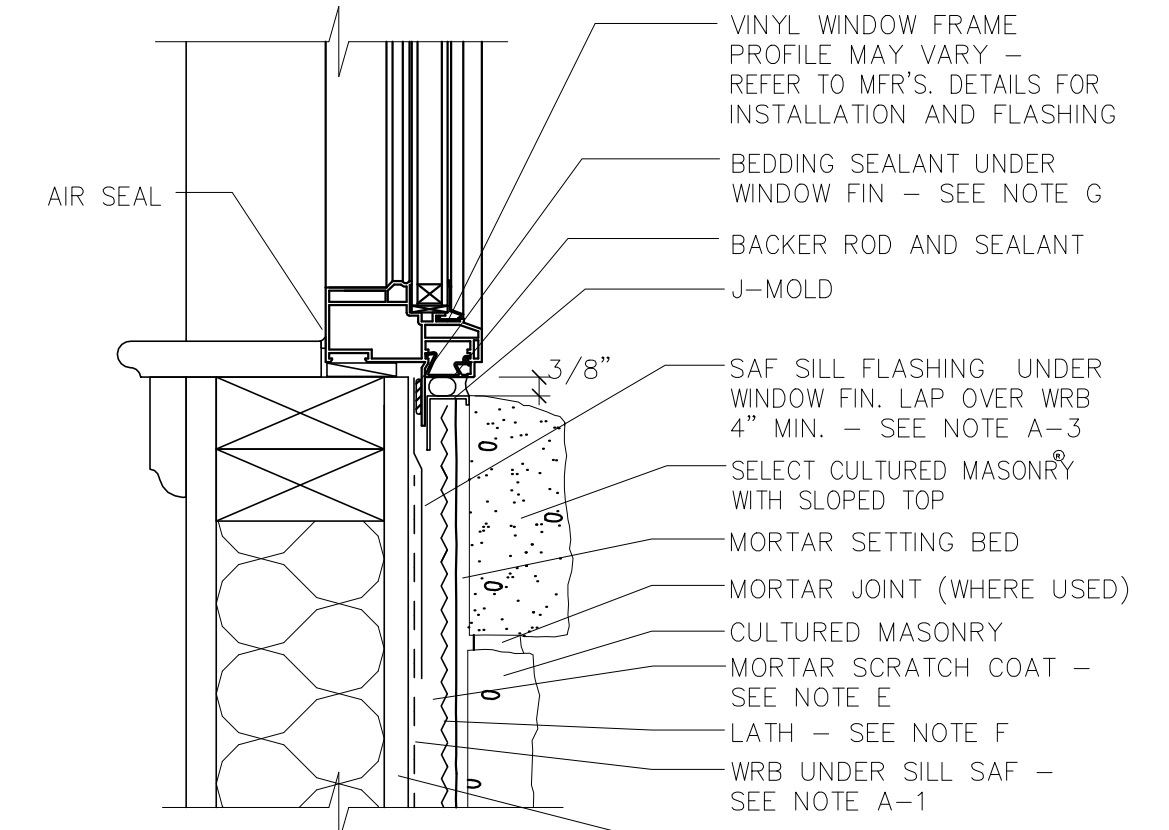
1-B SHEATHING AND WOOD STUDS - WATER TABLE OR WAINSCOT
1.4A SCALE: N.T.S.

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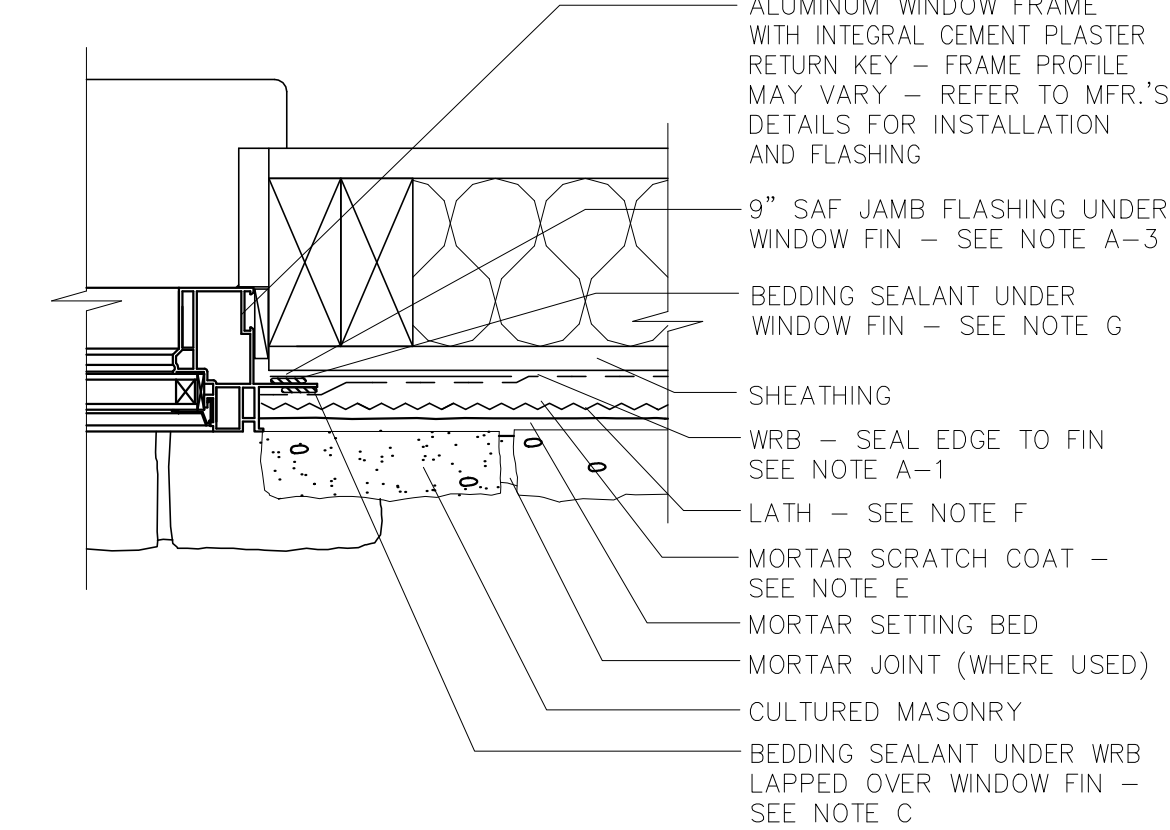
1-B SHEATHING AND WOOD STUDS - ALUMINUM WINDOW SILL, NAIL FIN
1.6A SCALE: 3"=1'-0"

