FOAM CONTROL ®

Foam-Control®

NAILSTRIP

WALL APPLICATIONS
CONSTRUCTION MANUAL

Nailstrip

WALL APPLICATIONS CONSTRUCTION MANUAL

When you choose Foam-Control® Nailbase, you're collaborating with a team of experts who work with you every step of the way. We're here to answer your questions, solve your problems, and do everything we can to make sure your project proceeds smoothly—and ends successfully.

Foam-Control products are manufactured by a network throughout North America and the world. Foam-Control Nailbase manufacturers adhere to strict, consistent standards to ensure high-quality.

This network allows us to offer architects, designers and builders the best of both worlds: the resources of the country's largest provider of Nailbase products and systems, and the superior attention and customer service of a local supplier.

Table of Contents
Foam-Control Nailbase

General Recommendations

Foam-Control Nailstrip Sizes

Foam-Control Nailstrip is made in a variety of sizes, most commonly 4' x 8'. Consult the local Foam-Control Nailstrip Manufacturer for sizes, thicknesses, and fabrication services available in your area.

Environmentally Safe

The core material for Foam-Control Nailstrip, Foam-Control insulation, contains no CFCs, HCFCs, HFCs or formaldehyde and is recyclable. Foam-Control insulation is inert, non-nutritive and highly stable. Your Foam-Control Nailstrip Manufacturer encourages you to support recycling and energy conservation.

Warranty

Foam-Control Nailstrip Manufacturers provide a 50-year warranty covering thermal performance. Contact the local Foam-Control Nailstrip manufacturer for details regarding the warranty program.

Handling - Storage - Protection

Foam-Control Nailstrip should be stored in a fully supported manner and protected from weather. Cover stored Foam-Control Nailstrip with tarps or similar protective wraps. Exposure 1 OSB facings are used in Foam-Control Nailstrip manufacture; however, exterior wall installations must be covered by a code recognized weather resistive barrier applied at the time of installation. Apply wall cladding when immediately practical.

Molded polystyrene contains a flame retardant additive. However, the molded polystyrene should be considered combustible and used with code approved thermal barriers and should not be stored near any open flame or source of ignition. Do not install or use molded polystyrene with coal-tar pitch or highly solvent extended mastics, adhesives or sealants. Consult the local Foam-Control Nailstrip Manufacturer for suggested adhesives, sealants, and assembly specifications not otherwise detailed in this manual.

Vapor Retarders

Foam-Control Nailstrip may require the use of a vapor retarder. Consult with a local design professional for a recommendation.
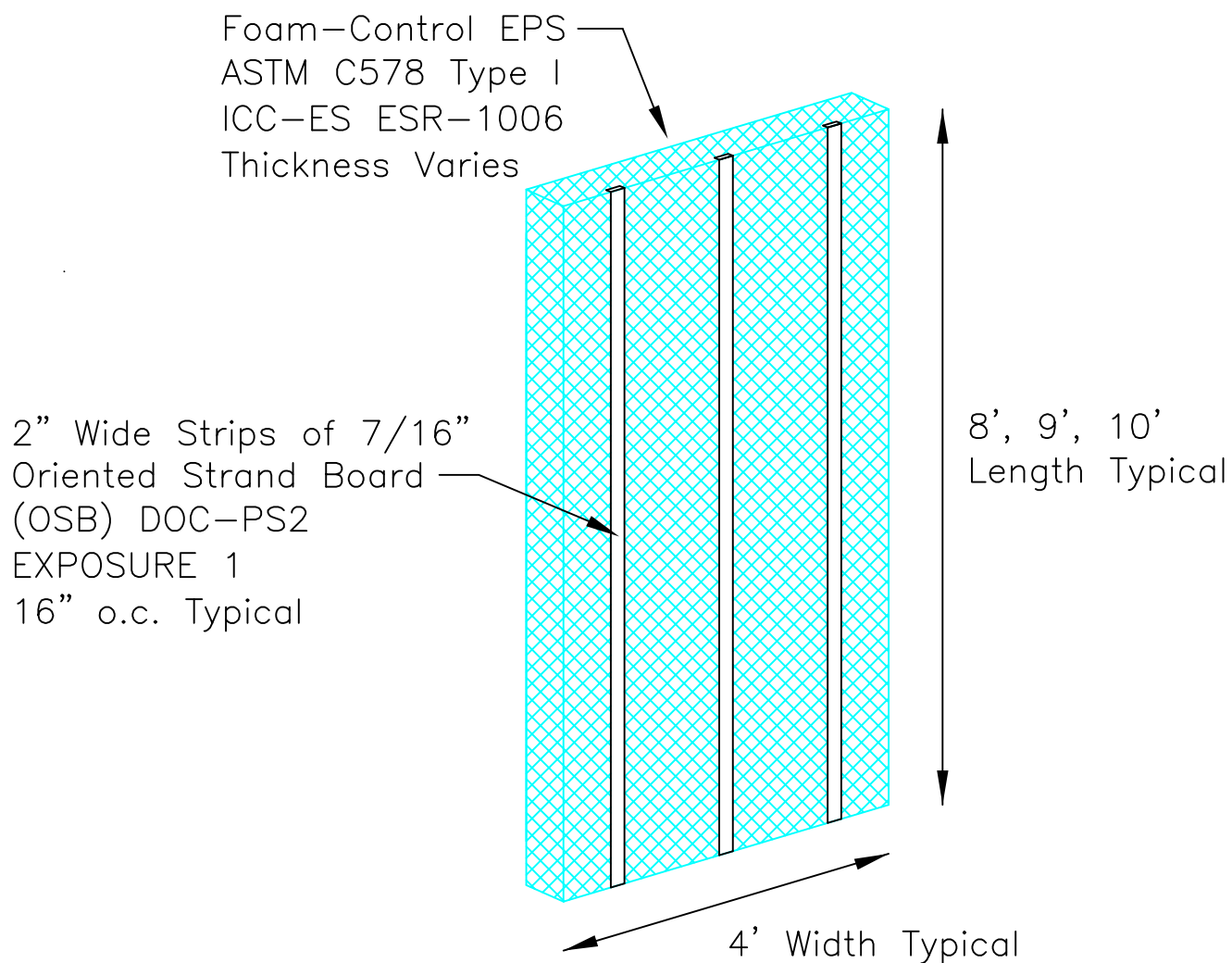
Special Treatments

Foam-Control Nailstrip can be produced with Foam-Control insulation with Perform Guard that protects the core insulation from potential termite damage. Please contact your local Foam-Control Nailstrip manufacturer.

⊙Perform Guard®

Disclaimer

Details, illustrations, pictures and guidelines provided herein give basic information and illustrate examples of Foam-Control Nailstrip installation. The basic information provide herein is not intended to cover every potential use and application of Foam-Control Nailstrip. It is the responsibility of the installer to become familiar with his specific application and determine if Foam-Control Nailstrip is suitable. By commencing work, the installer accepts full responsibility for the proper and safe installation of Foam-Control Nailstrip at his job site. Adding an insulation component may change the behavior of a wall assembly with regard to air movement, water vapor transmittance, bulk water management and heating, cooling and ventilation systems. It is the responsibility of the owner or the owner's representative to design the insulated wall assembly to perform in a manner ensuring function and durability. Furthermore, it is the sole responsibility of the installer to meet all federal and local regulatory requirements for job site safety for himself, his workers and any others on the job site while in the execution of all phases of Foam-Control Nailstrip installation.

Foam—Control EPS
ASTM C578 Type I
ICC—ES ESR—1006
Thickness Varies

2" Wide Strips of 7/16"
Oriented Strand Board
(OSB) DOC—PS2
EXPOSURE 1
16" o.c. Typical

8', 9', 10'
Length Typical

4' Width Typical

ISOMETRIC
SCALE: NTS

Foam—Control® Nailstrip

TITLE:
Foam—Control Nailstrip

NO.
FC—300

General Notes

1. Provide adequate support for Foam-Control Nailstrip during storage.

2. Store Foam-Control Nailstrip flat and protected from weather.

3. Exterior applications:
    Foam-Control Nailstrip must be covered with code recognized weather resistive barrier at time of installation. Apply wall covering to Foam-Control Nailstrip following wall covering manufacturer recommendations. Fasten trim to Foam-Control Nailstrip or wood blocking as required.

4. Interior applications:
    Foam-Control Nailstrip must be covered with code approved thermal barrier. Fasten thermal barrier to Foam-Control Nailstrip or wood blocking as required.

5. Attachment of Foam-Control Nailstrip shall be with screws into structural members/substrate.

6. Each project shall be engineered as required.

7. Details provided are illustrative examples of Foam-Control Nailstrip installation and not intended to cover every potential use and application.
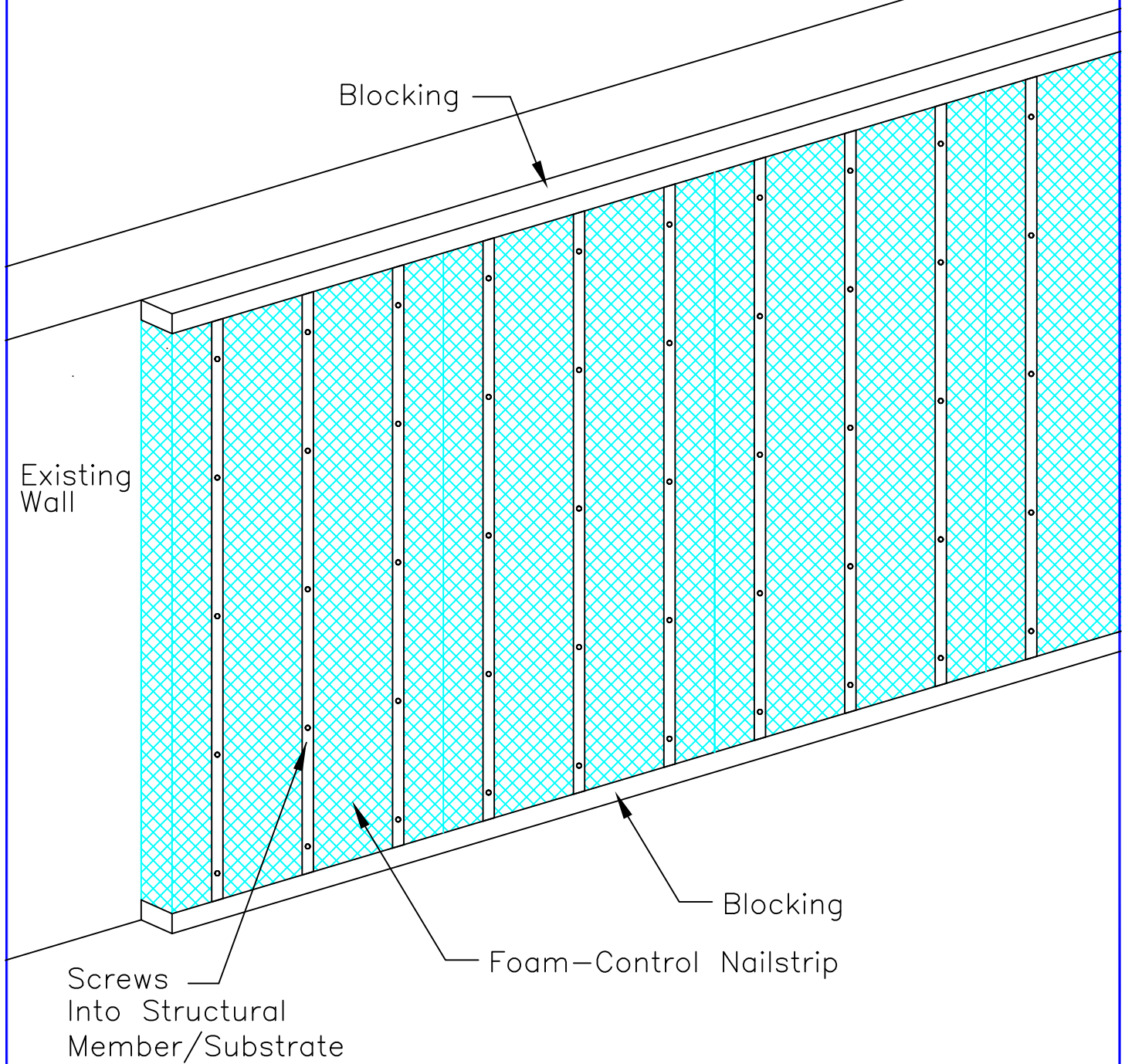
Updated 1-21-11

Foam-Control® Nailstrip

TITLE:	NO.
GENERAL NOTES	FC-300a

Note: Screw Pattern Illustrated
Is Representative. Each Project
Shall Be Engineered As Required.

