



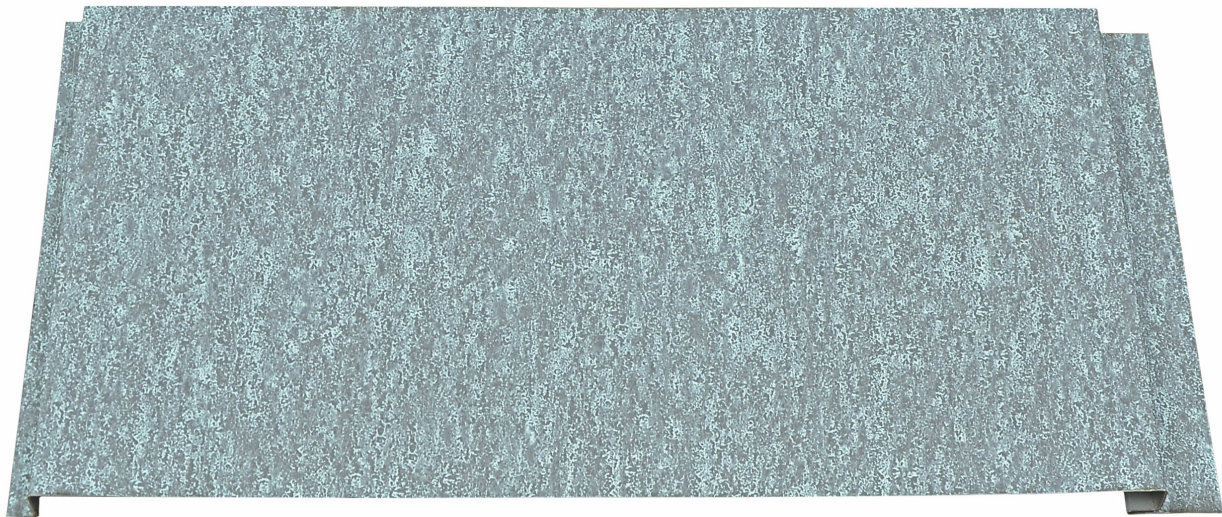
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# WESTERN STATES METAL ROOFING

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## T-GROOVE®

### INSTALLATION GUIDE WITH TRIM, FLASHINGS AND DETAILS



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## Western States T-Groove® Wall and Soffit Panels

Installation, Flashings & Shop Drawing Detail Guide

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## **Western States T-Groove® 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**

T-Groove® panels are used over all type of substrates like Steel Framing, open purlins, spaced sheathing, and wood surface such as plywood. Most details in this guide are shown with panels attached to Solid Wood Decking.

#### **Note on Underlayment**

Not all conditions require an underlayment, However metal siding is susceptible to Condensation and it is recommended that an appropriate 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 Sharkskin® Ultra and Sharkskin® Ultra SA.

#### **Technical Assistance**

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

#### **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 resource for working with sheet metal.

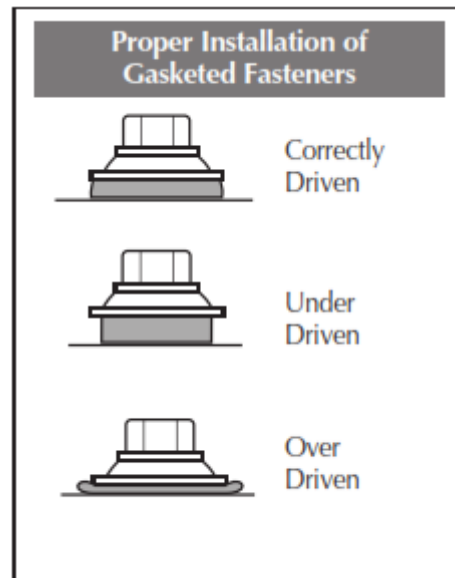
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Installation, Flashings & Shop Drawing Detail Guide

**Fastener Selection**

**Notes to Installers:**

Fastener Selection will vary depending on type and thickness of substrate.  
Design Calculations for clip spacing should be completed by the design engineer.  
The use of Butyl tape mastic, Butyl sealants and Curing Sealants is always recommended to insure weather tight installation.  
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 clip attachment screws must be long enough to fully penetrate through roof deck substrate or penetrate solid lumber at least one inch.

Exposed Trim 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.



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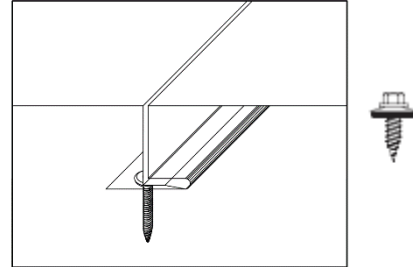
**Fastener Selection**

Description

Application

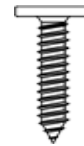
14 x 7/8" Lap Self tap  
 14 x 7/8 Lap Stainless

Used to attach Trims .  
 Stainless to be used with  
 A606-4 Steel



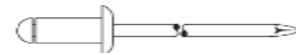
#10-12 x1" Pancake head  
 Wood  
 #10-12 x 1" SD PH Self Driller  
 Steel

Used to attach Panel clips.  
 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.

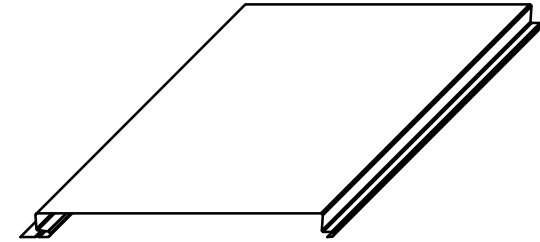
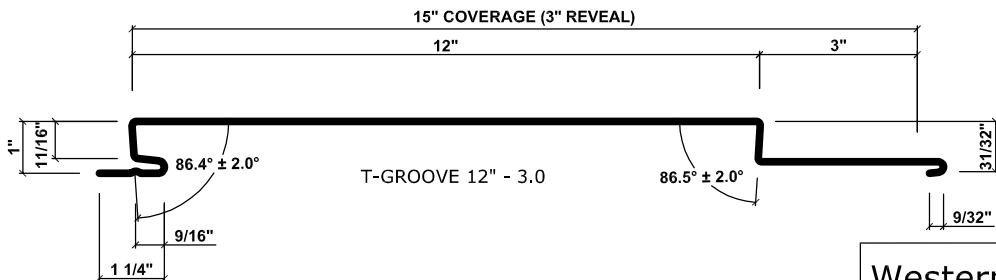
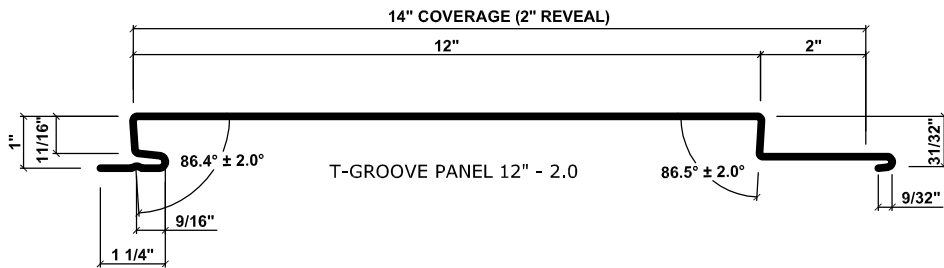
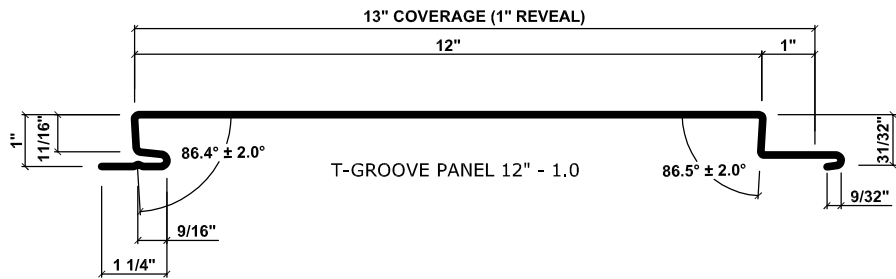
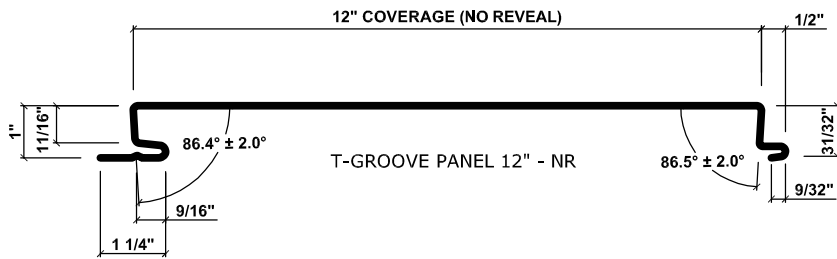


Stainless Screws  
 #10 x1 x1/4" Wood Drillers  
 #10 x 1.5 x 1/4"  
 #10 x 2" x 1/4"

Used for panel attachment  
 for panels made with  
 A606-4 Steel



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



T-GROOVE PANEL	FACE	REVEAL	COVERAGE
T-GROOVE PANEL 12" - NR	12"	NR	12"
T-GROOVE PANEL 12" - 1.0	12"	1"	13"
T-GROOVE PANEL 12" - 2.0	12"	2"	14"
T-GROOVE PANEL 12" - 3.0	12"	3"	15"

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T-GROOVE® - 12" FACE

PRODUCT / PRODUCT LINE

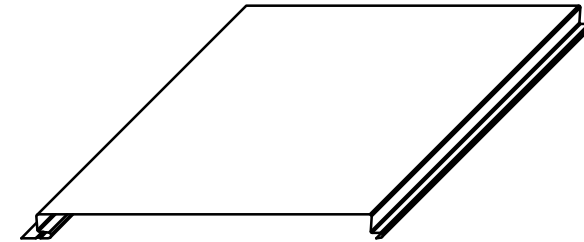
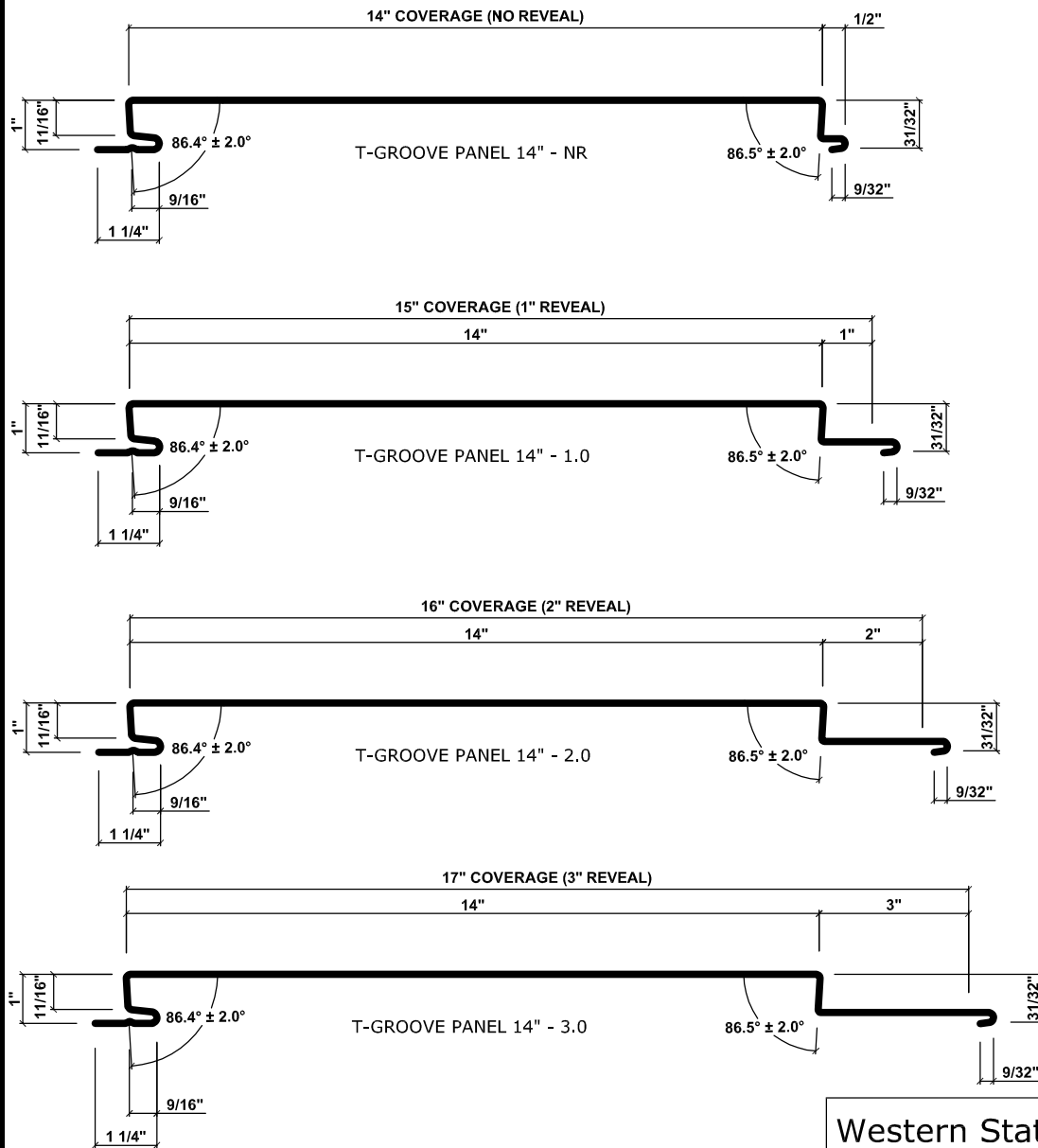
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T-GROOVE PANEL	FACE	REVEAL	COVERAGE
T-GROOVE PANEL 14" - NR	14"	NR	14"
T-GROOVE PANEL 14" - 1.0	14"	1"	15"
T-GROOVE PANEL 14" - 2.0	14"	2"	16"
T-GROOVE PANEL 14" - 3.0	14"	3"	17"

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T-GROOVE®- 14" FACE

PRODUCT / PRODUCT LINE

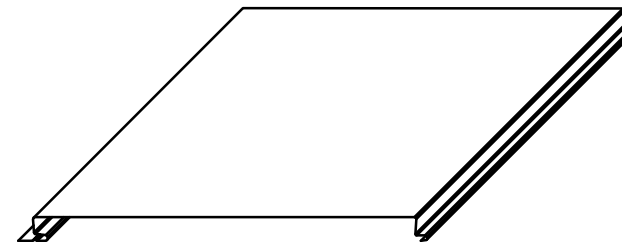
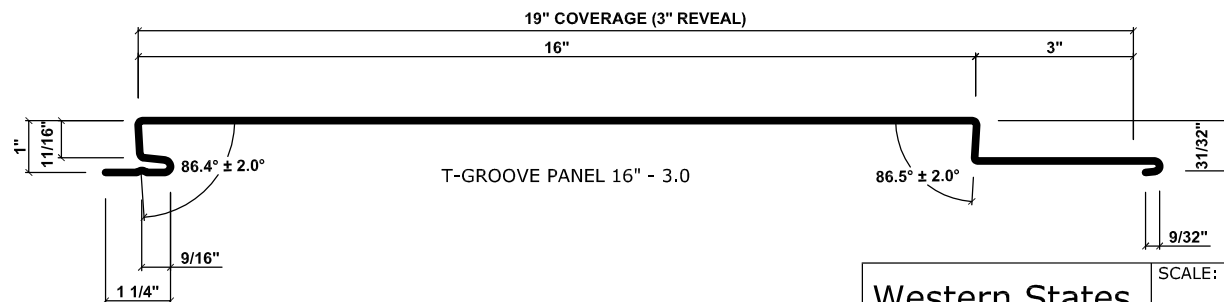
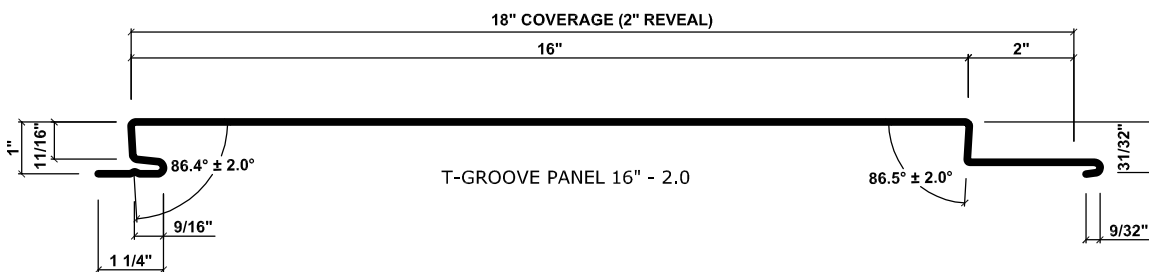
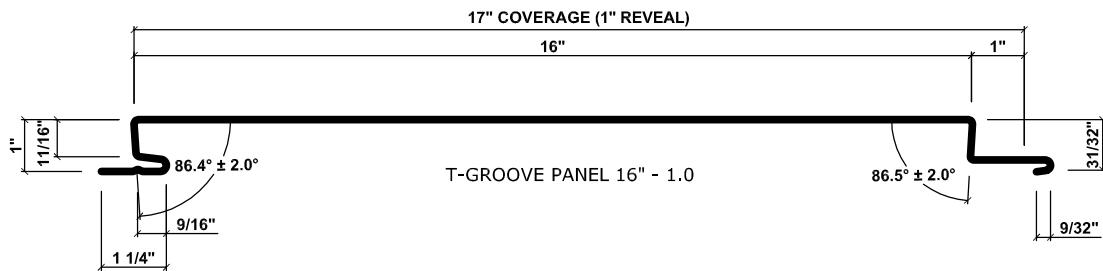
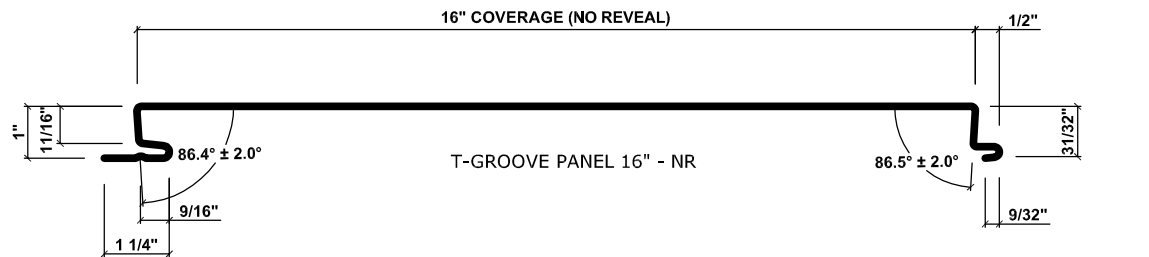
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T-GROOVE PANEL	FACE	REVEAL	COVERAGE
T-GROOVE PANEL 16" - NR	16"	NR	16"
T-GROOVE PANEL 16" - 1.0	16"	1"	17"
T-GROOVE PANEL 16" - 2.0	16"	2"	18"
T-GROOVE PANEL 16" - 3.0	16"	3"	19"

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T-GROOVE® - 16" FACE

PRODUCT / PRODUCT LINE

T-GROOVE®

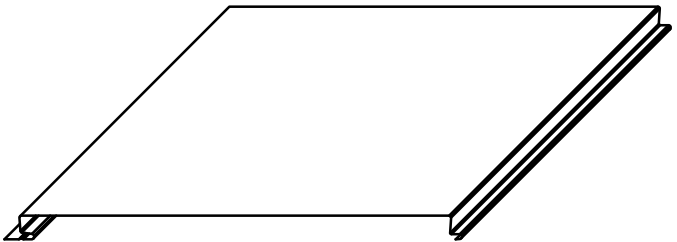
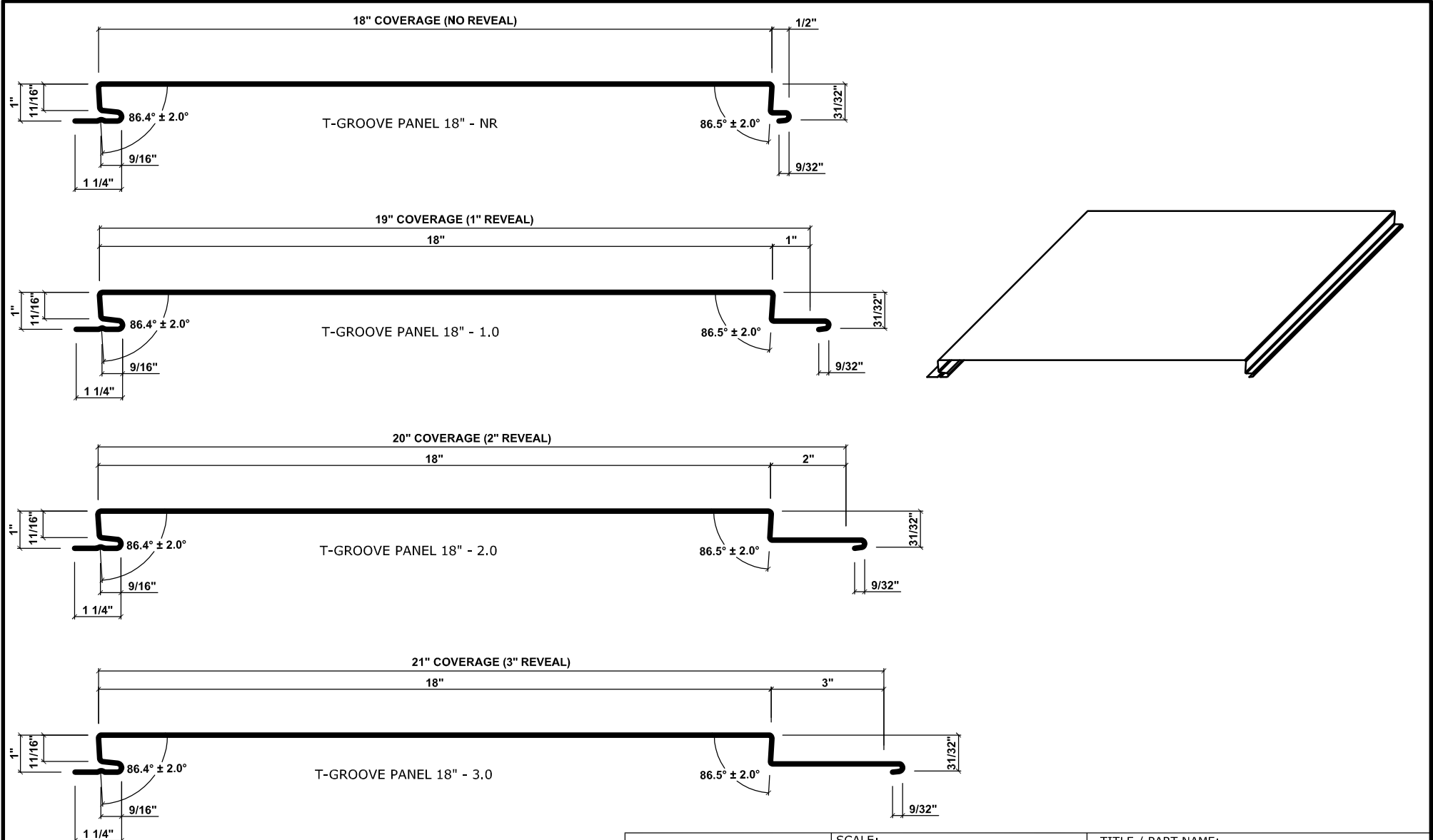
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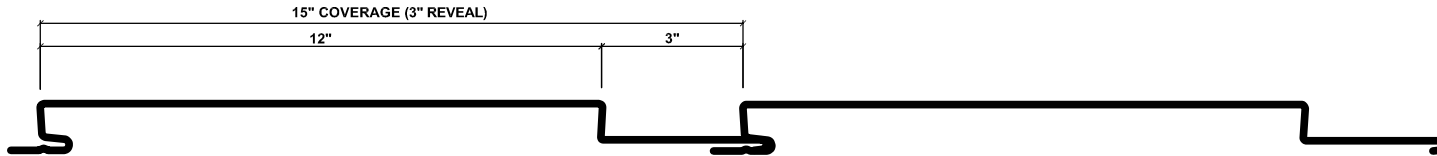