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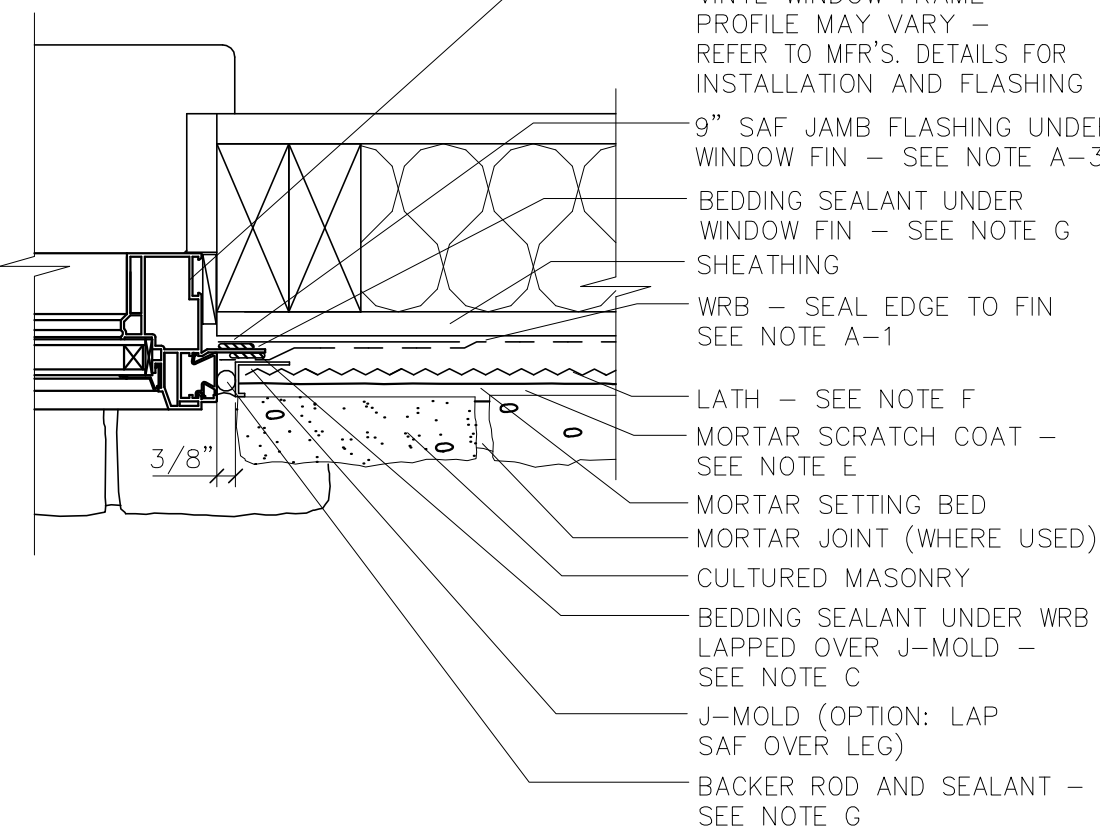
1-B SHEATHING AND WOOD STUDS - VINYL WINDOW SILL, NAIL FIN
1.6B SCALE: 3"=1'-0"

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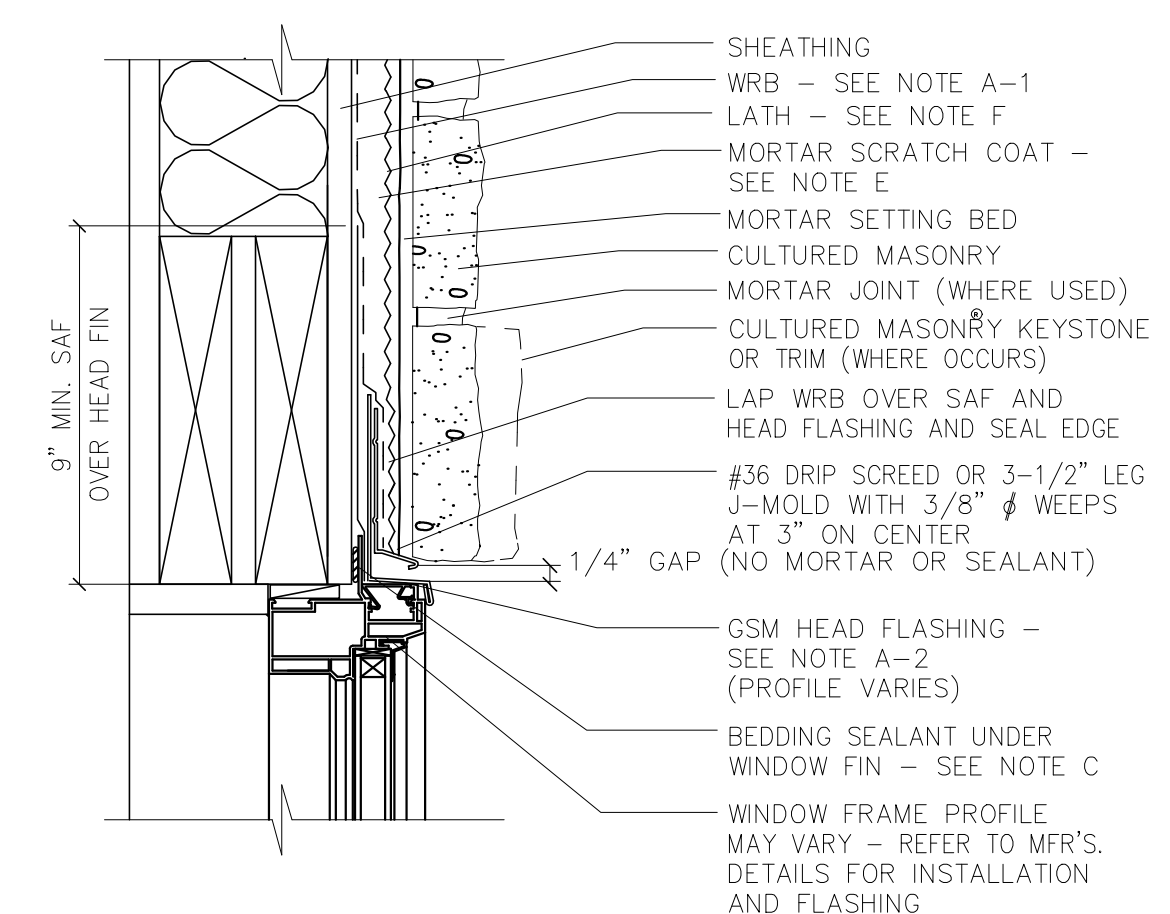
1-B SHEATHING AND WOOD STUDS - ALUMINUM WINDOW JAMB, NAIL FIN
1.7A SCALE: 3"=1'-0"

