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1. BEFORE YOU BEGIN

Yakisugi “shou sugi ban” is heat treated to maximize wood longevity, minimize required maintenance, and is rot, bug, and fire resistant. However, **installation is the most critical factor in siding longevity.**

These installation guidelines are **minimum standards** to be followed in most North American locations. Since **climate conditions vary by region** and specific location, we recommend consulting with **local design professionals** on each project. Always follow both national and local **building code** requirements, **material manufacturer instructions**, and generally accepted construction **best practices**. Please reference the International Residential Code sections R703.1, R703.8, and IBC 1403.2.

The basic premise of exterior siding is to be a cosmetic facade that visually hides the weather-resistive barrier and flashing scope, and protects it from ultraviolet degradation. Natural wood siding, by nature, is porous and permeable. Siding is meant to be beautiful, not waterproof.

Moisture control and moisture vapor control are critically important elements of building design. **Exteriors must be properly sealed and flashed in a shingle fashion to prevent moisture intrusion and buildup.** Always have a design professional review these installation parameters relative to your local building code and regional best practices for managing moisture and water vapor in your area. Read and follow all material vendor installation requirements.

Nakamoto Forestry's limited warranty does not expressly or implicitly cover water penetration. Nakamoto Forestry does not assume responsibility for any water intrusion. Warranty remedies are not available if requirements are not followed.

Nakamoto Forestry and its representatives shall not be responsible or liable for any cause of action, loss, damage, injury, or death in any way connected with the information provided in this document. Responsibility remains with the project design professional and owner for the design, application, and proper installation of all Nakamoto Forestry products.

Warning: Drilling, sawing, sanding, or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

2. APPROPRIATE USES

Yakisugi is designed for:

- ✓ Exterior siding and trim
- ✓ Interior paneling and trim
- ✓ Soffit and ceilings
- ✓ Louver, ko-ushi and screen slats
- ✓ Fencing and railing pickets and trim
- ✓ Belly band
- ✓ Screen wall furring
- ✓ Beam or column wraps

Yakisugi is not designed for:

- ✗ Decking
- ✗ Flooring
- ✗ Furniture
- ✗ Countertops
- ✗ Trellises
- ✗ Planters
- ✗ Pergolas
- ✗ Stairs

3. DO'S AND DON'TS

Please Do:

- ✓ Order enough material
- ✓ Acclimate at site
- ✓ Wear PPE
- ✓ Handle carefully
- ✓ Layout intentionally
- ✓ Install vertical boards crown-up, rootstock-down
- ✓ Follow our furring and nailing specs
- ✓ Touch up field cuts and rips
- ✓ Wash the walls after installation

Please Do Not:

- ✗ Leave uninstalled wood materials in direct sun or rain
- ✗ Install directly over any WRB or drainage wrap
- ✗ Install in direct contact with masonry
- ✗ Bump-nail or overdrive fasteners
- ✗ Install wet wood
- ✗ Touch up nail heads with caulk
- ✗ Field-burn end cuts, rips, or notches
- ✗ Caulk without masking both edges

4. STORAGE AND ACCLIMATION

Acclimate yakisugi at the installation location with suitable air circulation for at least 14 days prior to installation. For exterior applications acclimate in an open garage or other location protected from weather. For interior applications acclimate in the climate controlled installation location.

Store off the ground, well supported, on a flat surface, and protected from direct sun and rain. Stack neatly with vertically-aligned stickers (spacers) between each layer, and at least 4" off of the ground. If yakisugi must be stored outside over open ground, first lay down a 100% moisture-proof barrier.

Inspect for damage and moisture content prior to installation.

Handle with extreme care during storage and installation. Touch up any damage to the finish that may occur during installation using touch up oil provided by Nakamoto Forestry with each order.

Always install stucco, plaster, painted or other adjacent façade scopes prior to installing wood siding. Always make sure that the siding staging and installation area is clean and free of mud, litter, dust or other hazards.

5. WEATHER-RESISTIVE BARRIERS (WRB), FLASHING, AND SCREEN WALL ASSEMBLIES

5.1 WEATHER-RESISTIVE BARRIERS (WRB)

Wood siding is not meant to be waterproof and is not meant to be the building's primary component to manage moisture. It is a prestige material showcasing both materials and workmanship, and is used as a cosmetic facade on the building. The primary technical function of wood siding is to protect the WRB from solar degradation or other damage.

Selection of the WRB system is the responsibility of the project design professional.

We recommend asphalt or butyl wrap behind furring and trims if the siding fasteners will penetrate the WRB. Screen wall assemblies can be designed for minimal WRB penetrations by using thicker furring or deeper screen wall cavities.

5.2 FLASHING

Properly integrate flashing with the secondary WRB. Use house wrap, flashing tape, z-flashing, or other items as required to maintain the counterflashing and shingle principles. Always install WRB and flashing in a shingle fashion. Never rely on the adhesive or elastic qualities of self-adhesive flashing to resist water intrusion. Always install components according to the manufacturer's written instructions.

It is better to have flashing between the furring and WRB, not between the furring and siding. **See Appendix page N1.10 diagrams C and E, etc.**

Extruded, folded, or other trims, such as window and door trims or inside and outside corner trims, are not

flashing and are not a moisture management system. They have a primarily cosmetic function and will not stop all water intrusion into the structure.

5.3 SCREEN WALL ASSEMBLIES

A vented air gap between the water-resistive barriers WRB and the siding is crucial to long term wood integrity. Furring in a rain screen wall assembly must be used to create this air gap. Rain screen wall assemblies must be designed in consideration of window frame thickness and other details.

Installation directly to the WRB can trap moisture and cause siding to rot. Tannic acid in the natural wood siding can also chemically degrade some WRB's if in direct contact. Lack of back-venting can result in dimensional movement and premature oil finish weathering. Additionally, vented walls cool the structure during the summer and heat it during the winter.

Nakamoto Forestry products are not designed to be installed directly over dimple wrap, breathable mesh, or drainage wrap. **See Appendix pages N1.06 and N1.10.** Resin mesh or crinkled underlayment is not rigid enough to keep siding in a flat plane, and will take on a wavy appearance if nailed with too much force. Dimple underlayment does not have a large enough air gap to allow the siding to dry out quickly.

Furred rain screens can either be open both top and bottom, or open only on the bottom. Top-vented rain screens are generally more energy efficient and allow the siding to dry out more quickly. High fire zones may require screens open only on the bottom in order to mitigate any wall cavity flue effect. **See Appendix diagrams N1.01-N1.05.**

Use UV-resistant black screen wall components if there are specified gaps between siding boards.

Use a perforated J channel or other calibrated screen at the intake and exhaust of vented walls for gauged air flow. This is important in high fire zones to prevent screen wall cavity flue effect. It is also required in some regional codes to prevent stale air in the screen wall cavity.

For walls vented up to 20' height, a furring thickness minimum of 3/8" is required. For walls vented 20–30' height, a furring thickness minimum of 1/2" is required. For best results 3/4" or thicker furring is recommended.

Install at least one vent every 30' of vertical wall.

A vented bond line with z-bar flashing or a vented belly band can be designed into each floor on multi-story projects.

6. FURRING

6.1 FURRING MATERIALS

- UV- and compression-resistant resin, aluminum or stainless steel perforated engineered furring.
- Pressure-treated wood or plywood, or marine-grade plywood ripped into furring.
- #2 standard and better construction grade solid-sawn cedar, cypress, redwood, Douglas fir, larch, pine, or other dimensionally-stable species with suitable strength.

Install all furring in conjunction with a flashing tape, self-healing membrane, or sealant to minimize potential water intrusion at fastener penetrations.

If preservative-treated wood furring is used, confirm with fastener, furring, trim, and WRB manufacturers that the products are compatible for use and any warranties are not voided. Wood pressure treated with some chemicals may degrade aluminum or other materials.

Furring and other substrate materials must be maximum 15% moisture content before siding is installed.

Do not use chip, wafer, or compressed board for furring.

Use a minimum furring width of 1 1/2". 3 1/2" or wider furring width is recommended.

6.2 FURRING INSTALLATION

Nail or screw furring to structural framing, then nail or screw the siding to the furring. Locate all joints over solid bearing. It is the responsibility of the project design professional to decide furring fastening specification. Always read and follow the manufacturer's written instructions for each component.

Before installing the siding use a string line over the furring bed and shim the furring as required to achieve a flat wall plane.

6.3 RAIN SCREEN OPTIONS FOR HORIZONTAL SIDING LAYOUTS

- Wood or engineered furring in vertical orientation. **See Appendix diagrams N1.08 and N1.09.**
- UV- and compression-resistant resin, aluminum, or stainless steel engineered furring in vertical orientation. **See Appendix diagram N1.08 and N1.09.**

6.4 RAIN SCREEN OPTIONS FOR VERTICAL SIDING LAYOUTS

- Criss-cross vented wall assembly. **See Appendix diagrams N1.07 B and N1.10 F.**
- Perforated furring or spacer installed under horizontal wood furring. **See Appendix diagram N1.10 D.**
- UV- and compression-resistant resin, aluminum or stainless steel engineered furring with sufficient lateral air flow. **See Appendix diagram N1.10 A.**
- Diagonal furring. **See Appendix diagram N1.06 A.**

6.5 INSTALLATION OVER RIGID INSULATION

If there is rigid insulation between the furring and sheathing, use 1 1/4" or thicker #2 and better grade solid-sawn softwood furring. Siding installed over rigid

insulation may take on a wavy appearance if thin or engineered non-structural furring is used.

Size furring and screws to adequately anchor the furring through the insulation into the wall framing in order to support the cladding scope. It is the responsibility of the project design professional to specify a suitable solution for each condition.

Nakamoto Forestry assumes no responsibility for any damage or conditions arising from the use of rigid foam insulation sheathing or exterior gypsum materials.

6.6 INSTALLATION OVER MASONRY

Siding must not be in direct contact with masonry, Insulated Concrete Forms (ICF), concrete, brick, stone, stucco, or mortar.

For installation over masonry or ICF walls, the walls must be furred out with air flow designed in between the structural wall and siding. Open vents at the top and bottom of the wall allow for convective ventilation between framing spaced 16" on center or less. The framing must be of adequate thickness to accept 1 1/2" or more fastener penetration.

Furring in direct contact with masonry must be suitably treated with chemical preservative.

A moisture break such as butyl tape, spacers, or WRB must be between the masonry and siding.

Nakamoto Forestry assumes no responsibility for any damage or conditions arising from installation in conjunction with masonry.

6.7 INSTALLATION OVER HAT CHANNEL OR GIRTS

Siding must not be in direct contact with hat channel or girts. Screw furring into the hat channel or girts, then nail or screw the siding to the furring.

Use 1 1/4" or thicker #2 and better grade solid-sawn softwood furring.

Size furring and screws to adequately anchor the furring to the wall framing in order to support the cladding scope. Siding installed over hat channel

or girts may take on a wavy appearance if thin or engineered non-structural furring is used. It is the responsibility of the project design professional to specify a suitable solution for each condition.

Nakamoto Forestry assumes no responsibility for any damage or conditions arising from the use of hat channel or girt assemblies.

7. LAYOUT, BOND LINES, BUTT JOINTS, AND CLEARANCES

7.1 LAYOUT

The siding layout and bond line pattern for the entire structure should be decided before starting installation.

Do not install shiplap boards spread out further than our specified reveal since shrinkage may expose the substrate. Specified reveal for 6" nominal shiplap widths is 5 5/16" on center, for 8" nominal shiplap widths is 7 5/16" on center.

7.2 BOND LINES AND BUTT JOINTS

Locate all siding joints and fasteners over furring.

Bond lines and butt joints can be either staggered or inline. For best appearance staggered joints must always be laid out intentionally, not randomly. Staggered butt joints must have two unbroken rows of siding between joints. **See Appendix N1.08 diagram B, etc.** Inline bond lines can be covered with trim, or with a flashing or trim matched to the condition. **See Appendix diagrams pages N1.06-N1.09.**

Scarf joints of 15°-22.5° will allow deflection, minimize buckling, and weep quickly. Scarf joints are also cosmetic since the oiled field end cut will blend in if the boards shrink in length. Do not use acute scarf angles over 22.5° since the feathered edge will degrade over time. **See Appendix page N1.10 diagram A, also N1.12 diagrams A and B.**

Confirm local code since some jurisdictions may require that all horizontal cladding plank butt or scarf joints be flashed to drain over the row below. **See Appendix N1.12 diagram B.**

7.3 CLEARANCES

Minimum 8" clearance must be maintained between the siding and grade. It is the responsibility of the project design professional to follow local code, consider the adjacent type of grade cover, and to consider snow drifts and rain splash. We recommend a masonry perimeter beam or inorganic wainscoting to keep the wood siding above the snow or rain splash line. **See Appendix page N1.11 A.**

Minimum 2" clearance must be maintained between siding and roof, or other horizontal surfaces. It is the responsibility of the project design professional to follow local code, and to consider snow drifts and rain splash.

Minimum 1/4" clearance must be maintained between the siding edge or butt, and termination flashing or trim, as a water tension break. **See Appendix pages N1.07 A, N1.09 A, N1.10, N1.18 etc.**

In high-fire zones such as a Wildland Urban Interface, combustible materials such as wood siding must be at least 6" above all exterior horizontal surfaces due to potential ember build-up at the grade-wall, roof-wall, or other transitions.

8. EXTERIOR FASTENERS AND FASTENING

8.1 EXTERIOR FASTENERS

Use 316 grade stainless steel ring-shank headed siding nails or screws. Nails must have diamond or blunt tips, and siding heads. Do not use casing nails or nails with needle tips.

Exposed fastener heads can be factory- or site-painted to match the siding color. For site-painted nails use an etching type bonding primer or paint specified for adhesion to stainless steel. Paint fasteners prior to installation. Plastic hammer-head covers can be used to minimize nail head paint scuffing.

8.2 EXTERIOR FASTENING

Yakisugi "shou sugi ban" should always be face-nailed or screwed in exterior applications. Due

to seasonal dimensional movement as the siding acclimates to the environment, exterior softwood siding moves too much to be blind nailed. Tongue and groove profiles trap moisture and are primarily designed to be used as interior paneling. Yakisugi is not designed for a hidden clip system.

Install two (2) fasteners every 16" or less on center. Keep fasteners 3/4"-1" from each plank edge. **See Appendix diagrams N1.12 A and B.**

Locate all fasteners over furring.

Do not staple, nail, or screw the male tongue edge on shiplap profiles.

Local furring and sheathing building code must be met for siding fastener pull-out strength. Below are recommended minimum options:

- 1 1/4" ring- or screw-shank fastener penetration into solid-sawn wood.
- 7/16" category wood structural panels with an APA Trademark that contains the consensus Standard DOC PS 2, with siding fasteners penetrating minimum 1/4" out the back side.
- 3/4" or thicker wood furring with fasteners penetrating minimum 1/4" out the back side.

Fastener purchase is often achieved with a combination of furring plus sheathing thicknesses.

Nail at least 1.5" in from an end cut, and 2" in from a miter cut. Pre-drill for fasteners near board ends to prevent splitting as required. **See Appendix diagrams N1.06-N1.09 and N1.12 A and B.**

Coil or hand-drive nails should be flush-nailed by hand. Do not drive fasteners below the wood surface.

Stainless steel 15-23 gauge pin nails may be used on miters or other joints but do not add to siding fastener pull-out strength.

Due to ferrous streaking and local code compliance, we recommend 316 grade stainless steel fasteners.

Use painted or brite stainless steel fasteners to match or contrast with the siding in color.

9. EXTERIOR SIDING INSTALLATION AND INTERIOR PANELING INSTALLATION

The installers will get soot on their hands and tools from the plank edges, backsides, and from cutting. During installation, regularly wash hands with water, and avoid rubbing your nose or touching your face.

Use a sharp carbide-tipped ultra-fine finishing saw blade for cutting or ripping Nakamoto Forestry products.

Wear an OSHA-approved dust mask, and hand, eye and ear protection when cutting and installing Nakamoto Forestry products.

Verify that the structure and surfaces to receive the siding are straight, plumb, true, solid, rigid, dry, and otherwise properly prepared.

Paint field cuts with touch up oil supplied by Nakamoto Forestry.

9.1 EXTERIOR SIDING INSTALLATION

Only specify coatings designed for exterior applications on exterior scopes.

Do not install framing, furring, or siding that tests over 15% mc in exterior applications. The mc of the siding should be allowed to equalize to the local climate. Depending on the region and season, equalized mc can range between 7-15%.

Touch up scuffed painted fasteners after installation with an industrial-grade UV-resistant paint. Dab each nail head using a paint pen, 1/4" artist brush, or cigarette filter dipped in touch up paint.

The Suyaki™ soot layer can be easily damaged. Handle with extreme caution and plan on touching up blemishes after installation with touch up oil that Nakamoto Forestry provides with each order. Blemishes will occur and are the nature of the product.

Start the siding installation on a side or back elevation first to get accustomed to the siding and substrate. Then move on to more visible areas. High-grade boards in more visible areas.

Nail each plank independently from one another. Do not nail through overlaps. Differential movement plank to plank can cause splitting if nailed through both planks.

Vertical shiplap layout is designed to be sequentially installed overlapping left to right.

Boards installed in vertical orientation should be oriented with the origin tree crown up and rootstock down for a book-matched appearance. For S3S or S4S planks review each board to orient accordingly. Growth ring patterns show the log tapering up, and most knots point up and out. There is generally more heartwood in each plank towards the root end, and more sapwood towards the crown end.

Since yakisugi is an organic material with natural color and tone variation, finished wall appearance will be more consistent if the boards are sorted by tone before installation. This is especially true with our Pika-Pika™ and Sugi products. Sort for color and tone in lots of 20-50 boards at a time. Stand them on end against a wall in a neat line and move the lighter boards to one end and the darker boards to the other end in a progression. Then install intentionally for an even tone overall.

For vertical siding installation plumb every third course. For horizontal layout, work off of a horizontal baseline and work up or both directions. A full scope chalk, pencil and/or marker wall grid can be laid out in advance of installation based on the siding board's specific reveal. Refer to the ordered product spec sheet for the reveal to lay out.

Install each wall section in a stepped process for best result:

- A. Sequentially nail each board on the wall with two or more fasteners paying attention to layout and joints.
- B. Complete the entire wall section fitting the boards together carefully.

- C. Complete installation of all fasteners on the wall section. Do not overdrive fasteners past flush. It is better to slightly underdrive pneumatic fasteners with the siding coil nailer.

- D. Straighten each board by pushing it into the wall with your free hand as you flush-nail the fasteners by round-face hammer or screw gun.

Nail off a wall section immediately if in direct sun to prevent movement.

After installation, hose down exterior walls to wash off soot residue.

