

WESTERN STATES METAL ROOFING

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WESTERN REVEAL®

INSTALLATION GUIDE WITH TRIM, FLASHINGS AND DETAILS













Western States "Western Reveal ®" Wall and Soffit Panels

Installation, Flashings & Shop Drawing Detail Guide

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Western States "Western 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

"Western 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 "Western 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.

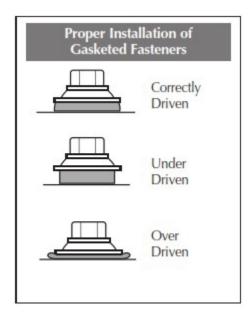
Panels and flashings should never be installed in contact with dissimilar metals. Use only those flashings and accessories designed for use with this panel.

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 "Western Reveal" ® Panel

Installation, Flashings & Shop Drawing Detail Guide

Fastener Selection

Description Application

Used to attach Trims . 14 x 7/8" Lap Self tap Stainless to be used with

14 x7/8 Lap Stainless A606-4 Steel



#10-12 x1" Pancake head

Wood

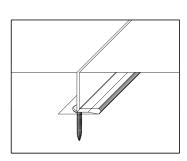
1/8" Stainless Rivets

#10-12 x 1" SD PH Self Driller

Steel

Used to attach Panel. Used to secure trims to substrates. Also available in

Stainless Steel.





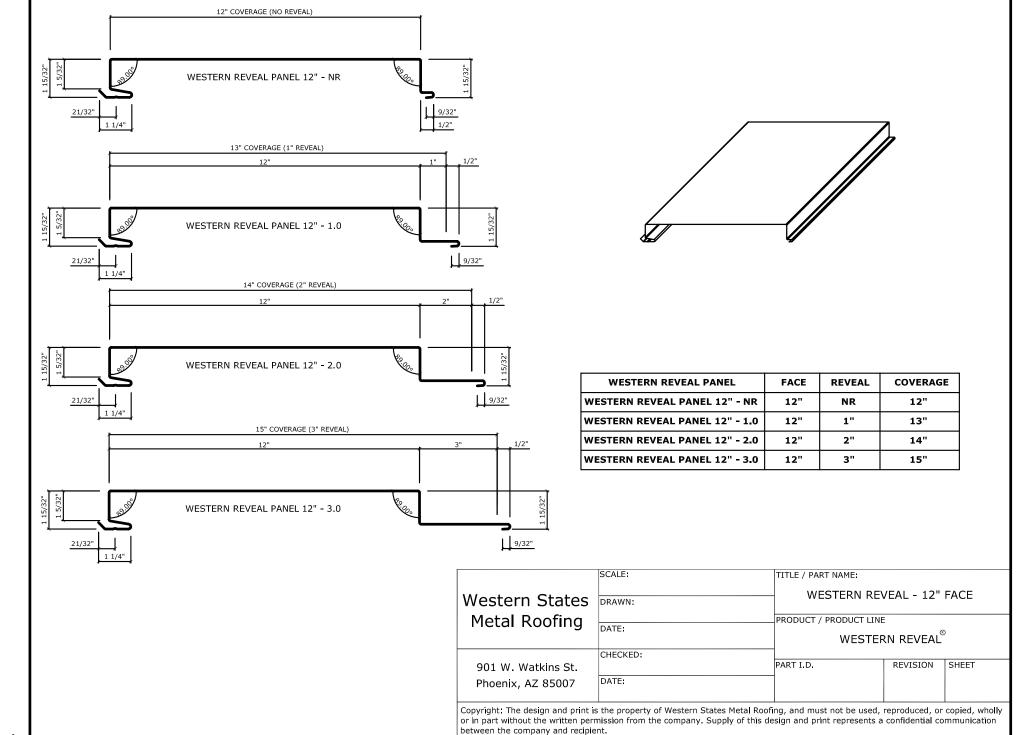
Used for Trim to Trim

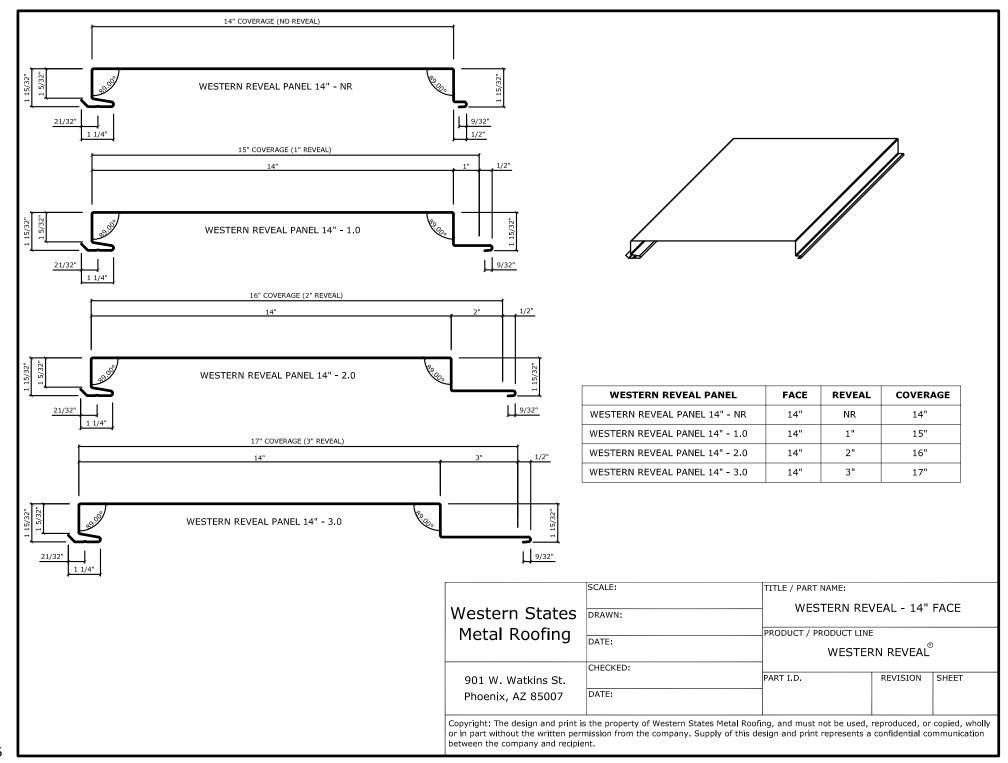
attachment or trim to wall

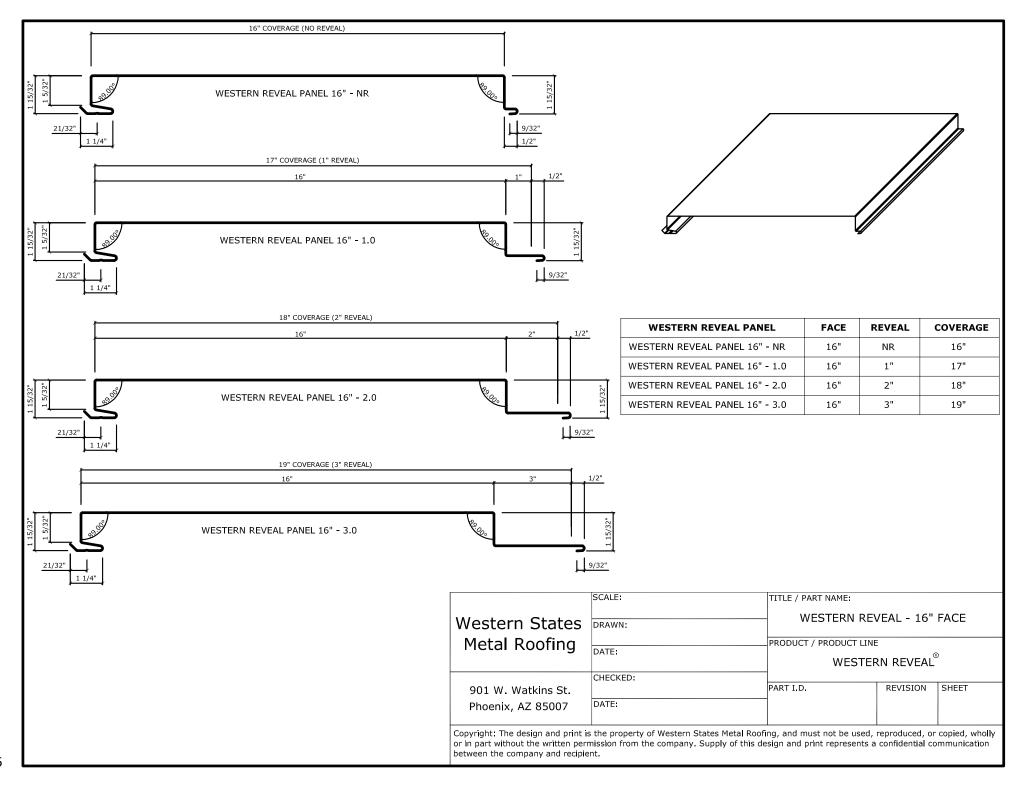
panels.

