



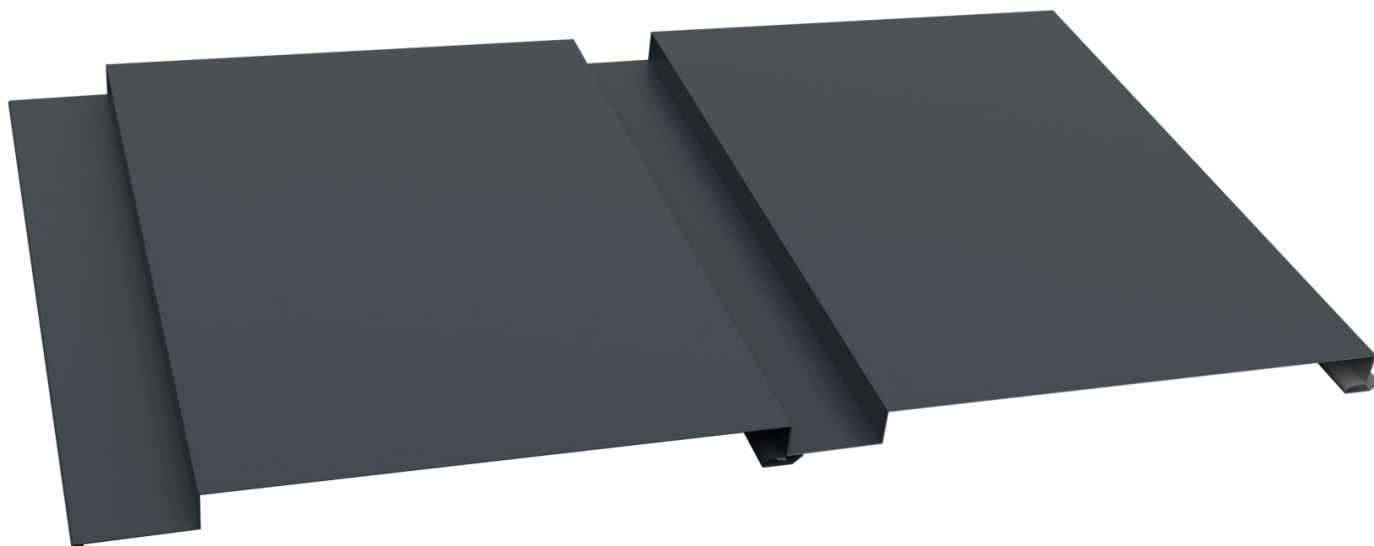
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## T-REVEAL® PANEL

### INSTALLATION GUIDE WITH TRIM, FLASHINGS AND DETAILS



4206-22



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# Western States “T-Reveal ®” Wall and Soffit Panels

Installation, Flashings & Shop Drawing Detail Guide

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## **Western States "T-Reveal ®" 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-Reveal ®" panels are used over all type of substrates like Steel Framing, girts, 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 rubberized Ice and water shield.

### **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.

## Western States Metal Siding "T-Reveal" ® Panel

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 fastener 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.

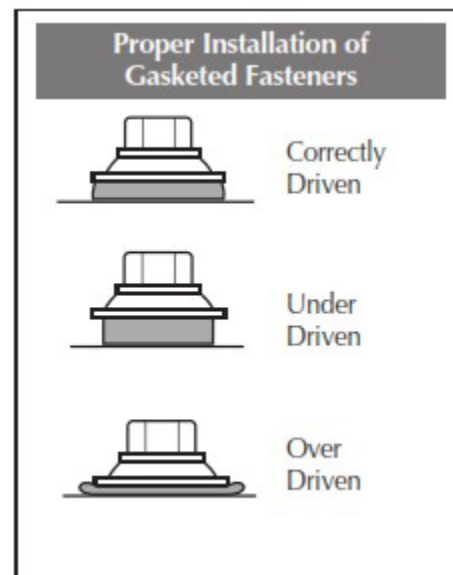
Attachment screws must be long enough to fully penetrate through roof deck substrate or penetrate solid lumber at least one inch.

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)


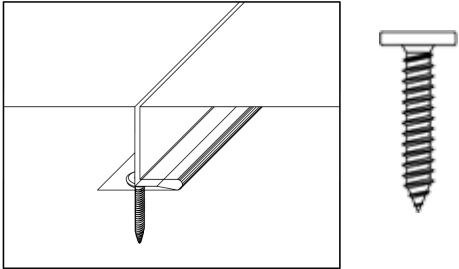

Recommended drill speed is 2000rpm. Improper setting of drill speed can lead to snapping of screw heads.

Pre drilling of screw holes may be necessary with heavy gauge metals.

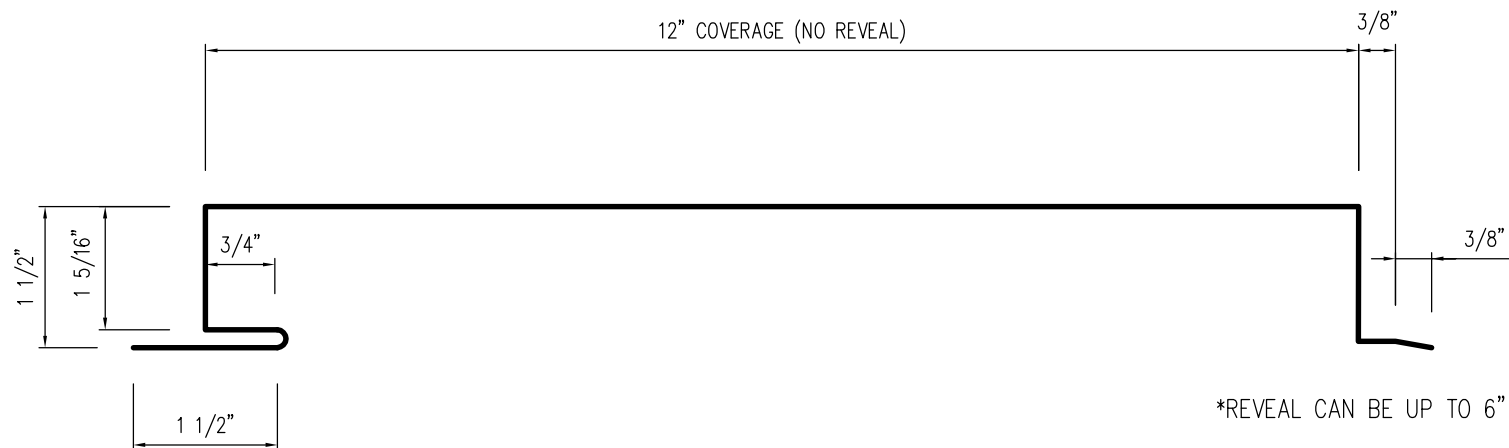
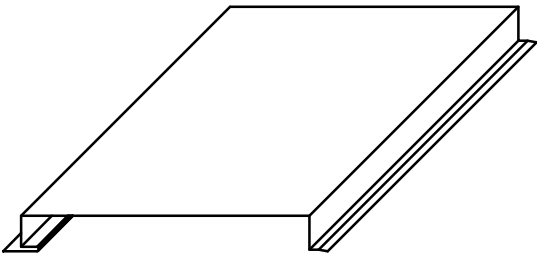


**Western States Metal Siding "T-Reveal" ® Panel**  
 Installation, Flashings & Shop Drawing Detail Guide

**Fastener Selection**

Description	Application	
14 x 7/8" Lap Self tap 14 x7/8 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. 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.	

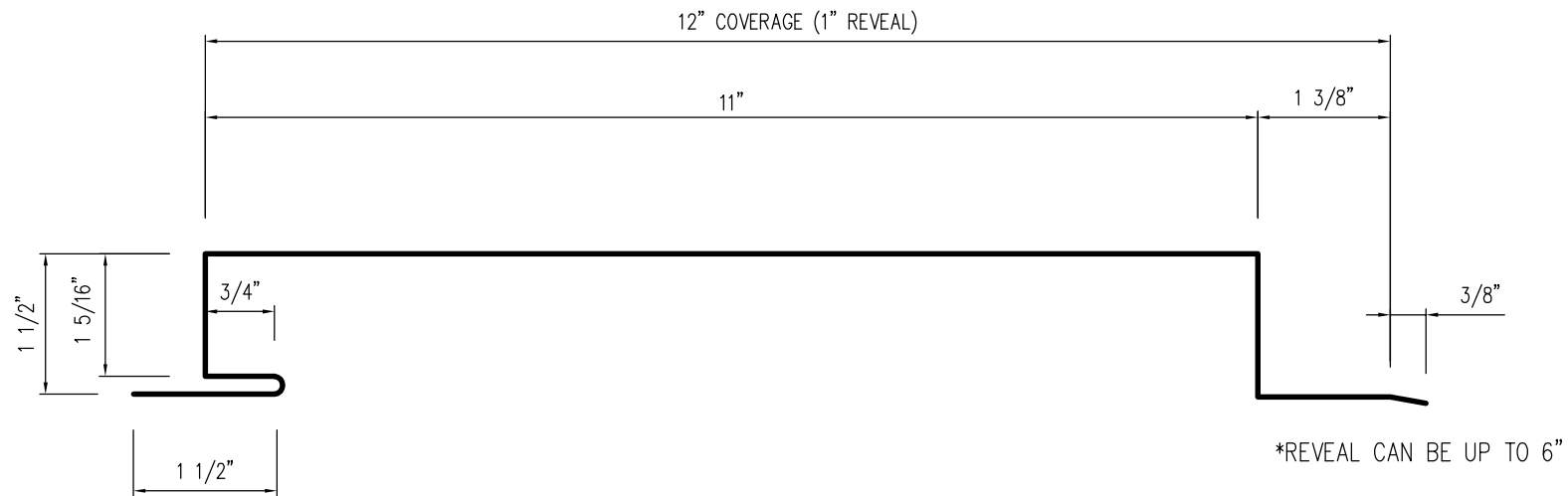
The table above shows the panel Fasteners provided by WSD. Special order screws are available.



Available Lengths: 1'-0" to 20'-0" Max

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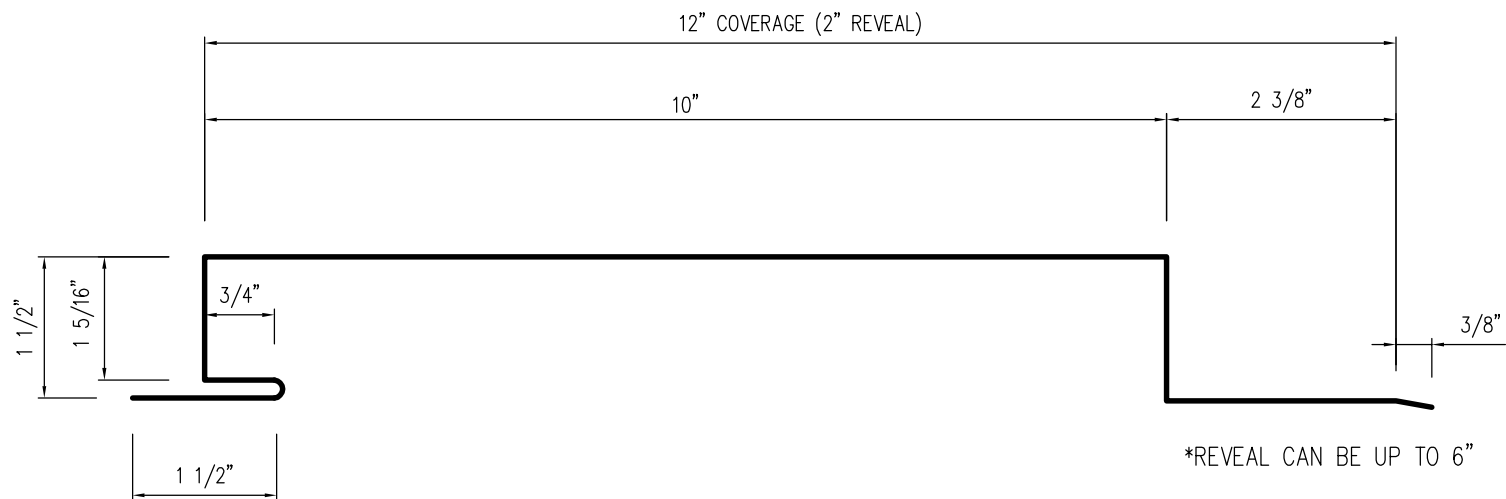
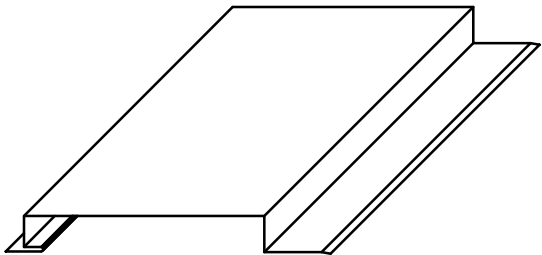
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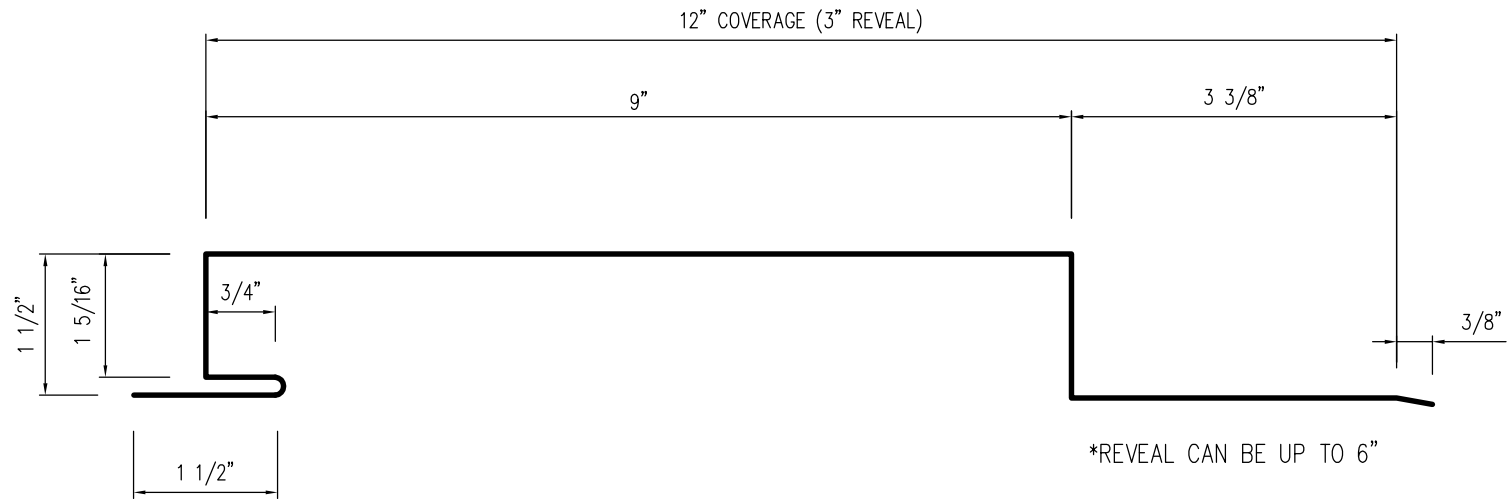
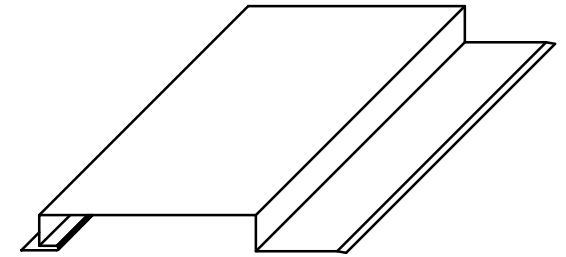