Blocking

Existing
Wall

Blocking

Foam—Control Nailstrip

Screws
Into Structural
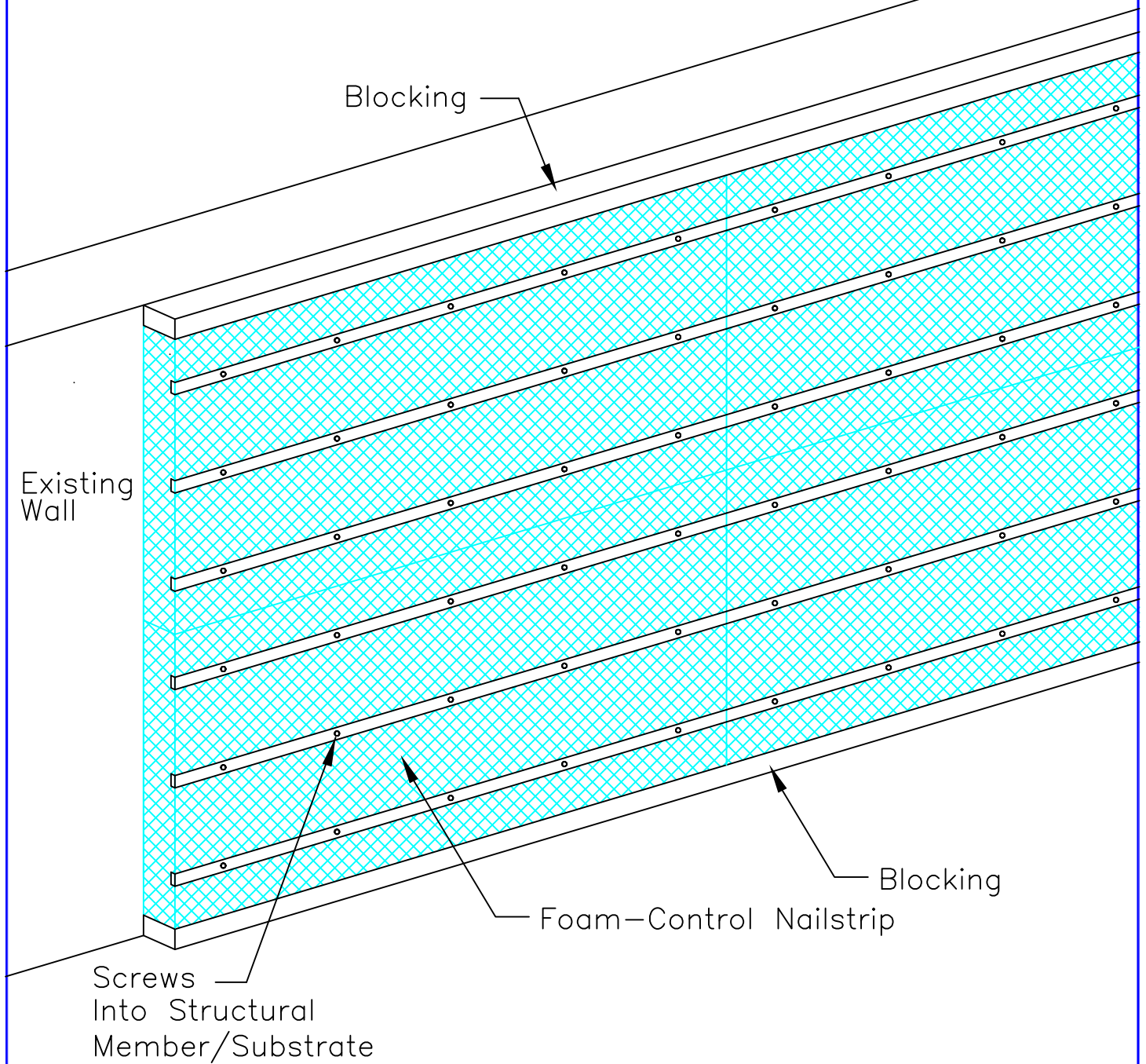Member/Substrate

ISOMETRIC
SCALE: NTS

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:
VERTICAL INSTALLATION

NO.
FC—301
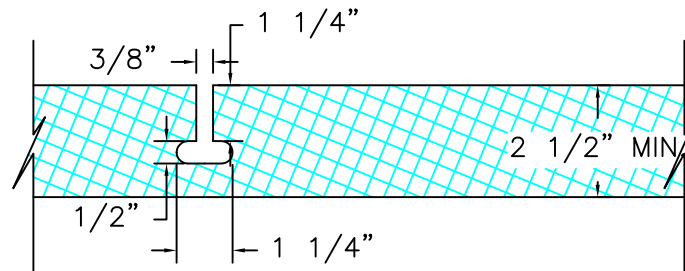
Note: Screw Pattern Illustrated
Is Representative. Each Project
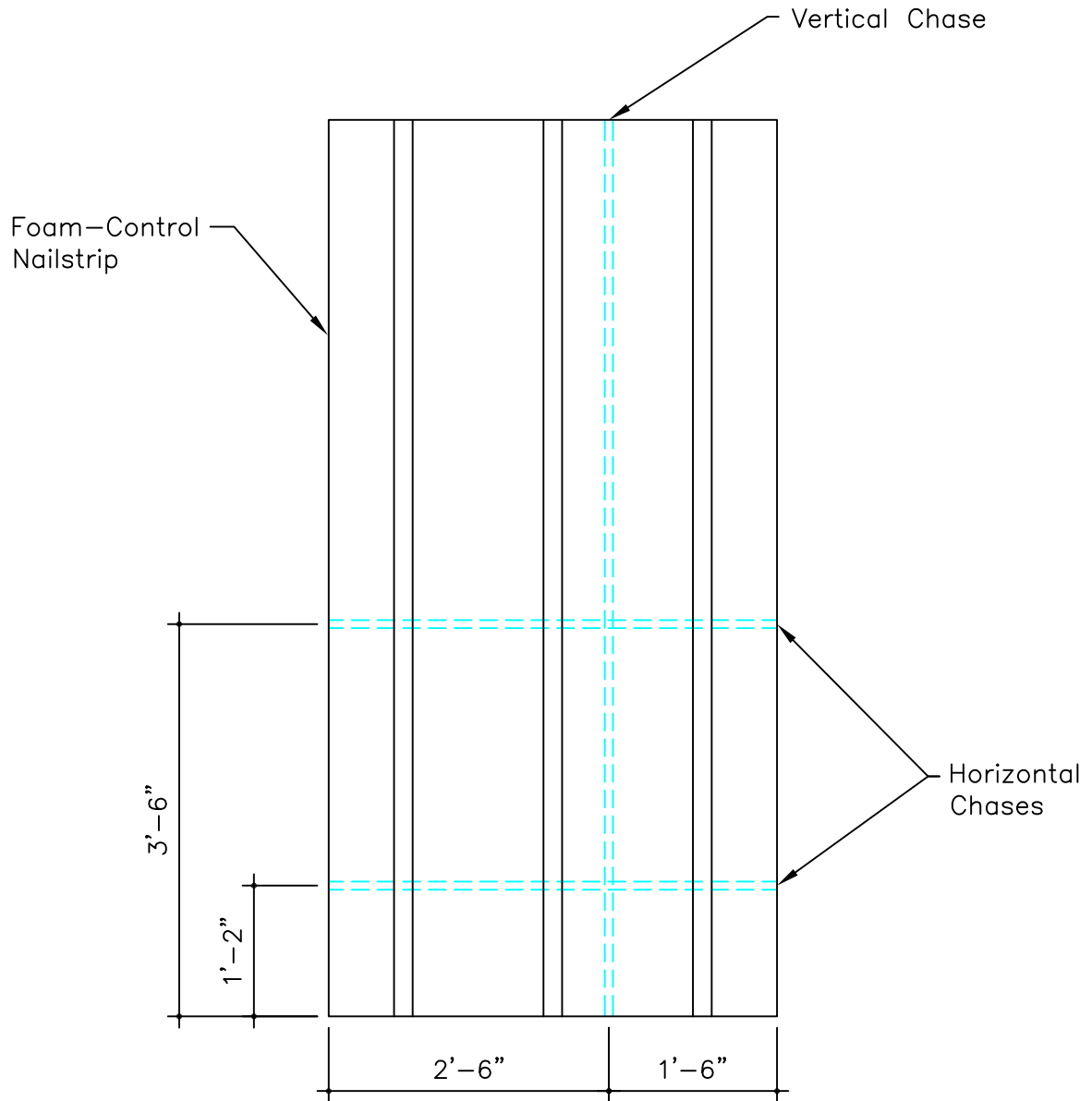Shall Be Engineered As Required.

Blocking

Existing
Wall

Screws
Into Structural
Member/Substrate

Foam—Control Nailstrip

Blocking

ISOMETRIC
SCALE: NTS

Foam—Control® Nailstrip

TITLE:	NO.
HORIZONTAL INSTALLATION	FC—301a

Vertical Chase

Foam—Control
Nailstrip

Horizontal
Chases

3'—6"

1'—2"

2'—6"   1'—6"

ELEVATION
SCALE: NTS

1 1/4"
3/8"
2 1/2" MIN
1/2"
1 1/4"

SECTION
SCALE: NTS

Updated 1—21—11

Foam—Control ® Nailstrip

Interior: Cover Foam—Control Nailstrip with Gypsum Board

Exterior: Cover Foam—Control Nailstrip with Weather Resistive
Barrier and Wall Cladding
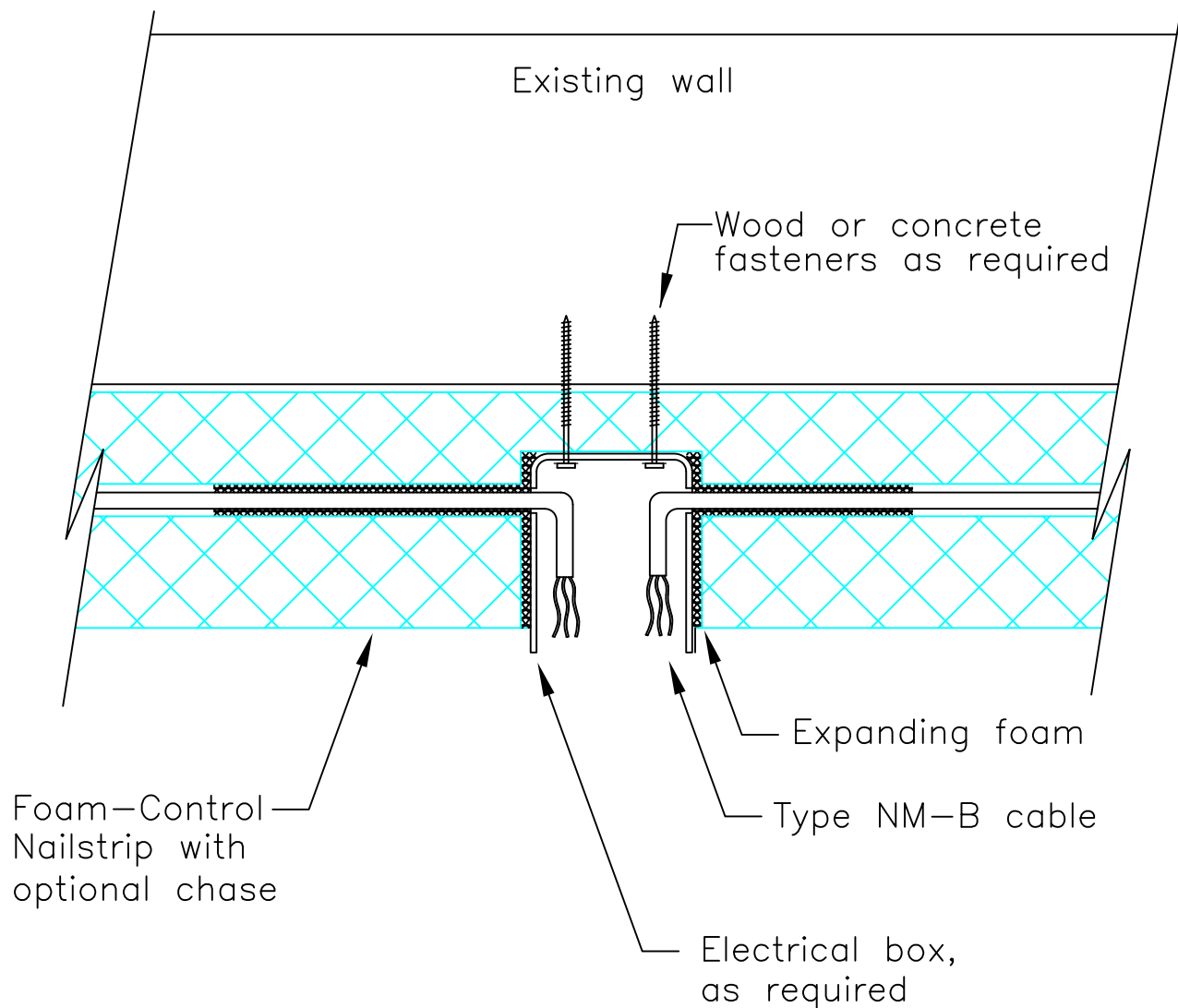
Existing wall