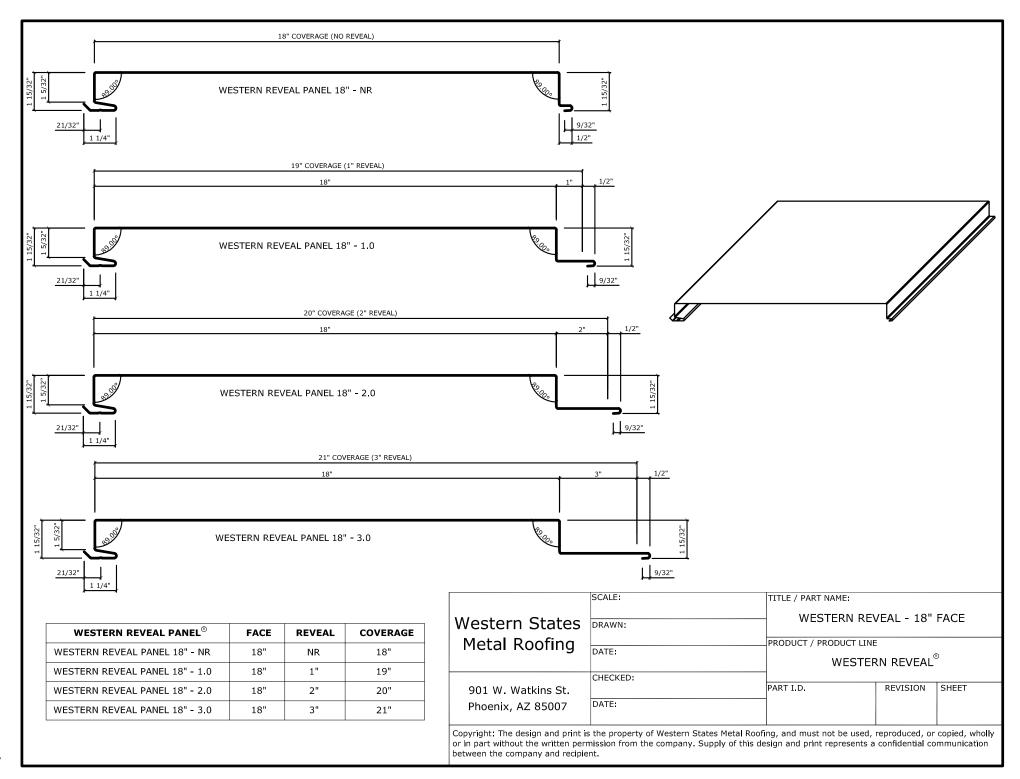


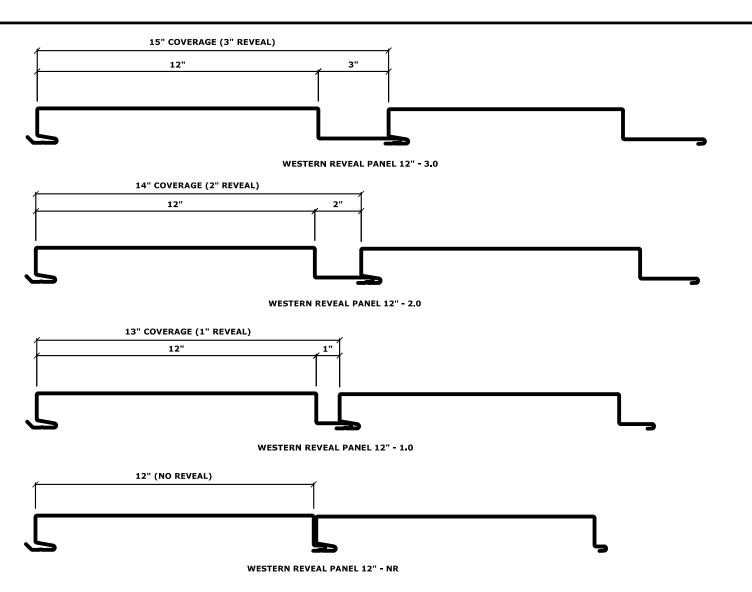
The table above shows the panel Fasteners provided by WSD. Special order screws are available.





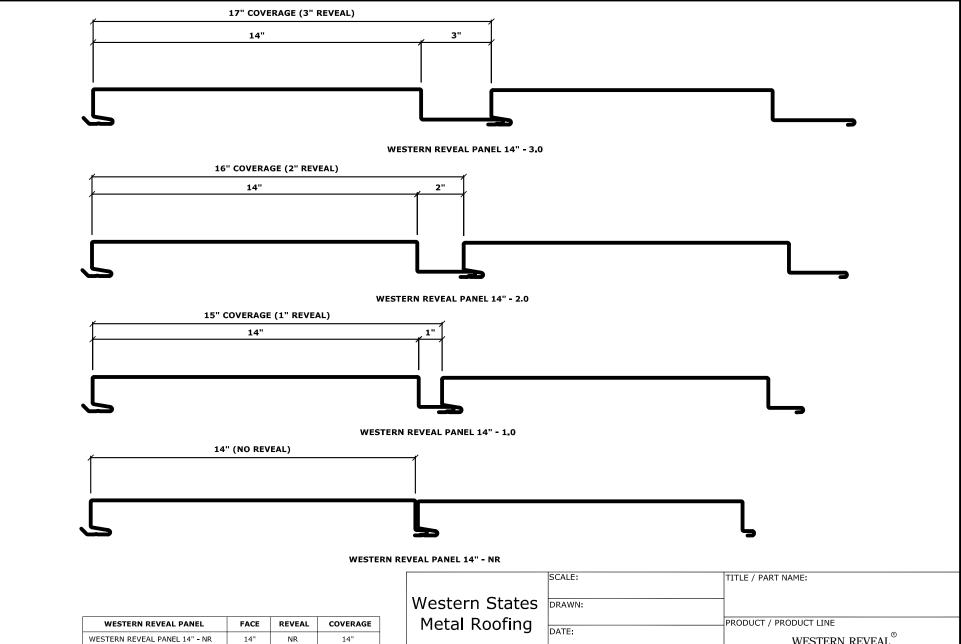






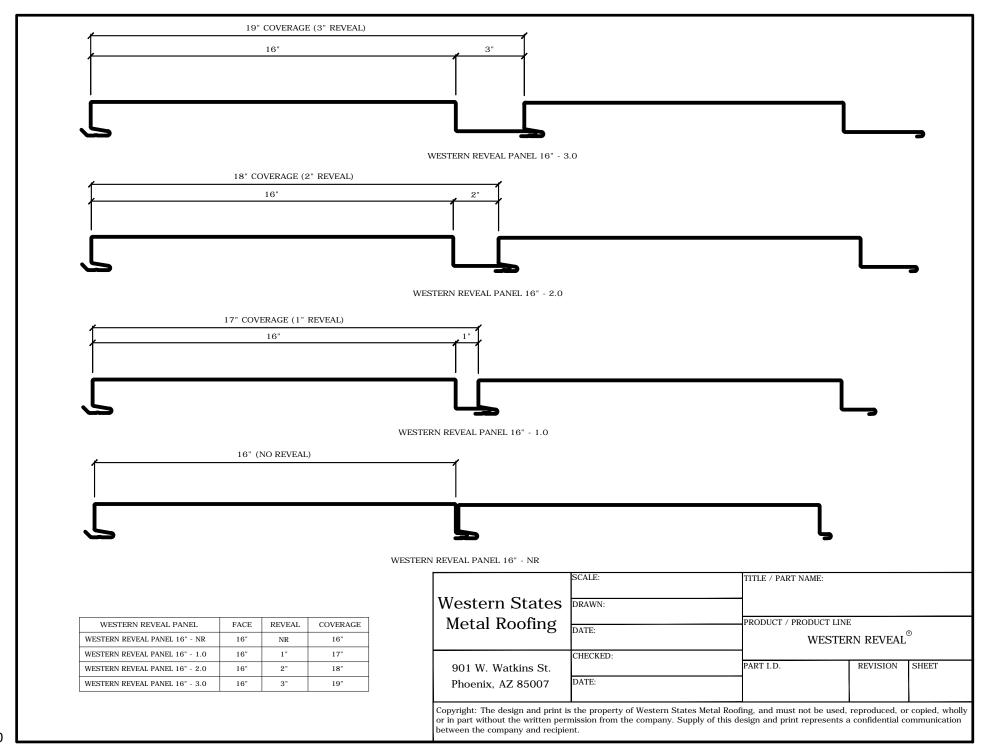
WESTERN REVEAL PANEL	FACE	REVEAL	COVERAGE
WESTERN REVEAL PANEL 12" - NR	12"	NR	12"
WESTERN REVEAL PANEL 12" - 1.0	12"	1"	13"
WESTERN REVEAL PANEL 12" - 2.0	12"	2"	14"
WESTERN REVEAL PANEL 12" - 3.0	12"	3"	15"

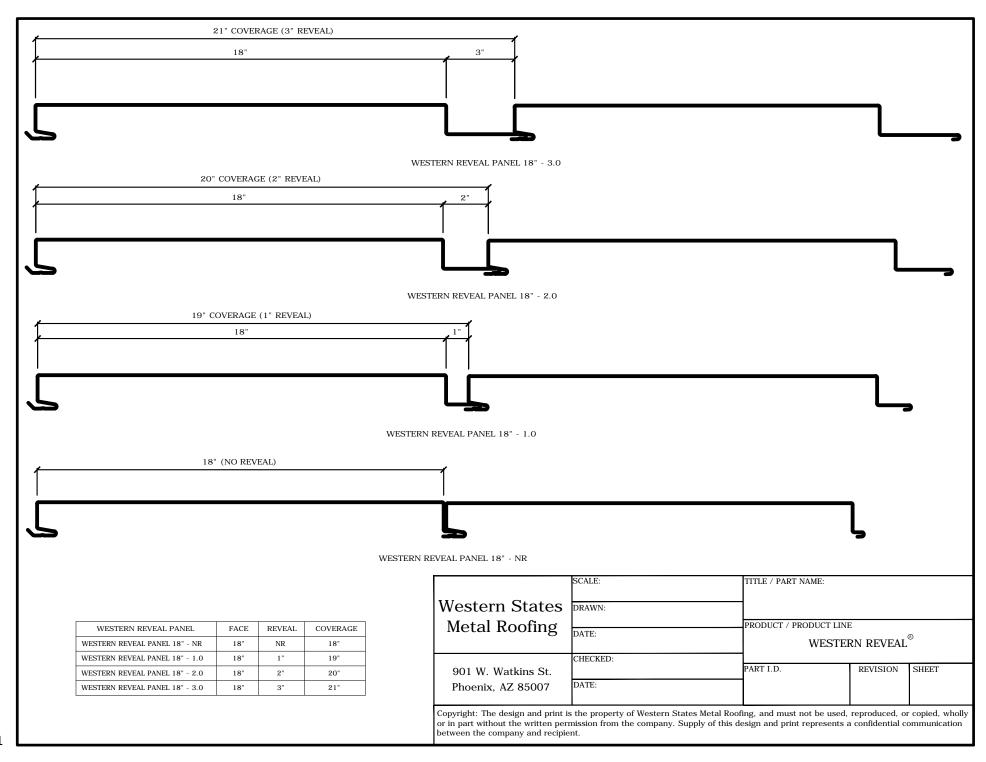
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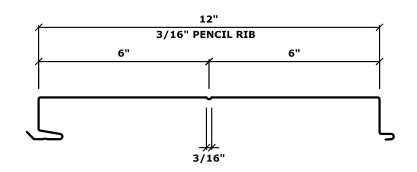