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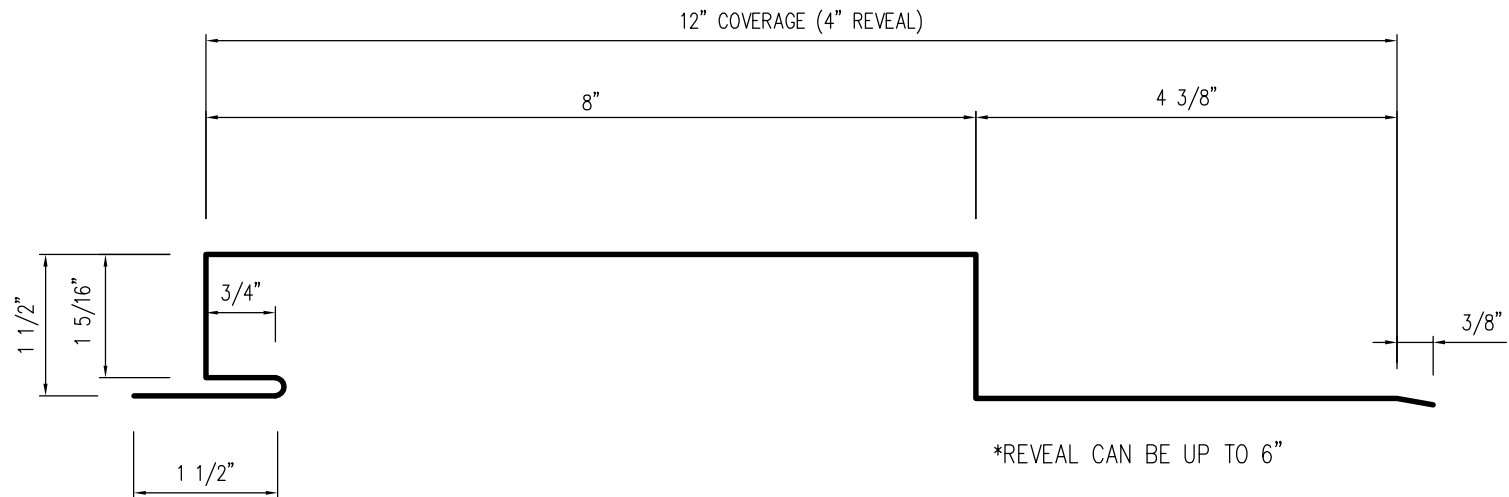
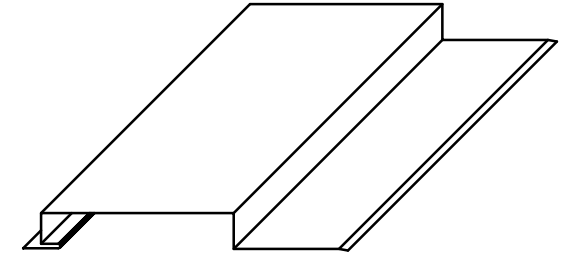




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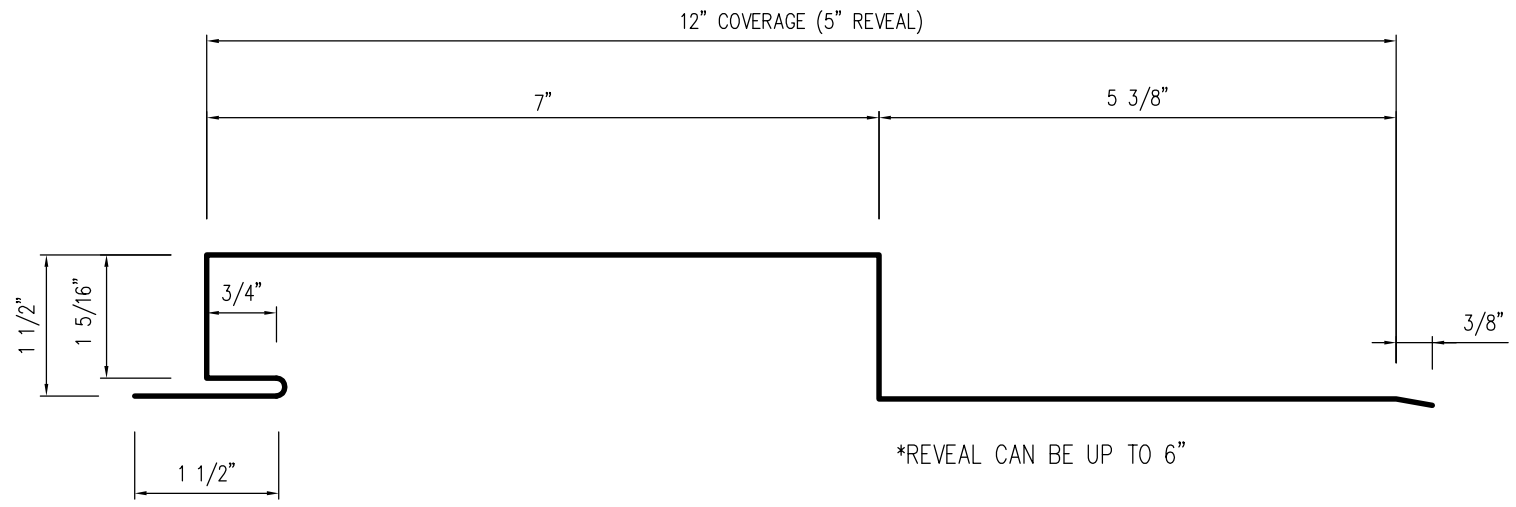
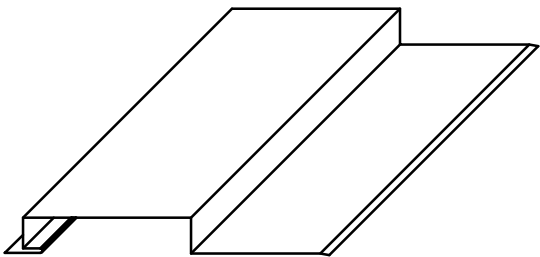
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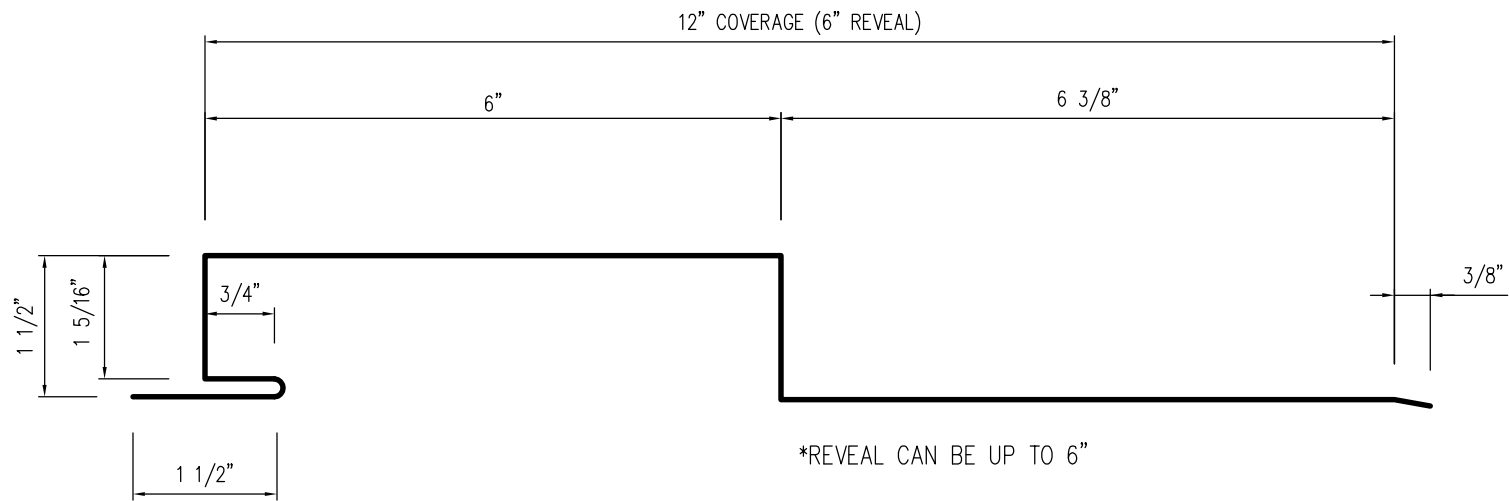
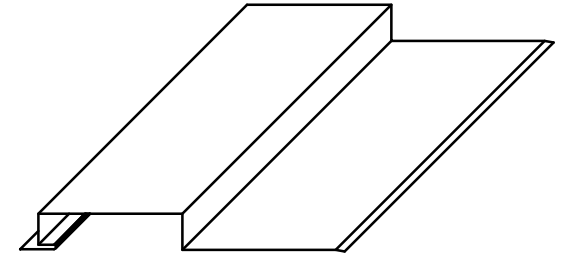
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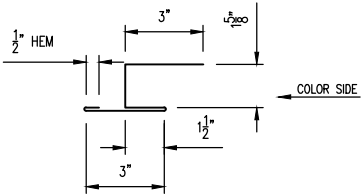
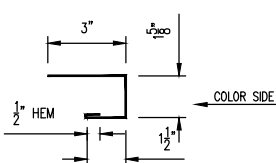
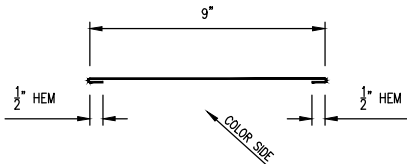
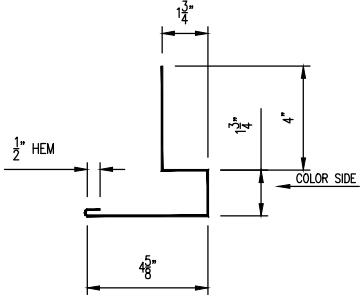
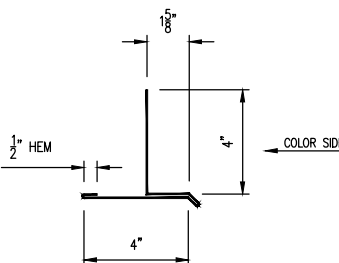
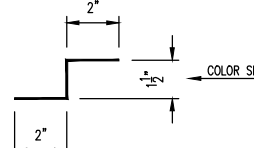
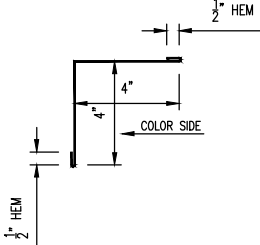
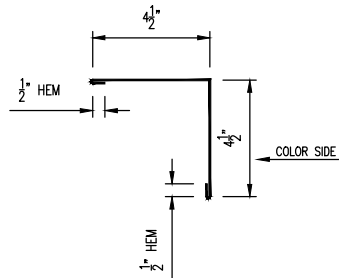
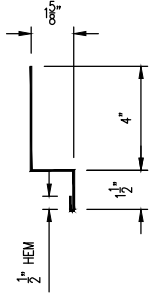
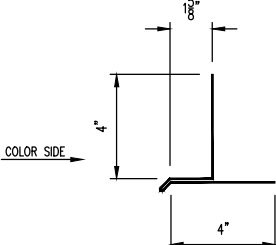
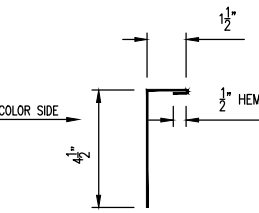
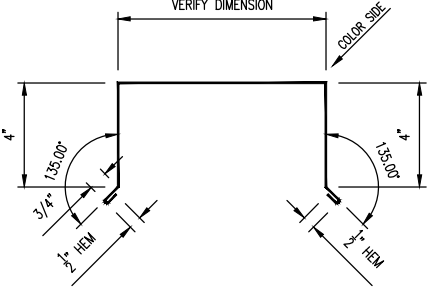
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END SPLICE WS-700	C METAL (J-TRIM) WS-701	REVEAL FLASHING WS-702	SILL DRIP TRIM WS-704
			
ALTERNATE SILL DRIP TRIM WS-705	Z METAL TRIM WS-706	INSIDE CORNER TRIM WS-707	OUTSIDE CORNER TRIM WS-708
			
TRANSITION/SILL TRIM WS-709	DOOR/WINDOW HEAD TRIM WS-710	DOOR/WINDOW JAMB TRIM WS-711	PARAPET CAP WS-712
			

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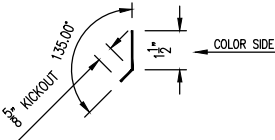
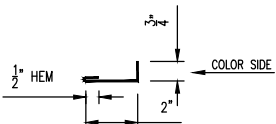
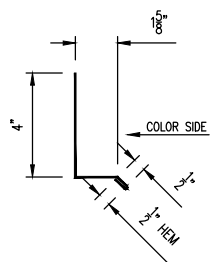
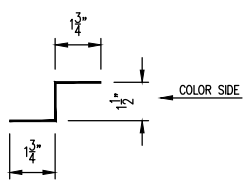
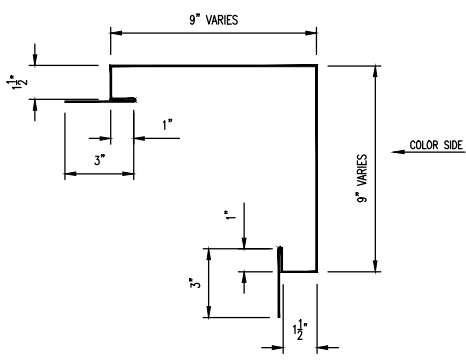
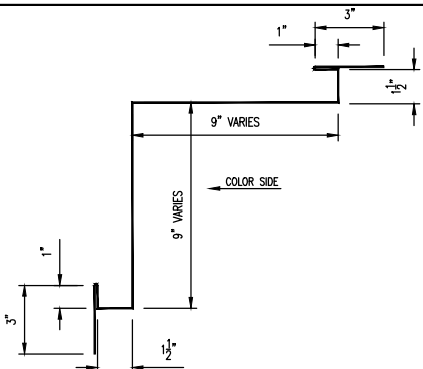
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T- REVEAL ® PANEL

A 07-20-2017

REV: DATE:

DETAIL #:  
TR-WSD-ST1

TRIM CLEAT WS-713	ALTERNATE WALL TRIM WS-714	BASE TRIM WS-715	Z METAL TRIM (SMALL) WS-716
			
CUSTOM OUTSIDE CORNER WS-717	CUSTOM INSIDE CORNER WS-718		
			

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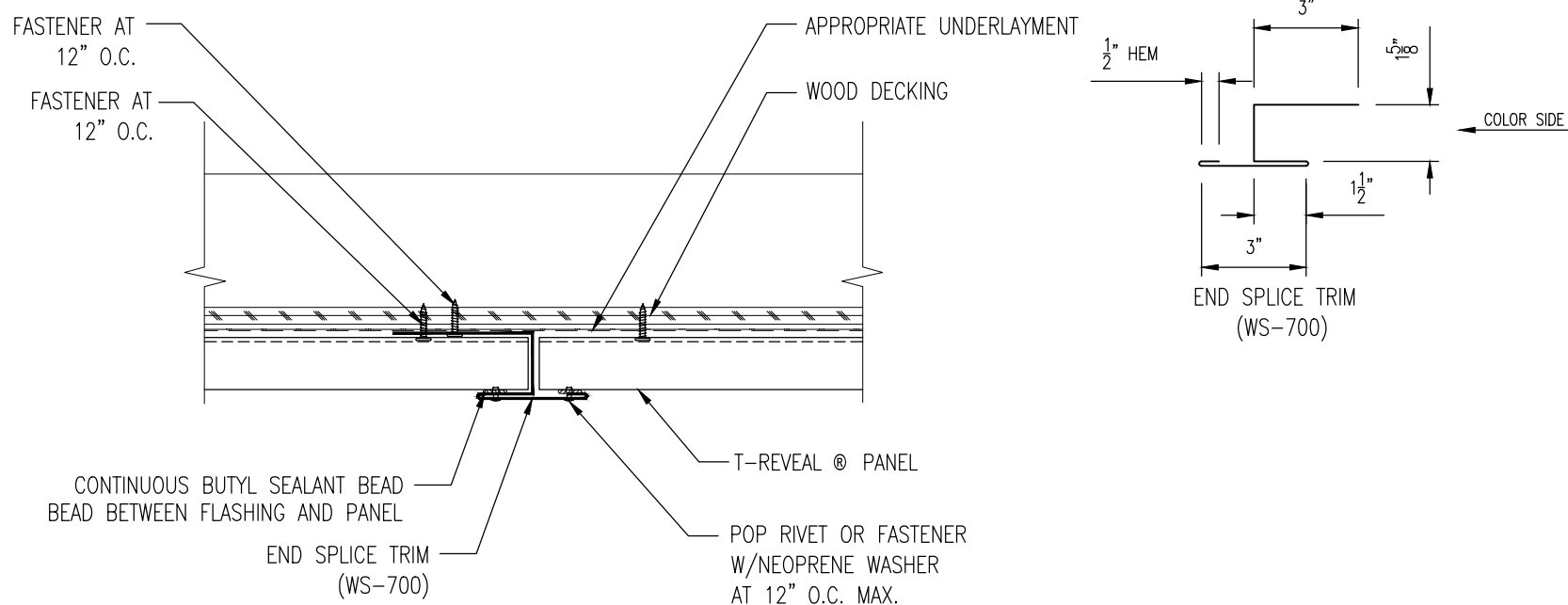
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REV:

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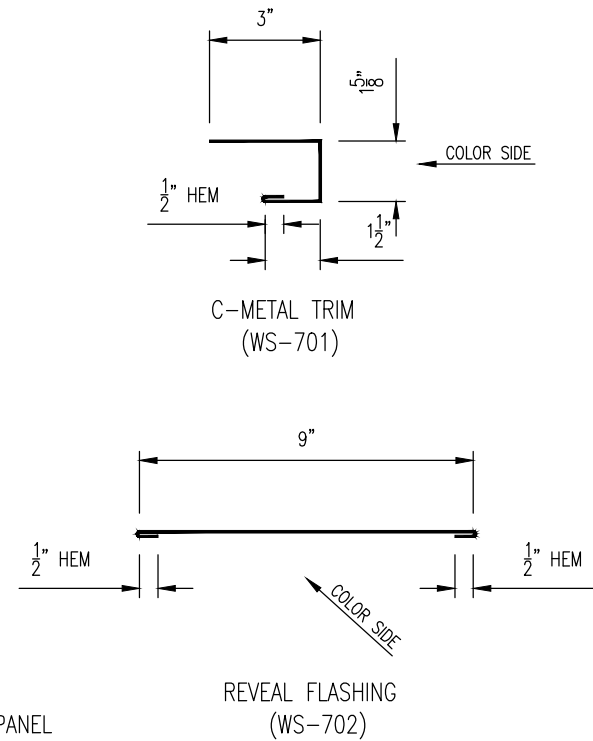
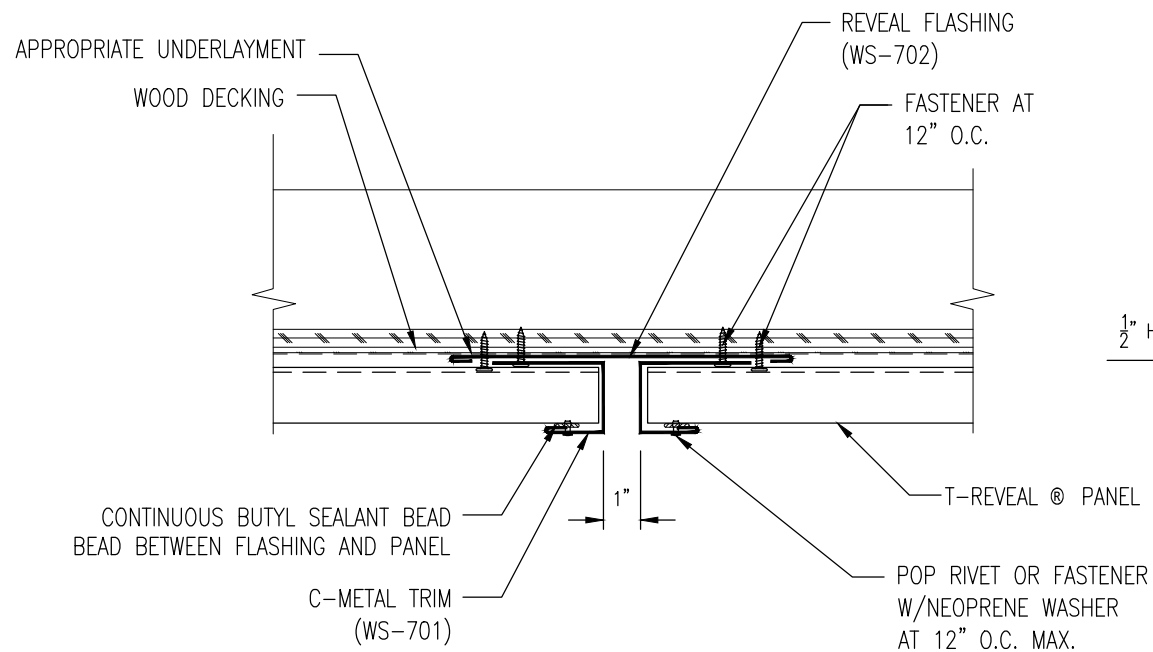


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SOFFIT END SPLICE DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL® PANEL	REV: DATE:
	DETAIL #: TR-WSD-S1

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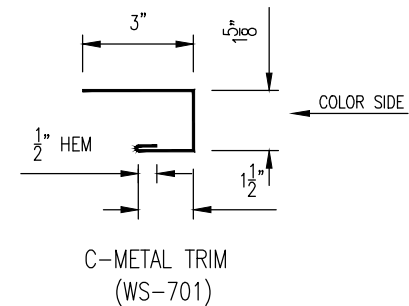
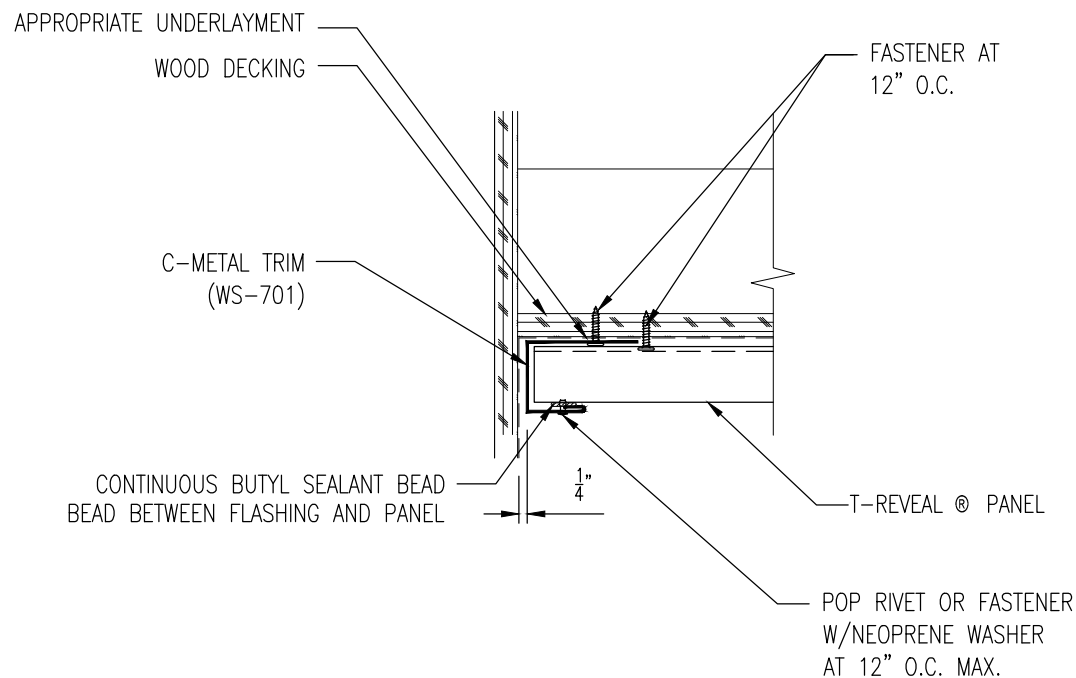
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WALL/SOFFIT END SPLICE DETAIL	
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PANEL TYPE: T- REVEAL ® PANEL	REV: _____
	DATE: _____
	DETAIL #: TR-WSD-SW2

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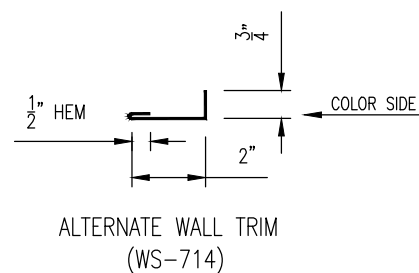
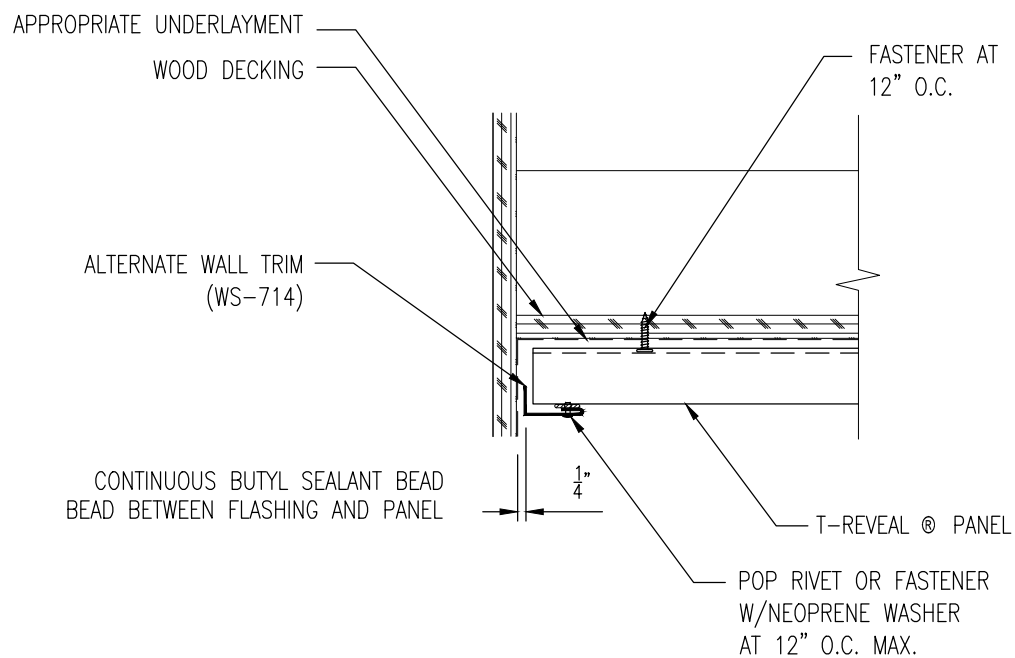


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GAUGE: _____		COLOR: _____	
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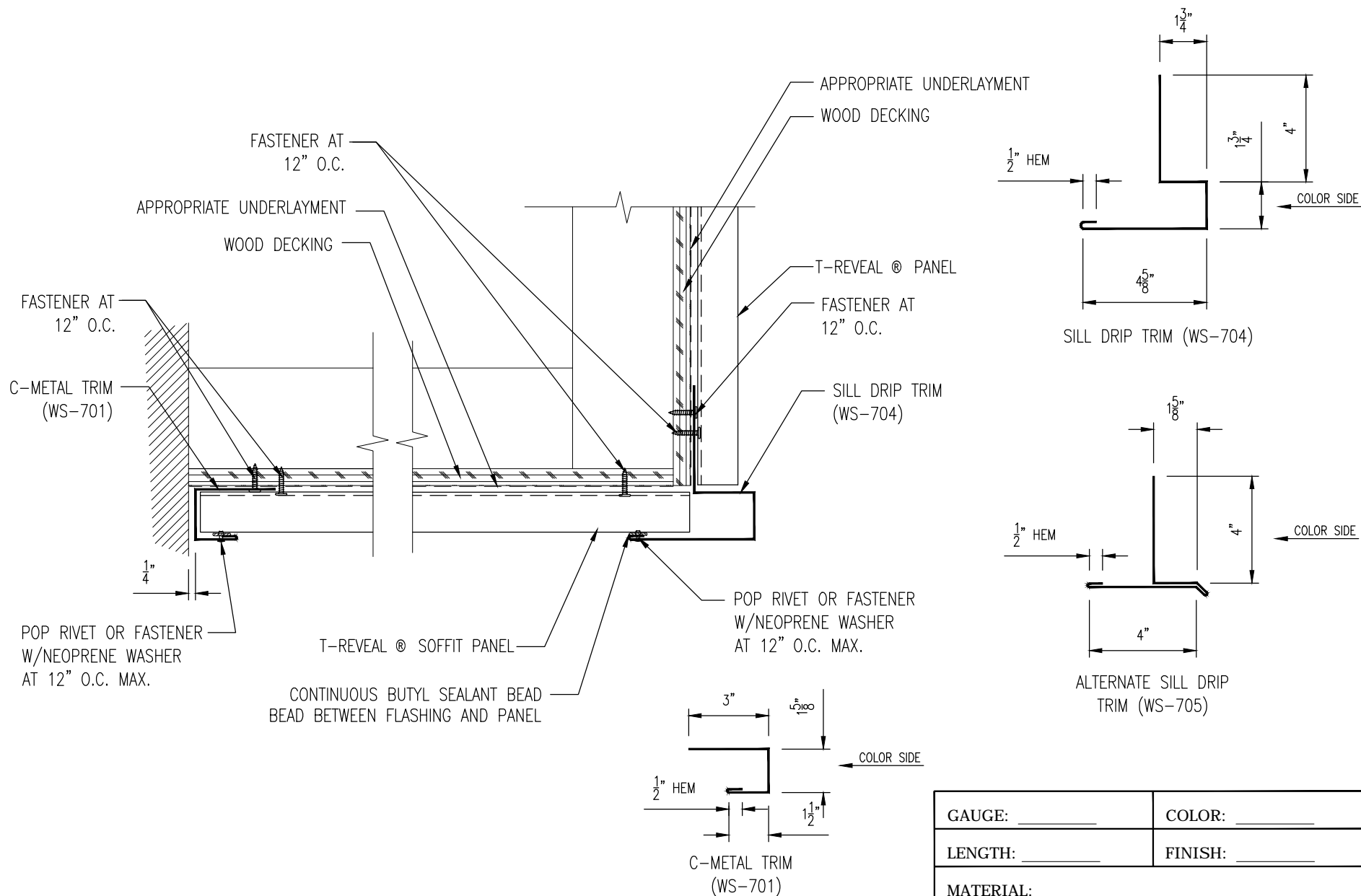


