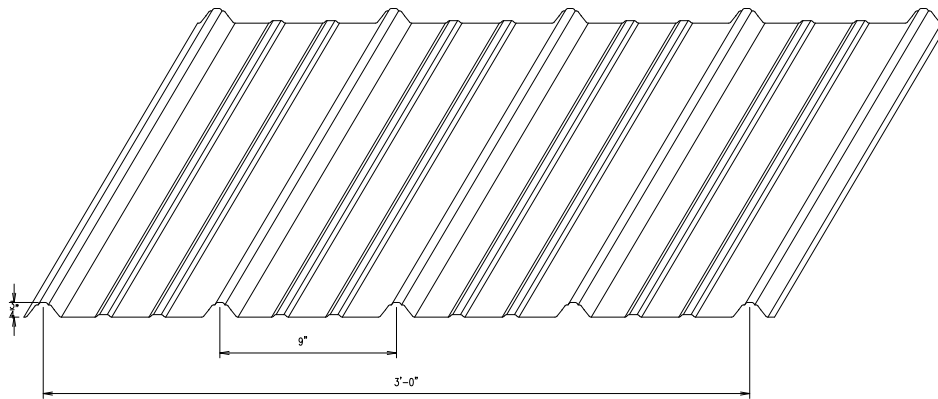


Western States AG Panel

Installation, Flashings & Shop Drawing Detail *Guide*

Table of Contents



Section	Page	Section	Page
Notes to Designer / Installers.....	1	Hip and Ridge	19
Fastener Placement and Selection.....	2-3	Valley	20
Key Roof Plan	4	Pitch Break High to Low	21
Key Flashing / Trims	5-6-7	Pitch Break Low to High	22
Eave Detail	8	Chimney	23-24-25-26
Mini Eave Detail	9	Pipe Flashing	27
Eave Pre Hung Gutter	10	Wall Detail	28
Eave Post Hung Gutter	11	Wall Detail Isometric.....	29
Gutter Splice	12	Wall Base Flashing.....	30
Gable Flashing	13	Outside Corner	31
Mini Gable Flashing	14	Inside Corner	32
Universal Gable Flashing.....	15	Notes.....	33
Peak/ High Eave	16	Custom Trim Form	34
Sidewall	17	Special Design Considerations.....	35
Endwall	18		

Western States "AG" Panel

Installation, Flashings & Shop Drawing Detail Guide

Notes to Designer and Installers

The details contained in this guide are proven industry details and are intended to be used as a design aid and installation guide. It does not depict all situations that may be encountered on all projects. Modifications are the responsibility of the designer/ owner/ installer. Consideration should be given for Fit for Purpose, Building use, Climate conditions such as temperature, snow, wind, and moisture, Governing Building Codes, and Maintenance. It is highly recommended that all trims and flashings be of the same material as the panels (metal, gauge, finish) to ensure long term performance and durability. Where possible, flashing edges should be hemmed to strengthen the edge and protect the cut edge from exposure.

Framing and Substrates

"AG" panels are used over all type of substrates like Steel Decking, open purlins, spaced sheathing, and wood decking such as plywood. Most details in this guide are shown with panels attached to Purlins.

Note on underlayment

Not all conditions require an underlayment, However metal roofing is susceptible to Condensation and it is recommended that an appropriate Roofing underlayment be use on all wood substrates to protect the structure during installation. For added protection from rain and snow, it is recommended to use rubberized Ice and water shield on eaves, valleys, and areas of roof penetrations. WSMR Recommends Sharkskin SA Ultra.

Slope Requirements

It is recommended that "AG" panels have a minimum slope requirement of 3:12 on all structures.

Valley and Snow Design

Valley design and dimension must be the proper width to accommodate high snow, rain, ice, and slope conditions. If possible, splices, penetrations, valleys, roof elevation changes, should be minimized in areas of high snow and ice accumulations.

Oil Canning

Oil canning is a condition common with flat metal surfaces. This waviness is caused by steel mill tolerances, forming, variations in the structures surfaces, and hardness of the steel. Measures are taken at the roll forming process, like profile design, steel gauge, corrective leveling, to minimize the effects of oil canning. Oil Canning is a Characteristic of steel and can not be eliminated totally and therefore is not reason for rejection of the panels.

Job Site Storage

While waiting to be installed on the job site, Storage of panels, trim crates, and flat sheet should be sloped in order to allow for proper moisture run off. One end should be elevated so as not to allow ponding of water on the metal surface. When using tarps for protection, proper ventilation should be provided to prevent condensation. Moisture or condensation that is trapped inside a bundle can lead to white rust on sheeting.

References

For other installation techniques and details, The Sheet Metal and Air Conditioning Contractors National Association Inc. (SMACNA) and NRCA manuals are great resources for working with sheet metal.

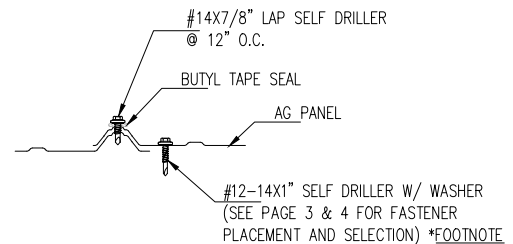
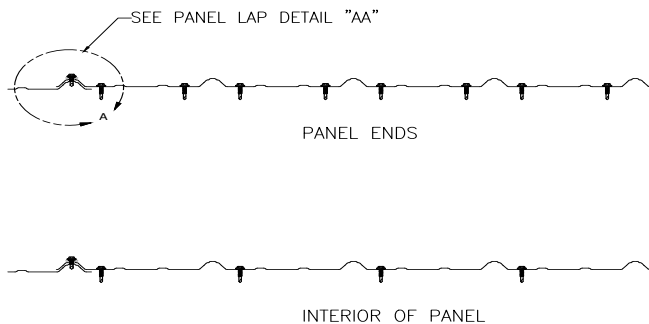
Technical Assistance

Contact your WSDI sales or technical representative for any additional information or assistance.

Western States Metal Roofing "AG" Panel

Installation, Flashings & Shop Drawing Detail Guide

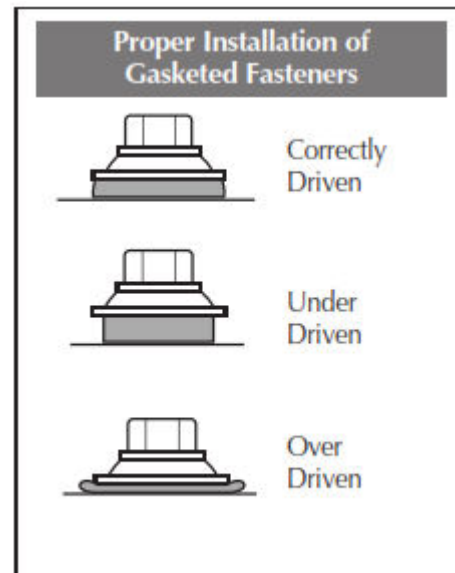
Fastener Placement and Selection



DETAIL "AA"

Notes to Installers:

- Fastener Selection will vary depending on type and thickness of substrate.
- Space panel lap screws 12" minimum -24" O.C. maximum. Consult with design engineer.
- Spacing of fastener rows to be engineered by others.
- Lap panels away from prevailing winds whenever possible.
- The use of Butyl tape mastic is always recommended on the panel lap when used for roof panels.
- Panels and flashings should never be installed in contact with dissimilar metals.
- Use only those flashings and accessories designed for use with this panel.
- Panel attachment screws must be long enough to fully penetrate through roof deck substrate or penetrate solid lumber at least one inch.
- Exposed Fasteners should have sealing washers and be coated to provide protection against corrosion.
- Screws must be properly driven to ensure holding strength and proper seal. (see diagram)
- Recommended drill speed is 2000rpm. Improper setting of drill speed can lead to snapping of screw heads.
- Pre drilling of screw holes may be necessary with heavy gauge metals.



Western States Metal Roofing "AG" Panel
Installation, Flashings & Shop Drawing Detail Guide

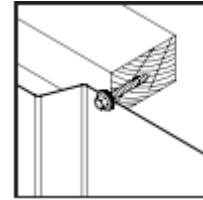
Fastener Selection

Description

Application

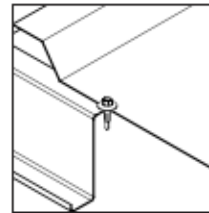
#9 x1" Wood Drillers
#9 x 1.5" Wood Drillers
#9 x2" Wood Drillers

Used to attach panels to dimensional Lumber and plywood



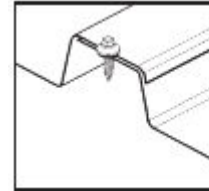
#12-14 x 1" SD
#12- 14 x1.5" SD
#12- 14 x 2" SD
#12-24 x1.25 SD

Used to attach panels to Purlins and other metal substrates



¼ x 7/8" Lap Self tap

Used to attach Trims and panel side laps.



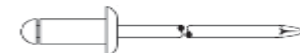
#10-12 x1" Pancake Wood
#10-12 x 1" SD Self Driller

Used to secure trims to substrates. Also available in Stainless Steel.



1/8" Stainless Rivets

Used for Trim to Trim attachment or trim to wall panels.

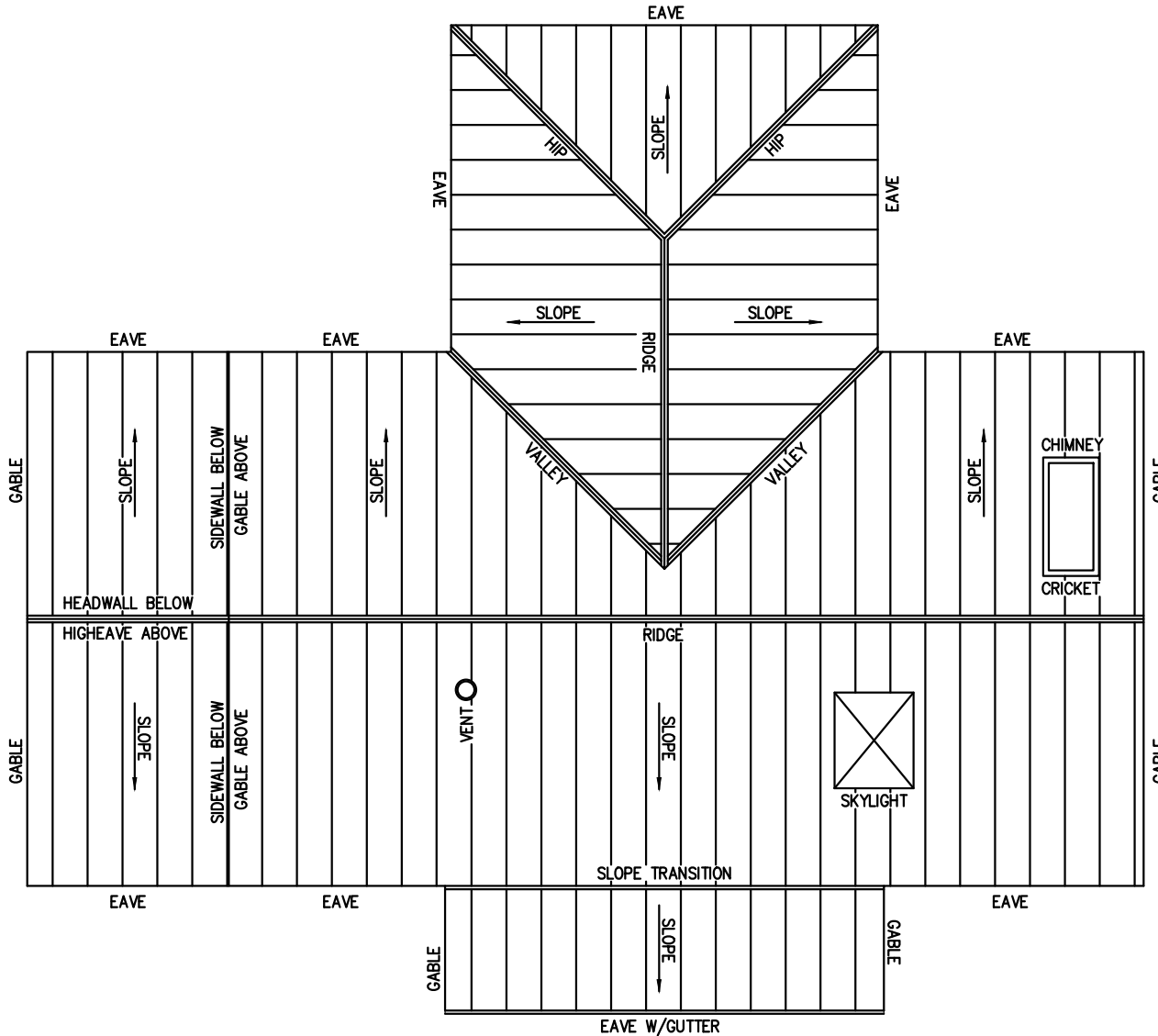


Stainless Screws
#10 x1 Wood Drillers
#10 x 1.5 Wood Drillers

Used for panel attachment for panels made with



The table above shows the panel Fasteners provided by WSD. Special order screws are available.



FLASHING TYPE

DETAIL NO.

STANDARD TRIM
STANDARD TRIM
STANDARD TRIM

WSD-ST5
WSD-ST6
WSD-ST7

EAVE
MINE EAVE
EAVE-PRE-HUNG GUTTER
EAVE-POST-HUNG GUTTER
POST-HUNG GUTTER SPLICE
GABLE FLASHING
MINI GABLE FLASHING

WSD-E1
WSD-ME1
WSD-EPRG1
WSD-EPOG2
WSD-EG3
WSD-GF2
WSD-MGF2

UNIVERSAL GABLE FLASHING
PEAK-HIGH EAVE FLASHING
SIDEWALL FLASHING
ENDWALL FLASHING

WSD-UGF2
WSD-PK3
WSD-SW4
WSD-EW5

RIDGE-HIP
VALLEY FLASHING
PITCH BREAK HIGH TO LOW
PITCH BREAK LOW TO HIGH
CHIMNEY FLASHING
CHIMNEY FLASHING
CHIMNEY CRICKET FLASHING
ISOMETRIC DETAIL
PIPE FLASHING
WALL DETAILS
ISOMETRIC WALL DETAIL
WALL DETAIL
WALL DETAIL
WALL DETAIL
NOTES
CUSTOM TRIM SHEET

WSD-RH6
WSD-V7
WSD-PB8
WSD-PB9
WSD-CF10
WSD-CF11
WSD-CF12
WSD-CF13
WSD-PF14
WSD-W15
WSD-W16
WSD-W17
WSD-W18
WSD-W19
WSD-N20
WSD-CT21



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DETAIL:

KEY ROOF PLAN

PANEL TYPE:

AG-Panel

DATE:

A 10-28-25

REV:

DETAIL #:

OUTSIDE CORNER WS-1502	JAMB TRIM WS-1503	EAVE FLASHING WS-1504	RIDGE/HIP CAP WS-1505
RIDGE/HIP CAP WS-1505H	BASE TRIM WS-1506	SIDEWALL FLASHING WS-1507	HEAD TRIM WS-1508
BOX GUTTER PRE-HUNG WS-1510	GABLE FLASHING WS-1511	GUTTER STRAP WS-1512	SPLICE WS-1513 FOR BOX GUTTER



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STANDARD TRIM

PANEL TYPE:

AG-Panel

DATE:

A 10-28-25

REV:

DETAIL #:

AG-WSD-ST5

BOX GUTTER END CAP WS-1514 	BOX GUTTER POST-HUNG WS-1515 	PEAK FLASHING WS-1519 	RIDGE/HIP CAP WS-1520
RIDGE/HIP CAP WS-1520H 	OVERSIZED VALLEY WS-1523 	STANDARD VALLEY WS-1524 	EXTENDED VALLEY WS-1525
DOWNSPOUT STRAIGHT WS-1526 	DOWNSPOUT WITH KICKOUT WS-1527 	ENDWALL FLASHING WS-1528 	CUSTOM TRIM REGLET FLASHING WS-1529



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STANDARD TRIM

PANEL TYPE:

AG-Panel

DATE:

A 10-28-25

REV:

DETAIL #:

AG-WSD-ST6

INSIDE CORNER WS-1530	PITCH BREAK HIGH TO LOW WS-1536	PITCH BREAK LOW TO HIGH WS-1537	MINI EAVE FLASHING WS-1540
MINI GABLE FLASHING WS-1541	DOWNSPOUT STRAP WS-1542	DOWNSPOUT ELBOW WS-1543	DOWNSPOUT OUTLET WS-1575
UNIVERSAL GABLE FLASHING WS-1598	CRICKET FLASHING CUSTOM TRIM WS-1599		



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STANDARD TRIM

PANEL TYPE:

AG-Panel

DATE:

A 10-28-25

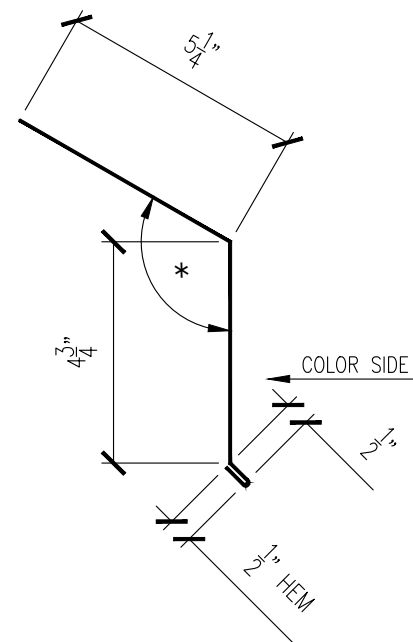
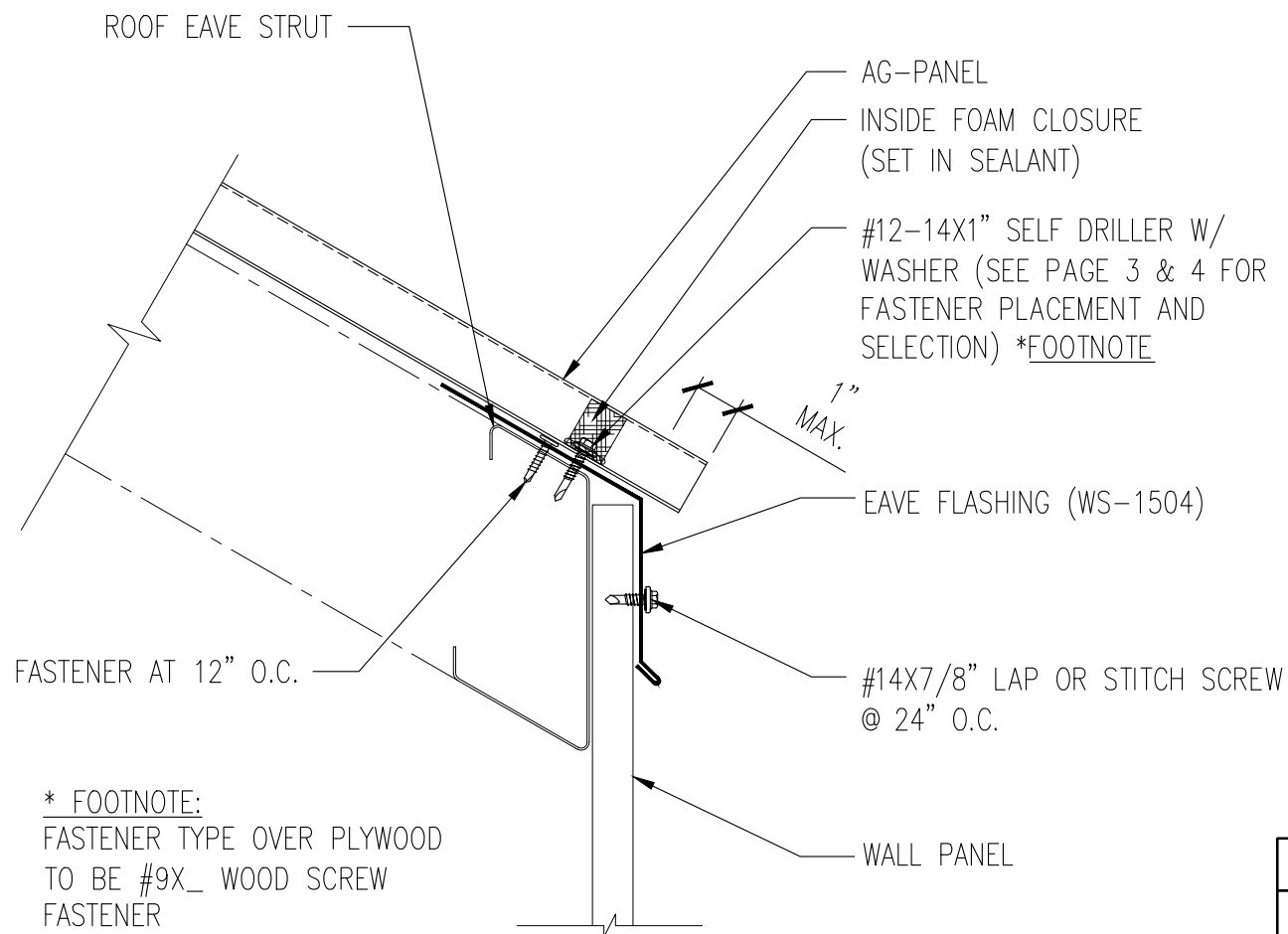
REV:

DETAIL #:

AG-WSD-ST7

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.

NOTE:
FOR HIGH SNOW AREA THE OVERHANG
SHOULD BE 1" MAX.



EAVE FLASHING (WS-1504)

* DENOTES ANGLE

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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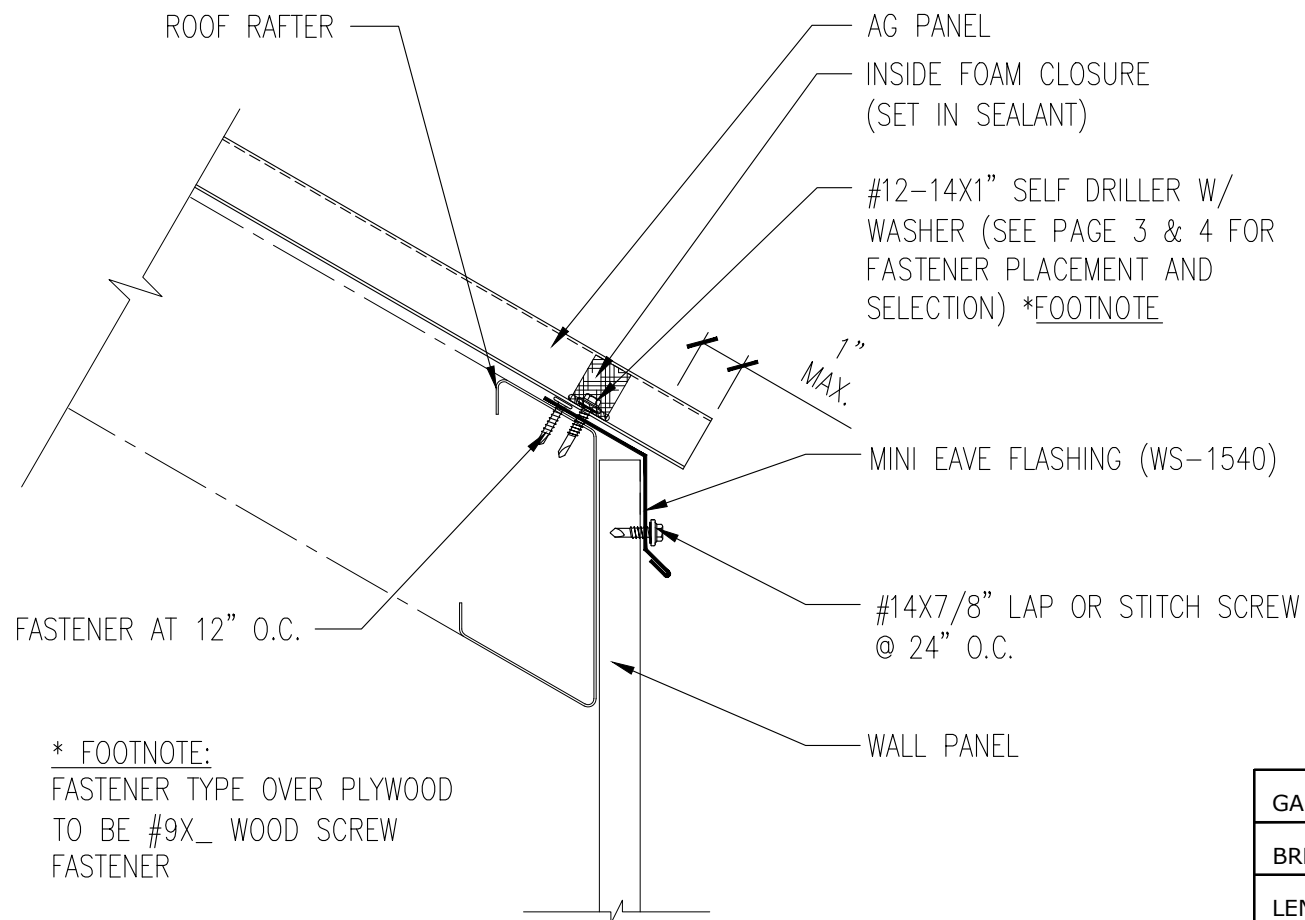
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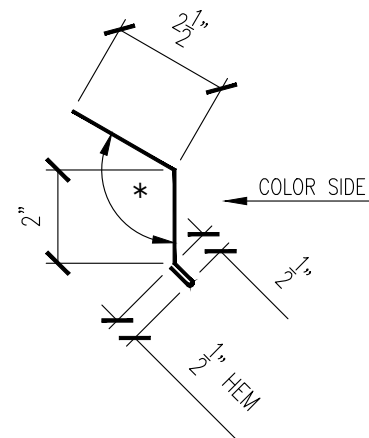
EAVE DETAIL		
	DATE:	
	A	10-28-25
	REV:	
PANEL TYPE:	DETAIL #:	
AG-Panel	AG-WSD-E1	

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.

NOTE:
FOR HIGH SNOW AREA THE OVERHANG
SHOULD BE 1" MAX.



* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER



MINI EAVE FLASHING
(WS-1540)

* DENOTES ANGLE

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
MINI EAVE DETAIL	DATE:
	A 10-28-25
	REV:
	DETAIL #:
PANEL TYPE:	AG-Panel
	AG-WSD-ME1



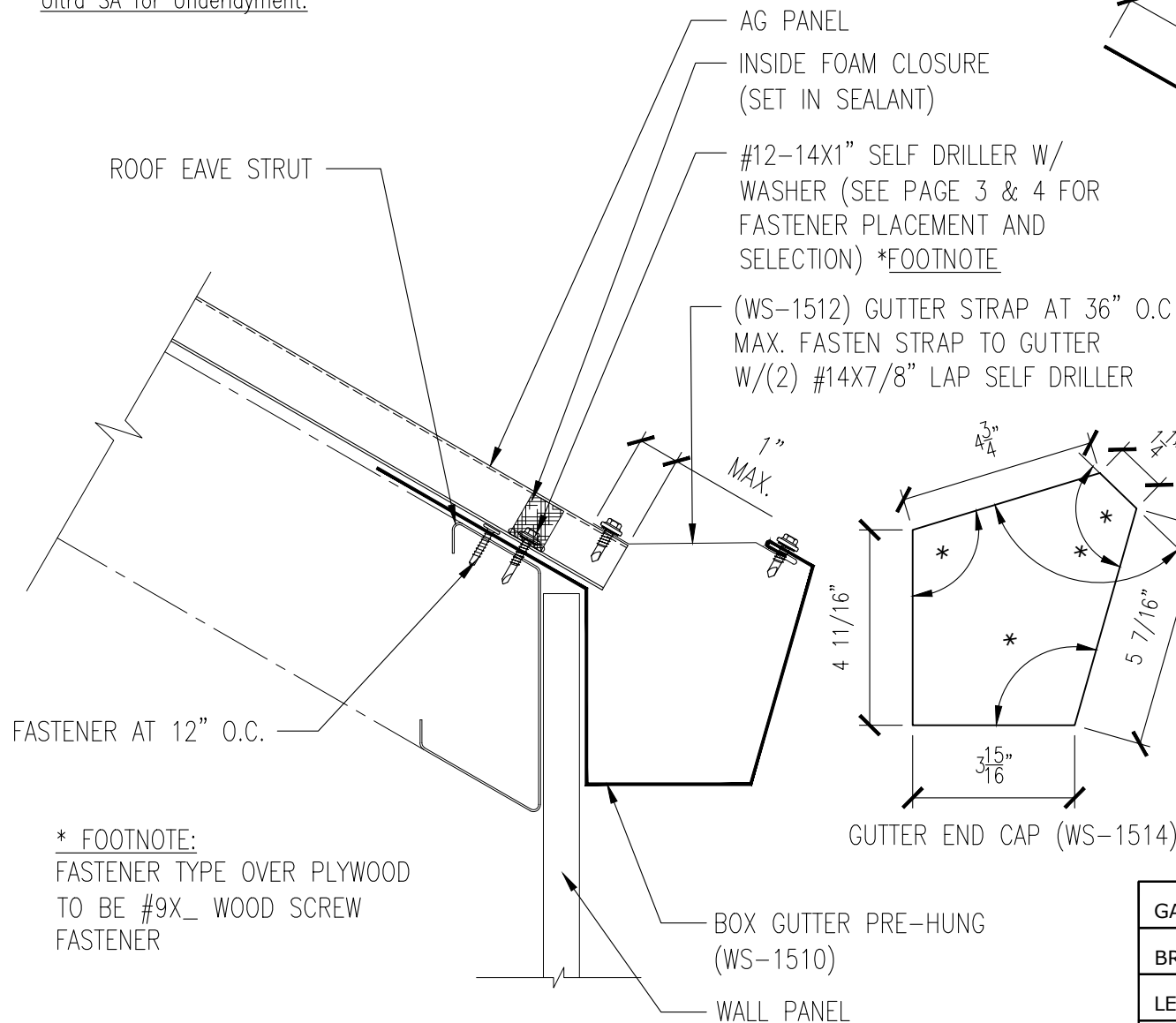
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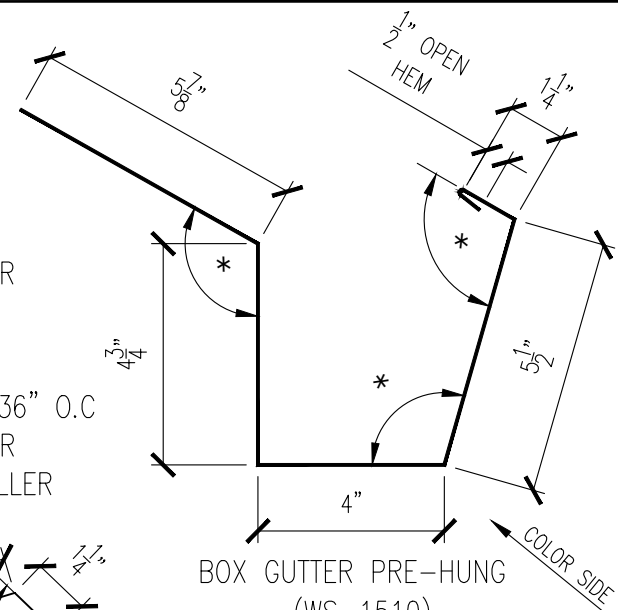
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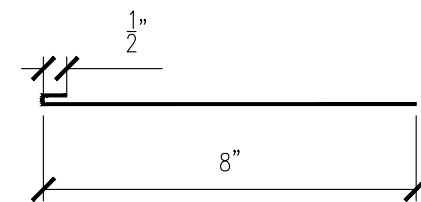
** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER



* DENOTES ANGLE



GUTTER END CAP (WS-1514)

GUTTER STRAP (WS-1512)

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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EAVE DETAIL PRE-HUNG GUTTER DETAIL

PANEL TYPE:

AG-Panel

DATE:

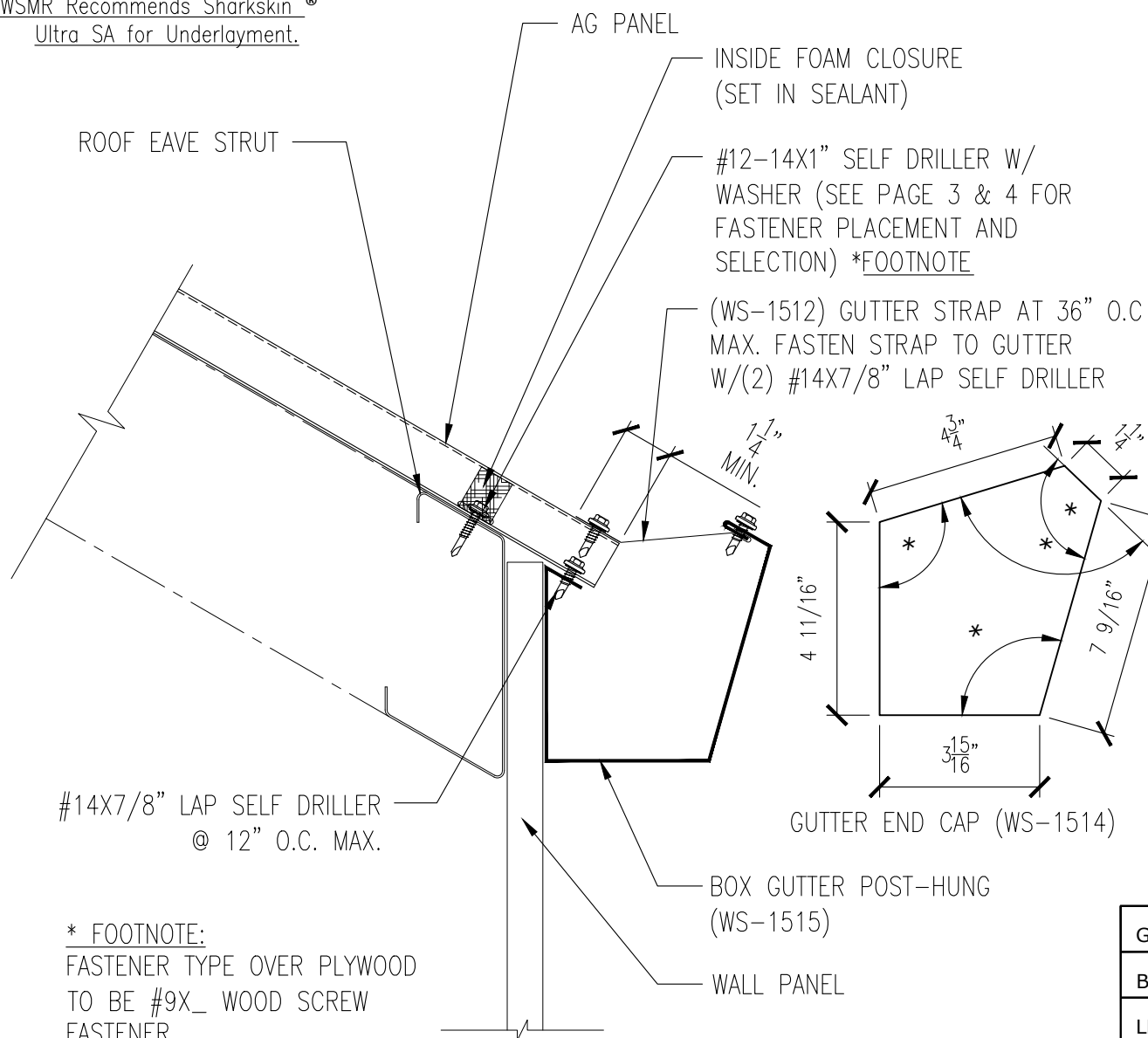
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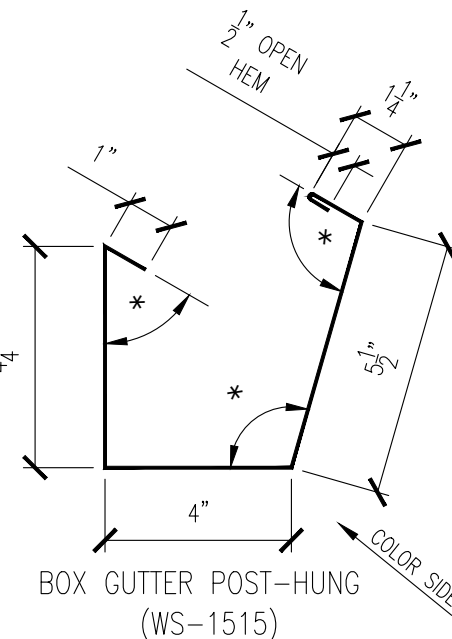
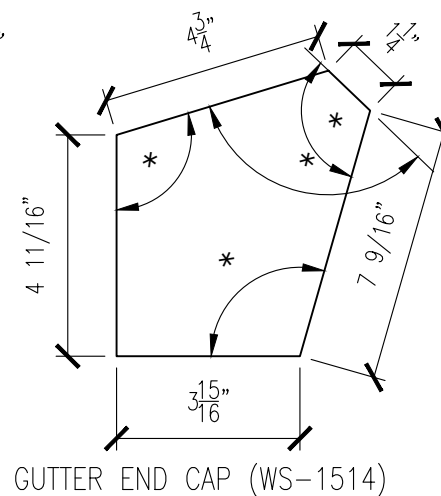
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AG-WSD-EPRG1

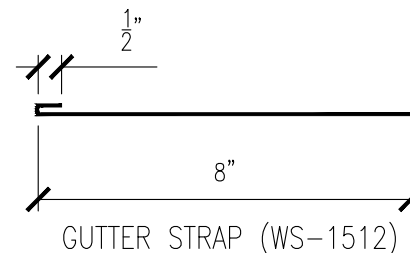
** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER



* DENOTES ANGLE



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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EAVE DETAIL POST HUNG GUTTER DETAIL

PANEL TYPE:

AG-Panel

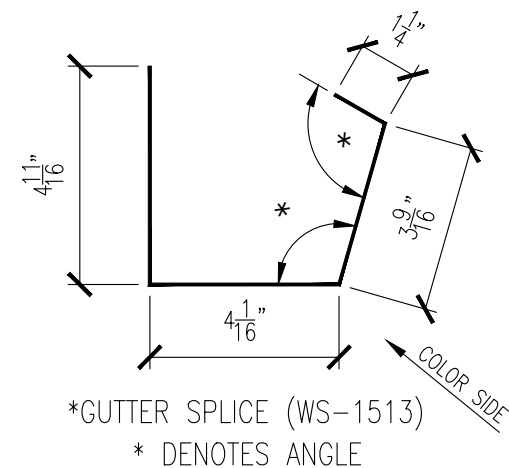
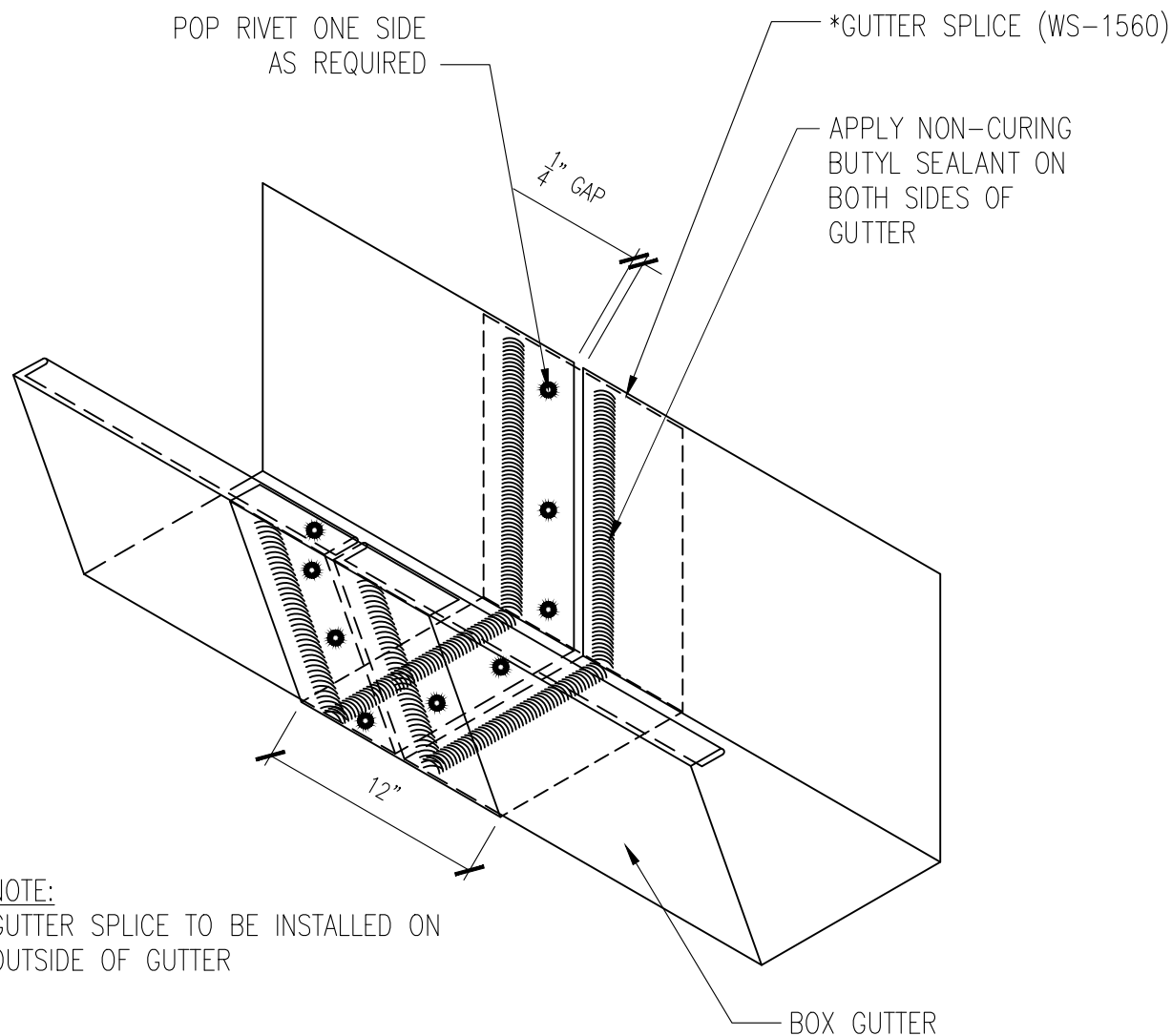
DATE:

A 10-28-25

REV:
DETAIL #:

AG-WSD-EG2

** WSMR Recommends Sharkskin®
Ultra SA for Underlayment.



"POST/PRE-HUNG
GUTTER"

NOTE:
GUTTER SPLICE TO BE INSTALLED ON
OUTSIDE OF GUTTER

Gauge: _____	Color: _____
Breaks: _____	Finish: _____
Length: _____	Stretch Out: _____
Material: _____	



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GUTTER SPLICE DETAIL

PANEL TYPE:

AG-Panel

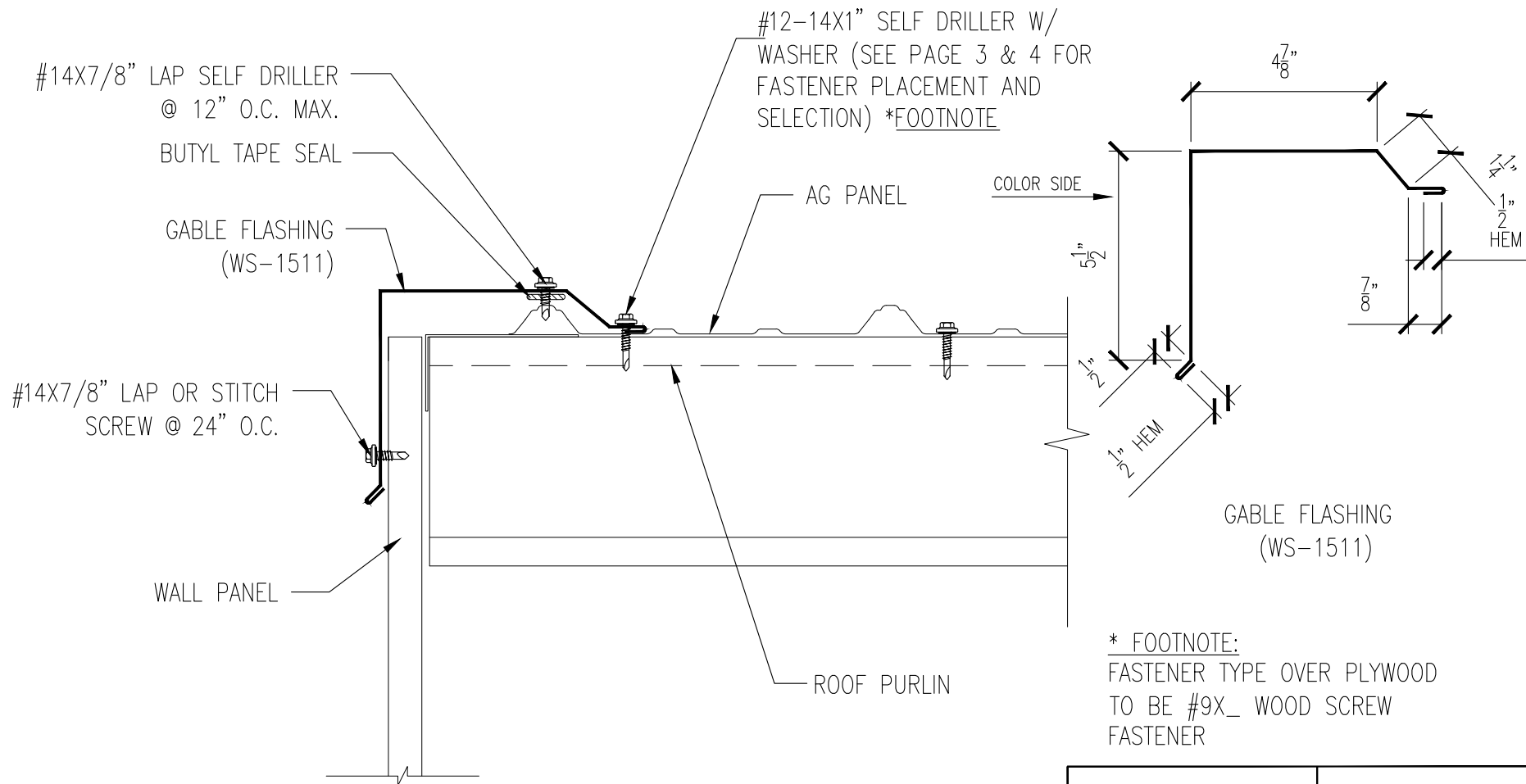
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-EG3

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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GABLE FLASHING DETAIL

PANEL TYPE:

AG-Panel

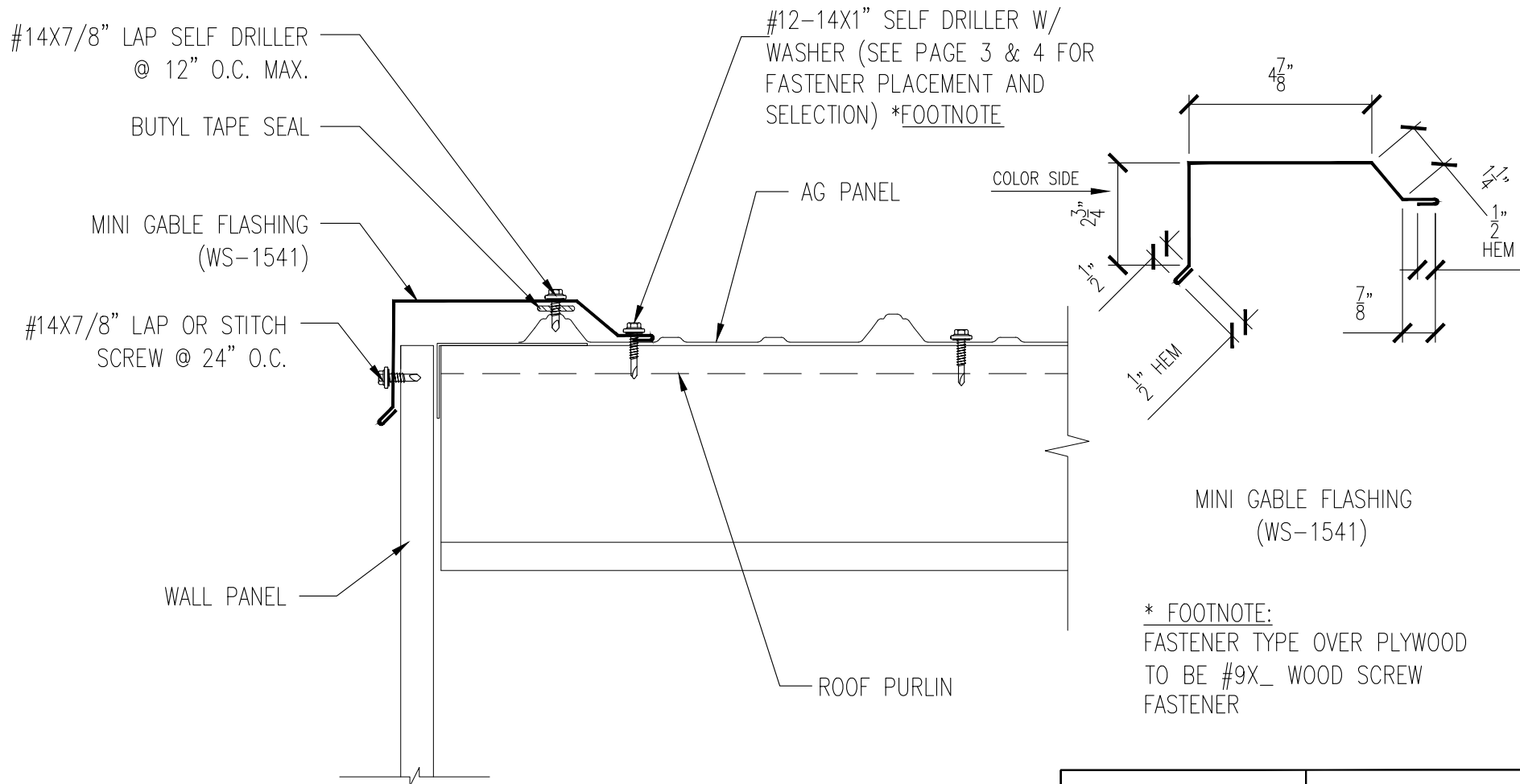
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-GF2

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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MINI GABLE FLASHING DETAIL

PANEL TYPE:

AG-Panel

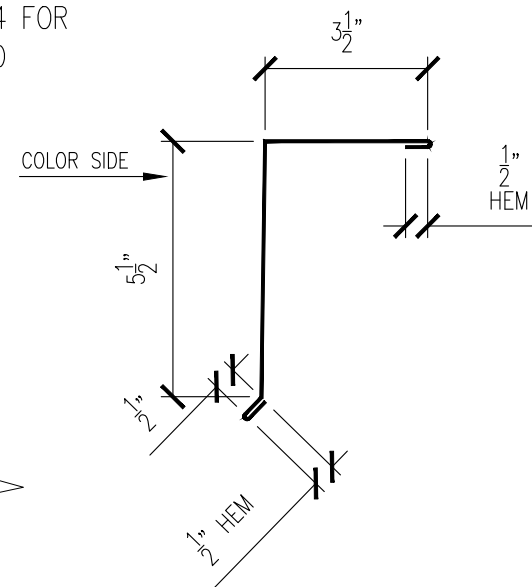
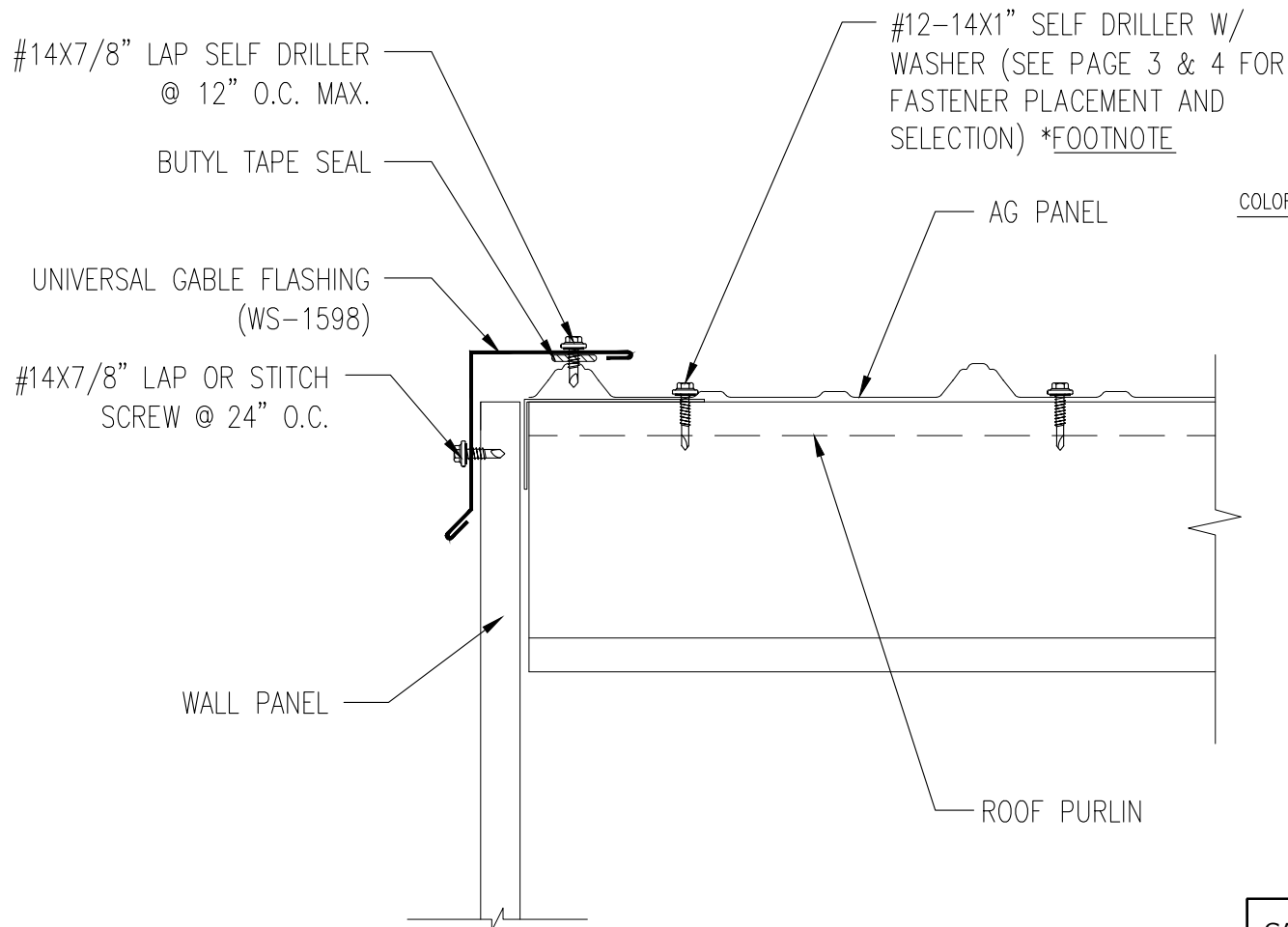
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-MGF2

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



UNIVERSAL GABLE FLASHING
(WS-1598)

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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UNIVERSAL GABLE FLASHING DETAIL

PANEL TYPE:

AG-Panel

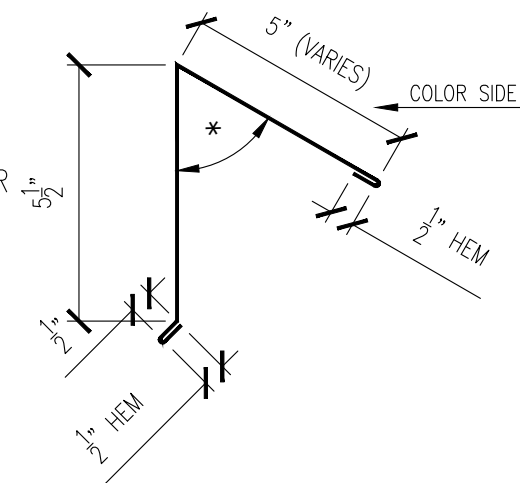
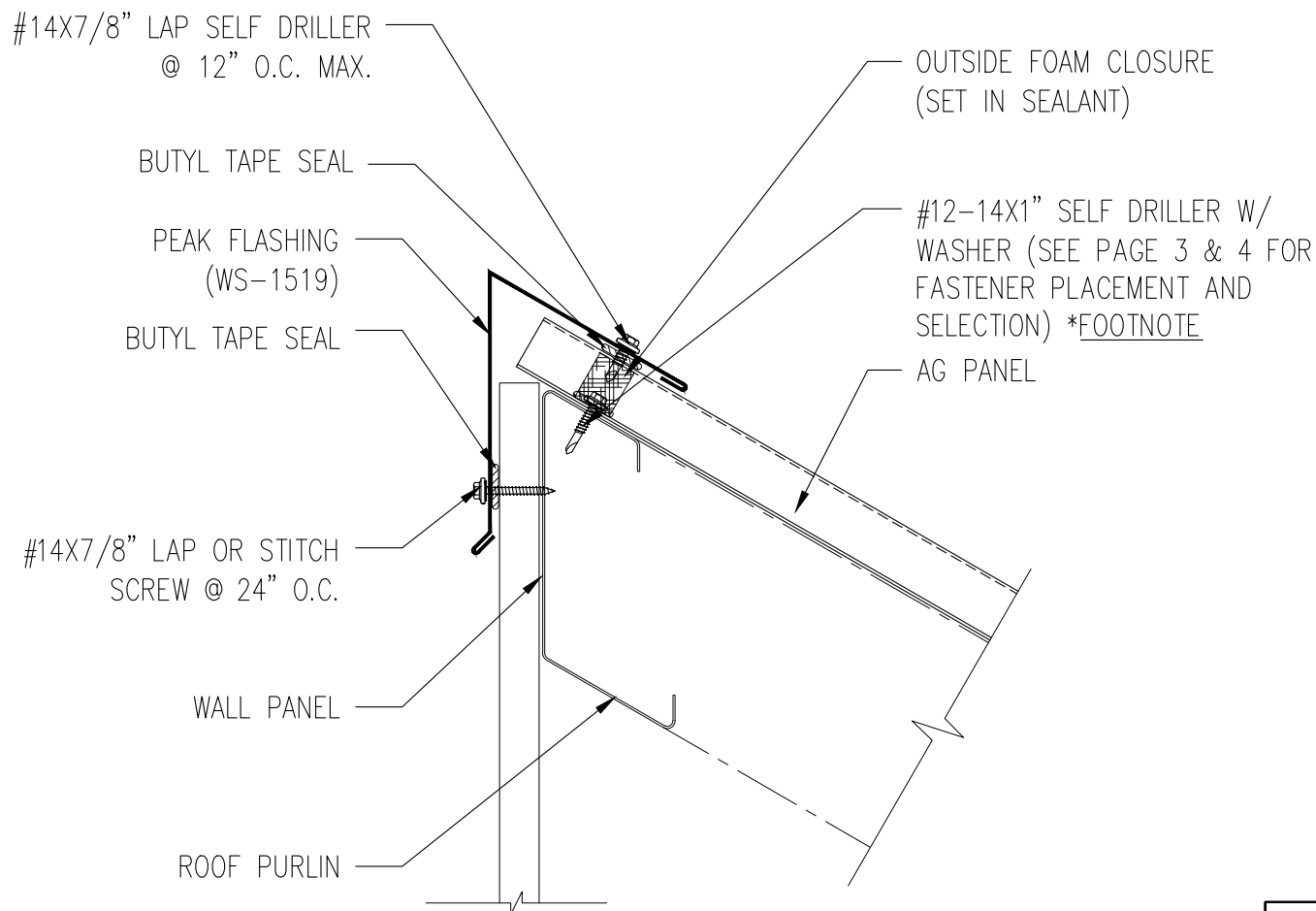
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-UGF2

** WSMR Recommends Sharkskin®
Ultra SA for Underlayment.



PEAK FLASHING/HIGH EAVE FLASHING
(WS-1519)

* DENOTES ANGLE

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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PEAK FLASHING/ HIGH EAVE DETAIL

PANEL TYPE:

AG-Panel

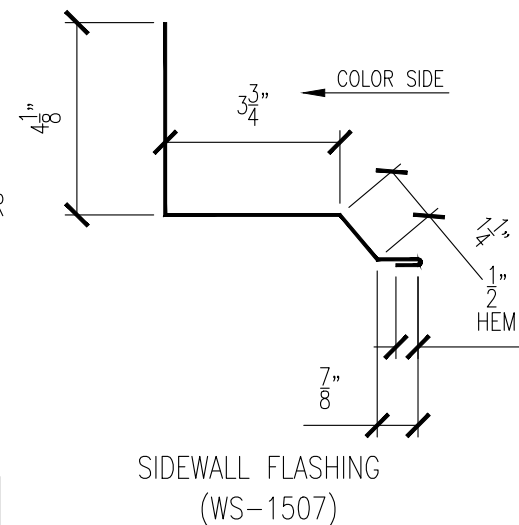
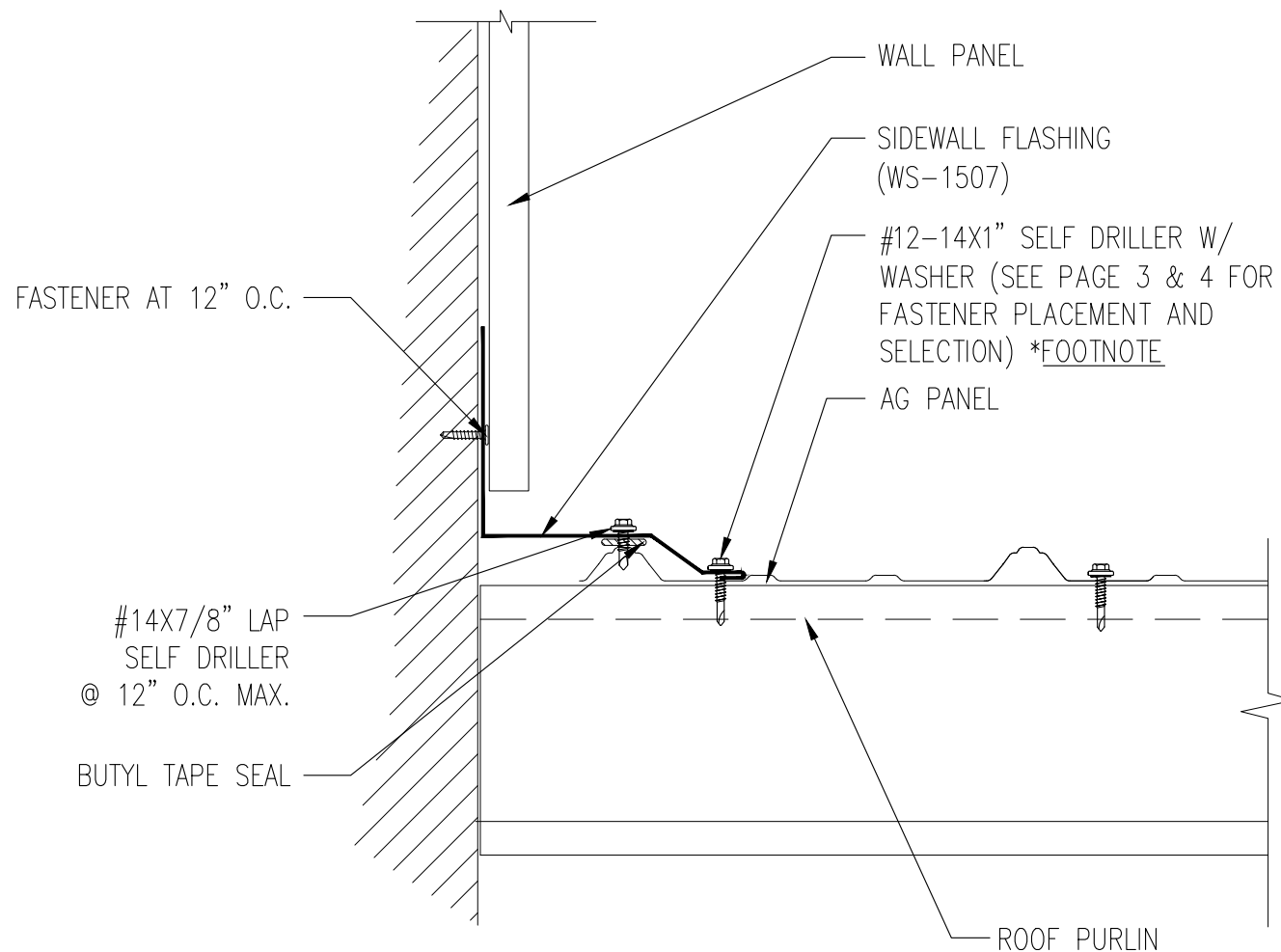
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-PK3

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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SIDEWALL FLASHING DETAIL

PANEL TYPE:

AG-Panel

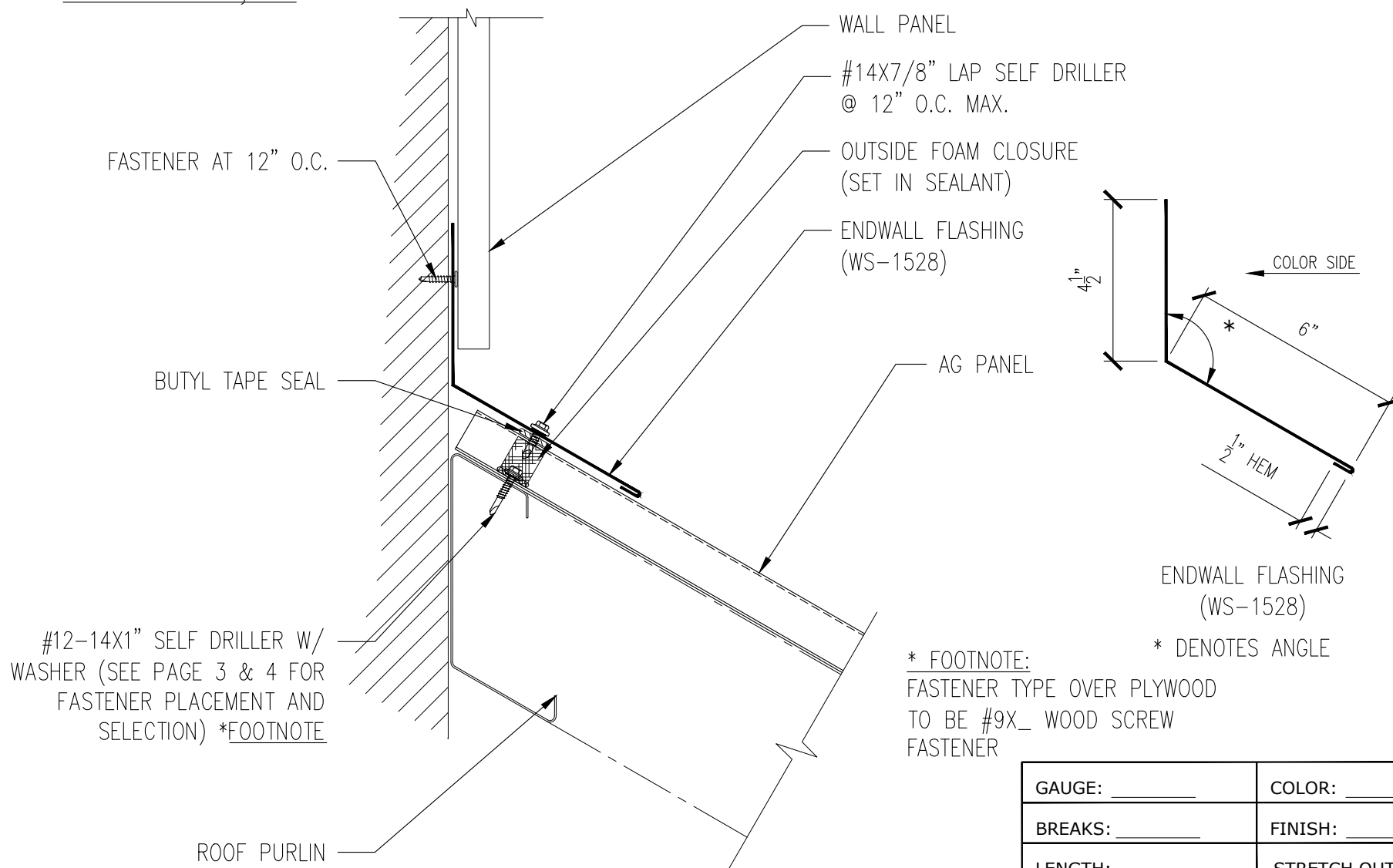
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-SW4