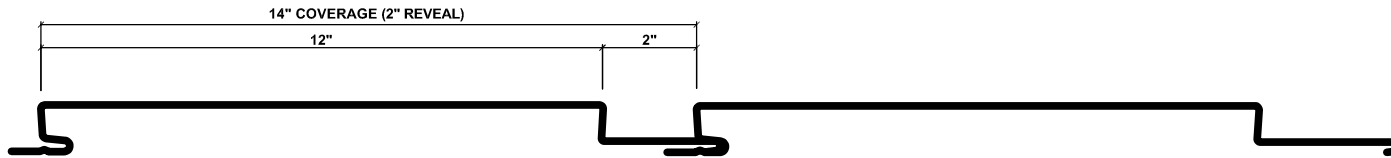
T-GROOVE PANEL	FACE	REVEAL	COVERAGE
T-GROOVE PANEL 18" - NR	18"	NR	18"
T-GROOVE PANEL 18" - 1.0	18"	1"	19"
T-GROOVE PANEL 18" - 2.0	18"	2"	20"
T-GROOVE PANEL 18" - 3.0	18"	3"	21"

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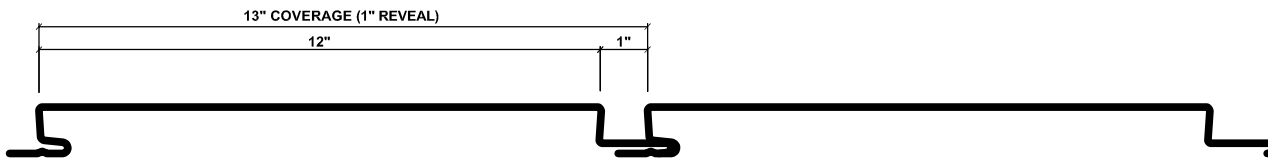
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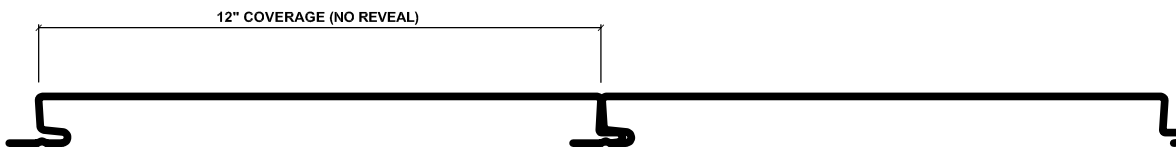
T-GROOVE PANEL 12" - 3.0



T-GROOVE PANEL 12" - 2.0



T-GROOVE PANEL 12" - 1.0



T-GROOVE PANEL 12" - NR

T-GROOVE PANEL	FACE	REVEAL	COVERAGE
T-GROOVE PANEL 12" - NR	12"	NR	12"
T-GROOVE PANEL 12" - 1.0	12"	1"	13"
T-GROOVE PANEL 12" - 2.0	12"	2"	14"
T-GROOVE PANEL 12" - 3.0	12"	3"	15"

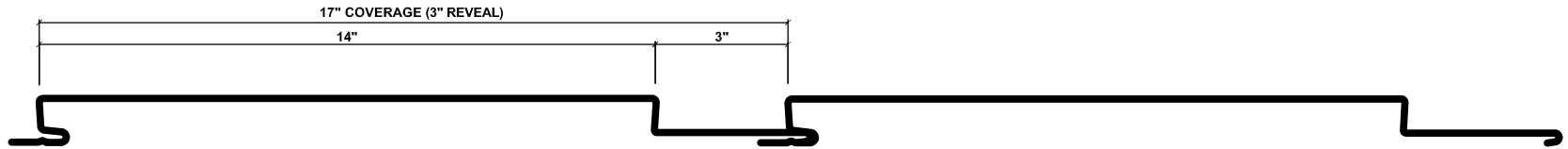
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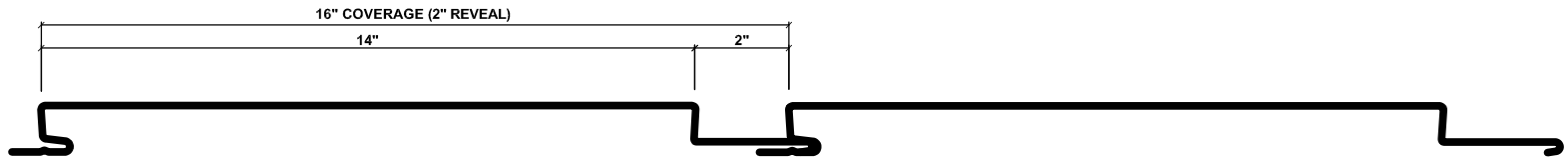
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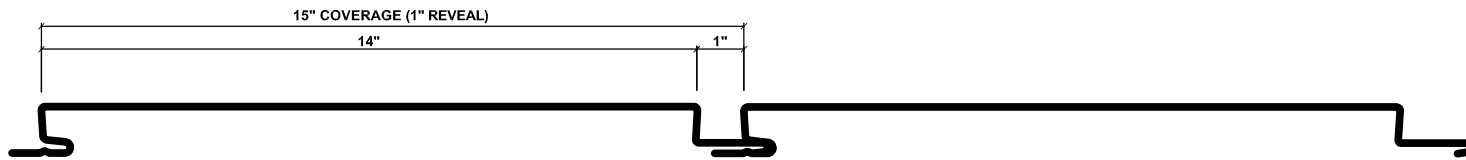
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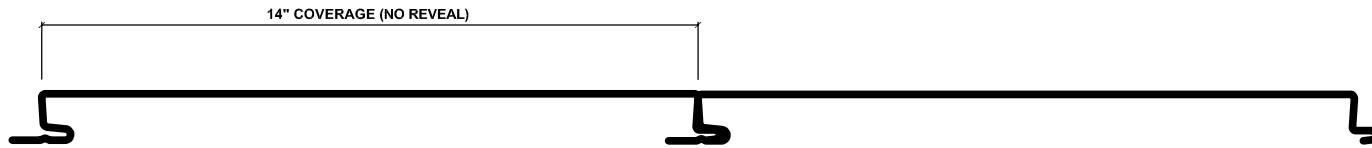
T-GROOVE PANEL 14" - 3.0



T-GROOVE PANEL 14" - 2.0



T-GROOVE PANEL 14" - 1.0



T-GROOVE PANEL 14" - NR

T-GROOVE PANEL	FACE	REVEAL	COVERAGE
T-GROOVE PANEL 14" - NR	14"	NR	14"
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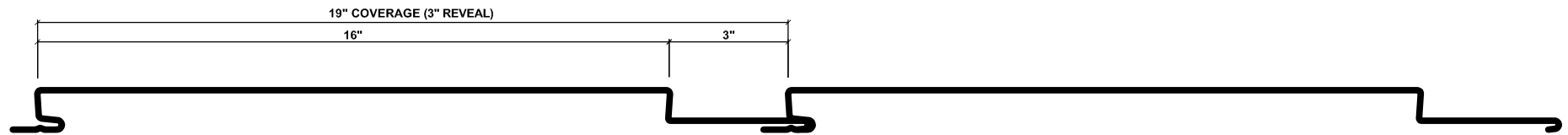
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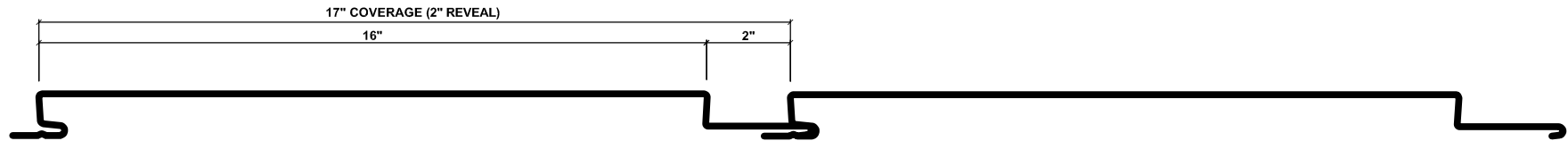
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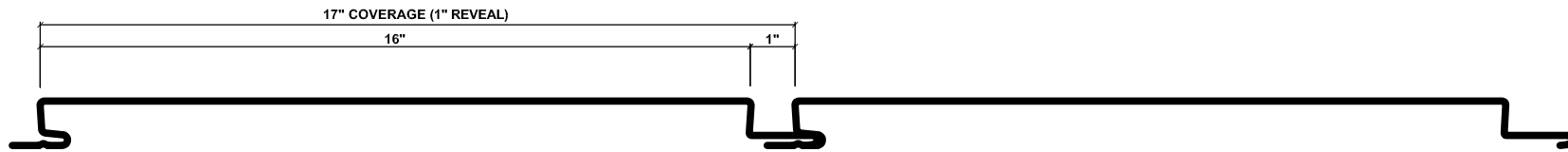
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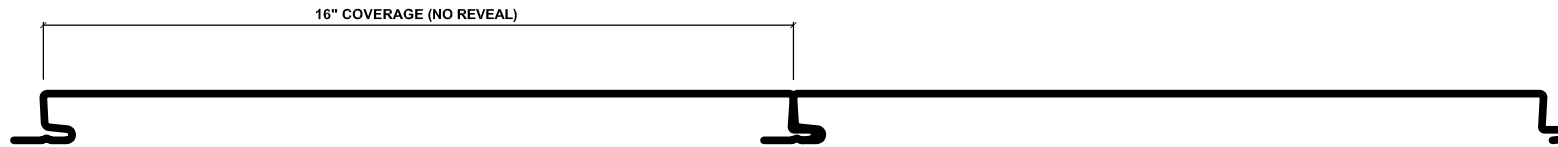
T-GROOVE PANEL 16" - 3.0



T-GROOVE PANEL 16" - 2.0



T-GROOVE PANEL 16" - 1.0



T-GROOVE PANEL 16" - NR

T-GROOVE PANEL	FACE	REVEAL	COVERAGE
T-GROOVE PANEL 16" - NR	16"	NR	16"
T-GROOVE PANEL 16" - 1.0	16"	1"	17"
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T-GROOVE PANEL 16" - 3.0	16"	3"	19"

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21" COVERAGE (3" REVEAL)

18"

3"

T-GROOVE PANEL 18" - 3.0

20" COVERAGE (2" REVEAL)

18"

2"

T-GROOVE PANEL 18" - 2.0

19" COVERAGE (1" REVEAL)

18"

1"

T-GROOVE PANEL 18" - 1.0

18" COVERAGE (NO REVEAL)

T-GROOVE PANEL 18" - NR

T-GROOVE PANEL	FACE	REVEAL	COVERAGE
T-GROOVE PANEL 18" - NR	18"	NR	18"
T-GROOVE PANEL 18" - 1.0	18"	1"	19"
T-GROOVE PANEL 18" - 2.0	18"	2"	20"
T-GROOVE PANEL 18" - 3.0	18"	3"	21"

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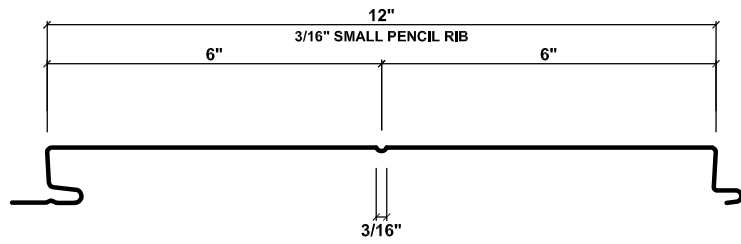
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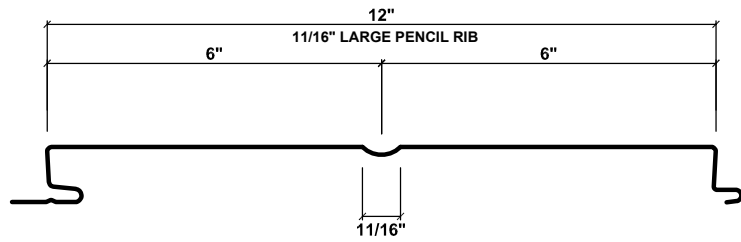
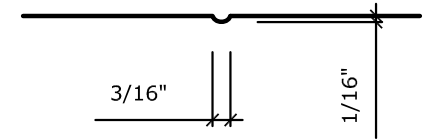
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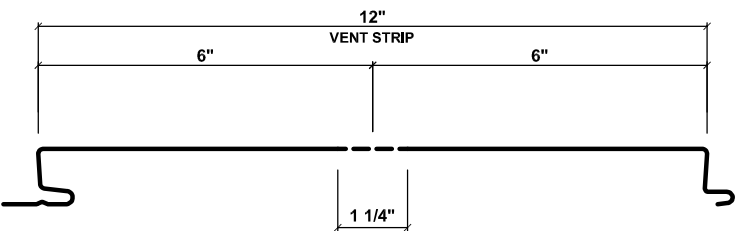
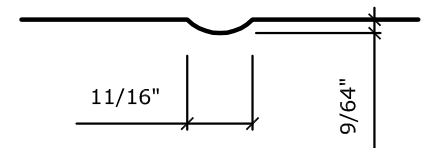
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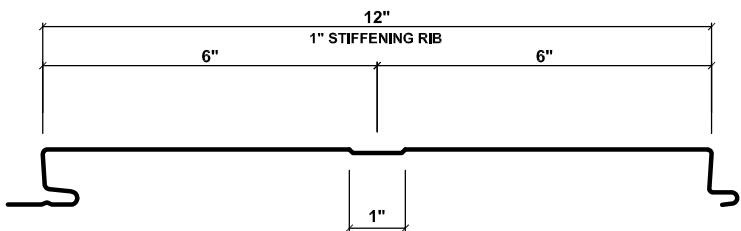
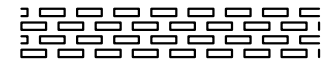
SMALL PENCIL RIB



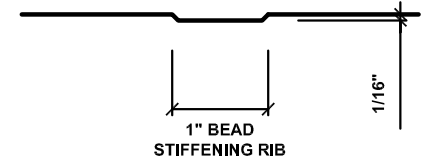
LARGE PENCIL RIB



SINGLE PERFORATION VENT STRIP



BEAD



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STIFFENING RIBS

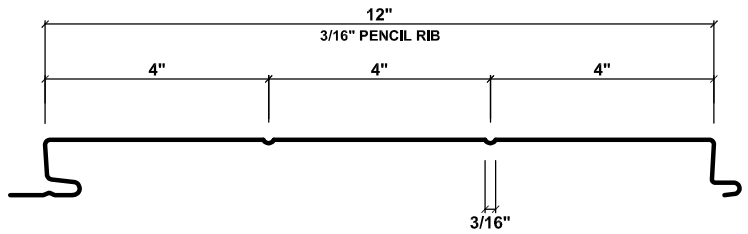
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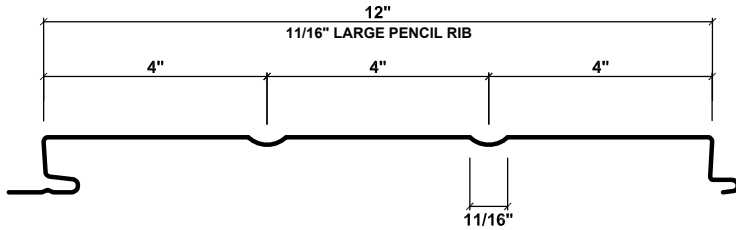
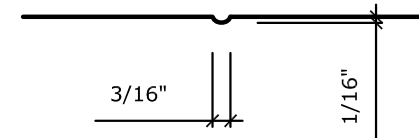
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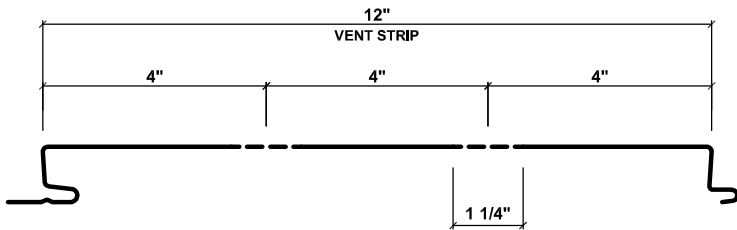
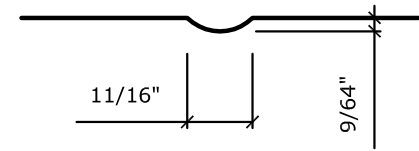
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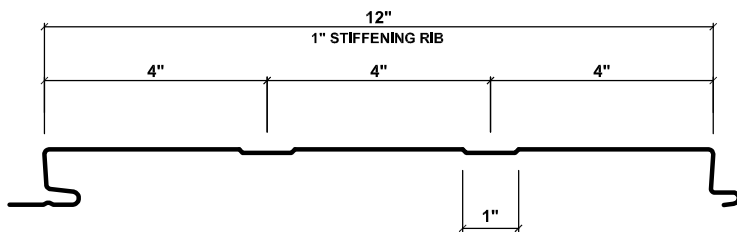
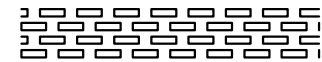
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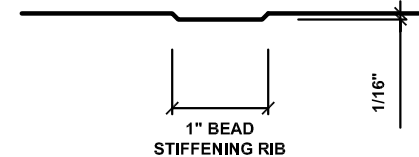
LARGE PENCIL RIB



SINGLE PERFORATION VENT STRIP



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Metal Roofing

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DATE: 5/15/22

901 W. Watkins St.  
Phoenix, AZ 85007

TITLE / PART NAME:

STIFFENING RIBS

PRODUCT / PRODUCT LINE

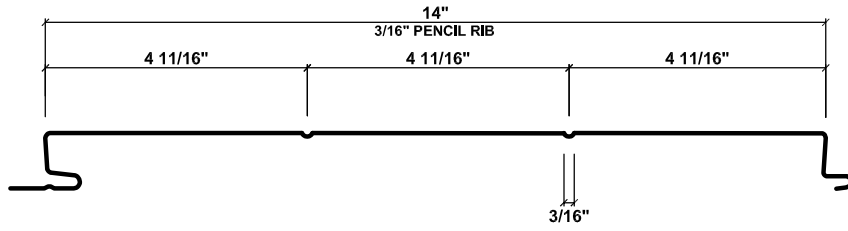
T-GROOVE®

PART I.D.