Wood or concrete
fasteners as required

Foam—Control
Nailstrip with
optional chase

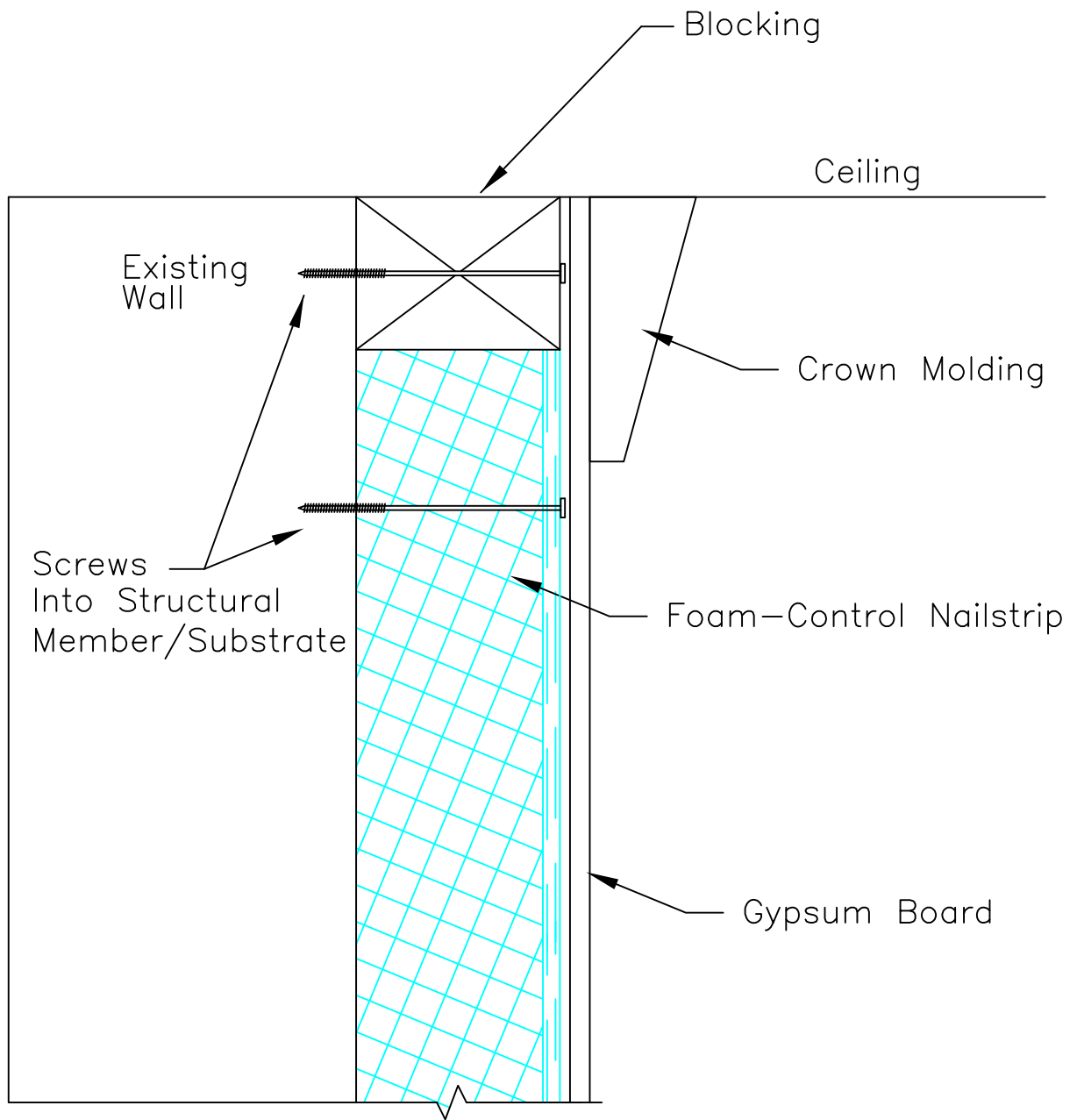Expanding foam

Type NM—B cable

Electrical box,
as required

SECTION
SCALE: NTS

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:	NO.
ELECTRICAL BOX	FC—303

Blocking

Ceiling

Existing
Wall

Crown Molding

Screws
Into Structural
Member/Substrate

Foam-Control Nailstrip

Gypsum Board

Updated 1-21-11

Foam-Control® Nailstrip

TITLE:	NO.
INTERIOR TOP OF WALL	FC-402

Blocking

Ceiling

Existing
Wall

Screws
Into Structural
Member/Substrate

Foam—Control Nailstrip

Gypsum Board

<u>SECTION</u>
SCALE: NTS

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:	NO.
INTERIOR TOP OF WALL	FC—402a

Existing
Wall

Foam—Control Nailstrip

Gypsum Board

Screws
Into Structural
Member/Substrate

Baseboard Trim

Floor Covering

Existing Floor

Blocking
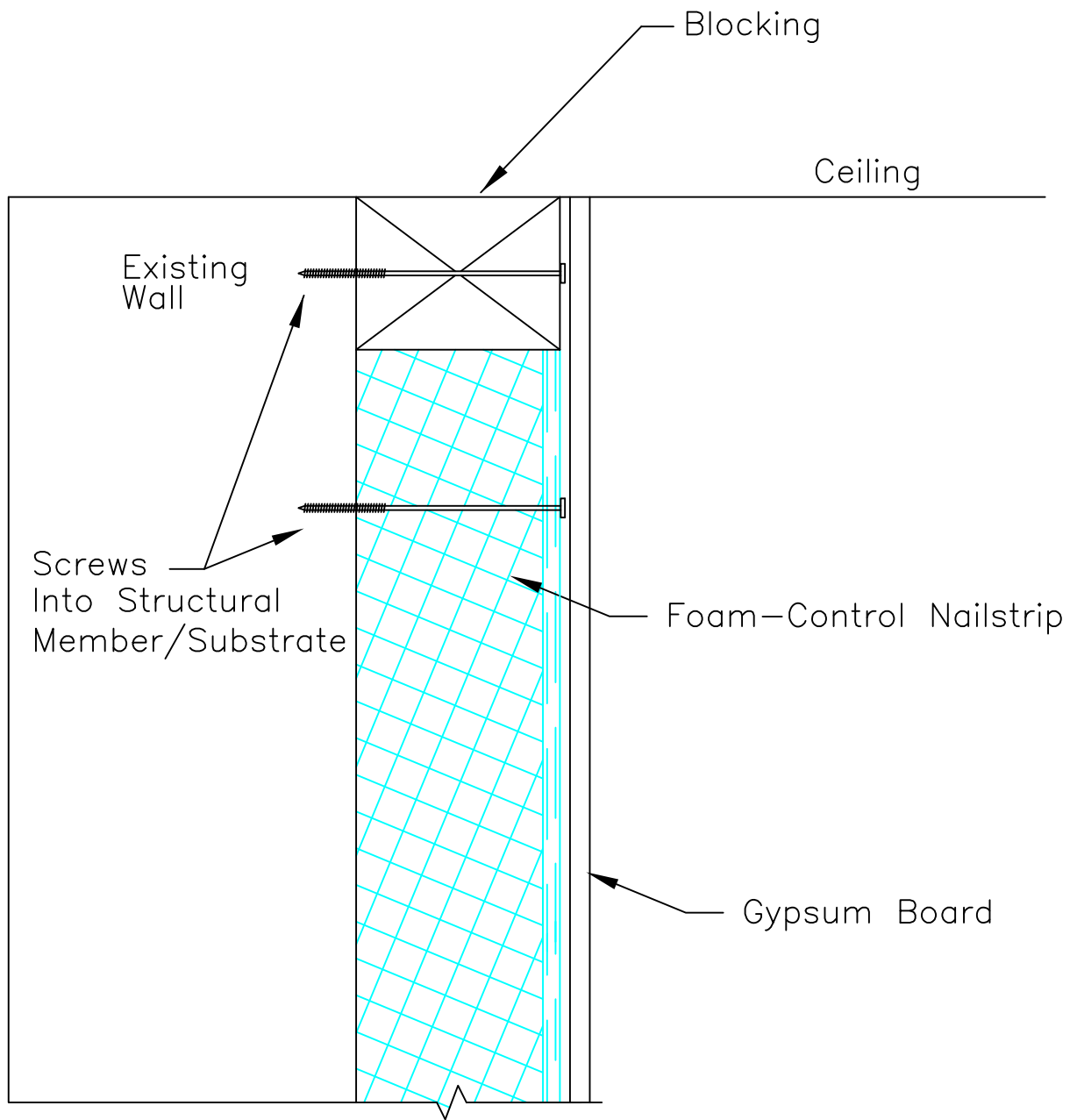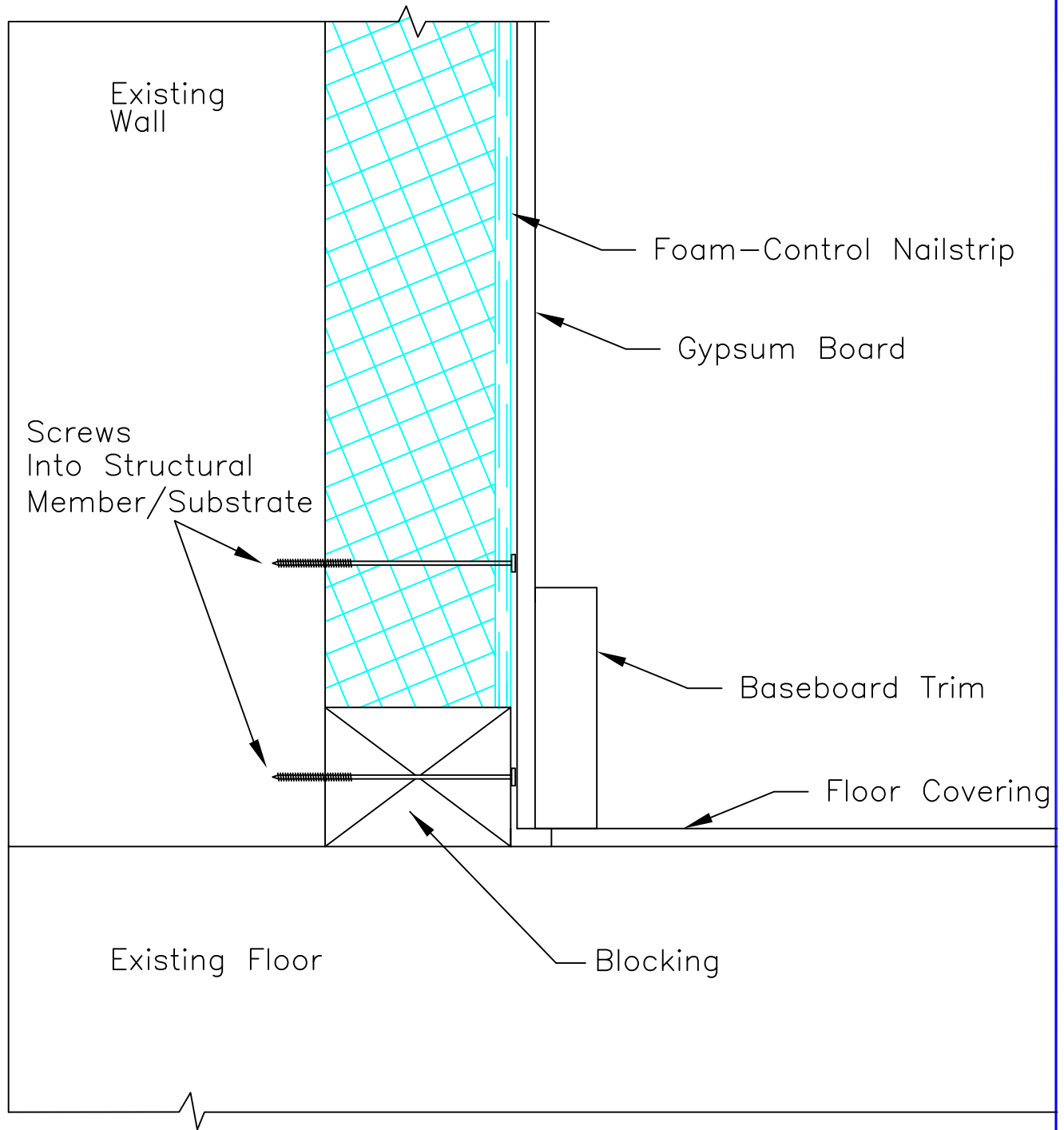
SECTION
SCALE: NTS