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		DETAIL #: TR-WSD-SW4	

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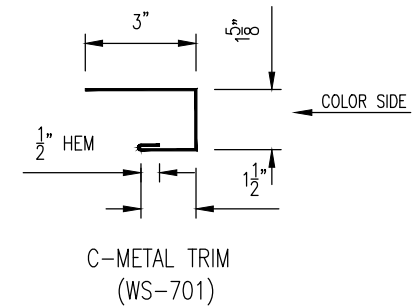
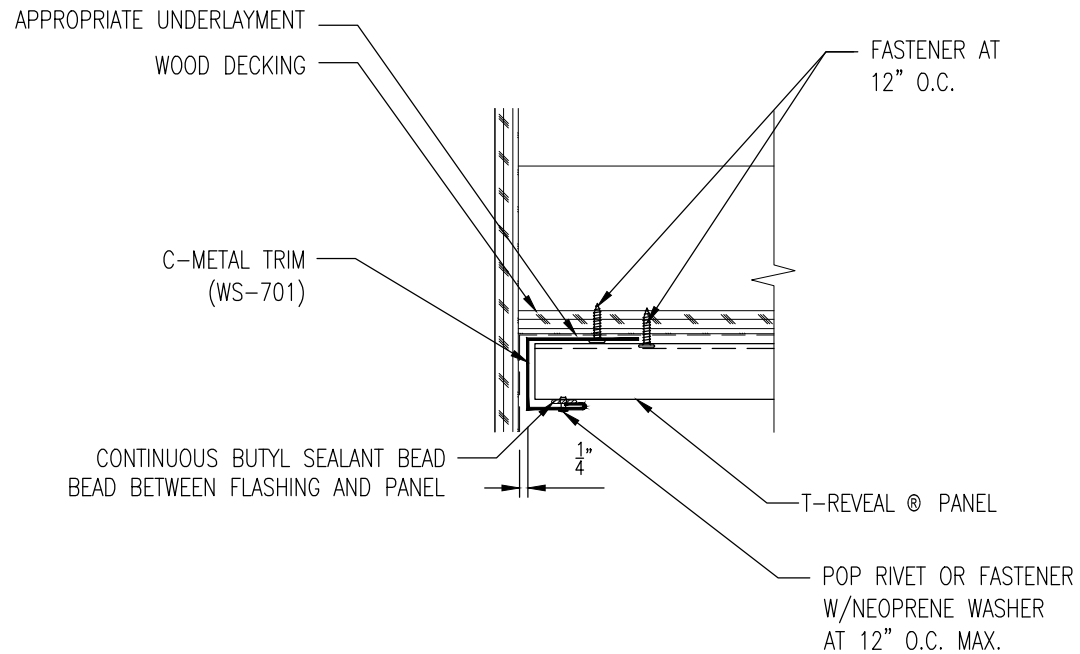


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GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
SOFFIT TO WALL DRIP DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: _____
	DATE: _____
	DETAIL #: TR-WSD-SW5

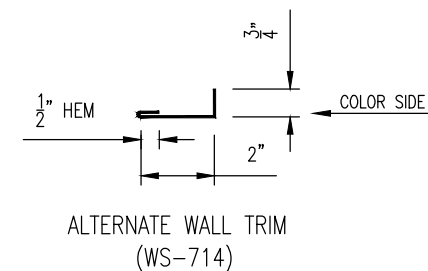
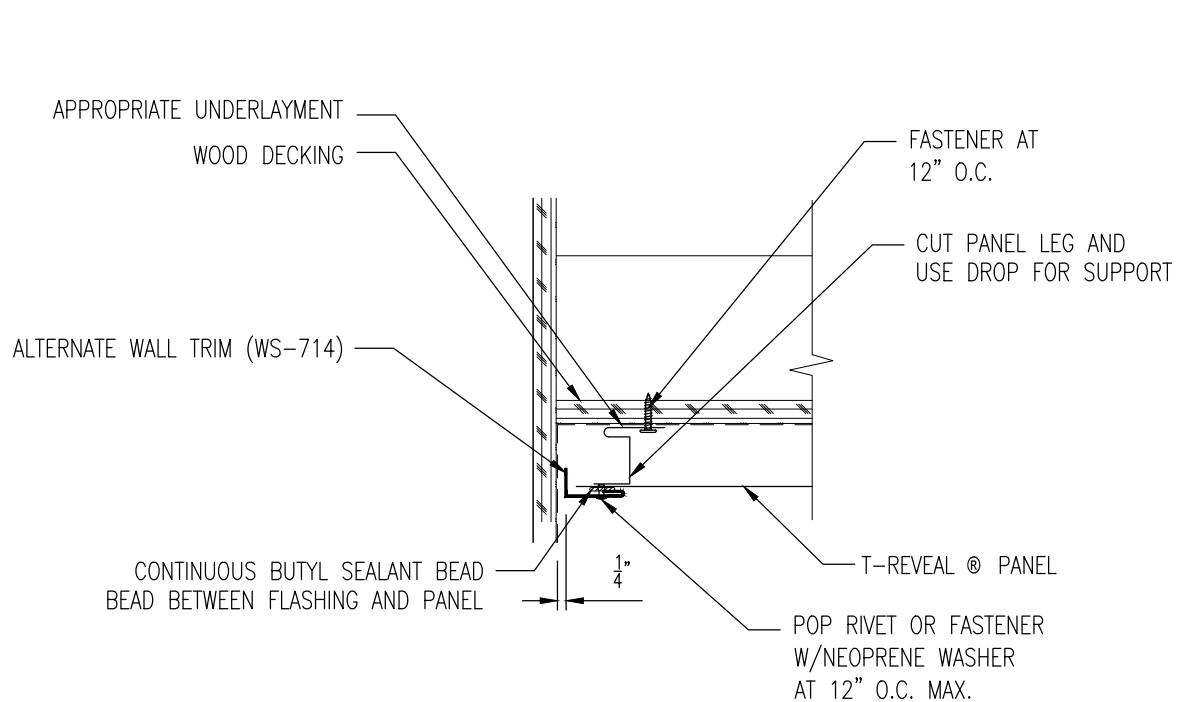


GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
HORIZONTAL SIDING END WALL DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: DATE:
	DETAIL #: TR-WSD-W6

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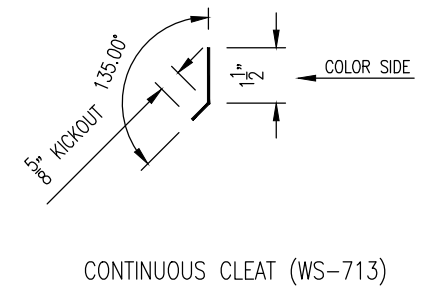
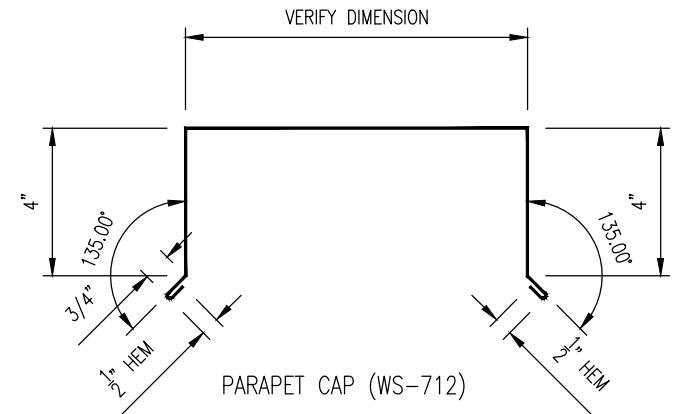
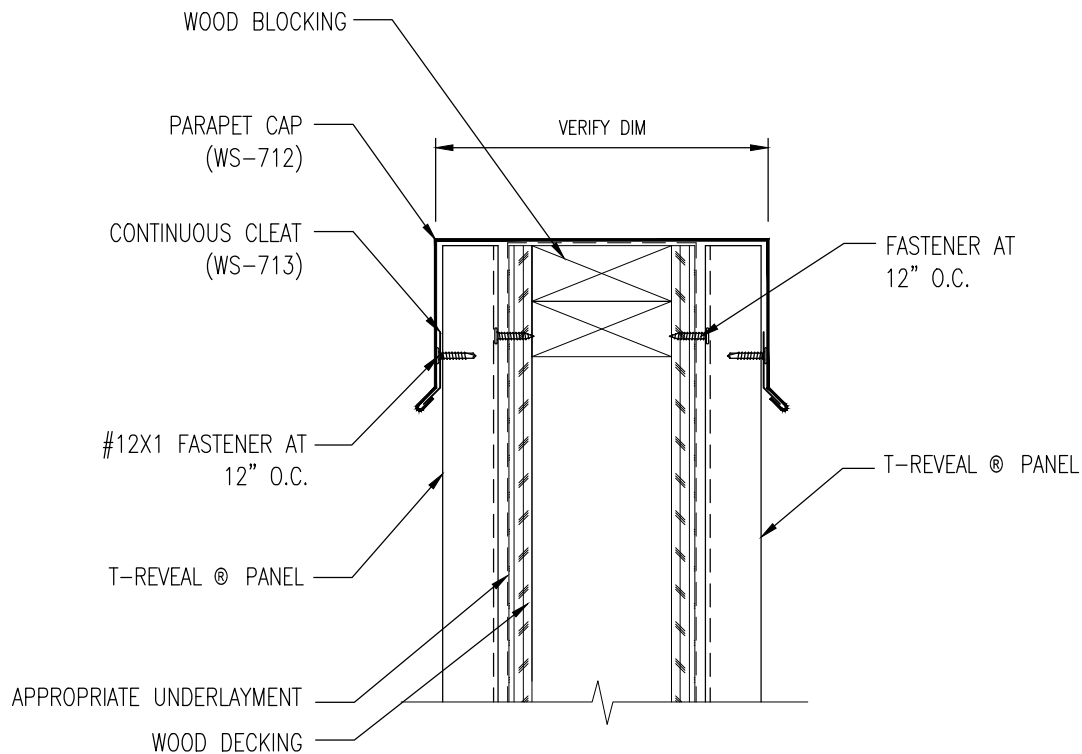


GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
VERTICAL SIDING END WALL DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: _____
	DATE: _____
DETAIL #: TR-WSD-SW7	

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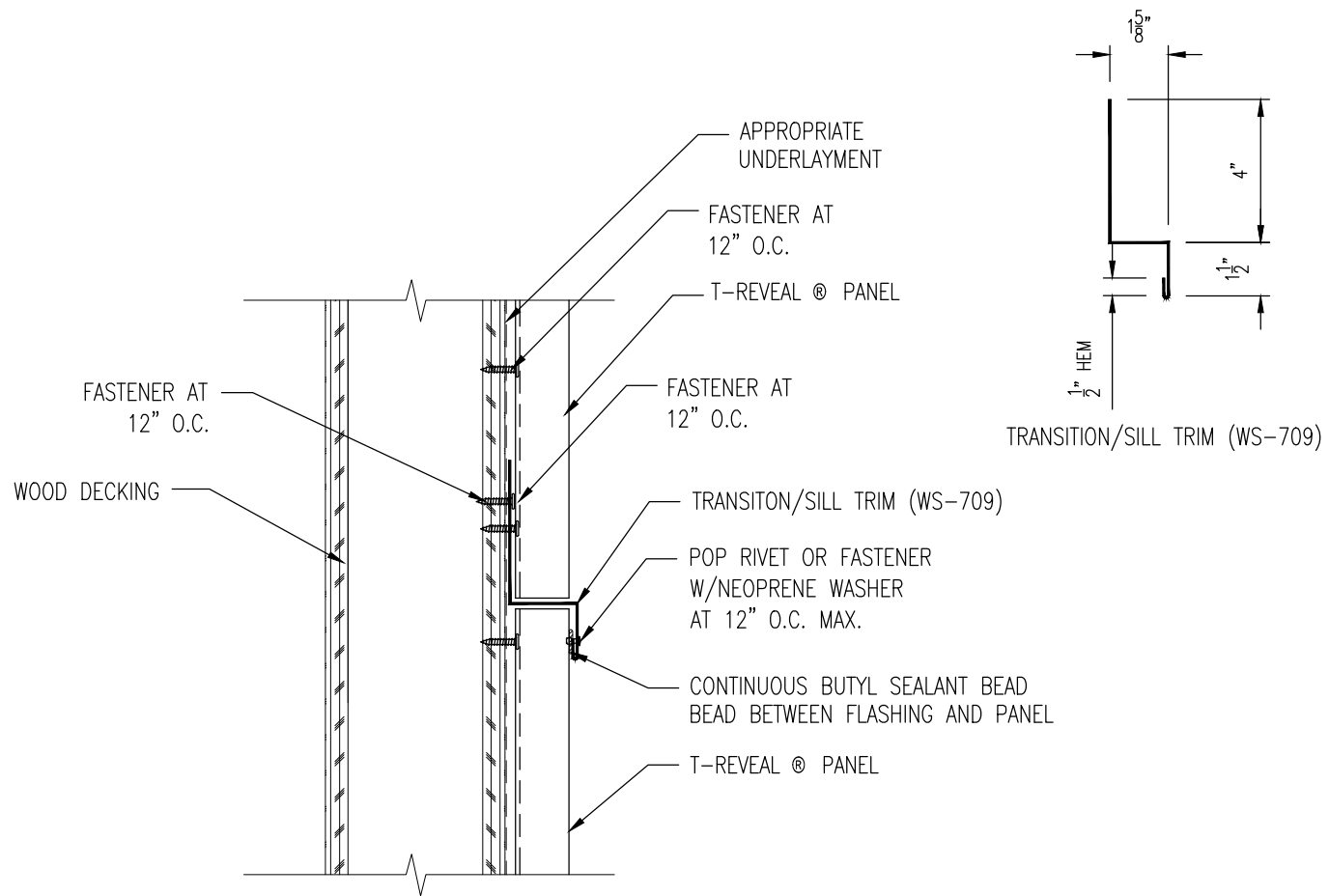


GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
PARAPET WALL DETAIL	
	A 08-11-2017
PANEL TYPE:	REV: DATE:
T- REVEAL ® PANEL	DETAIL #: TR-WSD-SW8

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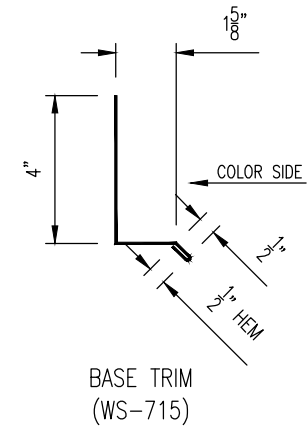
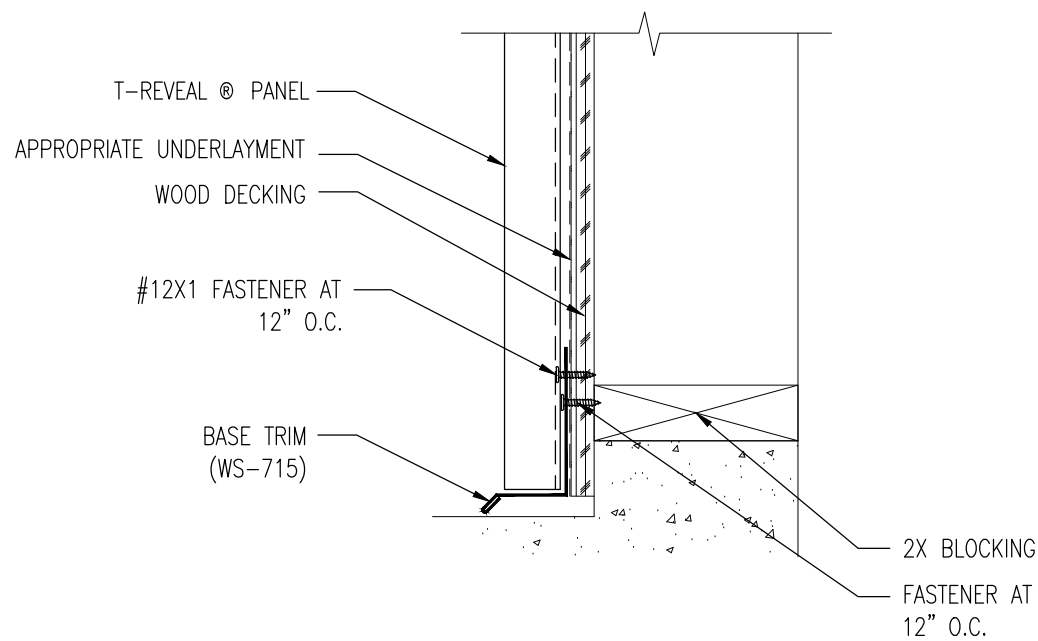


GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
SPLICE / SILL DETAIL			
		A	08-11-2017
PANEL TYPE:  T- REVEAL ® PANEL		REV:	DATE:
		DETAIL #: TR-WSD-W9	

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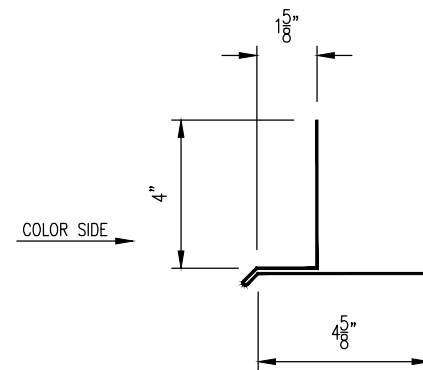
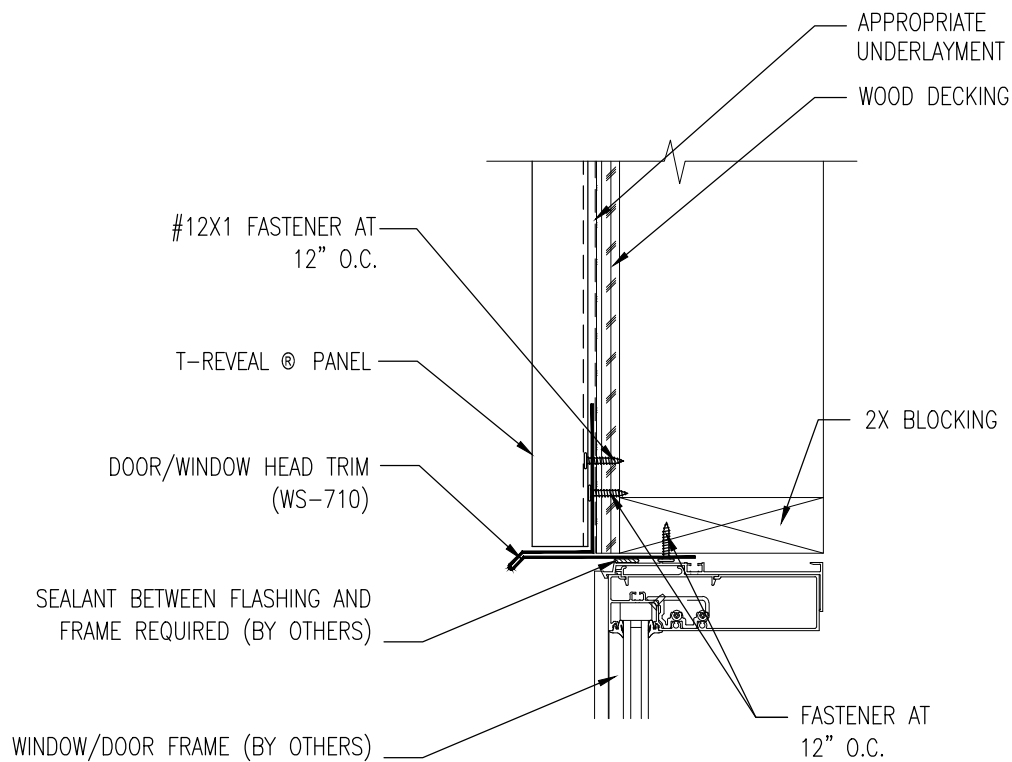
GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
BASE DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: DATE:
	DETAIL #: TR-WSD-W10

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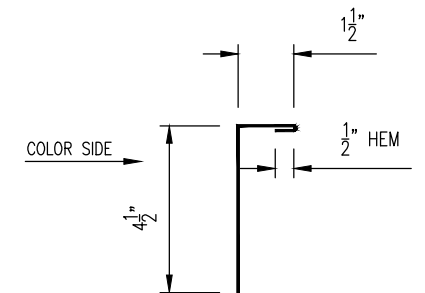
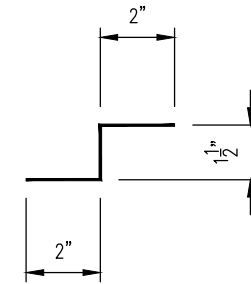
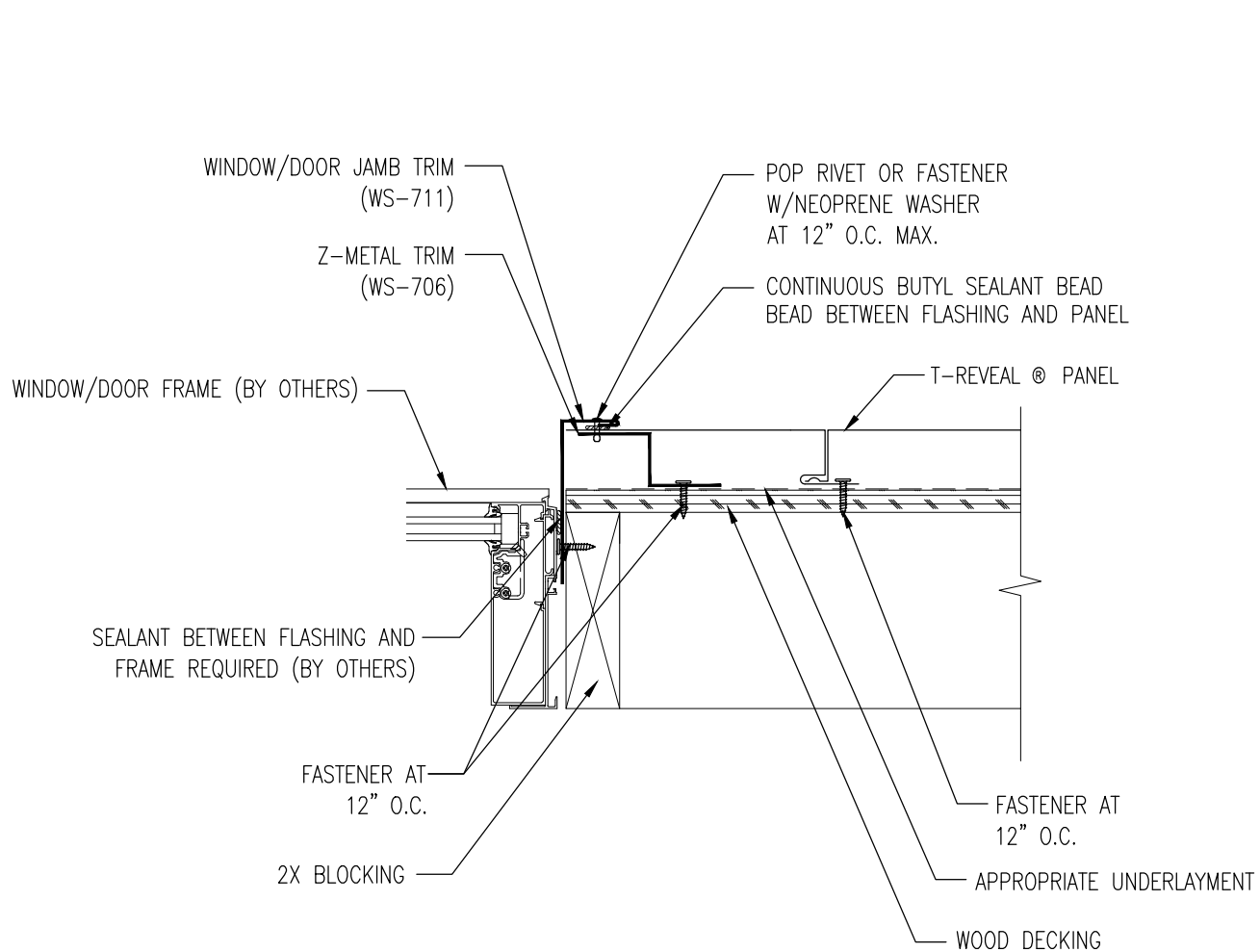
DOOR/WINDOW HEAD TRIM (WS-710)

GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
DOOR / WINDOW SILL AND HEAD DETAIL			
		A	08-11-2017
PANEL TYPE:  T- REVEAL ® PANEL		REV:	DATE:
		DETAIL #: TR-WSD-W11	

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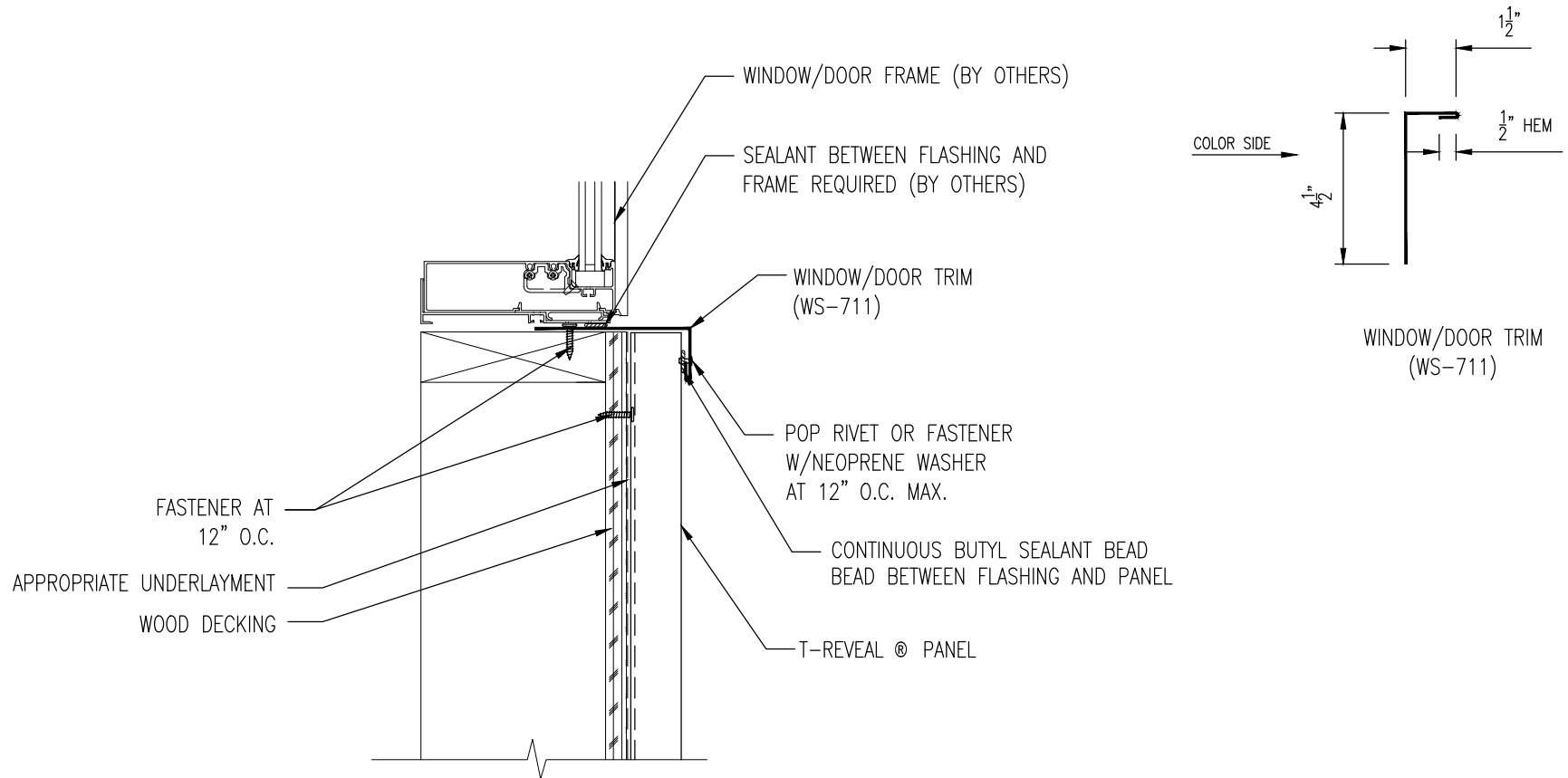


GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
WINDOW / DOOR JAMB DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: DATE:
	DETAIL #: TR-WSD-W12

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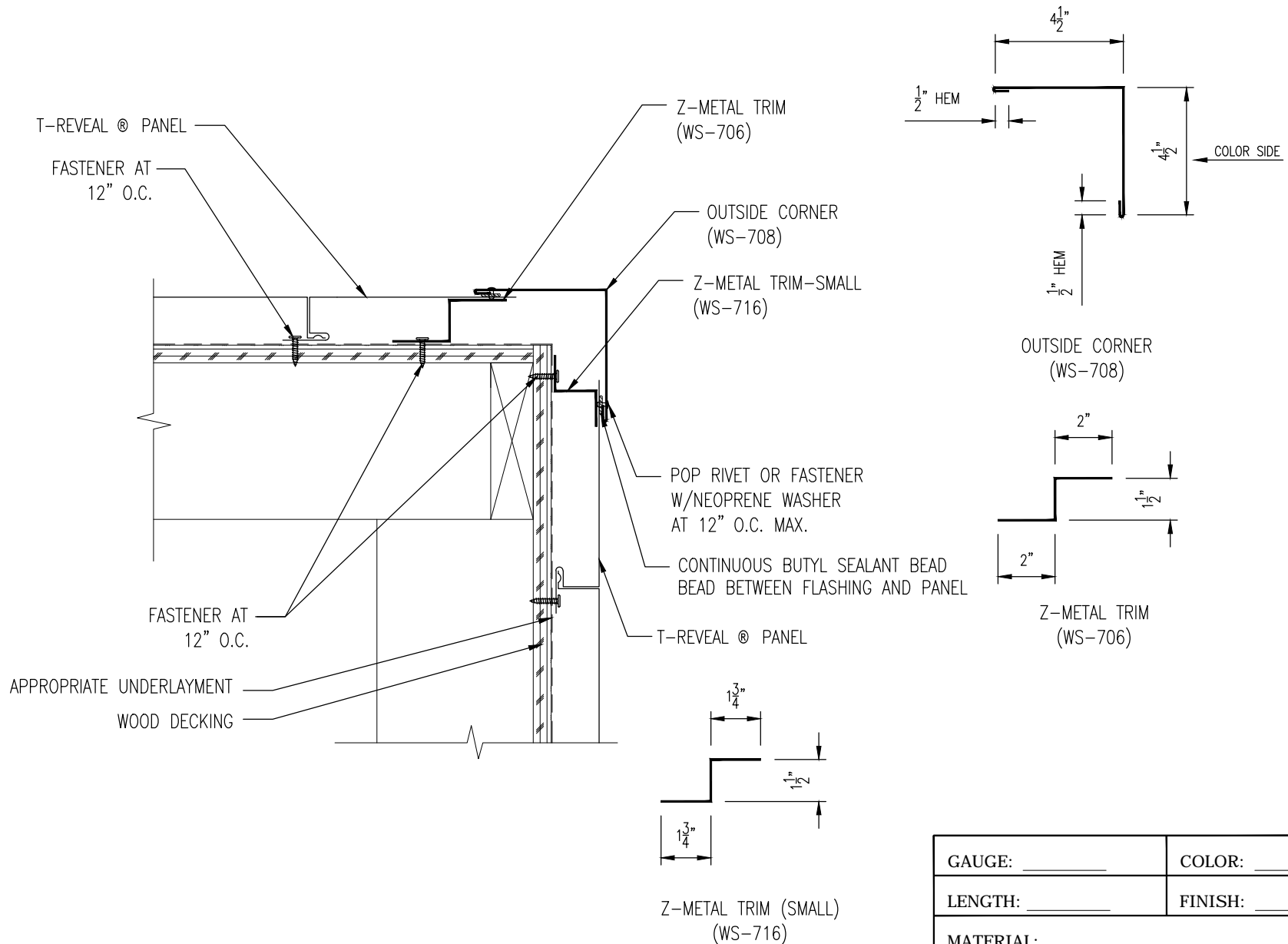


GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
DOOR / WINDOW SILL DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL® PANEL	REV: _____
	DATE: _____
	DETAIL #: TR-WSD-W13

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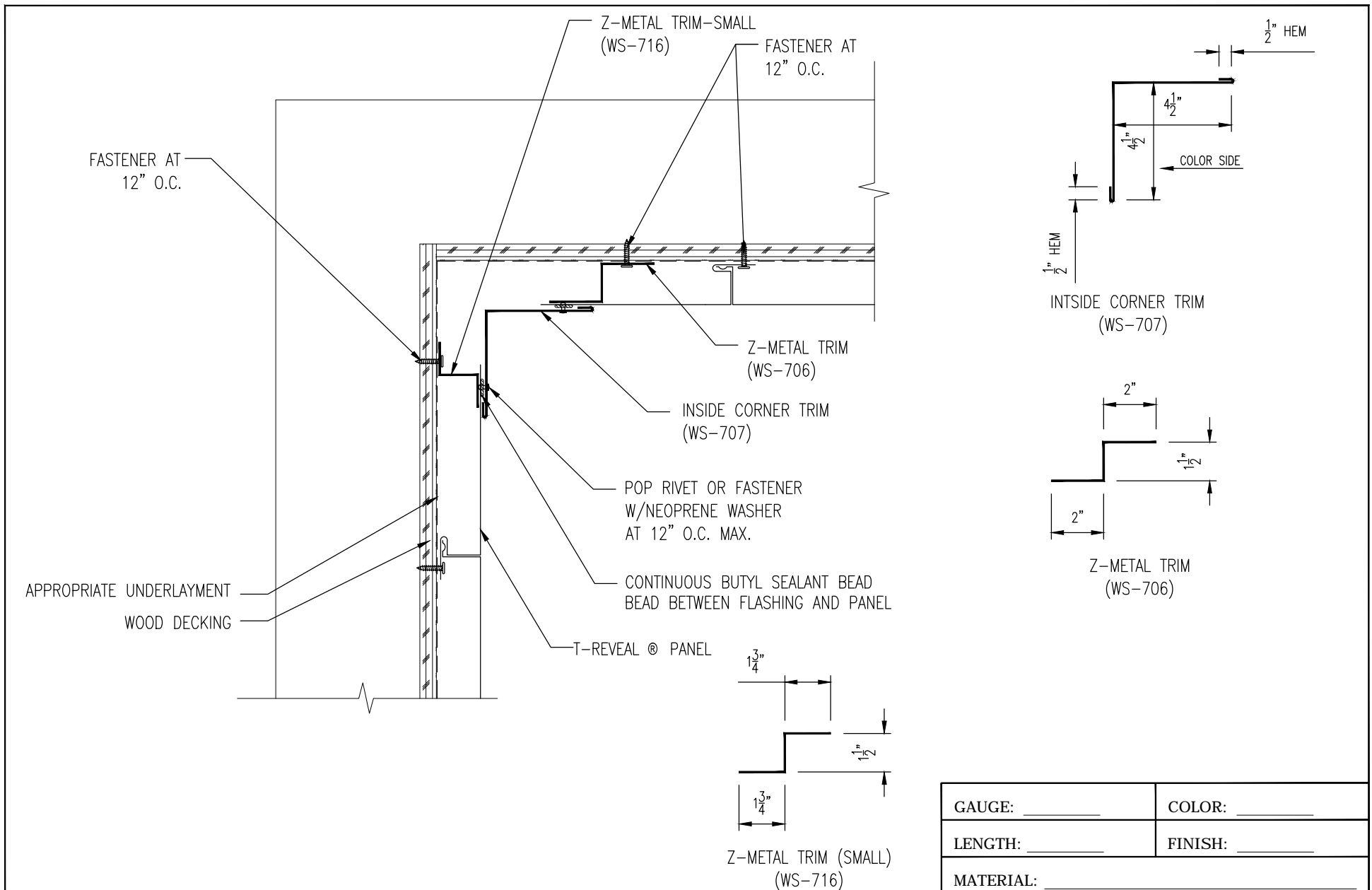


GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
OUTSIDE CORNER DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: _____
	DATE: _____
	DETAIL #: TR-WSD-W14

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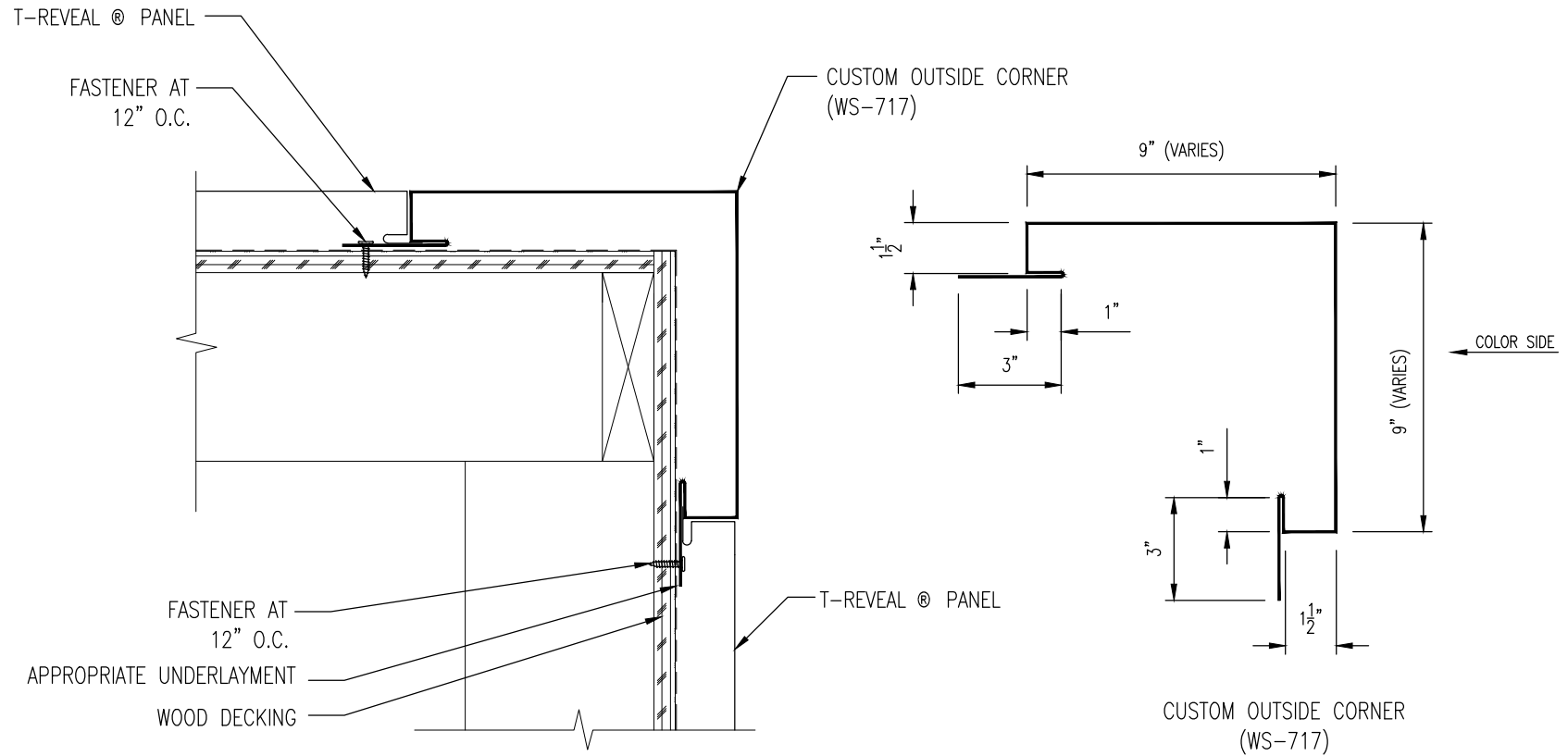


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GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
INSIDE CORNER DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: _____
	DATE: _____
	DETAIL #: TR-WSD-W15

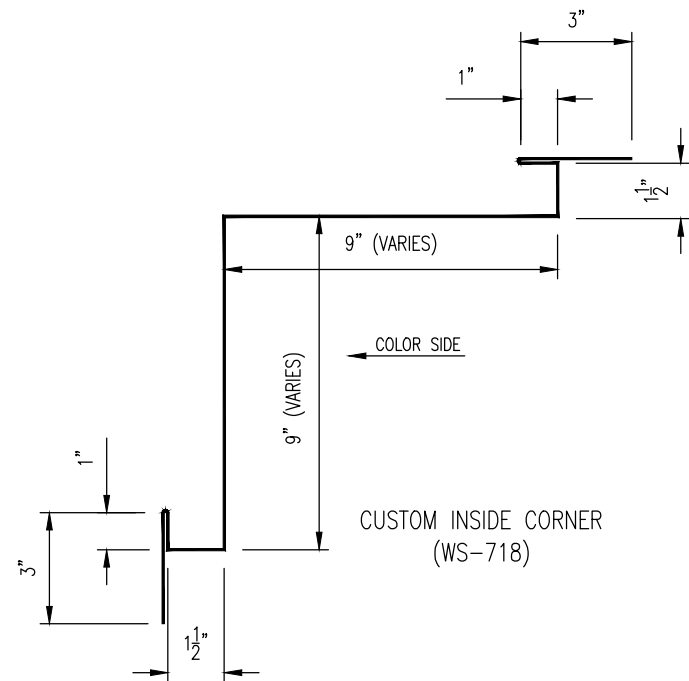
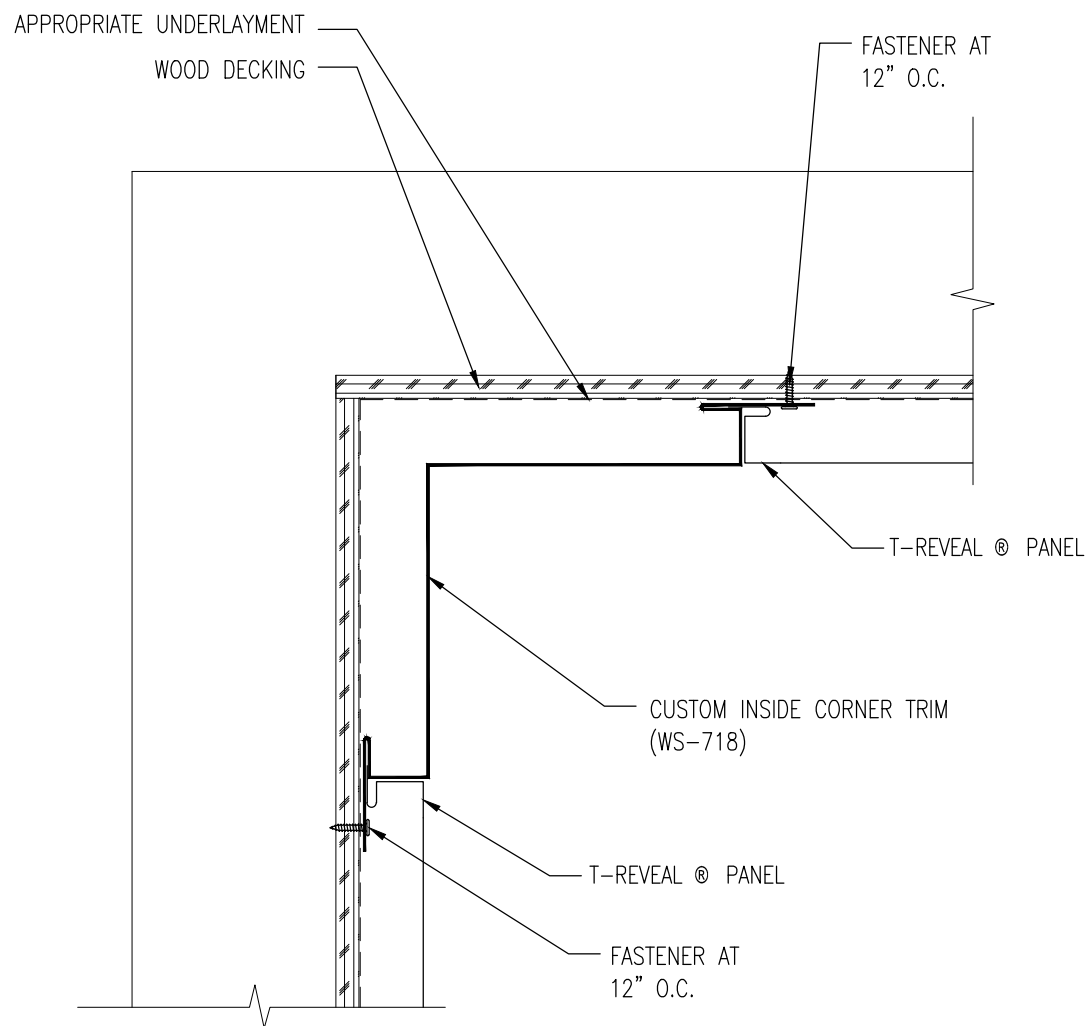


GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
CUSTOM OUTSIDE CORNER DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: DATE:
	DETAIL #: TR-WSD-W16

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GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
CUSTOM INSIDE CORNER DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: DATE:
	DETAIL #: TR-WSD-W17