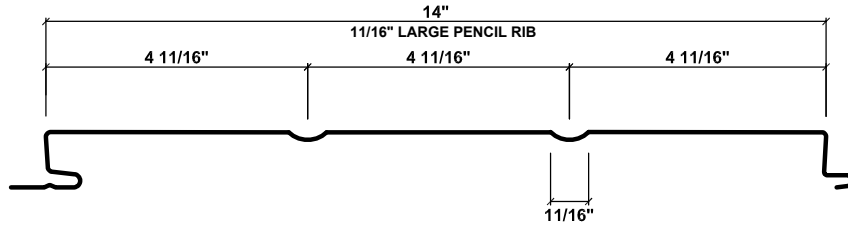
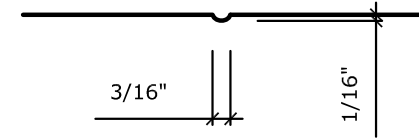
REVISION

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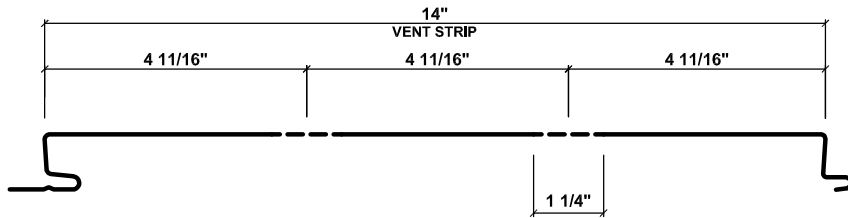
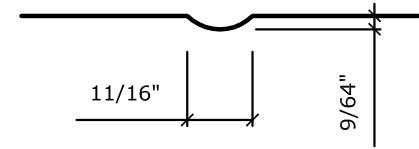
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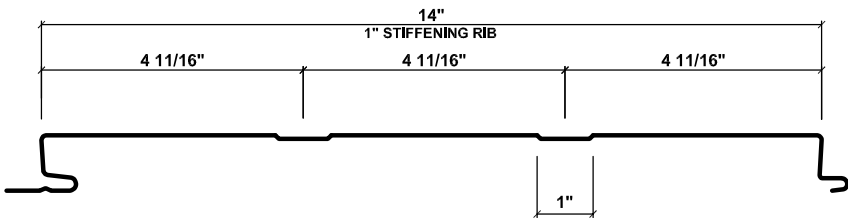
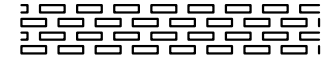
SMALL PENCIL RIB



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PRODUCT / PRODUCT LINE

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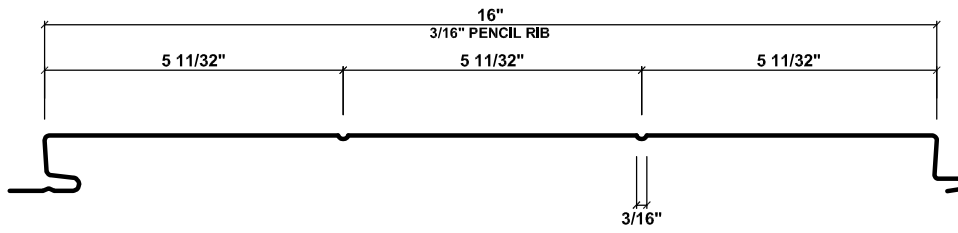
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REVISION

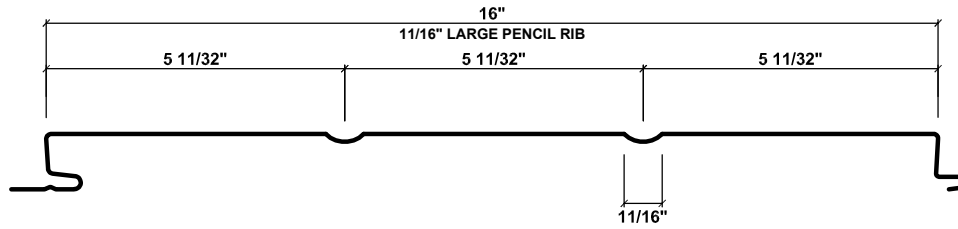
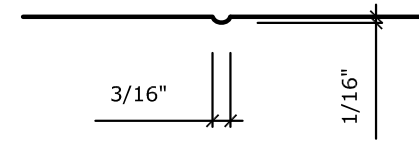
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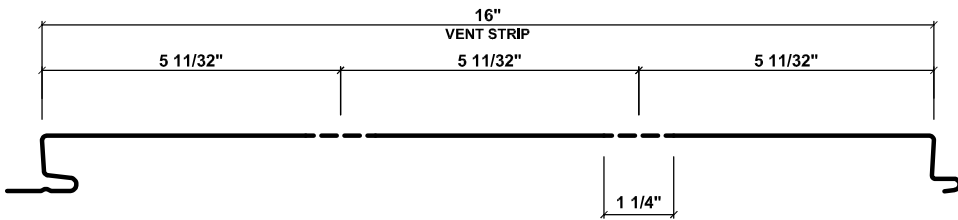
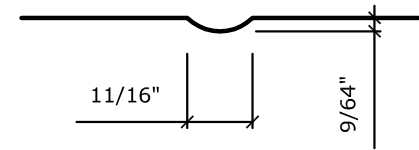




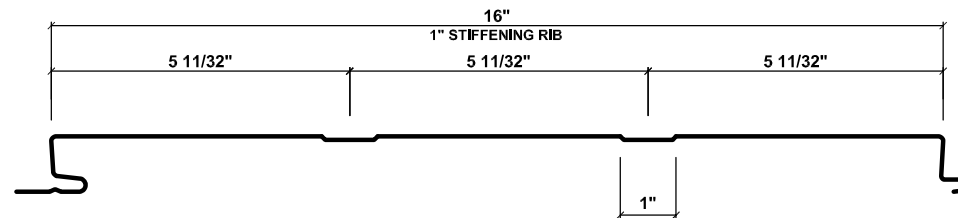
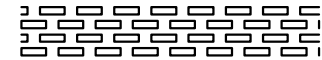
SMALL PENCIL RIB



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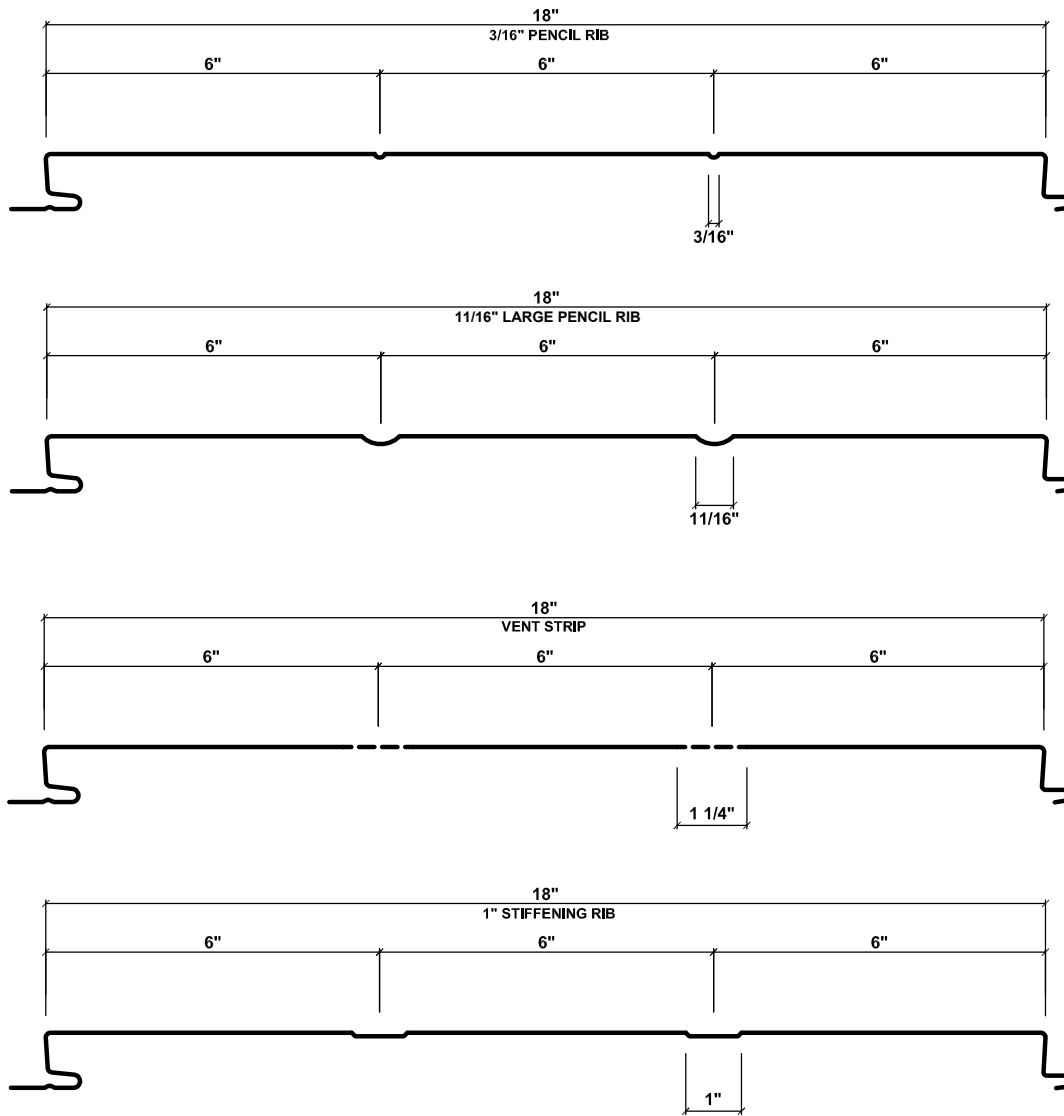
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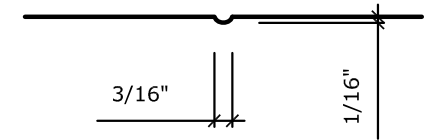
REVISION

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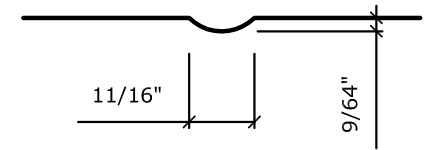
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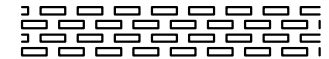
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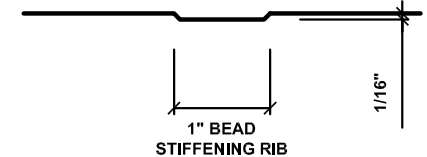
LARGE PENCIL RIB



SINGLE PERFORATION VENT STRIP

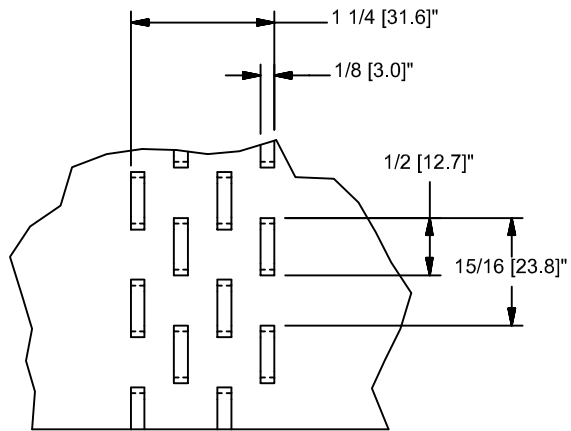


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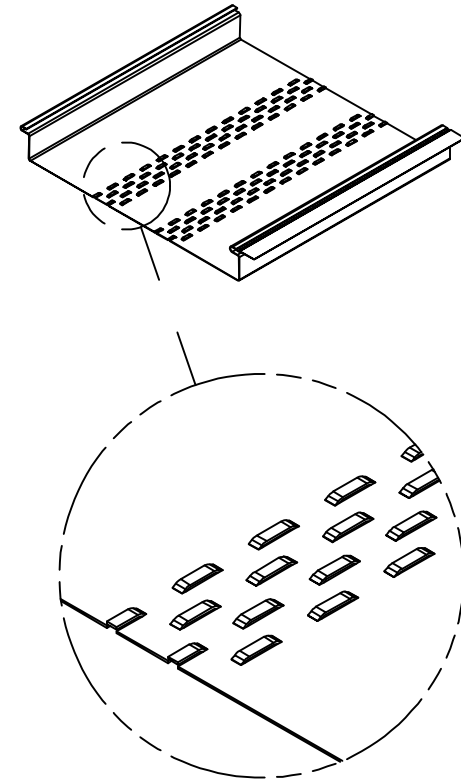
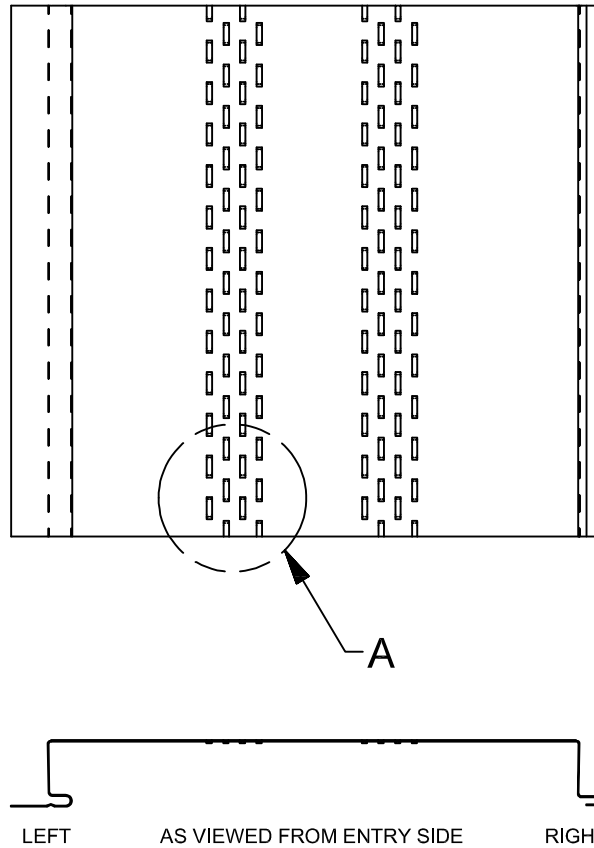


Western States Metal Roofing	SCALE:	TITLE / PART NAME:		
	DRAWN:	STIFFENING RIBS		
901 W. Watkins St. Phoenix, AZ 85007	DATE:	PRODUCT / PRODUCT LINE		
	CHECKED:	T-GROOVE <sup>®</sup>		
	DATE: 5/15/22	PART I.D.	REVISION	SHEET

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DETAIL A



NOTES:

1. MATERIAL USAGE APPROXIMATELY: 5" [127 mm]
2. WHEN USING PERFORATOR:  
 MAXIMUM NET FREE AREA = 3.08  
 SQUARE INCHES PER 12 INCHES  
 OF PERFORATION  
 [1987 sq. mm / 304.8 mm]
3. MAXIMUM OF TWO PERFORATIONS  
 PER PANEL.
4. DUAL DIMENSIONS: Inch [mm]

OPENING SIZE .50 [12.7] X .12 [3.0] = .06 SQ. IN. [38.7 sq. mm]  
 OPENINGS PER 12 INCH LENGTH [304.8 mm] = 51.25  
 NET FREE AREA / 12 INCH = .06 SQ IN X 51.25 = 3.08 SQ IN.  
 [net free area / 304.8 mm = 38.7 sq. mm X 51.25 = 1983 sq. mm]

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Metal Roofing

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DRAWN:

DATE:

CHECKED:

DATE: 5/15/22

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TITLE / PART NAME:

PRODUCT / PRODUCT LINE

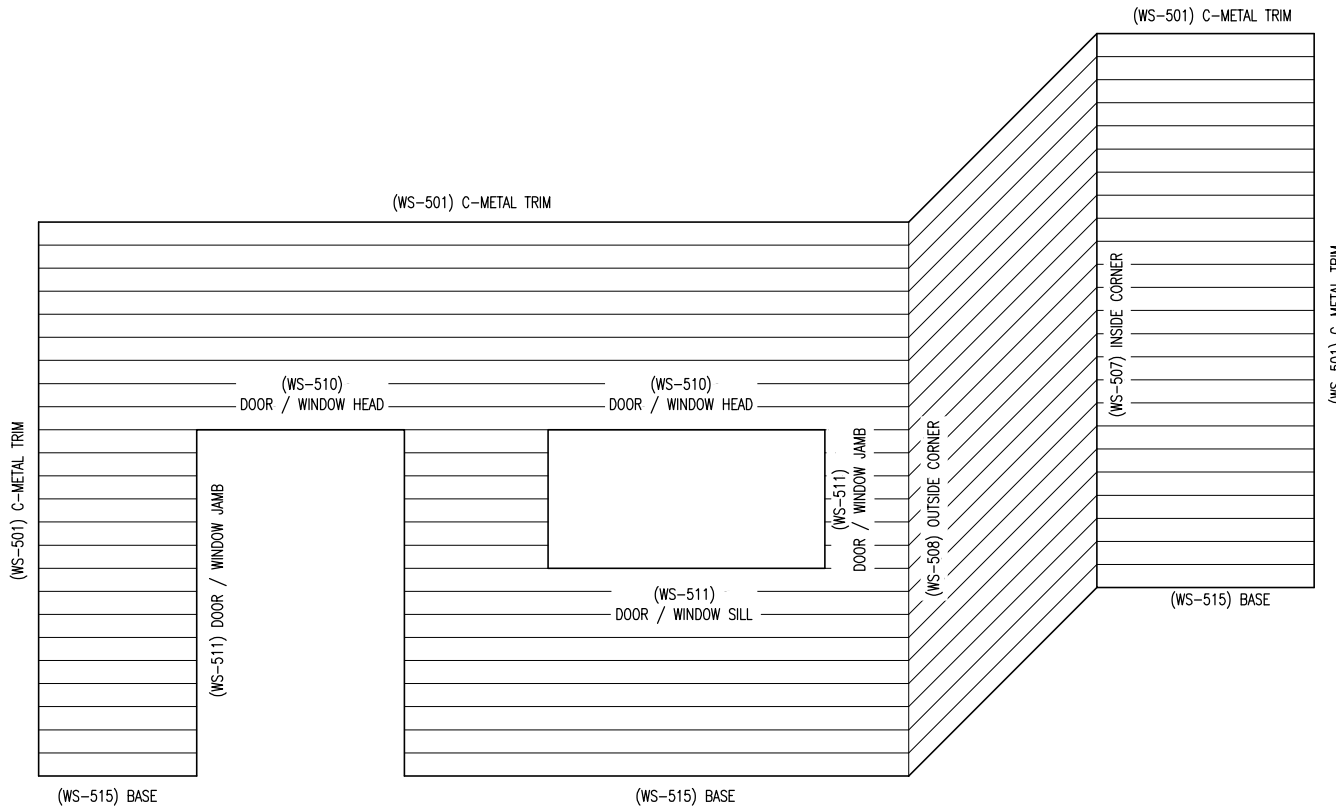
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FLASHING TYPE	DETAIL NO.
END SPLICE	WS-500
C-METAL (J-TRIM)	WS-501
REVEAL FLASHING	WS-502
SILL DRIP TRIM	WS-504
ALTERNATE SILL DRIP	WS-505
Z METAL TRIM	WS-506
INSIDE CORNER TRIM	WS-507
OUTSIDE CORNER TRIM	WS-508
TRANSITION/SILL TRIM	WS-509
DOOR/WINDOW HEAD TRIM	WS-510
DOOR/WINDOW JAMB TRIM	WS-511
PARAPET CAP	WS-512
TRIM CLEAT	WS-513
ALTERNATE WALL TRIM	WS-514
BASE TRIM	WS-515
Z METAL TRIM (SMALL)	WS-516
CUSTOM OUTSIDE CORNER	WS-517
CUSTOM INSIDE CORNER	WS-518

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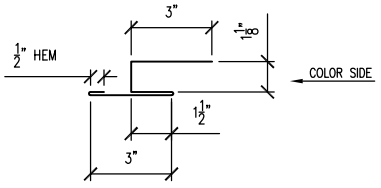
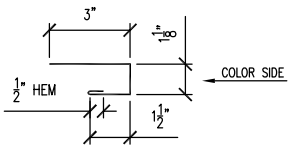
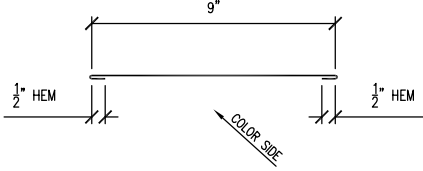
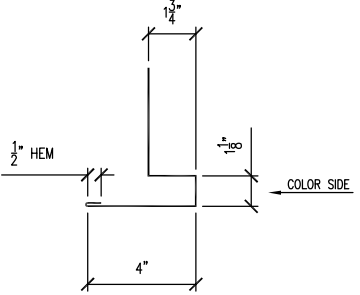
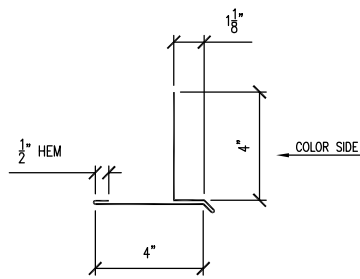
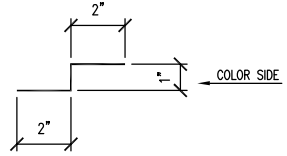
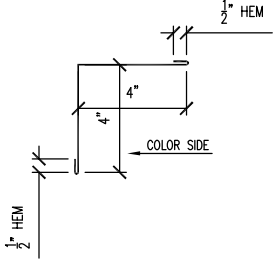
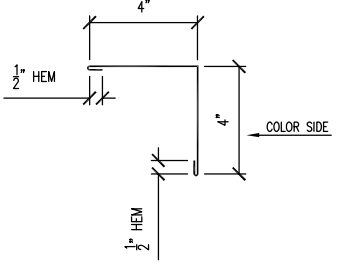
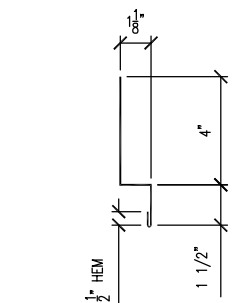
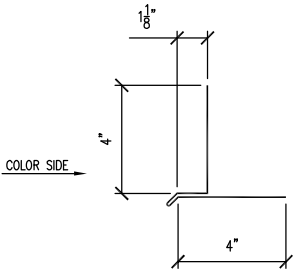
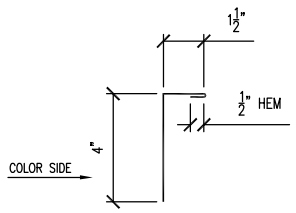
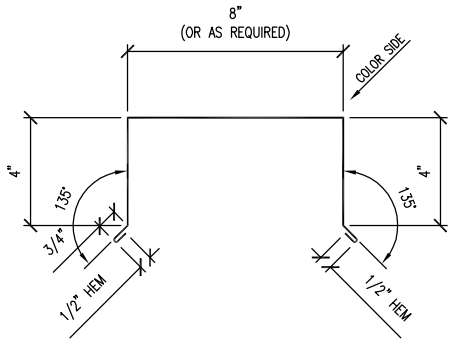
DETAIL:

## KEY WALL PLAN

PANEL TYPE:

**T GROOVE**®

A	5/15/22
REV:	DATE:
DETAIL #:	