9.2 INTERIOR PANELING INSTALLATION

Only specify coatings designed for interior applications on interior scopes.

Interior applications do not require furring, and yakisugi or sugi can be installed the same as any wood paneling. It is generally glued to the substrate with a tube type construction adhesive and pinned in place with standard trim-head nails while the adhesive dries.

Do not install substrate, paneling or trim that tests over 12% mc in interior applications.

After installation, wipe down interior walls with a wet cloth and bucket of water.

10. WOOD AND METAL CASING AND TRIM, AND SHADOW GAP DETAILING

Siding thickness is an important specification when planning trim, penetrations, or other details. Nakamoto Forestry's yakisugi "shou sugi ban" is standard at 9/16" thickness. Thicker board stock is dimensionally unstable during the high temperature heat treatment due to moisture content variation.

Minimalist details such as folded or extruded metal trims, or simply a shadow gap, can be used instead of wooden trim details. **See Appendix pages N1.10-N1.18.**

10.1 TRADITIONAL THICK STOCK AND OVERLAY WOOD CASING AND TRIM

10.1.1 THICK STOCK WOOD CASING AND TRIM

For traditional 1-2" thick casing or corners use locally sourced kiln dried wood in the specified dimension. Stain it to match or contrast the yakisugi "shou sugi ban" siding. The siding field can be butted to the thick stock trim or the trim rabbeted to receive it. **See Appendix pages N1.14-N1.16.**

If butting the siding field into casing, corners or utility blocks, leave a 1/4" shadow gap from board ends and ribs. **See Appendix pages N1.15-N1.16**

10.1.2 OVERLAY WOOD CASING AND TRIM

Another option is to use Nakamoto Forestry yakisugi "shou sugi ban" S3S or ripped boards as overlay trim as is common practice in the Southeast U.S.A. Coat field ripped edges with touch up oil supplied by Nakamoto Forestry to match the face color. Install the trim over the siding field as casing around windows and doors, along corners and frieze, etc. Install with two siding face nails every 16" on center. **See Appendix pages N1.12 D, N1.14 C-E, and N1.16 C.**

10.2 METAL TRIMS

Extruded and folded metal trim profiles such as J, Z, or H terminations or transitions, outside or inside corners, or perforated profiles to allow air flow, are readily adaptable to yakisugi "shou sugi ban" applications. Returns in the profiles can hide siding cut ends, allowing more measurement tolerance and a faster installation time. **See Appendix pages N1.12 D, N1.14 C-E, and N1.16 C.**

Metal trims such as window and door trims or inside and outside corner trims are not flashing and are not a moisture management system. They have a primarily cosmetic function and will not stop all water intrusion into the structure. Always follow manufacturer installation instructions.

10.3 SHADOW GAPS

Shadow gaps visually hide small tolerance variation, break water tension, and help with air circulation.

They can lower installation cost by deleting trim materials, allowing faster installation, and simplifying the design. Leave a minimum of 1/4" clearance between board ends and edges, and adjacent trim or flashing, to create the shadow gap. All exposed substrate behind shadow gaps must be UV-resistant and black. Vertical shadow gaps can be grouted with caulking if desired. Leave horizontal shadow gaps open to act as a weep. All field cuts on prefinished siding must be painted with touchup oil supplied by Nakamoto Forestry. **See Appendix pages N1.10, N1.13, and N1.15-18.**

11. OIL COATINGS AND TOUCH UP

Water-based coatings are opaque and have an overnight dry time. When wet, water-based coatings clean up with soap and water. Linseed and tung oil coatings are semi-transparent and have a 2-7 day dry time. Oil-based coatings clean up with mineral spirits.

Be extremely careful with rags soiled by oil or solvent, since they can spontaneously combust.

If siding batts or trim is ripped from wider planks, use a small roller or brush to paint the ripped edges with touch up oil.

Additional or maintenance coats of oil can be applied by roller, brush, or spray rig. If rolled or sprayed, back-brush with a 5" or equivalent professional-grade stain brush for a more even finish. Always follow the coating manufacturer's application instructions and always test a sample swatch before applying to the entire wall surface.

Keep touch up oil for painting cut ends readily accessible, in the shade, near the cut station. Use a rag or brush to blend any drips.

12. CAULKING

Use a drying-type, color-matched, and high-grade urethane-modified caulk with high elasticity and adhesion.

Mask off both caulk line edges to achieve a clean, narrow, and straight caulk line. Never caulk horizontal gaps since they act as a weep or vent.

13. MAINTENANCE

Yakisugi should never be scraped, sanded, or pressure washed.

A very weak TSP or soap solution, neutral pH cleaner, or simply clean water, can be applied with a cloth or soft brush to wash off pollen, dirt, dust, etc. Exterior siding should be hosed down regularly to keep it clean and appearance fresh.

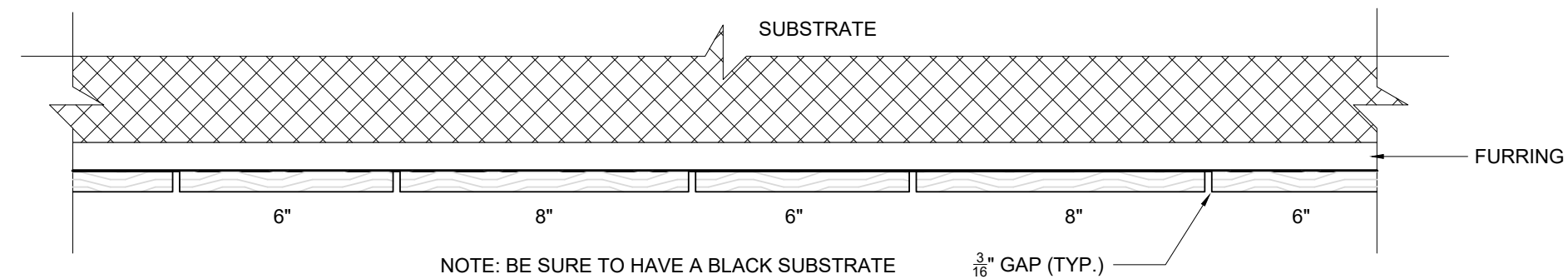
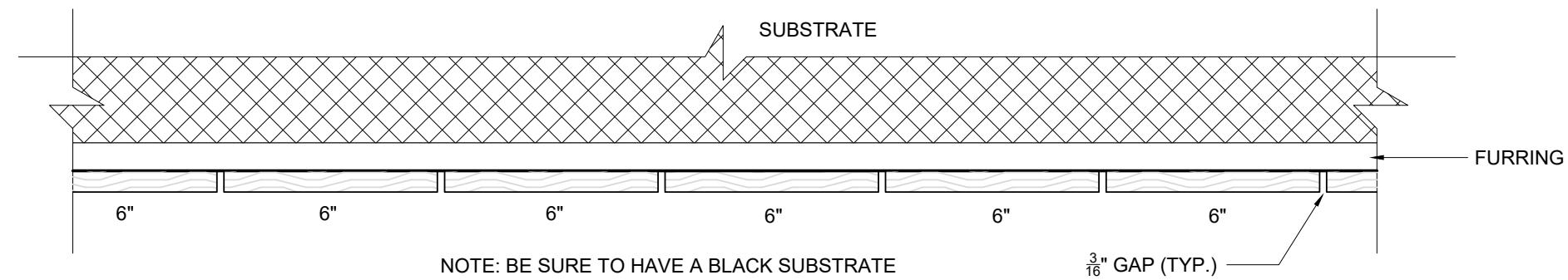
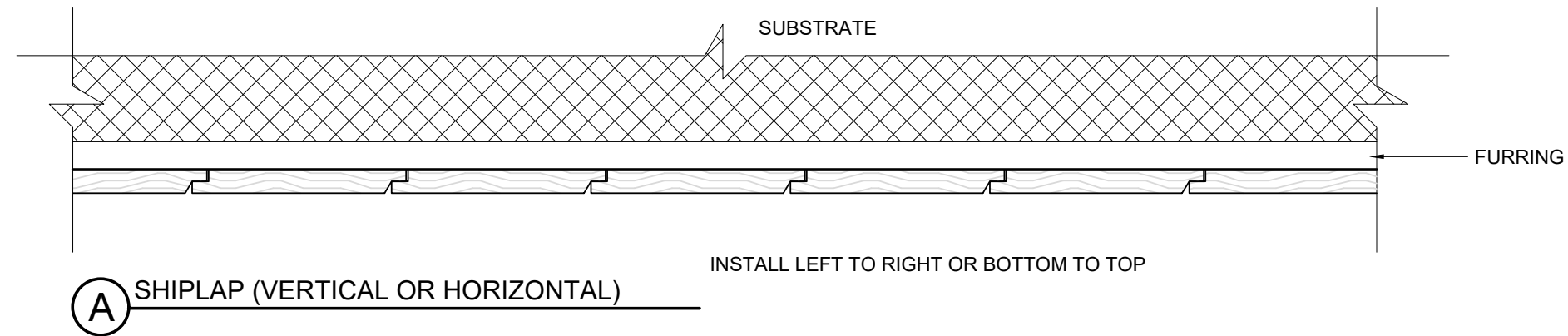
Touch up damage such as scratches or dings, or local uneven weathering, with touch up oil. Wipe off oil residue to prevent glossy spots.

Heat treatment improves wood durability, but even with UV-resistant coatings the siding color will evolve over time in a natural weathering process. The living finish is not considered a defect but rather a virtue to be savored. If blemishes or color change are not desired, touch-up or recoating can be done at any time.

To keep siding color consistent over time, apply a maintenance coat of finish when the wood begins to change color.

Before application of a maintenance coat of oil, clean and prepare the surface as specified by the finish manufacturer. Always clean and refinish a hidden test area before attempting the entire wall surface.

Use a hammer to tighten up loose fasteners over time as required. Add face fasteners if needed to maintain a flat wall plane.



GENERAL NOTES:

1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
2. FURRING AND HEADED FACE NAILS REQUIRED FOR ALL EXTERIOR INSTALLATIONS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS.
4. THESE DETAILS ARE NOT FOR CONSTRUCTION. NAKAMOTO FORESTRY TAKES NO RESPONSIBILITY FOR THE DESIGN AND CONSTRUCTION OF CUSTOMER PROJECTS. THESE DRAWINGS ARE FOR EXAMPLE REFERENCE ONLY.

NOT FOR CONSTRUCTION



NAKAMOTO FORESTRY

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 Warehouse & Office – (by Appt. ONLY)
 7320 NE 55th Ave
 Portland, OR 97218

Project Title:

**SIDING & PANELING
 LAYOUT SUGGESTIONS**

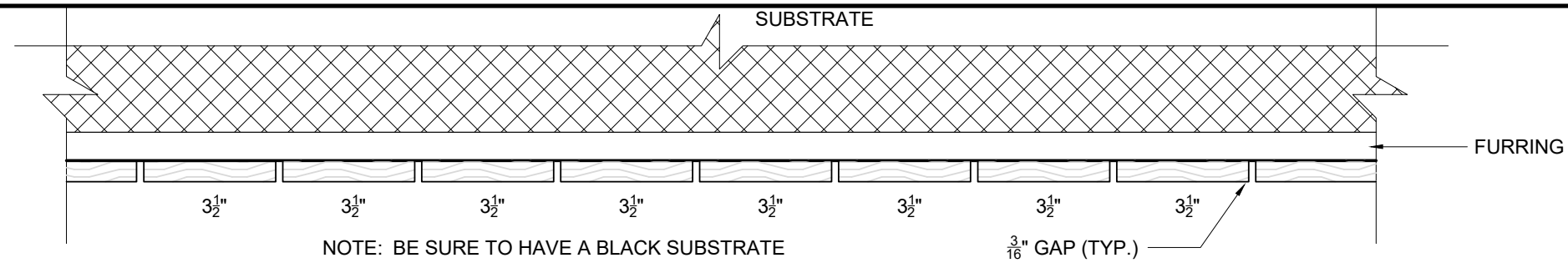
No.	Revision Date	Description
#3	03/18/2021	Beleck Rev.

Project No. 000-000

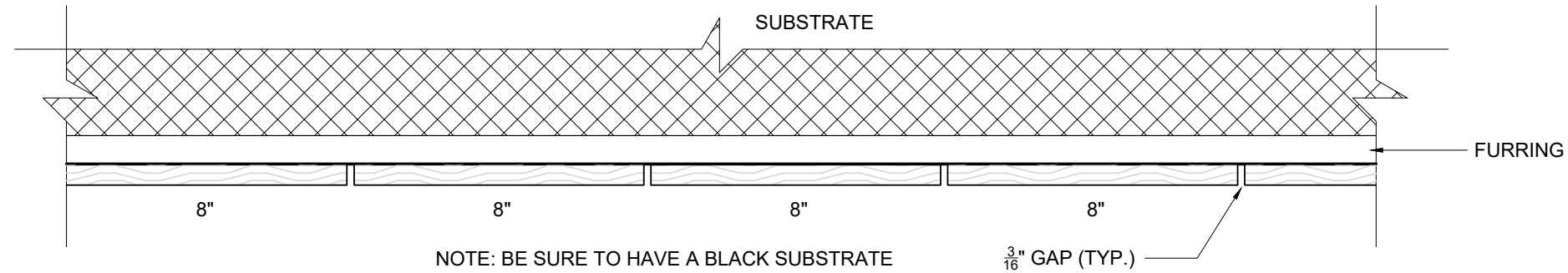
Drawn By: PLM, SMH

Date: 11/20/2019

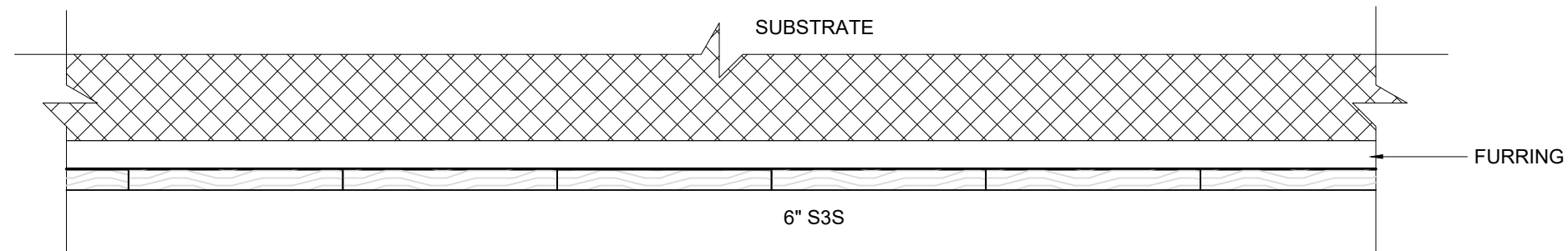
Drawing No.
N1.01



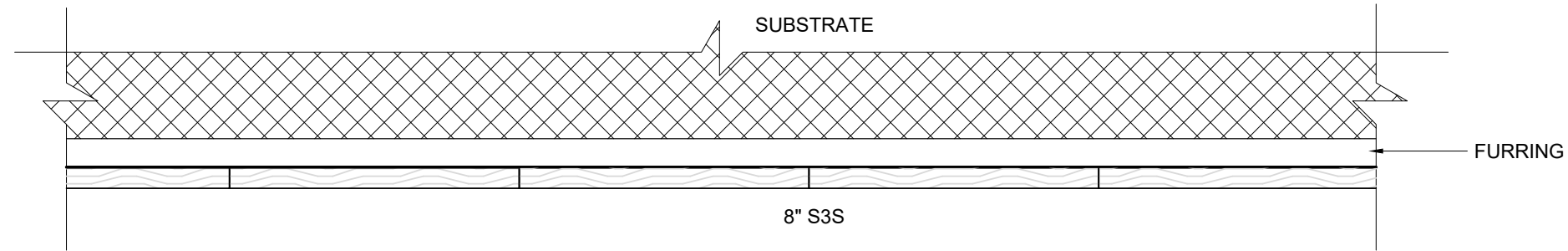
(A) 3 1/2" OPEN SCREEN (RIPPED FROM 8"W, VERTICAL OR HORIZONTAL)



(B) 8" OPEN SCREEN, 8" S3S (VERTICAL OR HORIZONTAL)



(C) 6" CLOSED SCREEN, 6" S3S



(D) 8" CLOSED SCREEN, 8" S3S

GENERAL NOTES:

1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
2. FURRING AND HEADED FACE NAILS REQUIRED FOR ALL EXTERIOR INSTALLATIONS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS.
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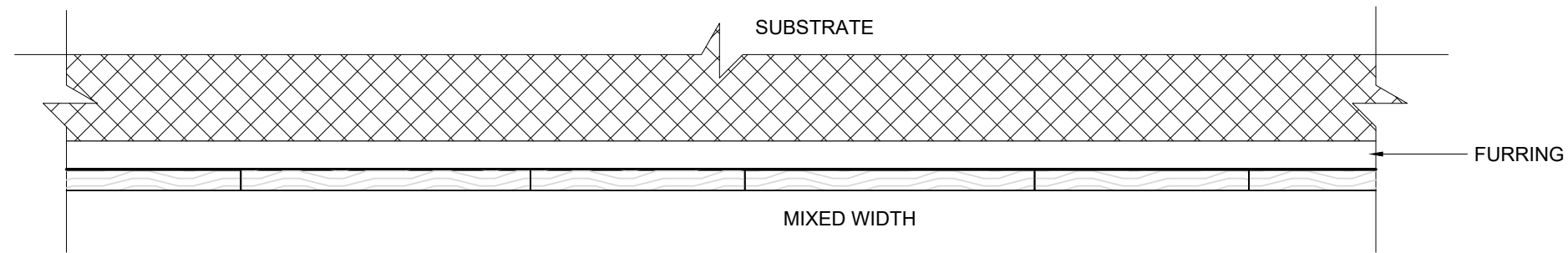
Tel. +1-503-512-6780
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 Warehouse & Office – (by Appt. ONLY)
 7320 NE 55th Ave
 Portland, OR 97218

Project Title:
**SIDING & PANELING
 LAYOUT SUGGESTIONS**

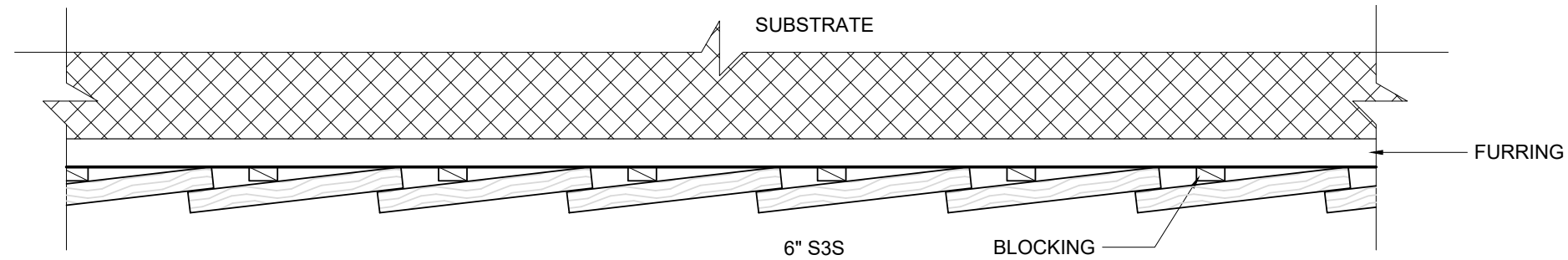
Project No. 000-000
 Drawn By: PLM, SMH
 Date: 11/20/2019

No.	Revision Date	Description
#4	05/19/2021	Beleck Rev.