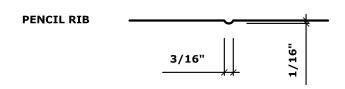
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WESTERN REVEAL PANEL 14" - 2.0	14"	2"	16"
WESTERN REVEAL PANEL 14" - 3.0	14"	3"	17"

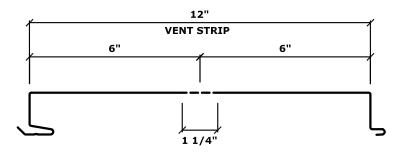
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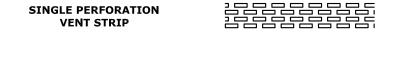


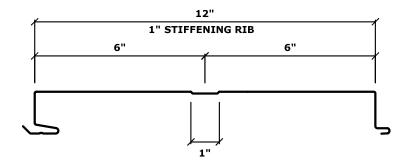


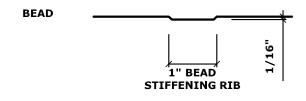




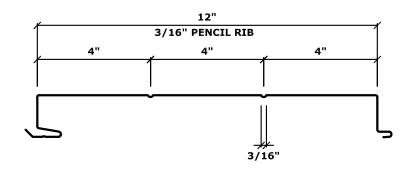


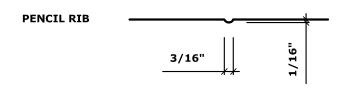


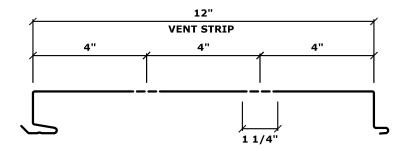




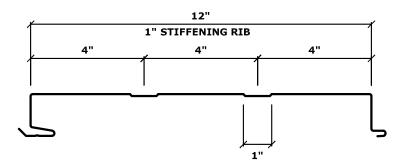
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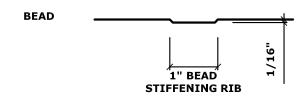




