

FULLERTON FINISH SYSTEMS, INC



FFS BRICKWAL DESIGN GUIDE



Corporate Office:
Fullerton Companies
13605 1st Ave North
Plymouth, MN 55441

Manufacturing Plant:
Fullerton Finish Systems, Inc.
8645 W. 21st Street
Sand Springs, OK 74062

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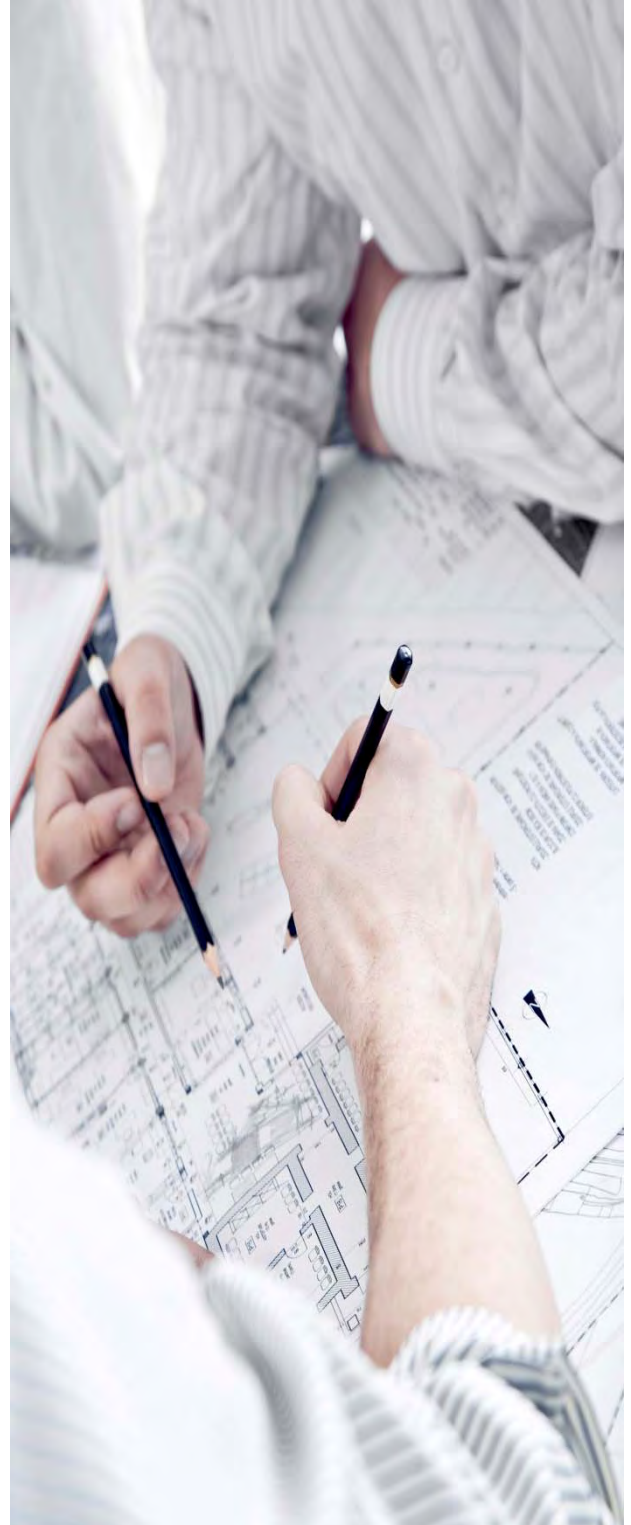
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SECTION ONE - Company History

History

Fullerton Lumber Company was established in 1882 in Mitchell, South Dakota as a retail lumber and building materials company. Today, Fullerton has a corporate office in Plymouth, MN that operates three (3) corporate divisions with six (6) total facilities in three states.

Fullerton Companies Corporate Office
13605 1st Avenue North, Suite 200
Plymouth, MN 55441



1. **Fullerton, The Builder's Choice (TBC)** Continuing the historic tradition operating a chain of building supply yards throughout the upper Midwest, predominantly in Minneapolis/St. Paul and the 12 county area. Our four (4) building centers surrounding the Minneapolis/St. Paul and surrounding area include:

Ellsworth	Wisconsin	(TBC)
Glencoe	Minnesota	(TBC)
Osceola	Wisconsin	(TBC)
Watertown	Minnesota	(TBC)



2. **Fullerton Building Systems (FBS)** Located in Worthington, MN, FBS is a wholly-owned subsidiary. Building on a century of success, FBS has one of the longest records of manufacturing building wall panels with factory applied finishes in the nation. In 1962, Fullerton consolidated the production of residential wall panels from a variety of locations throughout the Midwest into the former site of Fleetwood Homes in Worthington, MN. During the major housing recession of 1979-1981, Fullerton began specializing in commercial buildings. FBS has been manufacturing commercial panels with factory-applied exterior finishes exclusively for the commercial market.



Fullerton Building Systems
34620 250th Street
Worthington, MN 56187

SECTION ONE - Company History

3. **Fullerton Finish Systems (FFS):** Fullerton's third division is the nation's premier provider of factory applied finishes to the light commercial building industry. FFS, in addition to supplying finish veneer panels to FBS, services the restaurant, convenience, light commercial, modular and industrial markets across the country. FFS carries trade rights to a number of patented exterior finish products (E.g. BrickWal® and CastWal®) as well as the manufacturing facility to produce these products. This facility has the equipment and experience to manufacture building wall panels, both wood and steel, as needed in the future, greatly expanding FBS' total capacity.



Fullerton Finishing Systems
8645 West 21st Street
Sand Springs, OK 74063

Vision

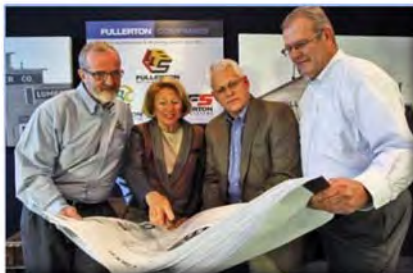
Fullerton Finish Systems vision is to be the premier provider of panelized buildings with factory-applied external finishes in the United States.

Mission

Fullerton Finish Systems mission is to become the premier provider of panelized buildings with factory-applied external finishes for restaurants, convenience stores, and other light commercial applications by providing the best lead times, highest quality, and best warranties in the industry.

The company's driving goal is to provide clients with quality building components at reasonable prices for faster and better results. Through our ongoing commitment to innovation, technology and service, we design, engineer, deliver and assemble panelized building packages with factory applied finishes - in record time.

Over the years, our reputation for excellence has attracted architects, designers, engineers, and builders whose common goal is to deliver excellence at the speed of business.



SECTION TWO - CLIENT FOCUSED RESULTS



Problem Solving

We built our company's reputation on our ability to consistently deliver Quality Exterior Finishes to companies across the nation. Our manufacturing methods and problem solving approach to today's construction design challenges sets us apart from more traditional approaches. Every day we work with franchisees, developers, general contractors and architects to help make the remodeling and construction process simpler and more cost effective.

Solutions

FFS provides real results with no surprises. Our service offerings include, but are not limited to:

- High Quality Exterior Finishes
- Faster Turn Around Times
- Superior Service and Craftsmanship
- Design flexibility

Simplicity

Simplify your project with the FFS exterior finishes. FFS exterior finish panels allow you to remodel or build and open more facilities in less time thus controlling your building costs. Our factory finishes approach reduce the number subcontractors on-site and provides factory made finishes that are not subject to exterior weather conditions which result in more consistency and higher quality.



SECTION THREE - FAQ

Questions & Answers

Our company is a little different and being able to understand what FFS can provide you is critical in your decision making process. The following is a list of some of the more frequently asked questions relating to the Fullerton Finish System.

BrickWal

- 1. What is BrickWal?**
½" Clay fired brick, epoxy adhesive on cement board.
- 2. What size do BrickWal panels come in?**
Our standard sizes are 8' x 4', 9' x 4' & 10' x 4' but we can do custom sizes for your project.
- 3. How do you cut panels?**
You want to use a dry cut blade. Panels can be cut with a standard circular saw equipped with a diamond tip masonry blade. Always cut panels from the back side.
- 4. How are the panels attached to the exterior wall?**
Mechanical fasteners are required for proper installation of panels
- 5. What is the thickness of panel & how much does it weigh:**
BrickWal panels are 1" thick and estimated weight is 7.50# per square foot.
- 6. What are the standard colors?**
We have a wide range of colors available, & 3 textures Smooth, Velour & Sands.
- 7. How are the panel to panel joints sealed?**
We suggest putting bond breaker tape down at the seams. After installation of all panels caulking should be tooled to seal all edges.

General Questions

- 1. Where can I use your products?**
Our products can be used on Exterior and Interior walls. Anywhere there is a need for a masonry finish.
- 2. Do you provide factory corners?**
Yes
- 3. Can I get custom designs, utilizing more than one product on one panel?**
Yes we can customize your panels with different finishes and textures.
- 4. Can you provide panel layout or shop drawings?**
Yes drawings can be provided for easy installation.

SECTION THREE - FAQ

5. What is your mailing address?

Fullerton Finish Systems Inc., 8645 W 21st Street / P.O. Box 609, Sand Springs, OK 74063

6. What is the cost per square foot?

Pricing per square foot varies due to the many differences from building to building. Depending on the type of project, location, wall heights and finishes selected. Please feel free to contact our office (866)915-9995 and speak with Jack Vermillion, Ray Buchanan or Gina Ogburn for a budgetary number.

7. What do you need to provide a formal quote?

If you can send us a drawing we can do square footage take off or give us your building dimensions, height, width, length along with finish type and we can give you a quote from that information. Plans can be emailed to: ray.buchanan@fullertonfinishsystems.com gina.ogburn@fullertonfinishsystems.com or jack.vermillion@fullertonfinishsystems.com

8. Will product be OK transporting on a modular building?

Yes, we provide materials to modular customers over the United States that apply our products in their plant and ship all over the country.

9. How are the products packages?

Depending on products and quantity we build special skids\crates to protect our panels during shipping.

10. How do you need to store materials on the site?

Store pallets and/or crates on a suitable flat surface above grade after removal from shipping vehicle.

11. What will I need to receive your product from shipping?

4,000 lb Forklift, depending on the size and weight of the panel crate.

12. What's the approximate lead time to receive your product?

Brickwal lead time is about 3 – 4 weeks. If quicker response is needed let us know and we will check production schedule for time to meet your schedule.

13. Do you have a local distributor of your products?

No, Sales & Production is handled from our Sand Springs, OK plant facility.

14. How far do you ship your products?

We have shipped all over the US, Canada and the Caribbean.

15. Can you provide installation of the products?

Yes, we have a network of installers that we can price product installed.

16. Can you provide misc. metal trims and accessories?

Yes, we can provide all accessories needed for your project using our panels.

SECTION FOUR – Similar Experience



Experience

FFS has been providing exterior finish wall panels/materials to various markets (retail, restaurant, convenience, hospitality, professional buildings, etc...) throughout the United States since 2005. We work with our clients to supply exterior finish panels custom made to suit their needs for remodel, upgrades or new construction.

FFS continuously works on product modifications and improvements that increase operational performance and improve the value we bring to each customer.

*Similar Project Profiles are attached for your review.



PROJECT PROFILE



Brickwal

Starbuck's Coffee New Construction QSR



Location:
Clive, IA

Project Summary:

Fullerton Building Systems, Inc. provided the building package for this new Starbuck's in Clive, IA. FBS utilized brickwal panels from FFS. Starbuck's utilized thin brick from 2 different manufacturers on this building package.

PROJECT PROFILE



Brickwal

HyVee Gas New Construction Convenience Store



Location:

Waterloo, IA

Project Summary:

FFS provided brickwal panels on this new building package for HyVee Construction. HyVee Construction is a repeat business client with a long list of projects where FFS has been a key supplier of exterior veneer finishes. FFS provided exterior wall panel veneers. The brick was purchased by the customer and shipped to the FFS facility.

PROJECT PROFILE



Brickwal

Casey's C-Store **Remodel - Convenience Store**



Location:

Storm Lake, IA

Project Summary:

FFS manufactured BrickWal panels with brick rowlock on this existing building in Storm Lake IA. Casey's wanted to update the look of their existing store. FFS provided exterior wall panel veneers in Glen Gery Old Detroit thin brick.

PROJECT PROFILE



BrickWal

Dupont Building Inc.



Project Summary:

FFS manufactured BrickWal panels for a modular building. FFS provided exterior wall panel veneers in Endicott Gray Sands thin brick.

PROJECT PROFILE



BrickWal

Engineered Fluid, Inc.



Project Summary:

FFS manufactured BrickWal panels for a modular building. FFS provided exterior wall panel veneers in Endicott Medium Iron Spot 46 Smooth thin brick.

SECTION FIVE — Brickwal Exterior Finish Spec Sheets & Details



The following are the Brickwal Exterior Finish Spec Sheets and sample detail sections showing different configurations that FFS has utilized in the past for both new construction and renovation projects.

The following are sample finish detail sections that show generally how our Brickwal exterior finishes are applied to panel sections.



BrickWal™

From Fullerton Finish Systems, Inc.



Every Advantage Over Conventional Masonry.

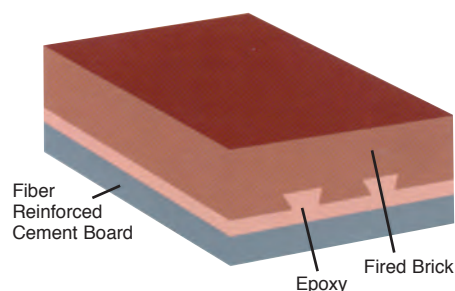
BrickWal™ gives you the look of traditional masonry without the hassle of expensive lintels, heavy foundations and structural supports. Why? Because BrickWal weighs only 8 lbs. per square foot when used as individual panels.

BrickWal™ panels increase building income and reduce maintenance expense. BrickWal™ panels are significantly thinner which allows for more usable floor space.

Also the potential maintenance problems of moisture penetrating through the wall or unsightly appearance of white stains caused by efflorescence are forever eliminated. BrickWal™ from Fullerton Finish Systems gives all of these advantages and more.

Strength Advantages.

BrickWal™ gives you a richer look than traditional masonry. The color-coordinated mortar of each panel emphasizes the beauty and distinction of kiln-fired brick. Severe weather grade brick (TBX) also prevents the occurrence of brick spalling. It has been designed, engineered and proven by the test of time.



A quality look, with durable life.

Attractive Advantages.

BrickWal™ comes in a variety of colors and textures in a sanded rake joint design and can be applied in any pattern you can imagine. Architectural distinction can be accomplished by incorporating other products from Fullerton Finish Systems onto the same panel. These accents may be cast concrete sills, bullnose copings, quoins and accent bands of crushed granite, marble or stucco. It's your choice. It's freedom to design. It's BrickWal™.

Time-Saving Advantages.

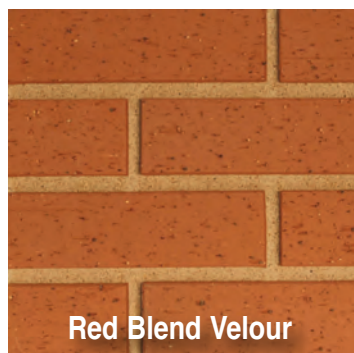
BrickWal™. The Choice is easy. So is the installation. It allows you to reduce construction time and stay on schedule. An "average" five man installation crew can install as much as 1,100 square feet of wall area in a single day, while the same number of masons can only lay approximately 450 square feet of brick. With time savings as great as these, it's time to give Fullerton Finish Systems a call.



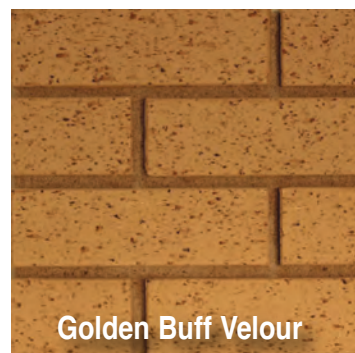
Autumn Sand



Medium Ironspot Smooth



Red Blend Velour



Golden Buff Velour



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www.fullertonfinishsystems.com

BrickWal™

From Fullerton Finish Systems, Inc.

Veneer Panel Specification

Part 1 - General

1.1 Description

A. Work described herein consists of furnishing factory fabricated veneer panels with an exterior face in a running bond pattern of kiln-fired clay brick finish applied with polymer epoxy resin on mineral fiber reinforced cement board as manufactured in Sand Springs, Oklahoma by Fullerton Finish Systems, Inc. - (918) 246-9995

B. Manufacturer shall have been continuously engaged in the manufacture of exterior wall panels for 35 or more years.

1.2 Warranty - Manufacturer to warranty from date of purchase against defective materials or workmanship for a period of five years.

Part 2 - Products

2.1 Description

A. Kiln-fired clay brick finish shall be _____ (color) and _____ (texture) per approved sample; and shall be manufactured with sanded epoxy giving deep rake joints between bricks. Epoxy color to be similar to face brick color unless otherwise specified. All material shall be obtained from one source to match in color as nearly as possible.

B. Epoxy resin finish shall conform to requirements of MIL Spec. Mil-R-9300B and MIL-R-21931A.

C. Mineral fiber reinforced cement board (M.F.B.) substrate shall meet the following minimum requirements:

Compressive Strength (lb/in²) **7000**

Flexural Strength (lb/in²) **2000**

Percent Moisture Movement

50% to 90% RH **0.06%**

Thermal "R" Value **0.15**

Burn Character

Flame / Smoke **0/5**

D. Brick veneer shall be kiln-fired clay brick of severe weather exterior grade meeting requirements of

ASTM C-1088-94 and shall be modular sized (7-5/8" x 2-1/4" x 1/2").

E. Product samples and shop drawings, if required, shall be submitted for approval before panel fabrication.

2.2 Performance

A. Panel substrate and brick finish shall withstand the following tests without noted change in appearance or material failure:

1,000 hours in Atlas Twinarc weatherometer.

14 cycles salt fog and thermal shock.

100 cycles -50 to +150 degrees F.

B. All testing shall have been performed by an independent testing facility.

Part 3 - Execution

3.1 Erection

A. Panels shall be erected plumb and true by qualified workmen.

B. Panels shall be aligned and spaced as shown on manufacturer's shop drawings, if required.

C. Panels shall be handled and attached to building structure as per manufacturer's shop drawings, if required, installation procedure and/or architectural drawings.

D. All horizontal or vertical panel joints shall be filled with sealant over bond breaker tape.

E. Accessories

1. Sealant (Equal to Dow Corning 790 or 795) shall be applied in accordance with sealant manufacturer's recommendations.

2. Bond breaker tape (slick faced polyvinyl chloride tape) minimum of 3/4" wide and equal to #50 by All Type. Tape shall be field-applied to surface behind panel joint before panel erection.

3. Fasteners shall be low profile self-drilling stainless steel or zinc and clear chromate-plated for rust resistance.

4. All of the accessories shall be of size, shape and spacing as shown on manufacturer's shop drawings, if required, and/or listed in Manufacturer's Installation Guide.