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:
INTERIOR BOTTOM OF WALL

NO.
FC—403

Existing Wall

Foam—Control Nailstrip

Gypsum Board

Trim

Blocking

Trim

Screws Into Structural Member/Substrate
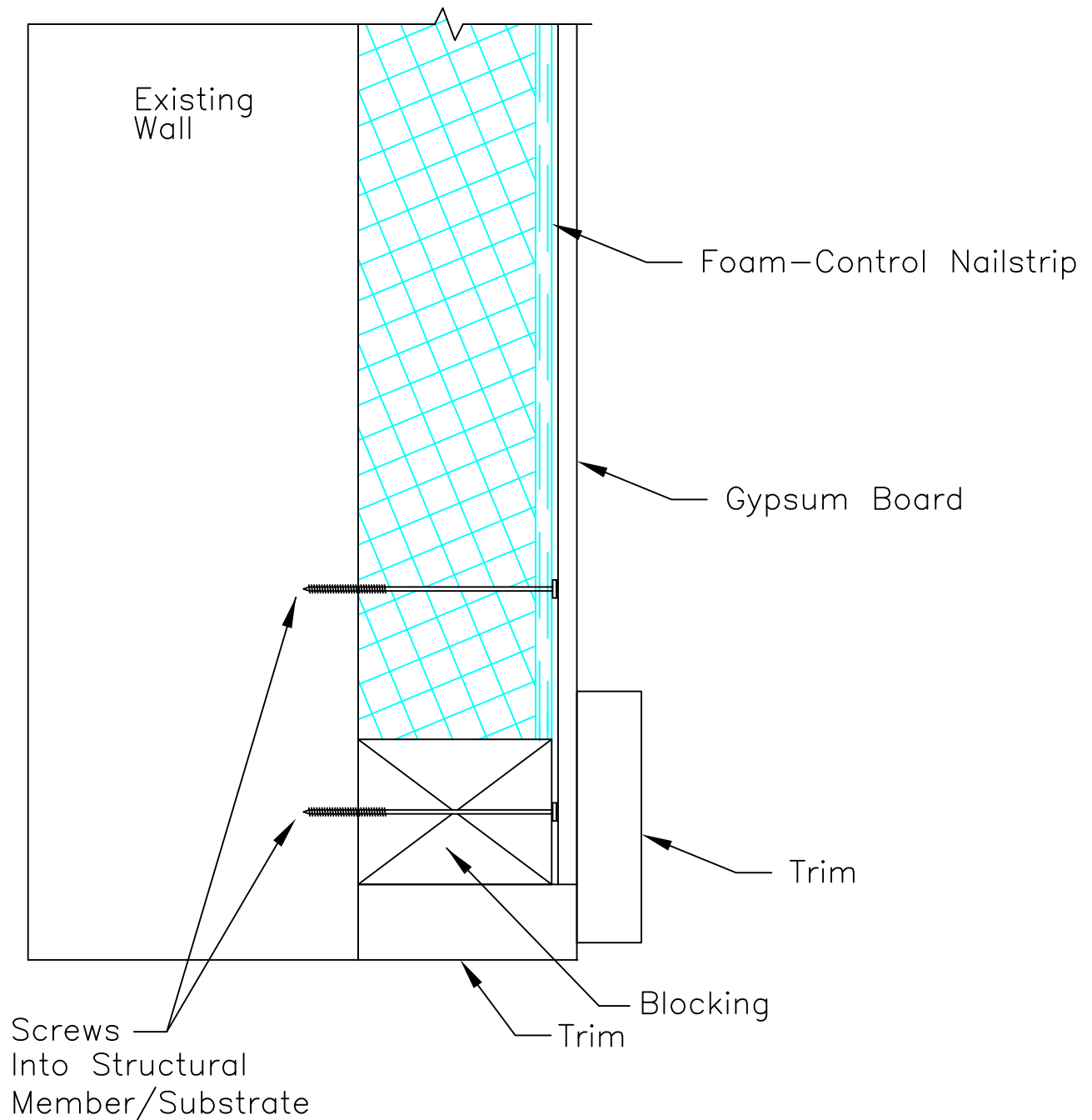
Updated 1—21—11