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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ENDWALL FLASHING DETAIL

PANEL TYPE:

AG-Panel

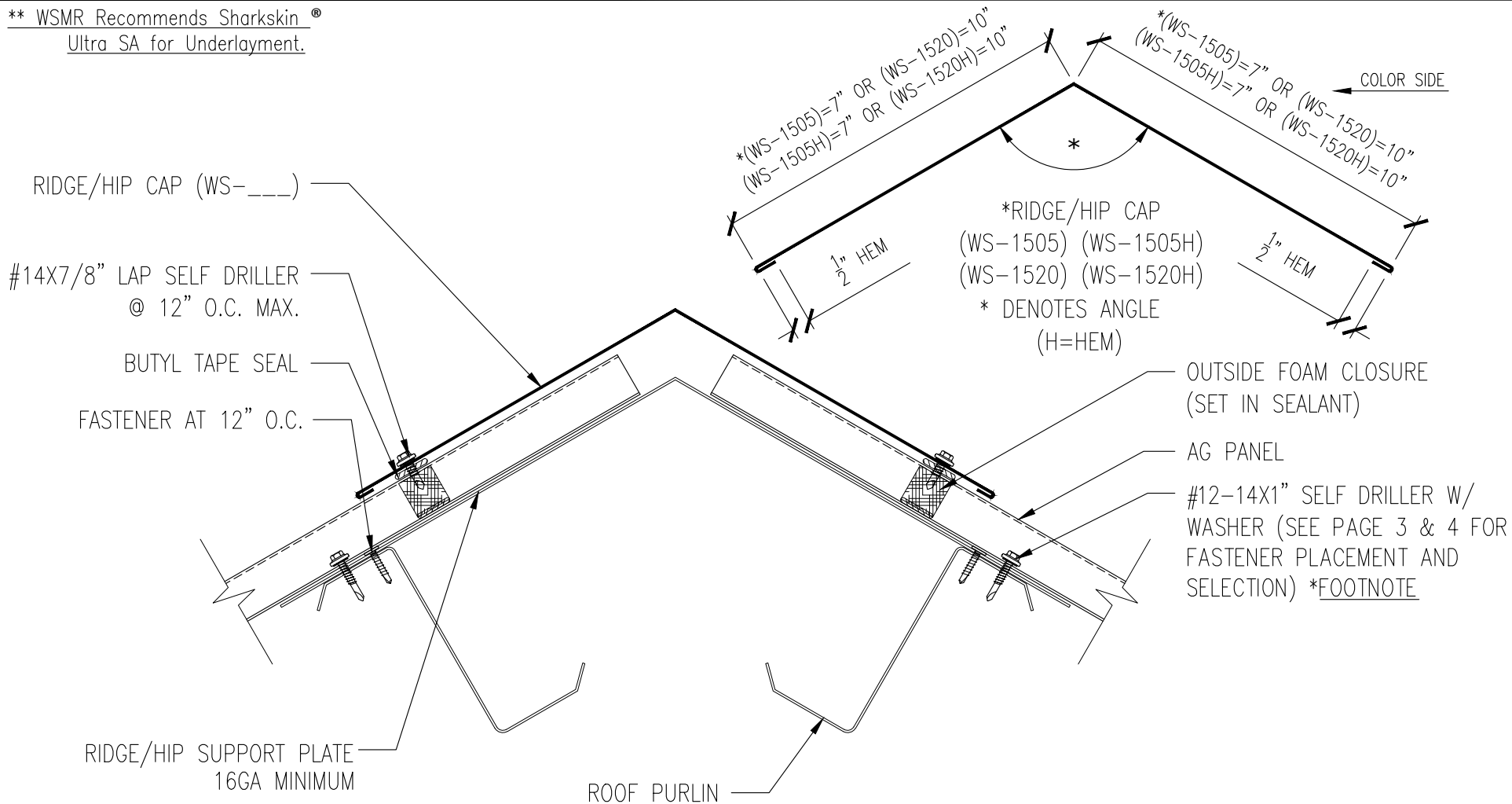
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-EW5

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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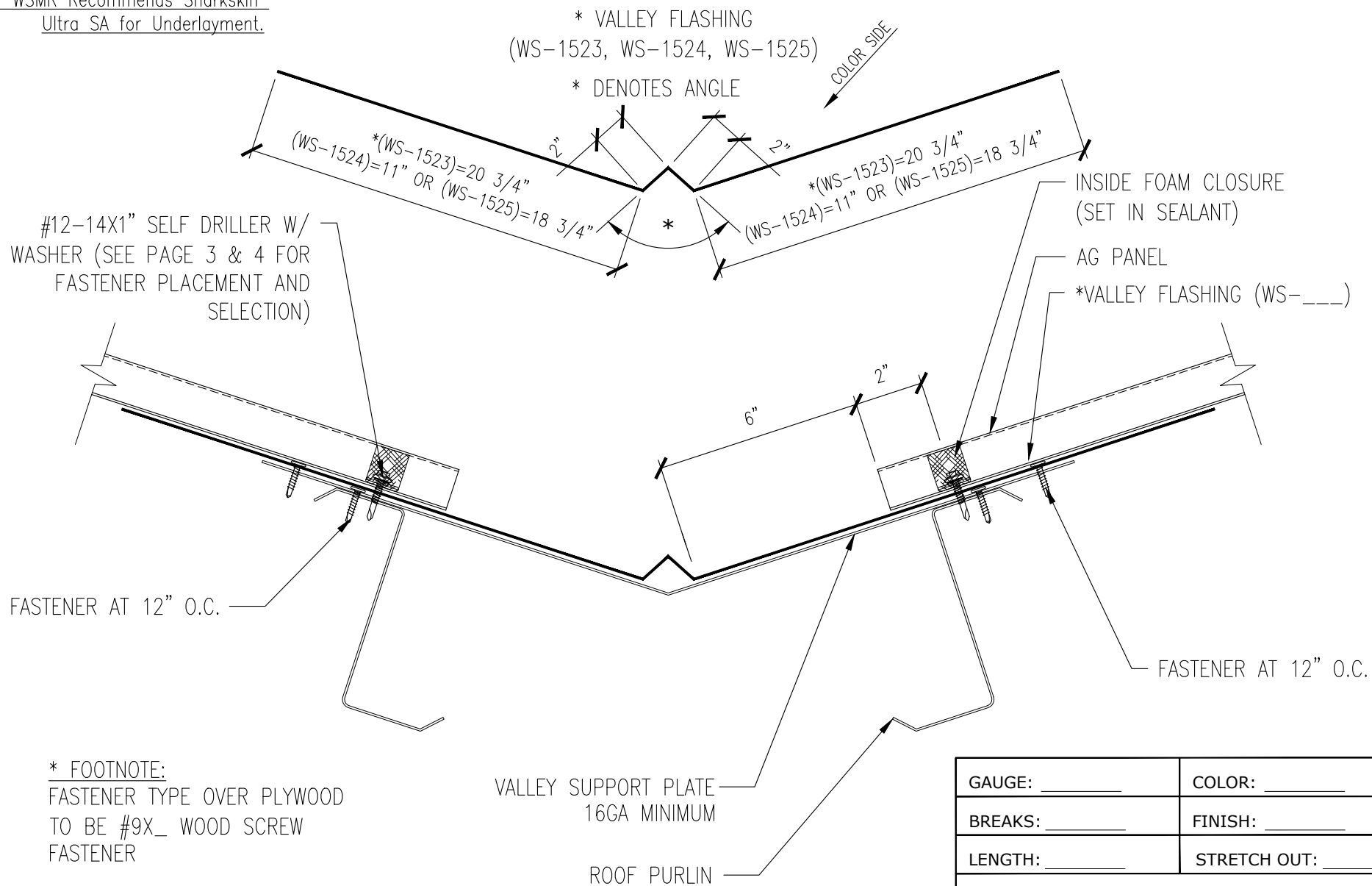
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RIDGE/HIP CAP DETAIL		DATE:
	A	10-28-25
	REV:	
PANEL TYPE:	DETAIL #:	
AG-Panel	AG-WSD-RH6	

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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VALLEY DETAIL

PANEL TYPE:

AG-Panel

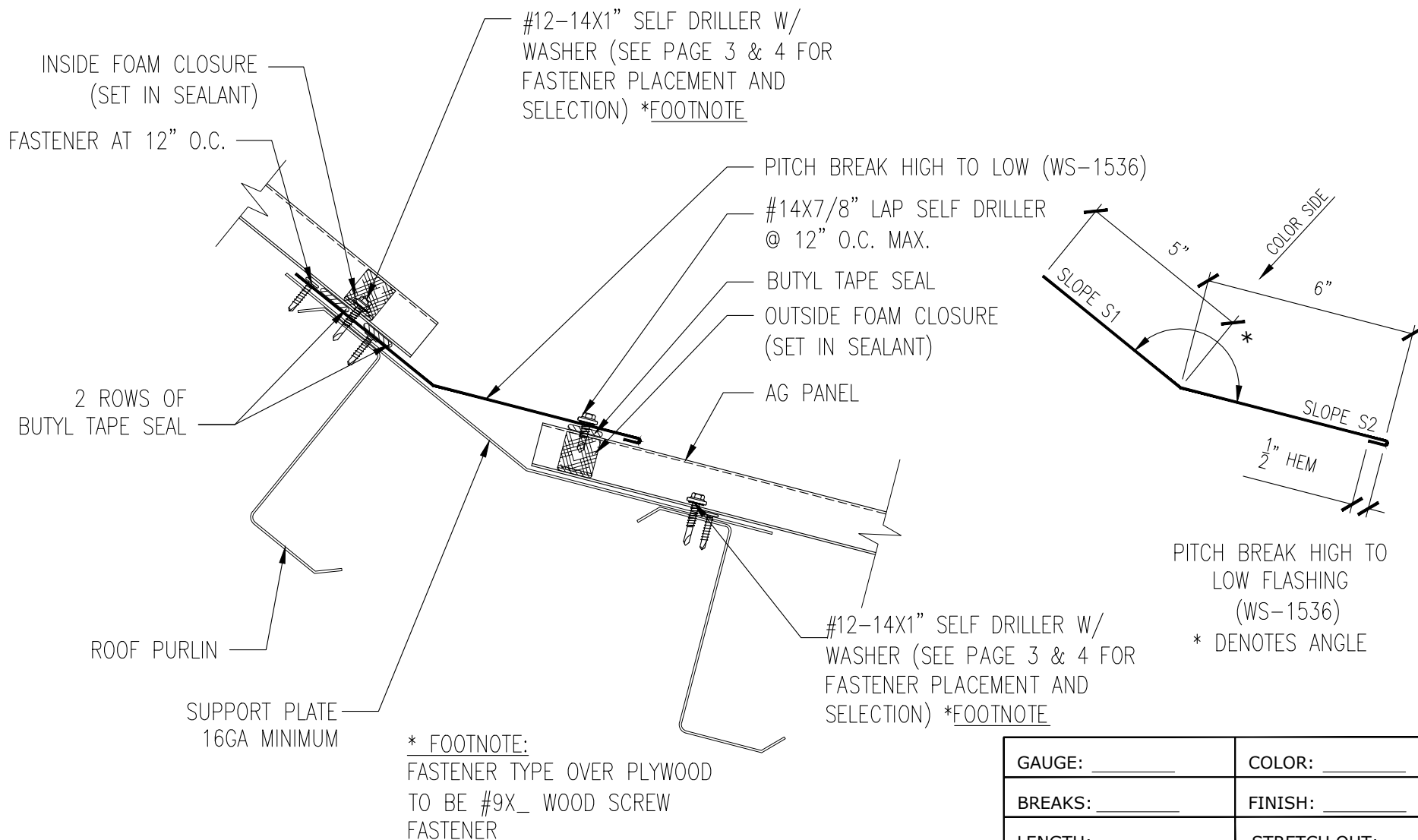
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-V6

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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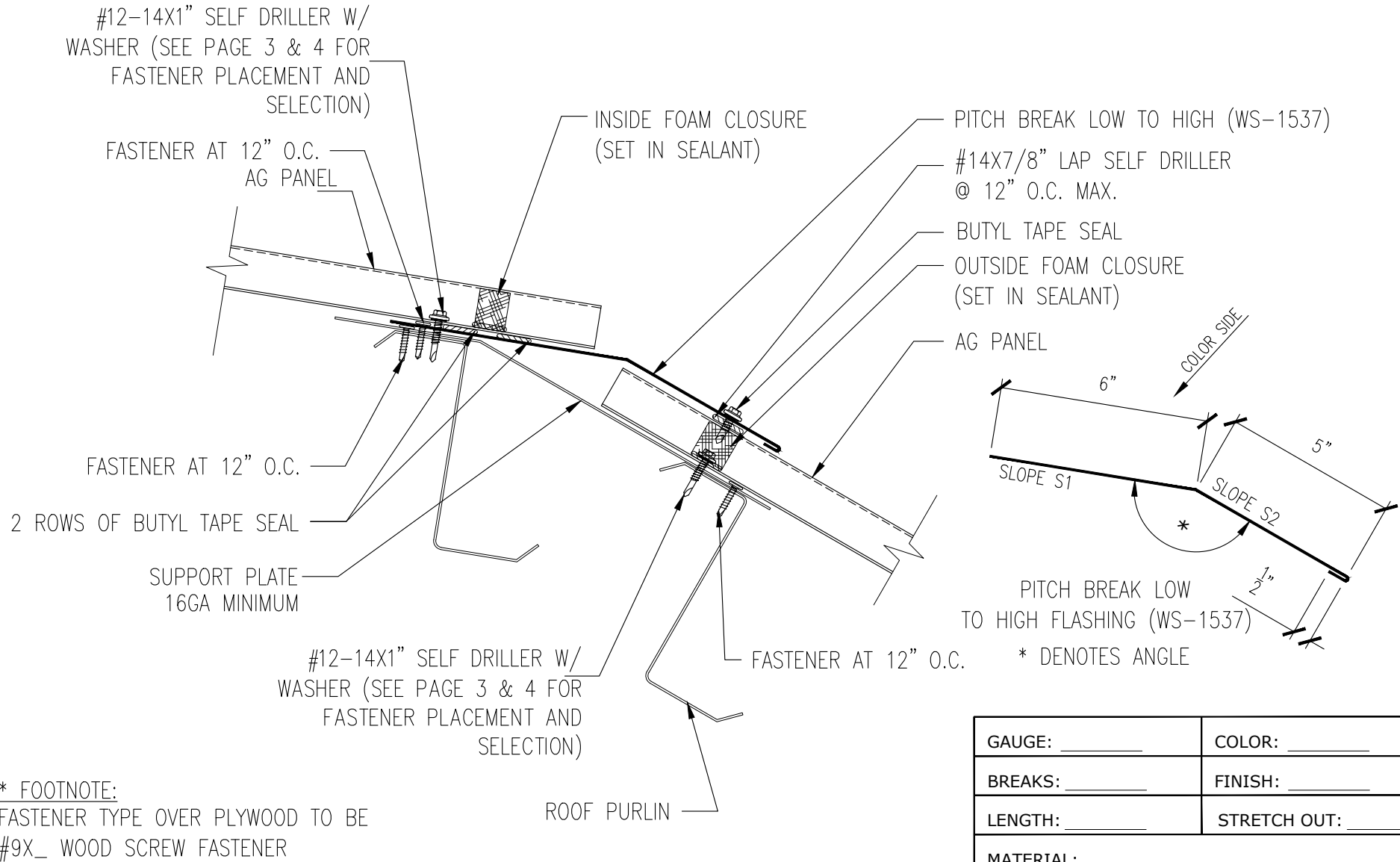
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PITCH BREAK HIGH TO LOW DETAIL	DATE:	
	A	10-28-25
	REV:	
	DETAIL #:	
PANEL TYPE:	AG-Panel	
		AG-WSD-PB8

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
PITCH BREAK LOW TO HIGH DETAIL	DATE:
	A 10-28-25
	REV:
	DETAIL #: AG-WSD-PB9
PANEL TYPE:	AG-Panel