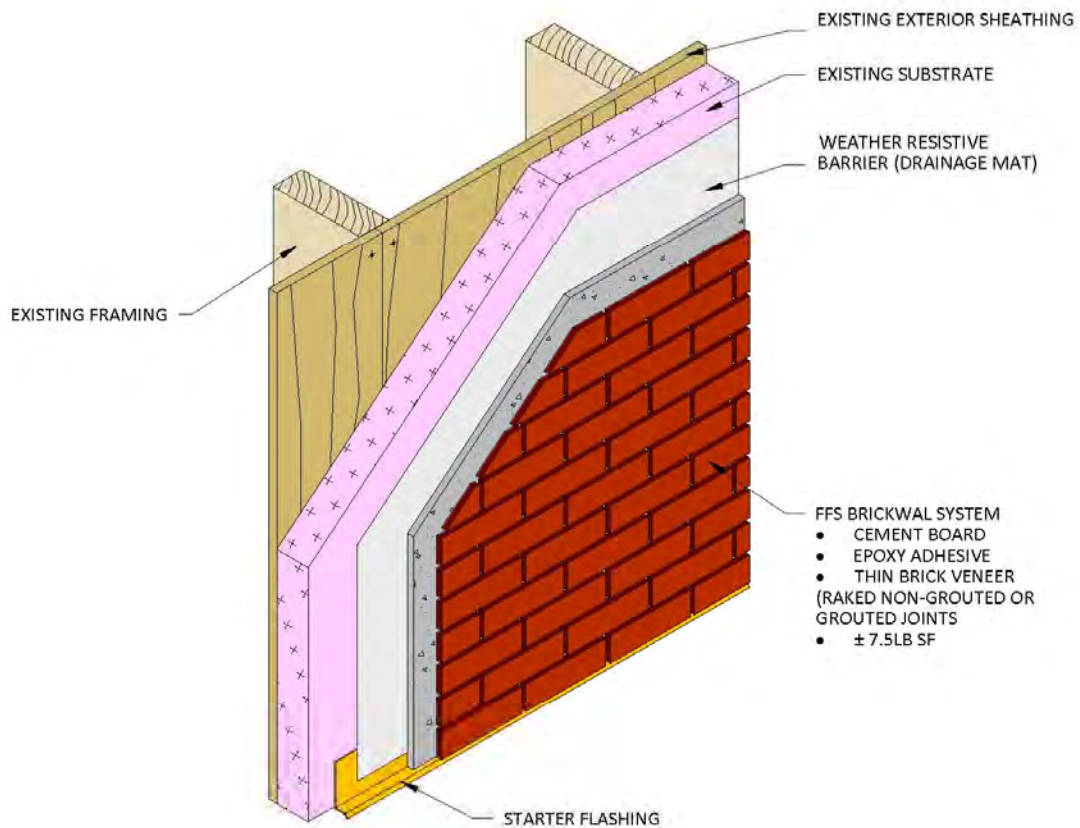
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SAMPLE DETAIL

(Renovation)



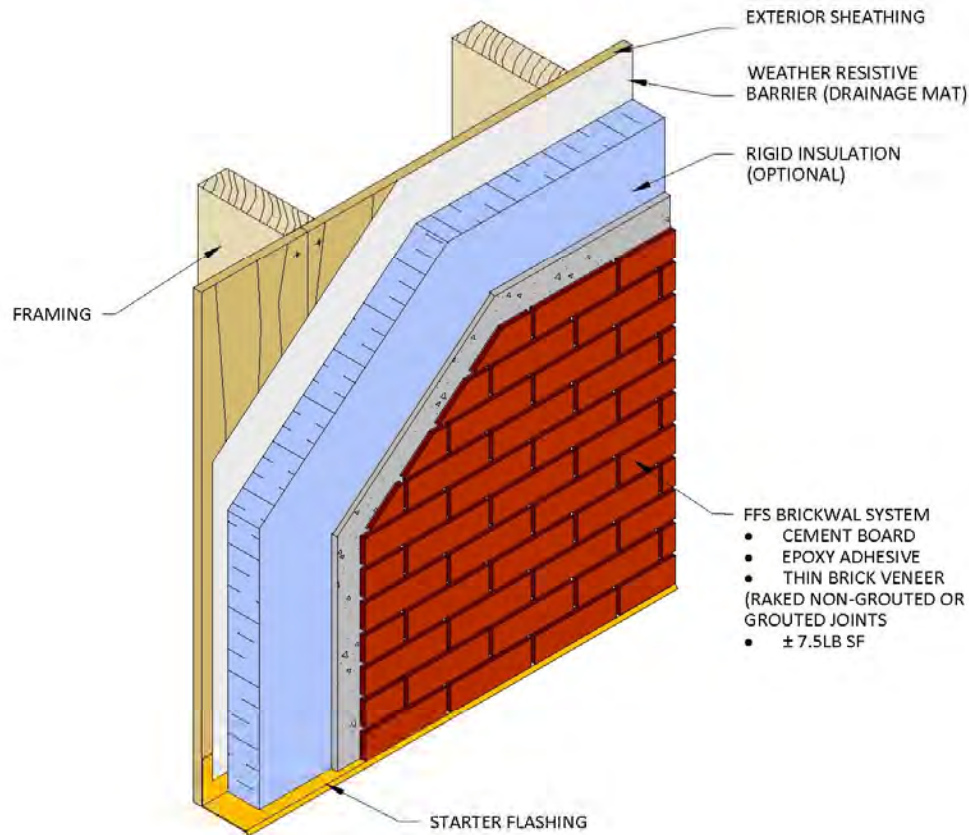
BRICK VENEER PANEL (BRICKWAL)
PROVIDED BY FFS

Brickwal System

System Layout

This drawing represents a generic sample detail for illustration purposes only.
Actual details utilized may vary due to specific project requirements.

(New Construction)



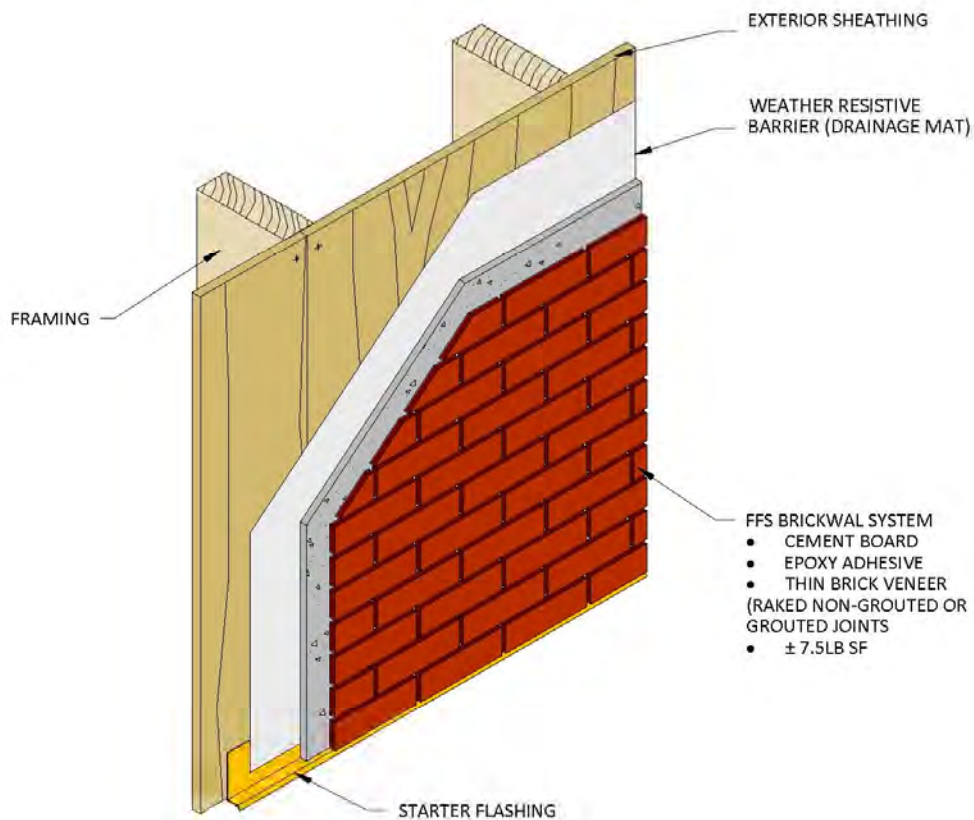
BRICK VENEER PANEL (BRICKWAL)
PROVIDED BY FFS

Brickwal System - Insulated

System Layout

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Actual details utilized may vary due to specific project requirements.

(New Construction)