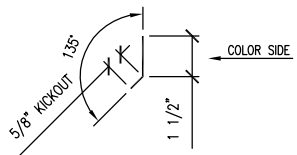
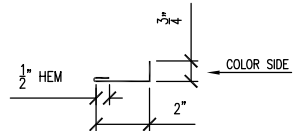
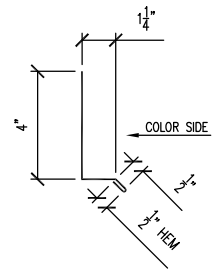
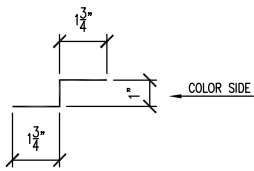
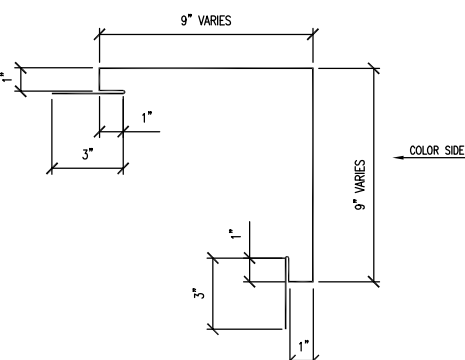
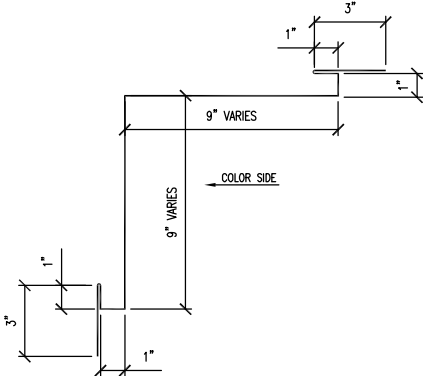
<p><b>END SPLICE WS-500</b></p> 	<p><b>C METAL (J-TRIM) WS-501</b></p> 	<p><b>REVEAL FLASHING WS-502</b></p> 	<p><b>SILL DRIP TRIM WS-504</b></p> 
<p><b>ALTERNATE SILL DRIP TRIM WS-505</b></p> 	<p><b>Z METAL TRIM WS-506</b></p> 	<p><b>INSIDE CORNER TRIM WS-507</b></p> 	<p><b>OUTSIDE CORNER TRIM WS-508</b></p> 
<p><b>TRANSITION/SILL TRIM WS-509</b></p> 	<p><b>DOOR/WINDOW HEAD TRIM WS-510</b></p> 	<p><b>DOOR/WINDOW JAMB TRIM WS-511</b></p> 	<p><b>PARAPET CAP WS-512</b></p> 

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 Fax: (602) 261-7726  
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<p><b>STANDARD TRIM</b></p>		
		<p>A 5/15/22</p>
<p>PANEL TYPE: <b>T GROOVE</b>®</p>		<p>REV: DATE:</p>
		<p>DETAIL #: <b>TG-WSD-ST5</b></p>

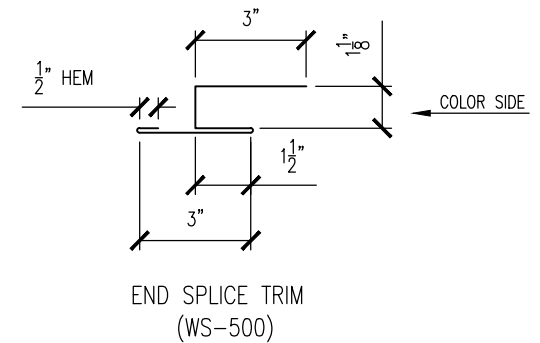
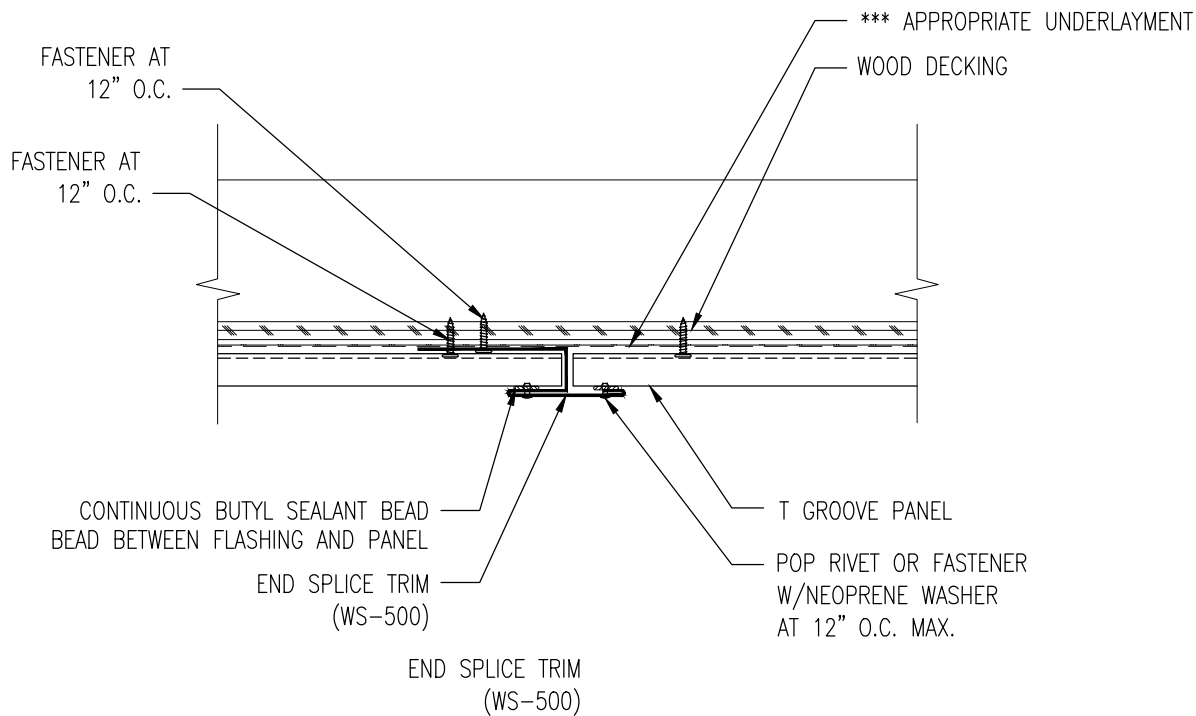
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<p>CUSTOM OUTSIDE CORNER WS-517</p> 	<p>CUSTOM INSIDE CORNER WS-518</p> 		

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PANEL TYPE: T GROOVE®		REV:	DATE:
		DETAIL #: TG-WSD-ST6	



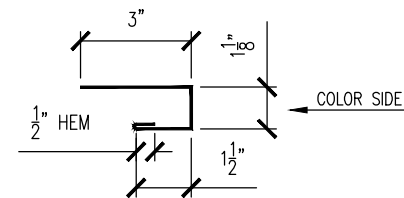
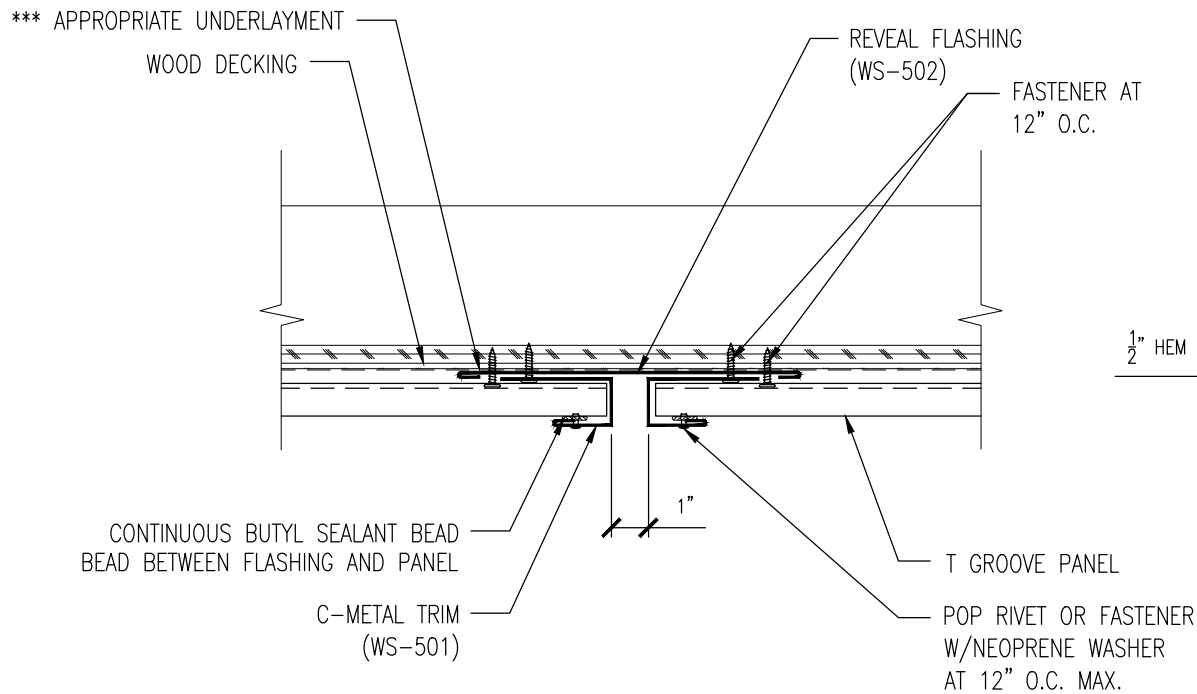
\*\*\* WSMR RECOMMENDS SHARKSKIN® ULTRA OR SHARKSKIN® ULTRA SA

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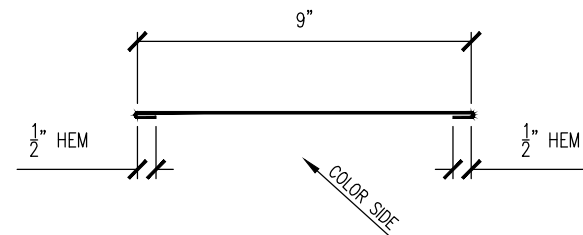
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GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
SOFFIT END SPLICE DETAIL			
		A	5/15/22
PANEL TYPE: T GROOVE®		REV:	DATE:
		DETAIL #: TG-WSD-S1	



C-METAL TRIM  
(WS-501)



REVEAL FLASHING  
(WS-502)

HORIZONTAL WALL INSTALL

\*\*\* WSMR RECOMMENDS SHARKSKIN®ULTRA OR SHARKSKIN®ULTRA SA

GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
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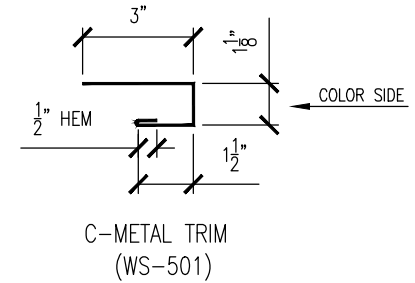
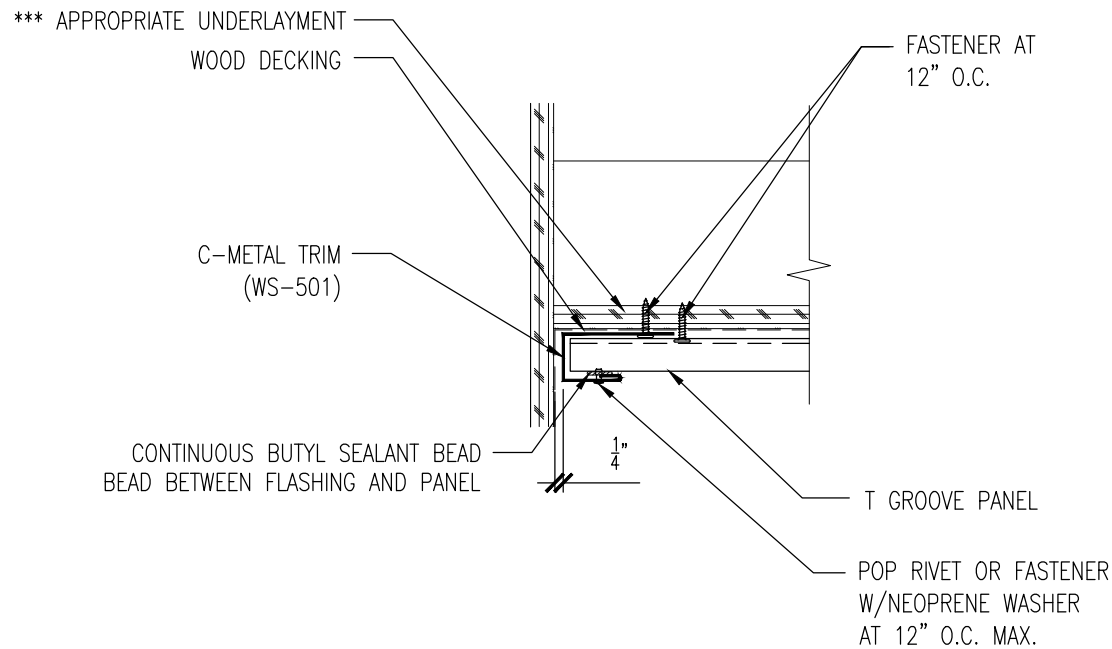
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WALL/SOFFIT END SPLICE DETAIL		
	A	5/15/22
PANEL TYPE: <b>T GROOVE®</b>	REV:	DATE:
	DETAIL #: TG-WSD-SW2	





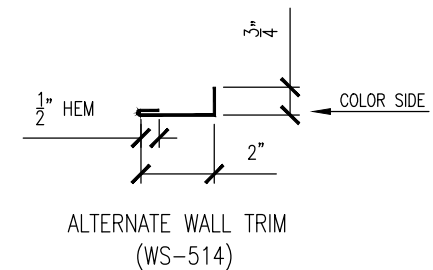
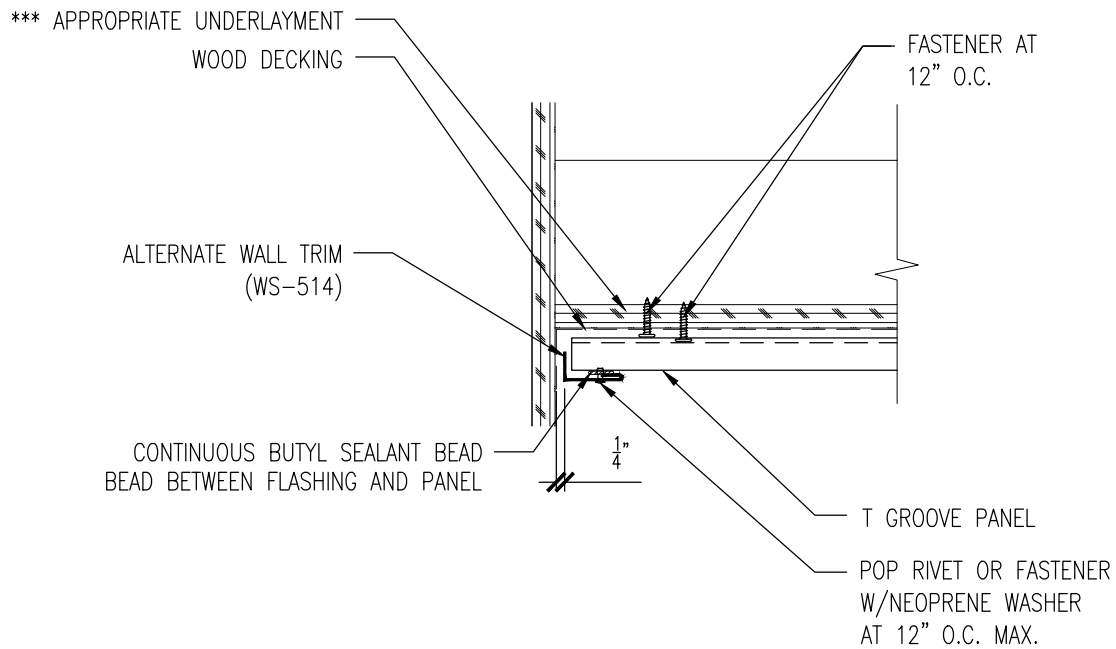
\*\*\* WSMR RECOMMENDS SHARKSKIN® ULTRA OR SHARKSKIN® ULTRA SA

GAUGE: _____	COLOR: _____		
LENGTH: _____	FINISH: _____		
MATERIAL: _____			
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		REV:	DATE:
<b>T GROOVE®</b>		DETAIL #:	
		TG-WSD-S3	

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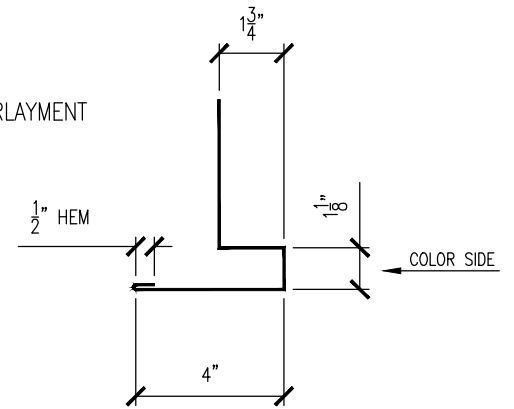
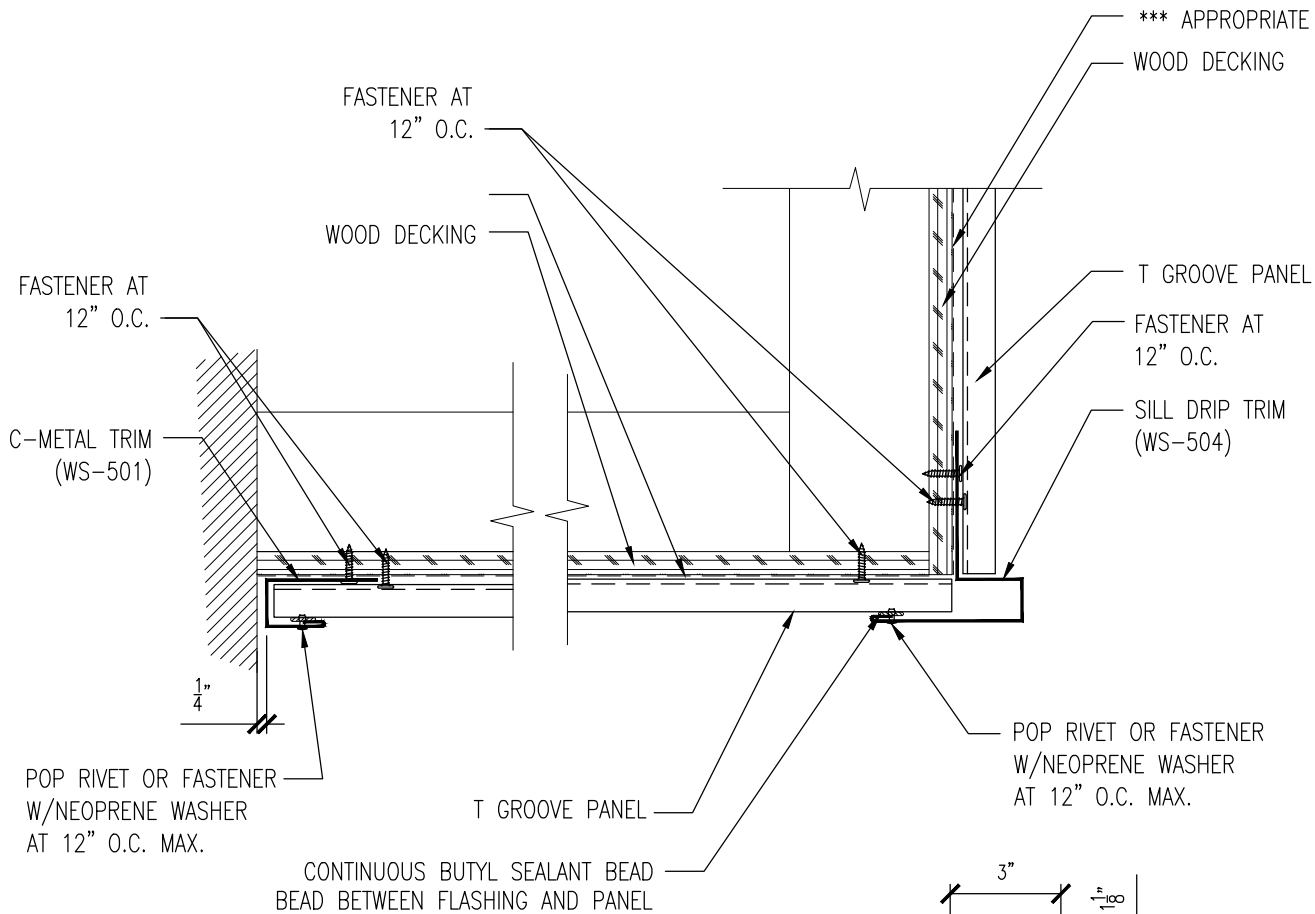
\*\*\* WSMR RECOMMENDS SHARKSKIN®ULTRA OR SHARKSKIN®ULTRA SA

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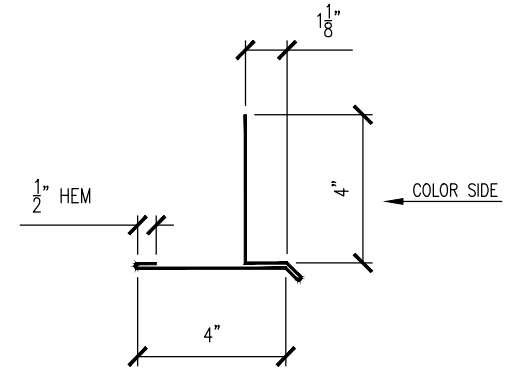
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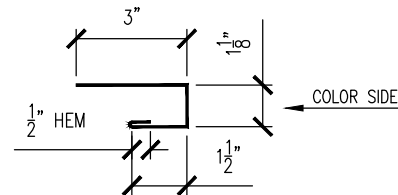
GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
ALTERNATE SOFFIT END WALL DETAIL			
		A	5/15/22
PANEL TYPE: <b>T GROOVE®</b>		REV:	DATE:
		DETAIL #: TG-WSD-SW4	



SILL DRIP TRIM (WS-504)



ALTERNATE SILL DRIP TRIM (WS-505)



C-METAL TRIM (WS-501)