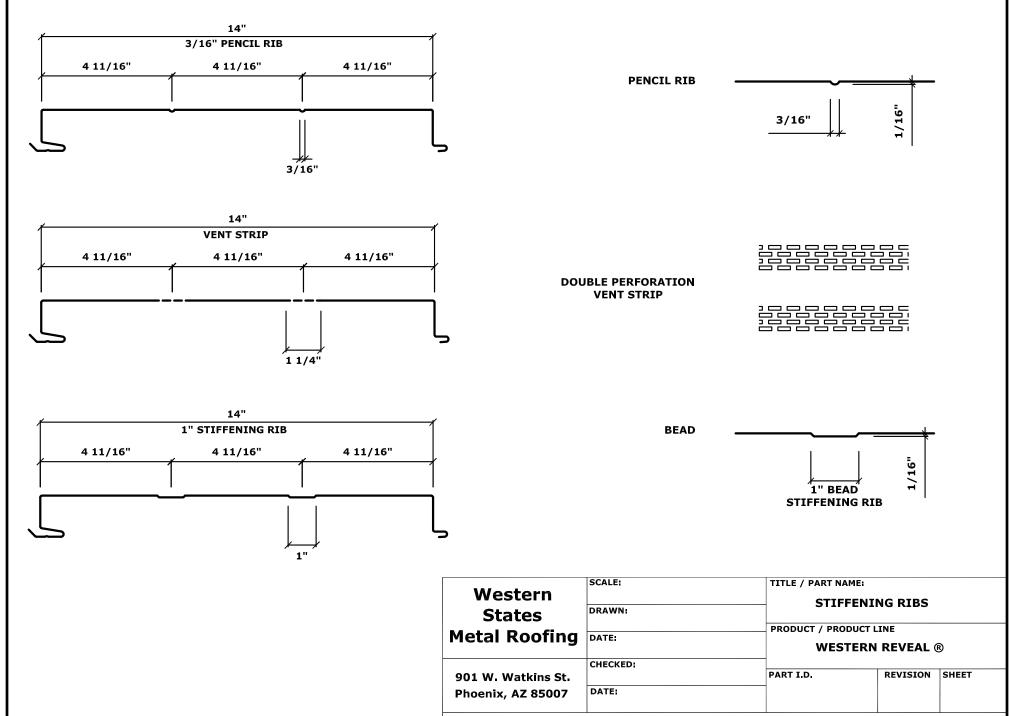


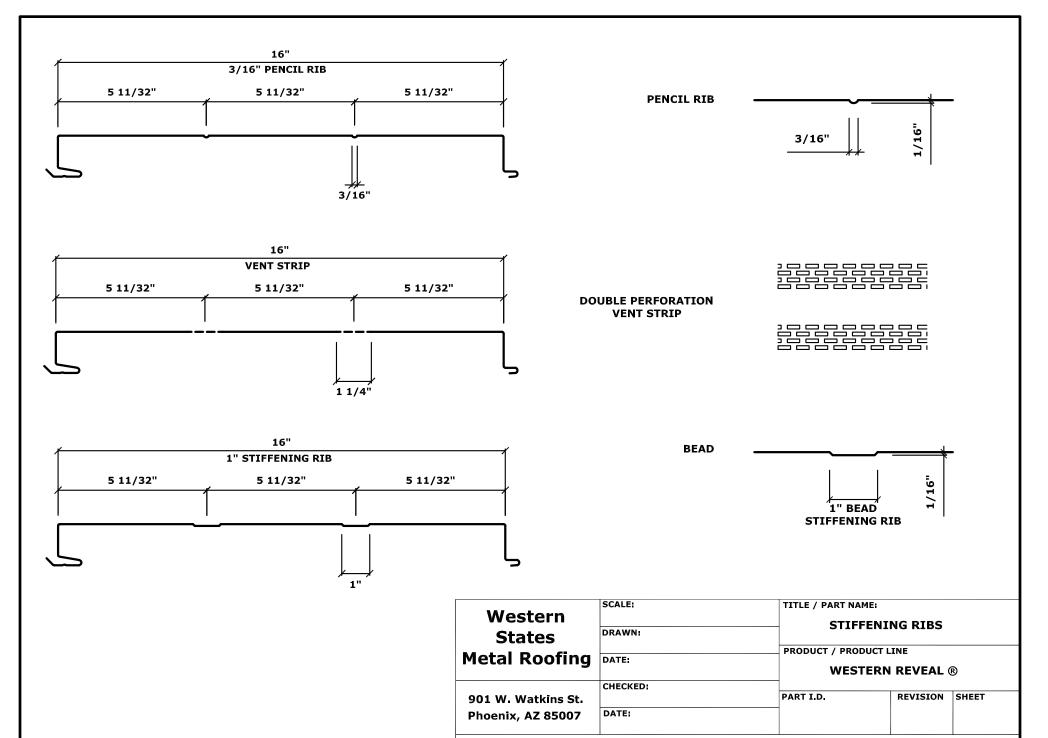


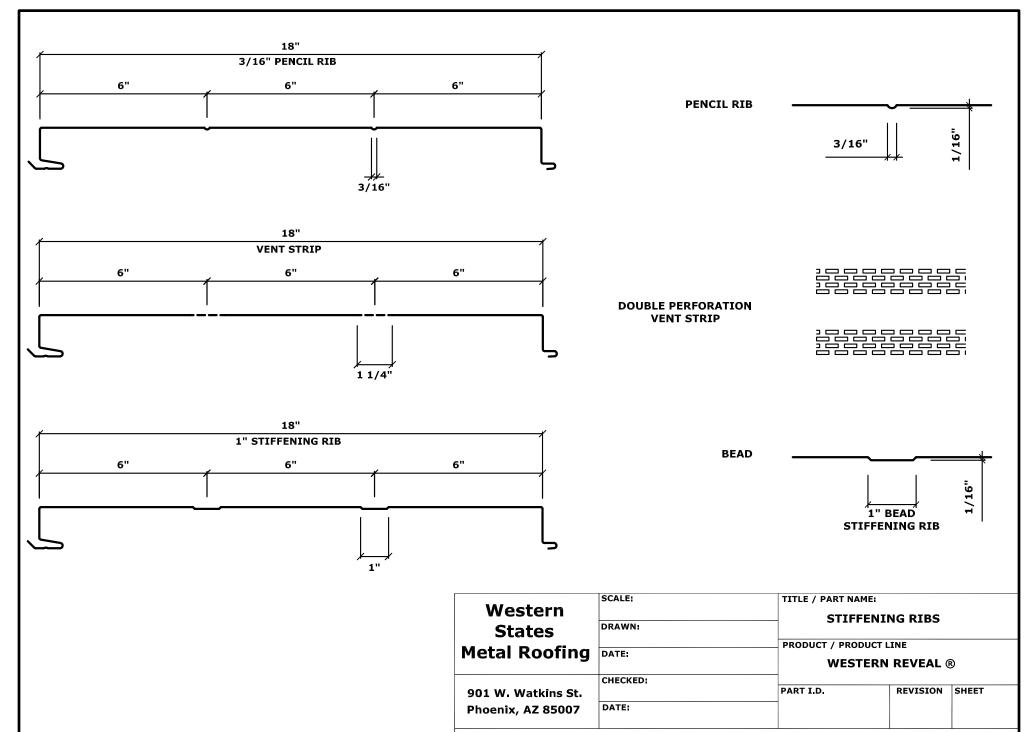


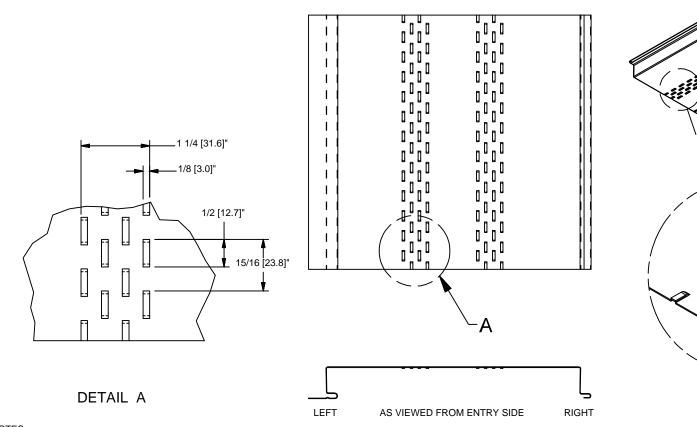


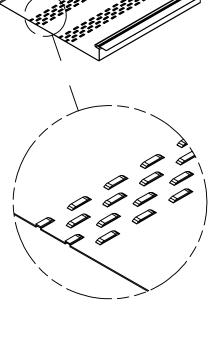
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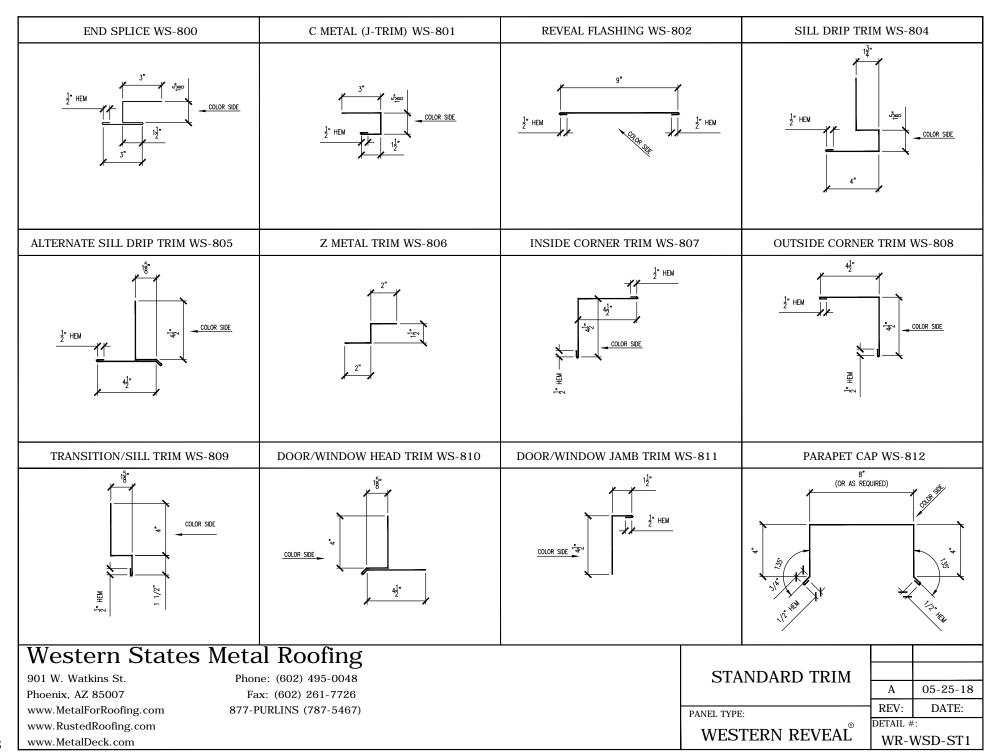


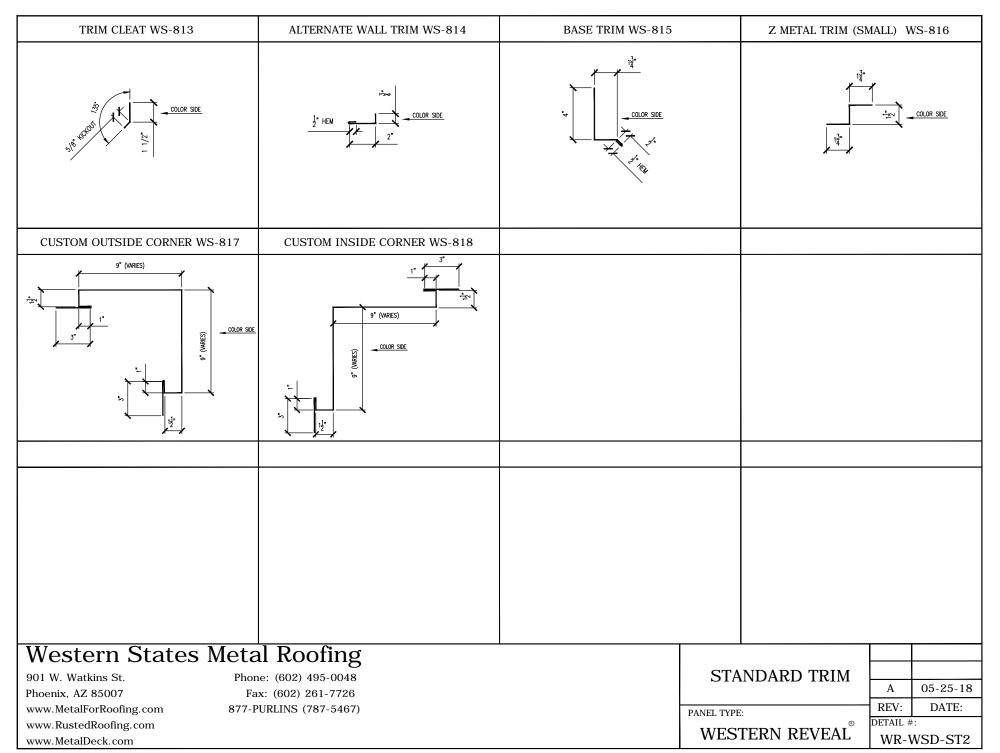
NOTES: 1. MATERIAL USAGEAPPROXIMATELY: 5" [127 mm]

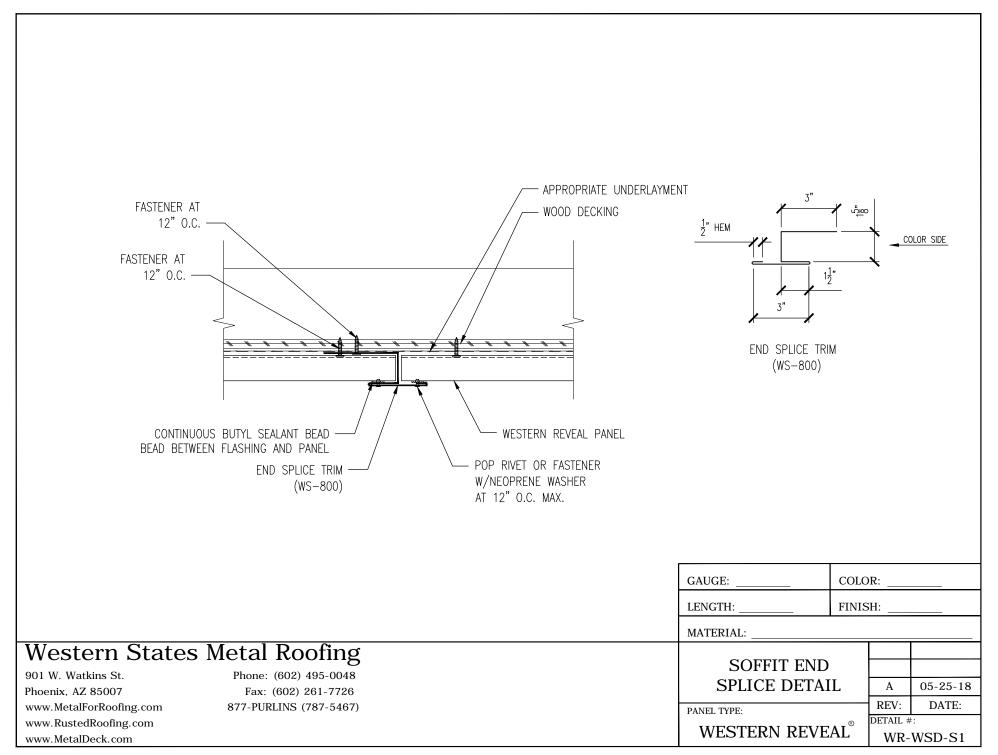