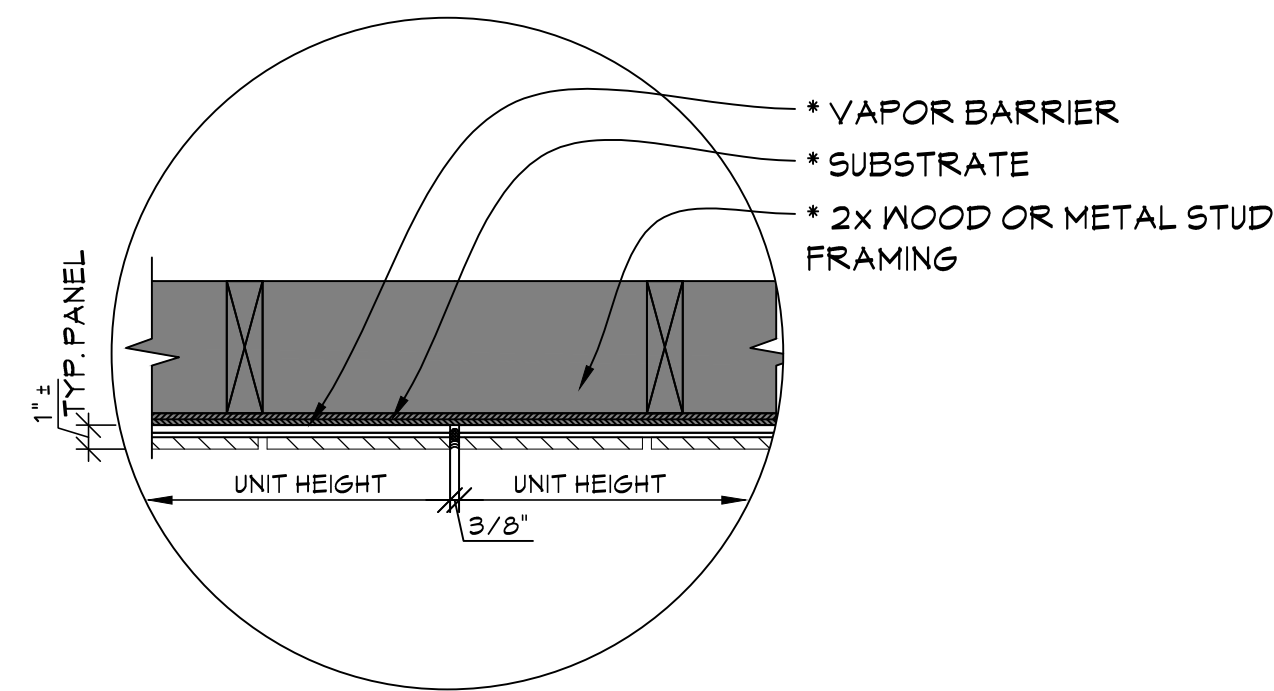


BRICK VENEER PANEL (BRICKWAL)
PROVIDED BY FFS

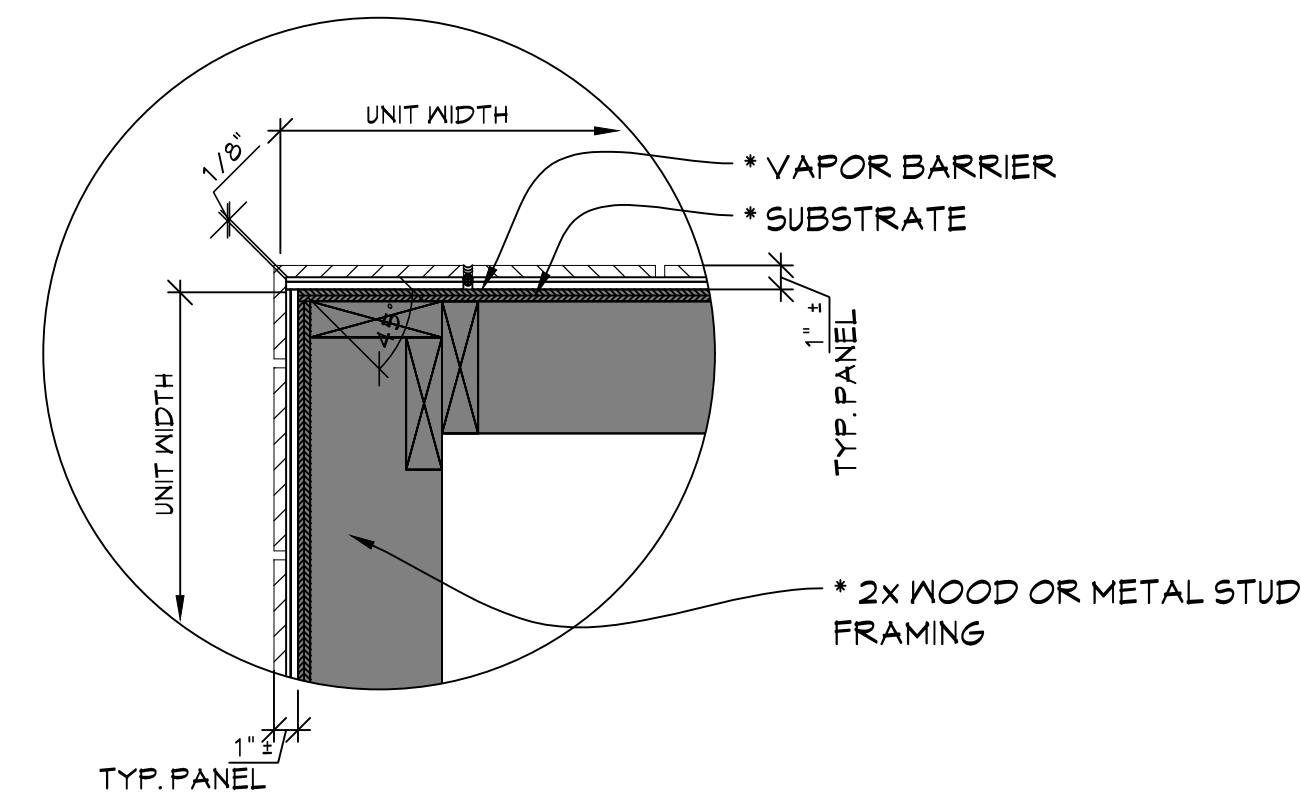
Brickwal System

System Layout

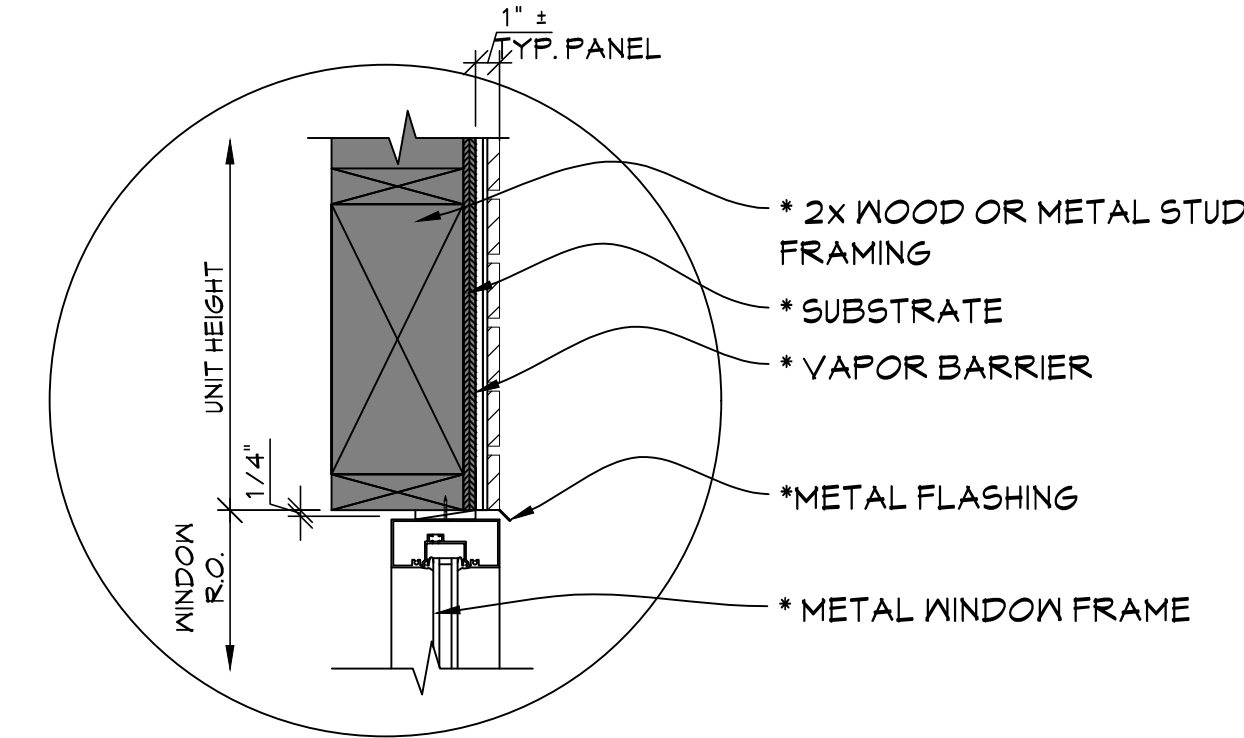
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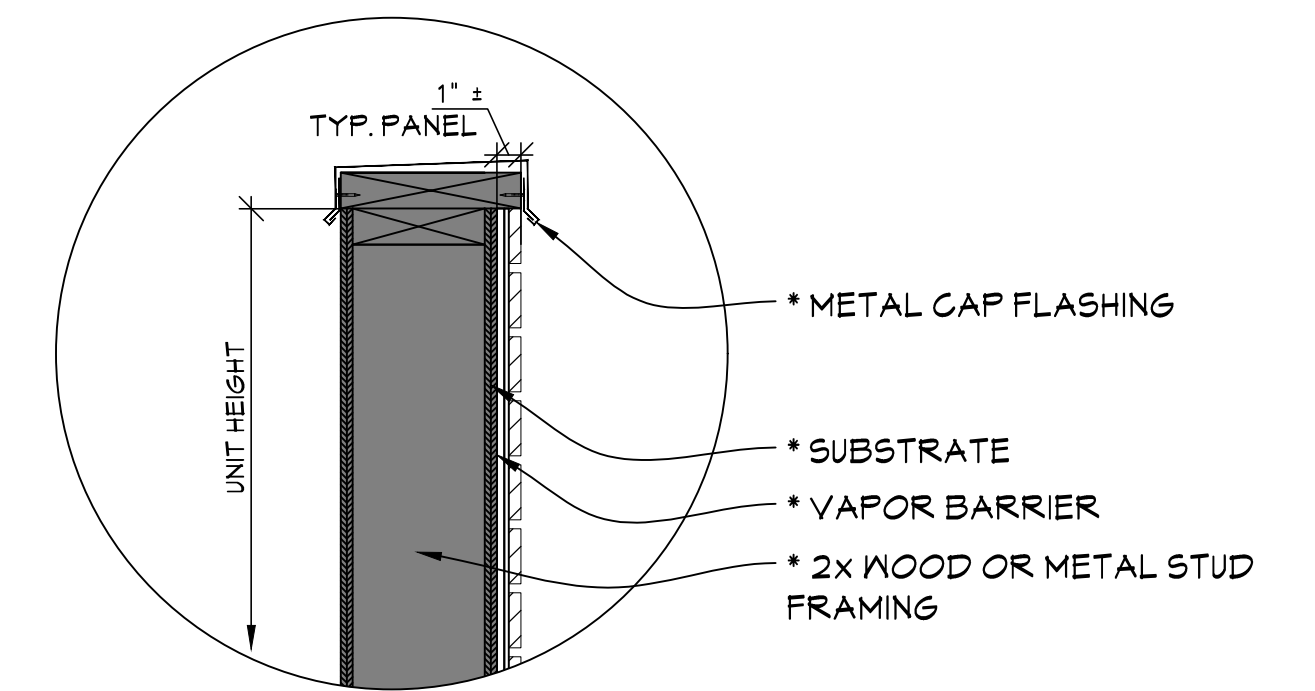
A VERTICAL JOINT
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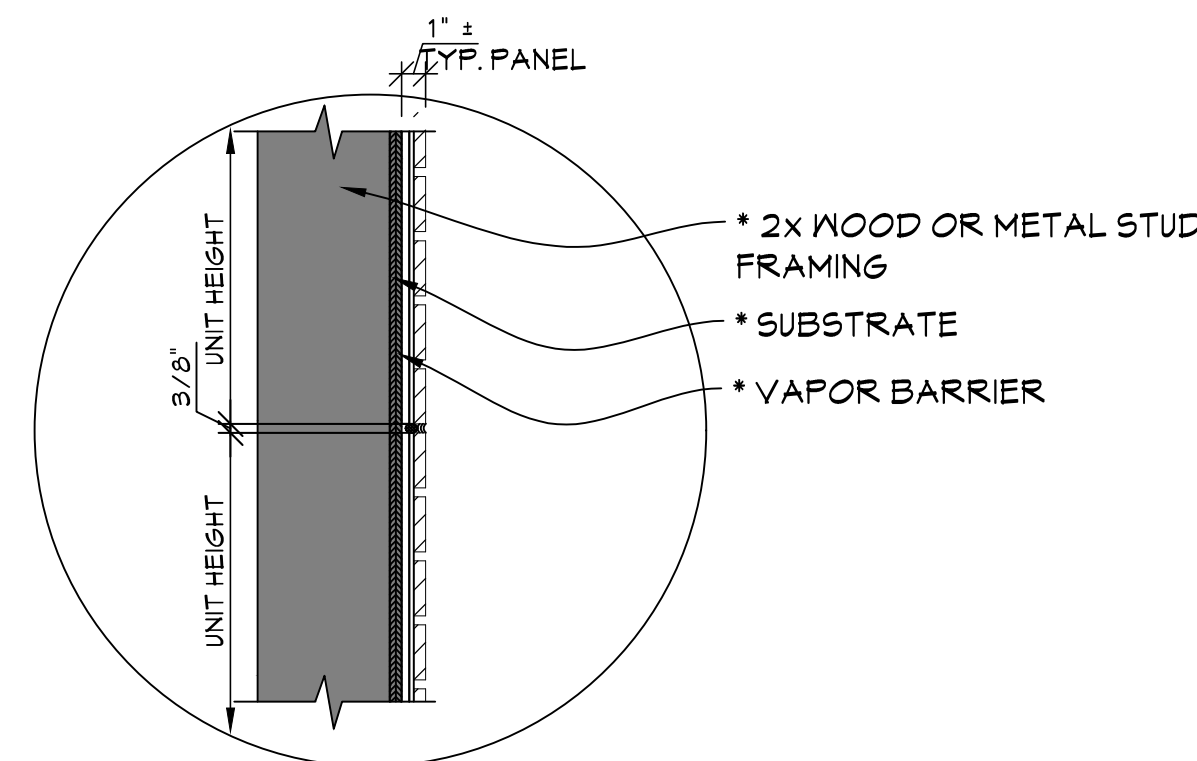
E OUTSIDE CORNER
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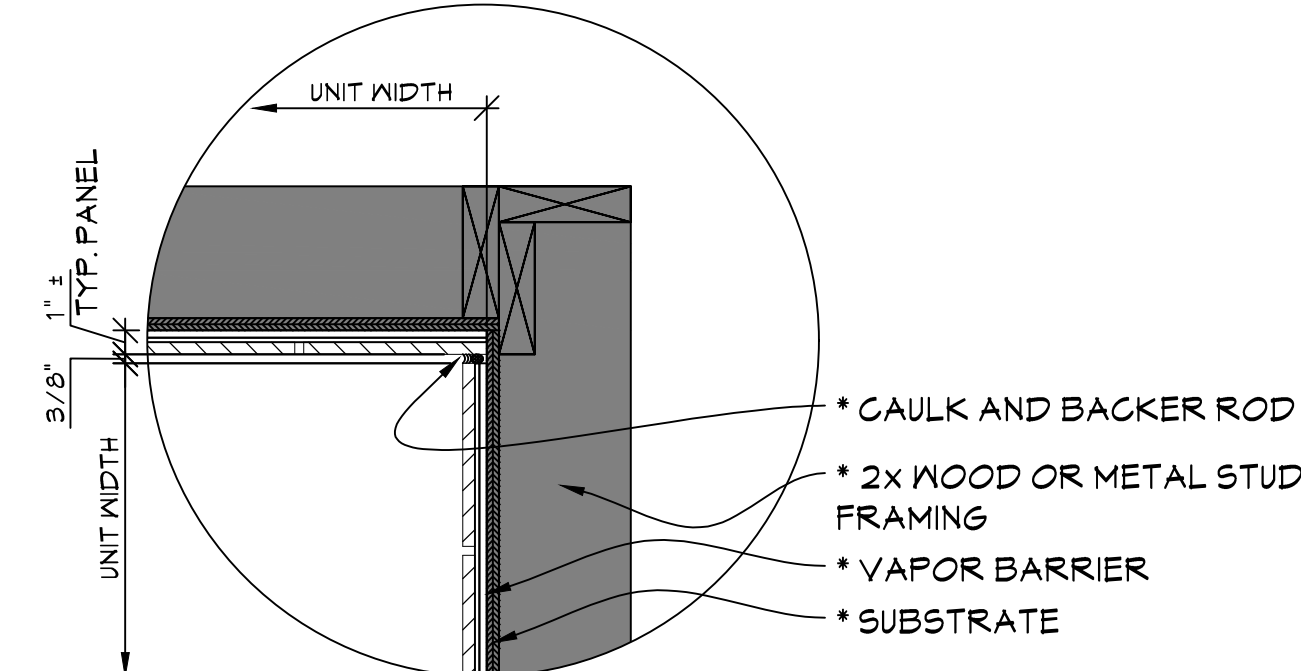
J WINDOW HEAD
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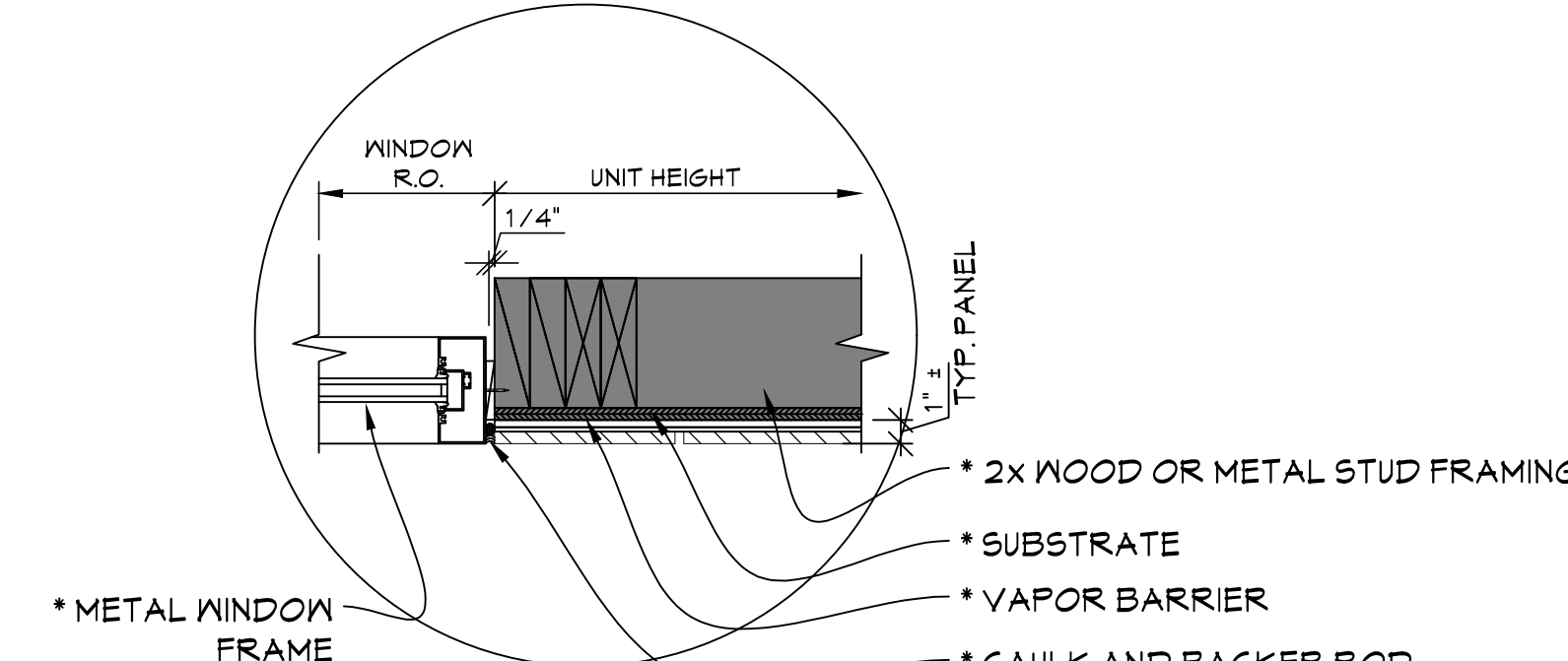
M PARAPET OF WALL
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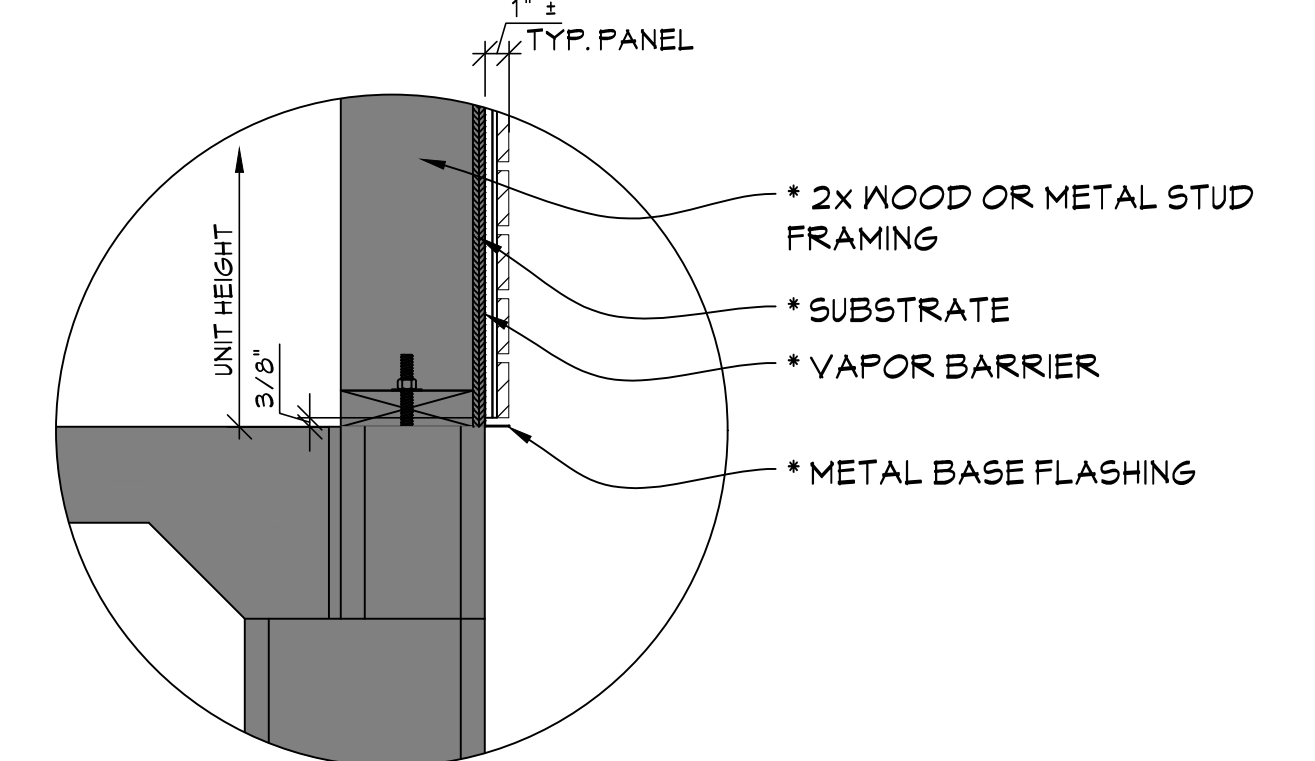
B HORIZONTAL JOINT
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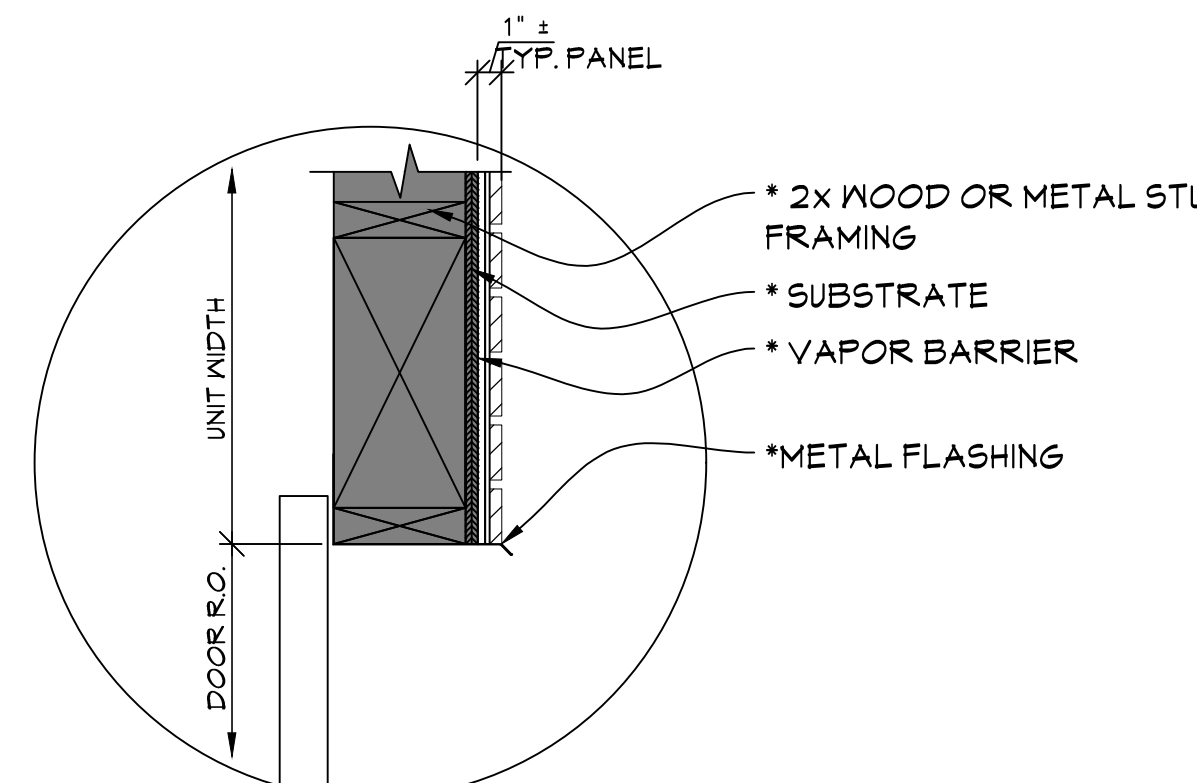
F INSIDE CORNER
SCALE 1-1/2" = 1'-0"