Foam—Control® Nailstrip

TITLE:
INTERIOR OPENING HEADER

NO.
FC—404

Sill

Existing
Wall

Trim

Blocking

Screws
Into Structural
Member/Substrate

Foam—Control Nailstrip

Gypsum Board
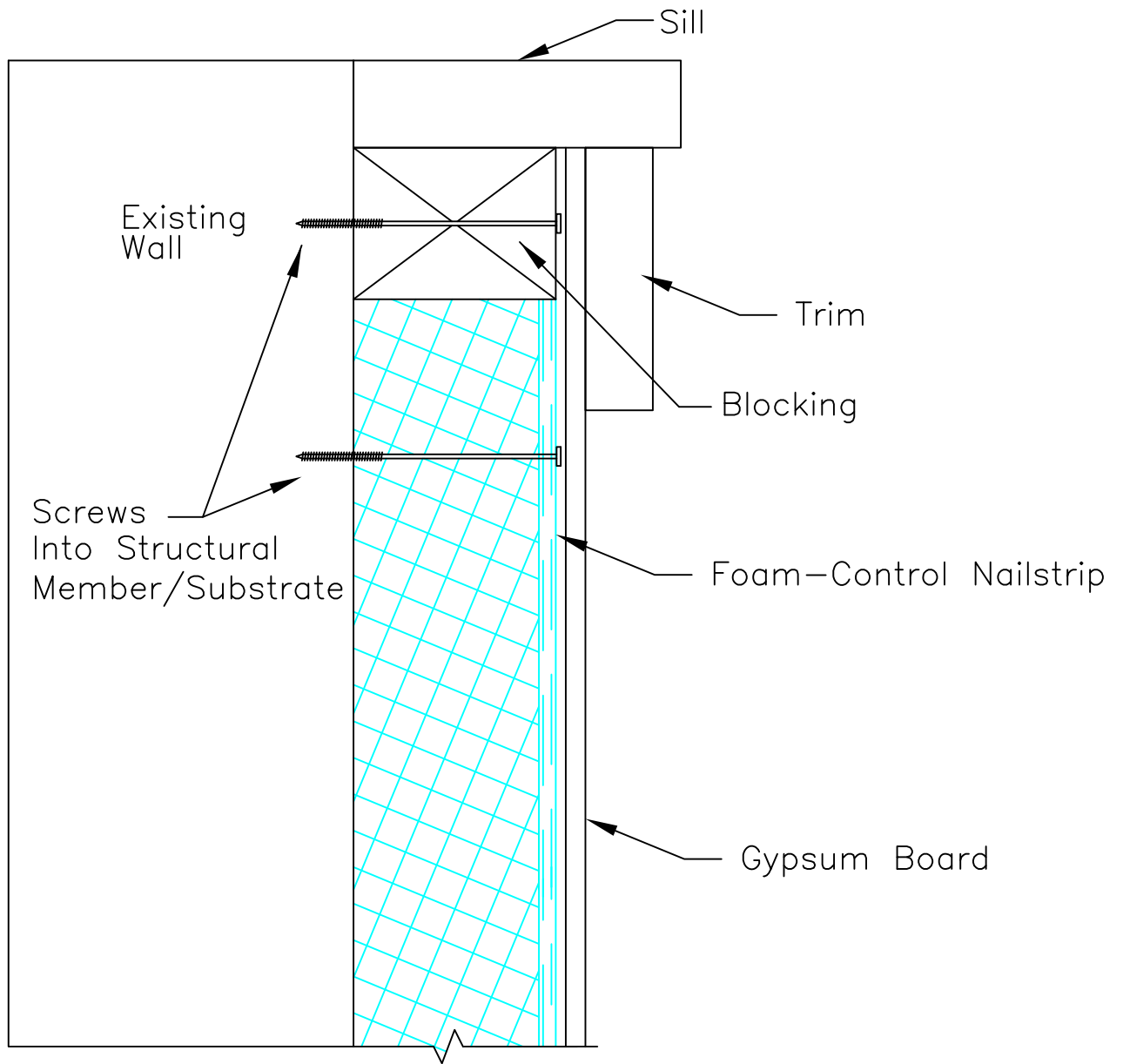
<u>SECTION</u>
SCALE: NTS

Foam—Control® Nailstrip

TITLE:
INTERIOR OPENING SILL

NO.
FC—405
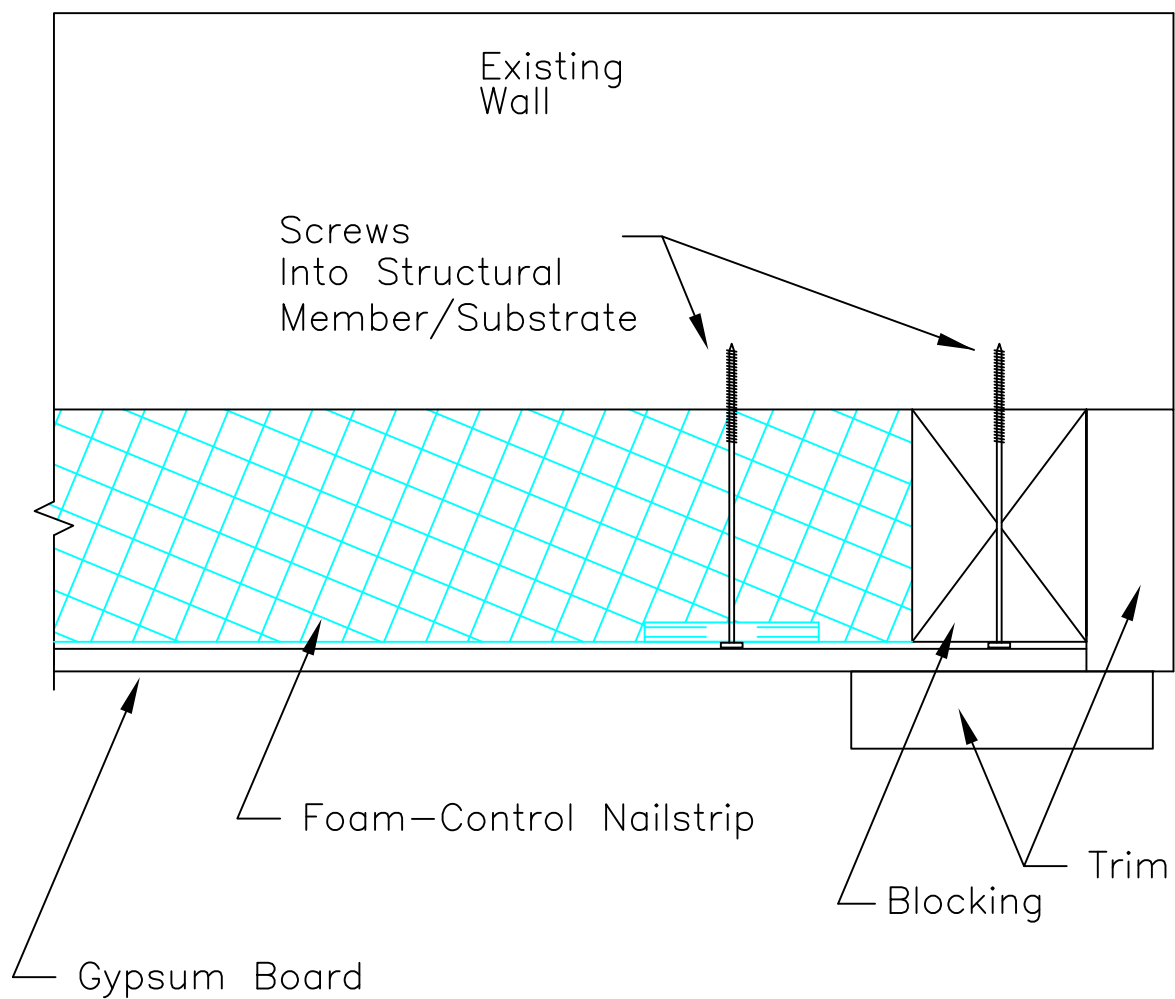
Existing
Wall

Screws
Into Structural
Member/Substrate

Foam—Control Nailstrip

Blocking

Trim

Gypsum Board

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:
INTERIOR OPENING JAMB

NO.
FC—406

Existing
Wall

Foam—Control
Nailstrip

Screws
Into Structural
Member/Substrate

Gypsum Board

EPS Compatible
Adhesive

EPS Compatible
Adhesive

EPS Compatible
Adhesive

SECTION
SCALE: NTS

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:	NO.
INTERIOR OUTSIDE CORNER	FC—407

Existing
Wall

Foam—Control Nailstrip

Screws
Into Structural
Member/Substrate

Gypsum Board
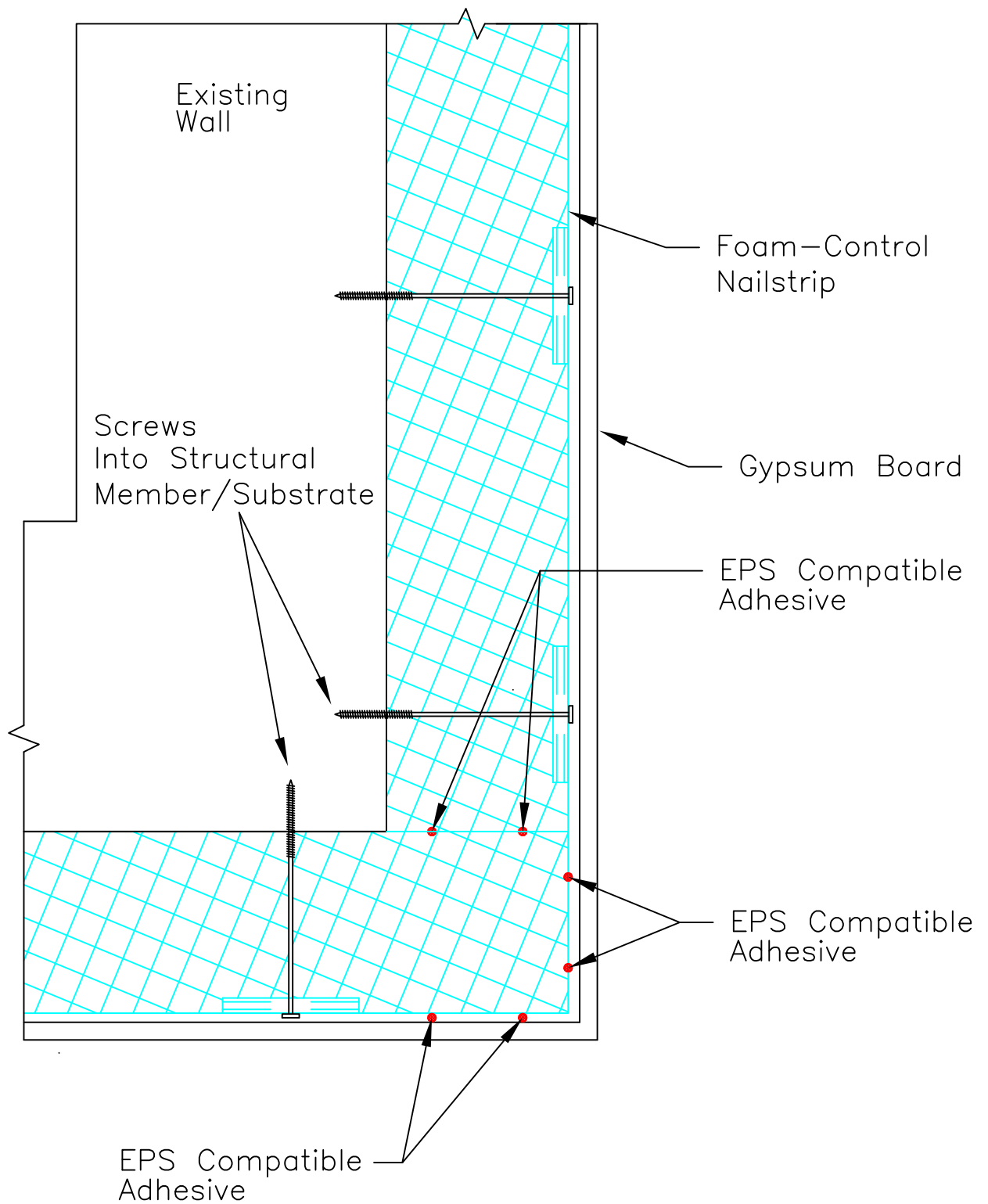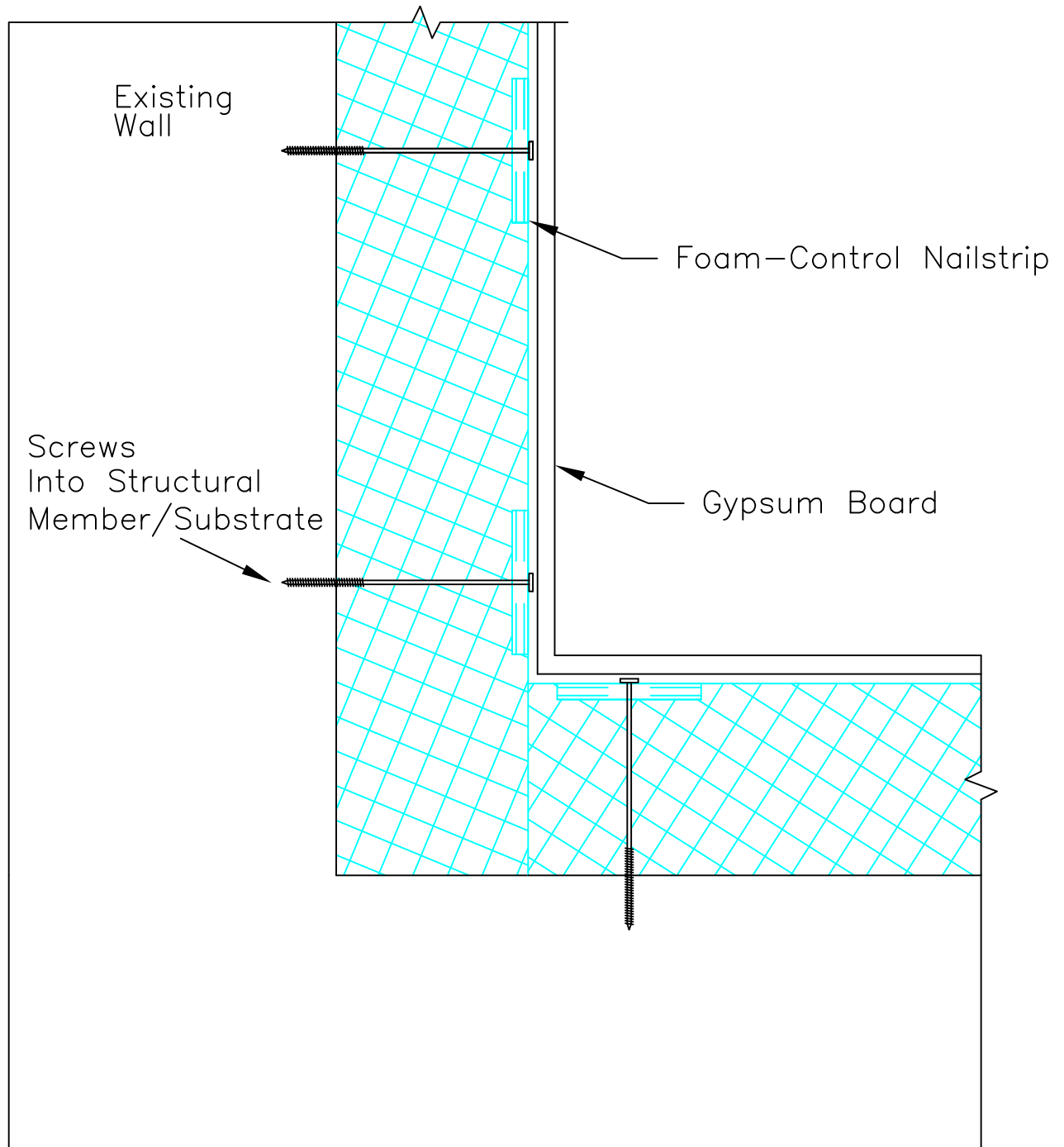
<u>SECTION</u>
SCALE: NTS

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:
INTERIOR INSIDE CORNER

NO.
FC—408

Blocking

Soffit

Sealant

Existing
Wall

Trim

Screws
Into Structural
Member/Substrate

Sealant

Foam—Control Nailstrip

Weather Resistive
Barrier

Wall Covering

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:	NO.
EXTERIOR TOP OF WALL	FC—502