- 2. WHEN USING PERFORATOR: MAXIMUM NET FREE AREA = 3.08 SQUARE INCHES PER 12 INCHES OF PERFORATION [1987 sq. mm / 304.8 mm]
- 3. MAXIMUM OF TWO PERFORATIONS
- PER PANEL.
 4. DUAL DIMENSIONS: Inch [mm]

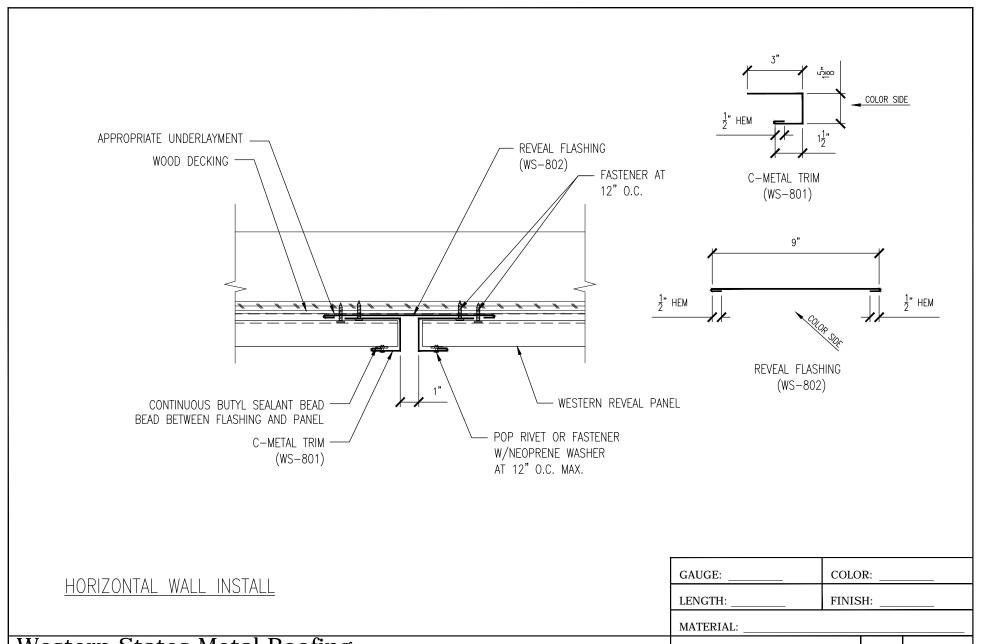
OPENING SIZE .50 [12.7] X .12 [3.0] = .06 SQ. IN. [38.7 sq. mm] OPENINGS PER 12 INCH LENGTH [304.8 mm] = 51.25NET FREE AREA / 12 INCH = .06 SQ IN X 51.25 = 3.08 SQ IN. [net free area / 304.8 mm = 38.7 sq. mm X 51.25 = 1983 sq. mm]