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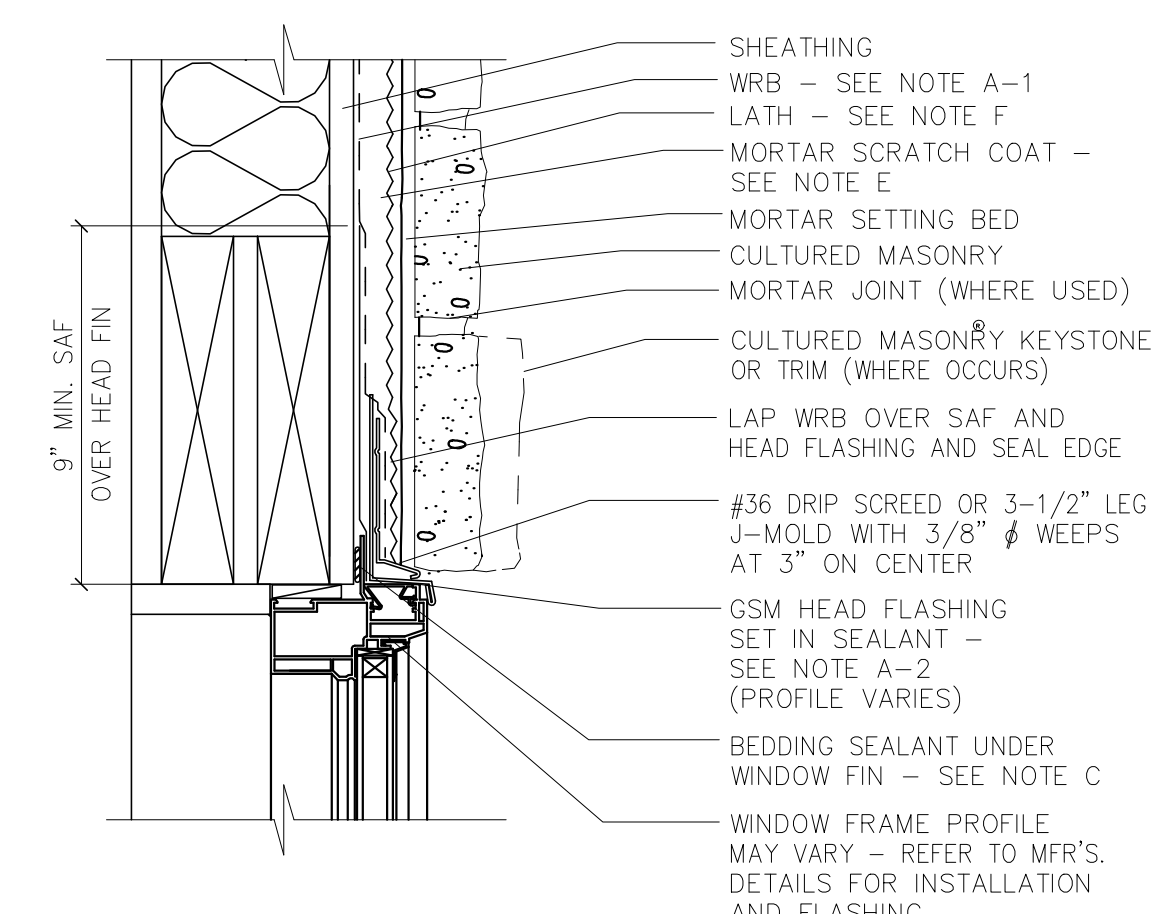
1-B SHEATHING AND WOOD STUDS - VINYL WINDOW JAMB, NAIL FIN
1.7B SCALE: 3"=1'-0"

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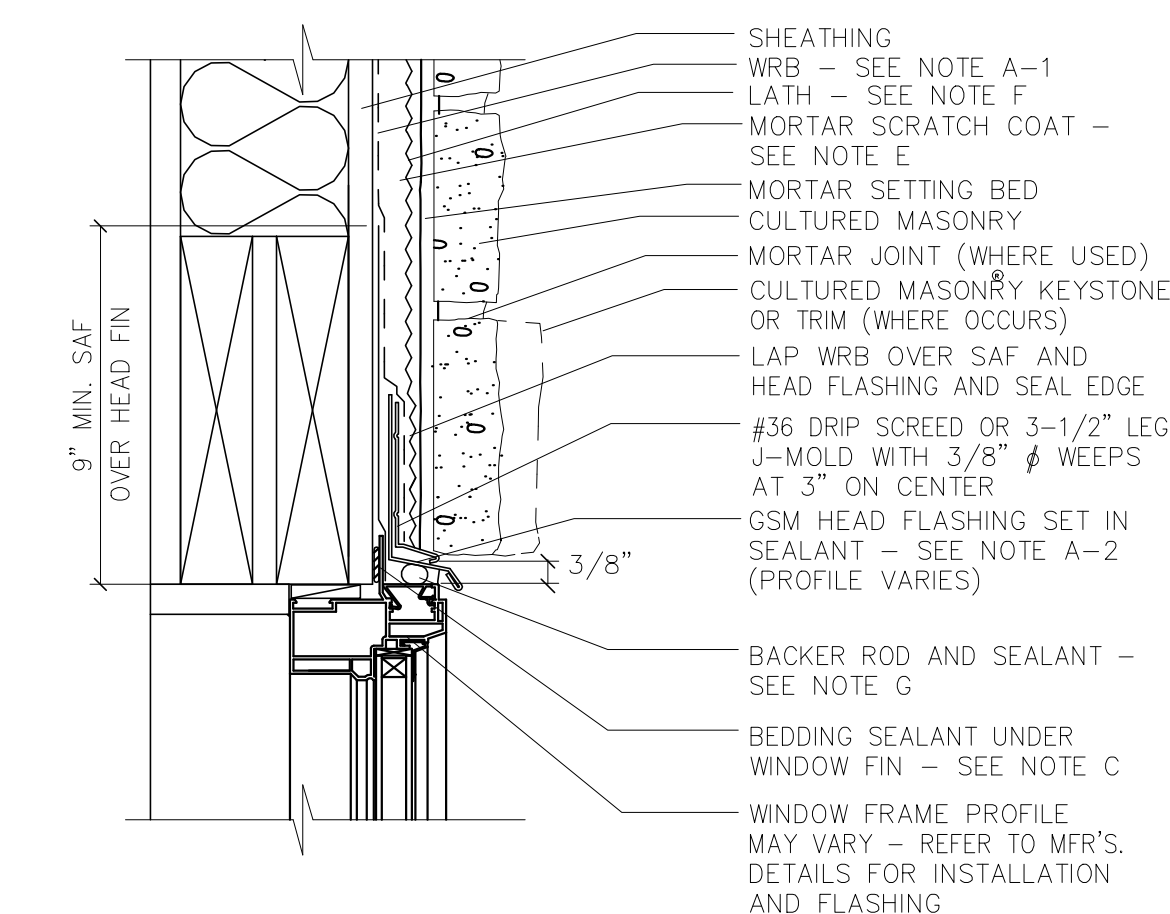
1-B SHEATHING AND WOOD STUDS - WINDOW HEAD - TYP., NAIL-FIN
1.8 SCALE: 3"=1'-0"