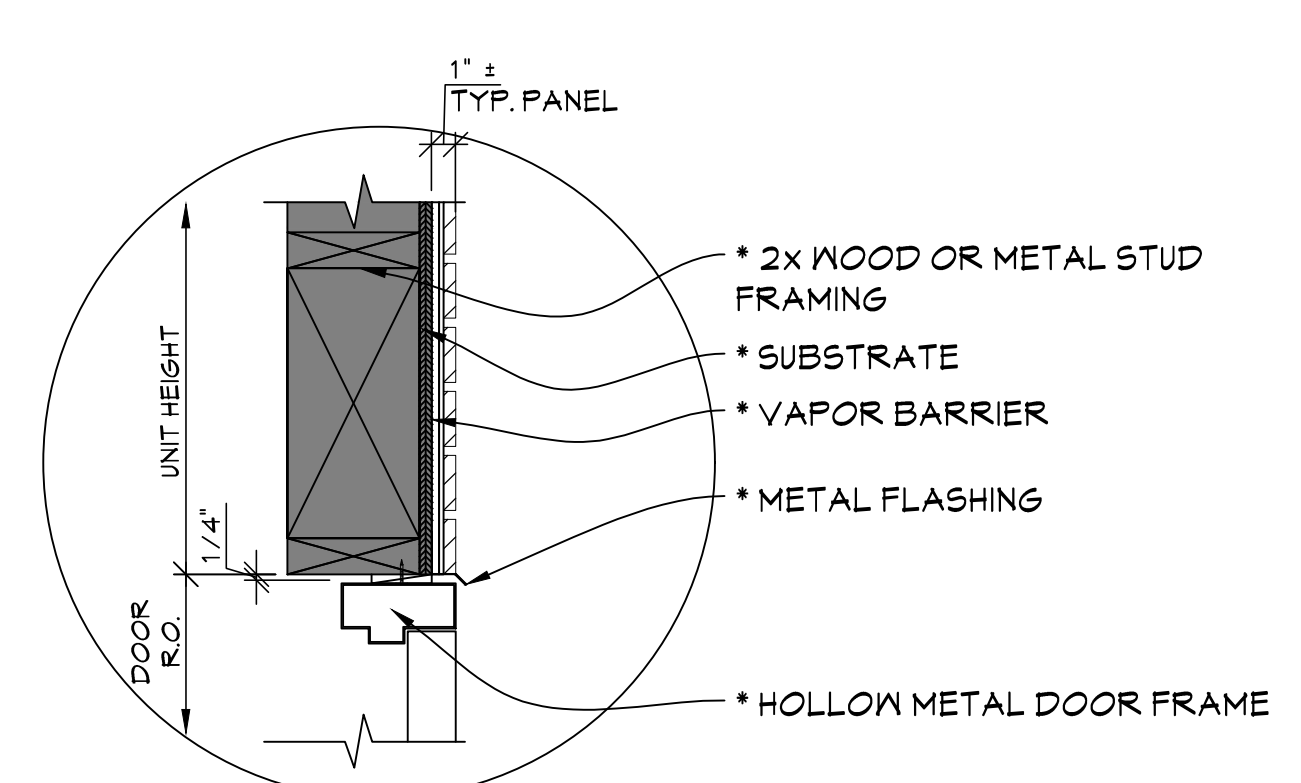
K WINDOW JAMB
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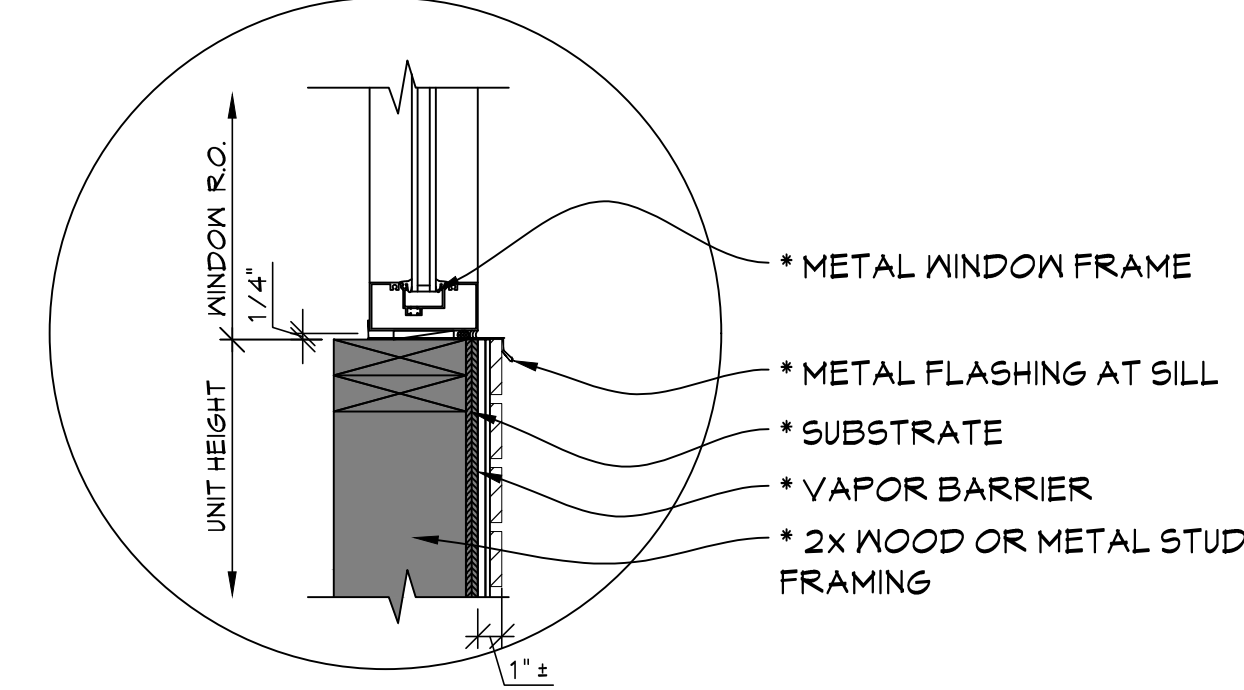
N BASE OF WALL
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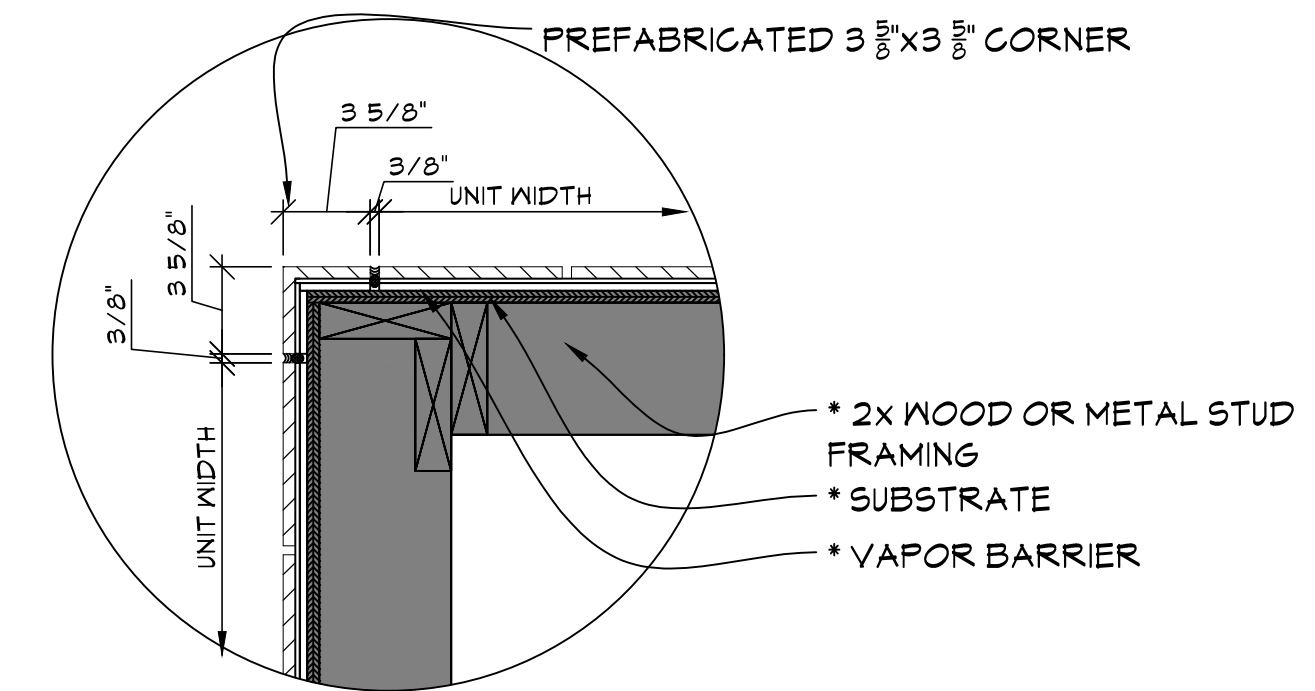
C OVERHEAD DOOR HEAD
SCALE 1-1/2" = 1'-0"



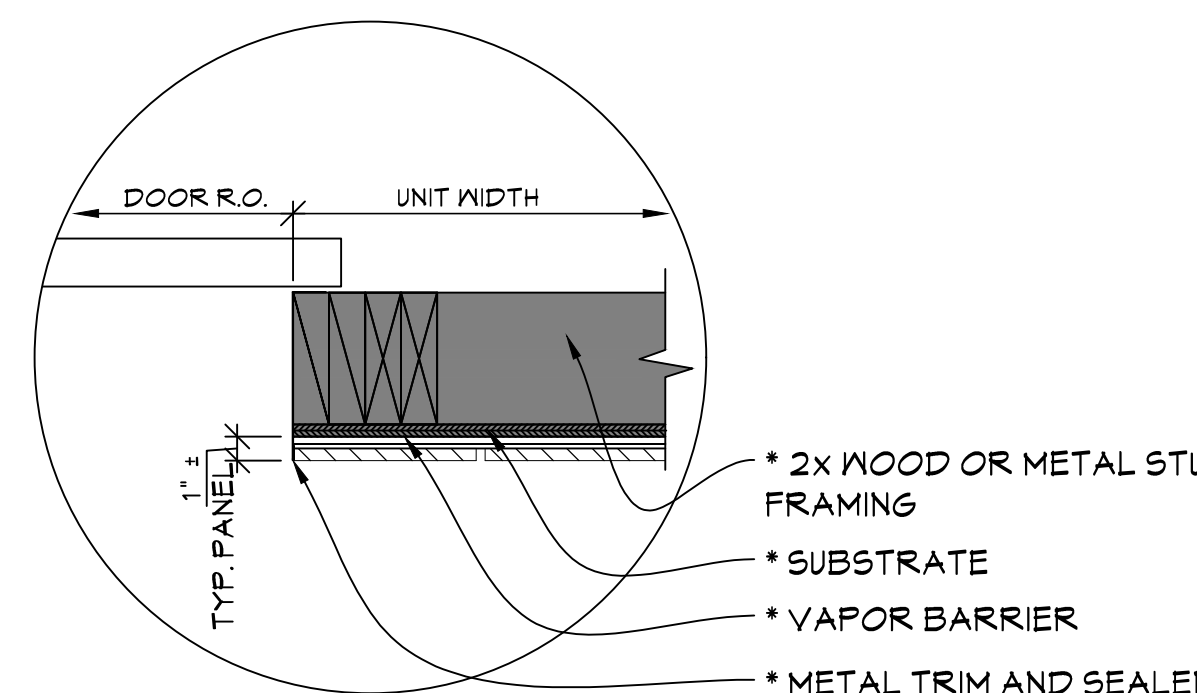
G HOLLOW METAL DOOR HEAD
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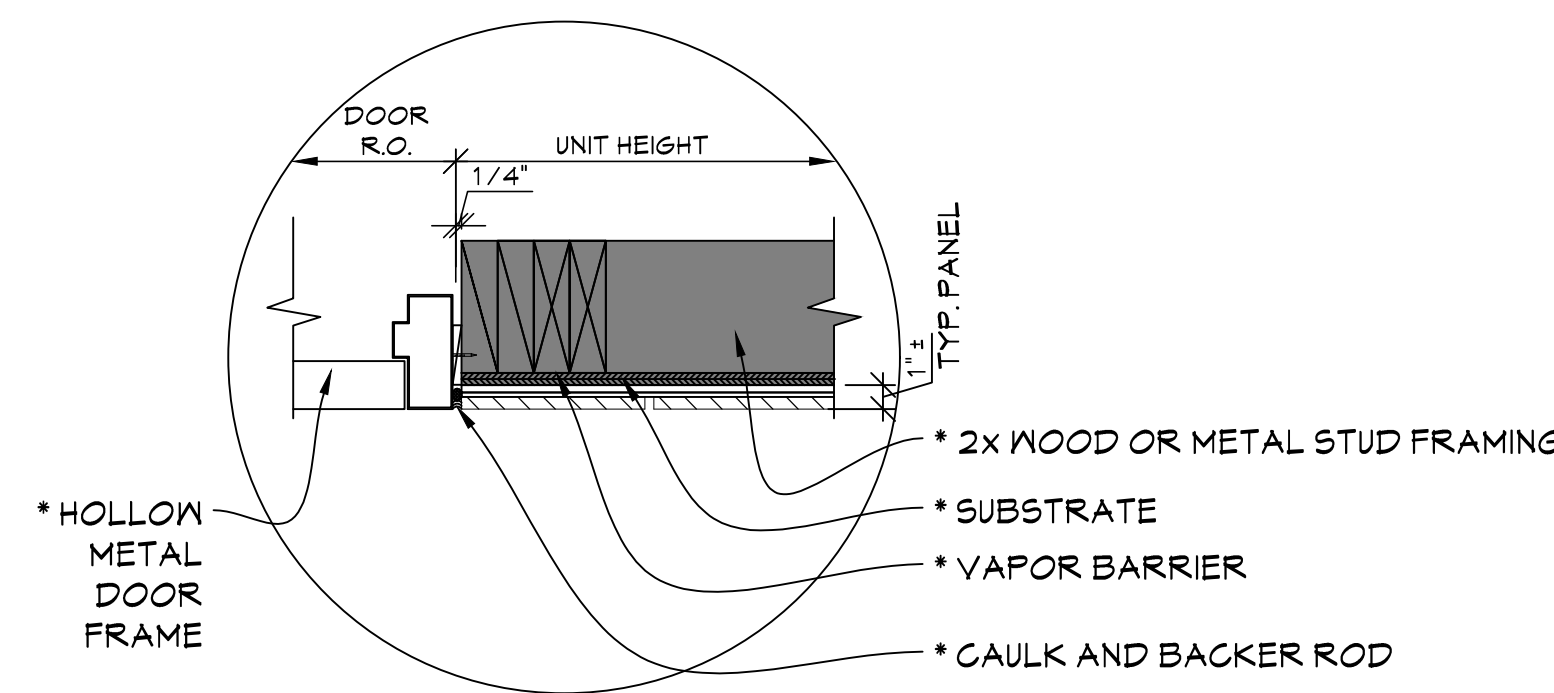
L WINDOW SILL
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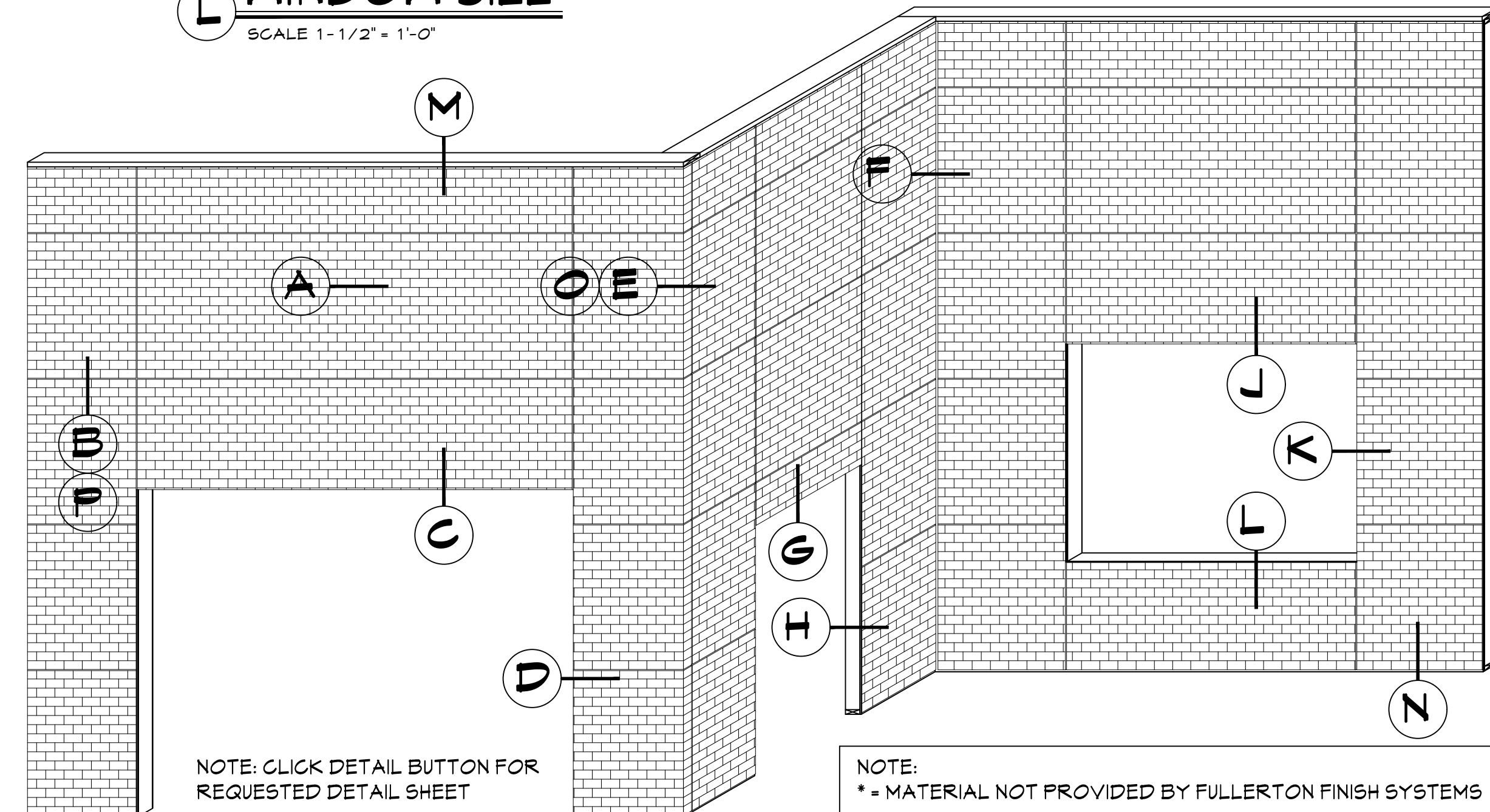
O OPTIONAL OUTSIDE CORNER
SCALE 1-1/2" = 1'-0"



D OVERHEAD DOOR JAMB
SCALE 1-1/2" = 1'-0"



H HOLLOW METAL DOOR JAMB
SCALE 1-1/2" = 1'-0"

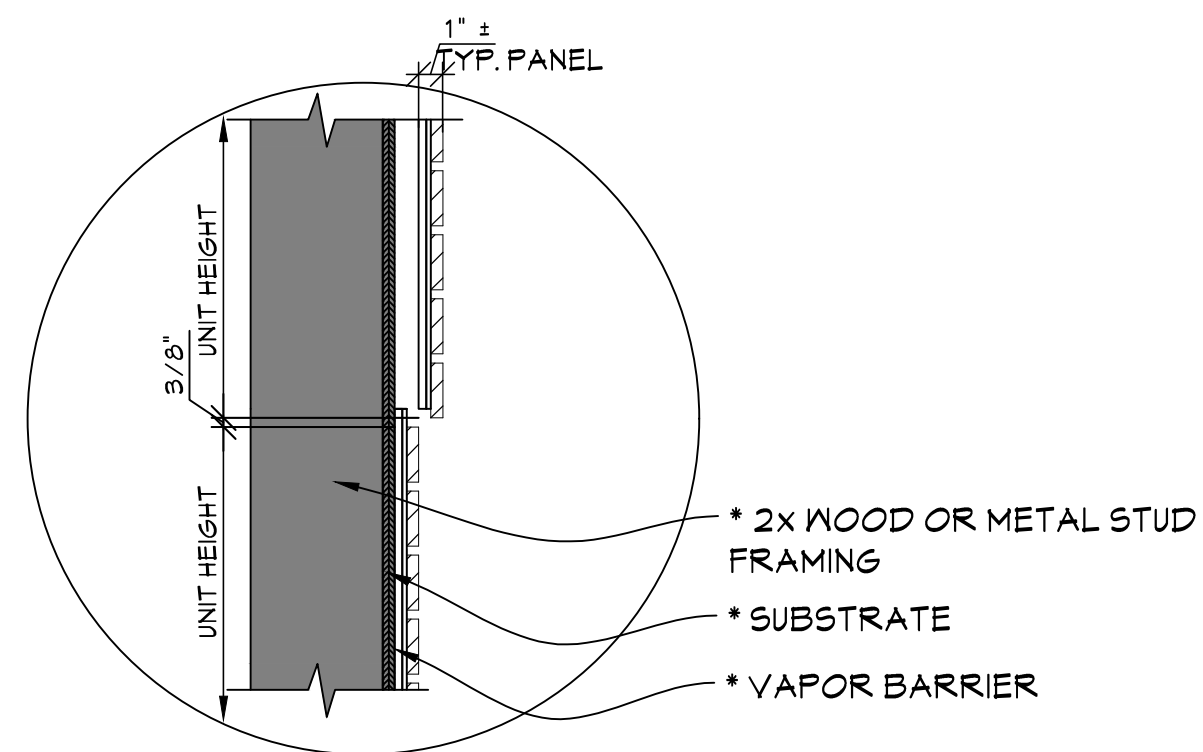


NOTE:
* = MATERIAL NOT PROVIDED BY FULLERTON FINISH SYSTEMS

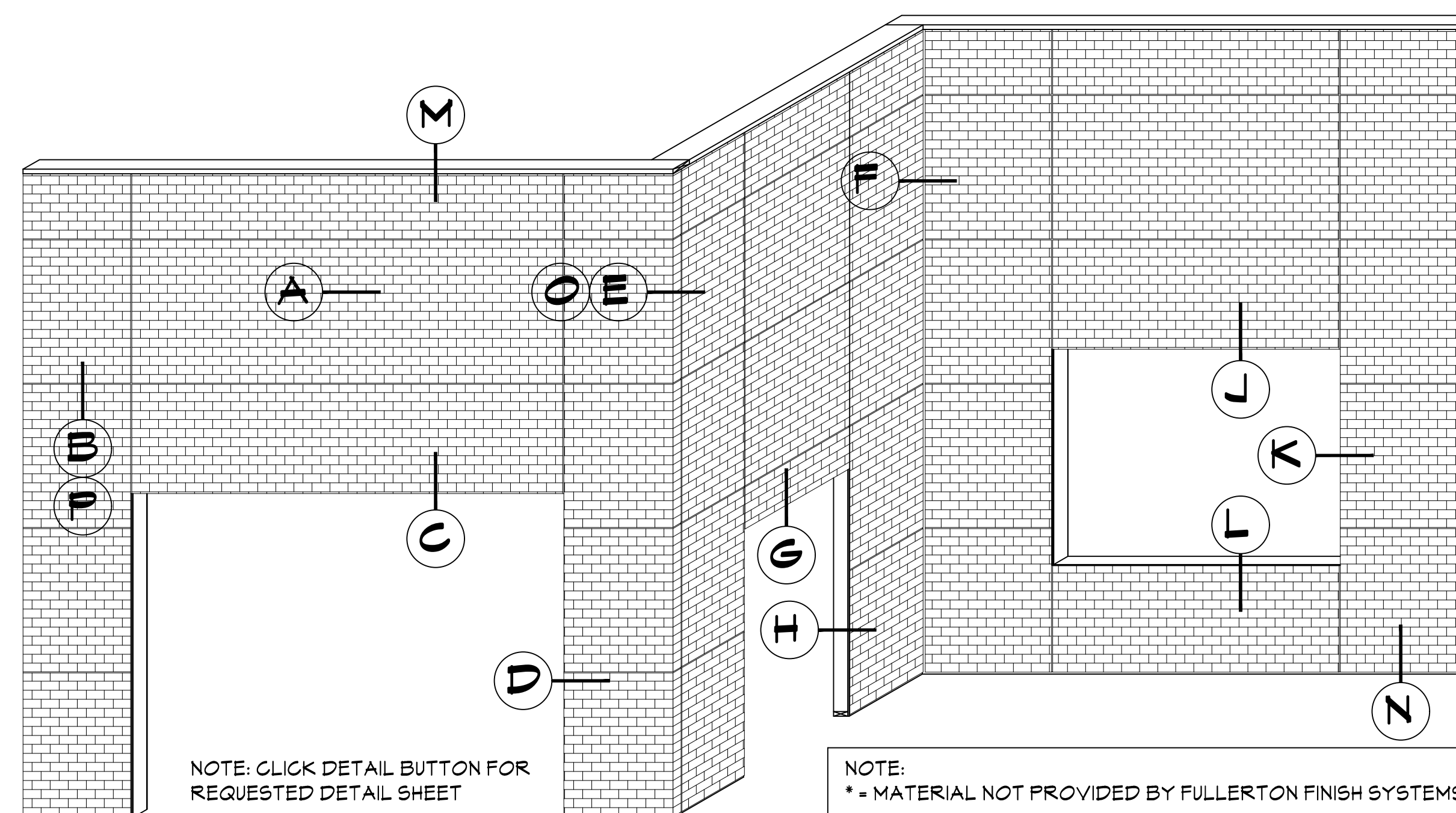
BRICKWAL

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P OPTIONAL HORIZONTAL JOINT
SCALE 1-1/2" = 1'-0"