Drawing No.
N1.02



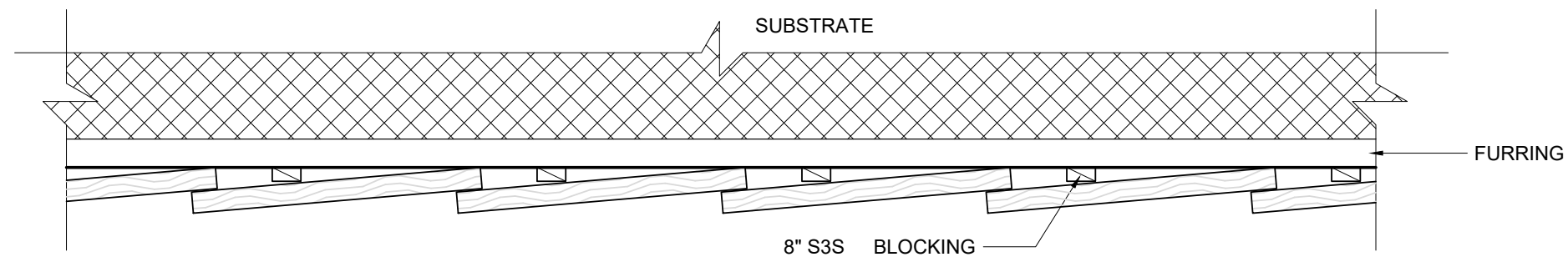
A 6" & 8" CLOSED SCREEN, 6" & 8" S3S



NOTE: OVERLAP MINIMUM 1"

BE AWARE THAT LATERAL CUPPING IS LIKELY WITH THIS LAYOUT IF BLOCKS ARE NOT INSTALLED

B 6" VERTICAL OR HORIZONTAL CLAPBOARD



NOTE: OVERLAP MINIMUM 1.5"

BE AWARE THAT LATERAL CUPPING IS LIKELY WITH THIS LAYOUT IF BLOCKS ARE NOT INSTALLED

C 8" VERTICAL OR HORIZONTAL CLAPBOARD

GENERAL NOTES:

1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
2. FURRING AND HEADED FACE NAILS REQUIRED FOR ALL EXTERIOR INSTALLATIONS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS.
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Project Title:
**SIDING & PANELING
 LAYOUT SUGGESTIONS**

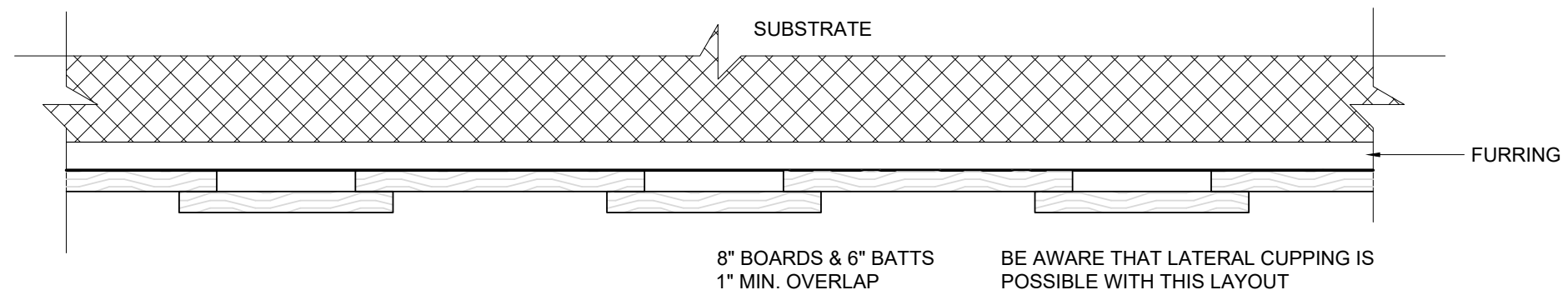
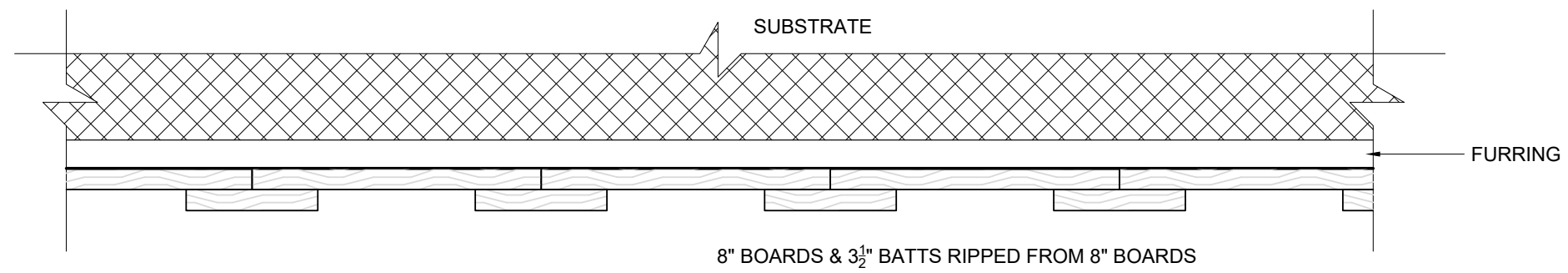
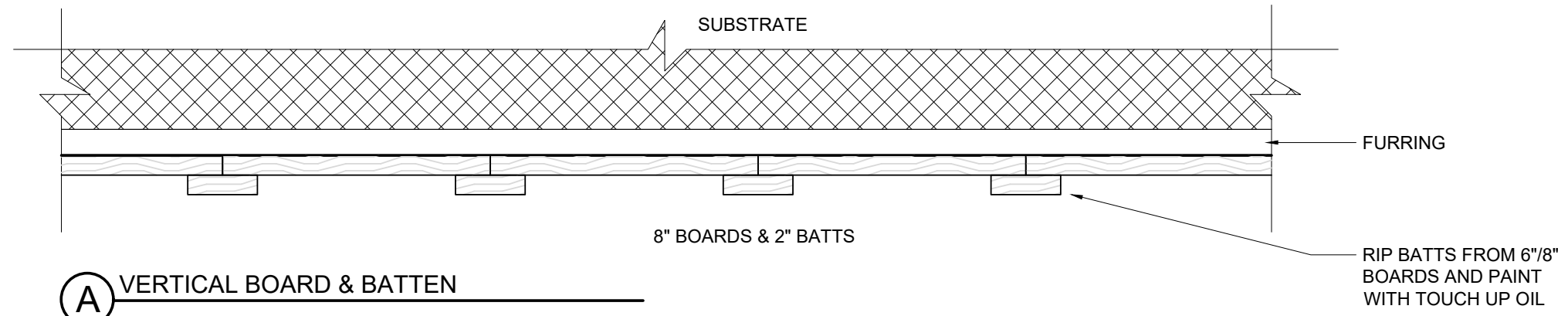
Project No. 000-000

Drawn By: PLM, SMH

Date: 11/20/2019

No.	Revision Date	Description
#4	03/18/2021	Beleck Rev.

Drawing No.
N1.03



GENERAL NOTES:

1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
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3. VERIFY ALL DIMENSIONS AND ELEVATIONS.
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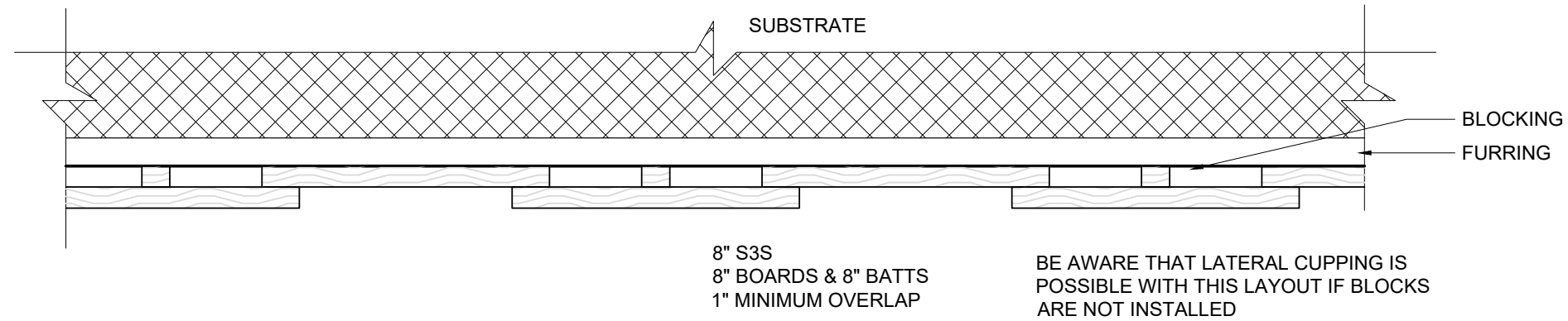
Tel. +1-503-512-6780
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 7320 NE 55th Ave
 Portland, OR 97218

Project Title:
**SIDING & PANELING
 LAYOUT SUGGESTIONS**

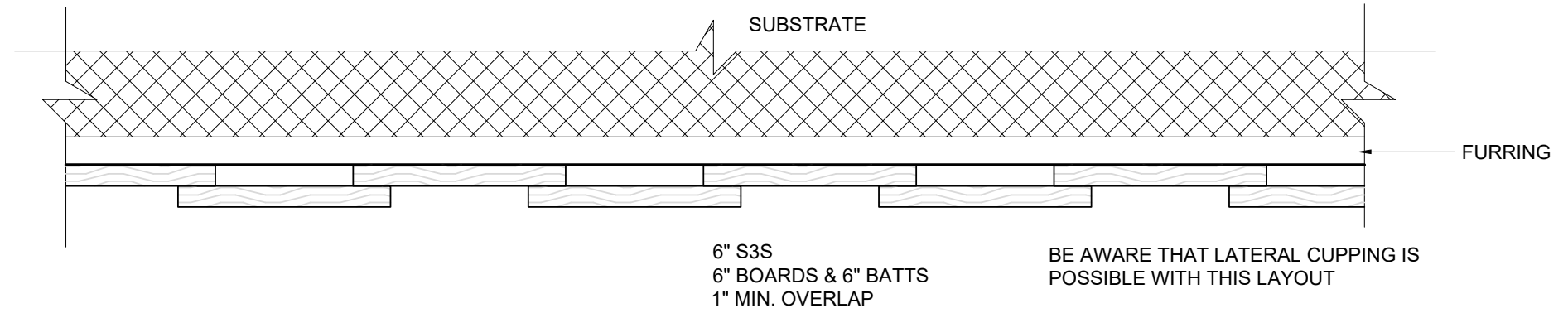
Project No. 000-000
 Drawn By: PLM, SMH
 Date: 11/20/2019

No.	Revision Date	Description
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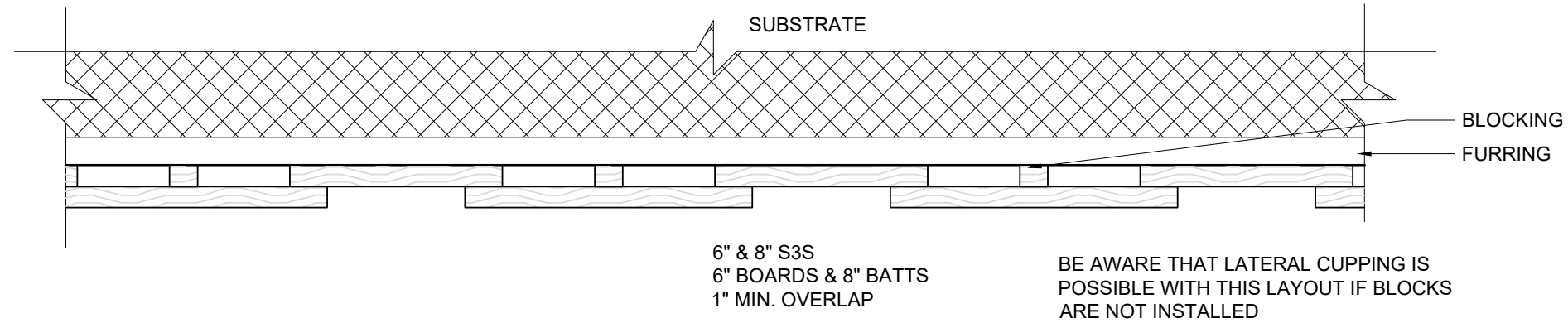
Drawing No.
N1.04



(A) VERTICAL BOARD & BATTEN



(B) VERTICAL REVERSE BOARD & BATTEN



(C) VERTICAL REVERSE BOARD & BATTEN

GENERAL NOTES:

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3. VERIFY ALL DIMENSIONS AND ELEVATIONS.
4. THESE DETAILS ARE NOT FOR CONSTRUCTION. NAKAMOTO FORESTRY TAKES NO RESPONSIBILITY FOR THE DESIGN AND CONSTRUCTION OF CUSTOMER PROJECTS. THESE DRAWINGS ARE FOR EXAMPLE REFERENCE ONLY.

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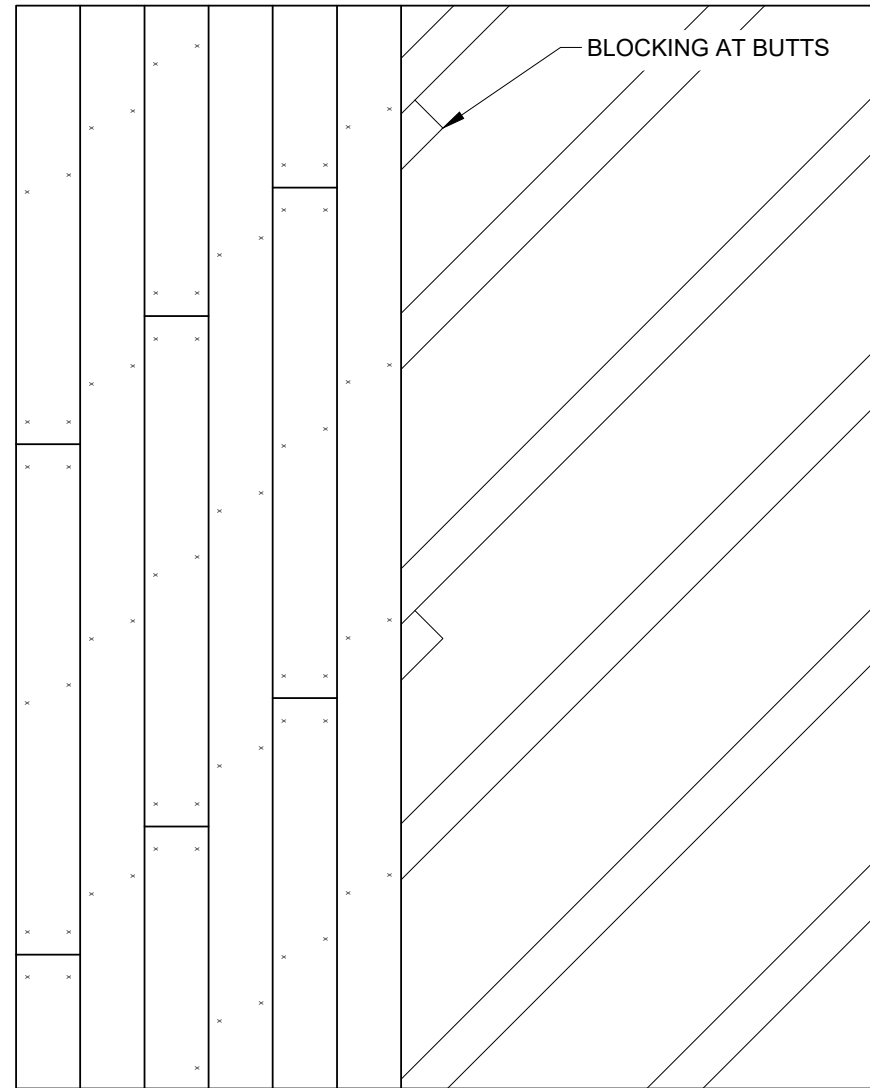
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Portland, OR 97218

Project Title:
**SIDING & PANELING
LAYOUT SUGGESTIONS**

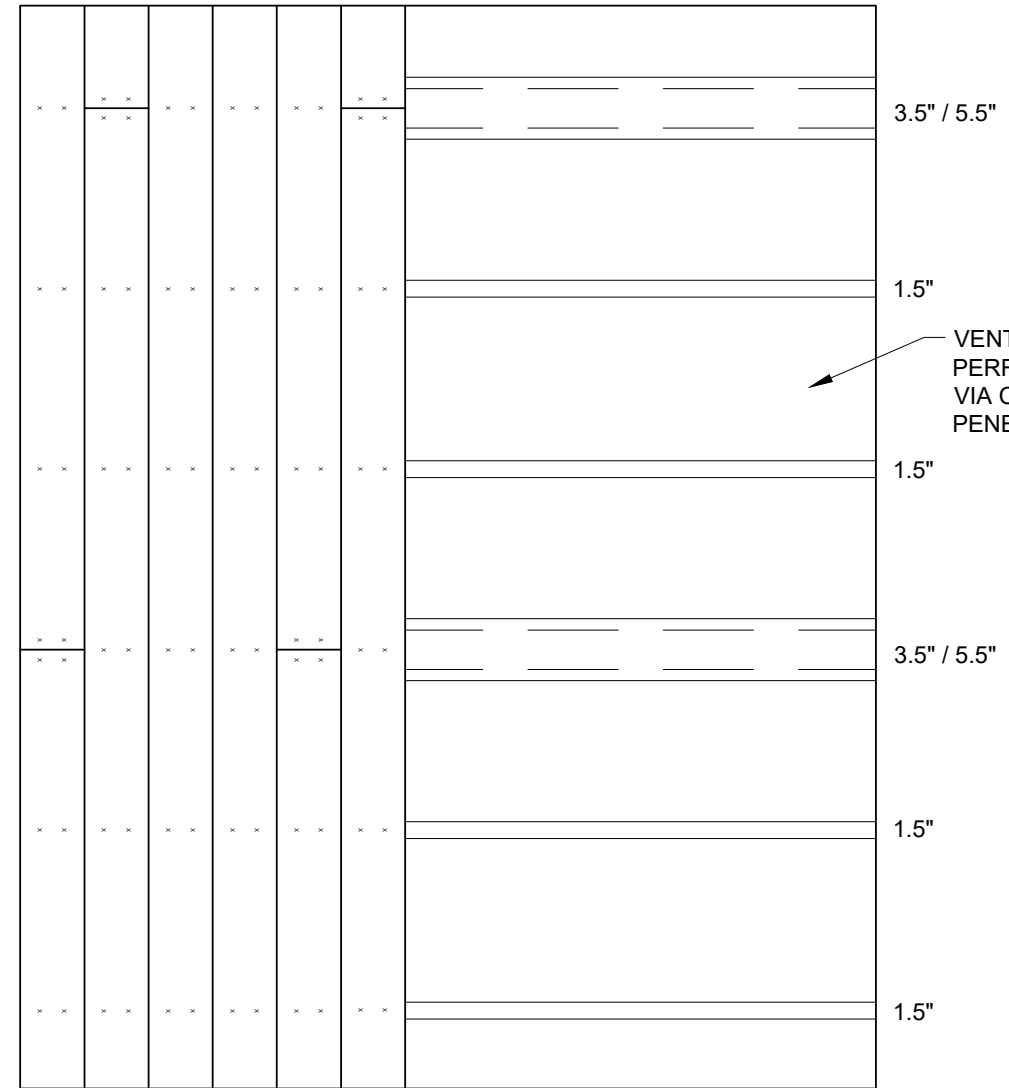
Project No. 000-000
Drawn By: PLM, SMH
Date: 11/20/2019

No.	Revision Date	Description
#	05/19/2021	Beleck Rev.