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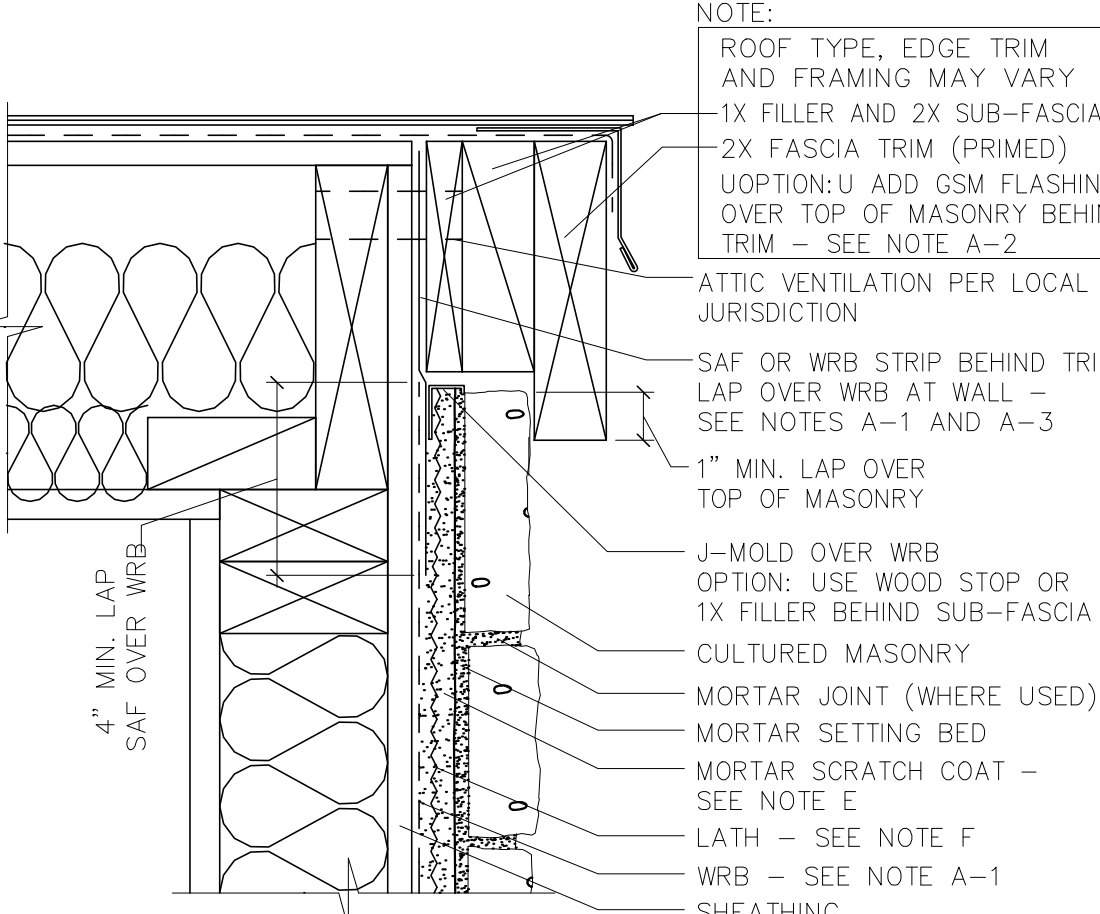
1-B SHEATHING AND WOOD STUDS - ALUMINUM WINDOW HEAD - TYP., NAIL-FIN
1.8A SCALE: 3"=1'-0"

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1-B SHEATHING AND WOOD STUDS - VINYL WINDOW HEAD - TYP., NAIL-FIN
1.8B SCALE: 3"=1'-0"

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1-B TOP OF FRAMED WALL AT ROOF - TIGHT RAKE
1.9A SCALE: 3"=1'-0"

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Notes for Wall Details

A-1 WRB = Weather-Resistant Barrier (aka water-resistant barrier). The minimum requirements must meet applicable building code regulations. Provide minimum 6-inch vertical laps and 3-inch horizontal laps (preferred) per NFPA 5000 (2-inch minimum horizontal lap per IBC & IRC). Check with local code authority to verify requirements for WRB at specific projects.

WRB over wood framing:
2018 IBC Section 2018 IRC require (1) layer No. 15 asphalt felt per ASTM D 226, Type 1.
(2) layers of Grade D building paper are required for stucco applications over wood-based sheathing in the 2018 MSBC & 2018 IBC.
Generally, 2 layers of grade D, 60 minute building paper provide better performance than 1 layer.
(1) layer of building paper is permitted per International Code Council (ICC) Evaluation Report ESR-1304 for Cultured Stone® exterior wall applications. However, 2 layers over wood-based sheathing is recommended for increased WRB durability.

WRB over CMU / Concrete: Generally a WRB is not required for the mortar setting base coat over a substrate of CMU or concrete. However, if there is habitable space to the interior, then consideration for water management should be made which may include a WRB. When a WRB is used over a CMU/Concrete substrate the fasteners and integration with flashing, drips and screeds may require special detailing consideration, including the use of a mechanically attached lath.

A-2 GSM = Galvanized Sheet Metal. This usually refers to flashings that are fabricated with 24 gage minimum thickness. The sheet metal is coated with a G90 (preferred) or G60 (minimum) galvanizing. GSM Flashings should be mechanically fastened and soldered watertight (preferred method). Or, at a minimum, the sheet metal may be lapped 4-inches, minimum and sealed with 2 beads of a butyl or polyurethane sealant. Nail or screw fasteners for GSM flashings must be corrosion-resistant and penetrate to wall framing/blocking. The height of the vertical leg of L-type or Z-type flashings should be 3-inches minimum height. The vertical leg needs to be counter-flashed with a strip of SAF and/or the WRB.