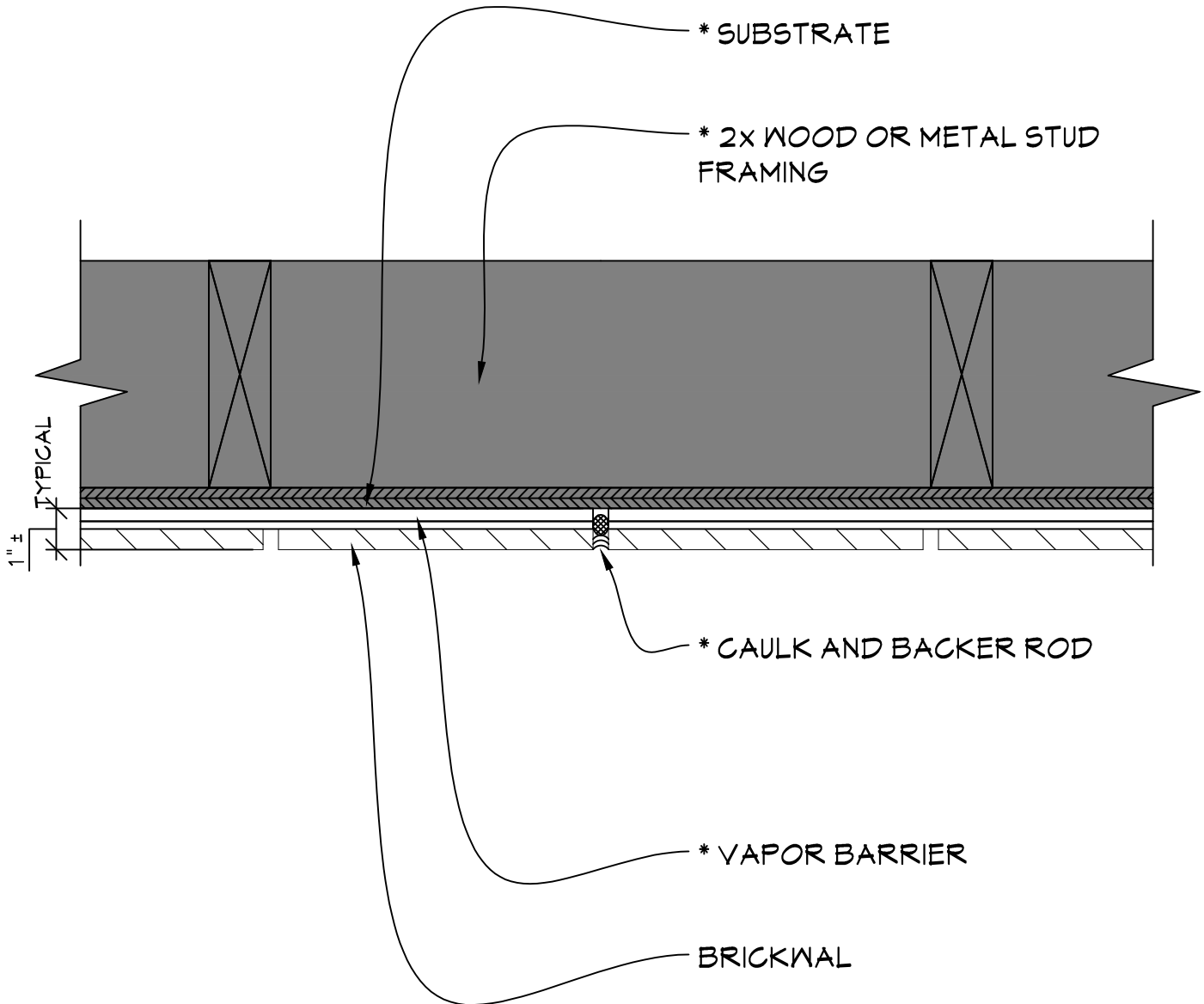


BRICKWAL

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BRICKWAL



TYPICAL VERTICAL DETAIL

SCALE: 3" = 1'-0"

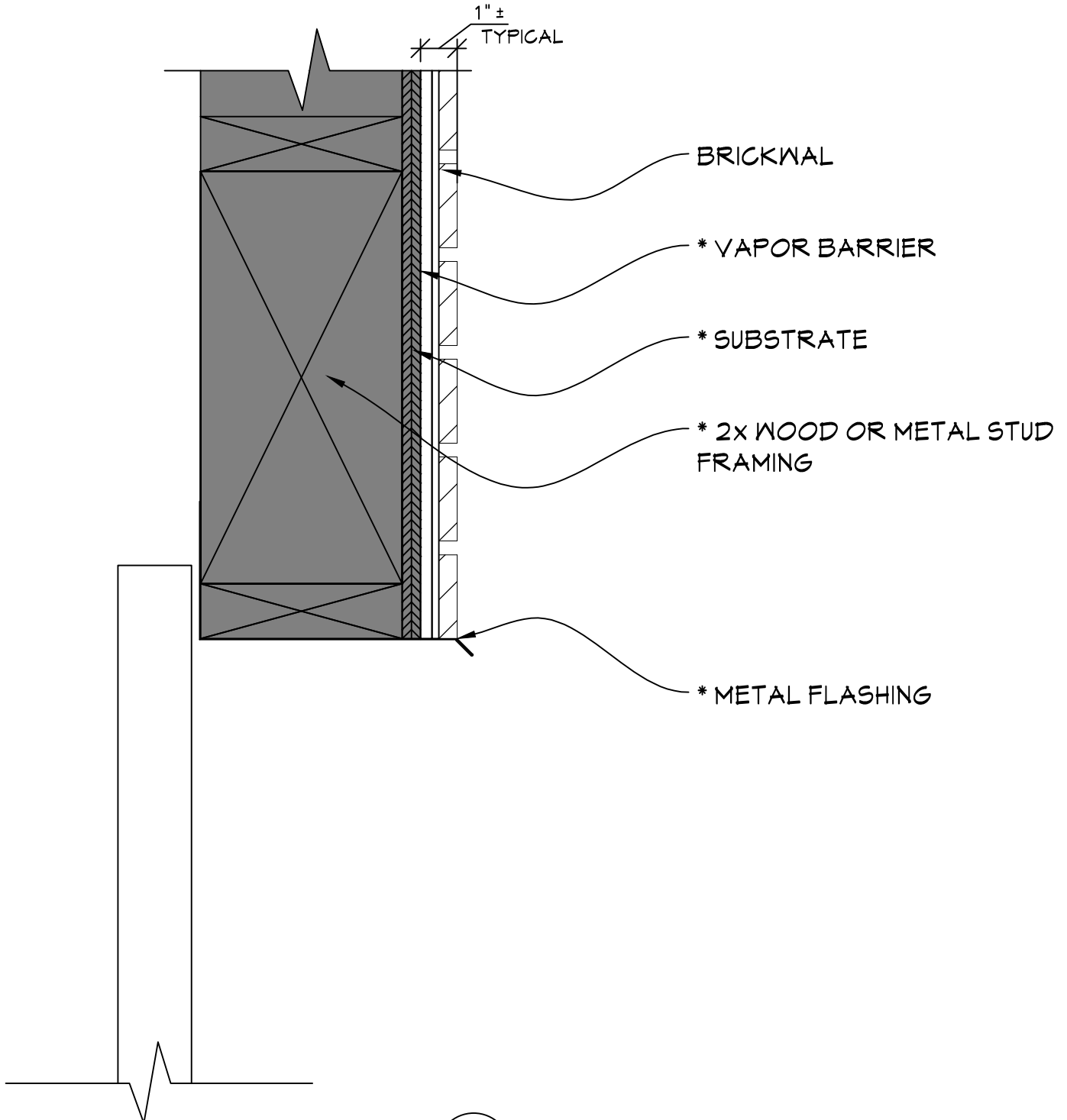
NOTE:

* = MATERIAL NOT PROVIDED BY FULLERTON FINISH SYSTEMS



NOTE:
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BRICKWAL



TYPICAL OVERHEAD DOOR DETAIL

SCALE: 3" = 1'-0"

NOTE:
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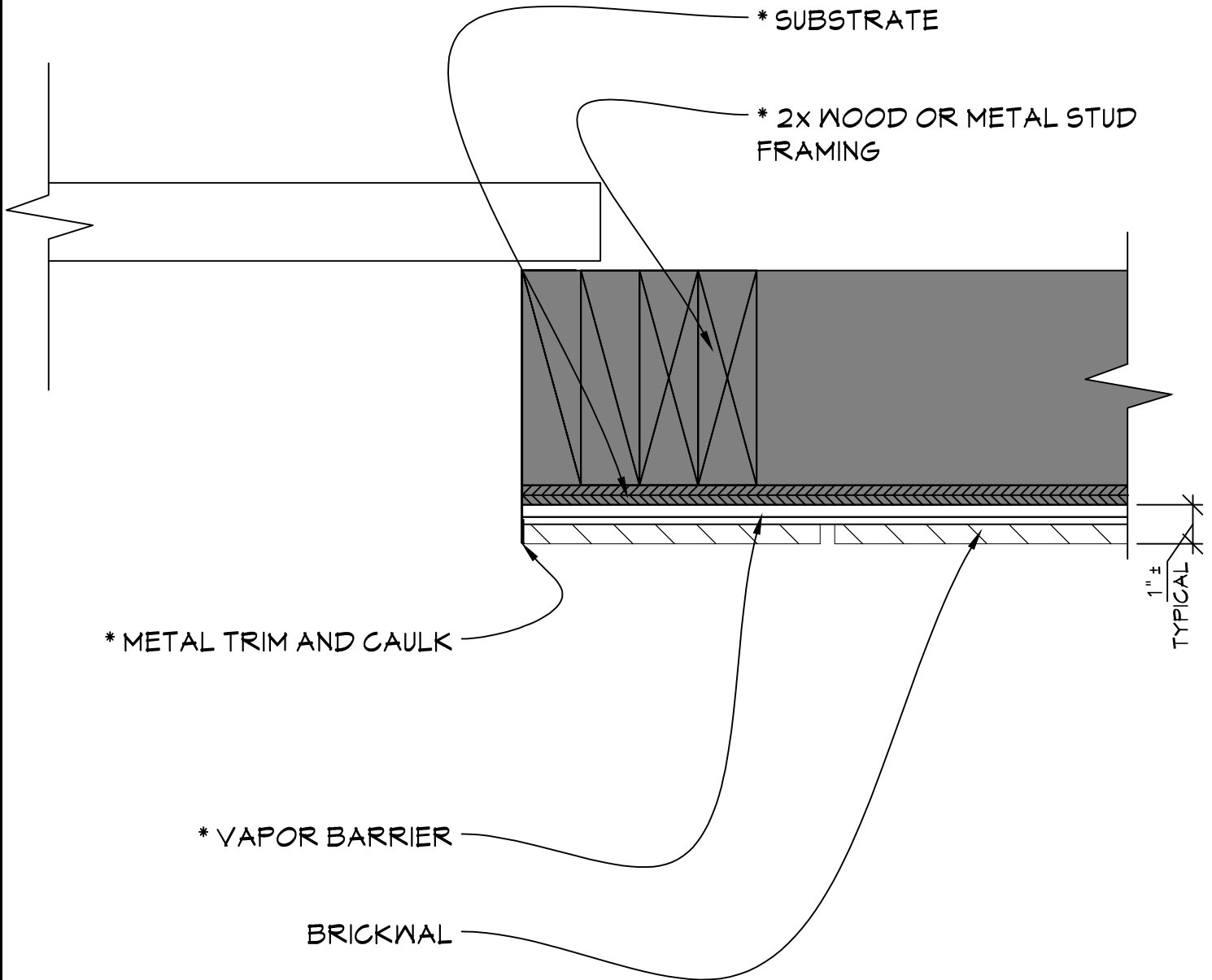
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CLICK FFS LOGO TO RETURN TO MAIN PAGE

BRICKWAL



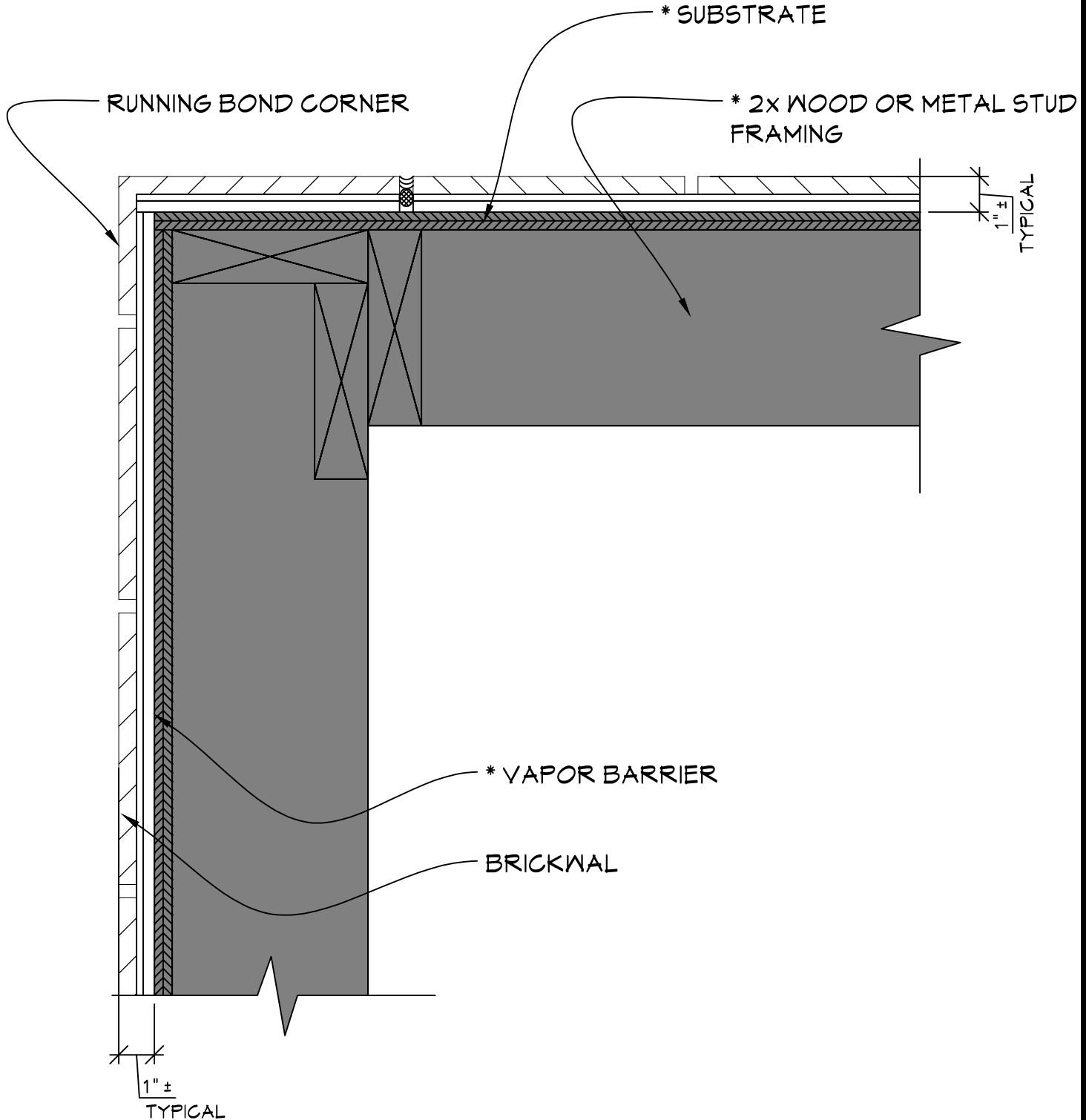
TYPICAL OVERHEAD DOOR JAMB DETAIL

SCALE: 3" = 1'-0"

NOTE:

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BRICKWAL

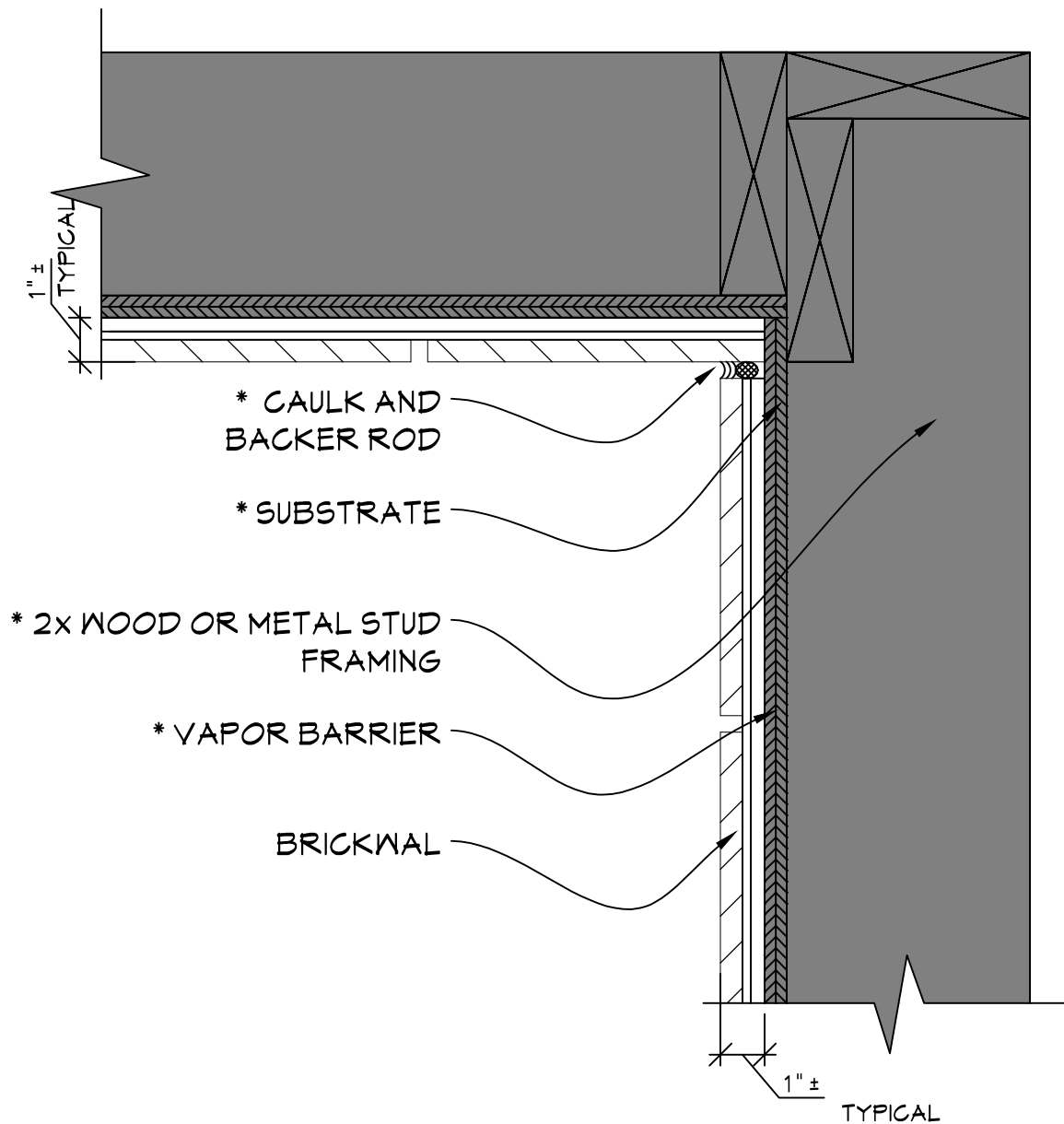


TYPICAL OUTSIDE CORNER DETAIL

SCALE: 3" = 1'-0"

NOTE:
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BRICKWAL

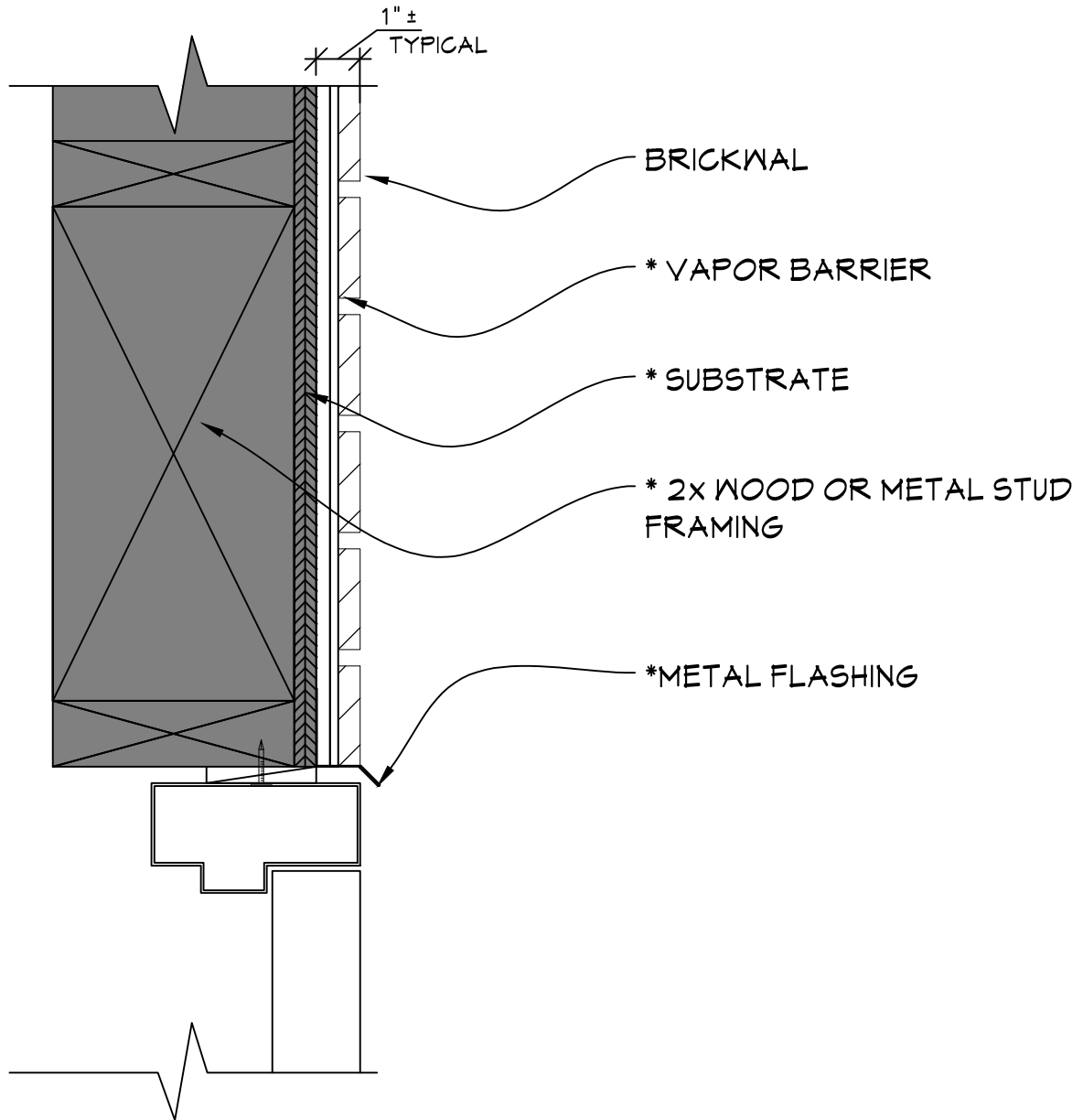


TYPICAL INSIDE CORNER DETAIL

SCALE: 3" = 1'-0"

NOTE:
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BRICKWAL

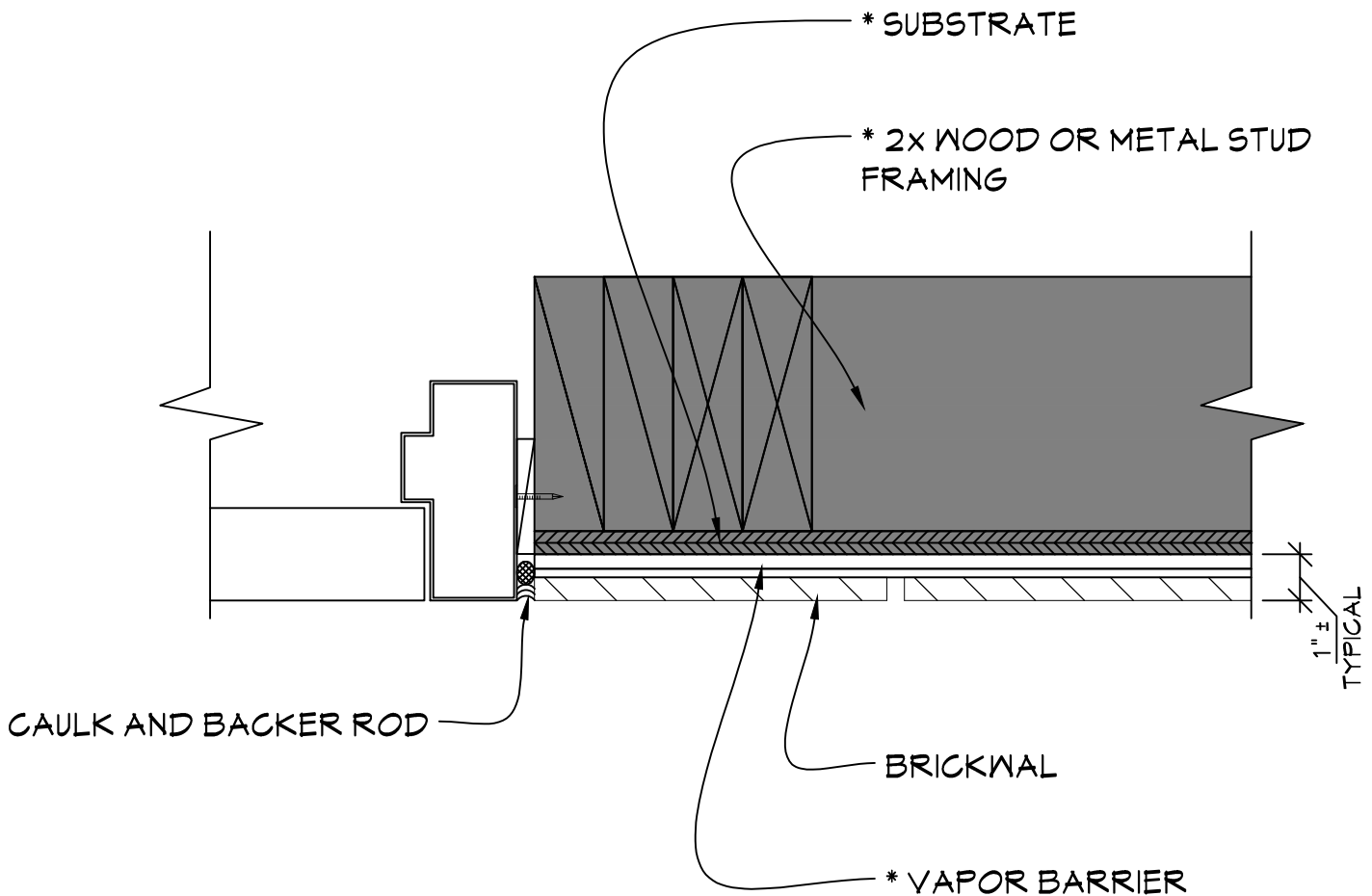


TYPICAL DOOR HEAD DETAIL

SCALE: 3" = 1'-0"

NOTE:
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BRICKWAL

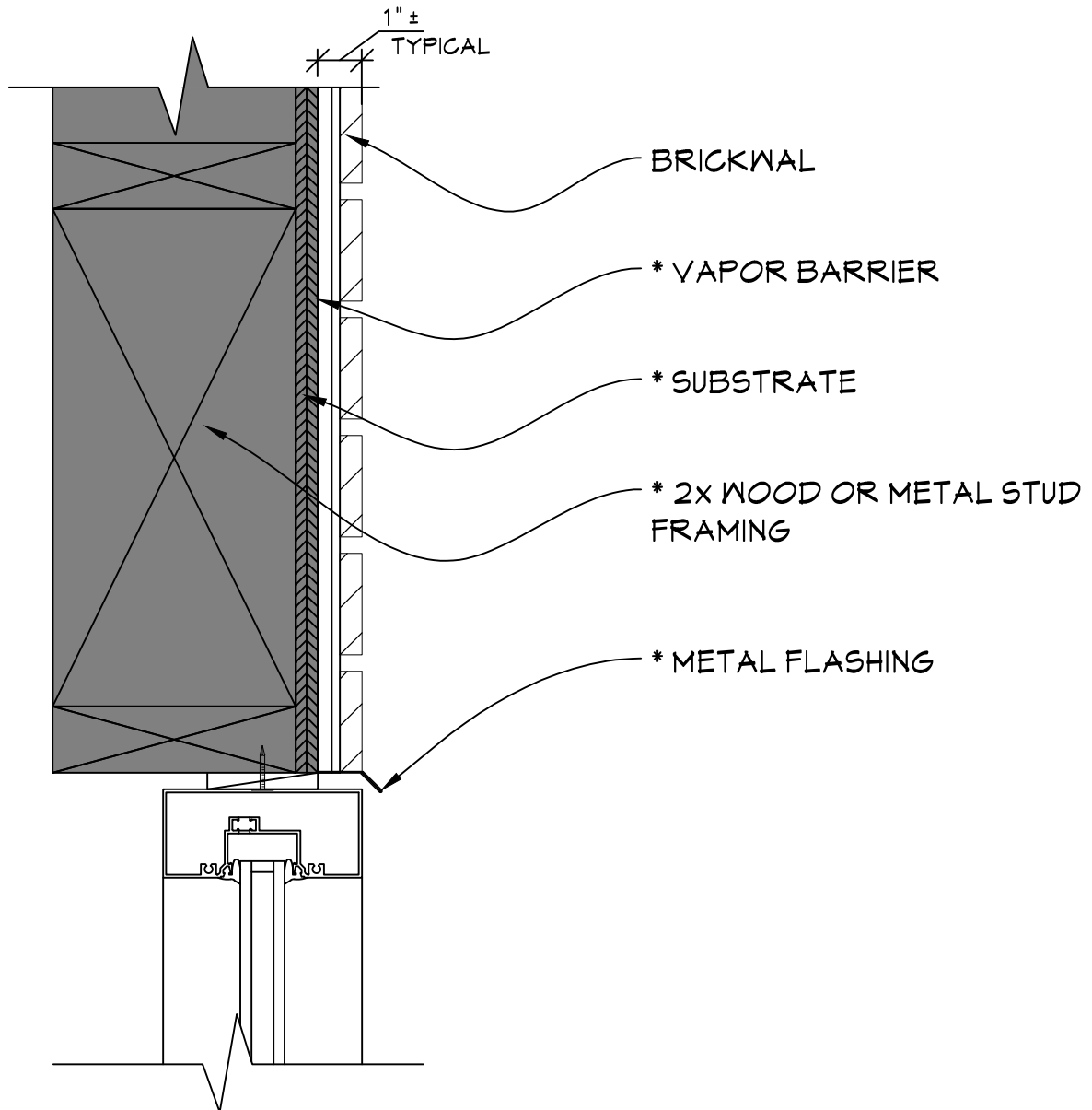


TYPICAL DOOR JAMB DETAIL

SCALE: 3" = 1'-0"

NOTE:
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BRICKWAL

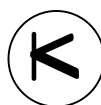
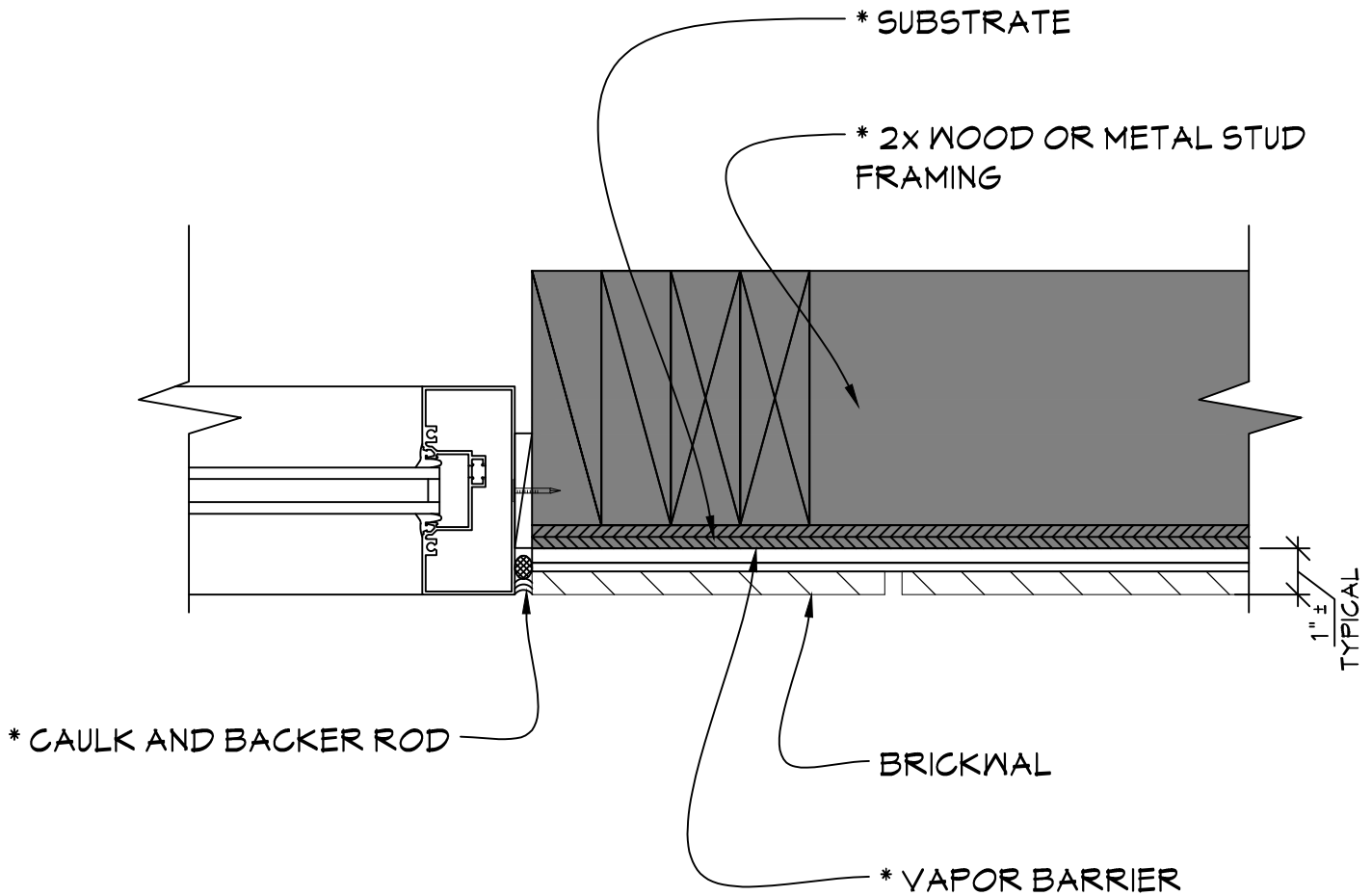


TYPICAL WINDOW HEAD DETAIL

SCALE: 3" = 1'-0"