\*\*\* WSMR RECOMMENDS SHARKSKIN® ULTRA OR SHARKSKIN® ULTRA SA

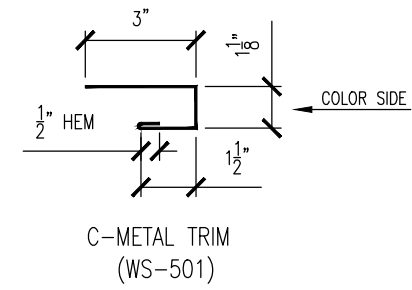
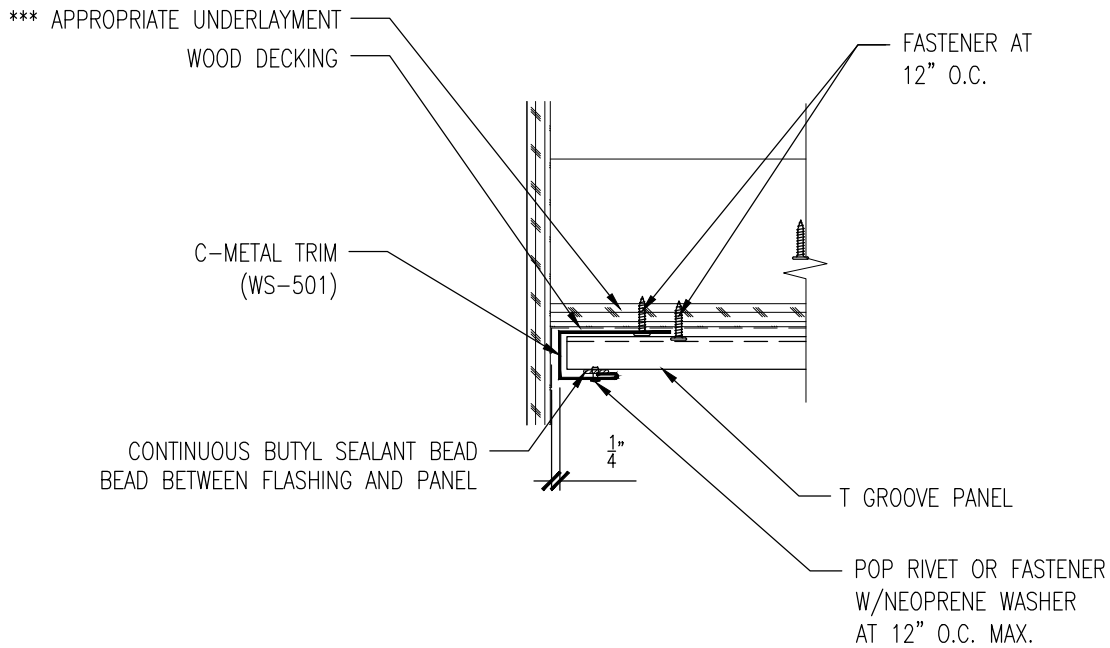
GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

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SOFFIT TO WALL DRIP DETAIL	A	5/15/22
	REV:	DATE:
PANEL TYPE: <b>T GROOVE®</b>	DETAIL #: TG-WSD-SW5	



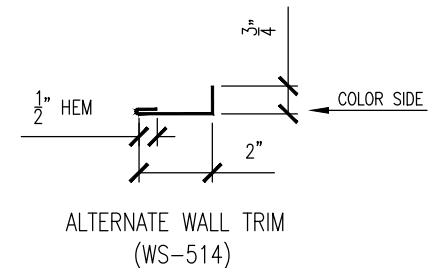
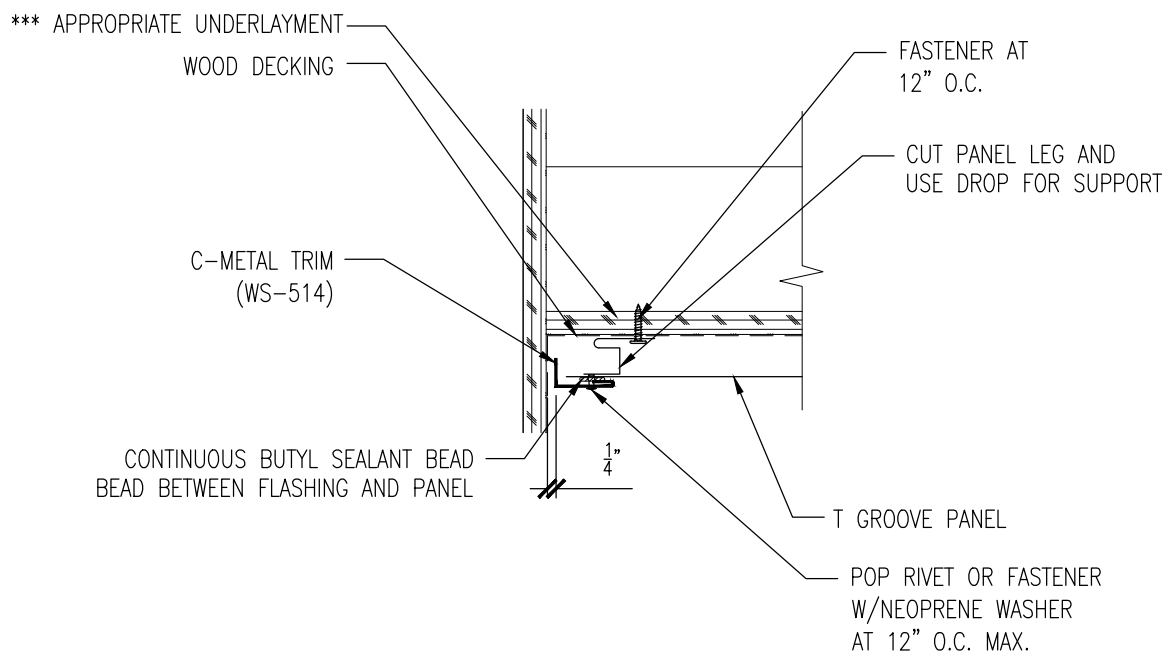
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GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
HORIZONTAL SIDING END WALL DETAIL			
		A	5/15/22
PANEL TYPE: <b>T GROOVE®</b>		REV:	DATE:
		DETAIL #: TG-WSD-W6	



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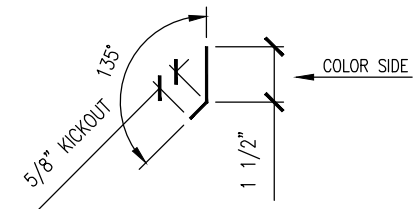
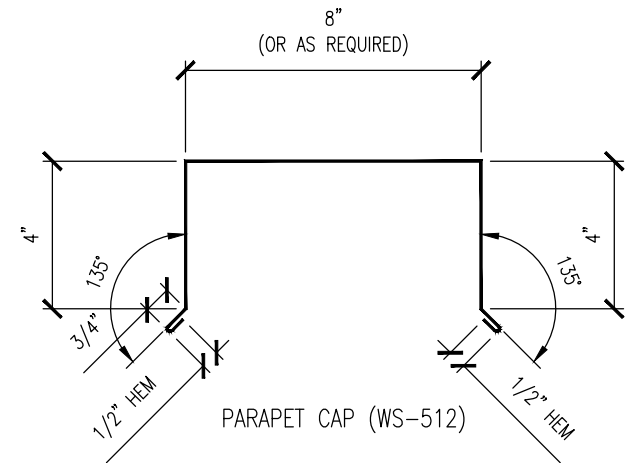
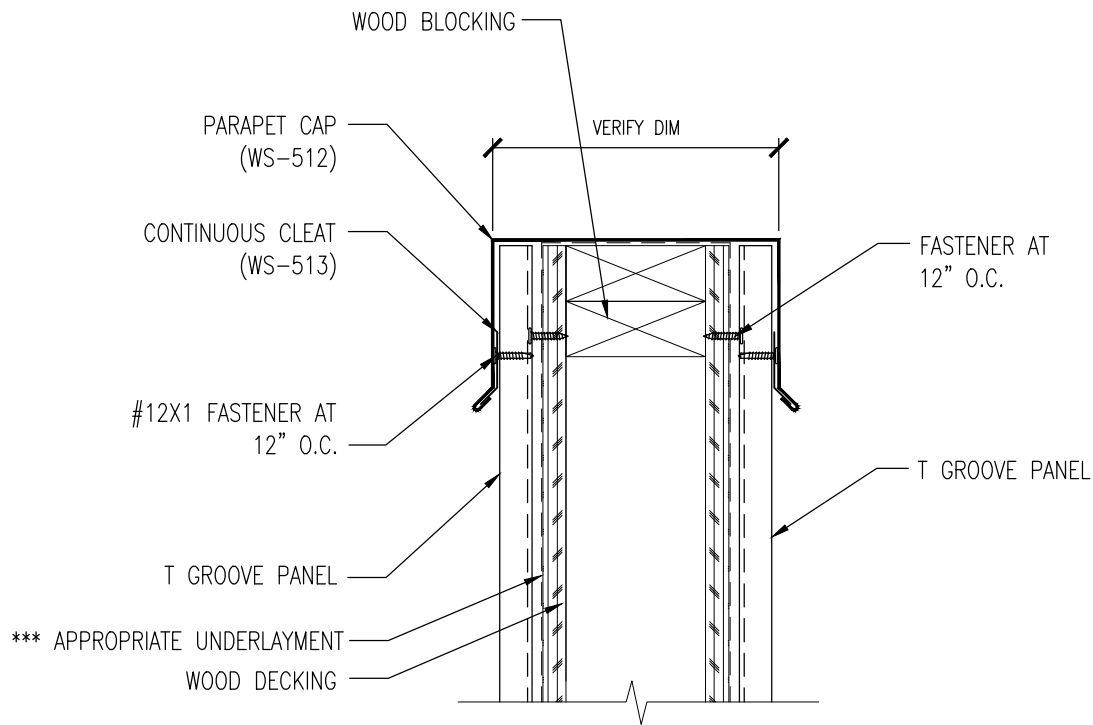
GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

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VERTICAL SIDING END WALL DETAIL		
	A	5/15/22
PANEL TYPE: T GROOVE®	REV:	DATE:
	DETAIL #: TG-WSD-SW7	



CONTINUOUS CLEAT (WS-513)

VERTICAL WALL INSTALL

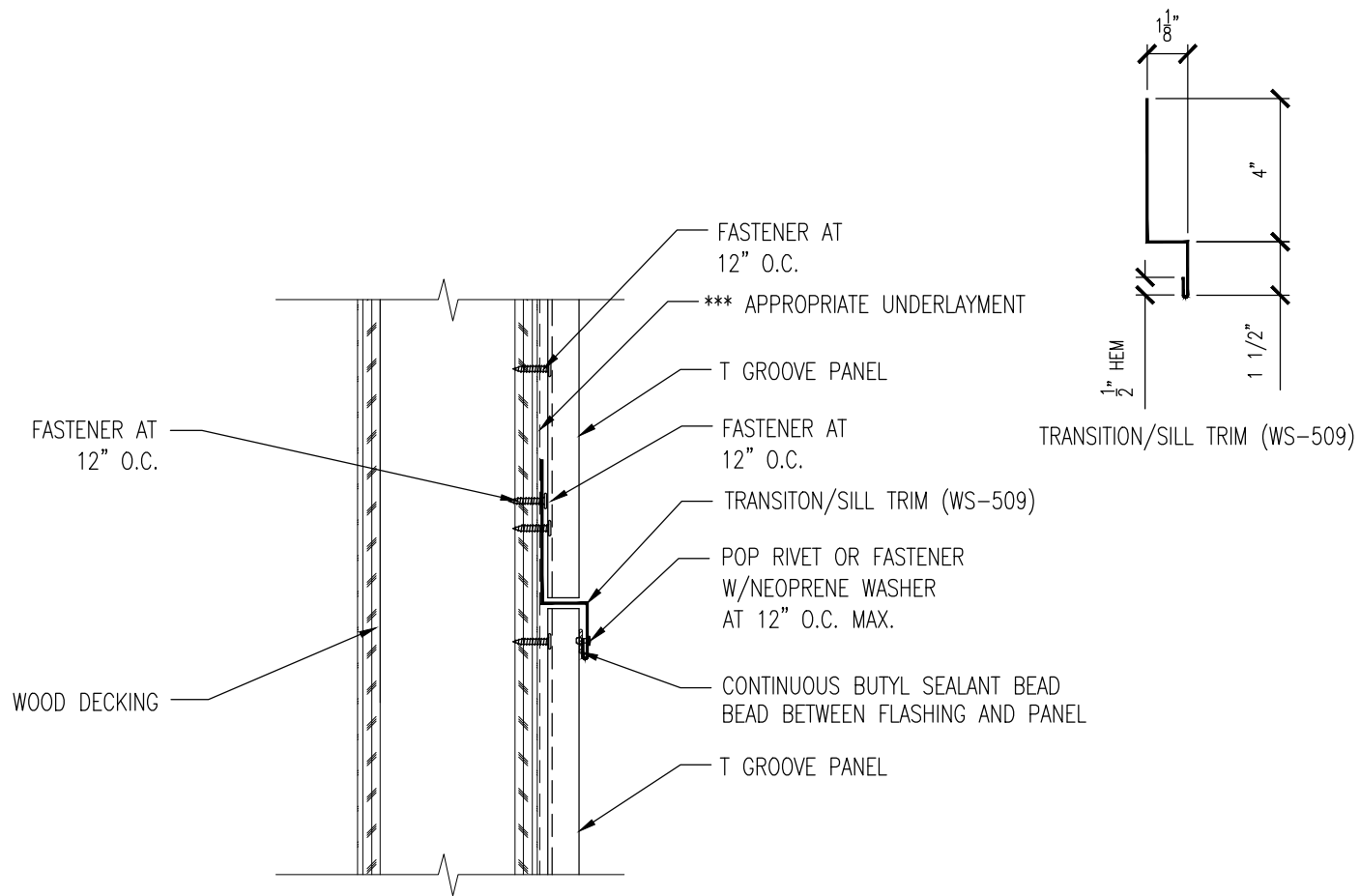
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GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
PARAPET WALL DETAIL			
		A	5/15/22
PANEL TYPE: T GROOVE®		REV:	DATE:
		DETAIL #: TG-WSD-W8	



VERTICAL WALL INSTALL

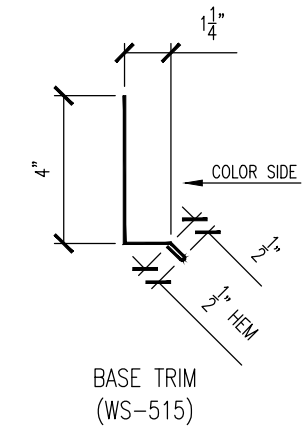
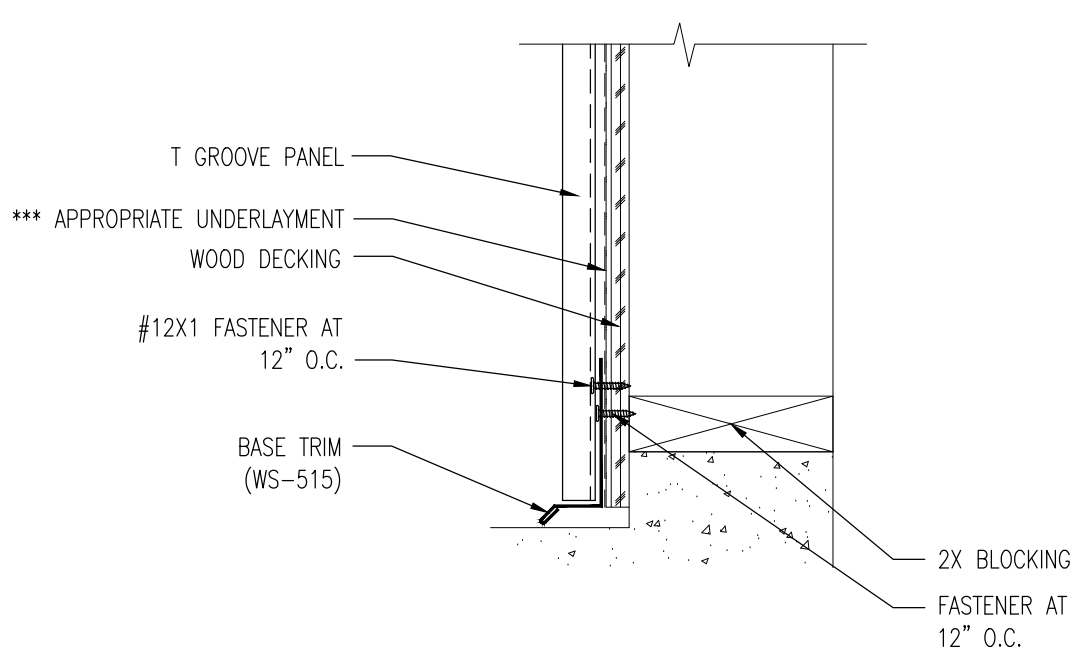
\*\*\* WSMR RECOMMENDS SHARKSKIN<sup>®</sup>ULTRA OR SHARKSKIN<sup>®</sup>ULTRA SA

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GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
SPLICE/SILL DETAIL			
		A	5/15/22
PANEL TYPE: T GROOVE <sup>®</sup>		REV:	DATE:
		DETAIL #: TG-WSD-W9	



\*\*\* WSMR RECOMMENDS SHARKSKIN®ULTRA OR SHARKSKIN®ULTRA SA

GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

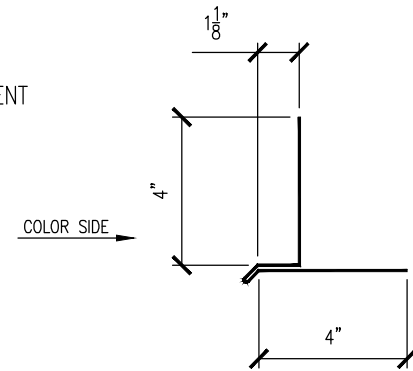
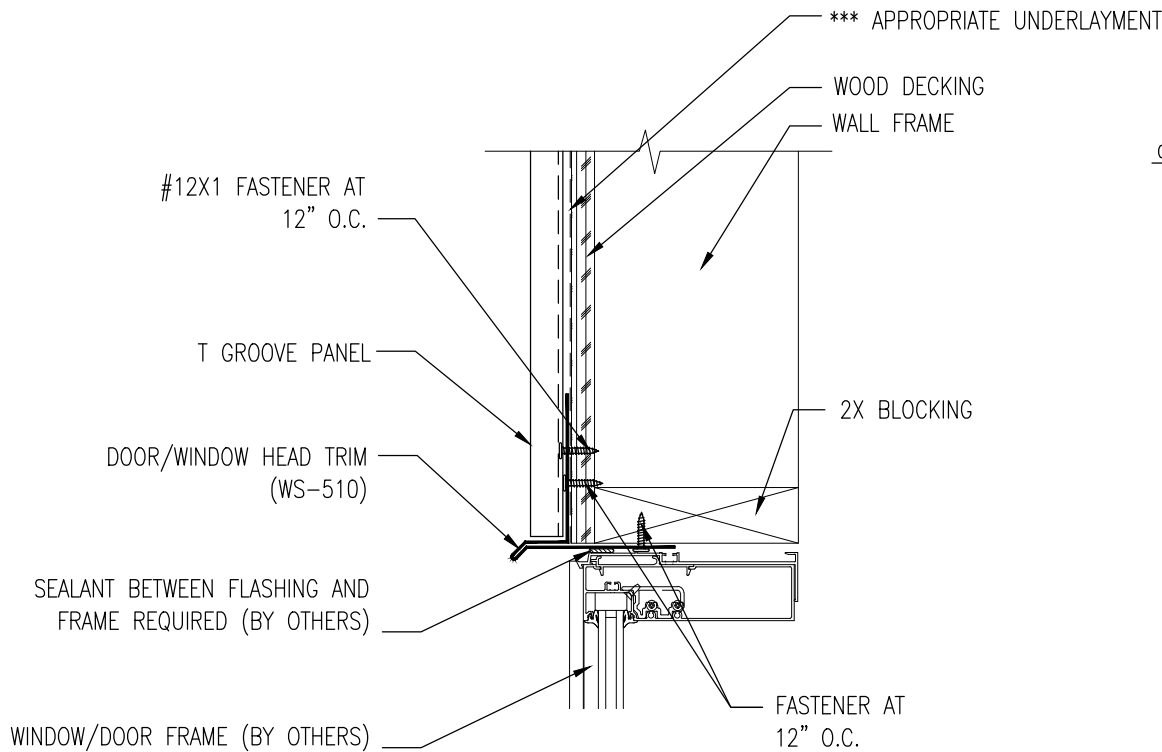
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BASE DETAIL		
	A	5/15/22
PANEL TYPE: <b>T GROOVE®</b>	REV:	DATE:
	DETAIL #: TG-WSD-W10	





DOOR/WINDOW HEAD TRIM (WS-510)