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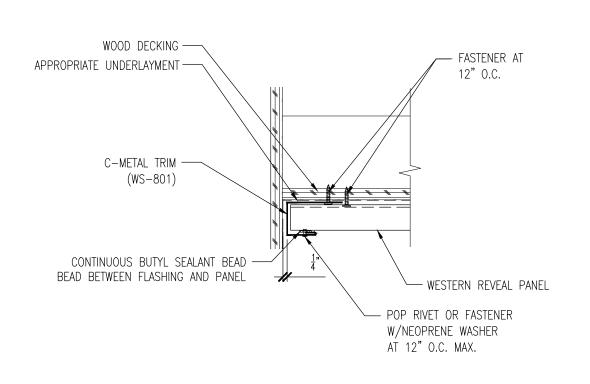
Western States Metal Roofing

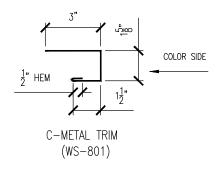
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Phone: (602) 495-0048 Fax: (602) 261-7726 877-PURLINS (787-5467)

WALL/SOFFIT END SPLICE DETAIL 05-25-18 REV: DATE: PANEL TYPE: DETAIL #: WESTERN REVEAL $^{\circ}$

WR-WSD-SW2





GAUGE:	COLOR:
LENGTH:	FINISH:

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SOFFIT END WALL DETAIL
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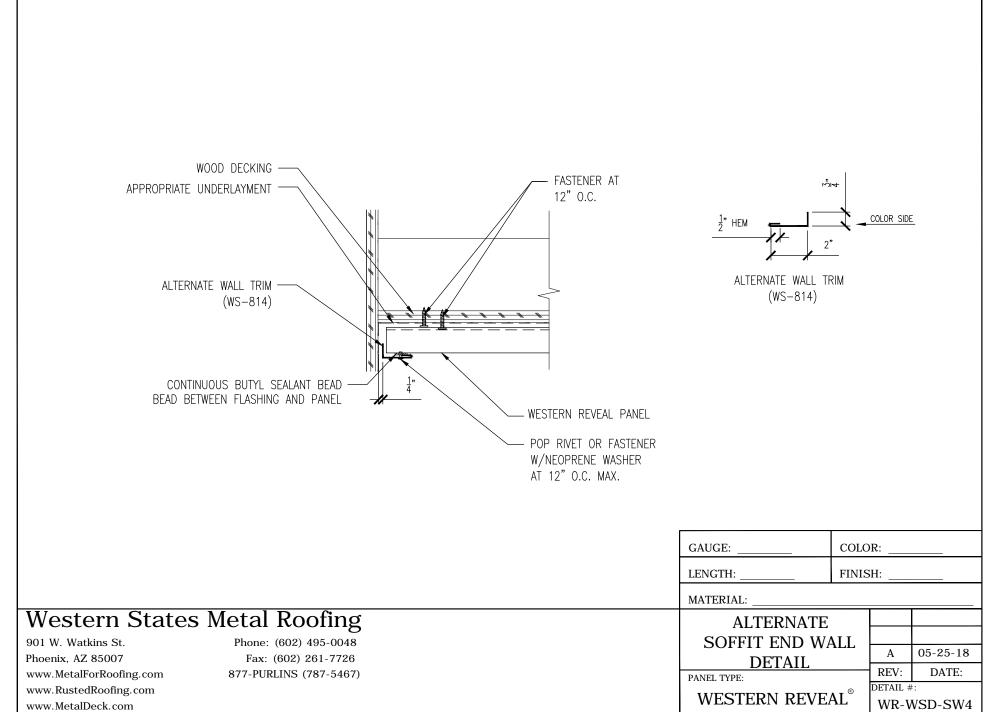
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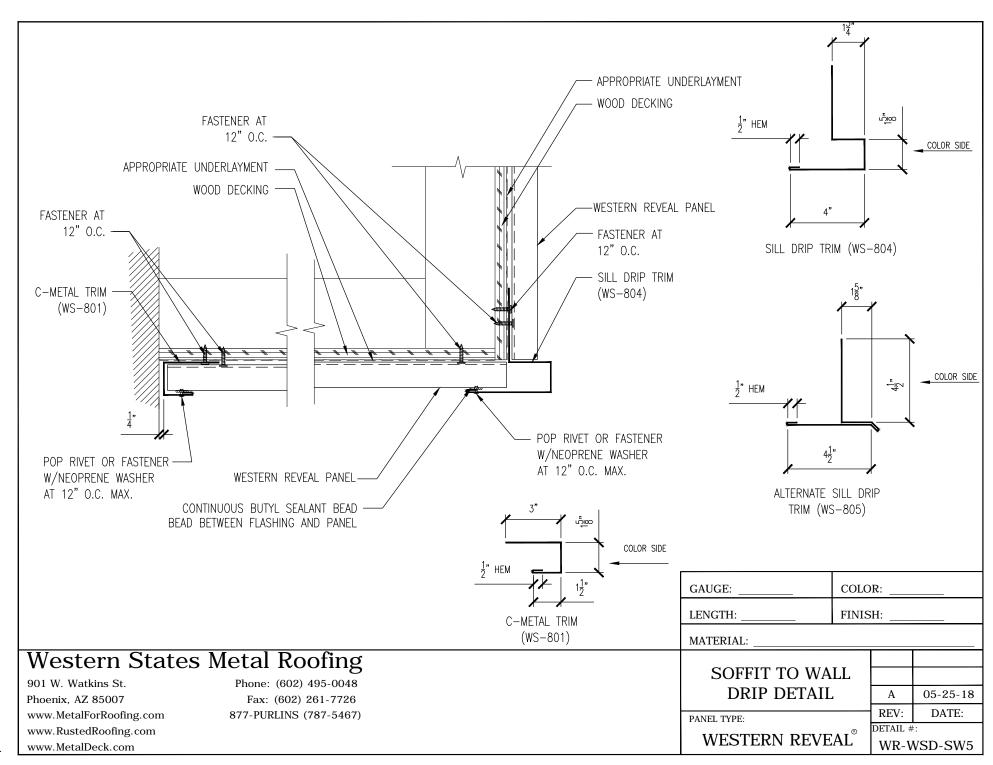
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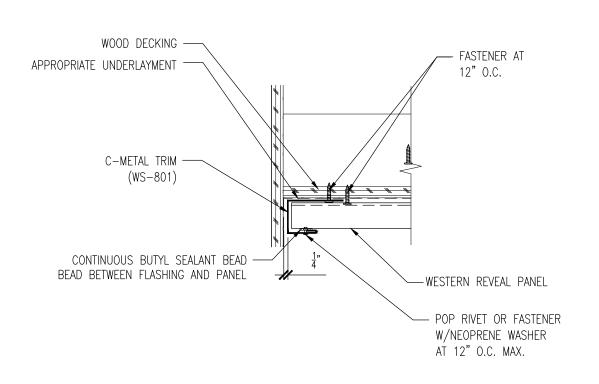
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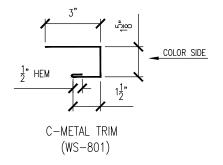
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HORIZONTAL
SIDING END WALL
DETAIL
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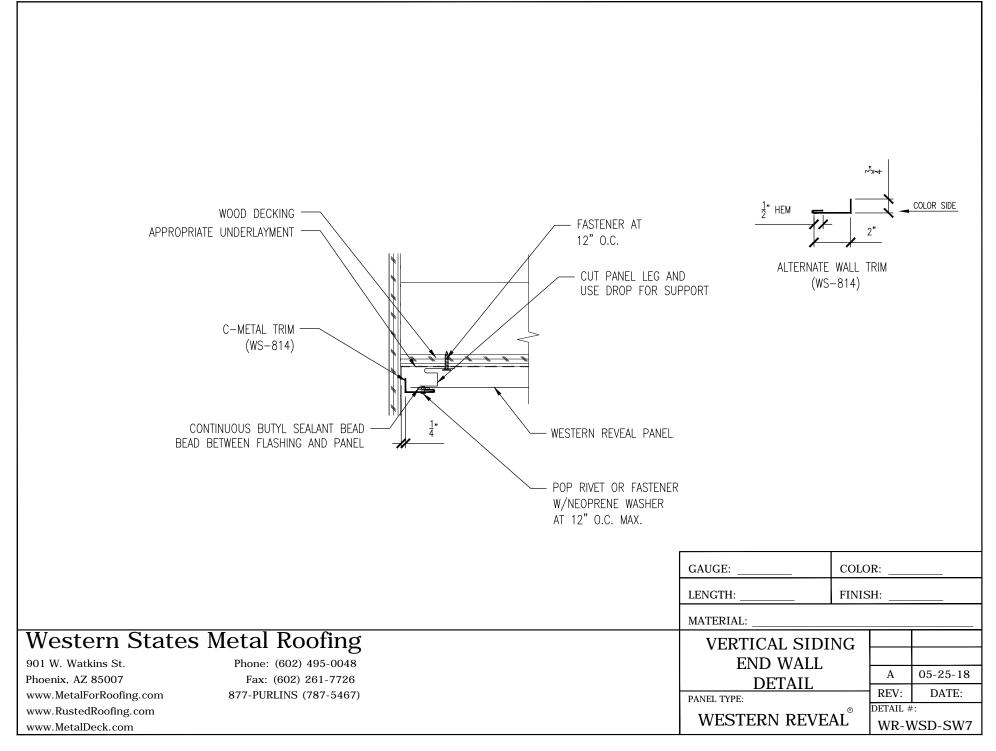
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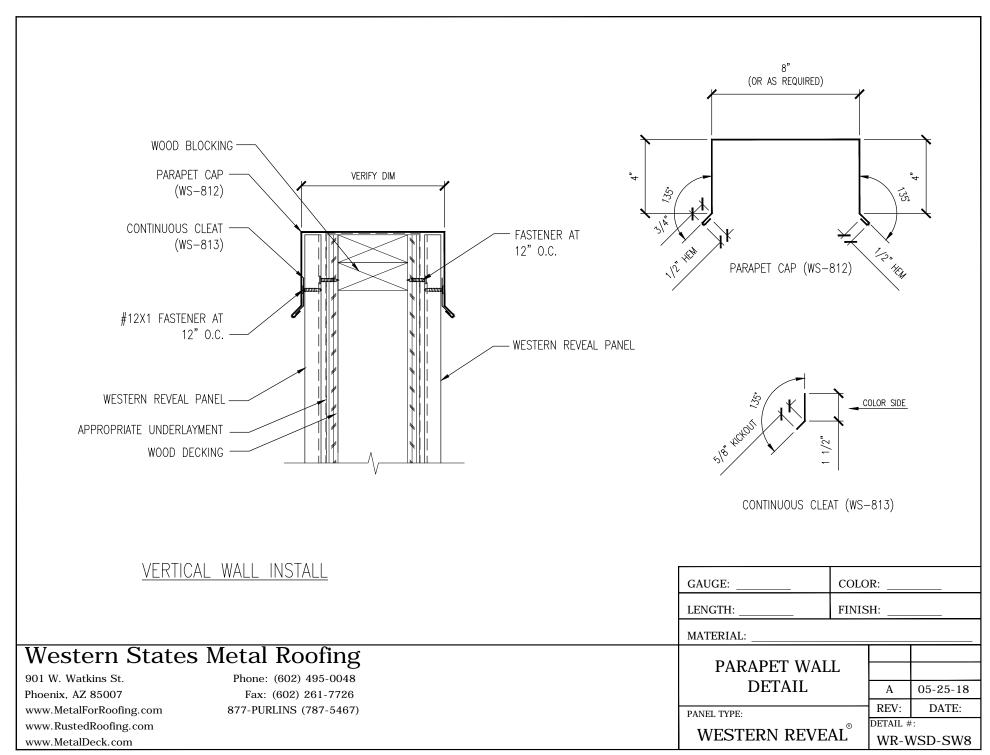
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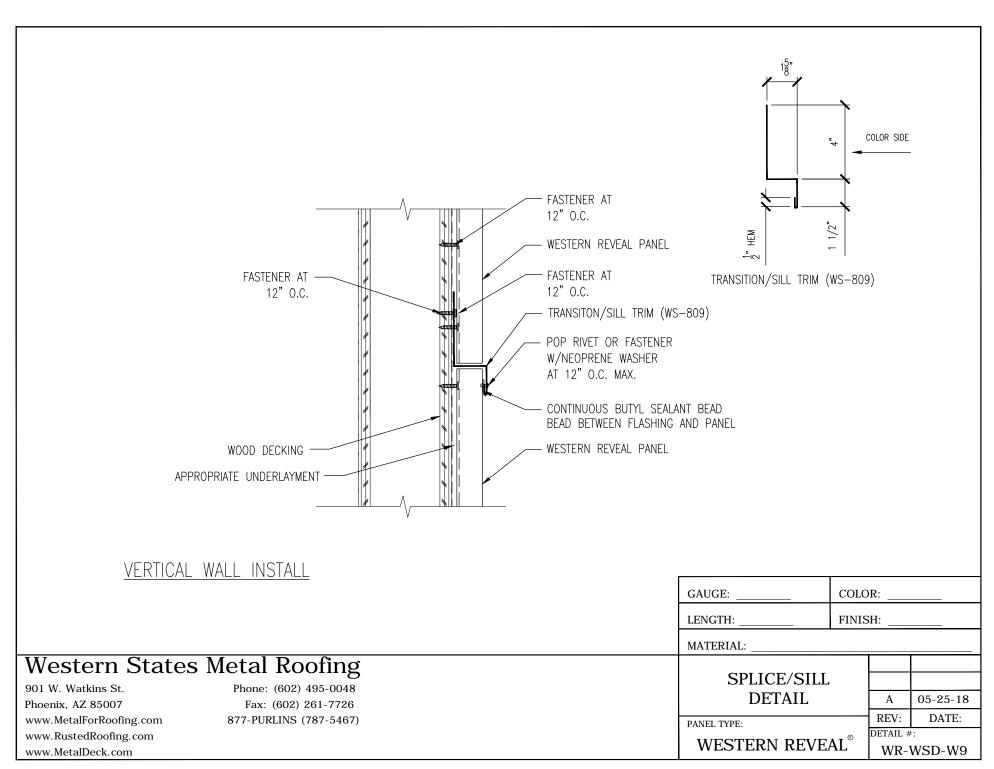
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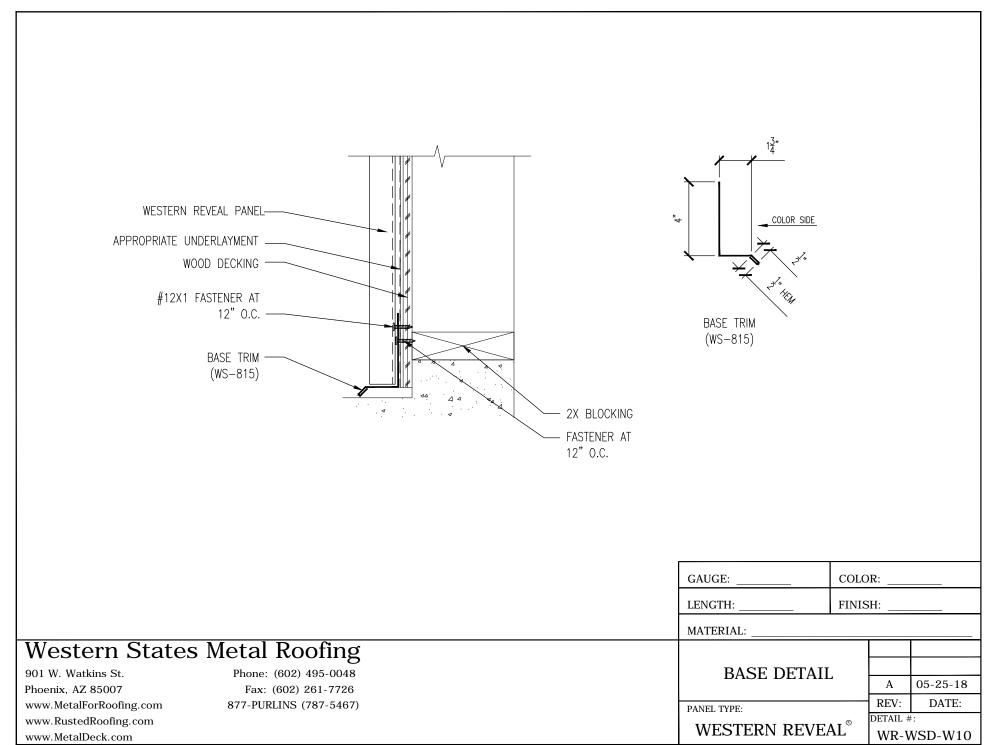
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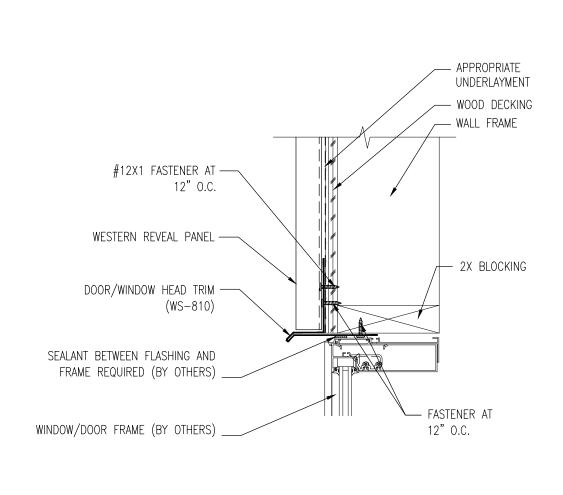
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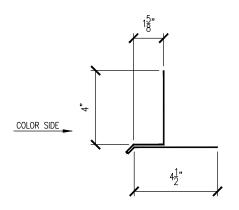