A-3 SAF = Self-Adhering Flashing. This refers to peel-and-stick type membrane flashings. A 40 mil thickness is preferred, except shingle-fashion with SAF-to-SAF laps of 3 inches minimum. All edges and seams must be rolled flat and light with a 1 to 2-inch wide solid hand roller. Integrate SAF with flashings and WRB lapped in shingle-fashion.

B-1 Foundation Weep Screed. Provide a means to weep water behind the Cultured Stone® at the bottom of framed wall with the mortar setting bed. A weep screed is a building code requirement with cement plaster over wood framed walls. Use a #7 or #8 type screed with a 3-12-inch vertical leg. Adjust the ground depth for the thickness of the scratch coat and mortar setting bed.

B-2 Watertable Flashing. Provide a GSM flashing over the top of watertables and wainscots when additional wall cladding occurs above, including additional courses of Cultured Stone®. The flashing should extend on to the watertable/wainscot Cultured Stone® 1/2 in. minimum. The outer edge of the flashing should have a hemmed edge for stiffness and to protect a raw sheet metal edge from rusting.

B-3 Soffit Edge Drip. The bottoms of vertical walls at soffit edges including recessed window heads must have an edge drip. Or, a means to prevent water from seeping back horizontally into the soffit or head recess must be provided. A drip screed can be used where a cement plaster base coat will be applied to the vertical wall and to the horizontal portion of the soffit/ wall head recess.

C Bedding Seal under GSM flashing. The objective of the bedding seal is to limit water and air infiltration. The 3 options are: A. A generic weatherseal tape with adhesive to keep in place. B. Polyurethane sealant ASTM C-920, Type S, grade NS, Class 25; ASTM C-719. C. Mortar filler into voids under flashing and joints between stones.

D Support Angle. A galvanized metal bracket or clip capable of supporting 5 pounds/linear foot of weight. The support angle can be a continuous bracket or separate clips to support each stone installed to wall framing/ stud blocking at 16-inches on center, maximum. Or, can use a 1-1/2" x 2" x 1-3/8" x 1/8 gage clip (equivalent to Simpson Strong Tie A-21) fastened to wall framing with (2) corrosion-resistant fasteners penetrating into wood wall framing/stud blocking 1" minimum, metal studs/blocking 5/8" minimum. Install support angle over the cement plaster scratch coat. Pre-drill holes and fill with butyl sealant to the WRB prior to fastening.

E Scratch Coat. Base coat of mortar consisting of cement plaster shall cover the lath and be 3/8-inch minimum thickness. See Owens-Corning Cultured Stone® material requirements.

F Lath. Details show a galvanized metal lath separate from the WRB. Paper-backed lath may be considered for open-framing or retrofit conditions when accepted by the local jurisdiction. See Owens-Corning Cultured Stone® material requirements.

G Window Perimeter Sealant. A perimeter sealant joint is recommended between the termination of the scratch (mortar base) coat and vinyl window/door frames. It may also be necessary between some wood window/door frames when there is no exterior trim covering the joint. The exposed exterior sealant needs to adhere to the plaster termination and frame. The sealant selection should be confirmed with the sealant or window/door manufacturer.

H. DRAINAGE/VENTILATION PLANE: PROVIDE A DRAINAGE/VENTILATION PLANE BEHIND THE STONE. PROVIDE SUCH AS DELTA DRY VENTILATION PLANE WITH A RAINSCREEN FOR ABSORPTIVE COATINGS, OR OTHER APPROVED EQUALS BY THE MANUFACTURER. INSTALL OUTBOARD OF THE WATER-RESISTIVE BARRIER OR BOARD OF MASONRY. NOT REQUIRED BELOW WOOD FRAMING, SUCH AS AN UNDERGROUND GARAGE UNLESS THERE IS WOOD SHEATHING SUSCEPTIBLE TO WATER INTRUSION.

1.8A SHEATHING AND WOOD STUDS - ALUMINUM WINDOW HEAD - TYP., NAIL-FIN
1.8A SCALE: 3"=1'-0"

1.9A TOP OF FRAMED WALL AT ROOF - TIGHT RAKE
1.9A SCALE: 3"=1'-0"

1.9A SHEATHING AND WOOD STUDS - VINYL WINDOW HEAD - TYP., NAIL-FIN
1.9A SCALE: N.T.S.

PLOTTED: 12/06/24 FILE: 22042MSD COM: 5

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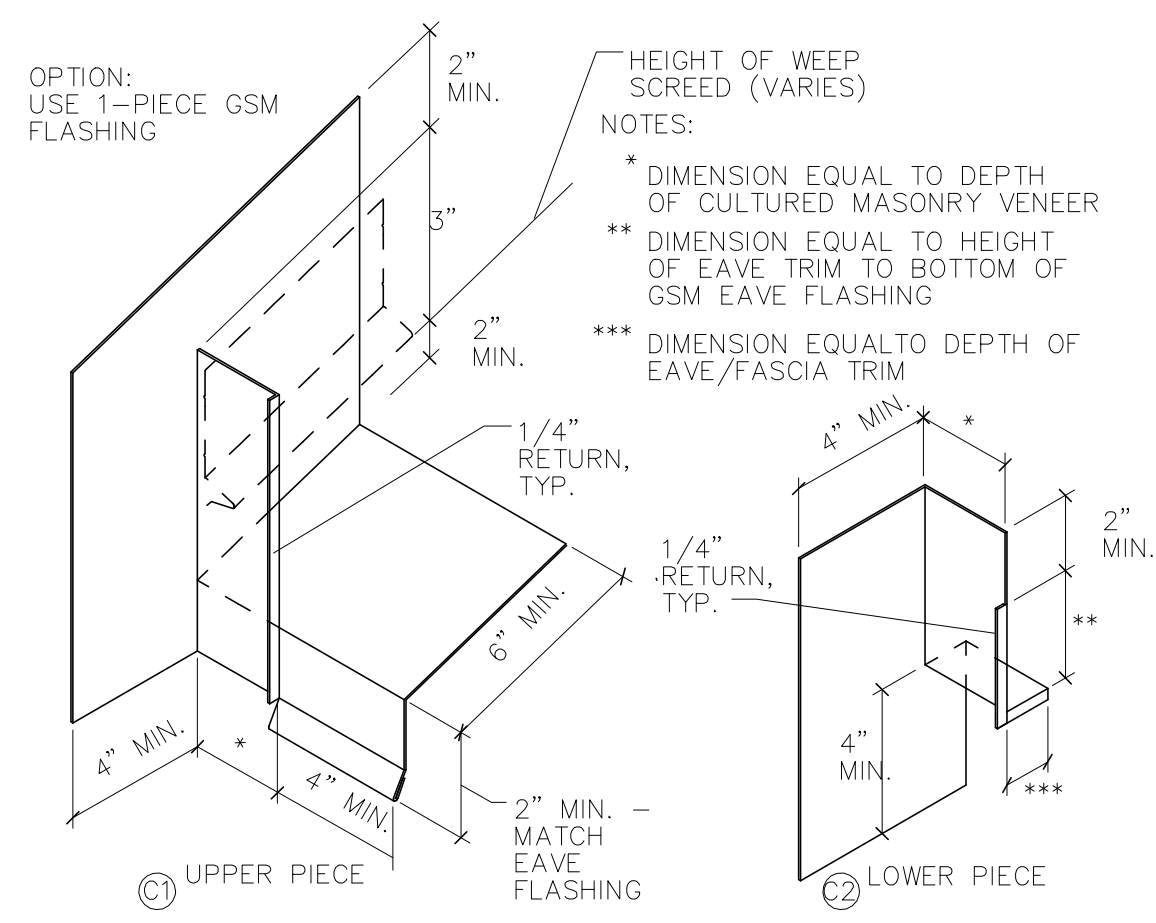
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PROPOSED:
HUGO APARTMENTS
HUGO, MN