VERTICAL WALL INSTALL

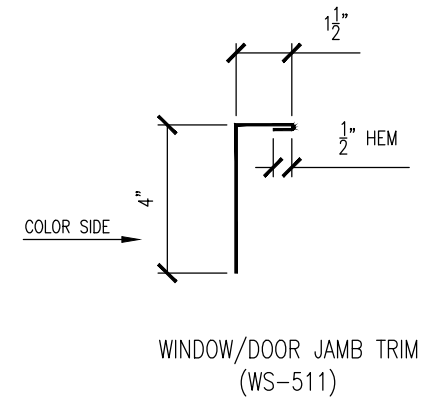
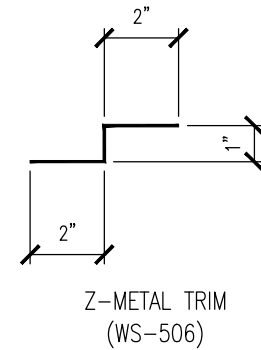
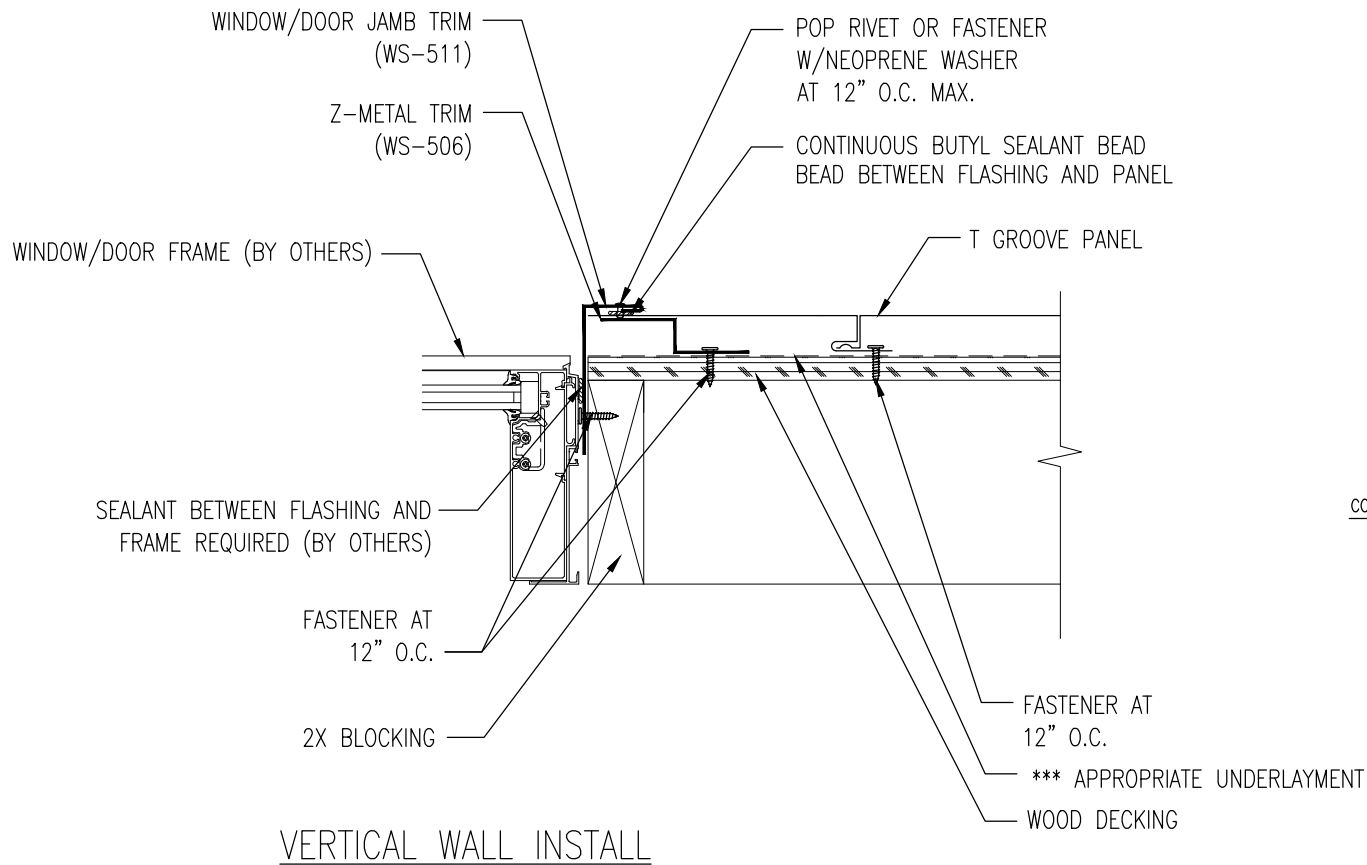
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GAUGE: _____	COLOR: _____	
LENGTH: _____	FINISH: _____	
MATERIAL: _____		
DOOR/WINDOW SILL AND HEAD DETAIL	A	5/15/22
	REV:	DATE:
PANEL TYPE: <b>T GROOVE®</b>	DETAIL #: <b>TG-WSD-W11</b>	



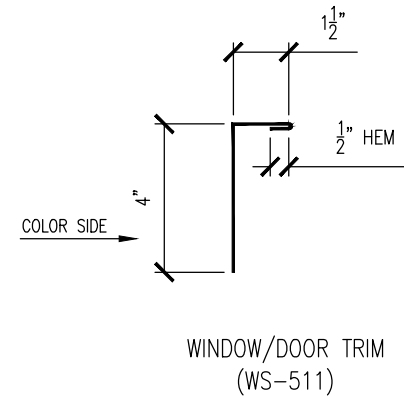
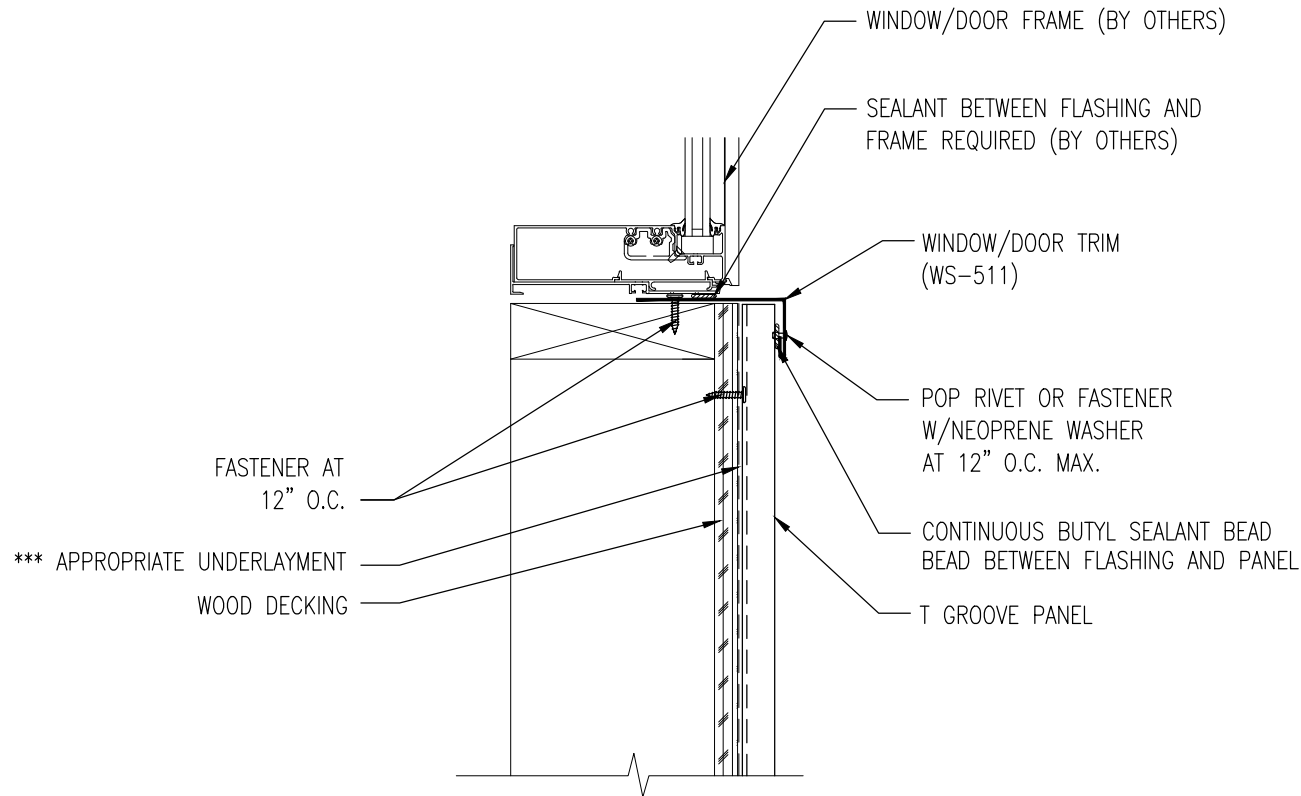
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GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
WINDOW/DOOR JAMB DETAIL			
		A	5/15/22
T GROOVE®		REV:	DATE:
		DETAIL #: TG-WSD-W12	



VERTICAL WALL INSTALL

\*\*\* WSMR RECOMMENDS SHARKSKIN<sup>®</sup>ULTRA OR SHARKSKIN<sup>®</sup>ULTRA SA

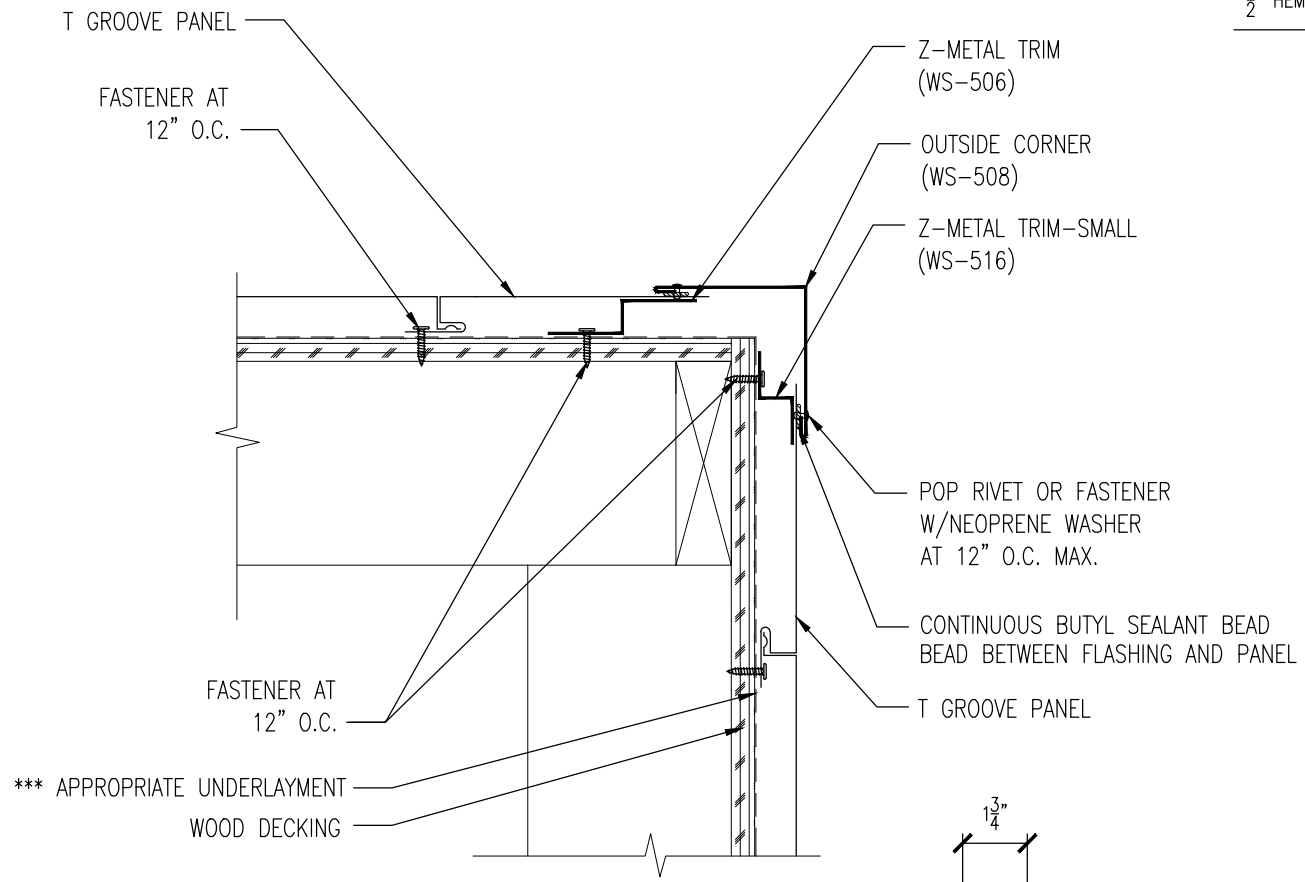
GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

## Western States Metal Roofing

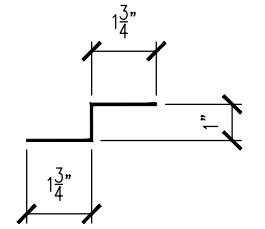
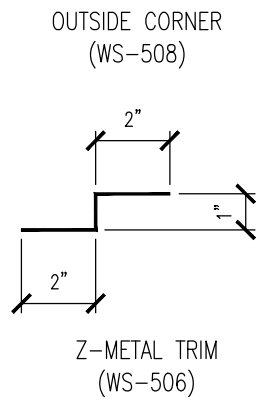
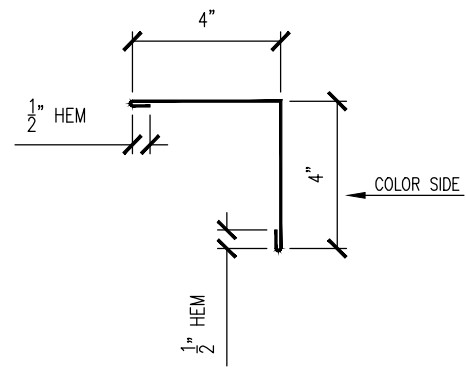
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DOOR/WINDOW SILL DETAIL		
	A	5/15/22
PANEL TYPE: T GROOVE <sup>®</sup>	REV:	DATE:
	DETAIL #: TG-WSD-W13	



VERTICAL WALL INSTALL



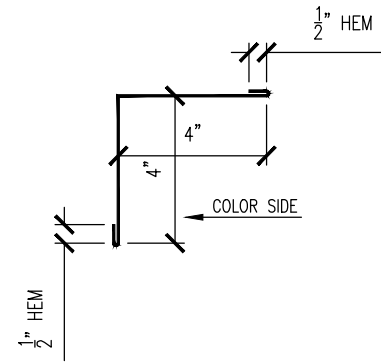
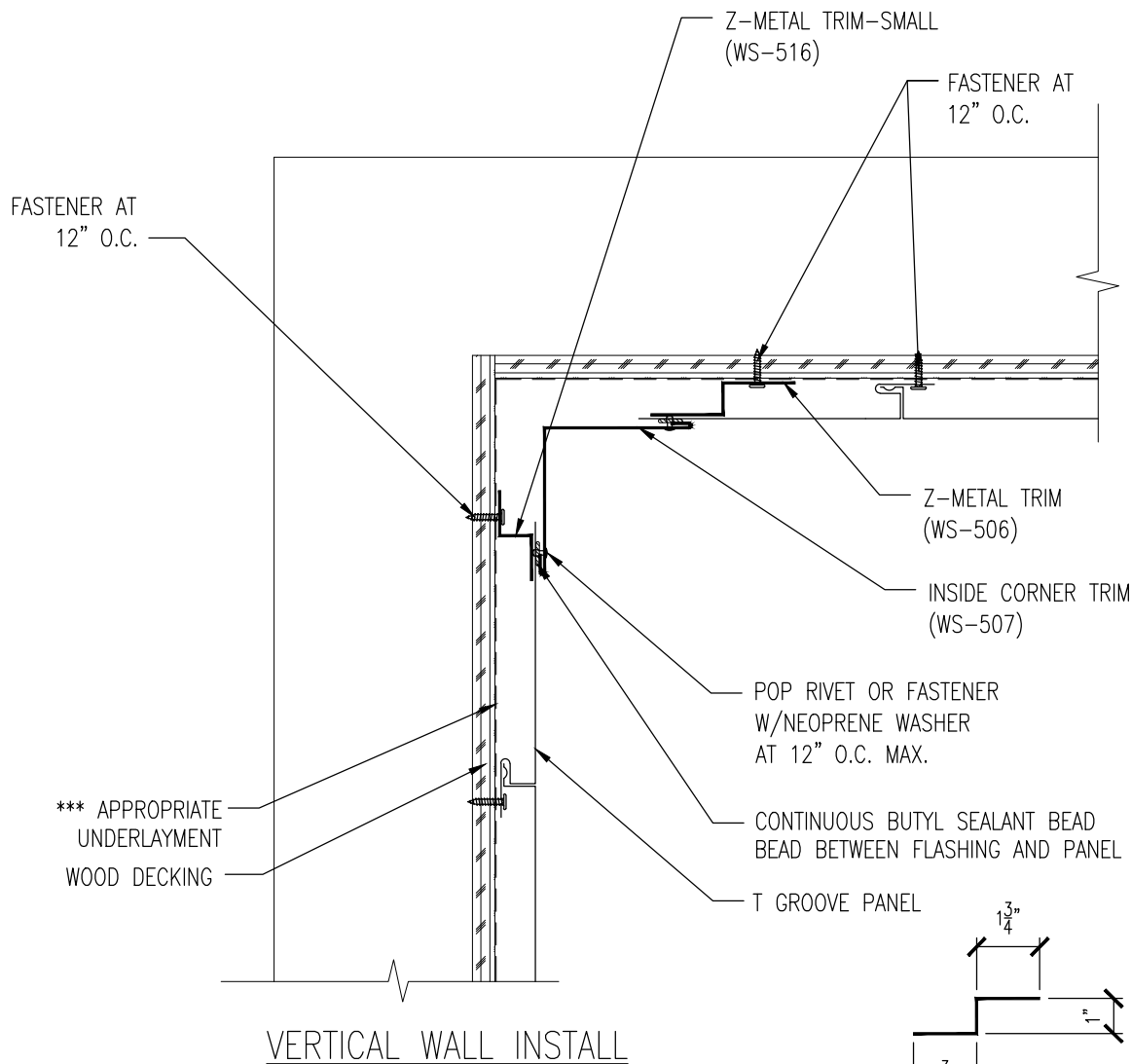
Z-METAL TRIM (SMALL)

\*\*\* WSMR RECOMMENDS SHARKSKIN<sup>®</sup> ULTRA OR SHARKSKIN<sup>®</sup> ULTRA SA (WS-516)

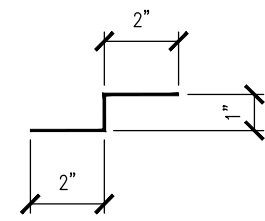
GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

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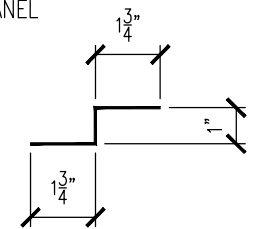
<b>OUTSIDE CORNER DETAIL</b>		
	A	5/15/22
PANEL TYPE: <b>T GROOVE<sup>®</sup></b>	REV:	DATE:
	DETAIL #: TG-WSD-W14	



INSIDE CORNER TRIM (WS-507)



Z-METAL TRIM (WS-506)



Z-METAL TRIM (SMALL) (WS-516)

VERTICAL WALL INSTALL

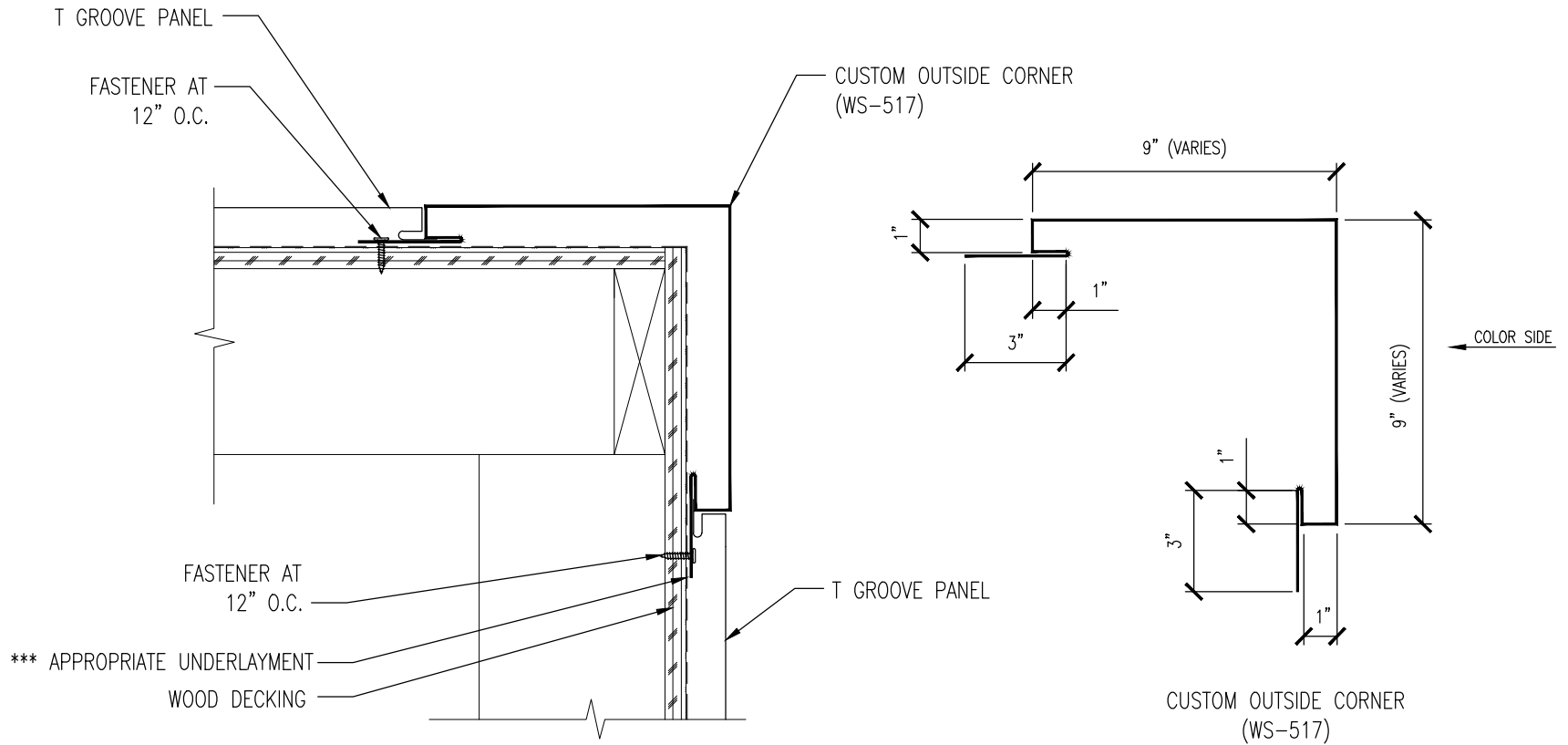
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GAUGE: _____	COLOR: _____	
LENGTH: _____	FINISH: _____	
MATERIAL: _____		
<b>INSIDE CORNER DETAIL</b>	A	5/15/22
	REV:	DATE:
PANEL TYPE: <b>T GROOVE®</b>	DETAIL #: <b>TG-WSD-W15</b>	