Drawing No.
N1.05



DIAGONAL FURRING
VENTED TOP, BOTTOM,
CORNERS, AND PENETRATIONS



VERTICAL FURRING
3.5" MINIMUM FURRING WIDTH FOR
BUTTS IF PRE-DRILLED (SHOWN DASHED)
5.5" MINIMUM FURRING WIDTH FOR
BUTTS IF NOT PRE-DRILLED
1.5" MINIMUM FURRING WIDTH FOR
INTERMEDIATE STRIPPING

VENTED BY MESH WRAP,
PERFORATED FURRING,
VIA CORNERS AND
PENETRATIONS, ETC.

A RAIN SCREEN FURRING LAYOUT SUGGESTIONS

B SIDING & PANELING LAYOUT SUGGESTIONS

GENERAL NOTES:

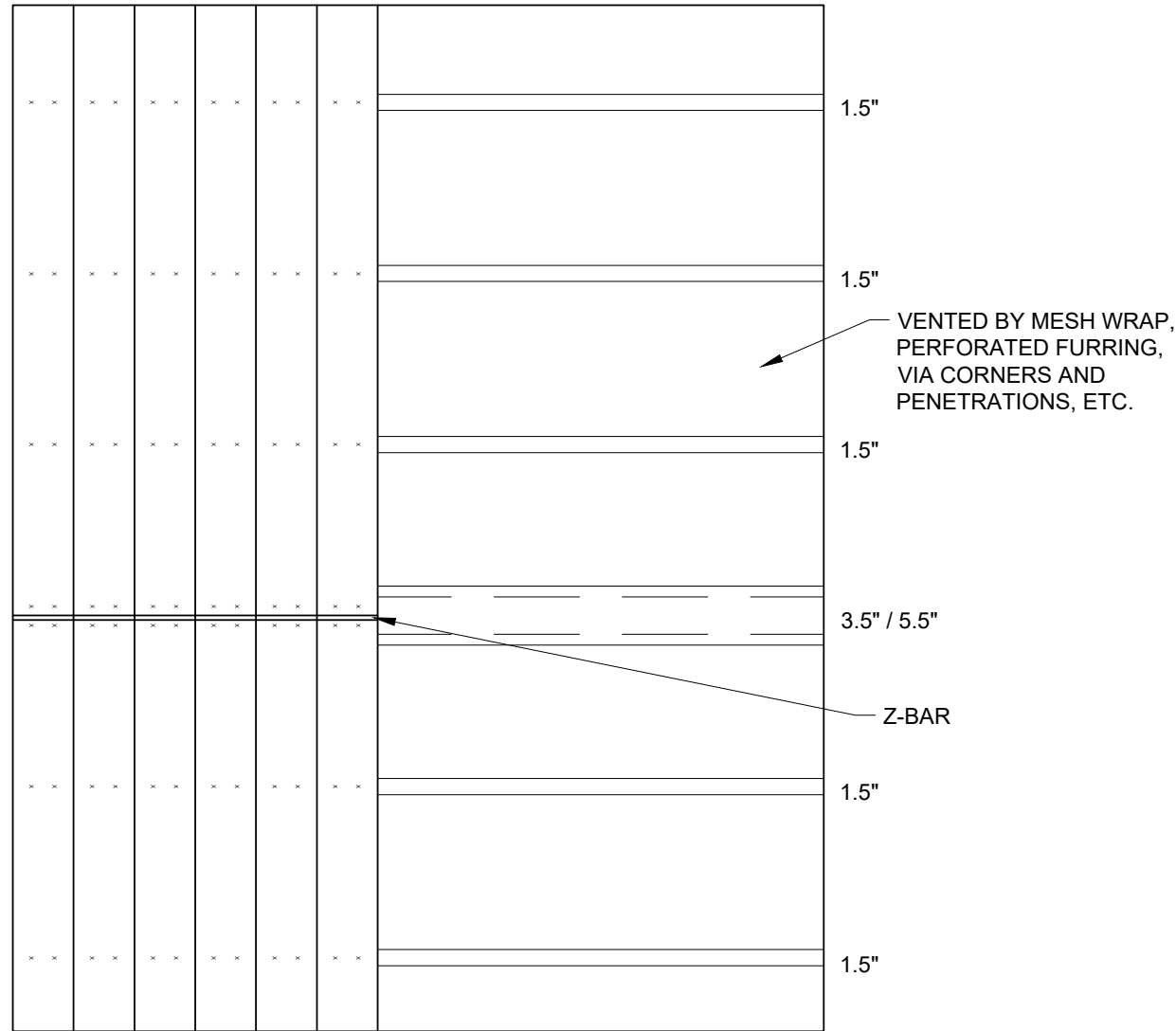
1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
2. FURRING AND HEADED FACE NAILS REQUIRED FOR ALL EXTERIOR INSTALLATIONS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS.
4. THESE DETAILS ARE NOT FOR CONSTRUCTION. NAKAMOTO FORESTRY TAKES NO RESPONSIBILITY FOR THE DESIGN AND CONSTRUCTION OF CUSTOMER PROJECTS. THESE DRAWINGS ARE FOR EXAMPLE REFERENCE ONLY.

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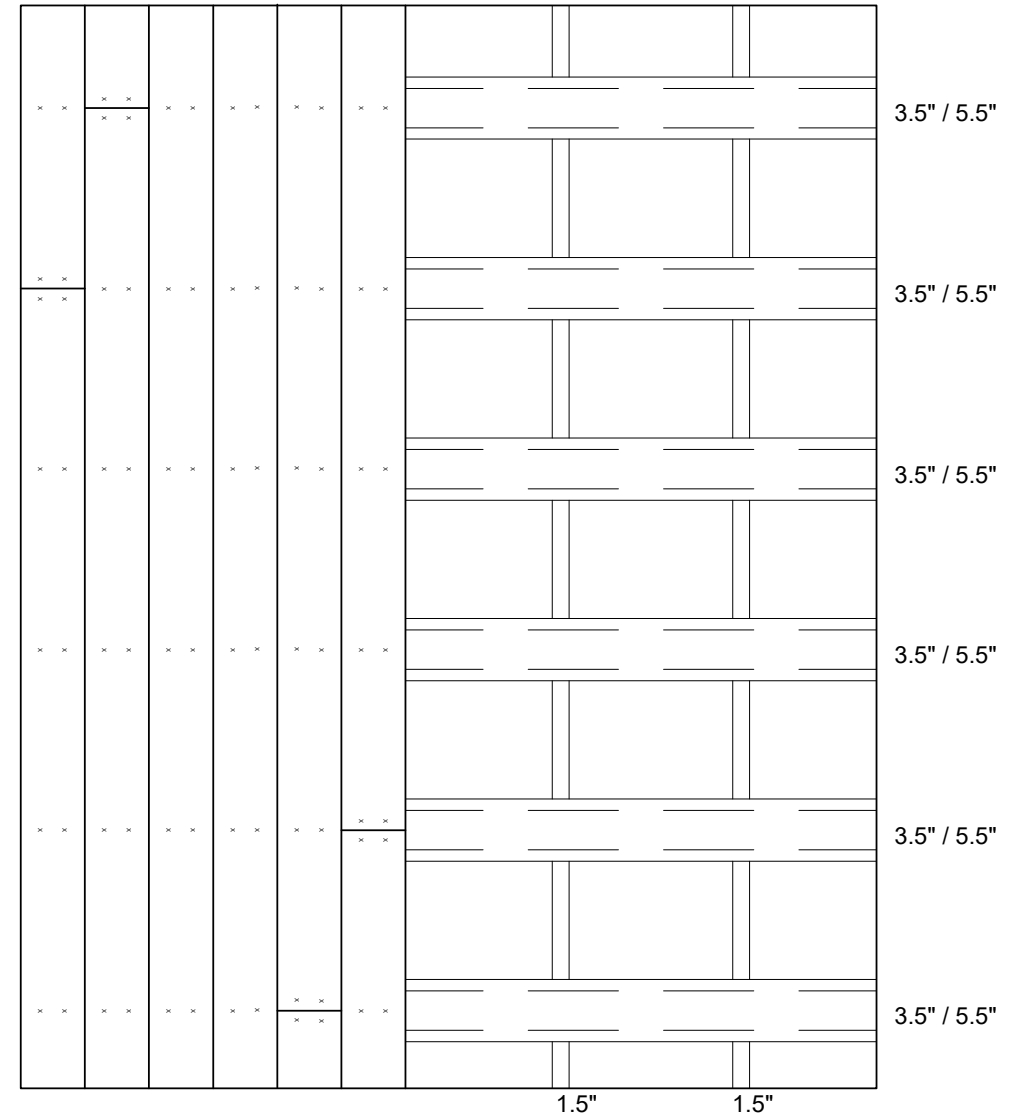


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Project Title: RAIN SCREEN FURRING LAYOUT SUGGESTIONS			Project No. 000-000
			Drawn By: PLM, SMH
			Date: 11/20/2019
No.	Revision Date	Description	Drawing No.
#5	10/25/2021	Beleck Rev.	N1.06



VERTICAL FURRING
 3.5" MINIMUM FURRING WIDTH FOR BUTTS IF PRE-DRILLED (SHOWN DASHED)
 5.5" MINIMUM FURRING WIDTH FOR BUTTS IF NOT PRE-DRILLED
 1.5" MINIMUM FURRING WIDTH FOR INTERMEDIATE STRIPPING
 PLEASE USE Z-BAR AT BOND LINES



GRID FURRING (REQUIRED BY SOME MUNICIPALITIES)
 3.5" MINIMUM FURRING WIDTH FOR BUTTS IF PRE-DRILLED (SHOWN DASHED)
 5.5" MINIMUM FURRING WIDTH FOR BUTTS IF NOT PRE-DRILLED

A SIDING & PANELING LAYOUT SUGGESTIONS

B SIDING & PANELING LAYOUT SUGGESTIONS

GENERAL NOTES:

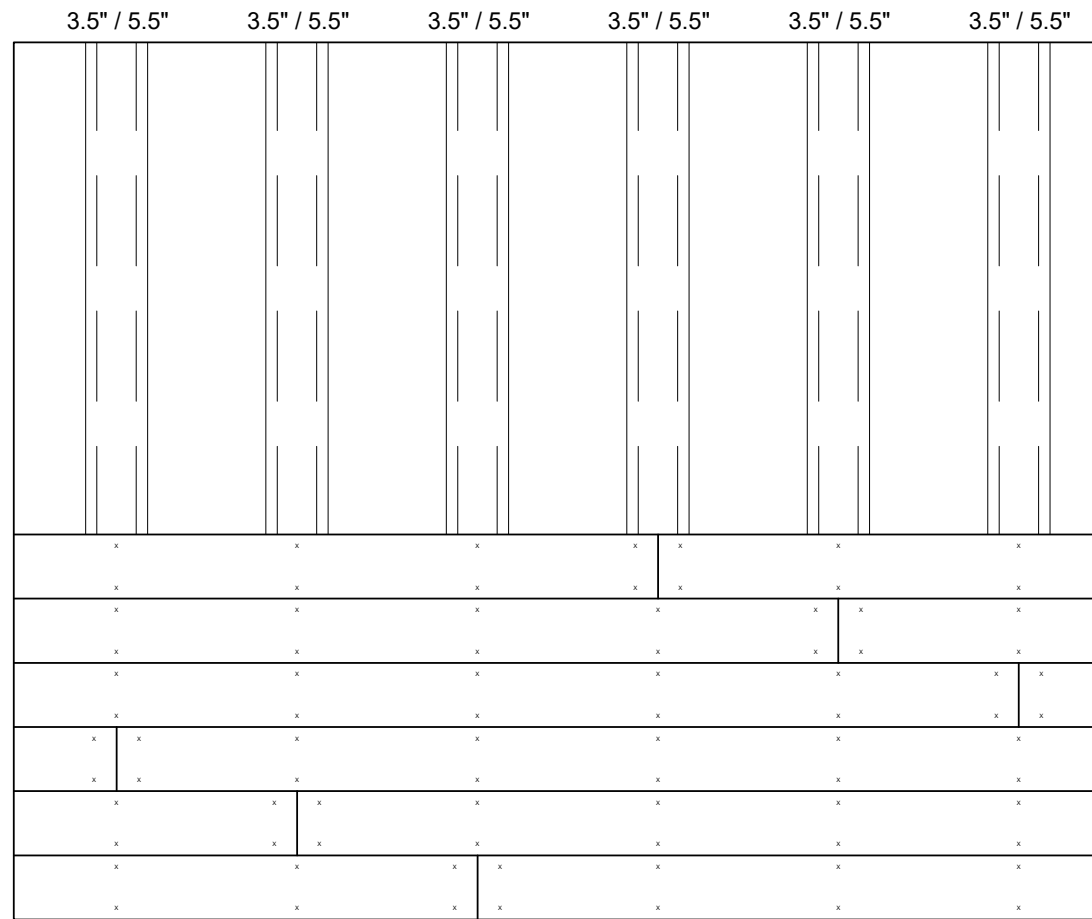
1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
2. FURRING AND HEADED FACE NAILS REQUIRED FOR ALL EXTERIOR INSTALLATIONS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS.
4. THESE DETAILS ARE NOT FOR CONSTRUCTION. NAKAMOTO FORESTRY TAKES NO RESPONSIBILITY FOR THE DESIGN AND CONSTRUCTION OF CUSTOMER PROJECTS. THESE DRAWINGS ARE FOR EXAMPLE REFERENCE ONLY.

NOT FOR CONSTRUCTION

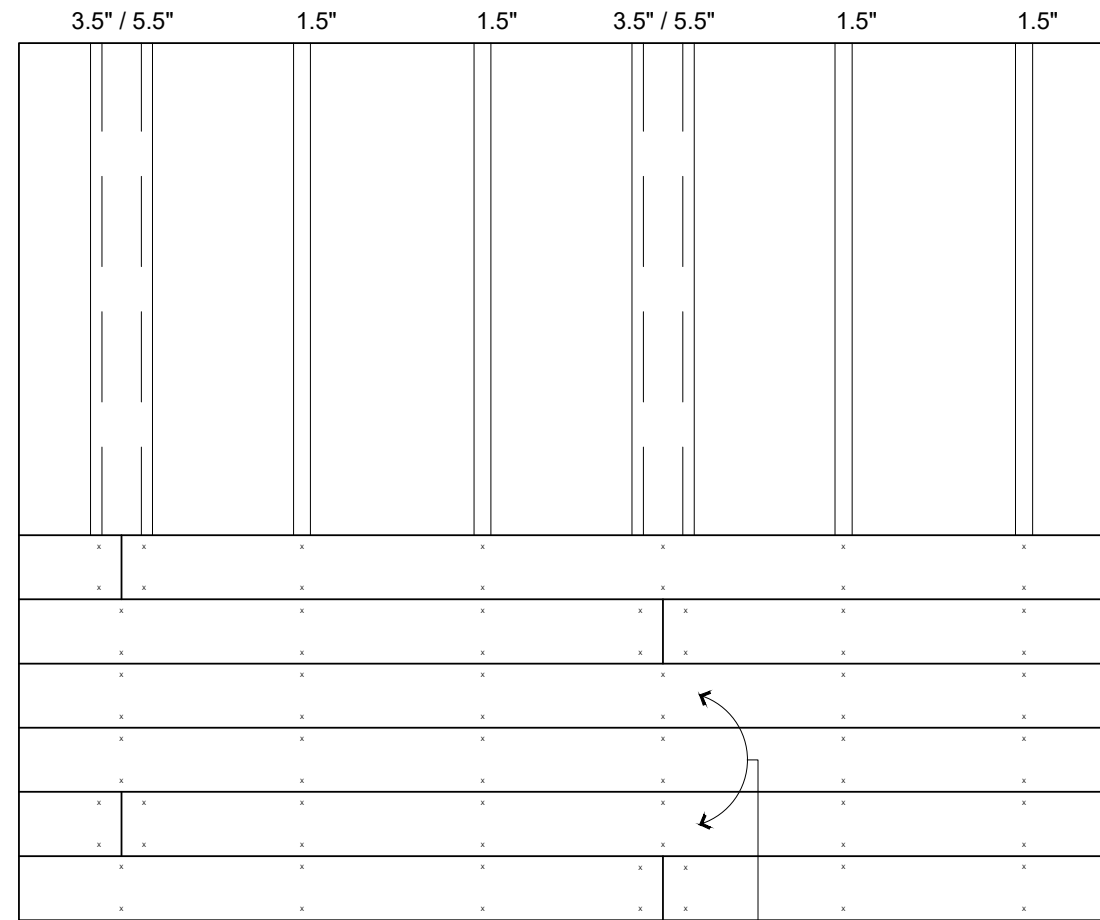


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Project Title: RAIN SCREEN FURRING LAYOUT SUGGESTIONS			Project No. 000-000
No. Revision Date Description			Drawn By: PLM, SMH
#5 10/25/2021 Beleck Rev.			Date: 11/20/2019
			Drawing No. N1.07