NOTE:
* = MATERIAL NOT PROVIDED BY FULLERTON FINISH SYSTEMS

BRICKWAL

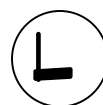
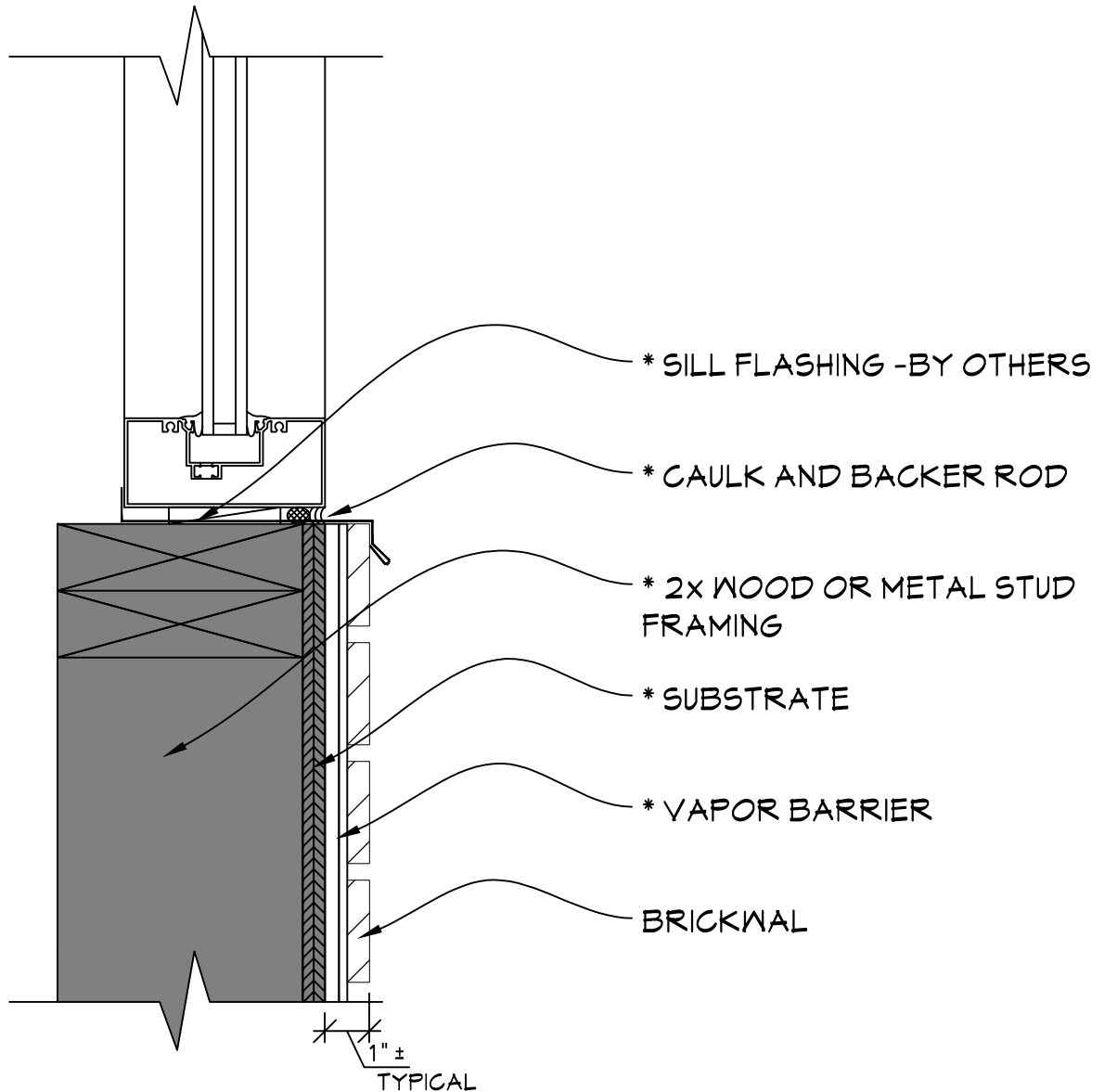


TYPICAL WINDOW JAMB DETAIL

SCALE: 3" = 1'-0"

NOTE:
 * = MATERIAL NOT PROVIDED BY FULLERTON FINISH SYSTEMS

BRICKWAL

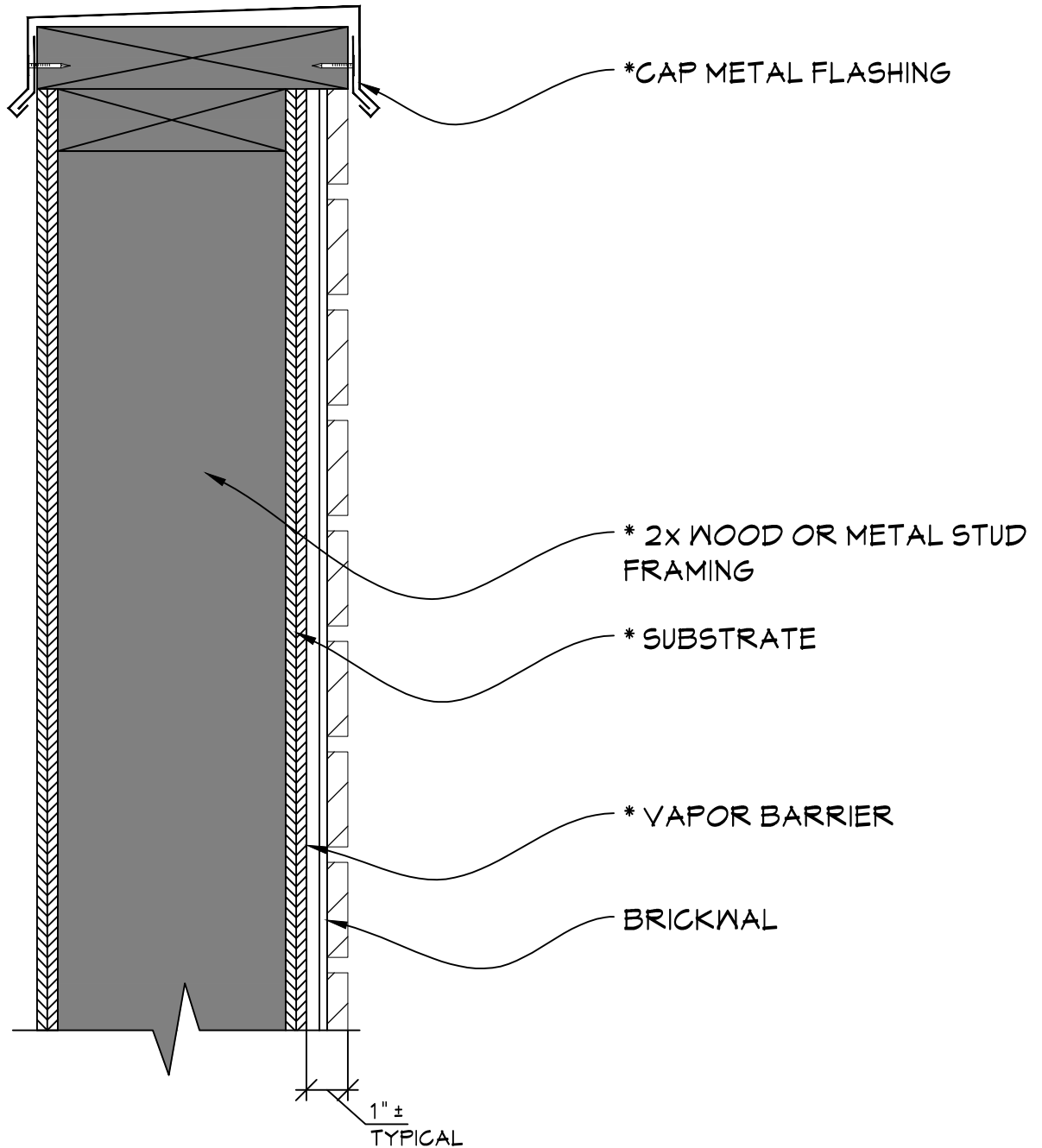


TYPICAL WINDOW SILL DETAIL

SCALE: 3" = 1'-0"

NOTE:
* = MATERIAL NOT PROVIDED BY FULLERTON FINISH SYSTEMS

BRICKWAL



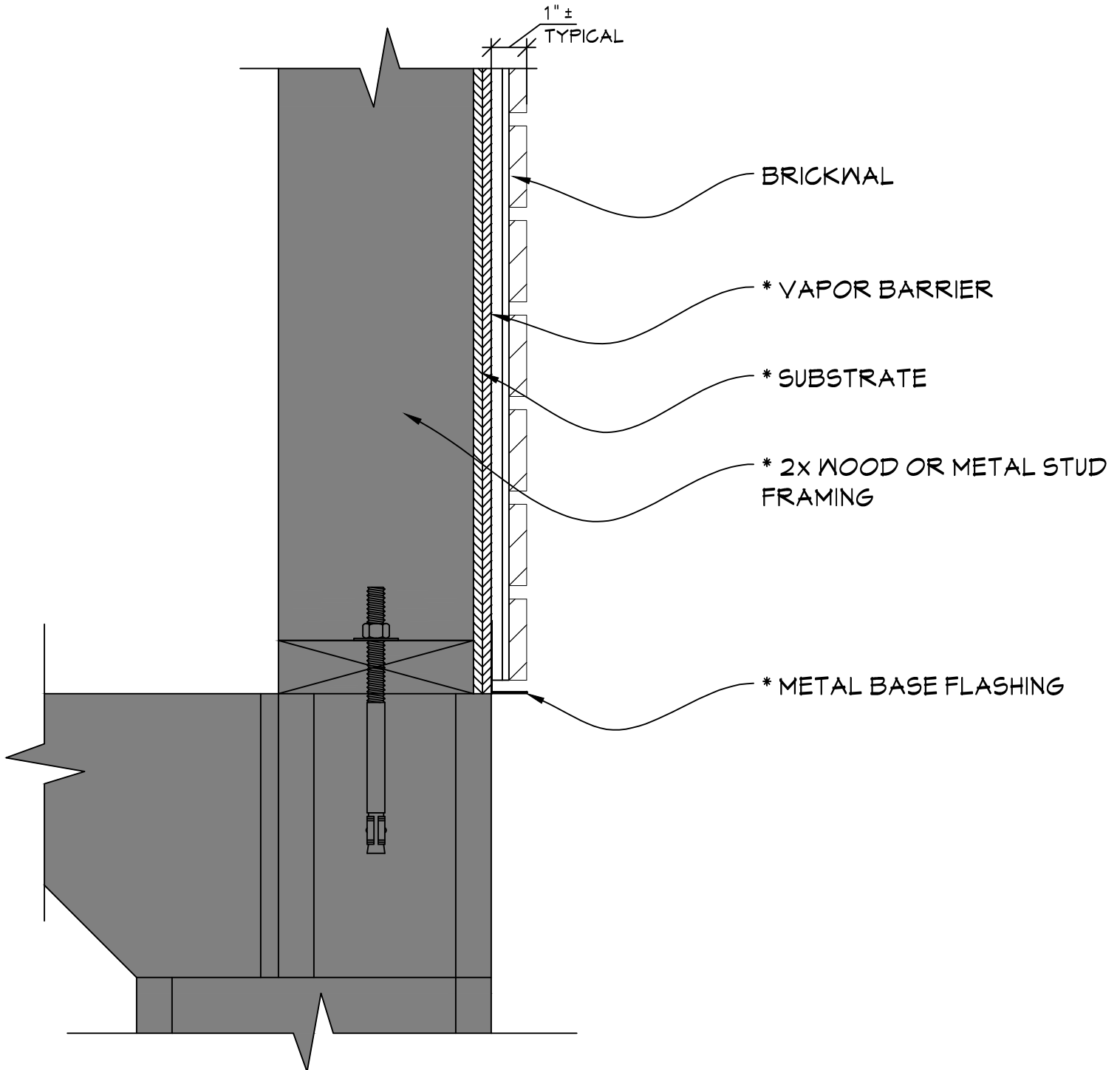
TYPICAL PARAPET DETAIL

SCALE: 3" = 1'-0"

NOTE:

* = MATERIAL NOT PROVIDED BY FULLERTON FINISH SYSTEMS

BRICKWAL

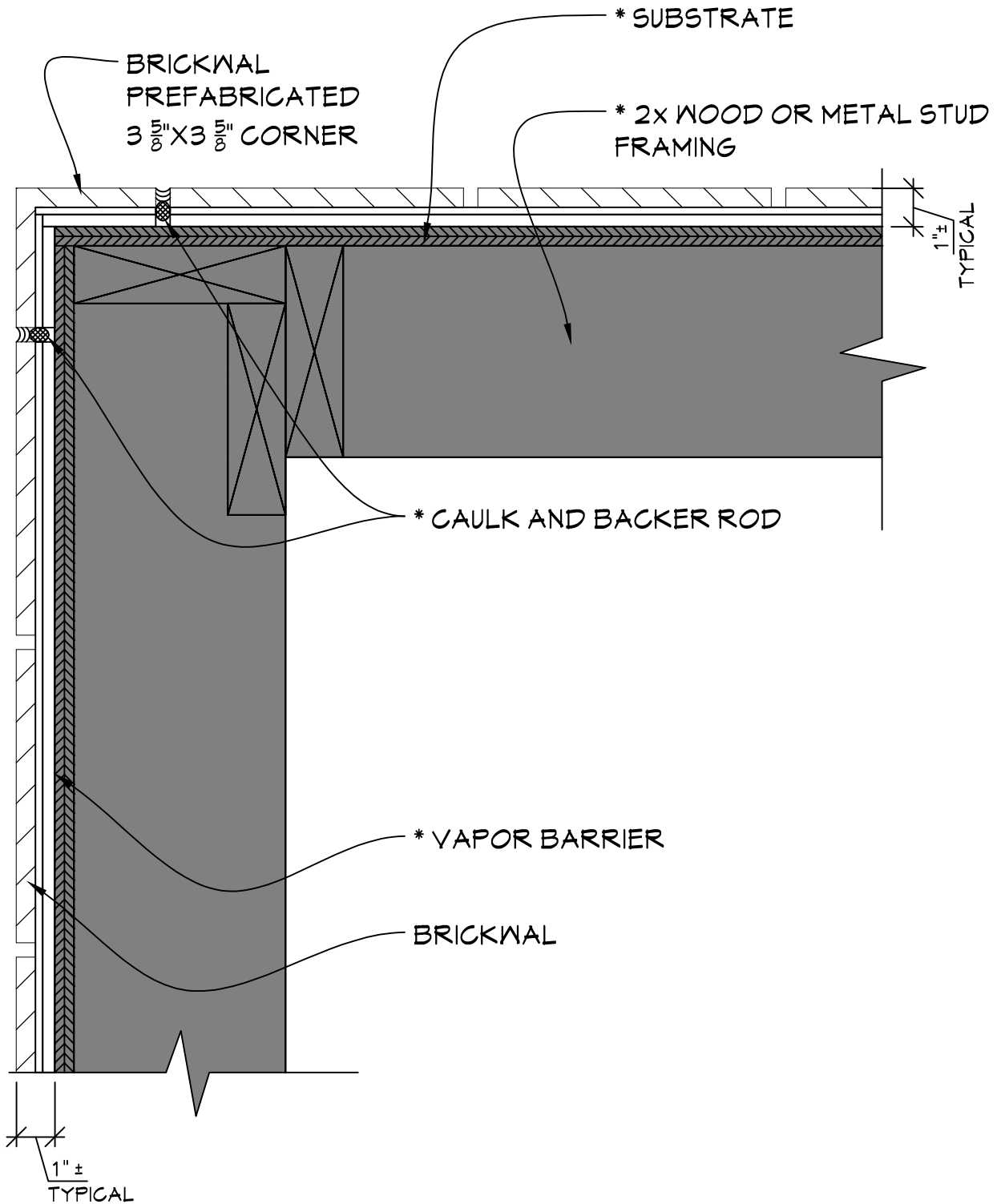


TYPICAL BASE DETAIL

SCALE: 3" = 1'-0"

NOTE:
* = MATERIAL NOT PROVIDED BY FULLERTON FINISH SYSTEMS

BRICKWAL

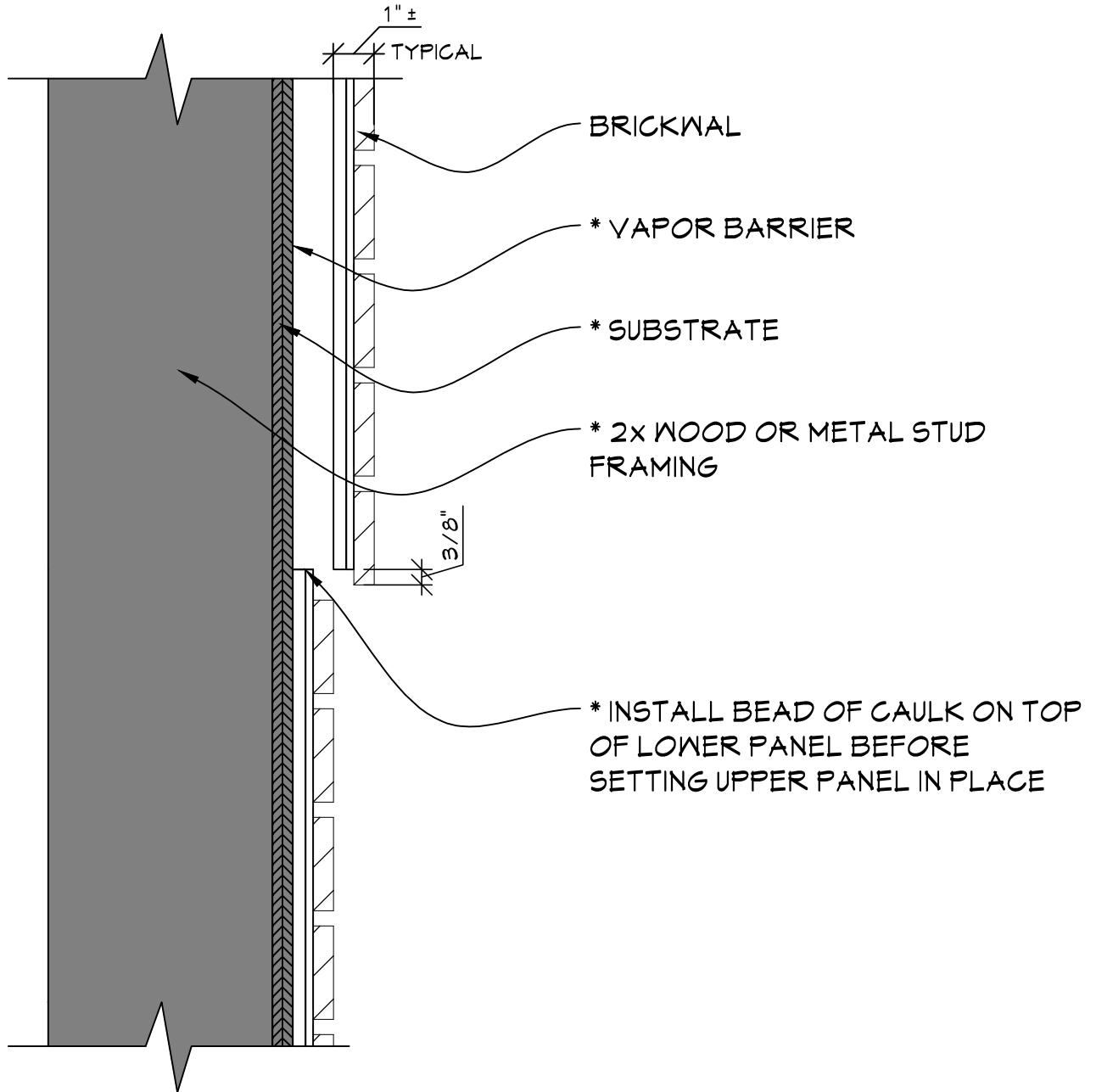


OPTIONAL OUTSIDE PREFAB CORNER DETAIL

SCALE: 3" = 1'-0"

NOTE:
 * = MATERIAL NOT PROVIDED BY FULLERTON FINISH SYSTEMS

BRICKWAL



OPTIONAL 3/8" SHIP LAP HORIZONTAL DETAIL

SCALE: 3" = 1'-0"

NOTE:
 * = MATERIAL NOT PROVIDED BY FULLERTON FINISH SYSTEMS

SECTION SIX – Installation Instructions



Attached are general guidelines for installing each type of exterior finish panels.
It is recommended to check with local authorities to determine the code requirements for your area.



BRICKWAL

Exterior veneer finish system

New Building code requirements vary and it is suggested that you check with local authorities to determine requirements for your area. Carefully read all installation instructions before proceeding with installation. Observe all safety precautions.

The installation information in this manual is a guide for the builder to use in conjunction with FULLERTON installation drawings (if required) supplied with the veneer panels. This manual is designed to help plan and organize the project by establishing an installation sequence.

Panels referred to in this guide must be installed by qualified personnel and in accordance with the manufacturer's instructions. FULLERTON FINISH SYSTEMS will provide training for the installation and handling of the panels at no charge at their plant in Sand Springs, Oklahoma (918) 246-9995. Field assistance is available upon request by Fullerton at a minimal charge.

HANDLING AND STORAGE

Panel pallets or crates will arrive on flat bed trailers or LTL trucks. If panels arrive without a tarp or stretch wrap protective cover, it should be noted on the driver's freight bill. Note any panel damage on the freight bill and file a claim if needed.