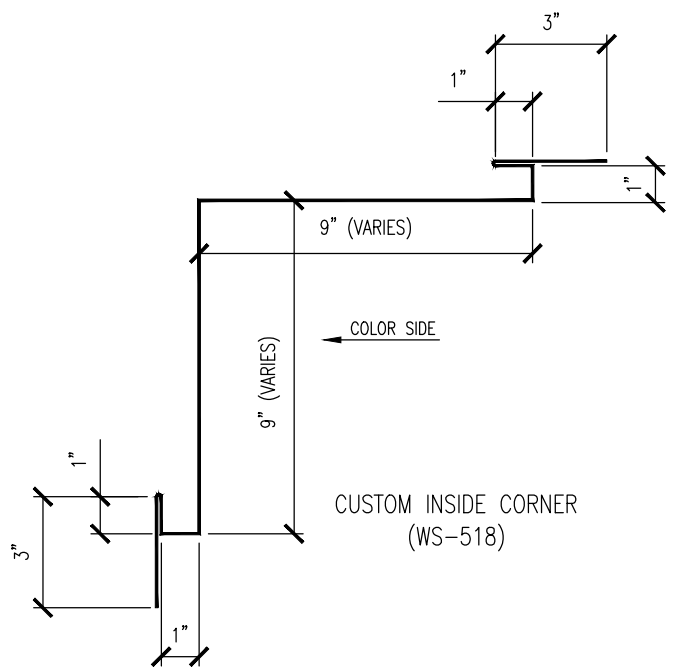
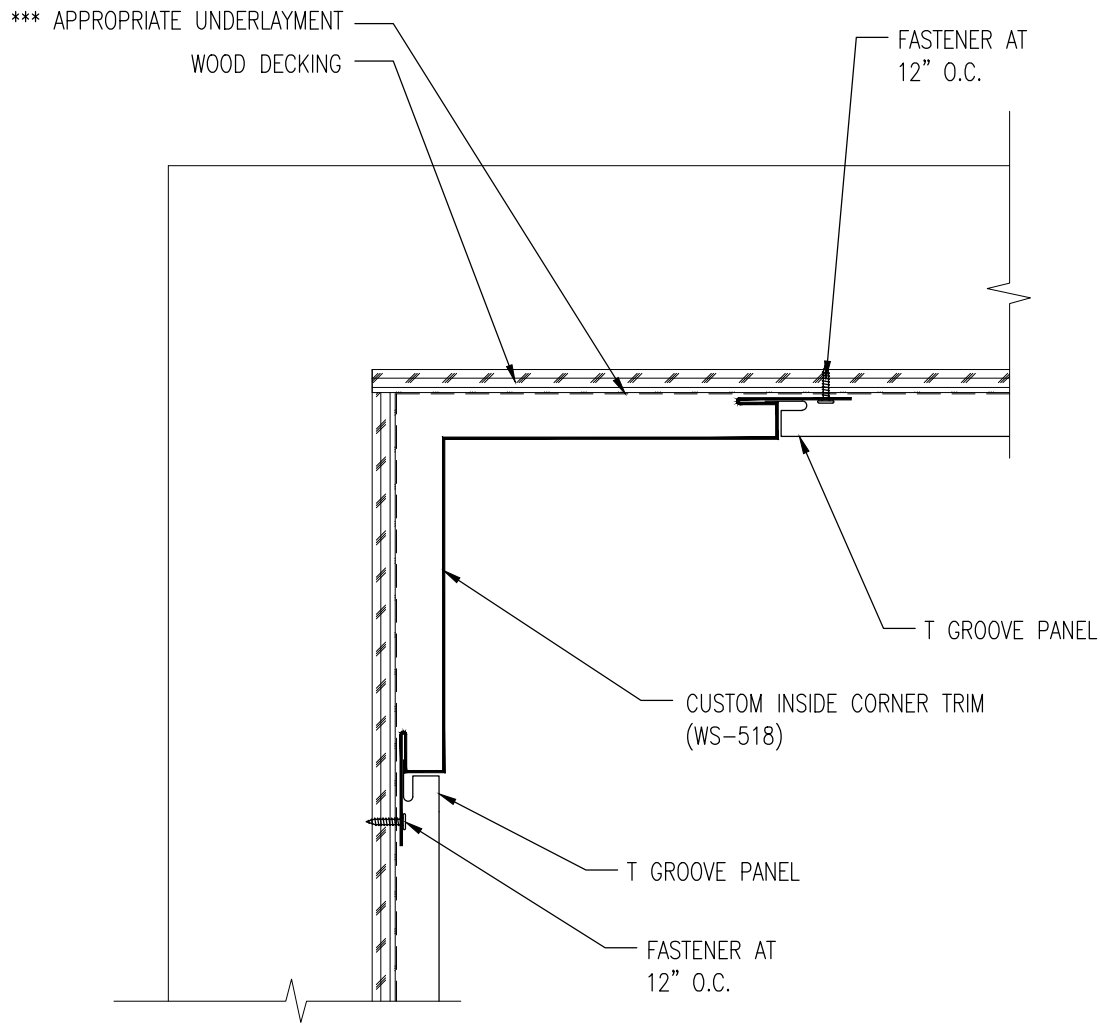
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GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
CUSTOM OUTSIDE CORNER DETAIL		A	5/15/22
		REV:	DATE:
T GROOVE®		DETAIL #: TG-WSD-W16	



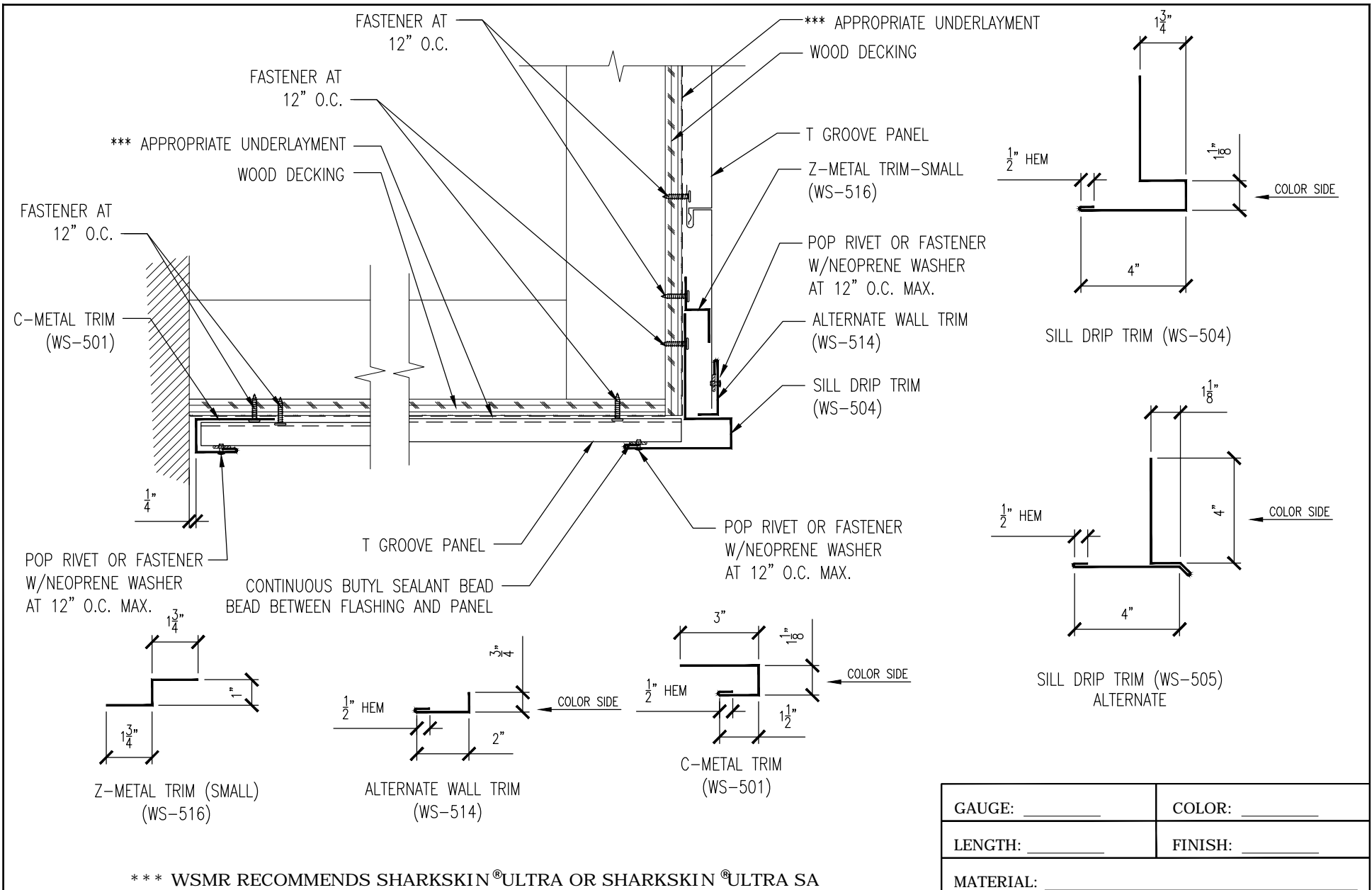
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GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

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CUSTOM INSIDE CORNER DETAIL		
	A	5/15/22
PANEL TYPE: <b>T GROOVE®</b>	REV:	DATE:
	DETAIL #: TG-WSD-W17	

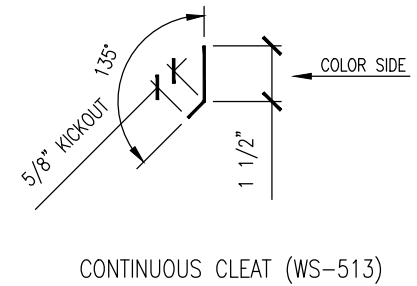
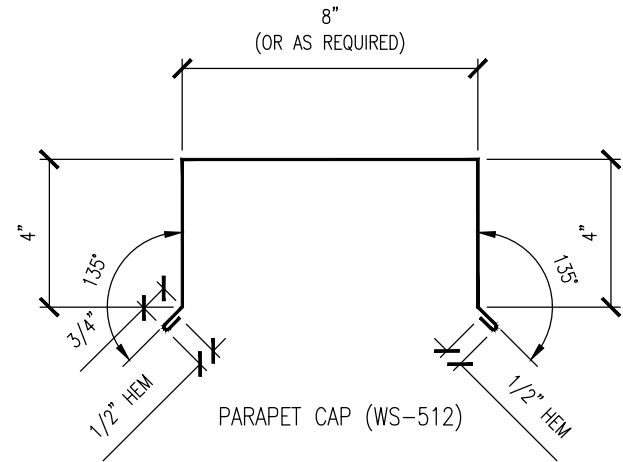
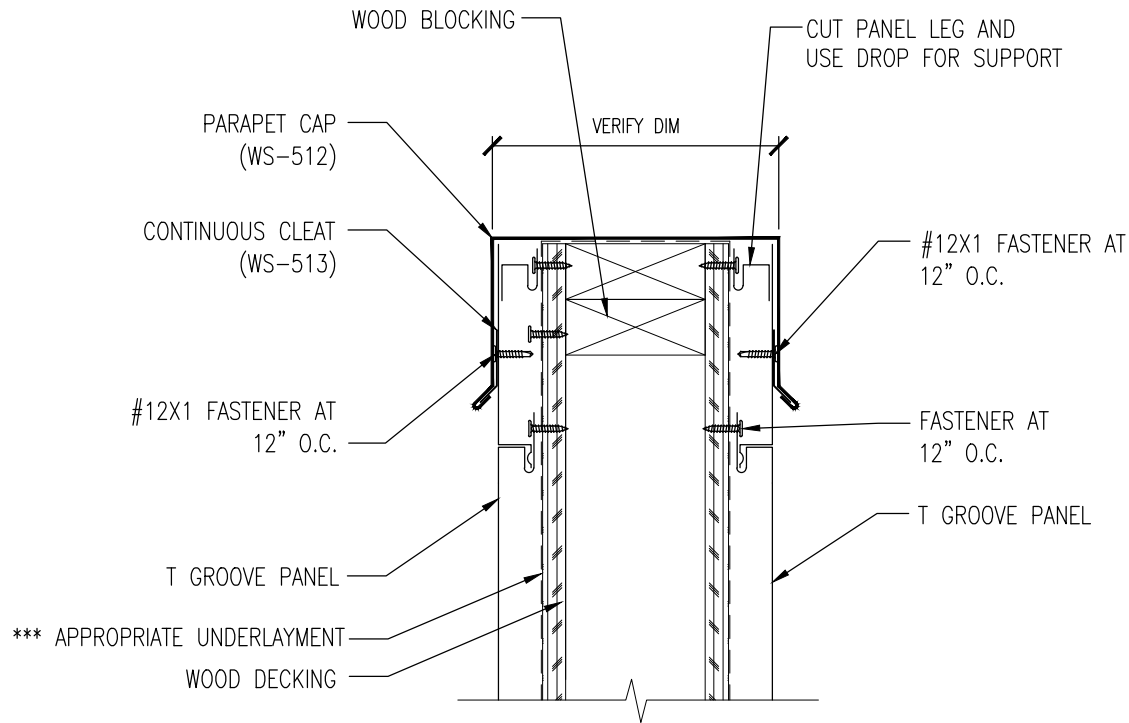


GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

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SOFFIT TO WALL HORIZONTAL DETAIL	A	5/15/22
	REV:	DATE:
PANEL TYPE: <b>T GROOVE®</b>	DETAIL #: <b>TG-WSD-W18</b>	





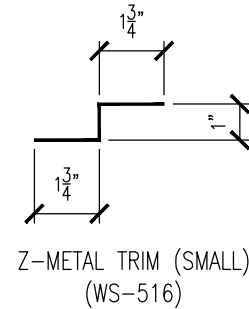
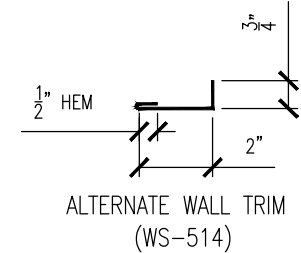
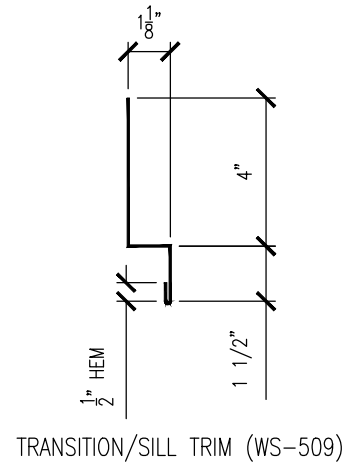
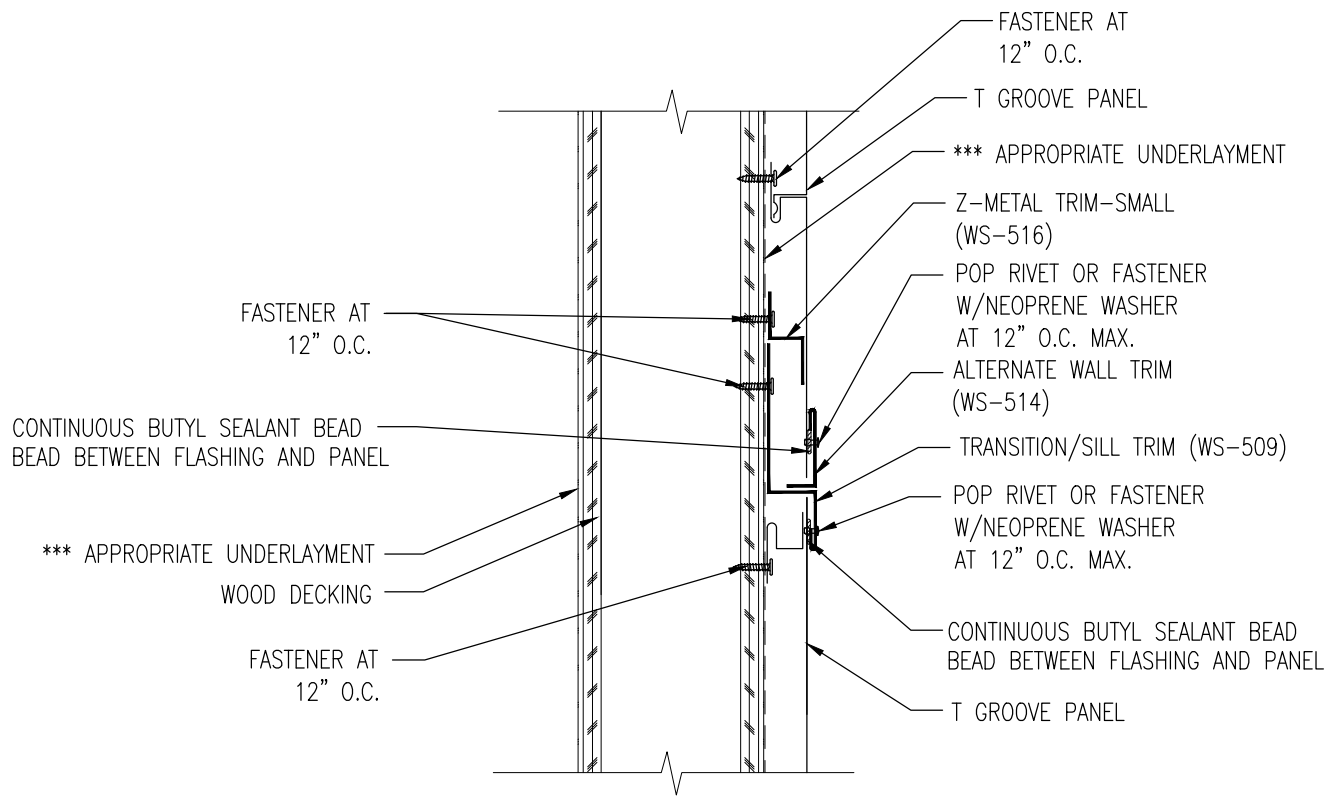
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GAUGE: _____	COLOR: _____	
LENGTH: _____	FINISH: _____	
MATERIAL: _____		
PARAPET WALL HORIZONTAL DETAIL	A	5/15/22
	REV:	DATE:
PANEL TYPE: <b>T GROOVE®</b>	DETAIL #: TG-WSD-W19	



\*\*\* WSMR RECOMMENDS SHARKSKIN®ULTRA OR SHARKSKIN®ULTRA SA

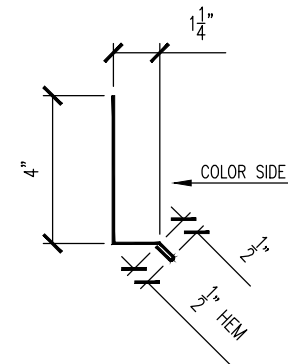
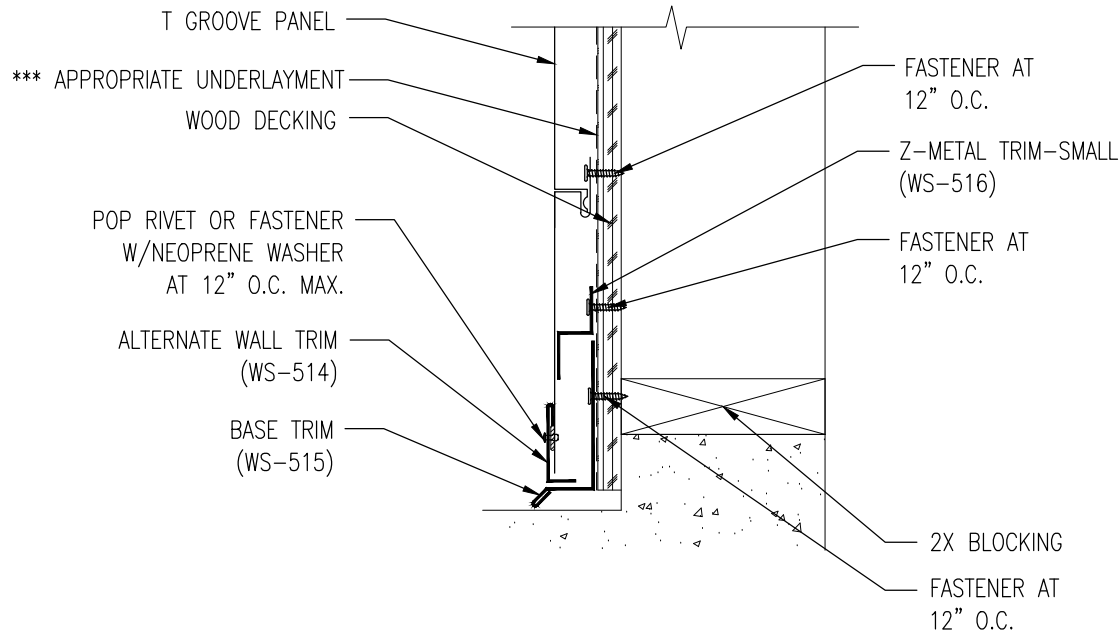
GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

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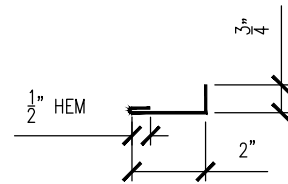
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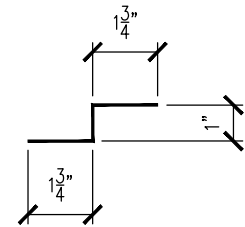
SPLICE/SILL HORIZONTAL DETAIL		
	A	5/15/22
PANEL TYPE: T GROOVE®	REV:	DATE:
	DETAIL #: TG-WSD-W20	



BASE TRIM  
(WS-515)



ALTERNATE WALL TRIM  
(WS-514)



Z-METAL TRIM (SMALL)  
(WS-516)

\*\*\* WSMR RECOMMENDS SHARKSKIN<sup>®</sup> ULTRA OR SHARKSKIN<sup>®</sup> ULTRA SA