VERTICAL FURRING WITH STAGGERED BUTTS
 3.5" MINIMUM FURRING WIDTH FOR BUTTS IF
 PRE-DRILLED (SHOWN DASHED)
 5.5" MINIMUM FURRING WIDTH FOR BUTTS IF
 NOT PRE-DRILLED



VERTICAL FURRING
 3.5" MINIMUM FURRING WIDTH FOR
 BUTTS IF PRE-DRILLED (SHOWN DASHED)
 5.5" MINIMUM FURRING WIDTH FOR
 BUTTS IF NOT PRE-DRILLED
 1.5" MINIMUM FURRING WIDTH FOR
 INTERMEDIATE STRIPPING

MINIMUM 2 UNBROKEN ROWS
 BETWEEN BUTTS FOR BEST
 APPEARANCE

A SIDING & PANELING LAYOUT SUGGESTIONS

B RAIN SCREEN FURRING LAYOUT SUGGESTIONS

GENERAL NOTES:

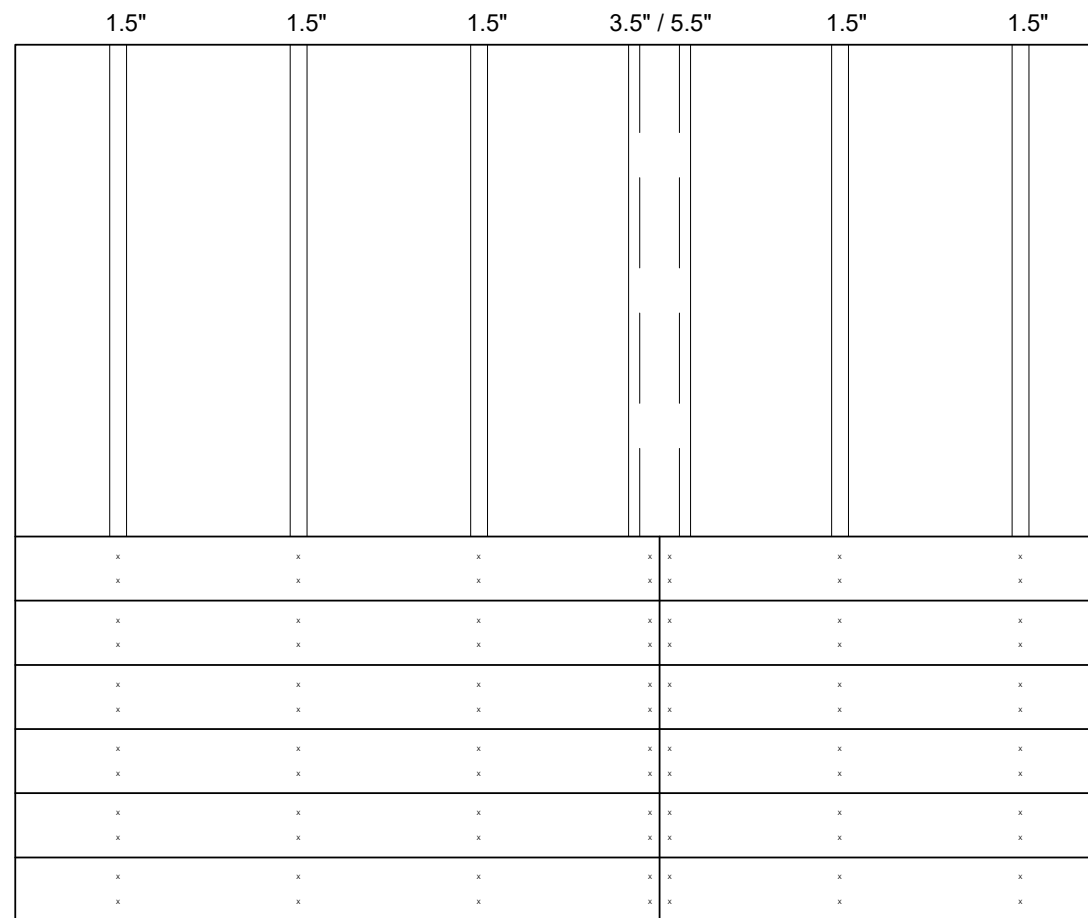
1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
2. FURRING AND HEADED FACE NAILS REQUIRED FOR ALL EXTERIOR INSTALLATIONS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS.
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NOT FOR CONSTRUCTION



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Project Title:		Project No.
RAIN SCREEN FURRING LAYOUT SUGGESTIONS		000-000
No.		Revision Date
#6	10/25/2021	Beleck Rev.
Description		Drawing No.
		N1.08
Date:		11/20/2019
Drawn By:		PLM, SMH



VERTICAL FURRING
 3.5" MINIMUM FURRING WIDTH FOR
 BUTTS IF PRE-DRILLED (SHOWN DASHED)
 5.5" MINIMUM FURRING WIDTH FOR
 BUTTS IF NOT PRE-DRILLED
 1.5" MINIMUM FURRING WIDTH FOR
 INTERMEDIATE STRIPPING
 STRAIGHT BOND LINE

A SIDING & PANELING LAYOUT SUGGESTIONS

GENERAL NOTES:

1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
2. FURRING AND HEADED FACE NAILS REQUIRED FOR ALL EXTERIOR INSTALLATIONS.
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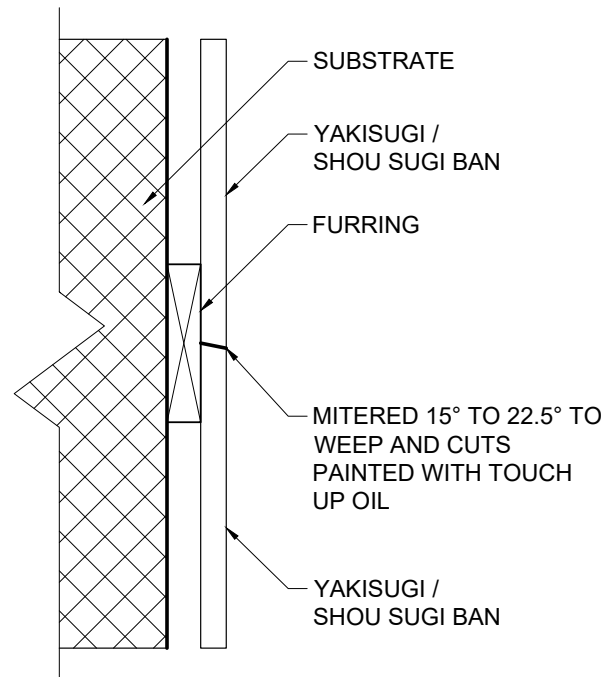
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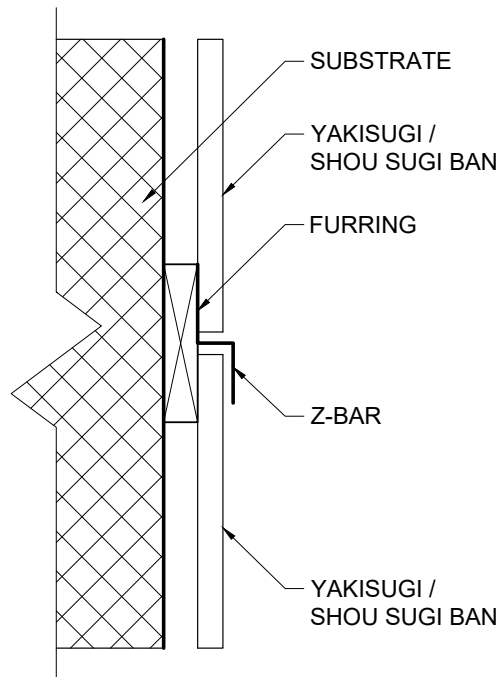
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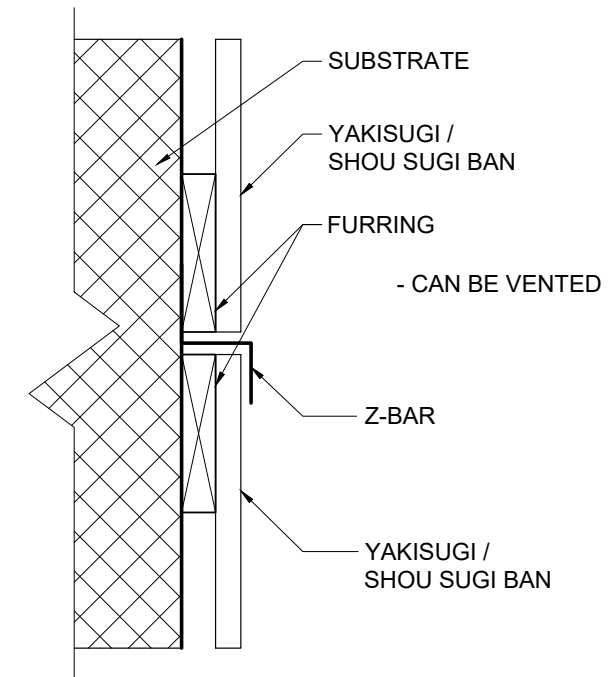
Project Title: RAIN SCREEN FURRING LAYOUT SUGGESTIONS			Project No. 000-000
			Drawn By: PLM, SMH
			Date: 11/20/2019
No.	Revision Date	Description	Drawing No.
#3	10/25/2021	Beleck Rev. #6	N1.09



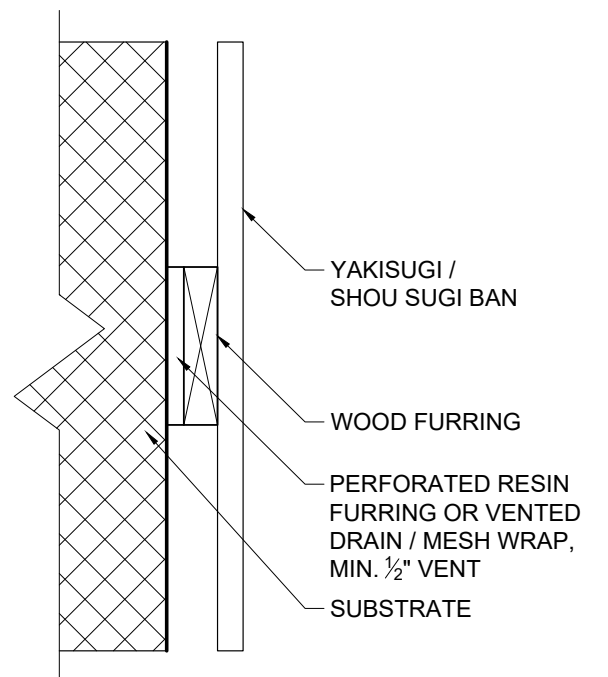
A VERTICAL LAYOUT SCARF JOINT



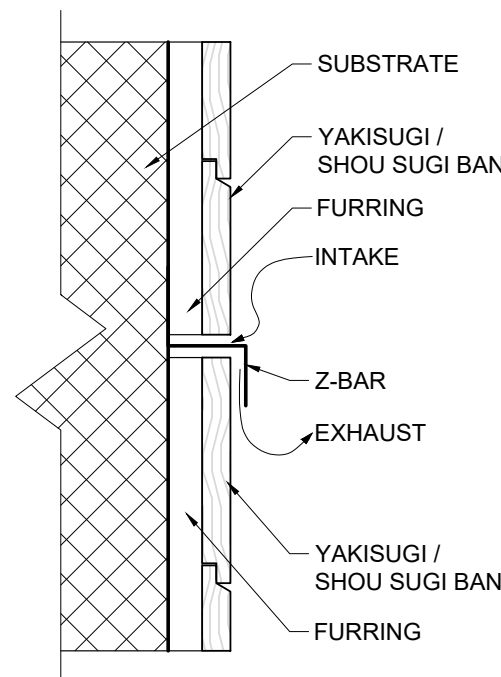
B VERTICAL LAYOUT BUTT JOINT



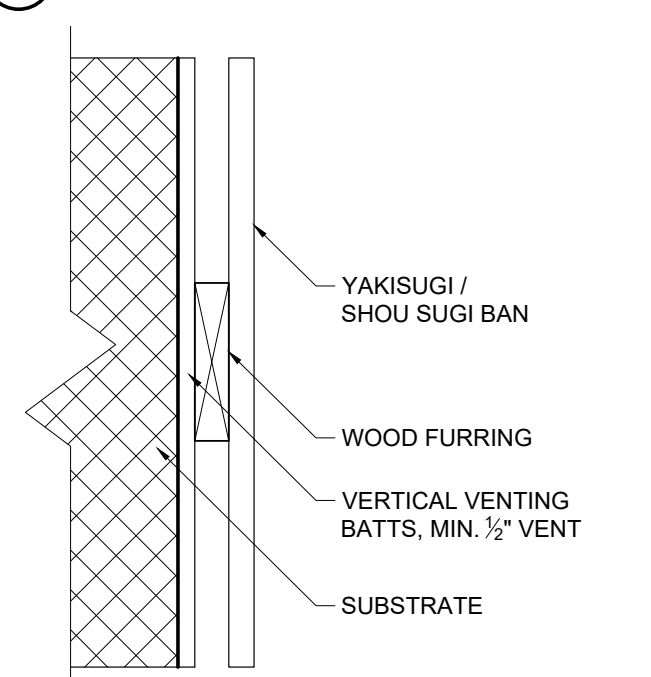
C VERTICAL LAYOUT BUTT JOINT



D VERTICAL LAYOUT VENTING



E HORIZONTAL LAYOUT BOND LINE VENTING



F VERTICAL LAYOUT GRID VENTING

GENERAL NOTES:

1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
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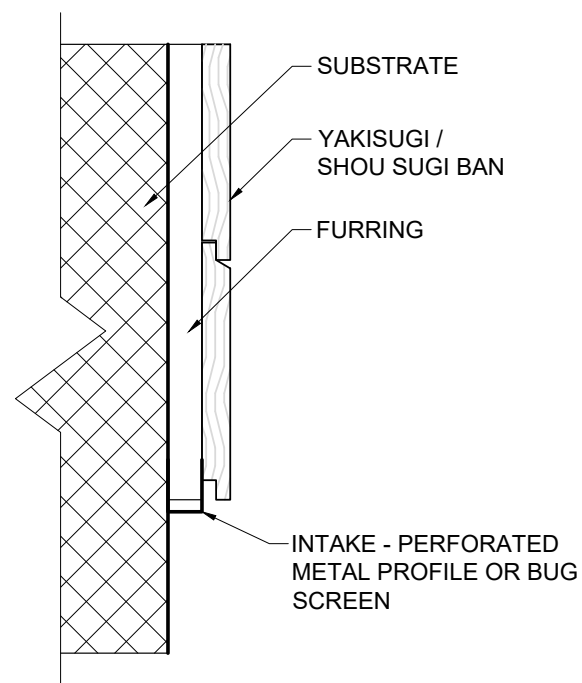
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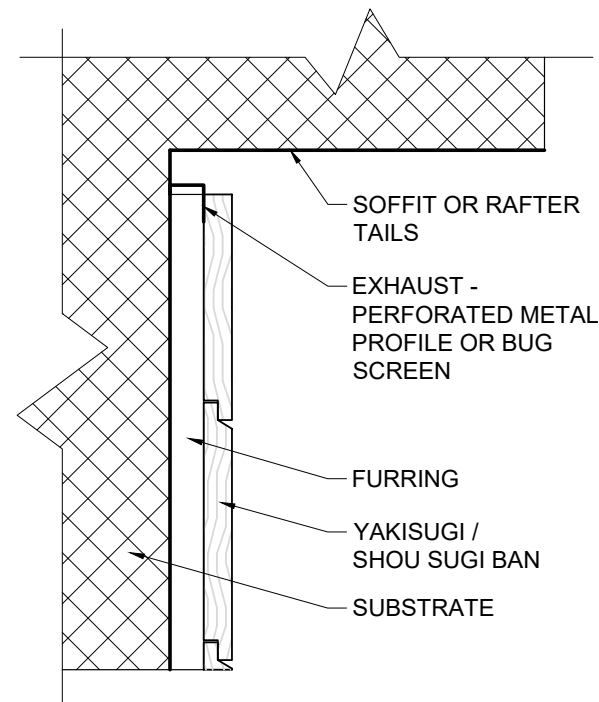
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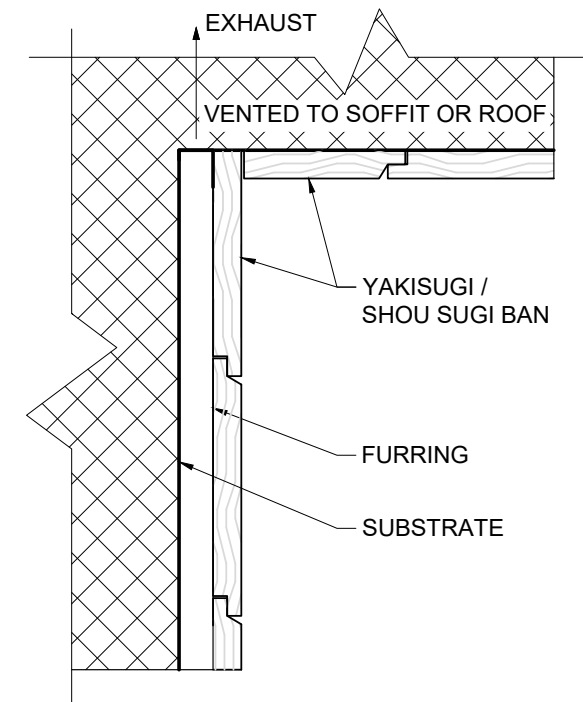
Project Title:		Project No. 000-000	
EXTERIOR SCREEN WALL DETAIL		Drawn By: PLM, SMH	
		Date: 01/09/2020	
No.	Revision Date	Description	Drawing No.
#12	09/15/2021	Beleck Rev.	N1.10



A HORIZONTAL INSTALL DRIP INTAKE



B VENTING AT SOFFIT OR RAFTER



C VENTING AT SOFFIT

GENERAL NOTES:

1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
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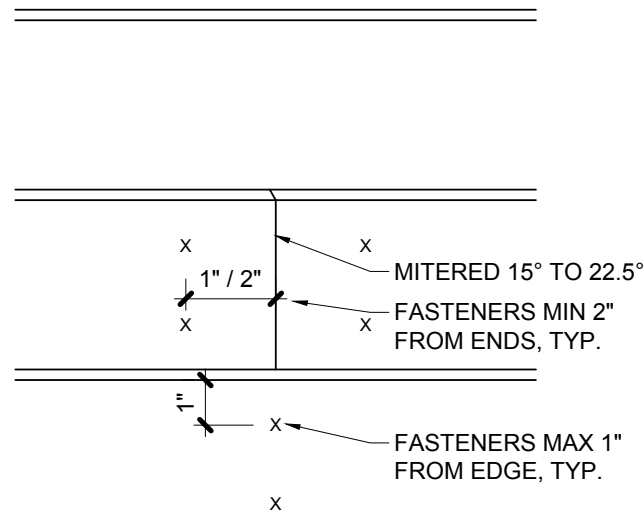
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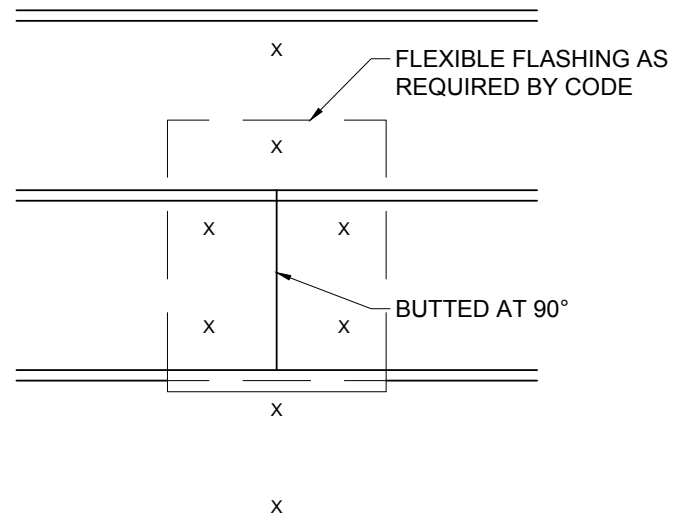
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Project Title:		Project No.
EXTERIOR SCREEN WALL DETAIL		000-000
No.		Revision Date
#12	09/15/2021	Beleck Rev.
Drawing No.		N1.11



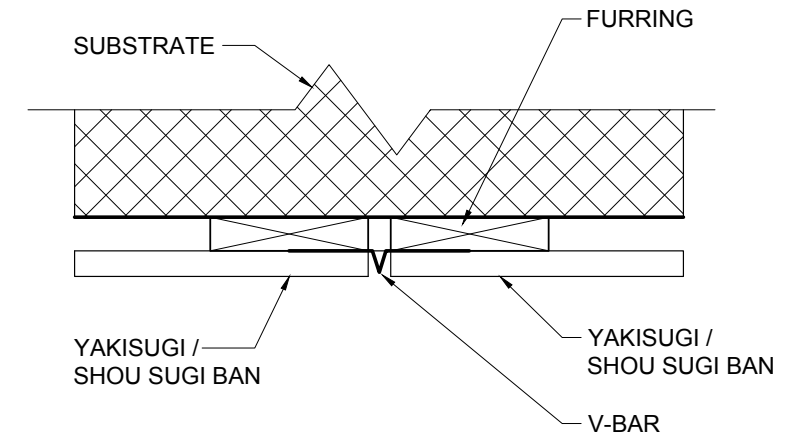
STAGGERED BOND LINES
 FASTENERS MINIMUM 1" FROM END IF PRE-DRILLED
 FASTENERS MINIMUM 2" FROM END IF NOT PRE-DRILLED

A HORIZONTAL LAYOUT SCARF JOINT



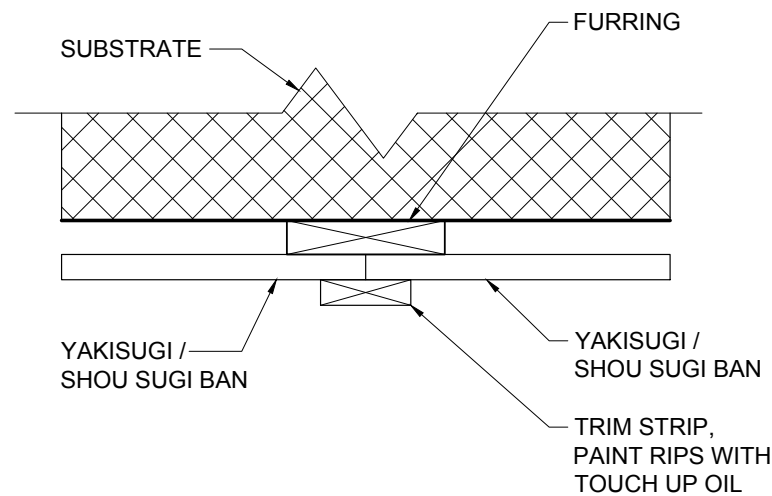
STAGGERED BOND LINES

B HORIZONTAL LAYOUT BUTT JOINT



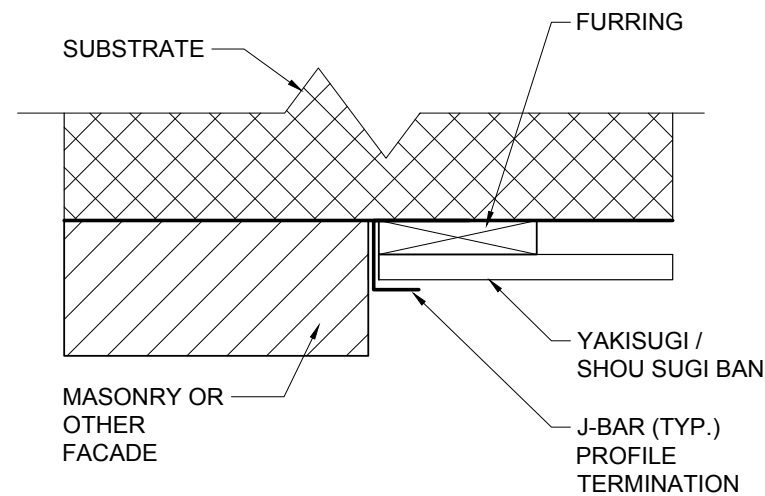
CONSISTENT BOND LINES

C PLAN VIEW - HORIZONTAL LAYOUT



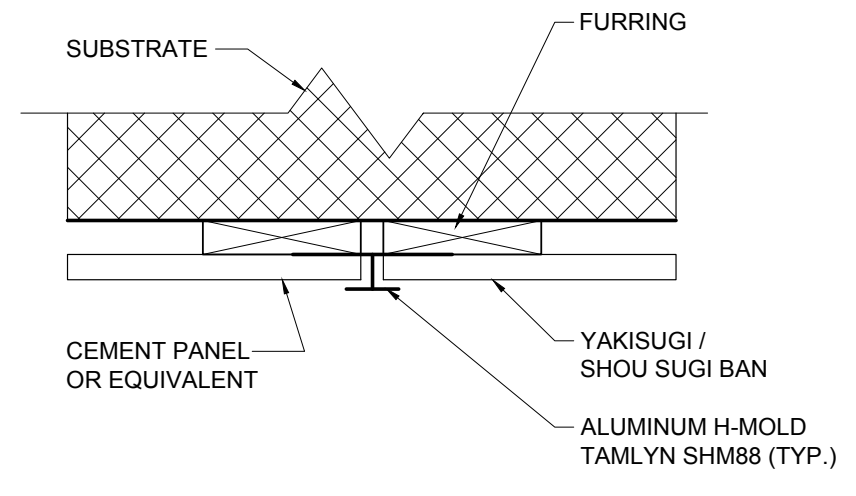
CONSISTENT BOND LINES

D PLAN VIEW - HORIZONTAL LAYOUT



CONSISTENT BOND LINES

E PLAN VIEW - HORIZONTAL LAYOUT



CONSISTENT BOND LINES

F PLAN VIEW - HORIZONTAL LAYOUT

GENERAL NOTES:

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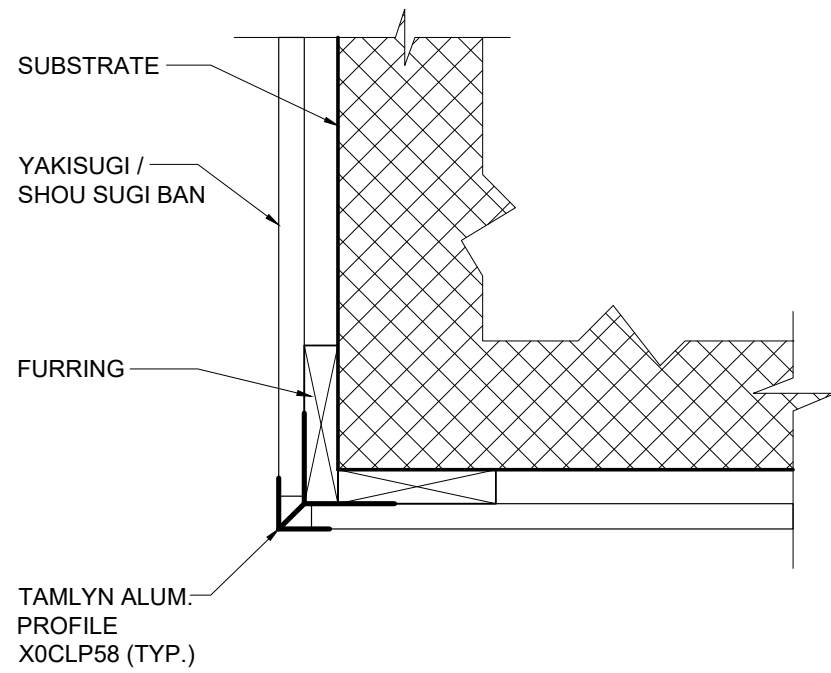
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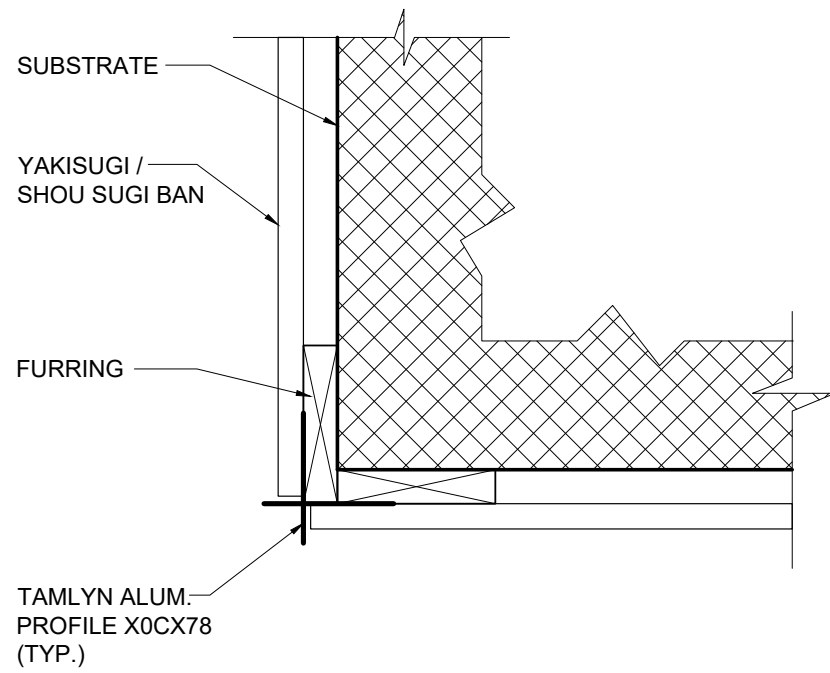
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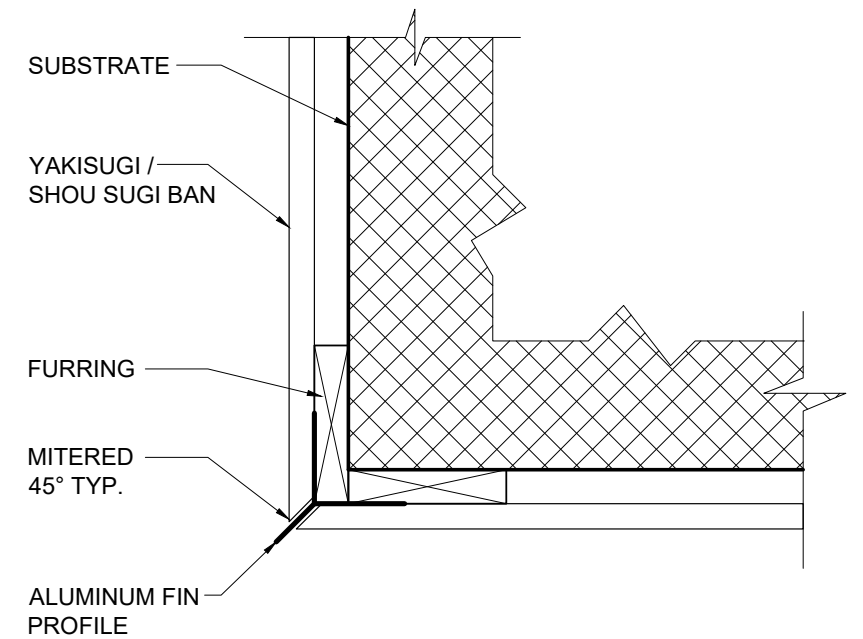
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		Drawn By: PLM, SMH
		Date: 01/09/2020
No.	Revision Date	Description
#12	10/25/2021	Beleck Rev.
		Drawing No. N1.12



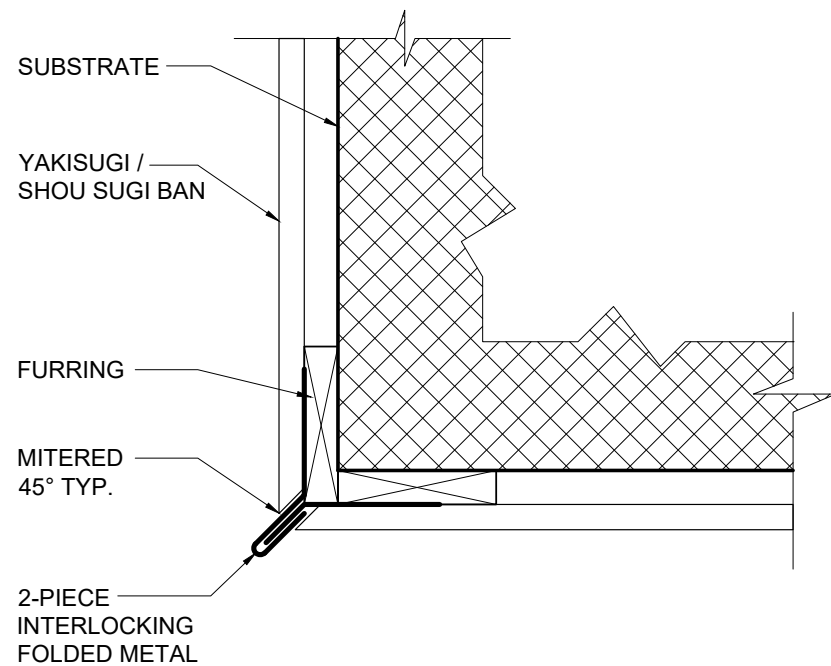
A PLAN VIEW - OUTSIDE CORNER - METAL



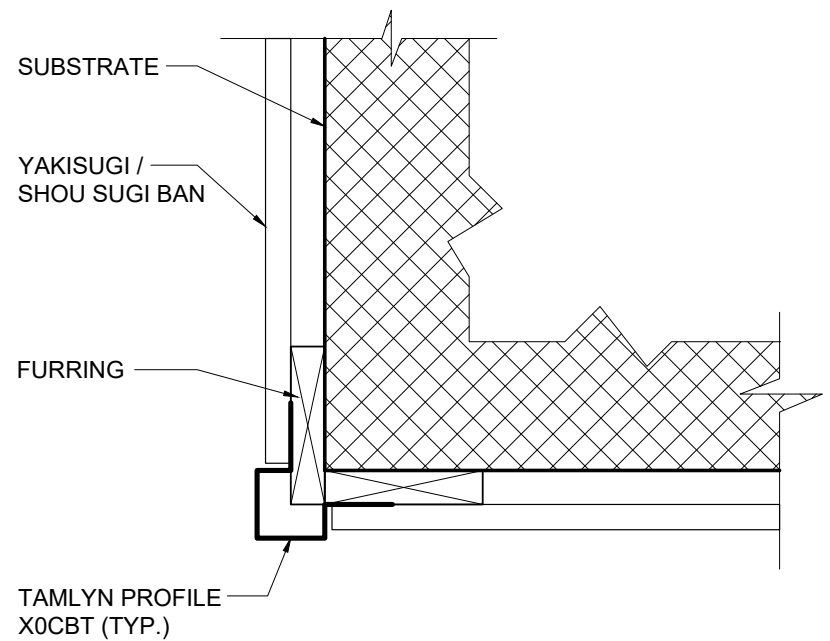
B PLAN VIEW - OUTSIDE CORNER - METAL



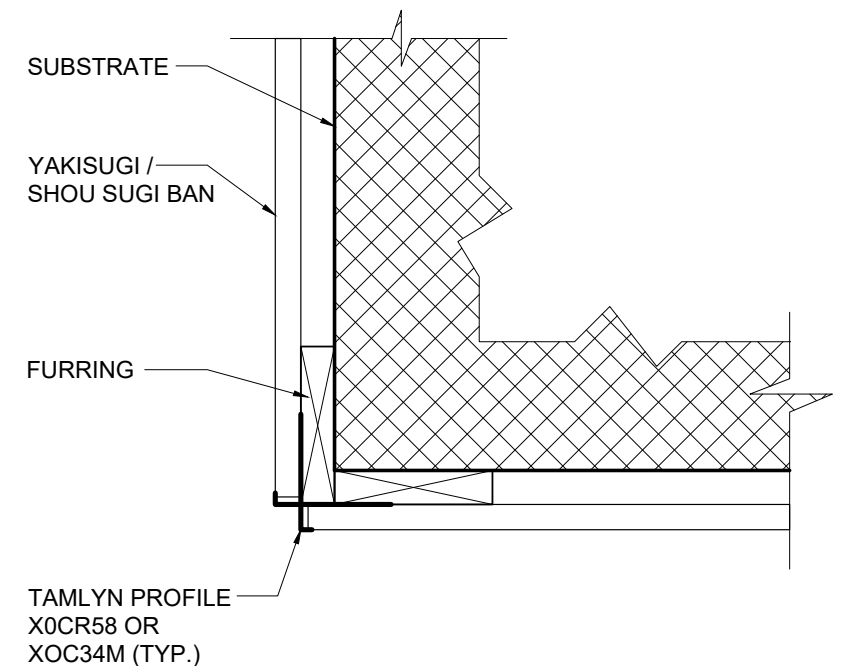
C PLAN VIEW - OUTSIDE CORNER - METAL



D PLAN VIEW - OUTSIDE CORNER - METAL



E PLAN VIEW - OUTSIDE CORNER - METAL



F PLAN VIEW - OUTSIDE CORNER - METAL

GENERAL NOTES:

1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
2. FURRING AND HEADED FACE NAILS REQUIRED FOR ALL EXTERIOR INSTALLATIONS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS.
4. THESE DETAILS ARE NOT FOR CONSTRUCTION. NAKAMOTO FORESTRY TAKES NO RESPONSIBILITY FOR THE DESIGN AND CONSTRUCTION OF CUSTOMER PROJECTS. THESE DRAWINGS ARE FOR EXAMPLE REFERENCE ONLY.