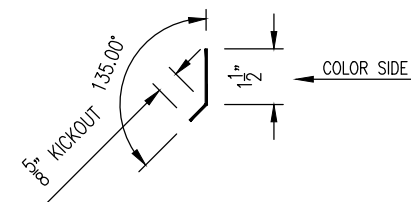
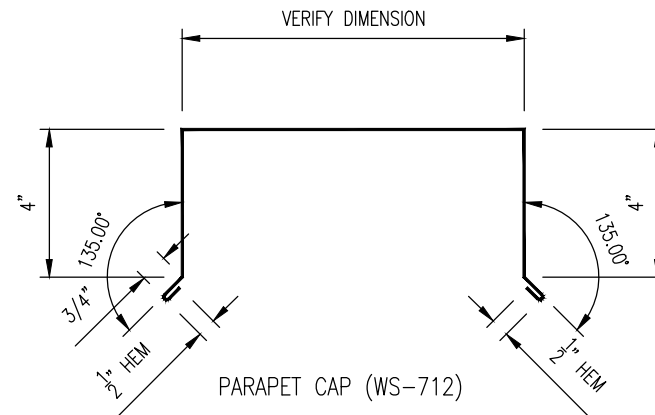
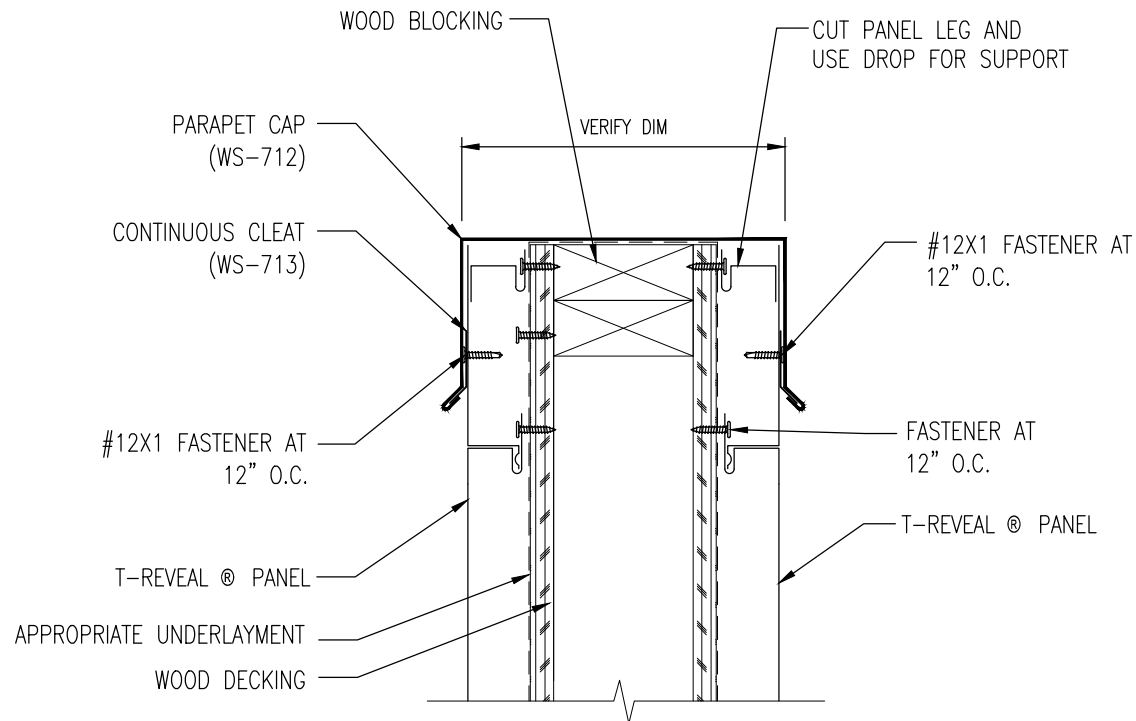
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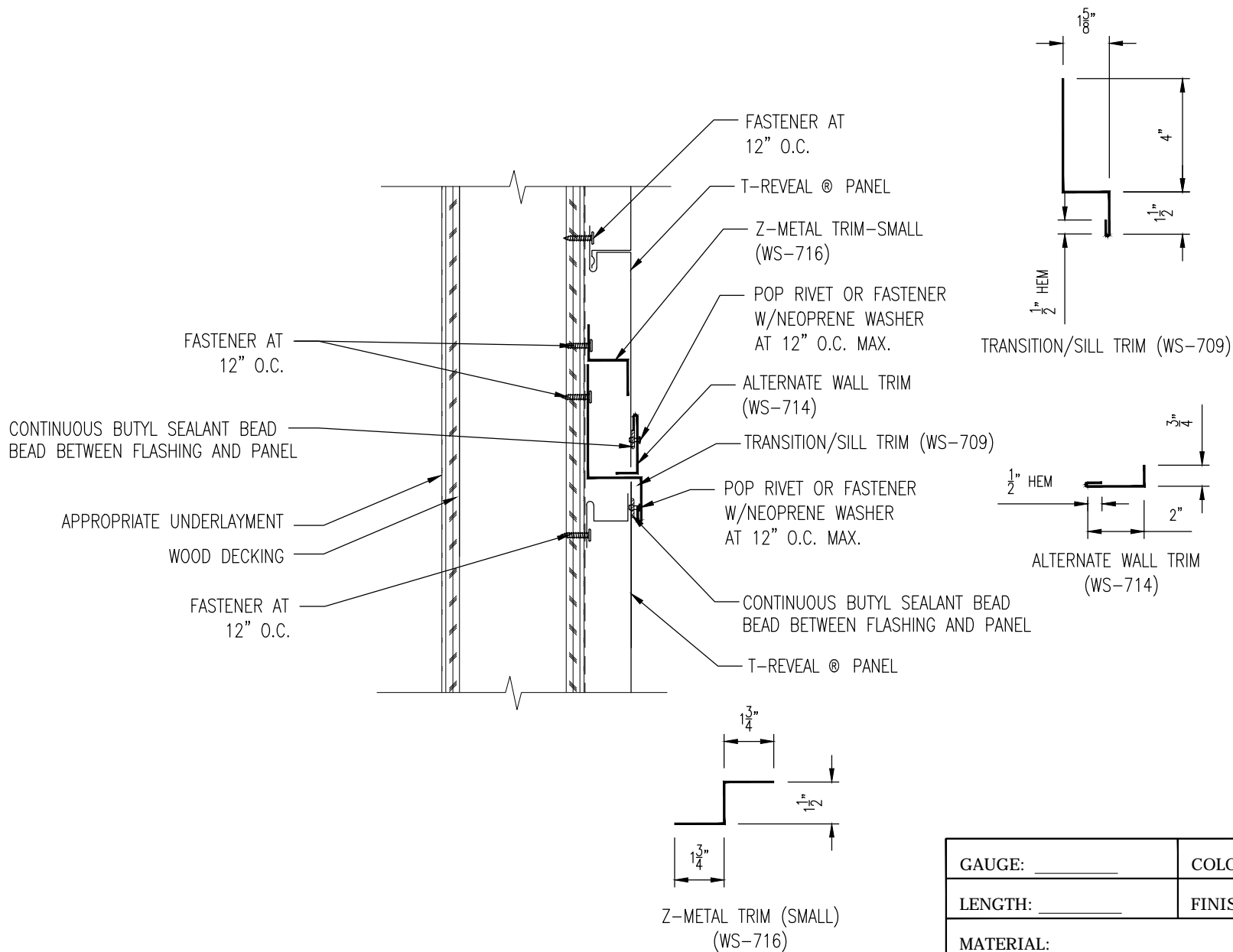
CONTINUOUS CLEAT (WS-713)

GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
PARAPET WALL HORIZONTAL DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: _____
	DATE: _____
	DETAIL #: TR-WSD-W19

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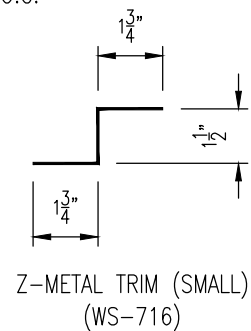
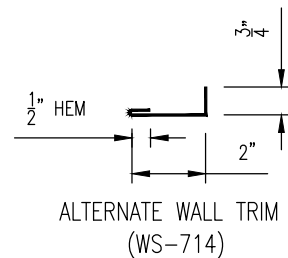
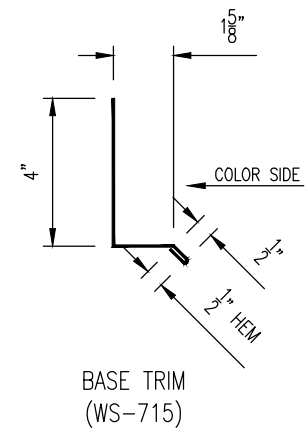
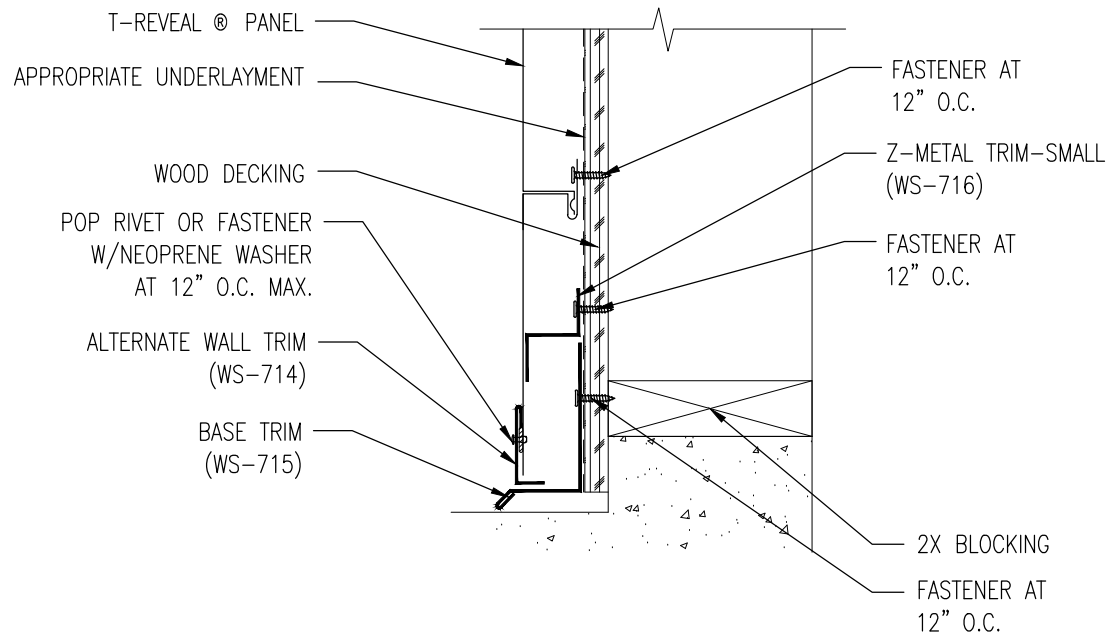


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GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
SPLICE / SILL HORIZONTAL DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: _____
	DATE: _____
DETAIL #: TR-WSD-W20	

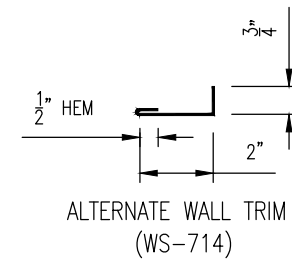
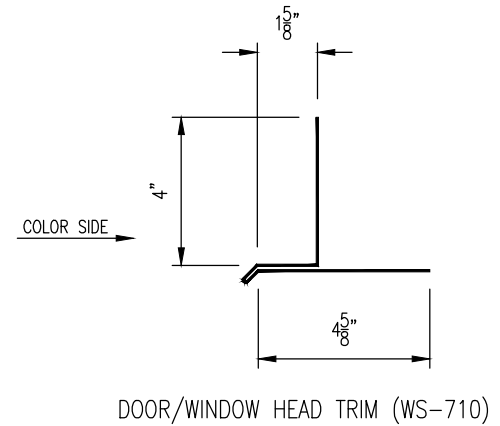
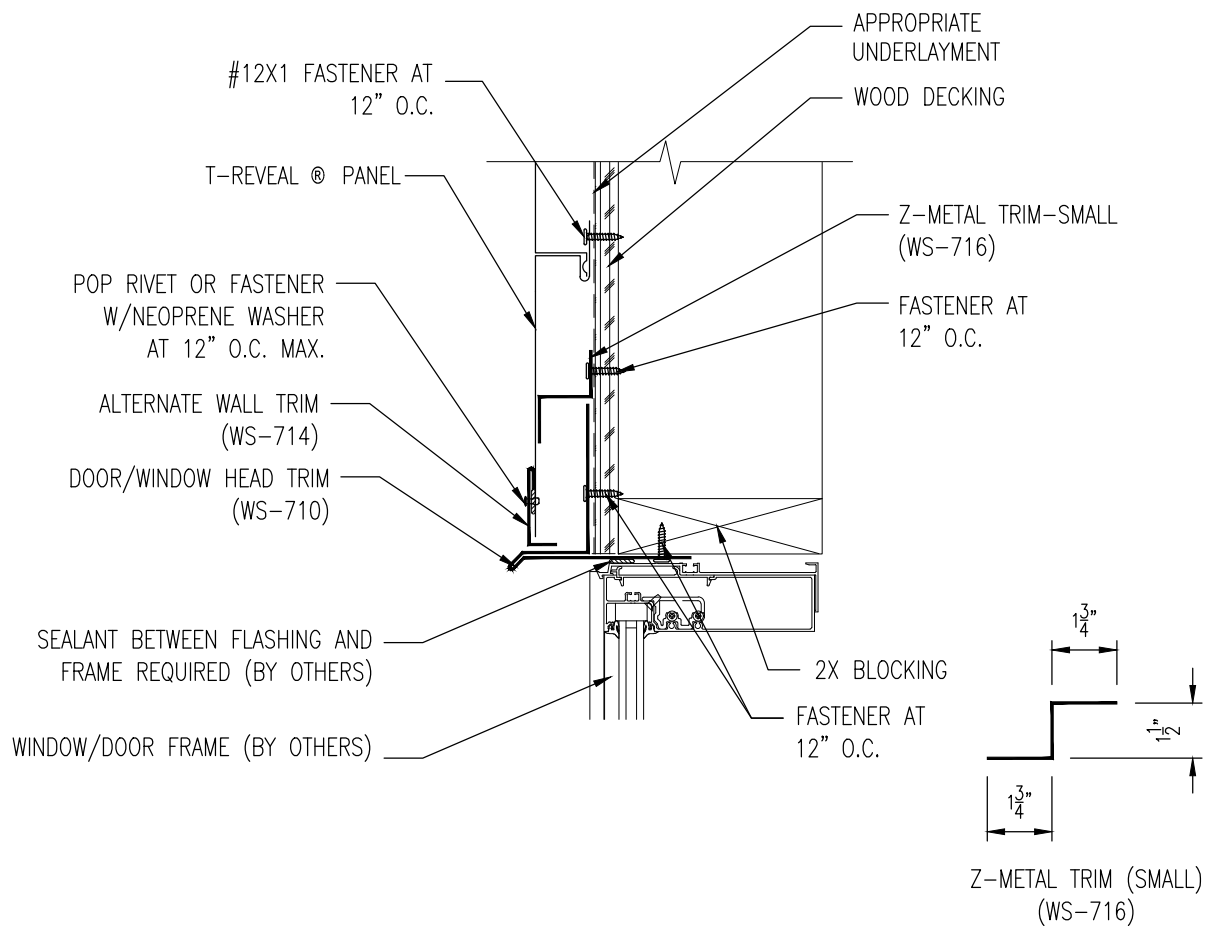


GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
BASE HORIZONTAL DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: DATE:
	DETAIL #: TR-WSD-W21