Blocking

Soffit

Sealant

Existing
Wall

Screws
Into Structural
Member/Substrate

Foam-Control Nailstrip

Weather Resistive
Barrier

Wall Covering
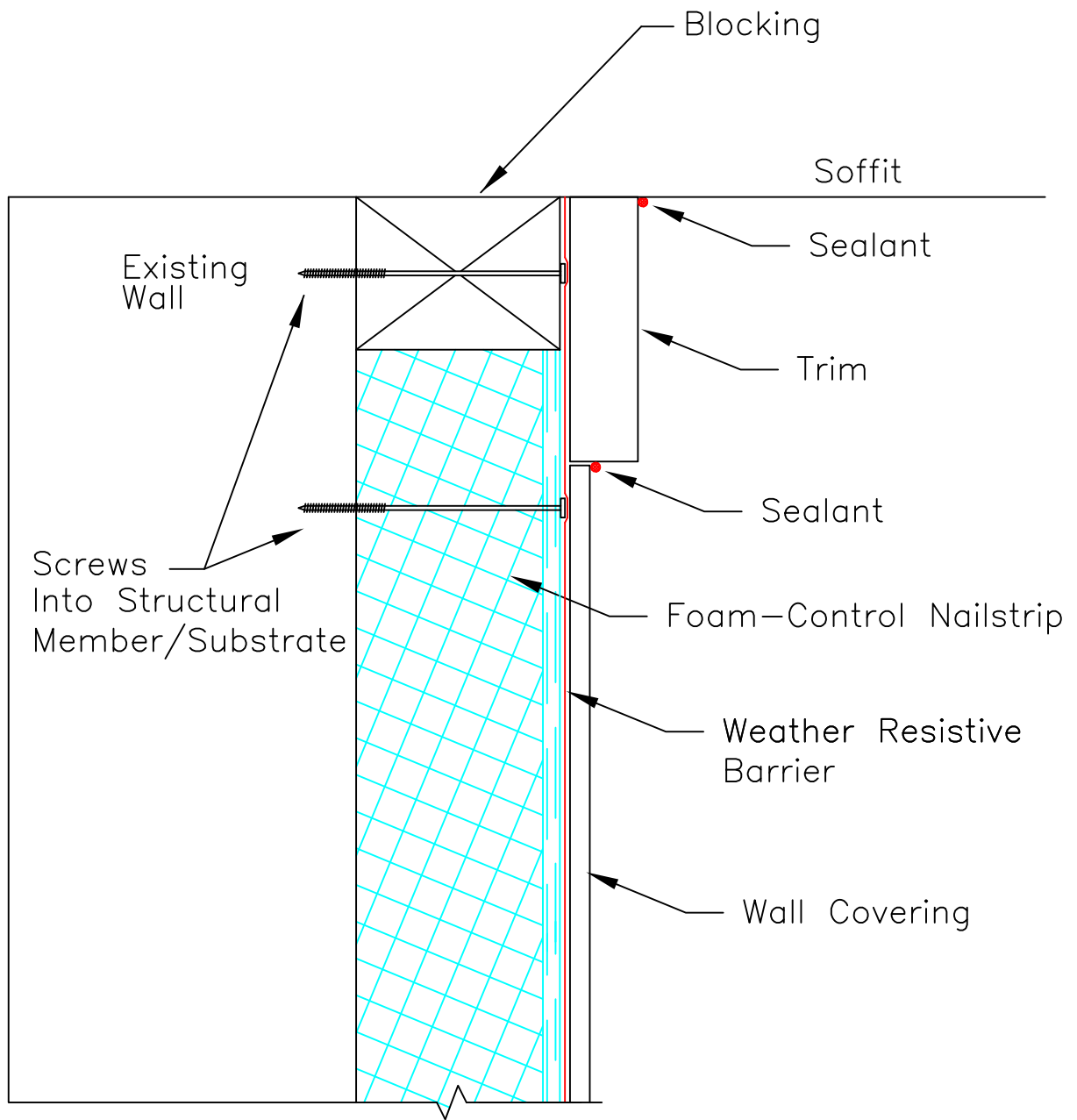
<u>SECTION</u>
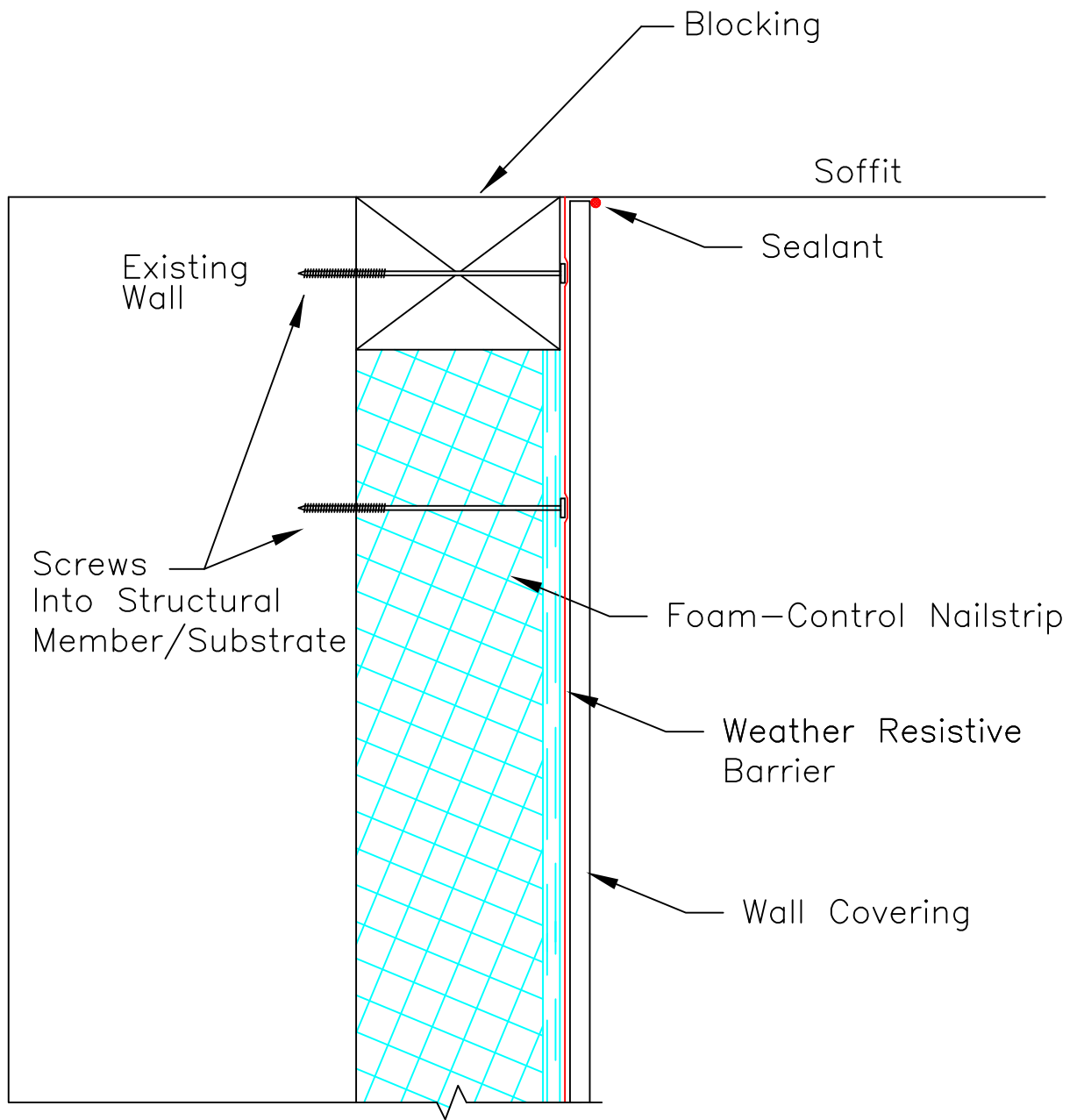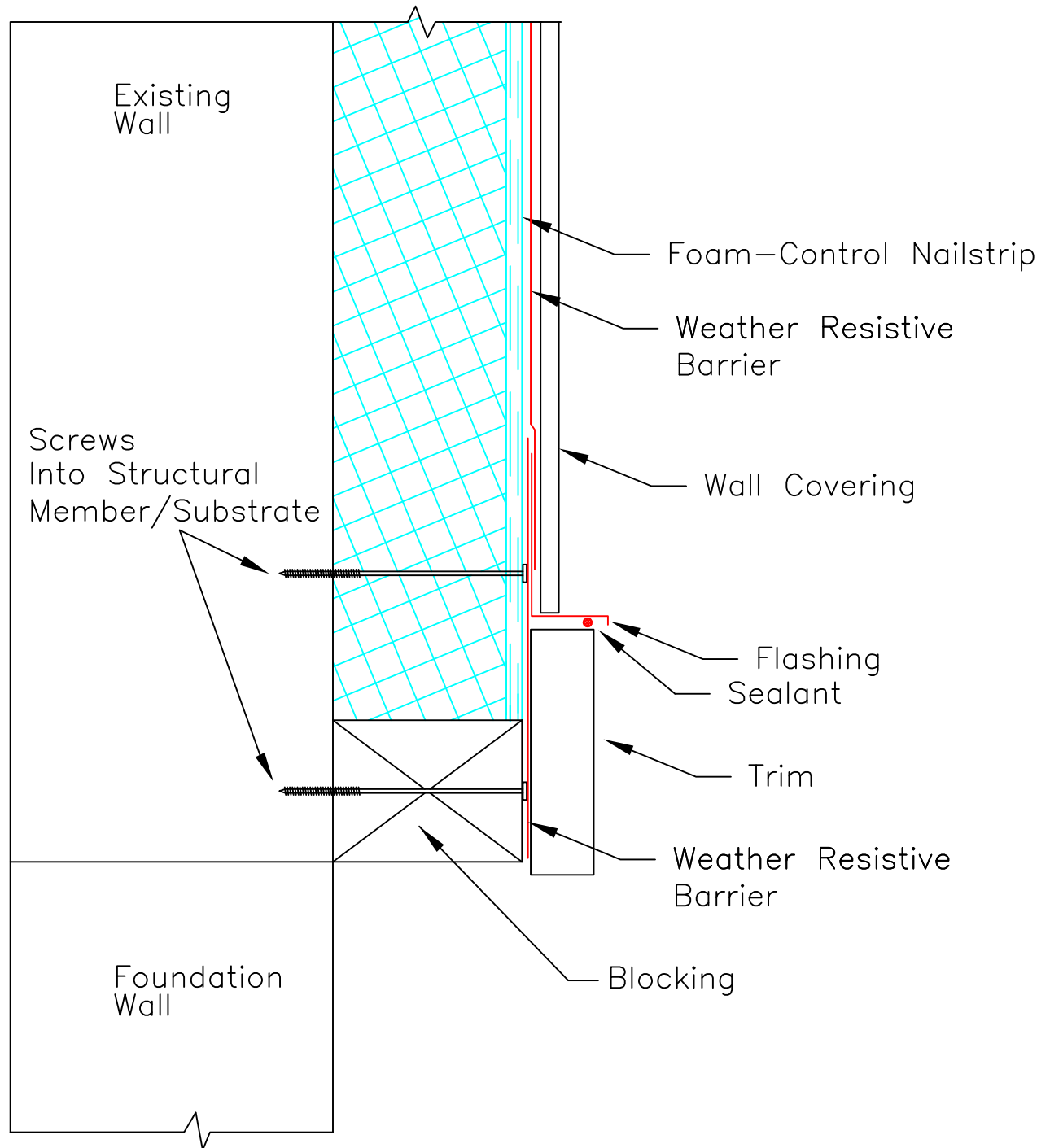SCALE: NTS