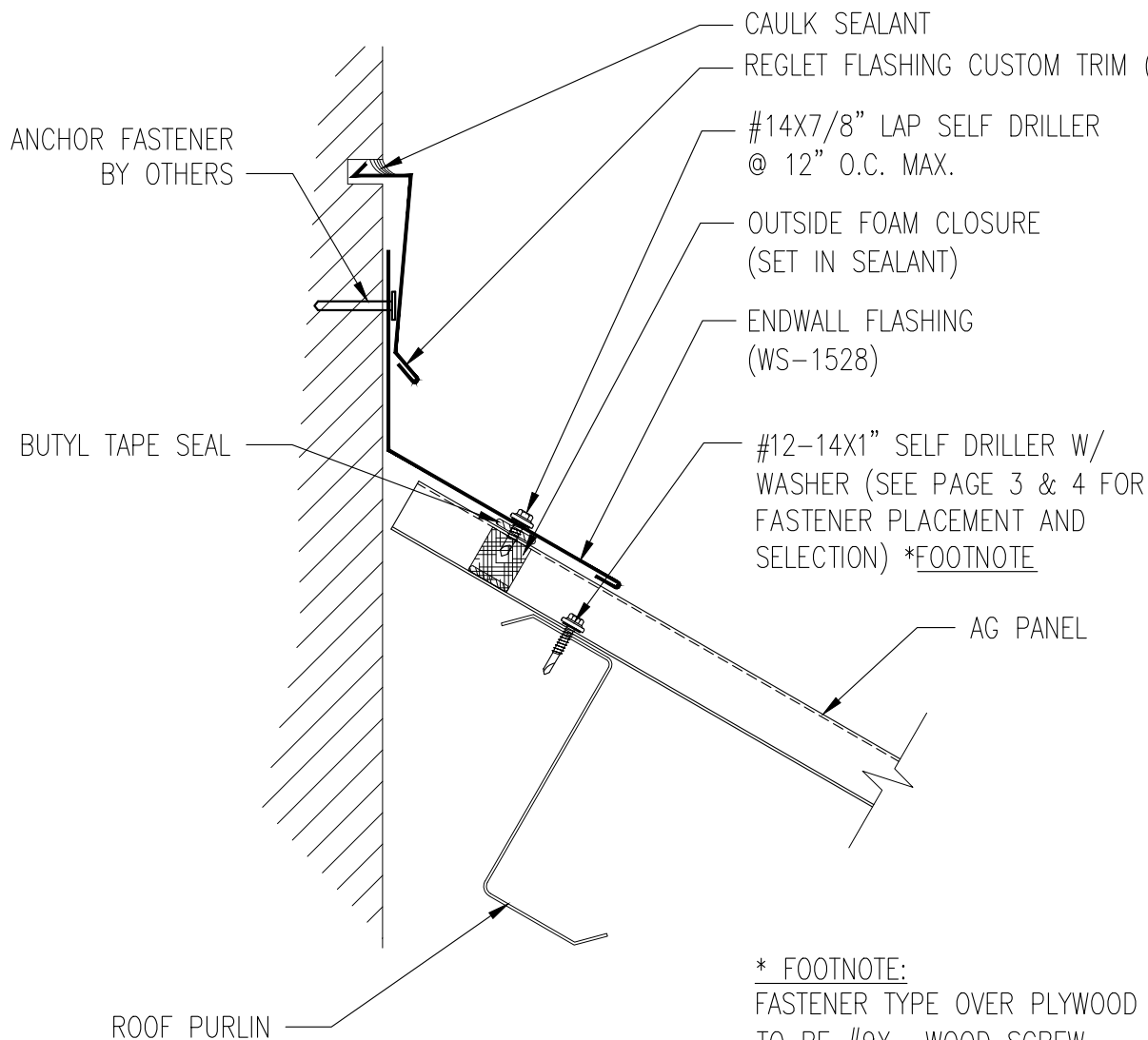
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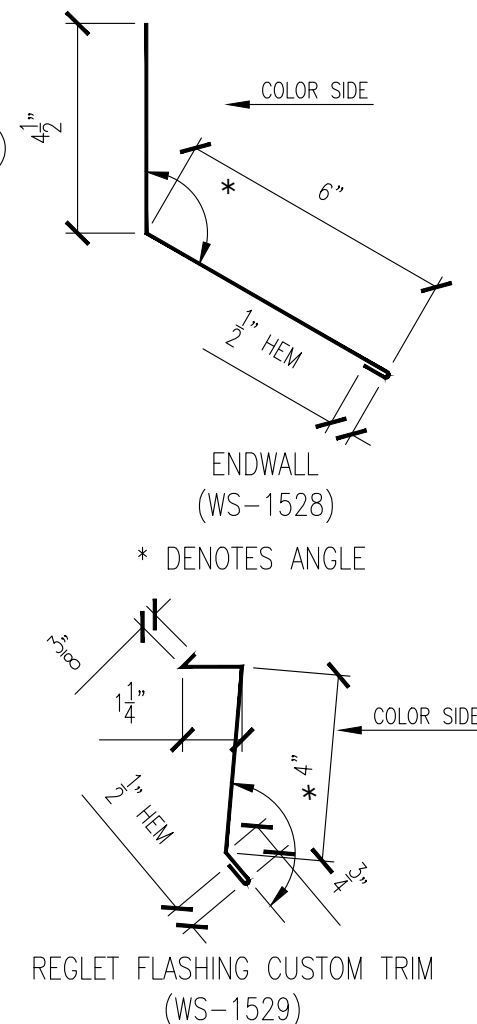
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** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
CHIMNEY FLASHING DETAILS	
PANEL TYPE: AG-Panel	DATE: A 10-28-25
	REV: DETAIL #:
	AG-WSD-CF10



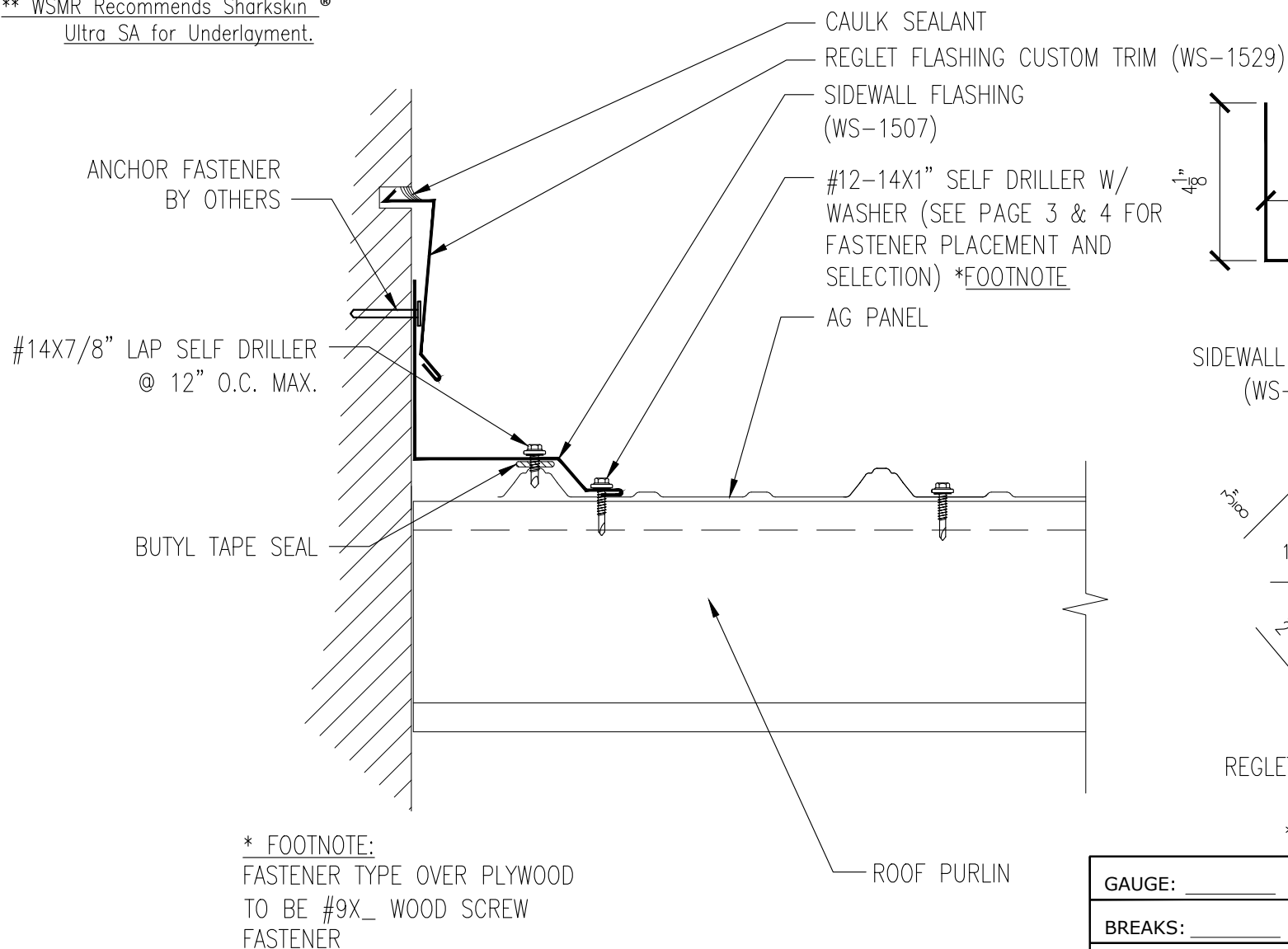
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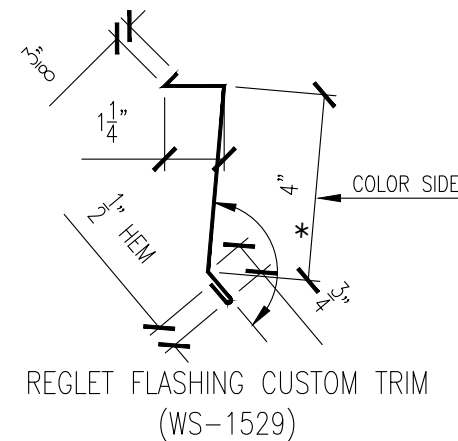
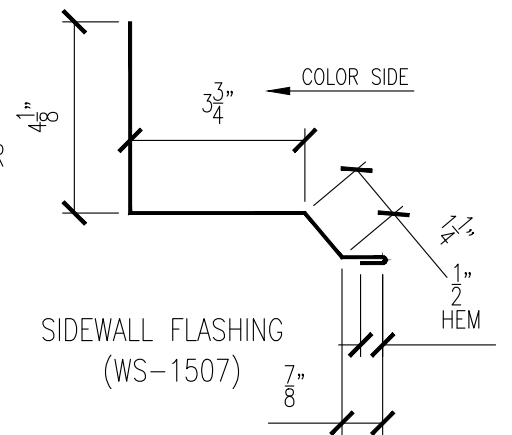
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** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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CHIMNEY FLASHING DETAILS

PANEL TYPE:

AG-Panel

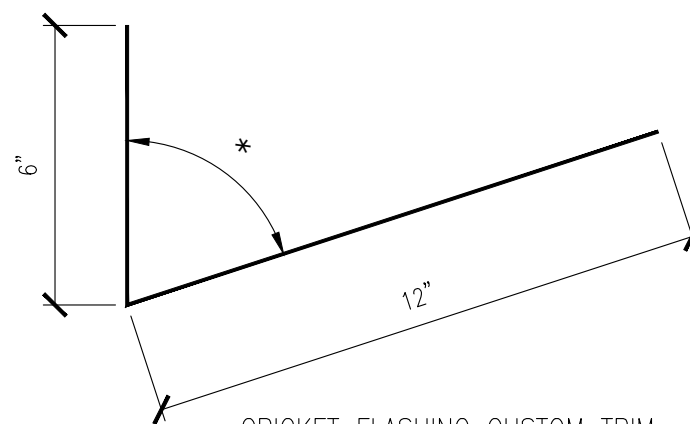
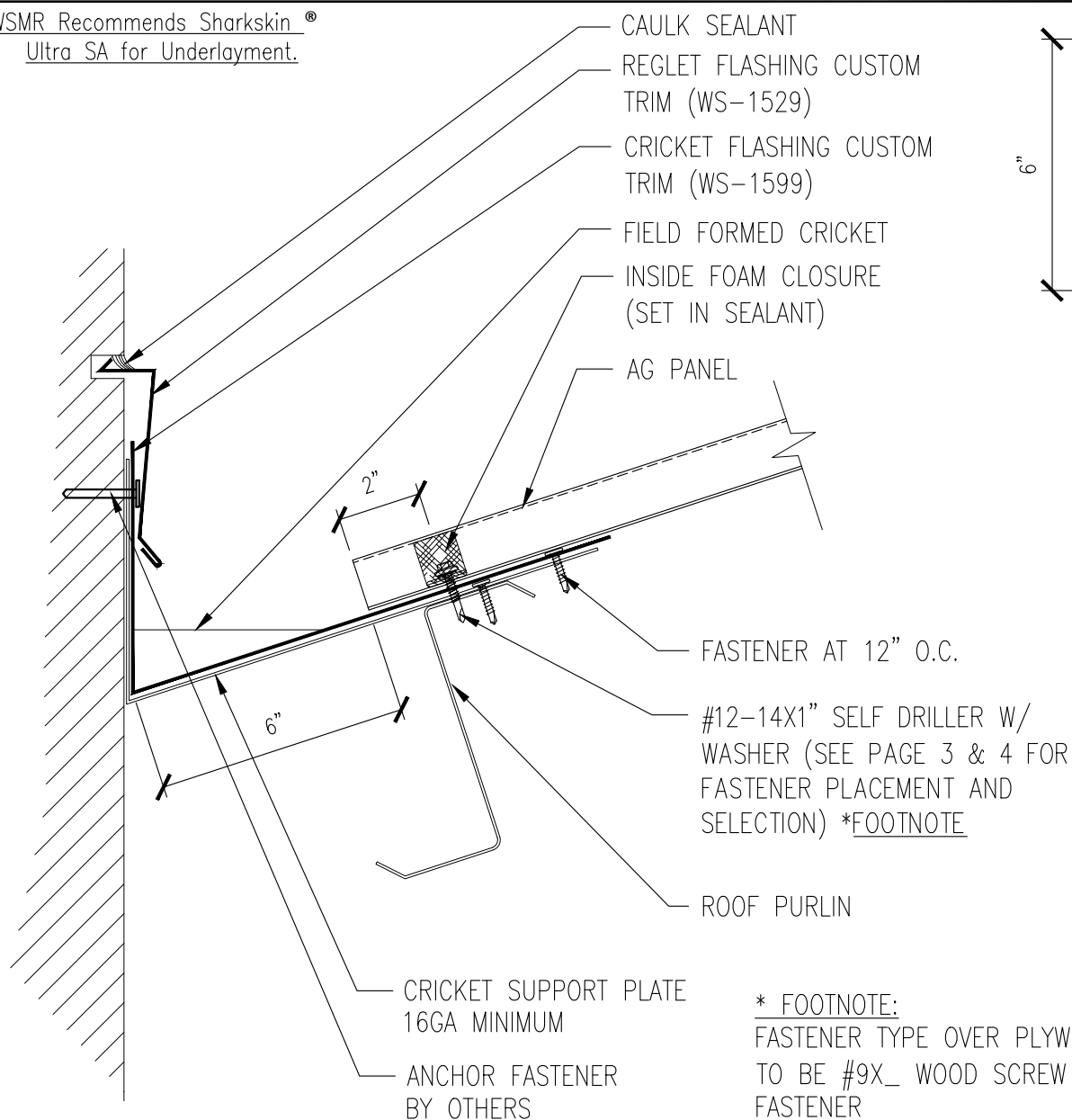
DATE:

A 10-28-25

REV:

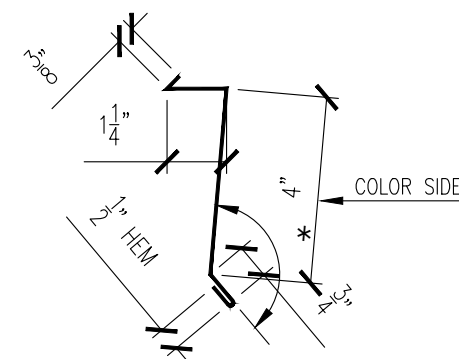
DETAIL #:
AG-WSD-CF11

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



CRICKET FLASHING CUSTOM TRIM
(WS-1599)

* DENOTES ANGLE



REGLET FLASHING CUSTOM TRIM
(WS-1529)

* DENOTES ANGLE

GAUGE: _____		COLOR: _____	
BREAKS: _____		FINISH: _____	
LENGTH: _____		STRETCH OUT: _____	
MATERIAL: _____			
CHIMNEY FLASHING DETAILS			
			DATE:
		A	10-28-25
PANEL TYPE: AG-Panel		REV:	
		DETAIL #: AG-WSD-CF12	



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CHIMNEY FLASHING DETAILS

PANEL TYPE:

AG-Panel

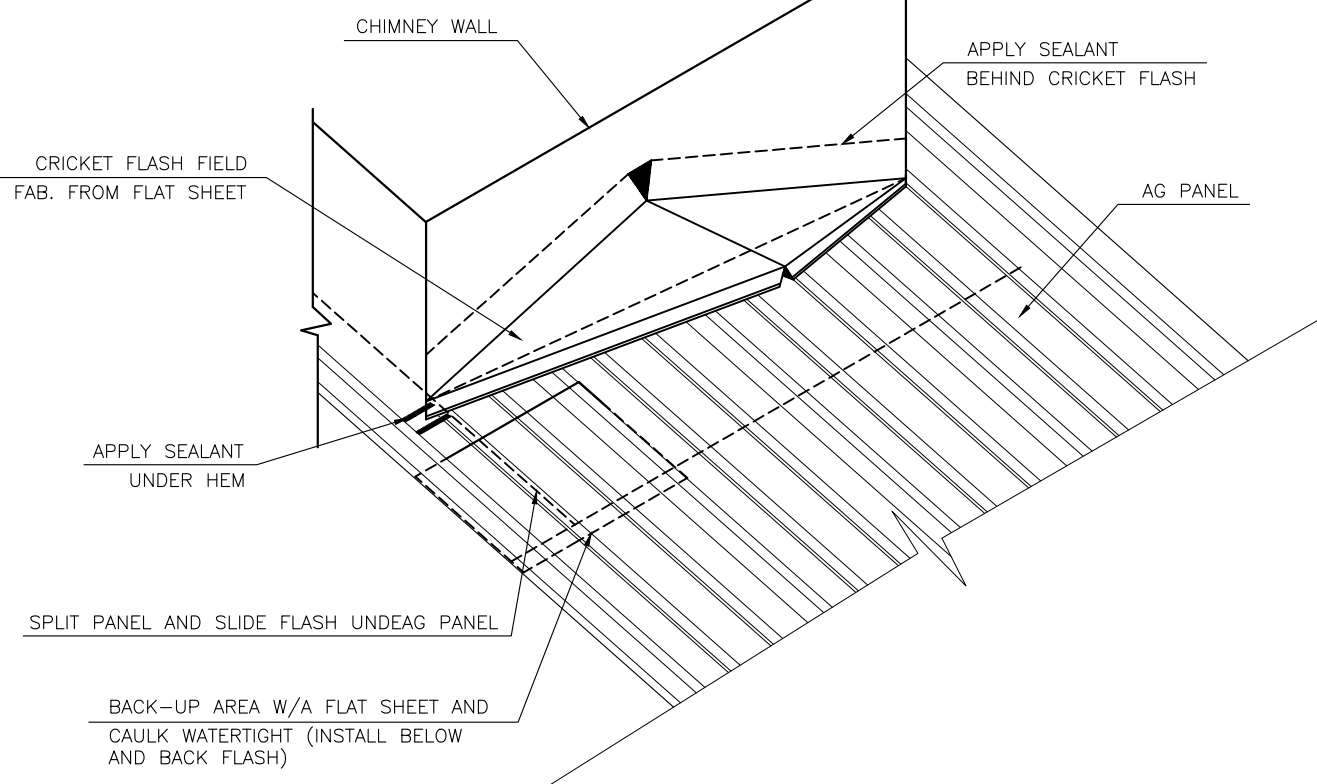
DATE:

A	10-28-25
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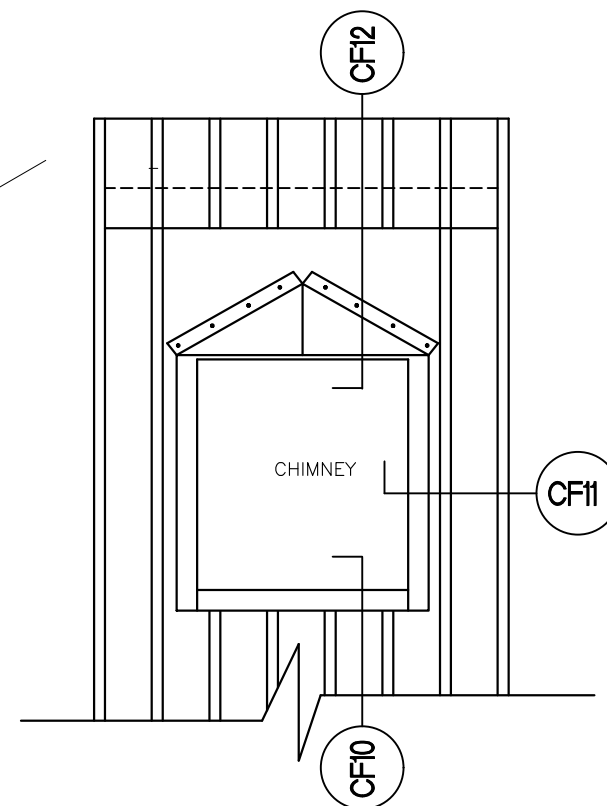
REV:

DETAIL #:
AG-WSD-CF12

** WSMR Recommends Sharkskin[®]
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ISOMETRIC VIEW



PLAN VIEW



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ISOMETRIC CRICKET DETAIL @ CHIMNEY

PANEL TYPE:

AG-Panel

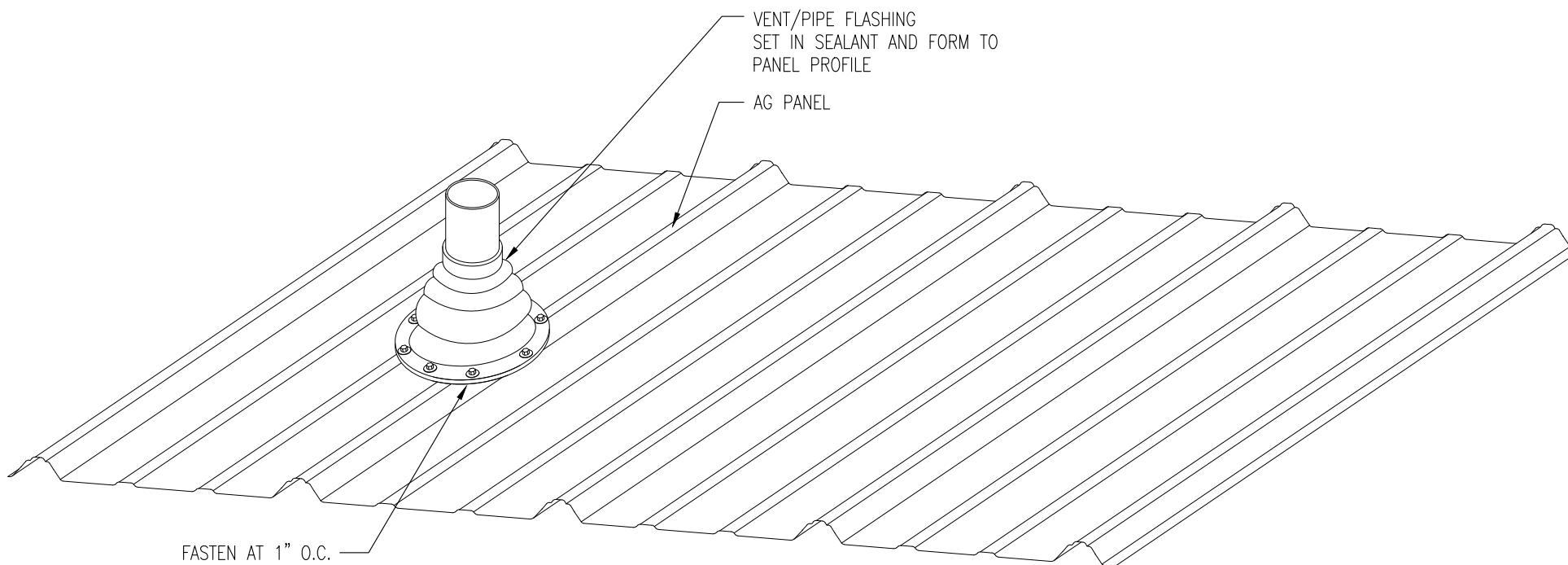
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-CF13

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



* SEE MANUFACTURING SPECIFICATIONS
FOR INSTALLATION INSTRUCTIONS

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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PIPE FLASHING DETAIL

PANEL TYPE:

AG-Panel

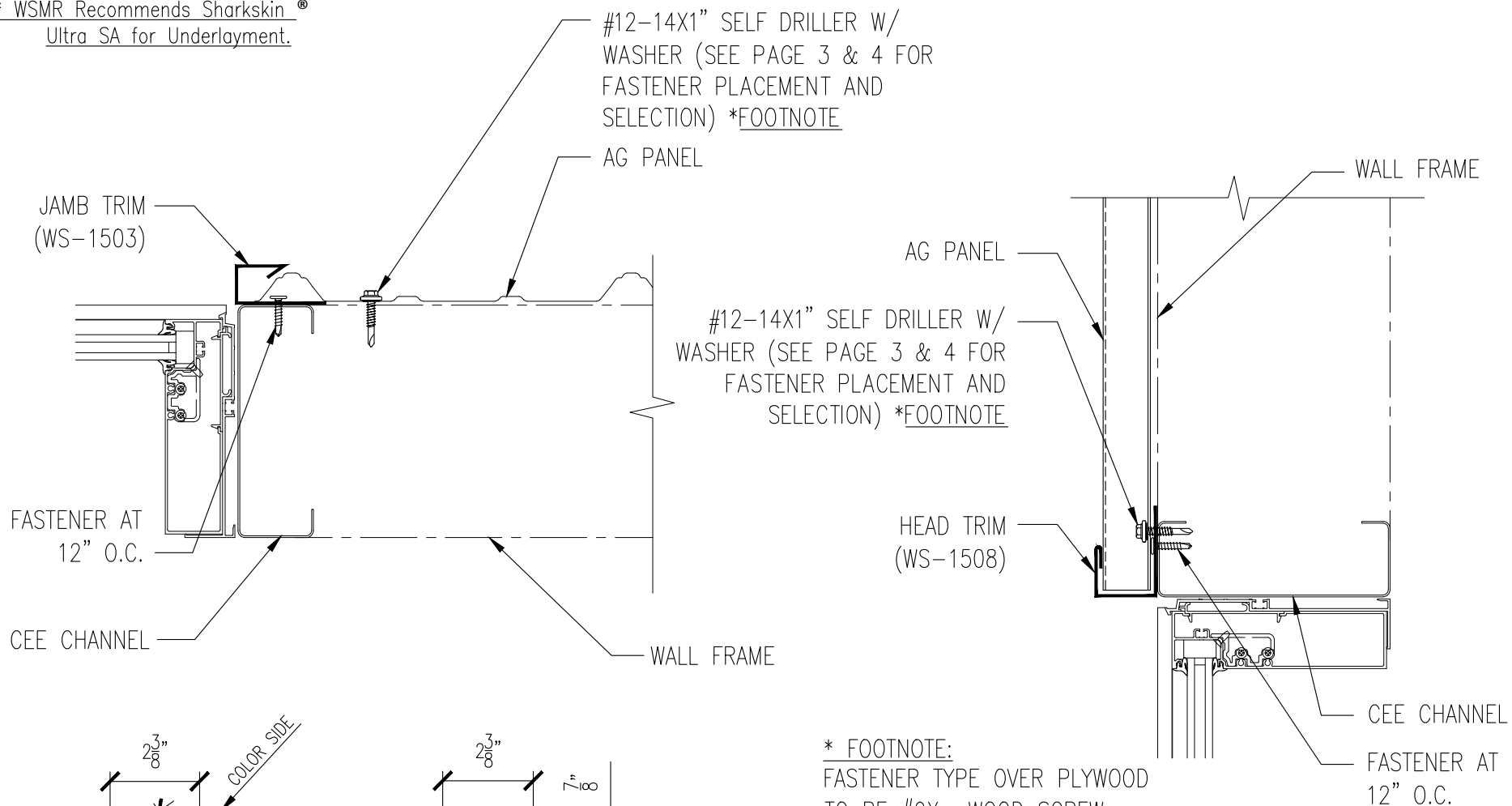
DATE:

A 10-28-25

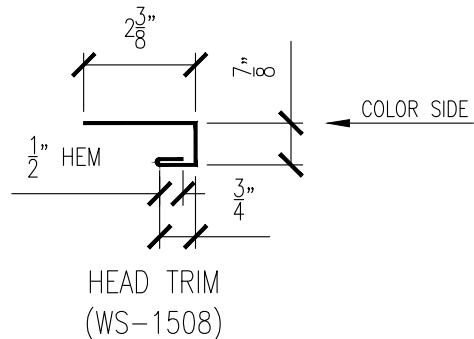
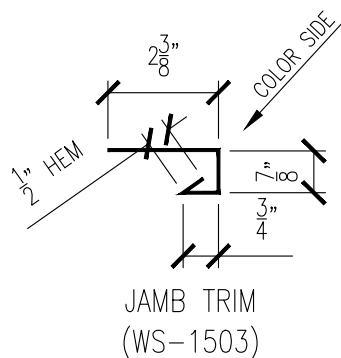
REV:

DETAIL #:
AG-WSD-PF14

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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HEAD AND JAMB DETAILS

PANEL TYPE:

AG-Panel

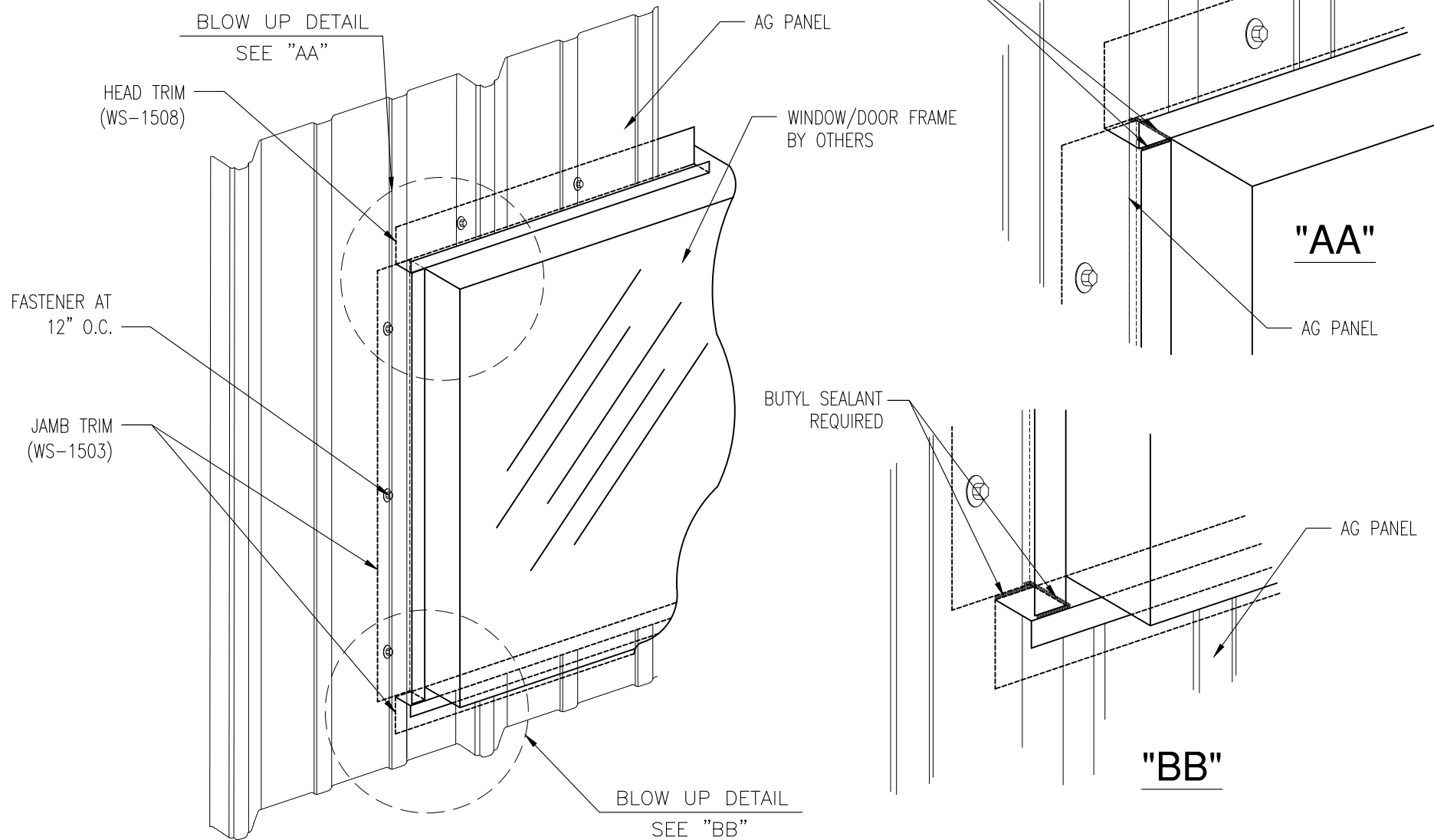
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-W15

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



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ISOMETRIC WALL DETAIL

PANEL TYPE:

AG-Panel

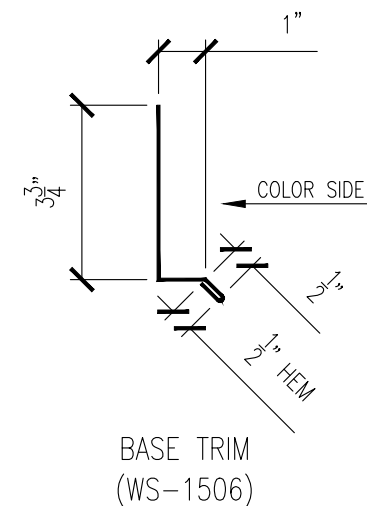
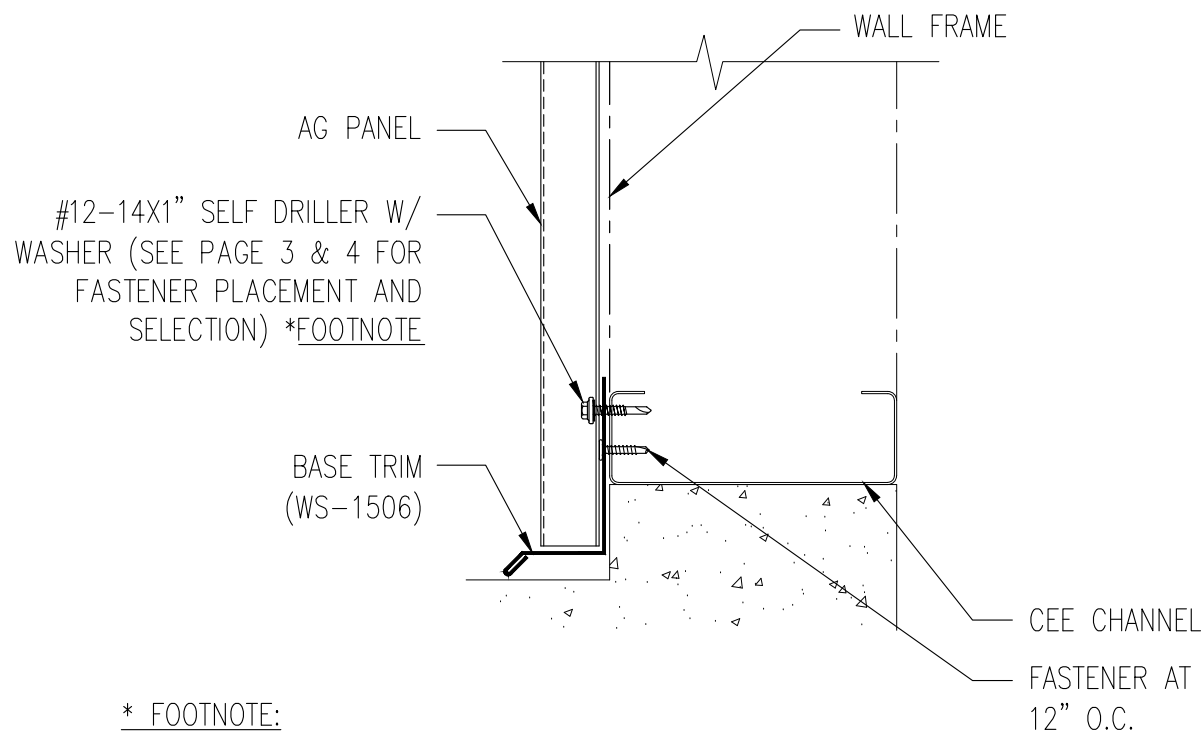
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-W16

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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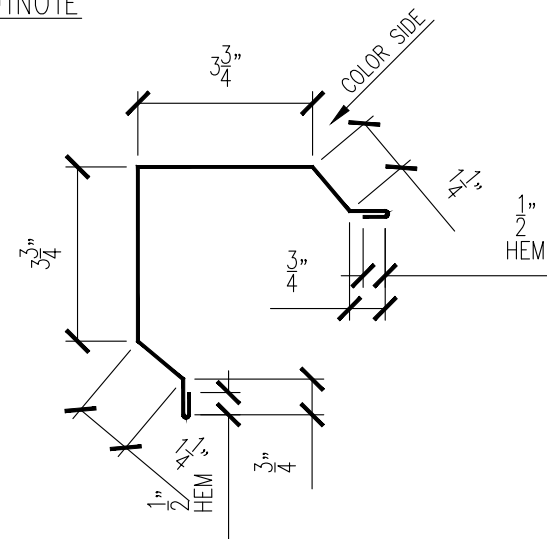
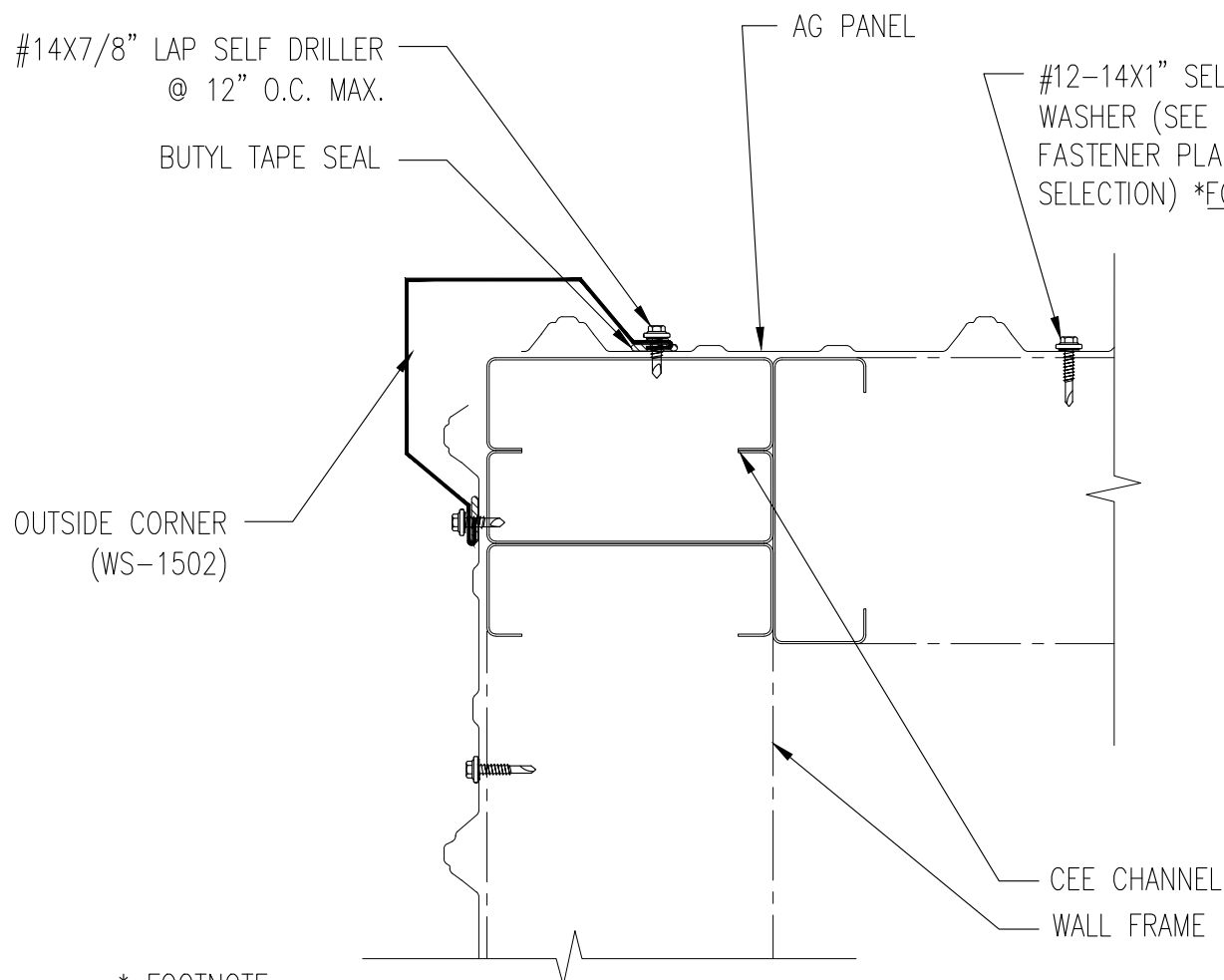
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BASE DETAIL		DATE:
	A	10-28-25
	REV:	
	DETAIL #:	AG-WSD-W17
PANEL TYPE:	AG-Panel	

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



OUTSIDE CORNER
(WS-1502)

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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OUTSIDE CORNER WALL DETAIL

PANEL TYPE:

AG-Panel

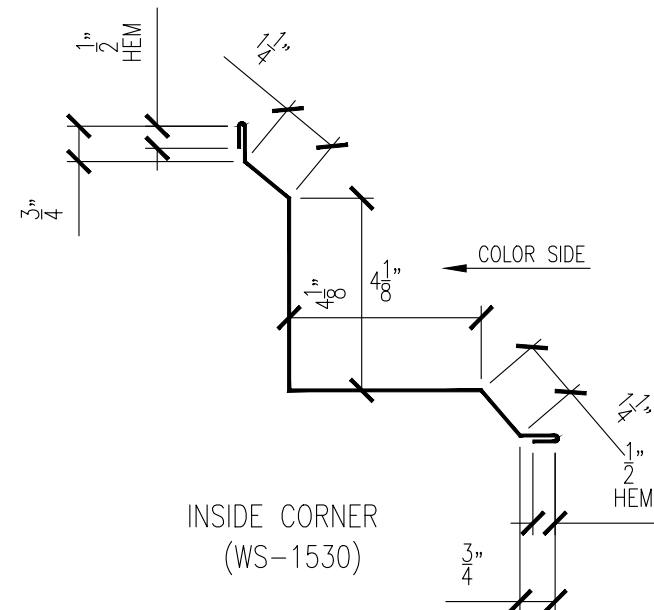
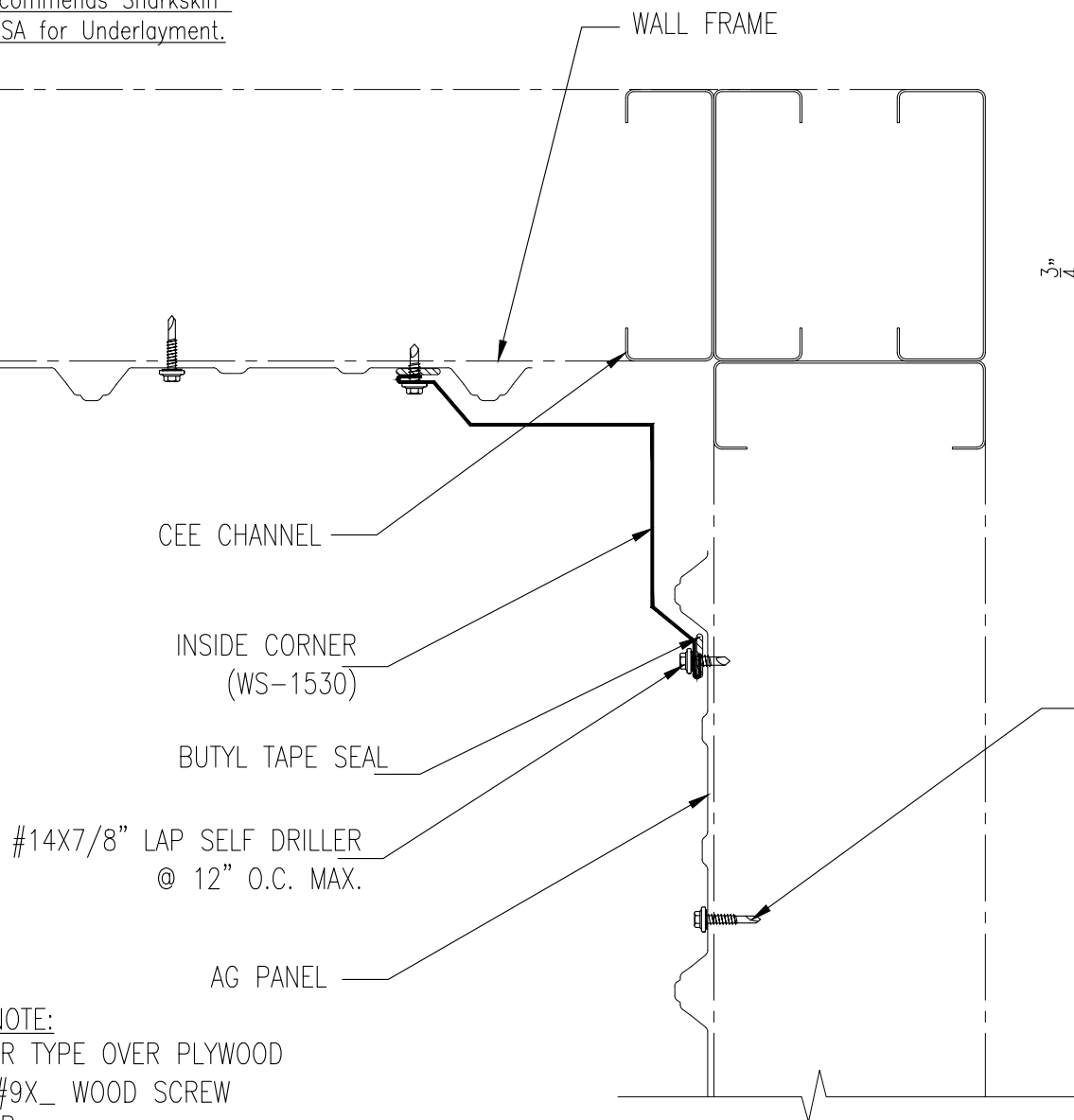
DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-W18

** WSMR Recommends Sharkskin[®]
Ultra SA for Underlayment.



#12-14X1" SELF DRILLER W/
WASHER (SEE PAGE 3 & 4 FOR
FASTENER PLACEMENT AND
SELECTION) *FOOTNOTE

* FOOTNOTE:
FASTENER TYPE OVER PLYWOOD
TO BE #9X_ WOOD SCREW
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	



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INSIDE CORNER WALL DETAIL

PANEL TYPE:

AG-Panel

DATE:

A 10-28-25

REV:

DETAIL #:
AG-WSD-W19

[illegible]

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PANEL TYPE:

	DATE:
A	10-28-25
REV:	
DETAIL #:	
AG-WSD-MN19	

CUSTOM TRIM

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
CUSTOM TRIM NAME: _____	DATE: _____
	A 10-28-25
PANEL TYPE: _____	REV: _____
AG-Panel	DETAIL #: AG-WSD-CT20



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Western States "AG" Panel

Installation, Flashings & Shop Drawing Detail Guide

Special Design Considerations

The details contained in this guide are proven industry details and are intended to be used as a design aid and installation guide. It does not depict all situations that may be encountered on all projects. Modifications are the responsibility of the designer/ owner/ installer.

Consideration should be given for Fit for Purpose, Building use, Climate conditions such as temperature, snow, wind, and moisture, Governing Building Codes, and Maintenance.

It is highly recommended that all trims and flashings be of the same material as the panels (metal, gauge, finish) to ensure long term performance and durability. Where possible, flashing edges should be hemmed to strengthen the edge and protect the cut edge from exposure.

Acceptance

Use of this manual is strictly voluntary. Details that are provided are to be used as a guide only. Details may not be applicable for all situations. This guide provides one standard detail and WSDI accepts that other installation details may be needed and other details may exist. WSDI makes no guarantee as to the Weather Tightness of the system or details found with in this guide. The information in this manual is believed to be correct and accurate at the time of printing. WSDI reserves the right to change details, discontinue products, change designs at any time without incurring obligation. It is best to consult your Design Engineer for recommendations.

Underlayment

There are many types of underlayment's on the market today. All designed with a special purpose depending on the type of Metal and profile. Many different types of metal will require a different type of underlayment, Metal requires a High Temperature underlayment. It is best to consult your Design Engineer for recommendations. WSMR Recommends the use of Sharkskin SA Ultra for underlayment.

Valley and Snow Design

Valley design and dimension must be the proper width to accommodate high snow, rain, ice, and slope conditions. If possible, splices, penetrations, valleys, roof elevation changes, should be minimized in areas of high snow and ice accumulations. Details found in this manual may not pertain in areas of high snow and ice accumulations.

Panel Coverage and Fastening

Normal panel width of "AG" Panel. However depending on the finish selected and the required coil feed, it may be necessary for WSDI to shorten the width of the panel. Please consult with your WSDI representative for details and fastening recommendations.

Safety and Maintenance

Walking on and installing any roof is dangerous! Extreme care should always be used when walking on roofs. Safety should always be a top priority and approved fall protection and equipment as approved by OSHA should always be used.

No roof is immune to severe weather or is completely maintenance free. To keep your roof performing as it was designed; an inspection and comprehensive maintenance program should be implemented.

Limited Warranty Information

Copies of Limited Warranty can be found on WSMR website www.westernstatesmetalroofing.com WSMR Recommends the use of the Eco Edge Sealer or equal for all exposed cut edges. Limited Warranty will not cover Failures or damages resulting from edge corrosion.

WESTERN STATES METAL ROOFING



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www.metalforroofing.com