DOOR/WINDOW HEAD TRIM (WS-810)

VERTICAL WALL INSTALL

GAUGE: _____ COLOR: _____

LENGTH: ____ FINISH: _____

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DETAIL

PANEL TYPE:

WESTERN REVEAL®

DOOR/WINDOW SILL AND HEAD

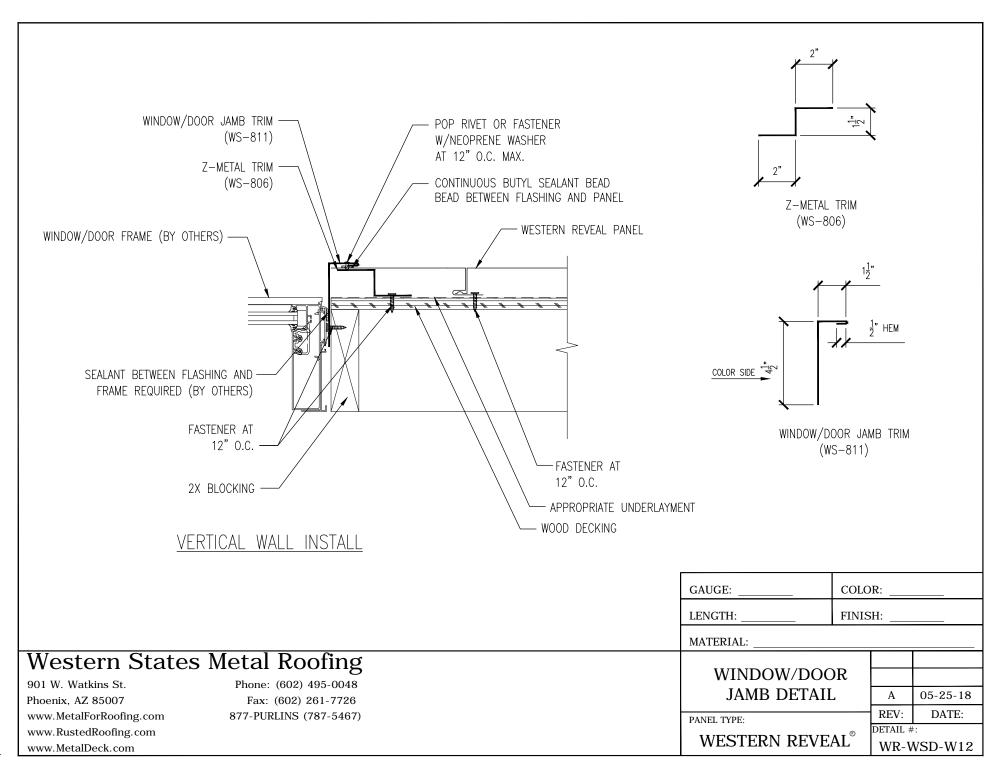
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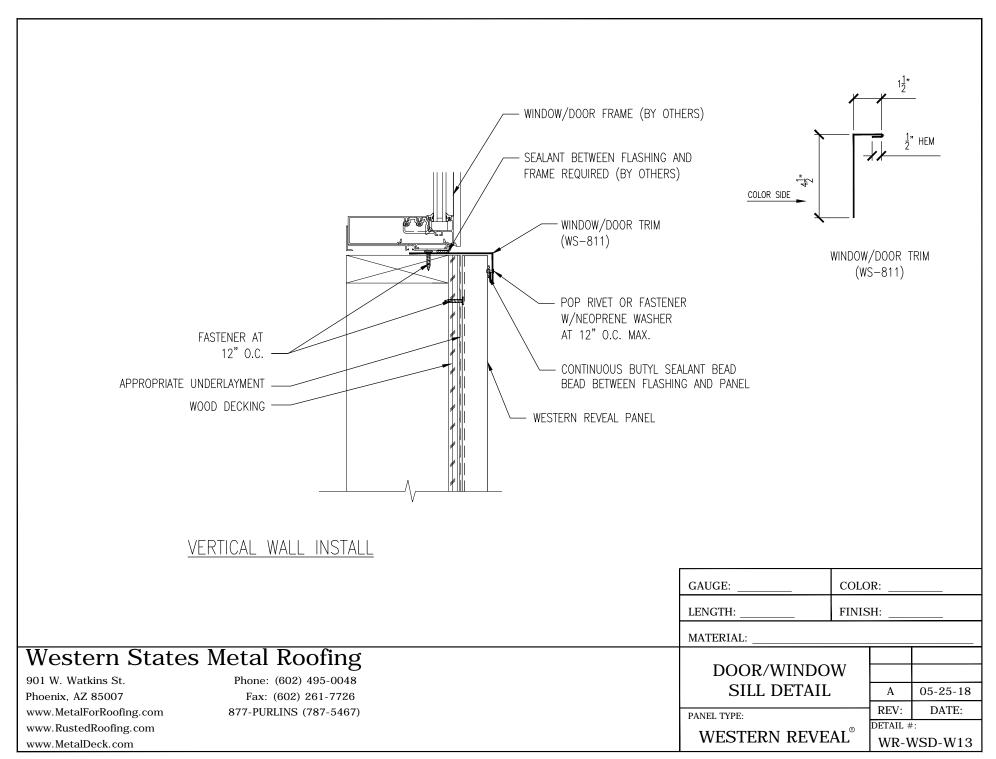
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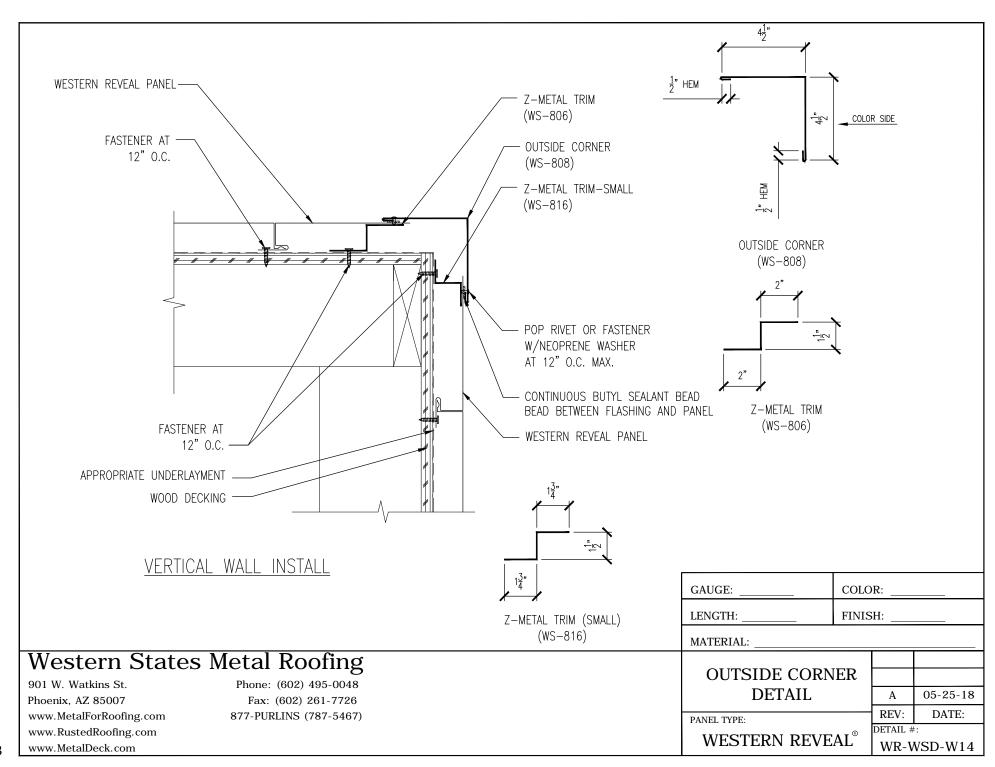
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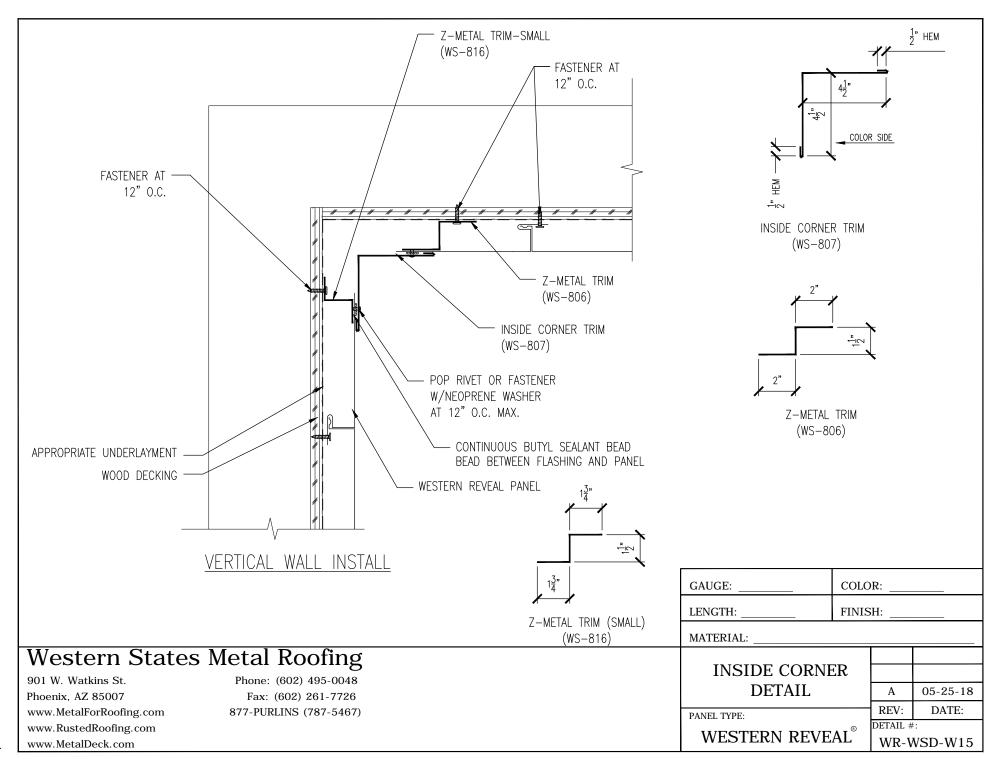
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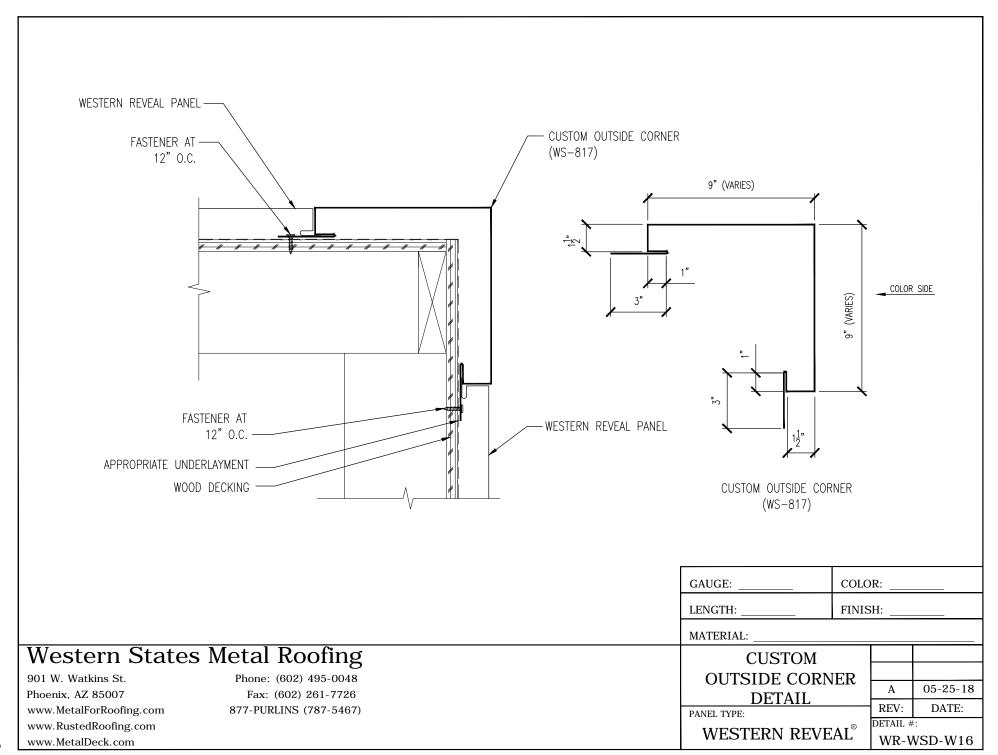
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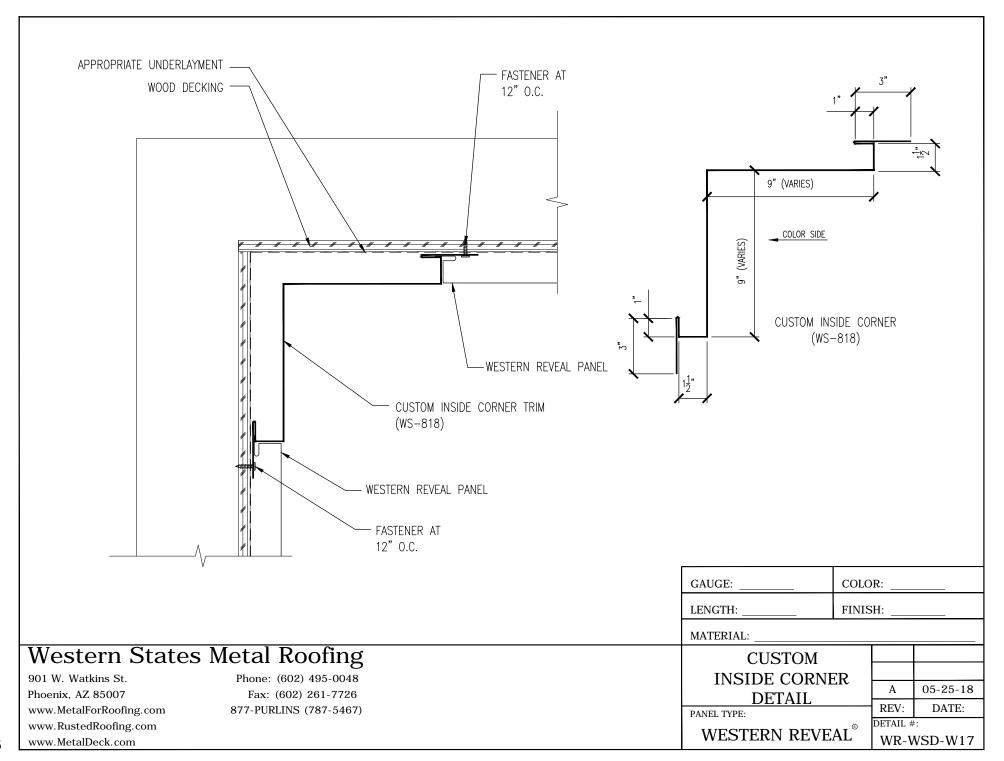