Updated 1-21-11

Foam-Control® Nailstrip

TITLE:
EXTERIOR TOP OF WALL

NO.
FC-502a

Existing
Wall

Foam—Control Nailstrip

Weather Resistive
Barrier

Screws
Into Structural
Member/Substrate

Wall Covering

Flashing
Sealant

Trim

Weather Resistive
Barrier

Foundation
Wall

Blocking

Updated 1—21—11

Foam—Control® Nailstrip

| TITLE: | NO. |
| EXTERIOR BOTTOM OF WALL | FC—503 |

Existing
Wall

Screws
Into Structural
Member/Substrate

Foundation
Wall

Foam—Control Nailstrip

Weather Resistive
Barrier

Wall Covering

Blocking

<u>SECTION</u>

SCALE: NTS

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:
EXTERIOR BOTTOM OF WALL

NO.
FC—503a

Existing
Wall

Foam—Control Nailstrip

Weather Resistive
Barrier

Wall Covering

Sealant

Trim

Flashing

Sealant

Blocking

Screws
Into Structural
Member/Substrate

Trim

Sealant
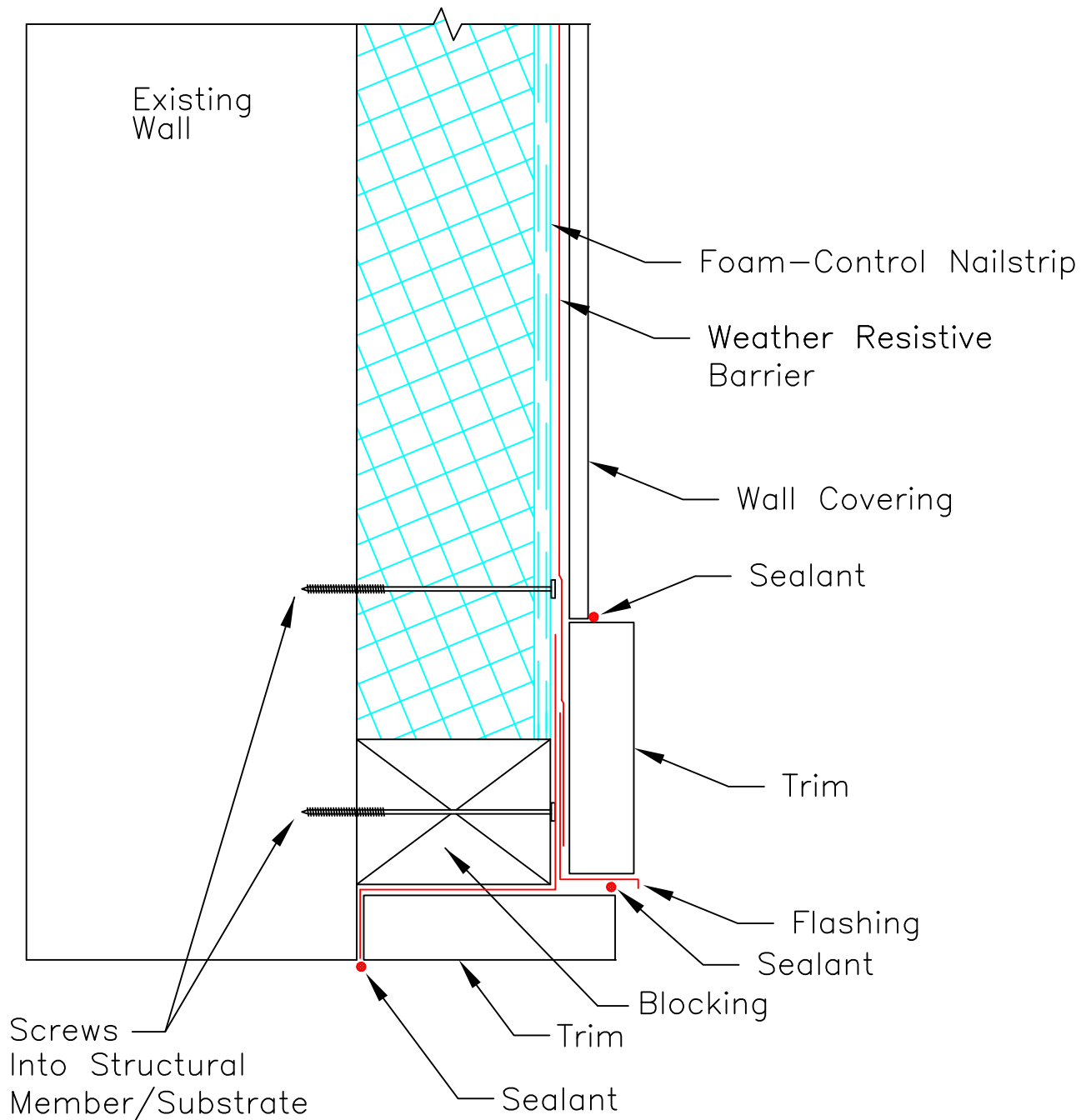
SECTION
SCALE: NTS

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:
EXTERIOR OPENING HEADER

NO.
FC—504

Sealant

Sill

Existing
Wall

Flashing

Sealant

Trim

Blocking

Sealant

Screws
Into Structural
Member/Substrate

Foam—Control Nailstrip

Weather Resistive
Barrier

Wall Covering

SECTION
SCALE: NTS

Foam—Control® Nailstrip

TITLE:	NO.
EXTERIOR OPENING SILL	FC—505

Existing
Wall

Screws
Into Structural
Member/Substrate

Sealant

Sealant
Foam—Control Nailstrip

Weather Resistive
Barrier

Wall Covering

Blocking

Trim

SECTION
SCALE: NTS

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:
EXTERIOR OPENING JAMB

NO.
FC—506

Existing
Wall

Foam−Control
Nailstrip

Weather Resistive
Barrier

Screws
Into Structural
Member/Substrate

Wall Covering

Blocking

Sealant

Trim

Sealant

Trim
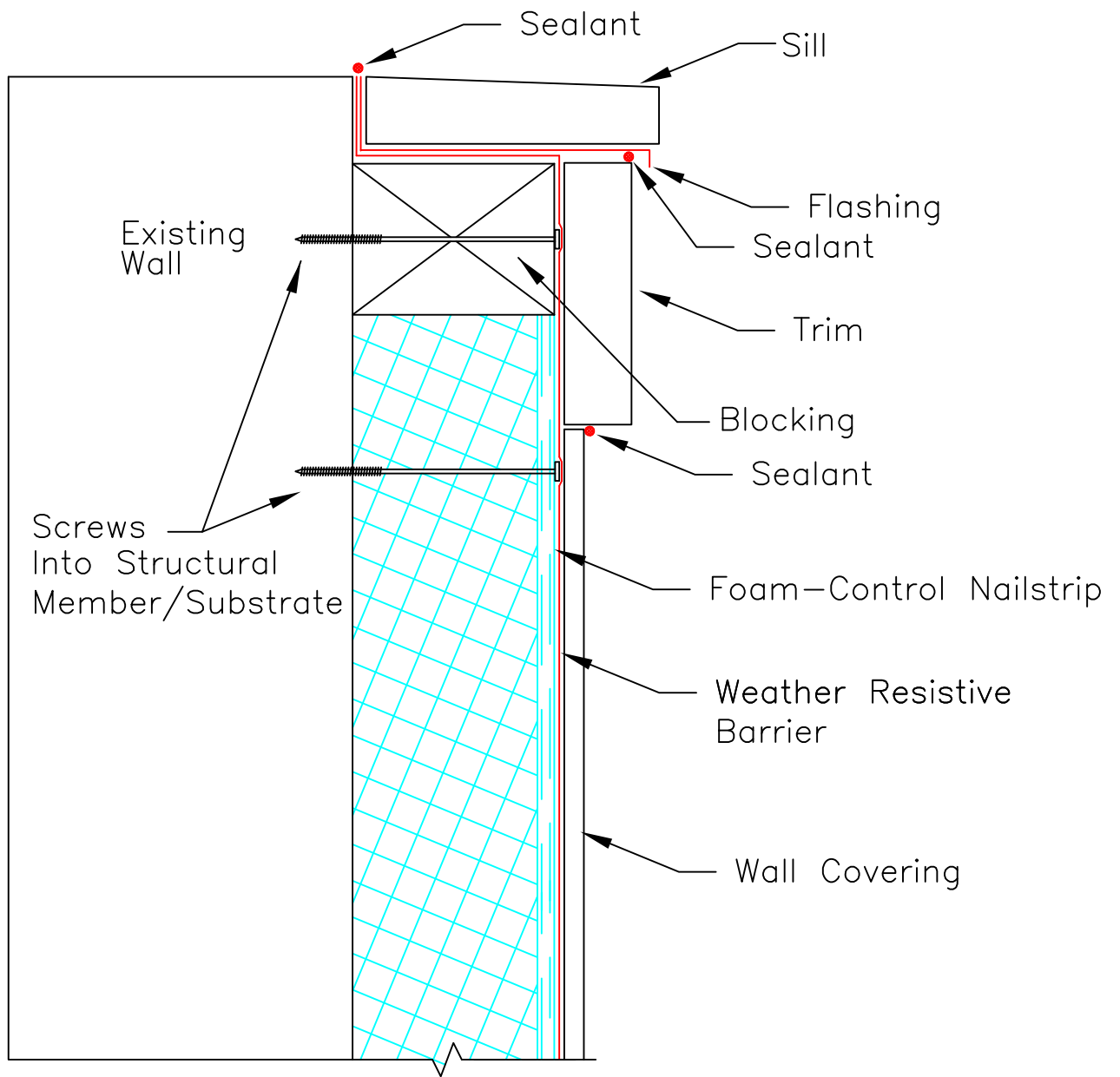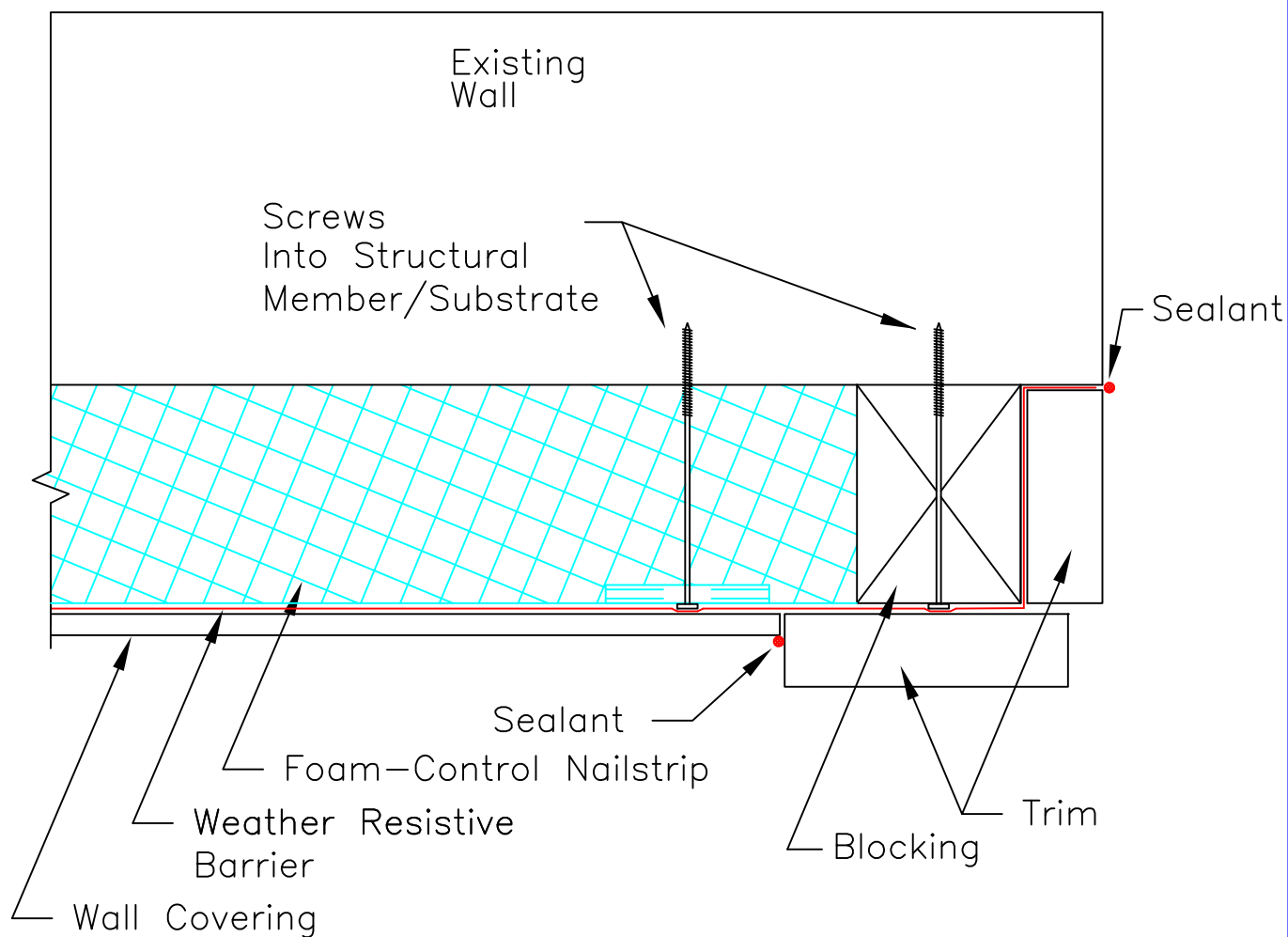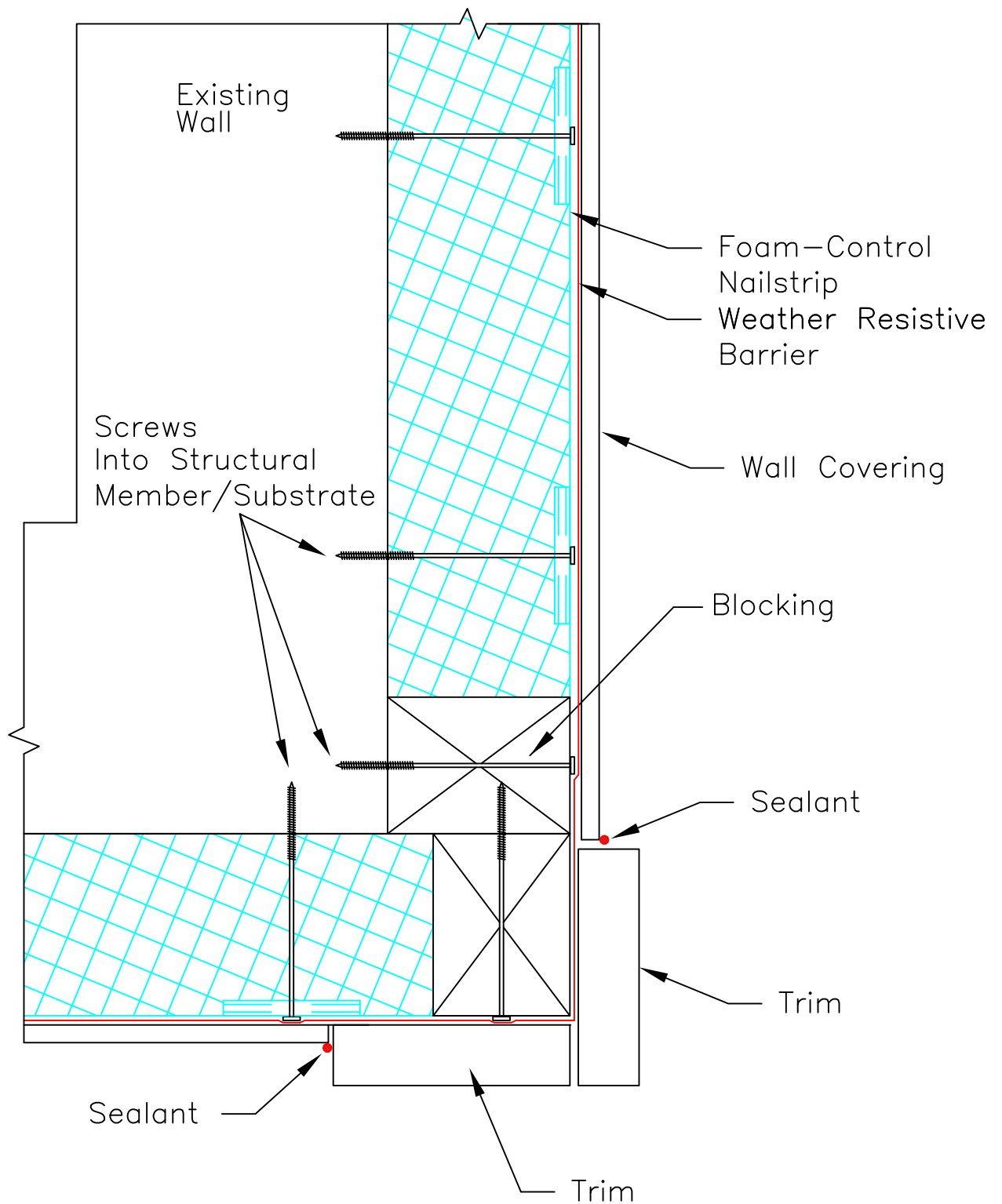
Updated 1−21−11