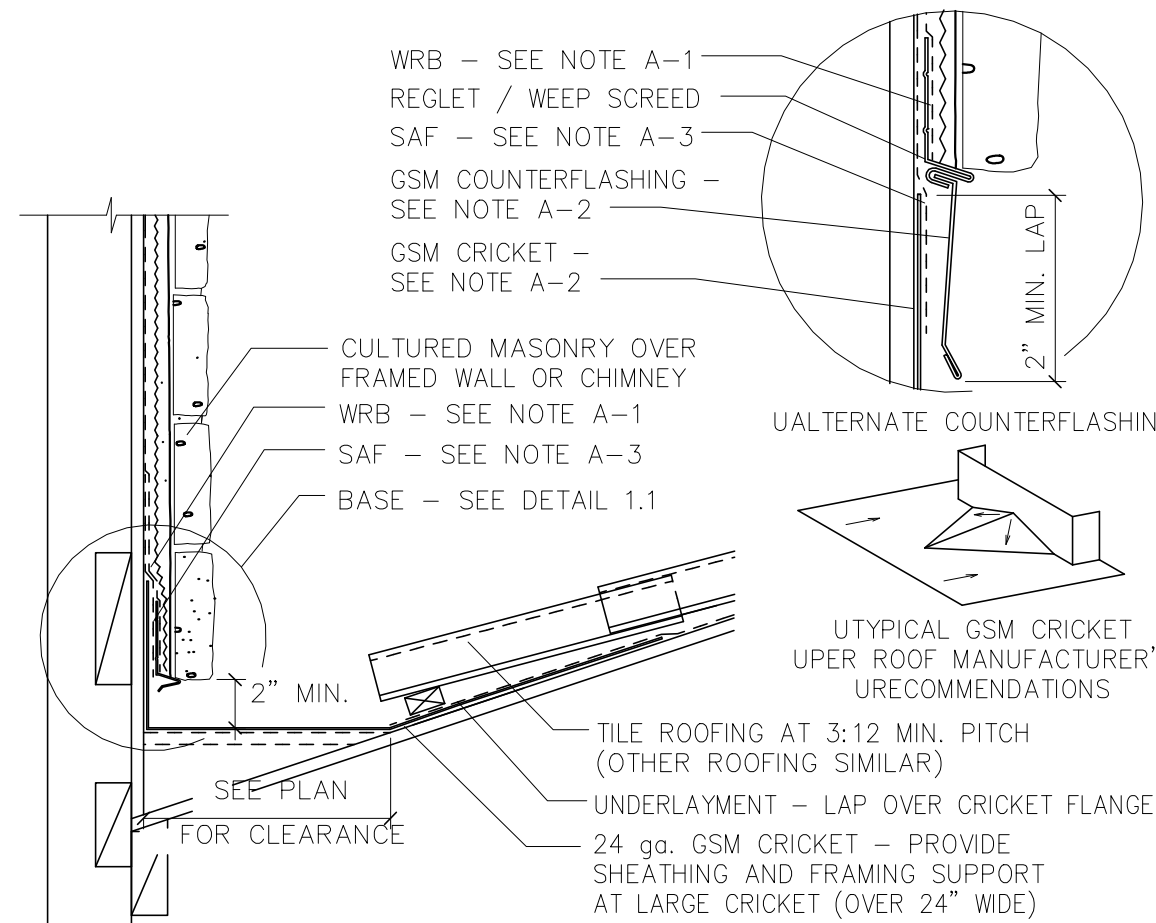
REVISIONS COMMENTS

Project No. 22042
Issue Date: 12/06/24
Document Set: PERMIT SET

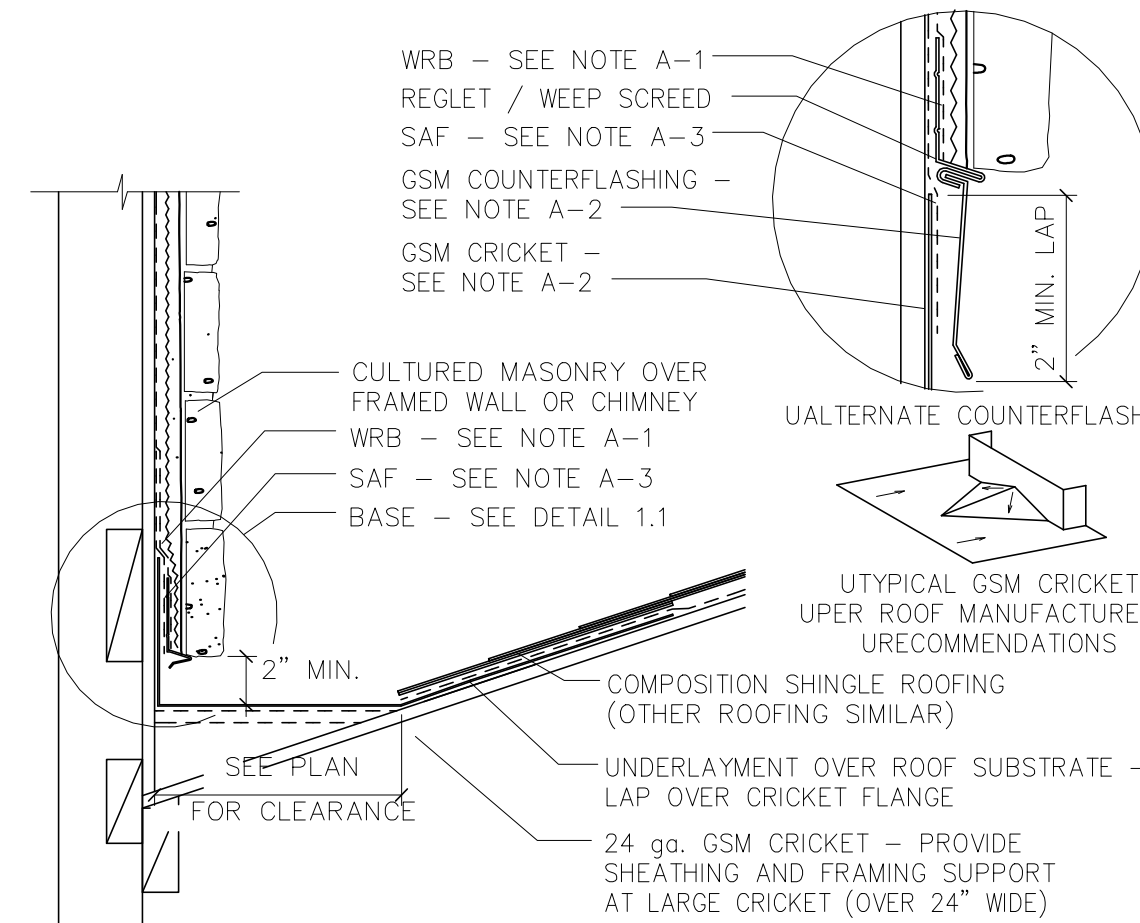
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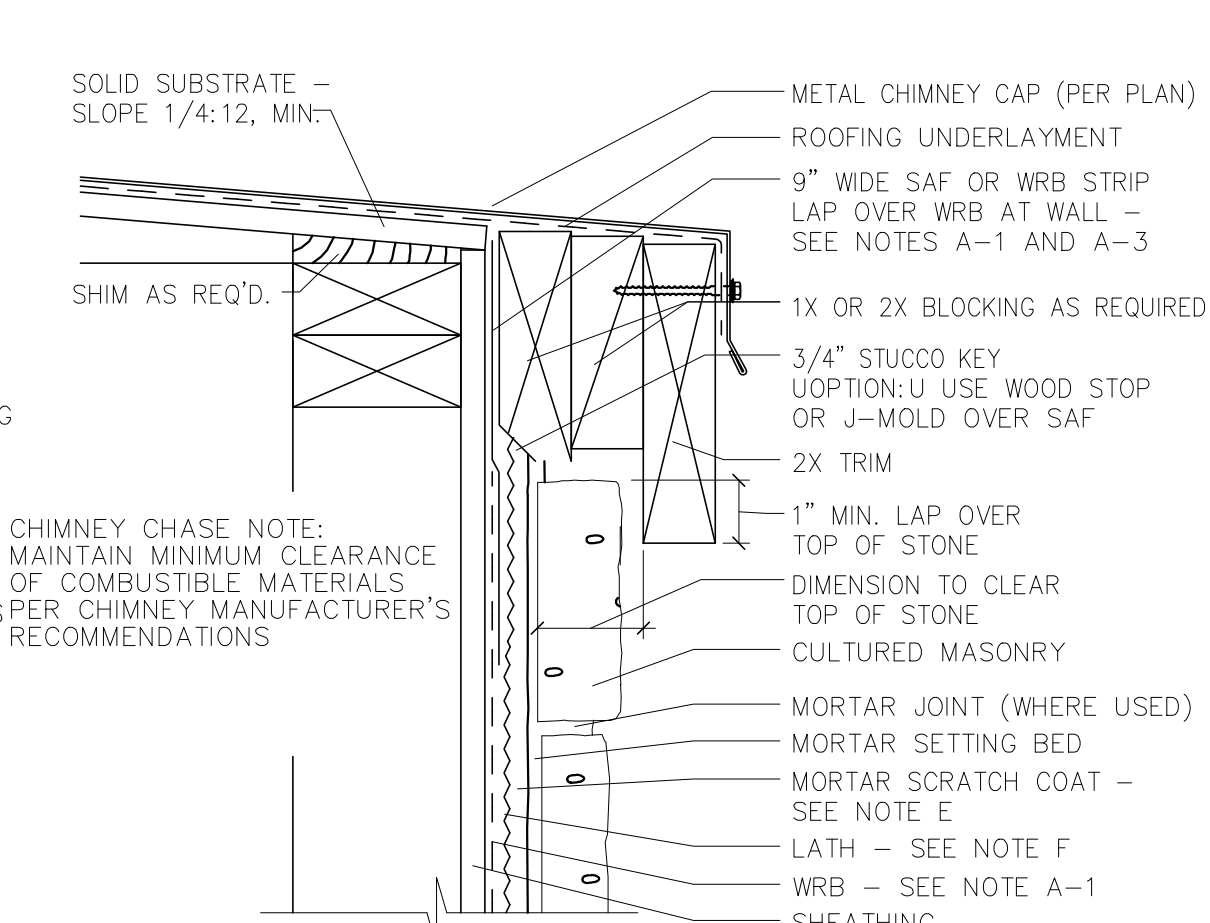
1-19D SCALE: NONE
 SHEATHING / WOOD STUDS - 2-PIECE KICK-OUT FLASHING AT EAVE, TYP.



1-20A SCALE: 1-1/2"=1'-0"
 SHEATHING AND WOOD STUDS - CRICKET AT WALL WITH TILE ROOFING



1-20B SCALE: 1-1/2"=1'-0"
 SHEATHING / WOOD STUDS - CRICKET AT WALL WITH COMPOSITION SHINGLES



1-21 SCALE: 3"=1'-0"
 CHIMNEY CHASE CAP WITH WOOD TRIM

NOTE:
 THIS SHEET IS GIVEN FOR TECHNICAL REFERENCE ONLY.