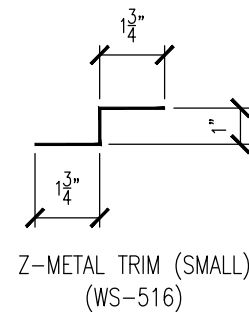
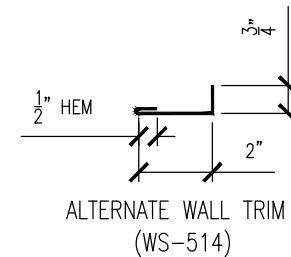
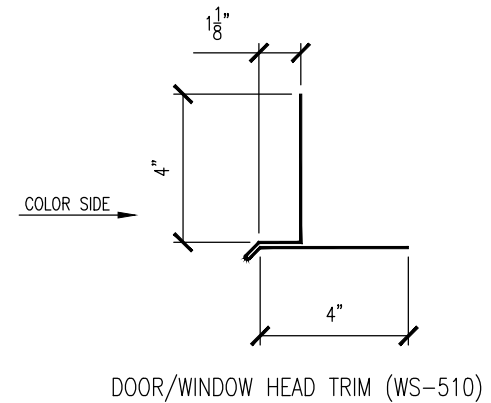
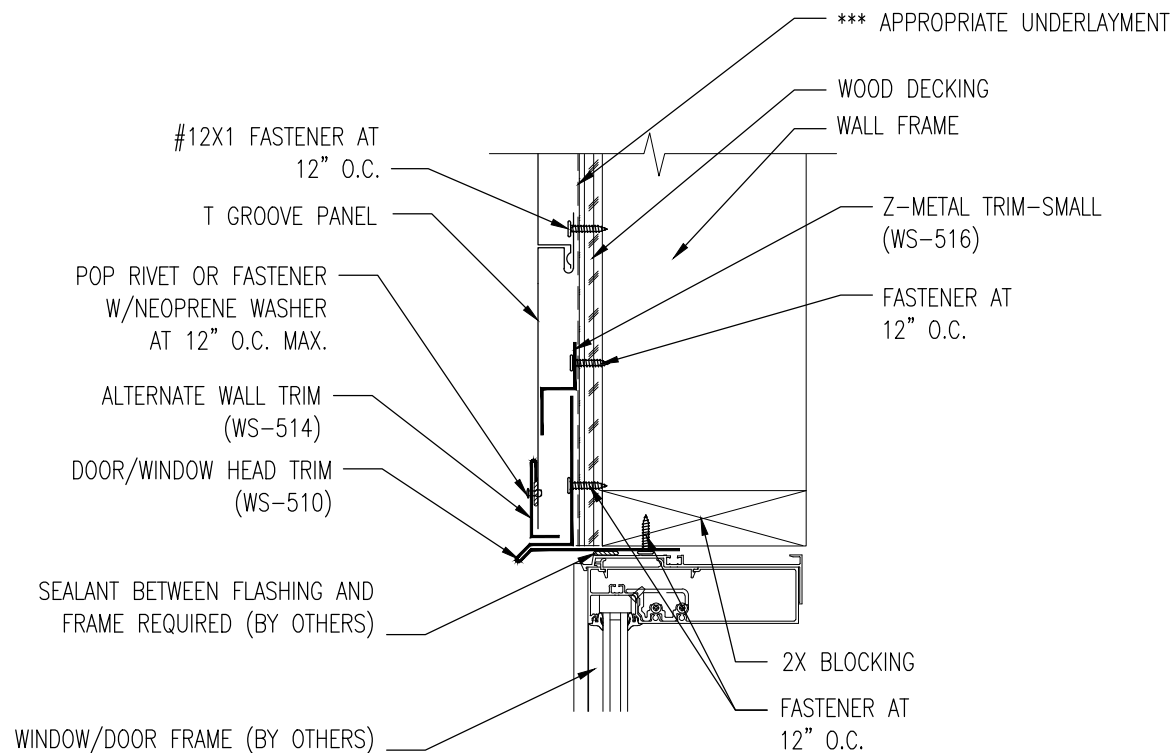
GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

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BASE HORIZONTAL DETAIL		
	A	5/15/22
PANEL TYPE: <b>T GROOVE<sup>®</sup></b>	REV:	DATE:
	DETAIL #: TG-WSD-W21	



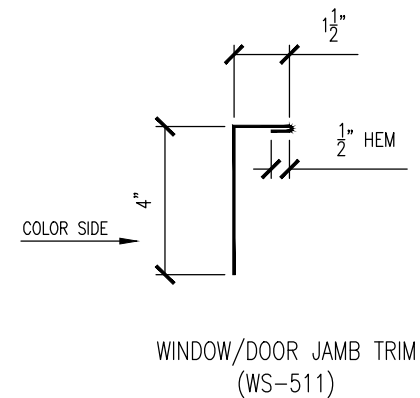
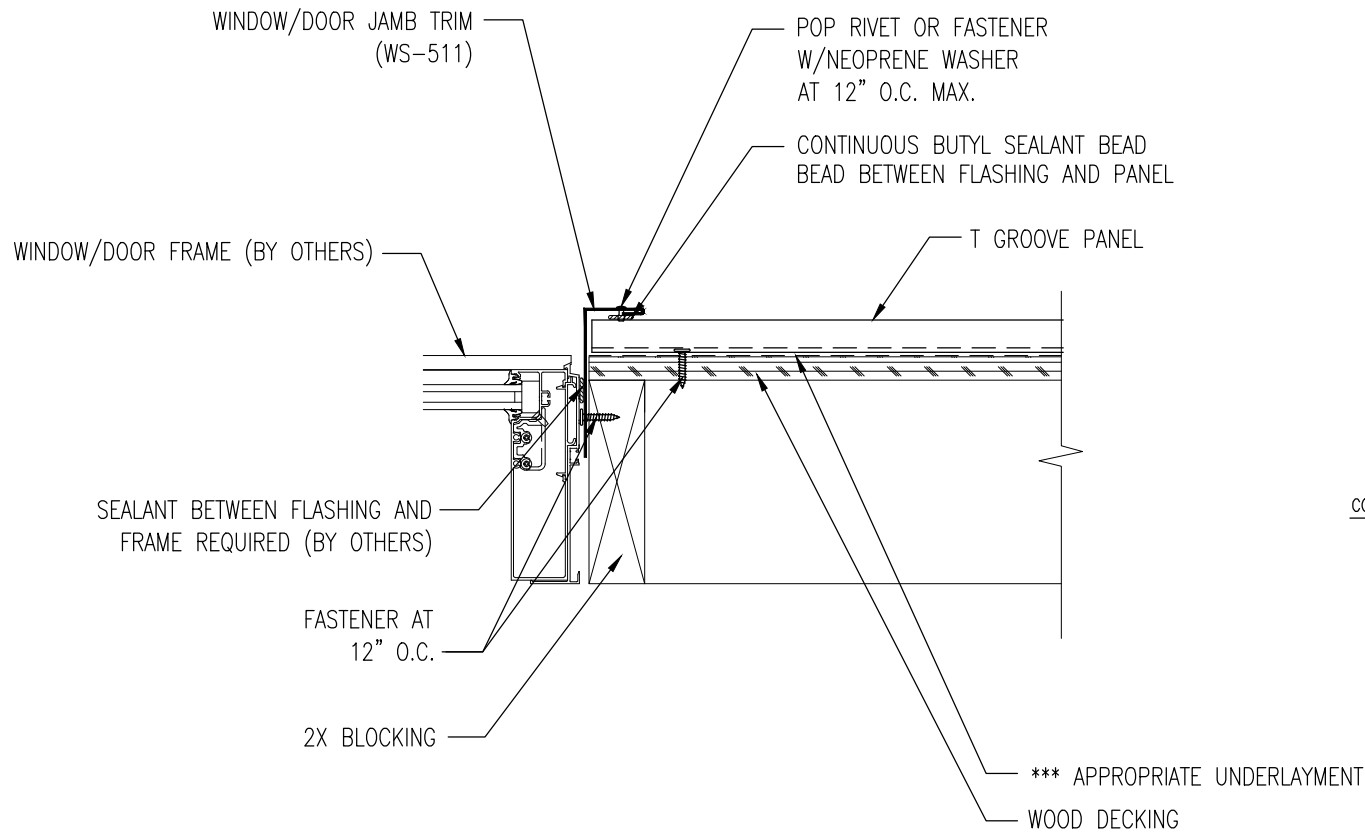
\*\*\* WSMR RECOMMENDS SHARKSKIN®ULTRA OR SHARKSKIN®ULTRA SA

GAUGE: _____	COLOR: _____	
LENGTH: _____	FINISH: _____	
MATERIAL: _____		
WINDOW/DOOR HEAD HORIZONTAL DETAIL	A	5/15/22
	REV:	DATE:
PANEL TYPE: <b>T GROOVE®</b>	DETAIL #: <b>TG-WSD-W22</b>	

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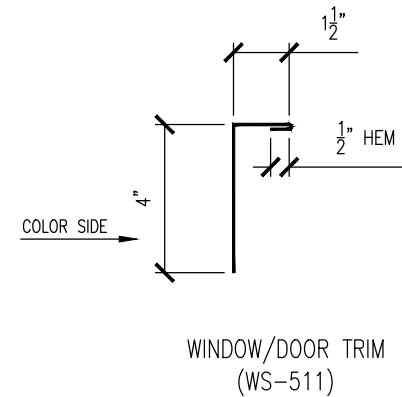
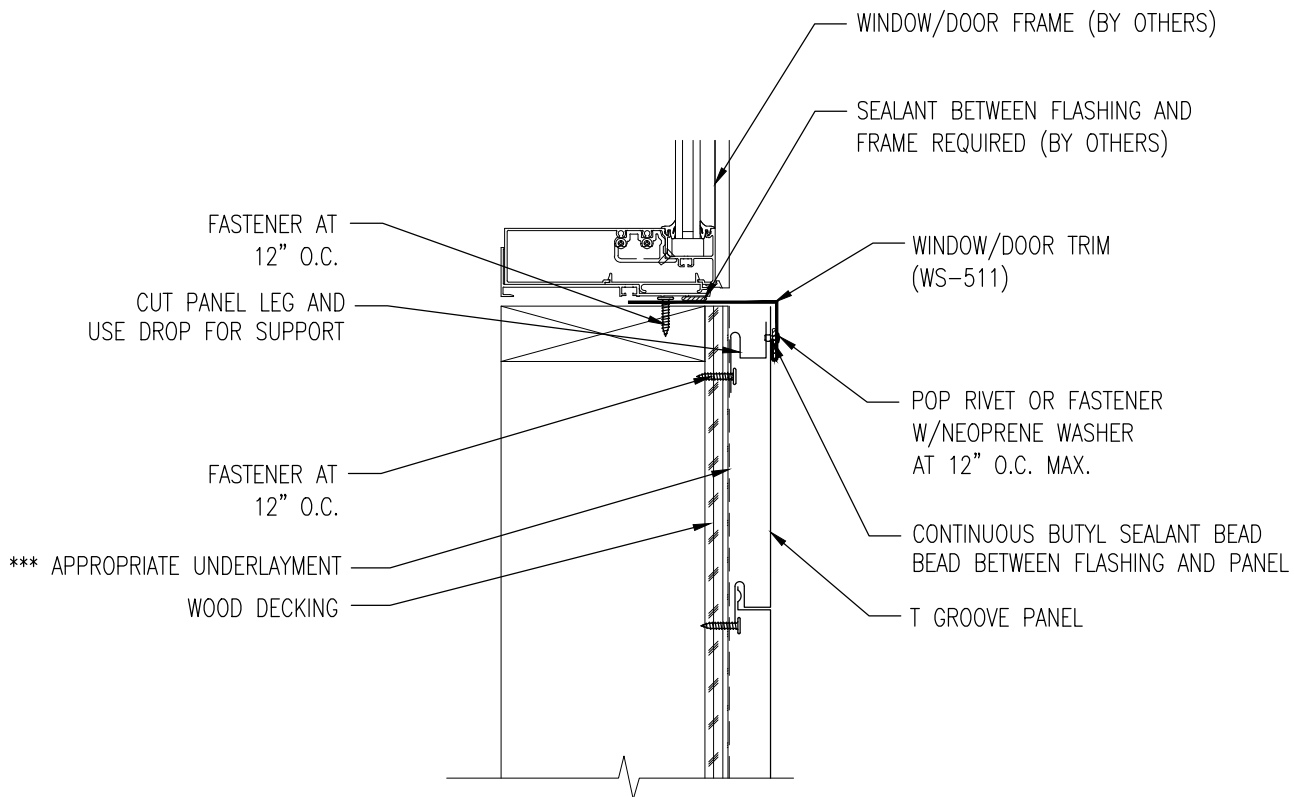
\*\*\* WSMR RECOMMENDS SHARKSKIN<sup>®</sup>ULTRA OR SHARKSKIN<sup>®</sup>ULTRA SA

GAUGE: _____	COLOR: _____		
LENGTH: _____	FINISH: _____		
MATERIAL: _____			
WINDOW/DOOR JAMB HORIZONTAL DETAIL		A	5/15/22
		REV:	DATE:
PANEL TYPE: <b>T GROOVE<sup>®</sup></b>		DETAIL #: <b>TG-WSD-W23</b>	

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\*\*\* APPROPRIATE UNDERLAYMENT

\*\*\* WSMR RECOMMENDS SHARKSKIN<sup>®</sup> ULTRA OR SHARKSKIN<sup>®</sup> ULTRA SA

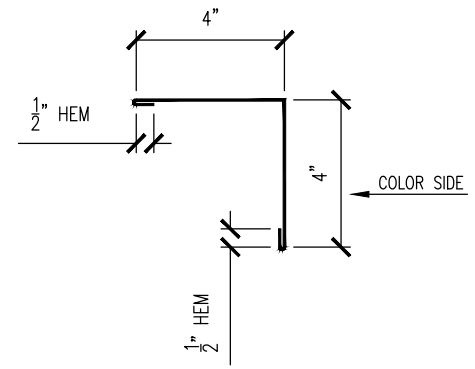
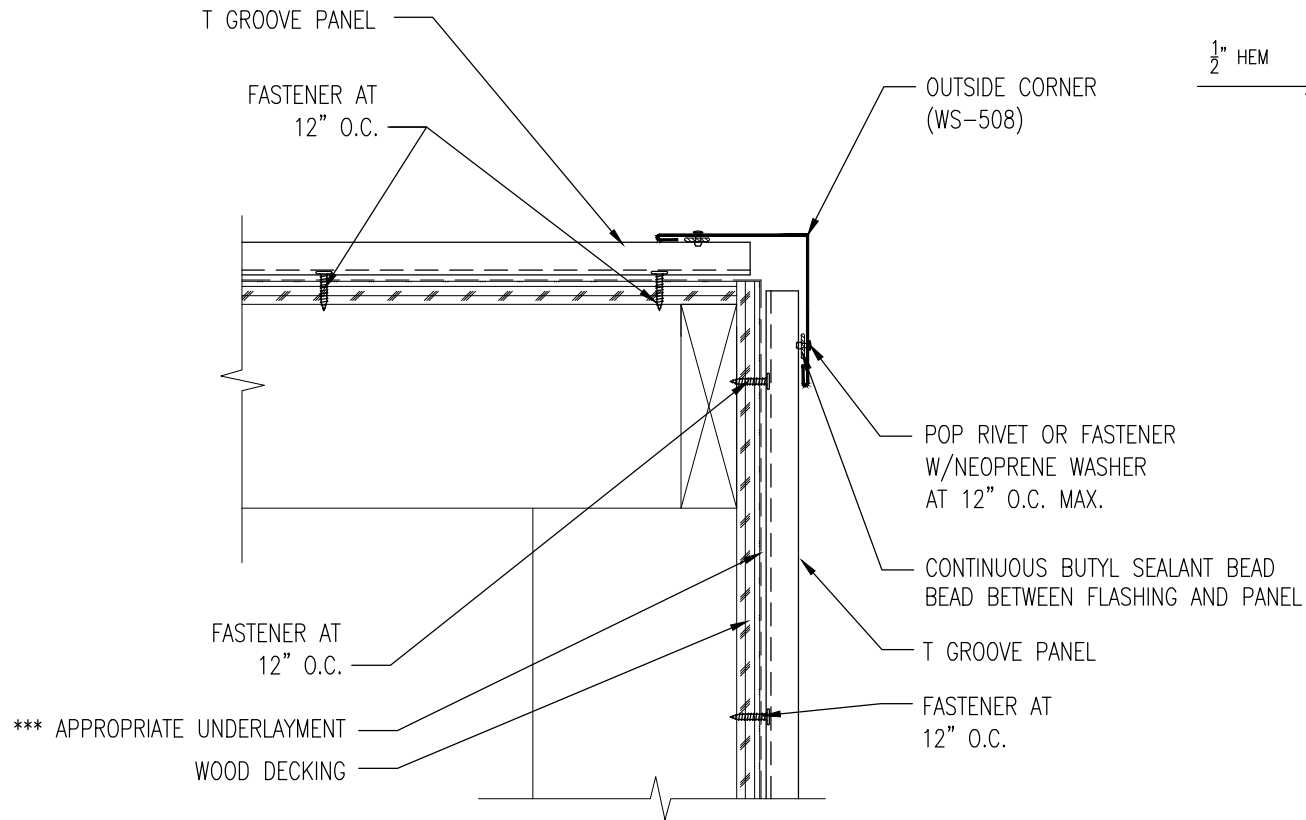
GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

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WINDOW/DOOR SILL HORIZONTAL DETAIL		
	A	5/15/22
PANEL TYPE: <b>T GROOVE<sup>®</sup></b>	REV:	DATE:
	DETAIL #: TG-WSD-W24	



OUTSIDE CORNER (WS-508)

\*\*\* WSMR RECOMMENDS SHARKSKIN® ULTRA OR SHARKSKIN® ULTRA SA

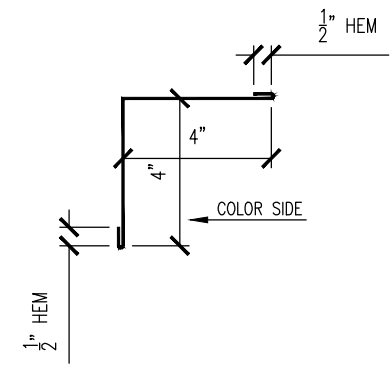
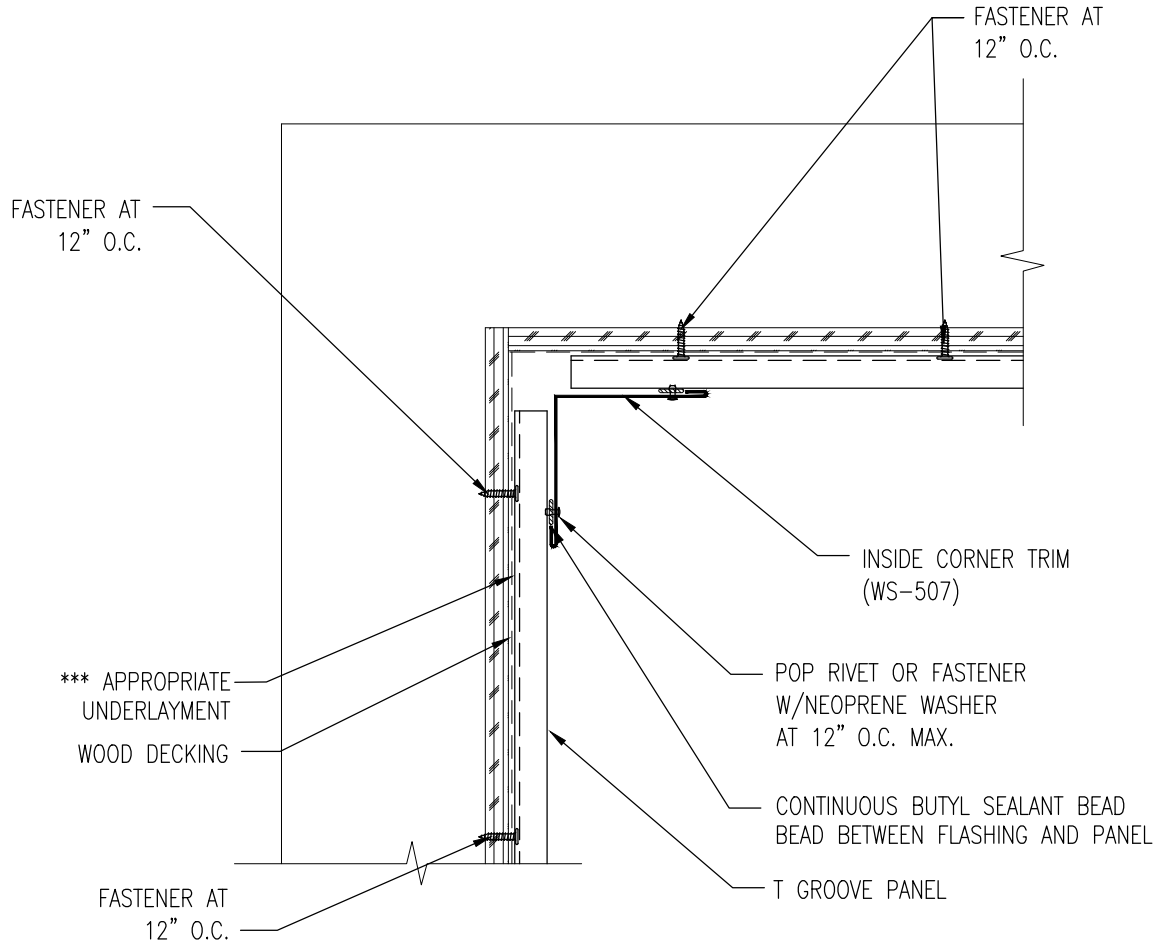
GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	

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OUTSIDE CORNER HORIZONTAL DETAIL		
	A	5/15/22
PANEL TYPE: <b>T GROOVE®</b>	REV:	DATE:
	DETAIL #: TG-WSD-W25	



INSIDE CORNER TRIM (WS-507)

\*\*\* WSMR RECOMMENDS SHARKSKIN®ULTRA OR SHARKSKIN®ULTRA SA

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GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
INSIDE CORNER HORIZONTAL DETAIL			
		A	5/15/22
PANEL TYPE: <b>T GROOVE®</b>		REV:	DATE:
		DETAIL #: TG-WSD-W26	





# CUSTOM TRIM

GAUGE: _____	COLOR: _____	
BREAKS: _____	FINISH: _____	
LENGTH: _____	STRETCH OUT: _____	
MATERIAL: _____		
CUSTOM TRIM NAME: _____		
	A	5/15/22
PANEL TYPE: <b>T GROOVE</b> ®	REV:	DATE:
	DETAIL #: TG-WSD-CT28	

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## **Western States T-Groove® 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 within 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, such as A606-4 (Corten) which requires a High Temperature underlayment. WSMR recommends Sharkskin® Ultra and/or Sharkskin® Ultra SA.

### **Snow Design**

Design and dimension must be the proper width to accommodate high snow, rain, ice, and slope conditions. If possible, splices, penetrations, 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**

T-Groove is available in the following panel widths: 12", 14", 16" and 18" wide. It can also be made with up to a 3" reveal. Custom panel widths are available. Please consult with your WSMR representative for details and fastening recommendations.

### **Safety and Maintenance**

Extreme care should always be used when working with metals. Safety should always be a top priority and approved fall protection and equipment as approved by OSHA should always be used.

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

### **References**

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

### **Technical Assistance**

Contact your WSDI sales or technical representative for any additional information or assistance. To insure you have the latest information available, please inquire or visit our web sites at [www.Westernstatesmetalroofing.com](http://www.Westernstatesmetalroofing.com) or [www.Paintedtrustedroofing.com](http://www.Paintedtrustedroofing.com)



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