Foam−Control® Nailstrip

TITLE:
EXTERIOR OUTSIDE CORNER

NO.
FC−507

Existing
Wall

Foam—Control
Nailstrip

Weather Resistive
Barrier

Screws
Into Structural
Member/Substrate

Wall Covering

Blocking

SECTION
SCALE: NTS

Foam—Control® Nailstrip

TITLE:	NO.
EXTERIOR OUTSIDE CORNER	FC—507a

Existing
Wall

Foam—Control Nailstrip

Weather Resistive
Barrier

Screws
Into Structural
Member/Substrate

Wall Covering

Sealant

Blocking
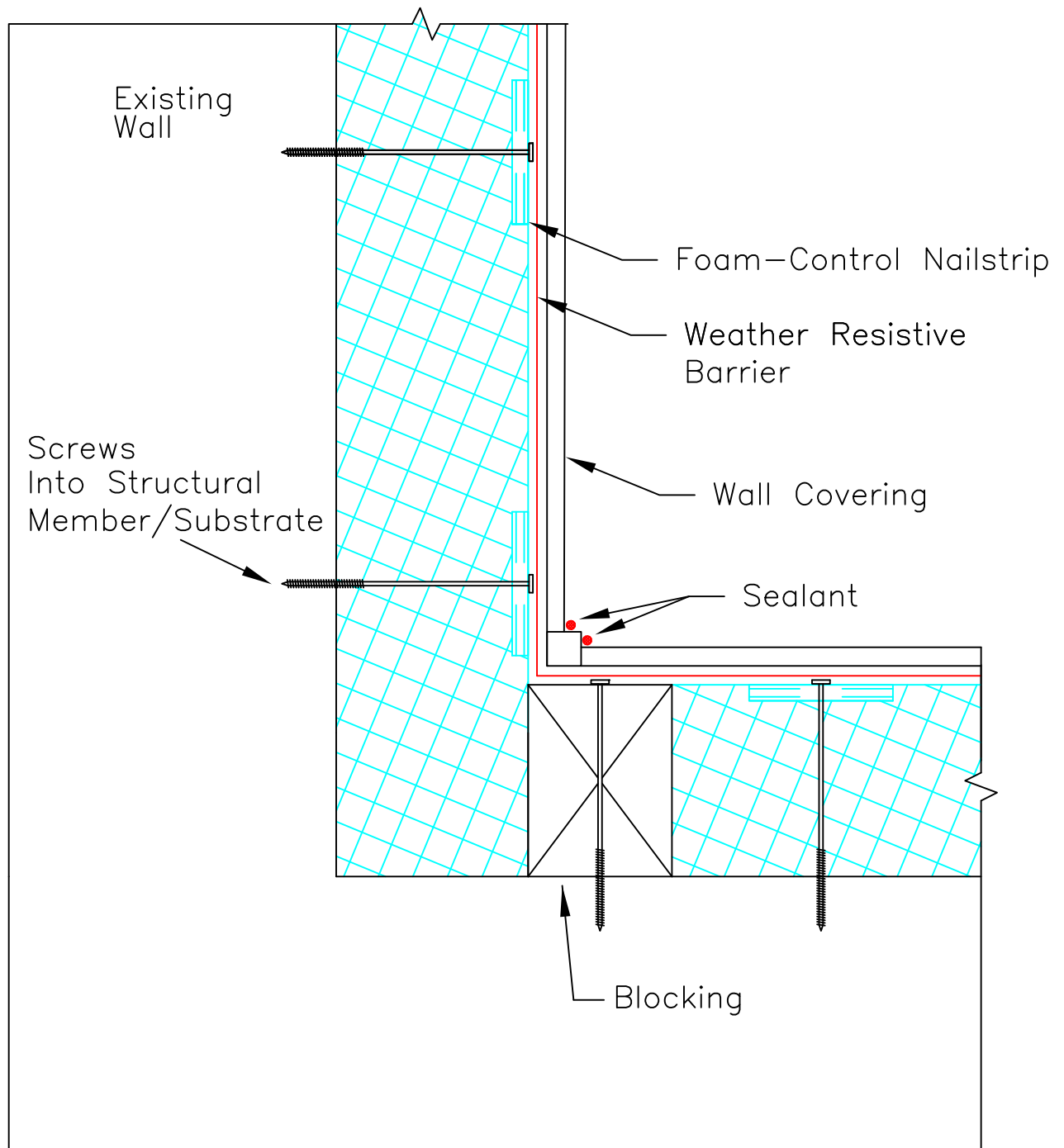
Updated 1—21—11

Foam—Control® Nailstrip

TITLE:
EXTERIOR INSIDE CORNER

NO.
FC—508

Existing
Wall

Screws
Into Structural
Member/Substrate

Foam—Control Nailstrip

Weather Resistive
Barrier

Wall Covering

<u>SECTION</u>
SCALE: NTS

Updated 1—21—11

Foam—Control® Nailstrip

TITLE:	NO.
EXTERIOR INSIDE CORNER	FC—508a

Nailstrip No. 8001

Subject: **Substrate Preparation and Installation**

Date: **April 2011 (Revised January 2019)**

Foam-Control® Nailstrip is an ideal insulation and nailable surface when applied over structural walls such as poured concrete, concrete block, brick, wood and steel framing.

Foam-Control Nailstrip must be applied to a solid sound structural substrate. Prior to installing Foam-Control Nailstrip, examine all areas of the substrate to make certain that adequate mechanical attachment can be achieved. Areas that are not adequately strong must be repaired or replaced. The substrate must be free of all contaminates that may cause damage to Foam-Control Nailstrip or inhibit attachment. The substrate surface additionally must be flat. Remove bumps, protrusions, and irregularities that may interfere with installation. Provide framing as needed around fixtures, pipes, services boxes, etc. as required.

The substrate should be plumb and square. If the substrate is out of square, provide square and plumb framing members at the boundary of the substrate prior to installation of Foam-Control Nailstrip.

If the substrate is not plumb determine the out of plane areas prior to installation and use the following general guidelines:

- Use Loctite® PL® 300 VOC Foamboard or similar polystyrene compatible adhesive to apply 3" diameter pillows of adhesive to the substrate on 12" centers vertically and horizontally.

  Note: Apply the adhesive thicker over indented areas and thinner in protruding areas.

- Apply the Foam-Control Nailstrip to the substrate and press firmly against the adhesive.
- Use a 6' flat edge board or similar to tamp the entire face of the Foam-Control Nailstrip until it is plumb and square.

- Apply Foam-Control fasteners in sufficient number to temporarily hold the Foam-Control Nailstrip in place without movement.
- After the adhesive has sufficiently cured, install Foam-Control fasteners per the specified installation pattern.

  Note: Structural substrates that are severely out of plumb may require longer screws at the "kicked in" areas.

Once installation of the Foam-Control Nailstrip is complete, attach appropriate cladding materials per the cladding manufacturers recommended installation guidelines.

AFM CORPORATION® FOAM CONTROL®

Foam-Control products are manufactured by AFM Corporation licensees.

Nailstrip No. 8002

Subject: **Rainscreens**

Date: **September 2011 (Revised January 2019)**

Rainscreens are a building science design strategy for exterior walls that incorporate a number of elements to reduce the potential for water damage. Rainscreens are most commonly used in regions that have significant rainfall. The key elements of a rainscreen are:

1. Exterior Cladding
2. Air Space
3. Drainage Layer
4. Airtight Wall

Rainscreen designs accept that water may penetrate the exterior cladding, but this water is subsequently removed by draining down the drainage layer and exiting out the bottom of the wall assembly. The drainage layer coupled with the air space provides an improved defense to resist potential damage from water to the wall and cladding materials.

Foam-Control® Nailstrip is ideal for use as part of a Rainscreen design when covered with a weather resistant barrier, furring, and an exterior cladding. Please refer to the attached detail.

Product Availability and Support.

Foam-Control Nailbase is supported by a team of experts who work with you to answer your questions, offer solutions, and do everything they can to make sure your project goes smoothly and ends successfully.

Ready to take control? Start here.

If you're ready to have Foam-Control contribute to your next project, just contact your nearest Foam-Control Nailbase manufacturer and Technical Sales Representative. We will be happy to give you design consultation, information about Foam-Control products, pricing, and answers to all of your questions.

PACIFIC ALLIED PRODUCTS Ltd.
MADE IN HAWAI'I, FOR HAWAI'I SINCE 1965
CAMPBELL INDUSTRIAL PARK
91-118 KAOMI LOOP KAPOLEI, HAWAII 96707
808-682-2038 888-824-3626
WWW.HAWAIIANFOAMCONSTRUCTION.COM

ENERGY STAR PARTNER

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