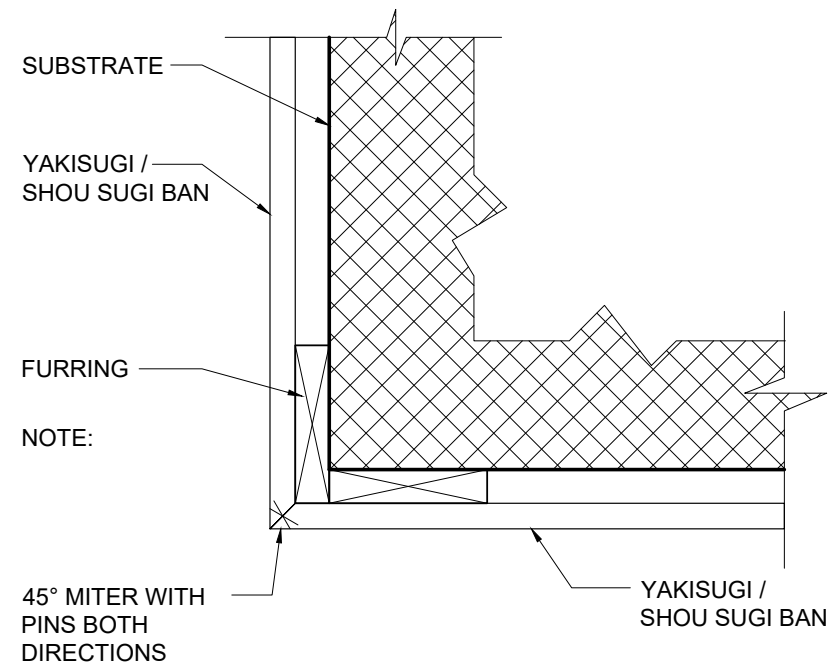
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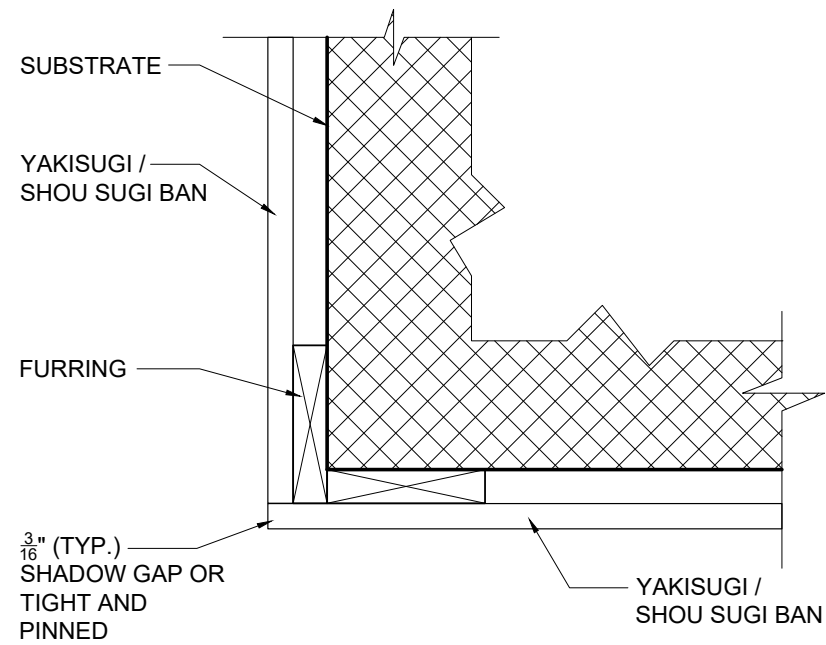
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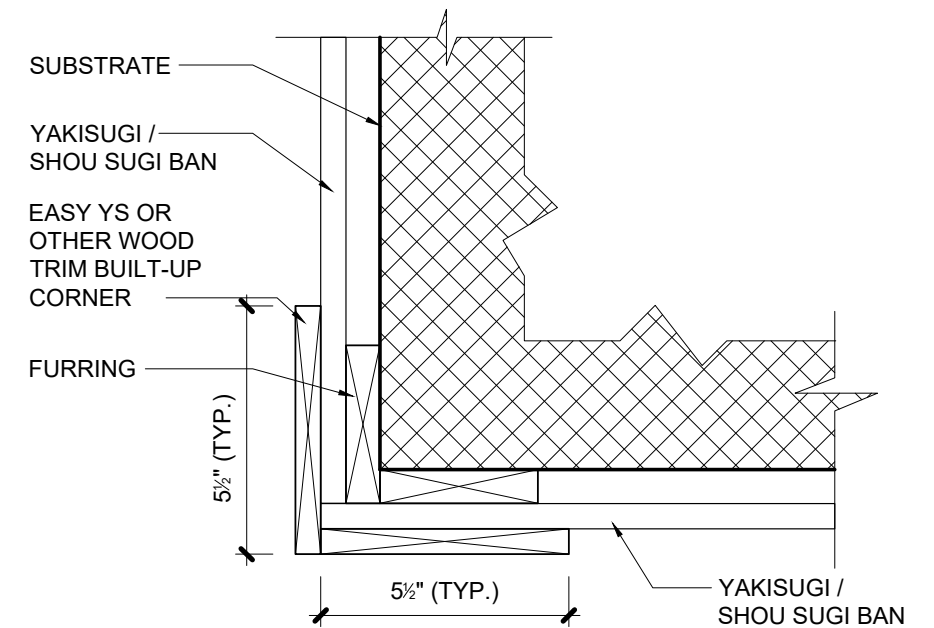
Project Title:		Project No.
EXTERIOR OUTSIDE CORNER ALUMINUM & METAL OPTIONS		000-000
No.		Revision Date
#3	03/18/2021	Beleck Rev.
Description		Project No.
		000-000
Drawing No.		Date:
N1.13		11/20/2019



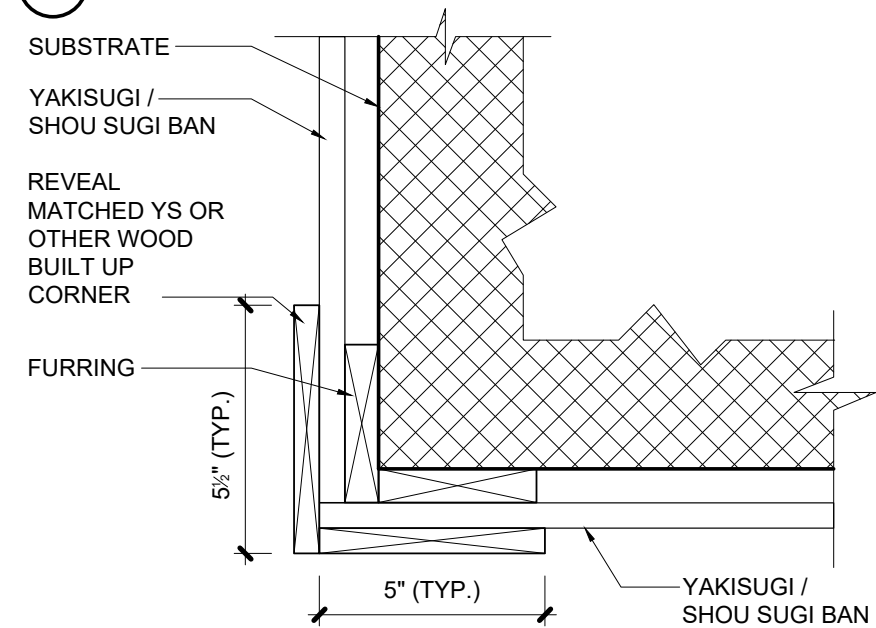
A PLAN VIEW - OUTSIDE CORNER - WOOD



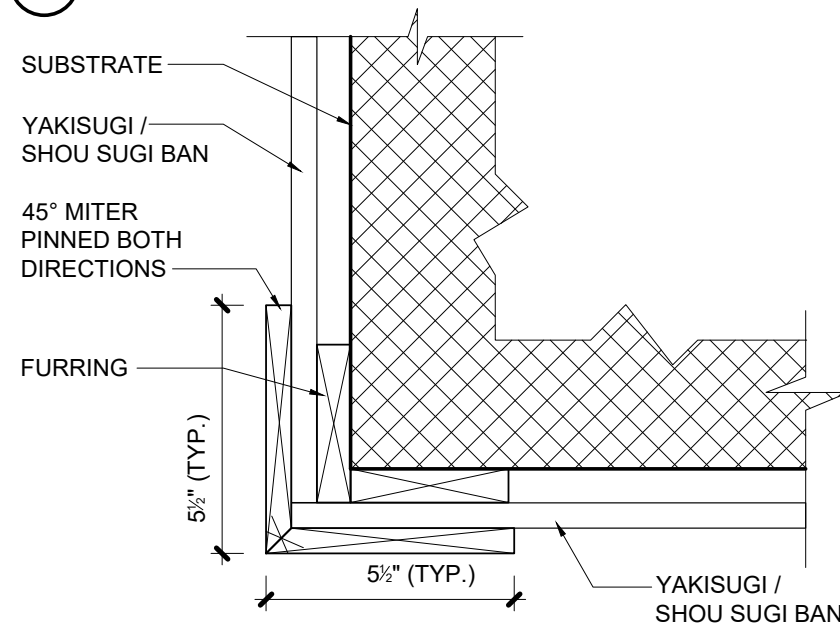
B PLAN VIEW - OUTSIDE CORNER - WOOD



C PLAN VIEW - OUTSIDE CORNER - WOOD



D PLAN VIEW - OUTSIDE CORNER - WOOD



E PLAN VIEW - OUTSIDE CORNER - WOOD

GENERAL NOTES:

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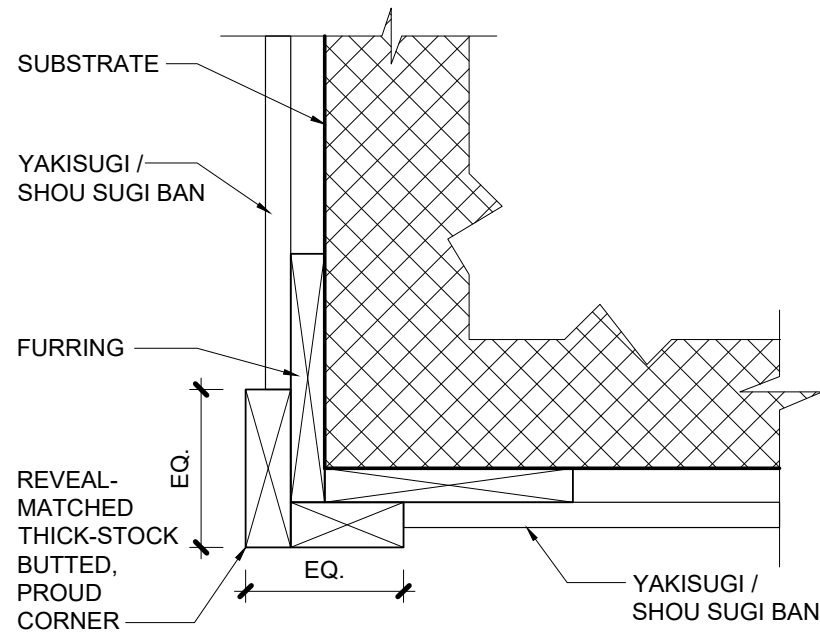
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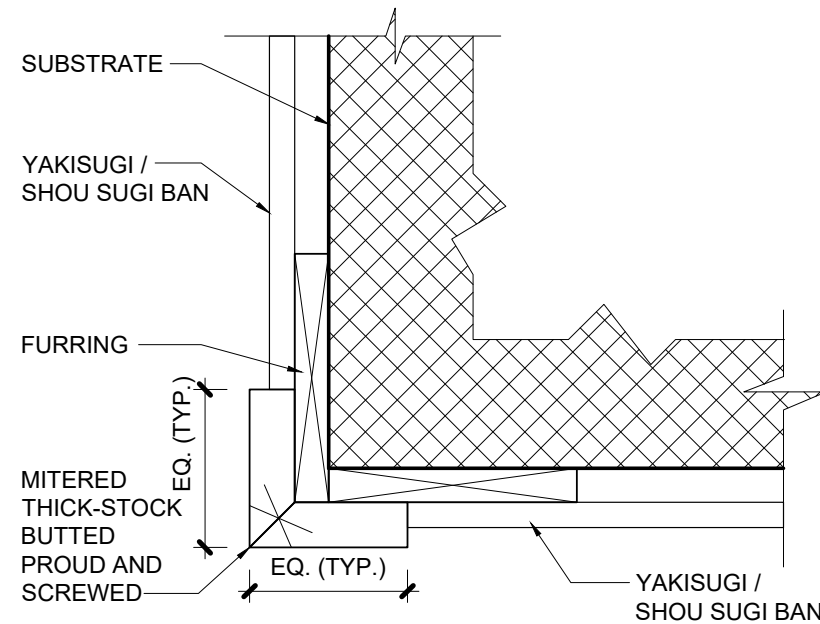
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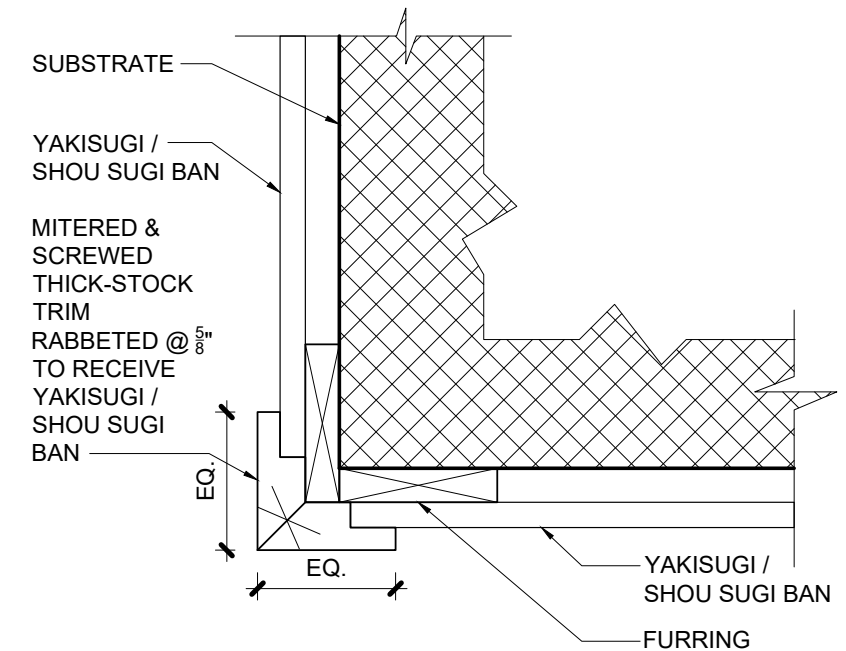
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EXTERIOR OUTSIDE CORNER WOOD OPTIONS - 1 OF 2 SHEETS		000-000
No.		Revision Date
#4	05/20/2021	Beleck Rev.
Drawing No.		
		N1.14



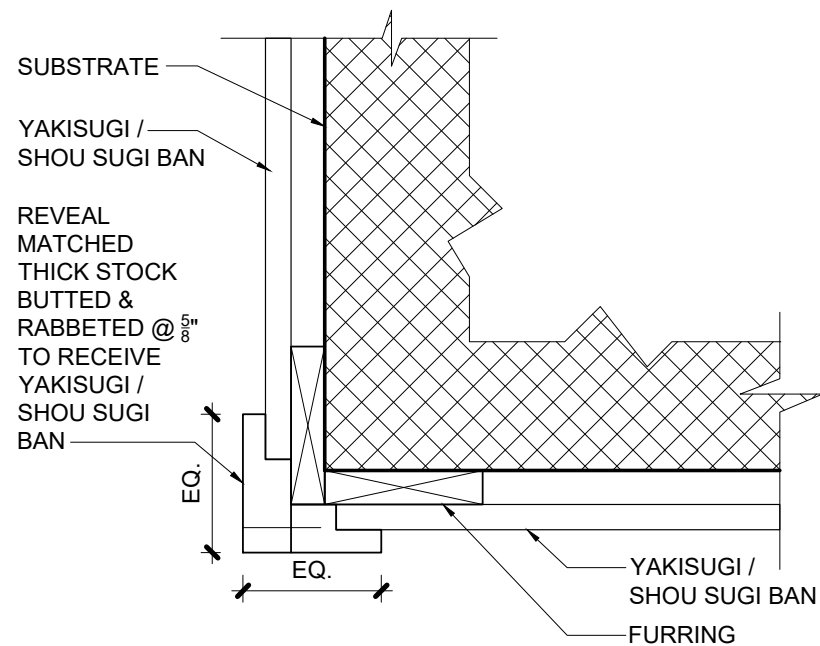
(A) PLAN VIEW - OUTSIDE CORNER - WOOD



(B) PLAN VIEW - OUTSIDE CORNER - WOOD



(C) PLAN VIEW - OUTSIDE CORNER - WOOD



(D) PLAN VIEW - OUTSIDE CORNER - WOOD

GENERAL NOTES:

1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
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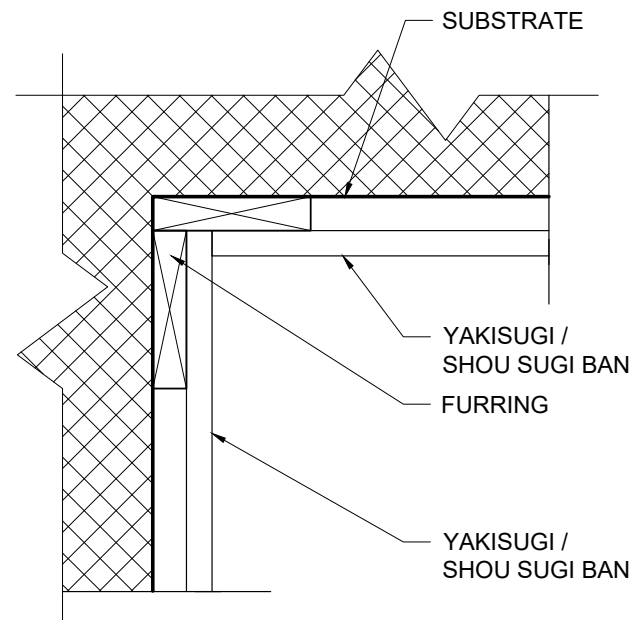
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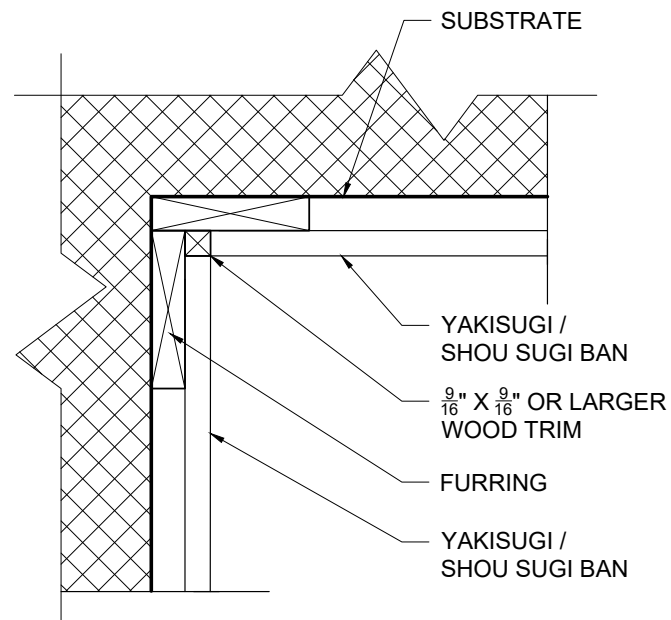
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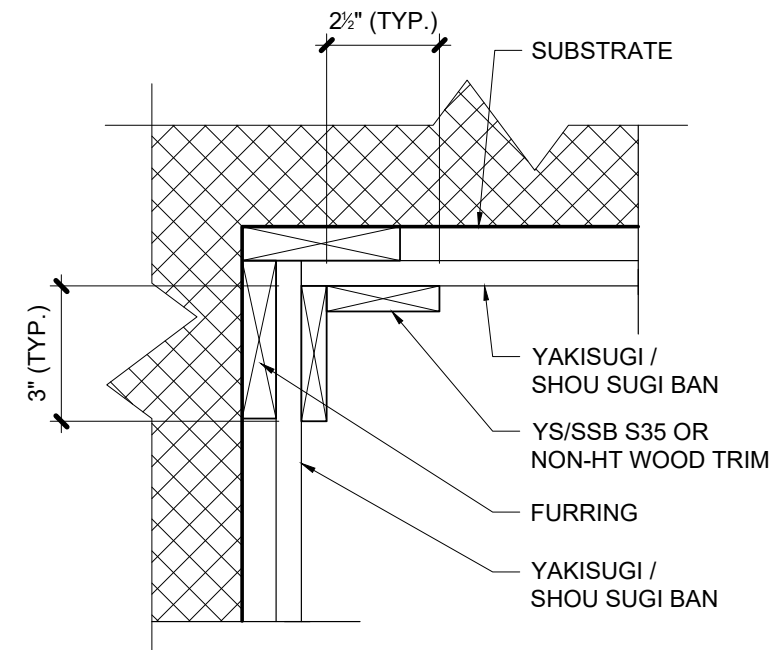
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EXTERIOR OUTSIDE CORNER WOOD OPTIONS, 2 OF 2 SHEETS		000-000
No.		Revision Date
#3	03/18/2021	Beleck Rev.
Drawing No.		N1.15



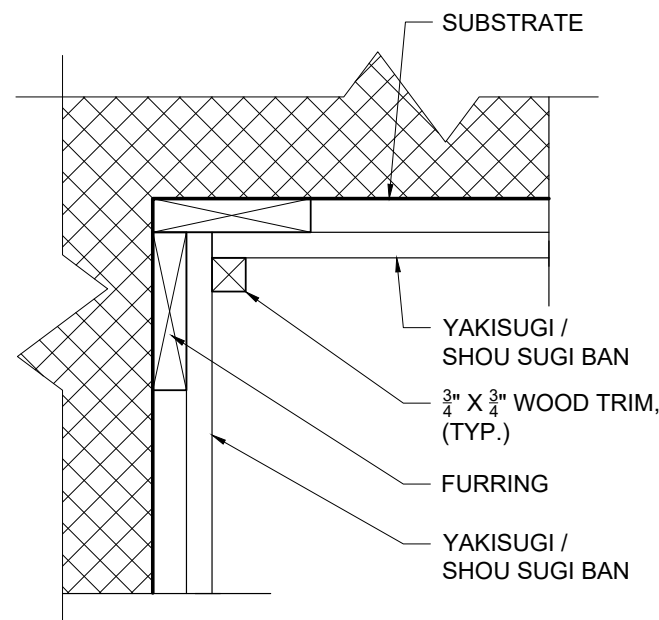
A PLAN VIEW INSIDE CORNER WOOD OPTIONS



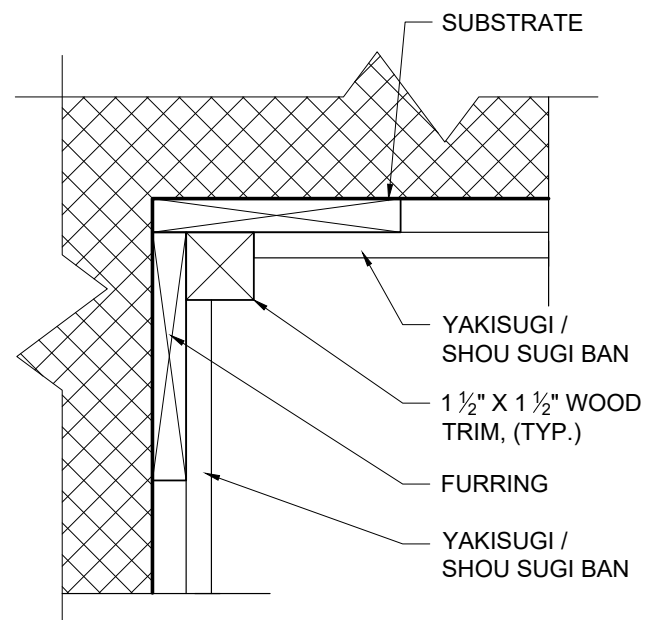
B PLAN VIEW INSIDE CORNER WOOD OPTIONS



C PLAN VIEW INSIDE CORNER WOOD OPTIONS



D PLAN VIEW INSIDE CORNER WOOD OPTIONS



E PLAN VIEW INSIDE CORNER WOOD OPTIONS

GENERAL NOTES:

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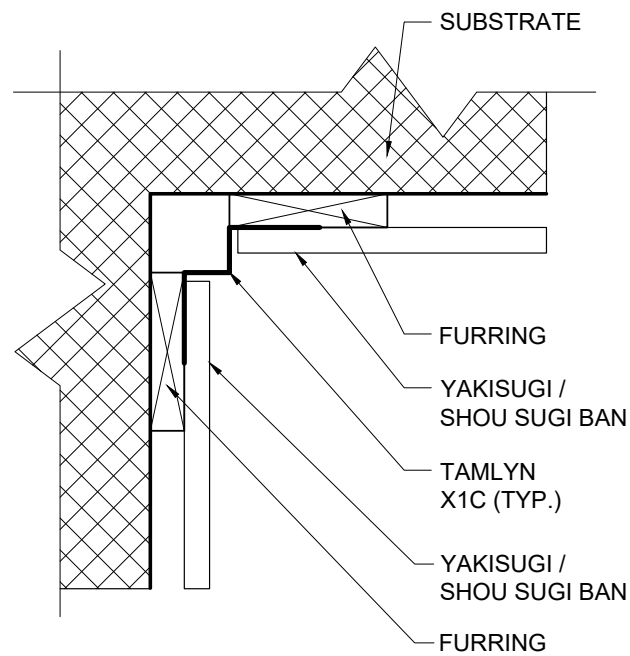
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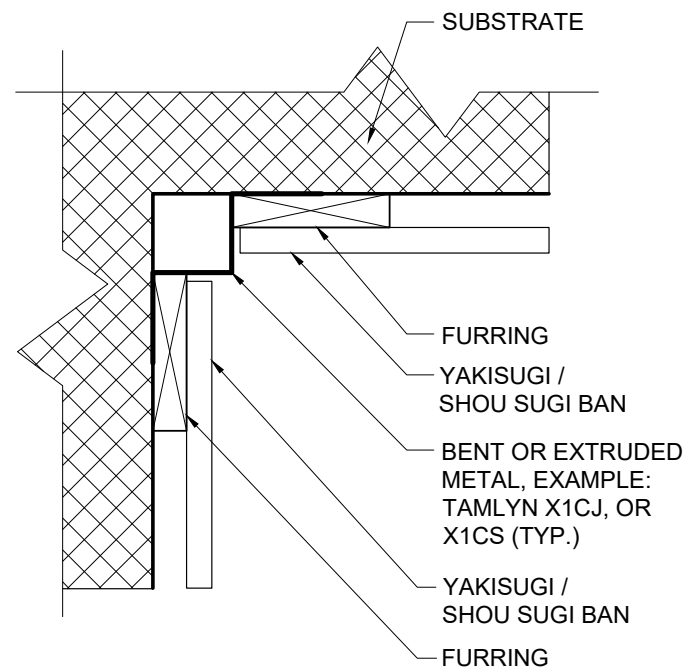
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Project Title:			Project No.
EXTERIOR INSIDE CORNER WOOD OPTIONS			000-000
No.			Drawn By:
#4	Revision Date	Description	PLM, SMH
03/18/2021	Beleck Rev.		Date: 11/20/2019
Drawing No.			
			N1.16



A PLAN VIEW ALUMINUM & METAL OPTIONS



B PLAN VIEW ALUMINUM & METAL OPTIONS

GENERAL NOTES:

1. RECOMMENDED PANEL DETAIL EXAMPLES MUST BE ADAPTED FOR VERTICAL AND OTHER INSTALL LAYOUTS.
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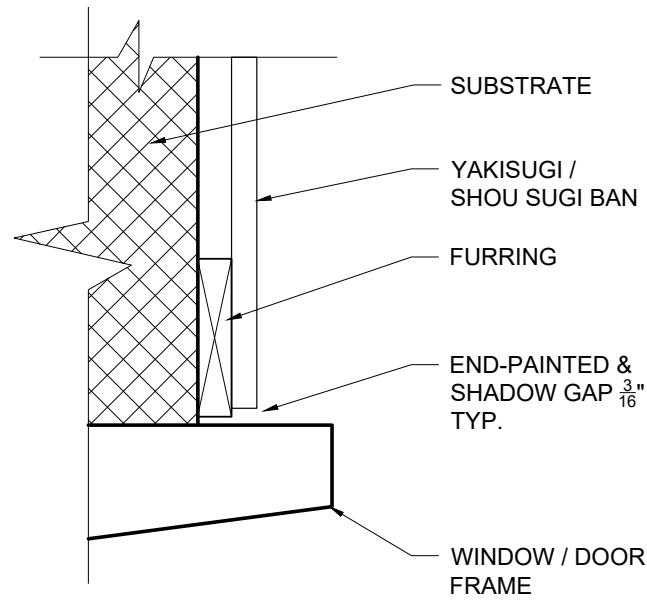
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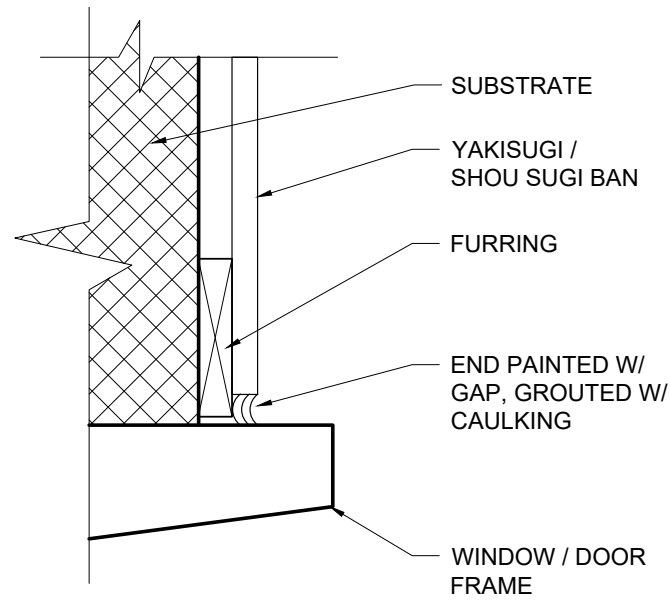
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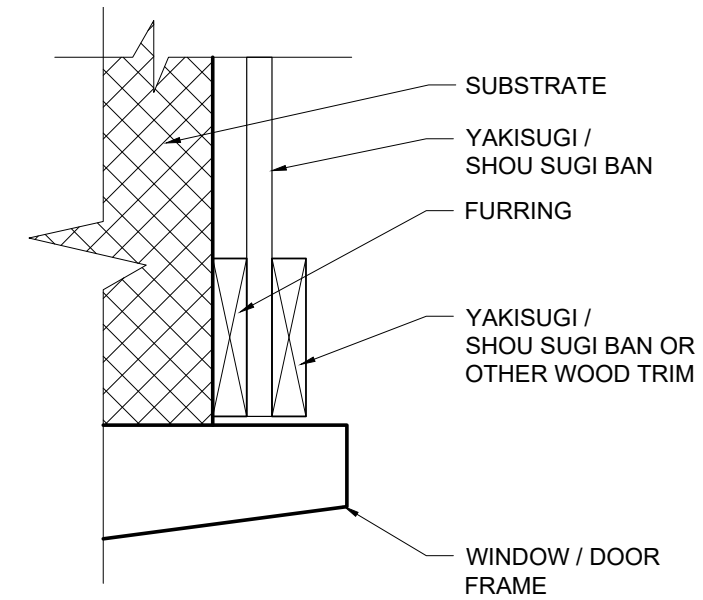
Project Title:		Project No. 000-000	
EXTERIOR INSIDE CORNER ALUMINUM & METAL OPTIONS		Drawn By: PLM, SMH	
		Date: 11/20/2019	
No.	Revision Date	Description	Drawing No.
#5	05/19/2021	Beleck Rev.	N1.17



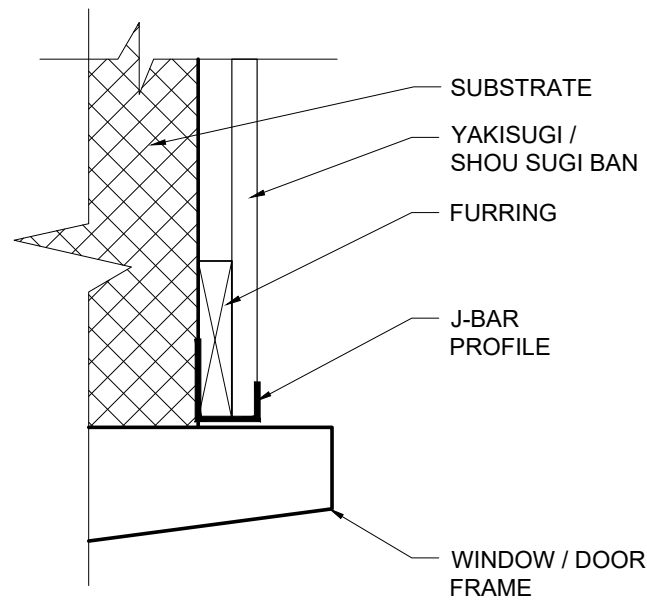
A PLAN VIEW - DOOR & WINDOW PENETRATION



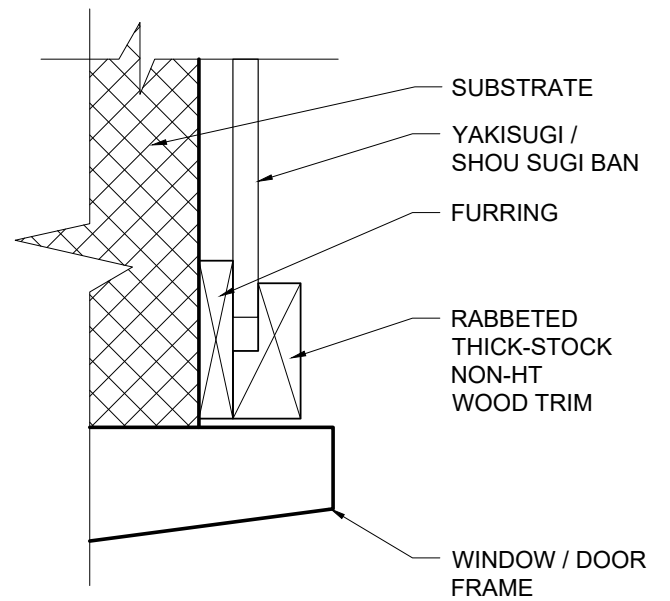
B PLAN VIEW - DOOR & WINDOW PENETRATION



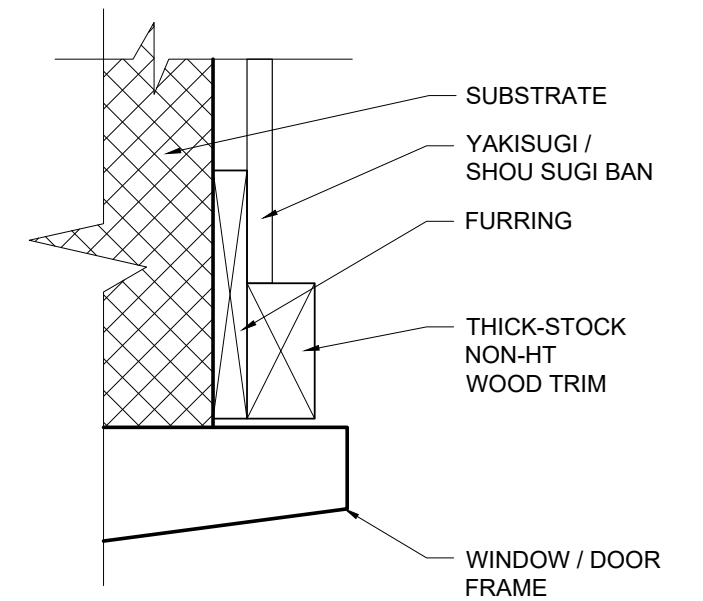
C PLAN VIEW - DOOR & WINDOW PENETRATION



D PLAN VIEW - DOOR & WINDOW PENETRATION



E PLAN VIEW - DOOR & WINDOW PENETRATION



F PLAN VIEW - DOOR & WINDOW PENETRATION

GENERAL NOTES:

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Project Title: DOOR & WINDOW PENETRATION SUGGESTIONS			Project No. 000-000
No. Revision Date Description			Drawn By: PLM, SMH
#4 05/19/2021 Beleck Rev.			Date: 11/20/2019
			Drawing No. N1.18