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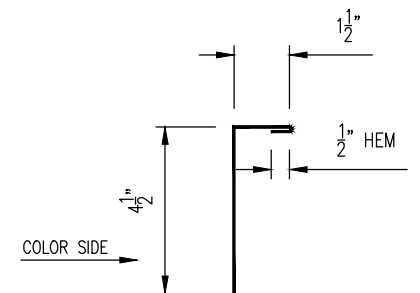
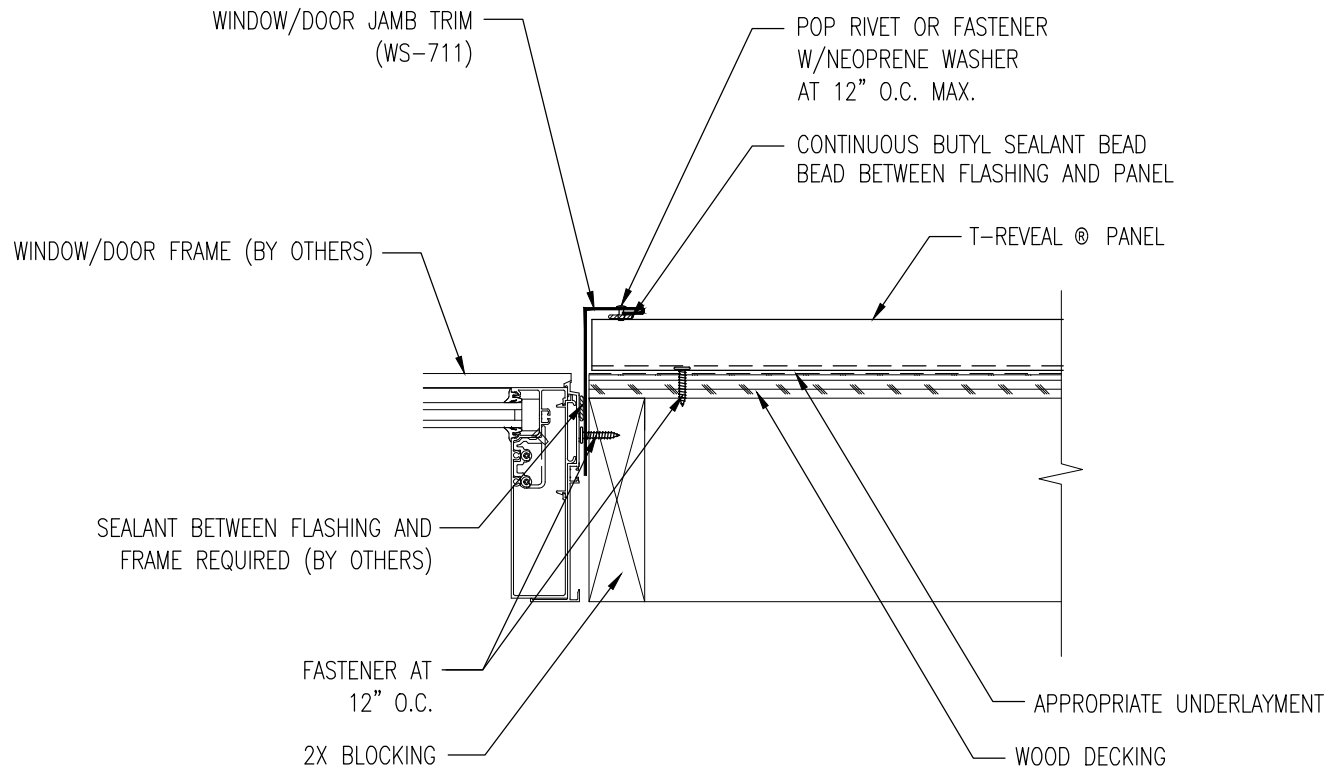


GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
WINDOW / DOOR HEAD HORIZONTAL DETAIL			
		A	08-11-2017
PANEL TYPE:  T- REVEAL ® PANEL		REV:	DATE:
		DETAIL #: TR-WSD-W22	

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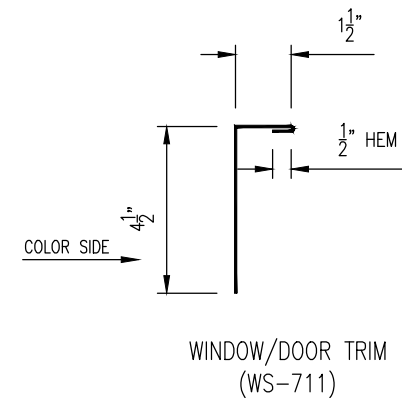
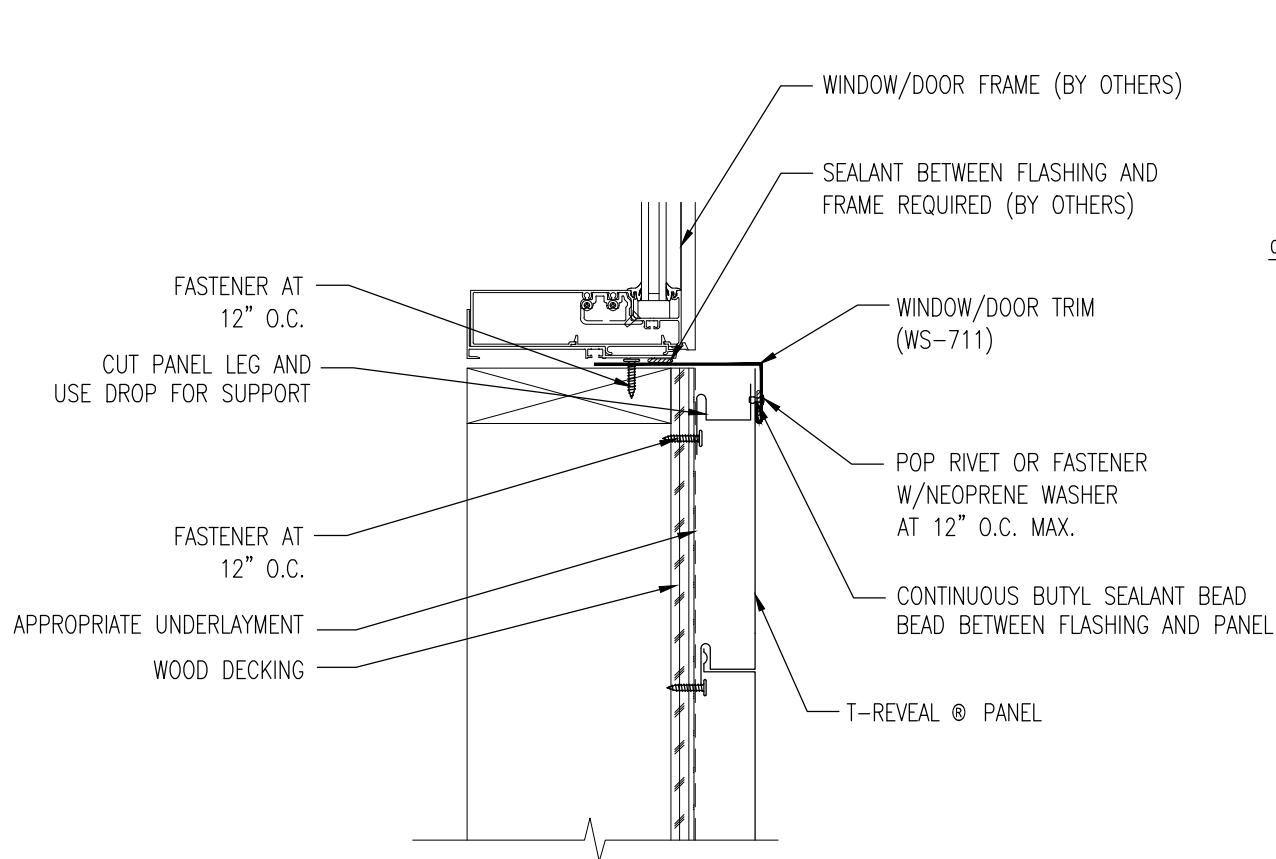
WINDOW/DOOR JAMB TRIM  
(WS-711)

GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
WINDOW / DOOR JAMB HORIZONTAL DETAIL			
		A	08-11-2017
PANEL TYPE:  T- REVEAL ® PANEL		REV:	DATE:
		DETAIL #: TR-WSD-W23	

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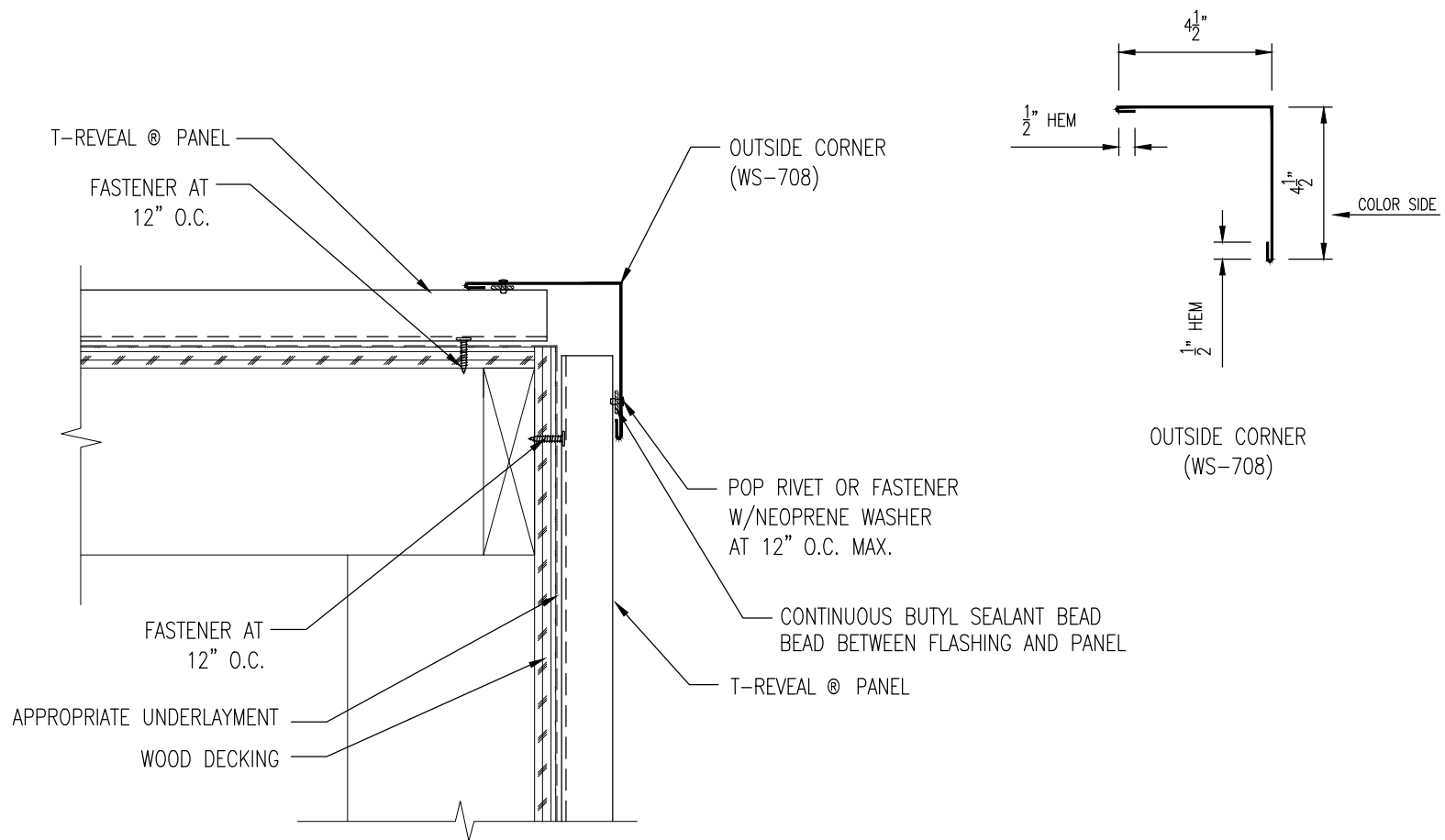


GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
WINDOW / DOOR SILL HORIZONTAL DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: DATE:
	DETAIL #: TR-WSD-W24

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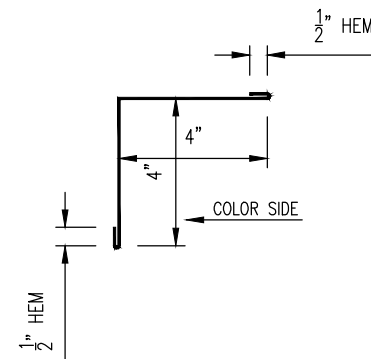
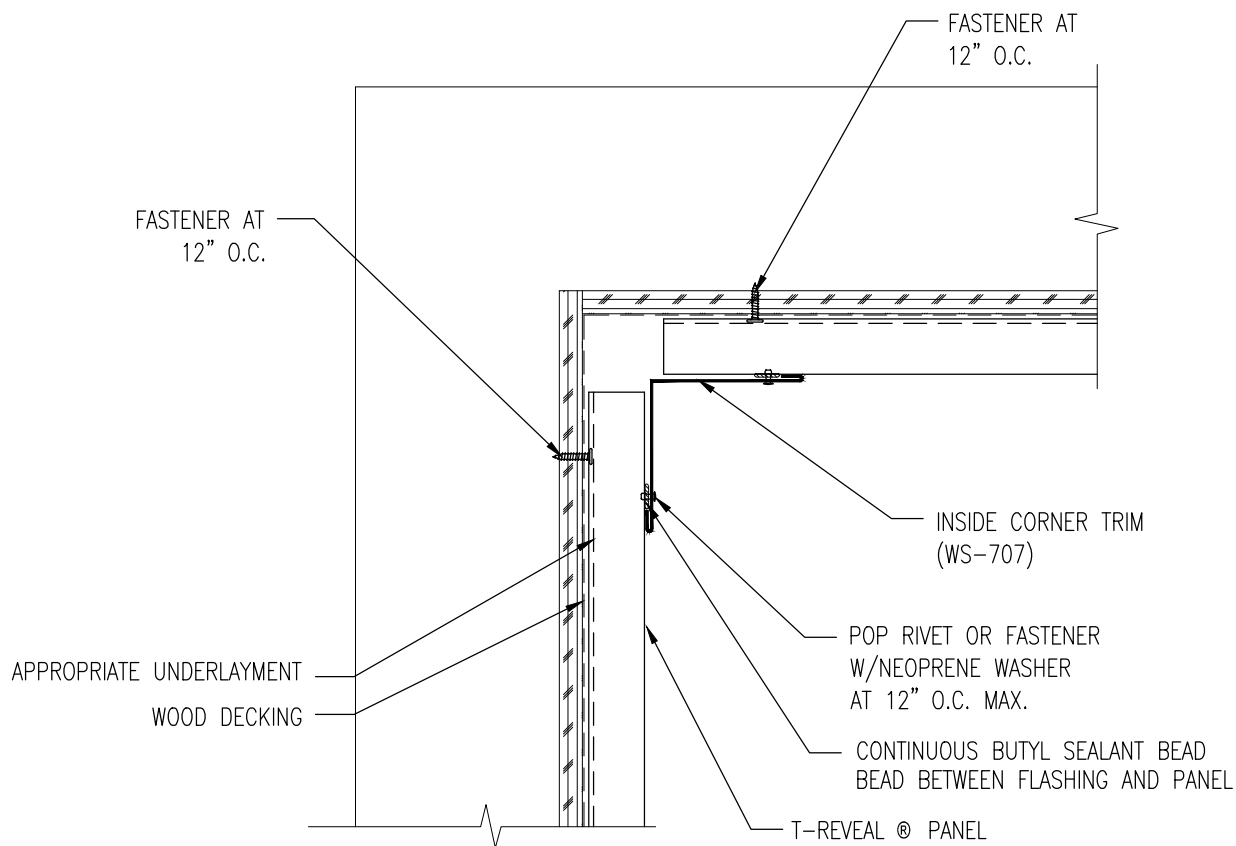


GAUGE: _____		COLOR: _____	
LENGTH: _____		FINISH: _____	
MATERIAL: _____			
OUTSIDE CORNER HORIZONTAL DETAIL			
		A	08-11-2017
PANEL TYPE:  T- REVEAL ® PANEL		REV:	DATE:
		DETAIL #: TR-WSD-W25	

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INSIDE CORNER TRIM  
(WS-707)

GAUGE: _____	COLOR: _____
LENGTH: _____	FINISH: _____
MATERIAL: _____	
INSIDE CORNER HORIZONTAL DETAIL	
	A 08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV: DATE:
	DETAIL #: TR-WSD-W26

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# NOTES:

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### NOTES

PANEL TYPE:

T- REVEAL ® PANEL

A

08-11-2017

REV:

DATE:

DETAIL #:

TR-WSD-MN

## CUSTOM TRIM

GAUGE: _____	COLOR: _____	
BREAKS: _____	FINISH: _____	
LENGTH: _____	STRETCH OUT: _____	
MATERIAL: _____		
CUSTOM TRIM NAME: _____		
	A	08-11-2017
PANEL TYPE: T- REVEAL ® PANEL	REV:	DATE:
	DETAIL #: TR-WSD-CT	

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## Western States "T-Reveal" ® 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, such as A606-4 (Corten) which requires a High Temperature underlayment. It is best to consult your Design Engineer for recommendations.

### 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

Normal panel width of T-Reveal panels are 12". Please consult with your WSDI 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.Metalforroofing.com](http://WWW.Metalforroofing.com)



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