NOTE:
 SEE THE FULL INSTALLATION GUIDE FOR ADDITIONAL MANUFACTURER'S PRODUCTS & ALTERNATIVE SYSTEMS FOR EACH LISTING HERE. THE ARCHITECT & OWNER NEED TO BE CONSULTED BEFORE USING A DIFFERENT SYSTEM THAN SPECIFIED HERE.

Notes for Wall Details

- A-1** **WRB = Weather-Resistant Barrier** (aka water-resistant barrier). The minimum requirements must meet applicable building code regulations. Provide minimum 6-inch vertical laps and 3-inch horizontal laps (preferred) per NFPA 5000 (2-inch minimum horizontal lap per IRC & IRC). Check with local code authority to verify requirements for WRB at specific projects.
 WRB over wood framing: 2018 IBC Section 2018 IRC require (1) layer No. 15 asphalt felt per ASTM D 226, Type 1.
 (2) layers of Grade D building paper are required for stucco applications over wood-based sheathing in the 2018 MSBC & 2018 IBC.
 Generally, 2 layers of grade D, 60 minute building paper provide better performance than 1 layer.
 (1) layer of building paper is permitted per International Code Council (ICC) Evaluation Report ESR-1364 for Cultured Stone® exterior wall applications. However, 2 layers over wood-based sheathing is recommended for increased WRB durability.
 WRB over CMU / Concrete: Generally a WRB is not required for the mortar setting base coat over a substrate of CMU or concrete. However, if there is habitable space to the interior, then consideration for water management should be made which may include a WRB. When a WRB is used over a CMU/concrete substrate the fasteners and integration with flashing, drips and screeds may require special detailing consideration, including the use of a mechanically attached lath.
- A-2** **GSM = Galvanized Sheet Metal**. This usually refers to flashings that are fabricated with 24 gage minimum thickness. The sheet metal is coated with a G90 (preferred) or G60 (minimum) galvanizing. GSM Flashings should be mechanically fastened and soldered watertight (preferred method). Or, at a minimum, the sheet metal may be lapped 4-inches, minimum and sealed with 2 beads of a butyl or polyurethane sealant. Nail or screw fasteners for GSM flashings must be corrosion-resistant and penetrate to wall framing/blocking. The height of the vertical leg of L-type or Z-type flashings should be 3-inches minimum height. The vertical leg needs to be counter-flashed with a strip of SAF and/or the WRB.
- A-3** **SAF = Self-Adhering Flashing**. This refers to peel-and-stick type membrane flashings. A 40 mil thickness is preferred, except where multiple layers lap, then a 25 mil thickness may be considered. Install shingle-fashion with SAF-to-SAF laps of 3 inches minimum. All edges and seams must be rolled flat and tight with a 1 to 2-inch wide solid hand roller. Integrate SAF with flashings and WRB lapped in shingle-fashion.
- B-1** **Foundation Weep Screed**. Provide a means to weep water behind the Cultured Stone® at the bottom of framed wall with the mortar setting bed. A weep screed is a building code requirement with cement plaster over wood framed walls. Use a # 7 or # 36 type screed with a 3-1/2-inch vertical leg. Adjust the ground depth for the thickness of the scratch coat and mortar setting bed.
- B-2** **Waterable Flashing**. Provide a GSM flashing over the top of watertables and wainscots when additional wall cladding occurs above, including additional courses of Cultured Stone®. The flashing should extend on to the watertable/wainscot Cultured Stone® 1/2 in. minimum. The outer edge of the flashing should have a hemmed edge for stiffness and to protect a raw sheet metal edge from rusting.
- B-3** **Soffit Edge Drip**. The bottoms of vertical walls at soffit edges including recessed window heads must have an edge drip. Or, a means to prevent water from seeping back horizontally into the soffit or head recess must be provided. A drip screed can be used where a cement plaster base coat will be applied to the vertical wall and to the horizontal portion of the soffit/ wall head recess.
- C** **Bedding Seal under GSM flashing**. The objective of the bedding seal is to limit water and air infiltration. The 3 options are: A. A generic weatherseal tape with adhesive to keep in place. B. Polyurethane sealant ASTM C-920, Type S, grade NS, Class 25; ASTM C-719. C. Mortar filler into voids under flashing and joints between stones.
- D** **Support Angle**. A galvanized metal bracket or clip capable of supporting 5 pounds/linear foot of weight. The support angle can be a continuous bracket or separate clips to support each stone installed to wall framing/ stud blocking at 16-inches on center, maximum. Or, can use a 1-1/2" x 2" x 1-3/8" x 18 gage clip (equivalent to Simpson Strong Tie A-21) fastened to wall framing with (2) corrosion-resistant fasteners penetrating into wood wall framing/stud blocking 1" minimum, metal studs/blocking 5/8" minimum. Install support angle over the cement plaster scratch coat. Pre-drill holes and fill with butyl sealant to the WRB prior to fastening.
- E** **Scratch Coat**. Base coat of mortar consisting of cement plaster shall cover the lath and be 3/8-inch minimum thickness. See Owens-Corning Cultured Stone® material requirements.
- F** **Lath**. Details show a galvanized metal lath separate from the WRB. Paper-backed lath may be considered for open-framing or retrofit conditions when accepted by the local jurisdiction. See Owens-Corning Cultured Stone® material requirements.
- G** **Window Perimeter Sealant**. A perimeter sealant joint is recommended between the termination of the scratch (mortar base) coat and vinyl window/door frames. It may also be necessary between some wood window/door frames when there is no exterior trim covering the joint. The exposed exterior sealant needs to adhere to the plaster termination and frame. The sealant selection should be confirmed with the sealant or window/door manufacturer.
- H. DRAINAGE/VENTILATION PLANE**. PROVIDE A DRAINAGE/VENTILATION PLANE BEHIND THE STONE VENEER PRODUCT. AS DELTA DRY VENTILATED BAINSCREEN FOR ABSORBENT CLADDINGS, OR OTHER APPROVED EQUALS BY THE MANUFACTURER, INSTALL OUTBOARD OF THE WATER-RESISTIVE BARRIER OVER SHEATHING BOARD. (NOT REQUIRED BELOW WOOD FRAMING, SUCH AS AN UNDERGROUND GARAGE UNLESS THERE IS WOOD SHEATHING SUSCEPTIBLE TO WATER INTRUSION).

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PROPOSED: HUGO APARTMENTS
 HUGO, MN

REVISIONS COMMENTS
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Project No. 22042
 Issue Date: 12/04/24
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