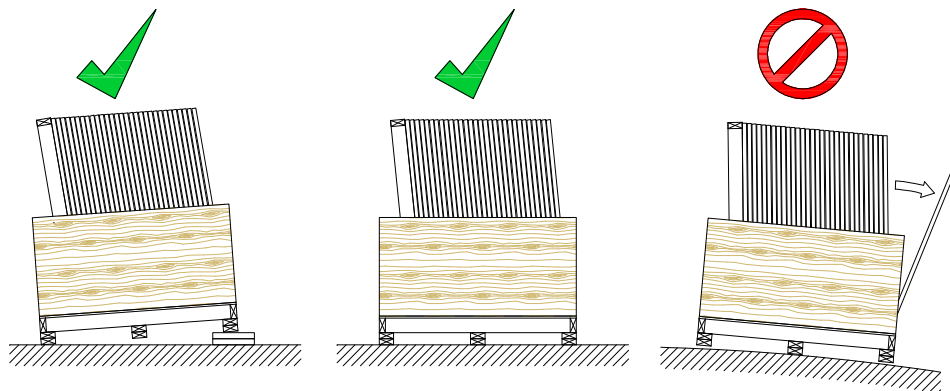
Caution should be taken when unloading from shipping vehicles as each crate can weigh up to 4000#. A maximum of 15 panels will be included in one crate with each panel weighing approximately 240# based on a standard 4x8 sheet.

Panels should be unloaded as pallets or crates and not as individual pieces. Store pallets and/or crates on a suitable flat surface above grade after removal from shipping vehicle. See fig. 1

Individual pieces should be carried vertically to avoid excessive flex and possible damage. When transporting in the horizontal position additional care should be taken to ensure proper support is provided under the finish sheet to prevent droop and possible damage.

CAUTION

WHEN REMOVING BANDING AND OPENING CRATE THE MATERIAL INSIDE CAN FALL FORWARD IF NOT STORED PROPERLY. PALLET SHOULD BE FLAT OR TILTED TO THE REAR



Do NOT remove rear support framing.

Do Leave min one side of crate attached to support framing

Fig. 1 – Crate Storage

SURFACE PREPERATION

Inspect the areas where panels will be installed. Determine that the framing will be sufficient to accept proper fastening needed for panel application. A minimum $\frac{7}{16}$ " OSB or $\frac{1}{2}$ " plywood sheathing is required if fastening directly to substrate. Verify that the appropriate weather barrier, flashing and caulking have been installed, or that they will be as part of your installation package. Check to ensure that walls are plumb and square and identify any defects or protrusions. Contact the builder, registered design professional or contractor to correct any deficiencies before you proceed.

BEFORE YOU BEGIN

1. Before doing anything, review the Fullerton shop drawings (if supplied) that came with your panels. Get familiar with all the details and sections. These drawings will best illustrate how veneer panels are attached and joints are caulked.
2. Decide on which elevation to begin the panel installation process. Typically the rear is a good place to start as you may hide any mistakes that may occur while getting familiar with the panel installation.
3. Only place enough panels to the side of the project currently being worked on. Minimizing the amount of times the panels are moved will reduce the possibility of damage. Refer to the Fullerton shop drawings (if supplied) for schedule, quantity and identification markers. Identification markers are provided on the drawings for proper placement of each panel.
4. Determine if you have the correct fasteners need for the project. See the fastener section of this manual for additional information.

INSTALLATION

Preparation

1. Install flashings, weather barriers and seal exterior wall surface prior to beginning panel installation. If panels are to be installed directly onto metal there must be bond breaker tape installed at panel joints for proper caulk performance.
2. Ensure that a straight, level, horizontal reference line has been established to follow during installation.
3. Panels should be installed one row at a time working upward toward the designated height.

Corners

1. Work should begin with installation of pre-fabricated corner panels or with standard panels that will butt or miter into the corners. This is typically the most visual location and the corners should not be cut unless absolutely necessary. Refer to fig. 2,3,4 for corner detail.

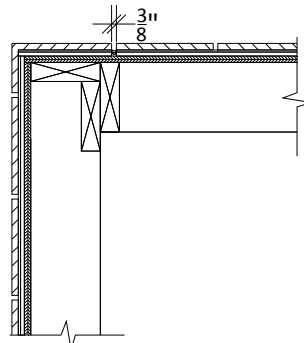


Fig. 2 - Outside Corner

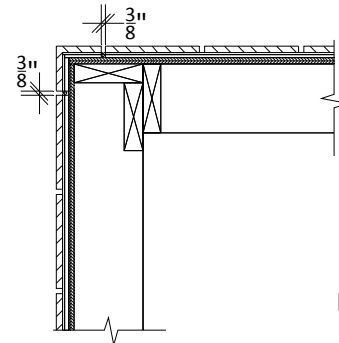
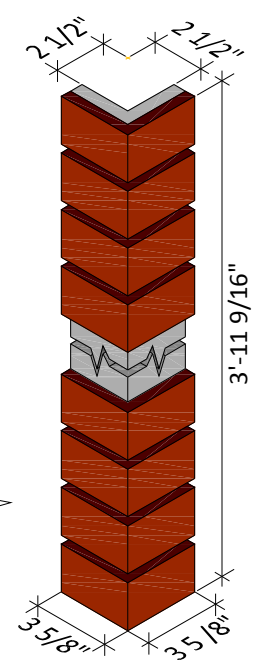


Fig. 3 - Outside Corner



Pre-Fabricated Corner

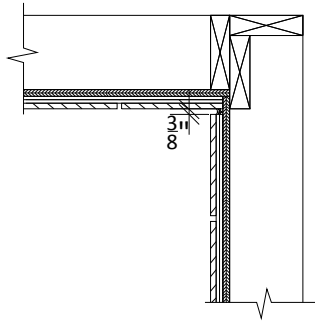


Fig. 4 – Inside Corner
(Overlap direction may vary)

2. Identify the corner and install panels to the left and right side if applicable. If only one outside corner is available, start install at that location. Install panels as shown on the Fullerton shop drawings or as shown in this manual.

Panels

1. Continue installation with the intermediate panels filling the space in-between corner panels. Special care should be taken with the planning and the installation of these panels. To provide the best overall look measure the distance between corner panels and decide if the final panel install will provide the look required. Ensure that you have provided the correct spacing between panel edges. See fig. 5

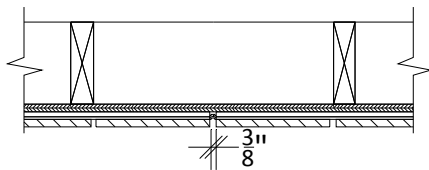


Fig. 5 - Vertical Panel Joint Spacing

2. By planning you should be able to avoid visually unpleasant joints that may contain items such as “slivers” of material.
3. Cutting panels should be completed on a stable surface with proper support members for the panels. Allowing the material to droop or sag will result in damage to the product. Cutting should be performed with the product facing down while using a circular saw to prevent

chipping. When marking the cut location care should be taken to ensure that the resulting cut is visually acceptable as small “slivers” of brick might occur if cuts are close to the edge of a brick. Cutting can also be performed using a grinder if preferred. Below are possible types of equipment

- a. Circular saw w/ dry cut diamond blade
- b. 4” handheld grinder w/ dry cut diamond blade

Fasteners

Mechanical fasteners are required for proper installation of panels. To determine the proper fasteners the base material will need to be identified. It is suggested that you consult with your local design professional to ensure that the wall structure will be able to accept the additional weight of the panels. Below is a list of fasteners typically used during installation.

Wood Fastener

#6x 1 ⁵/₈” trim head square drive with needle point

Metal Fastener

#6 x 1 ³/₈” trim head square drive with drill point

Masonry Fastener

³/₁₆” x 1 ³/₄” Philips head (Tapcon)

Note that the above fasteners are used for a general guide, your project may require specific fasteners. Please consult a Fullerton representative with any questions.

Fastening

1. Place required panel into position following all guidelines to ensure proper installation.
2. Ensuring that there are proper attachment points at fastener locations. See fig. 6.1-6.5 for typical wall type construction.

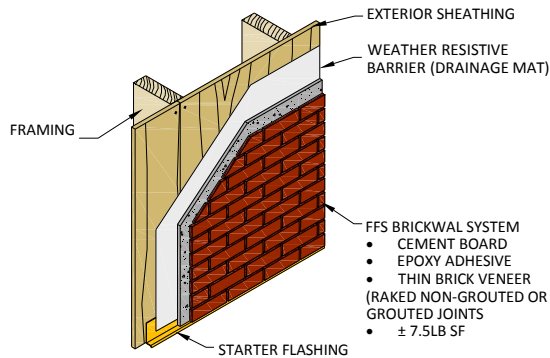


Fig. 6.1 – Standard Wall Construction

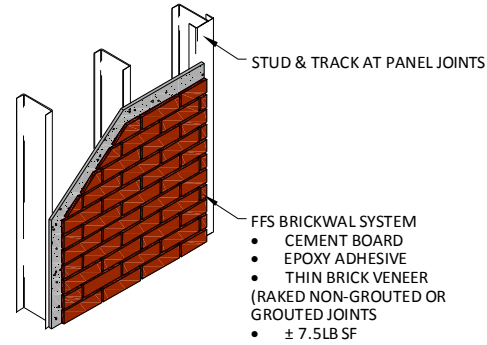


Fig. 6.4 – Stud and Track at Joint

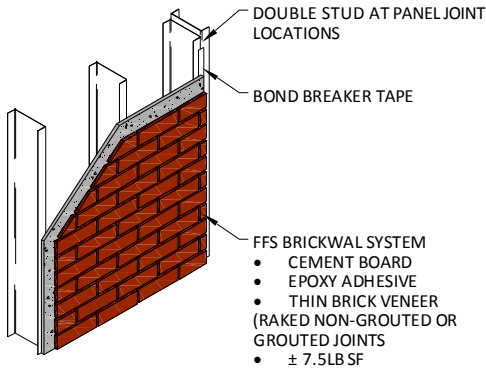


Fig. 6.2 – Metal Stud Wall

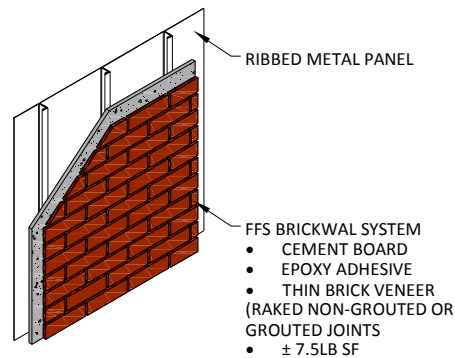


Fig. 6.5 – Ribbed Metal Panel

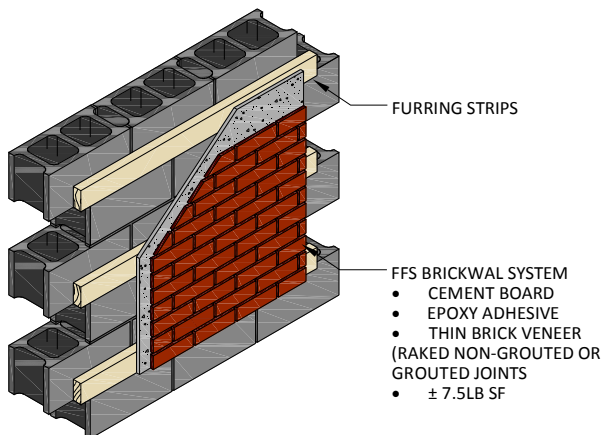


Fig. 6.3 – Furred Wall

- Fastener spacing is typically 12" on center along all edges of the panel and 16" on center throughout the middle of the panel. To ensure that the edges do not become damaged fasteners should remain a minimum $\frac{3}{4}$ " from panel edges. See fig. 6
- Pre-drill holes into panel with $\frac{1}{8}$ " masonry bit. It may be required to relieve the surface with a countersink bit at fastener locations to flush the fastener head with the face of the panel surface. The type of fastener used will determine if a countersink is needed.

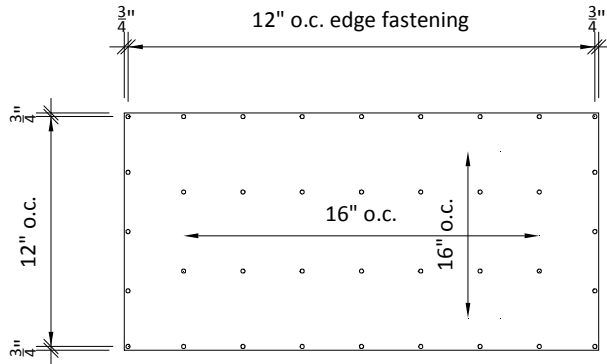


Fig. 6 - Fastener Spacing Diagram

- Once finished with the first level of panel installation continue to the second level. Installation will be the same as the first level. Caution should be taken as your height of installation increases as the panels are very heavy. If necessary equipment can be utilized to help during the installation. It is the responsibility of the installer to determine the proper use and attachments of panels to such equipment. (Fullerton can suggest types and uses of equipment if requested) Be sure to allow for horizontal joint spacing unless noted otherwise. See fig. 7

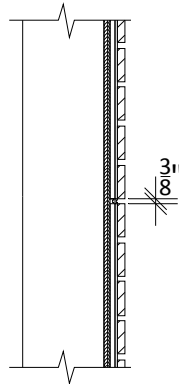


Fig. 7 – Horizontal Panel Joint Spacing

CAULKING

After installation of all panels caulking should be performed to seal all edges.

CLEANING

After installation of panels and installation of caulking the finished exterior should be washed to remove any loose or foreign materials produced during installation. The use of a standard water hose should be enough to clean the surface. If there are any stains on the exterior surface that cannot be removed with standard water pressures please consult a Fullerton representative.

SECTION SEVEN – Warranty

Due to our factory setting and exacting process, we provide you with panels that are outstanding in quality and more consistent in quality than typically provided with a field framed approach. Fullerton Finish Systems offers warranties on the following product line:

- **BrickWal**

Manufacturer to warranty from date of purchase against defective materials or workmanship for a period of 5 years



SECTION EIGHT – BrickWal Care and Maintenance



Cleaning and maintaining the BrickWal on your building is an important part of sustaining the beauty and value of your building. The extent and nature of maintenance will depend on the geographic location and exposure of the building. As a guide, it is recommended that normal care and maintenance tasks shall include, but not limited to:

- The entire exterior wall surface should be cleaned at least once every year using a low-pressure water sprayer to remove any dirt, airborne pollutants, or foreign materials from the surface. Any materials that are not removed using a low-pressure sprayer should be removed by cleaning with soft fiber scrubbing brush to remove in conjunction with spraying with water or a solution of detergent and water.
- Inspect the entire exterior surface of the building at least every year for any damage to the exterior BrickWal panels. If there is any damage noted notify Fullerton Finish Systems for the appropriate support and technical expertise for repairs that may be needed to correct the damage.
- Inspect all sealant joints on BrickWal panels every year making sure they are not cracked, loose, or missing in some areas at the panel to panel joints and where other products intersect or different sealant around doors, windows, electrical equipment, outlets, pipes or any other penetrations in the BrickWal panel system making sure that they are secure and no moisture can penetrate into building. Any deteriorated or damaged sealant should be removed and replaced as soon as it appears. Contact Fullerton Finish Systems for appropriate sealant required.
- Heavy traffic areas should be monitored more frequently due to exposure to automobiles, lawn equipment and other elements. Heavy foliage or landscape areas with frequent watering schedules should be checked more frequently as they can develop mold or algae growth. Contact Fullerton Finish Systems for cleaning recommendations
- BrickWal products should not come in direct contact with deicing salts. The Salts may prematurely damage the finished look of the BrickWal.
- It is a good practice to keep vegetation such as bushes, shrubs and small trees Trimmed back and away from the building and BrickWal. This will also help to Ensure the sprinkler systems do not saturate areas near the building.
- Ensure required external ground clearances (typically 6") and drainage slopes are Maintained. Do not in fill landscaping up to the BrickWal.

SECTION NINE – MSDS Sheets



On the following pages, please find the Material Safety Data Sheets on our product line for your reference.



Date Revised: May 27, 2014

Section 1 – Product Identification and Use

PRODUCT NAME: BrickWal		PRODUCT IDENTIFICATION NUMBER.: Not Applicable
PRODUCT USE:		
MANUFACTURER		SUPPLIER
Fullerton Finish Systems, Inc. 8645 W. 21 st Street Sand Springs, OK 74063 Phone No: (866) 915-9995		Fullerton Finish Systems, Inc. 8645 W. 21 st Street Sand Springs, OK 74063 Phone No: (866) 915-9995

Section 2 – Hazardous Ingredients

Hazardous Ingredients	Common Name	CAS #	OSHA PEL	ACGIH TLV
None				

Section 3 – Physical/Chemical Characteristics

Boiling Point: Not Applicable	Specific Gravity (H₂O=1) 3.0
Vapor Pressure (mm Hg.) Not Applicable	Melting Point Not Applicable
Vapor Density (AIR=1) Not Applicable	Evaporation Rate Not Applicable (Butyl Acetate=1):
Solubility in Water: None on brick side slight on raw side	
Appearance: Brick	Odor: None

Section 4 – Fire and Explosion Data

Flash Point (Method Used): Not Applicable	Flammable Limits: Not Applicable	LEL: Not Applicable	UEL: Not Applicable
Extinguishing Media: Same as surrounding fire or class A			
Special Fire Fighting Procedures: Not Applicable			
Unusual Fire and Explosion Hazards: Not Applicable			

Section 5 – Reactivity Data

Stability: Unstable Stable X	Hazardous Polymerization: May Occur Will Not Occur X
Incompatibility (Materials to Avoid): Not Applicable	
Hazardous Decomposition or Byproducts: Not Applicable	
Conditions to Avoid: Not Applicable	

Section 6 – Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? No
Health Hazards (Acute and Chronic): Dust from product while cutting may cause minor dermatitis and/or respiratory irritations. Excessive inhalation of dust can produce pneumoconiosis, commonly called silicosis.			
Carcinogenicity:	NTP? N/A	LARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure: Rash			
Medical Conditions Generally Aggravated by Exposure: Exposure to dust while cutting may cause aggravation to sinus allergies and bronchitis.			
Emergency and First Aid Procedures: Should dust cause a rash or get in eyes wash and flush with water.			

Section 7 – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Not Applicable
Waste Disposal Method: Dispose according to state and federal regulations or in ordinary approved land fill.
Precautions to be Taken in Handling and Storing: Not Applicable
Other Precautions: When cutting material wear gloves, particle mask and goggles

Section 8 – Control Measures

Respiratory Protection (Specify Type): OSHA approved particle mask.				
Ventilation:	Local Exhaust? Yes	Mechanical General (General)?	Special N/A	Other N/A
Protective Gloves: Yes		Eye Protection: OSHA approved goggles		
Other Protective Clothing or Equipment: None				
Work/Hygienic Practices Use standard hygienic practices.				

This information is given without a warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation and verification, before using any product, read its label.

SECTION TEN – Contacts



Looking for Consistant Results?

Give FFS a call to see how we can help you deliver results with our exterior finish panels and or materials.

Phone: 866-915-9995 (toll free)

918-246-9995 (local)

918-246-9976 (fax)

Contacts:



Ray Buchanan

Plant Manager

918-246-9995

ray.buchanan@fullertonfinishsystems.com



Gina Ogburn

Account Manager / Sales Coordinator

918-246-9995

gina.ogburn@fullertonfinishsystems.com

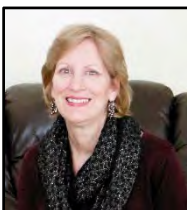


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