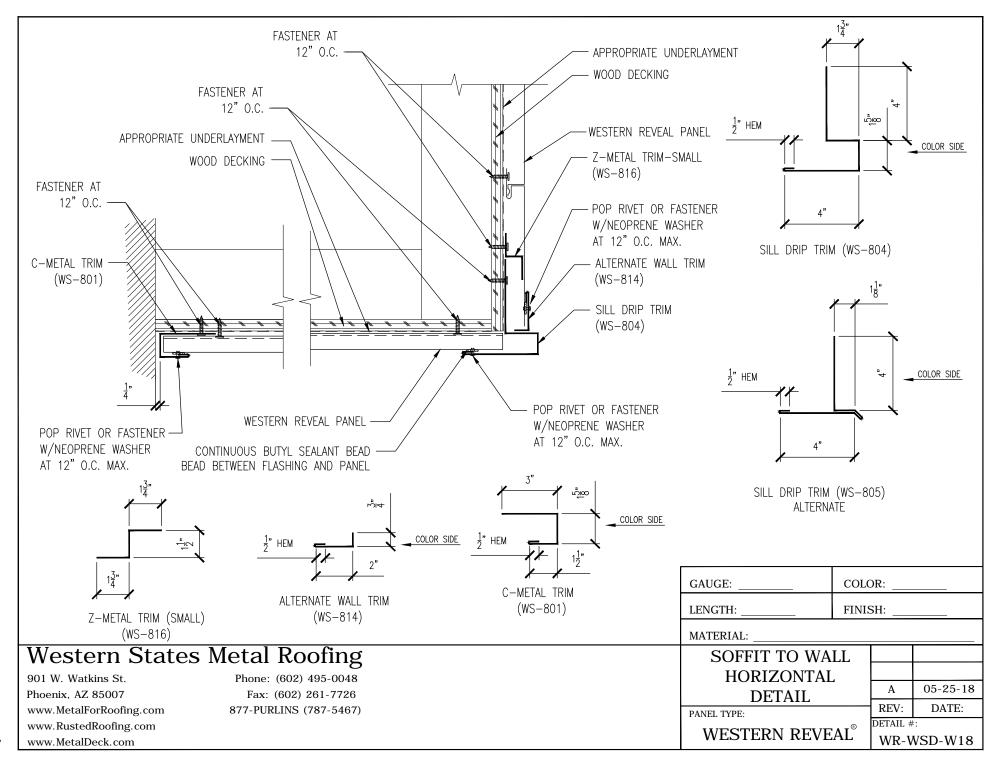


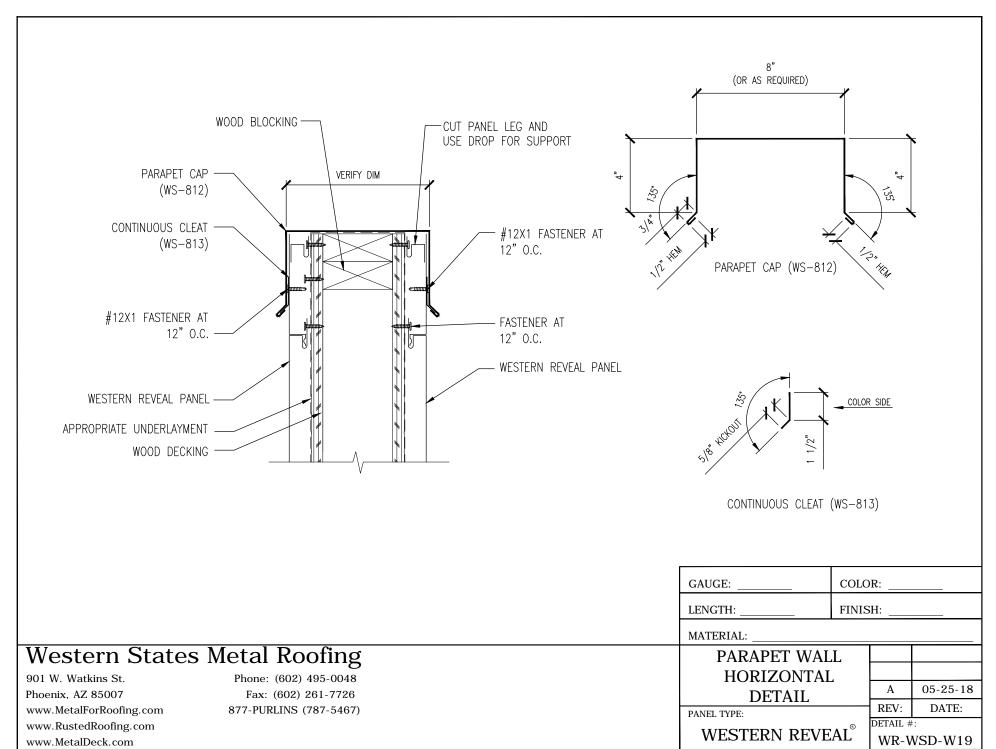


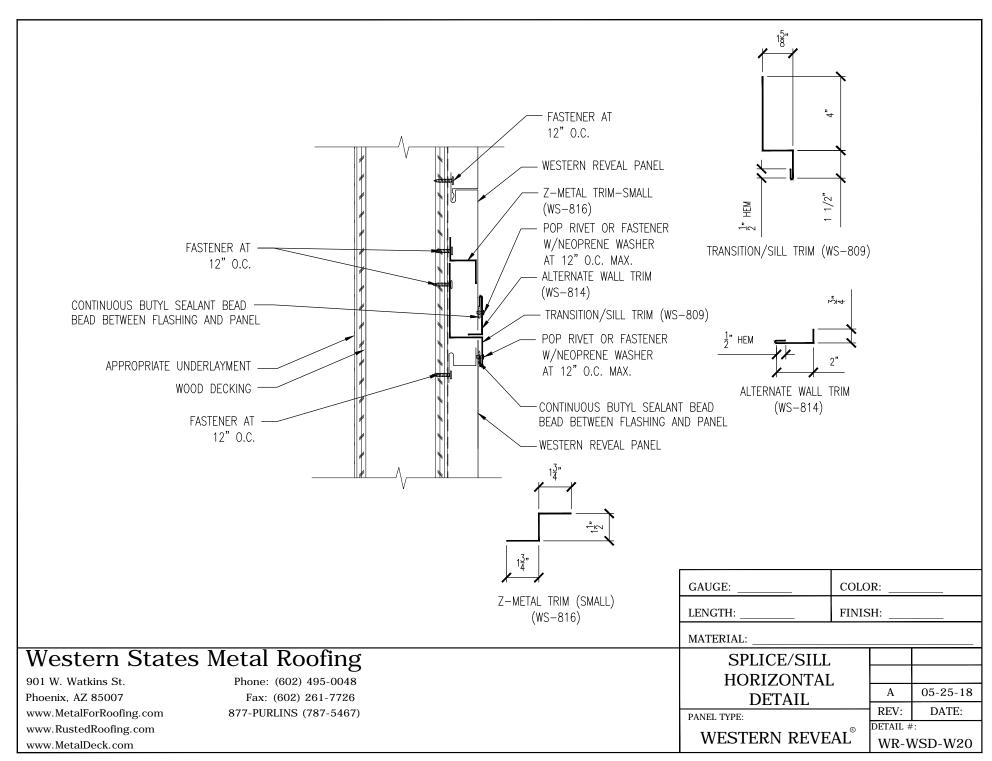


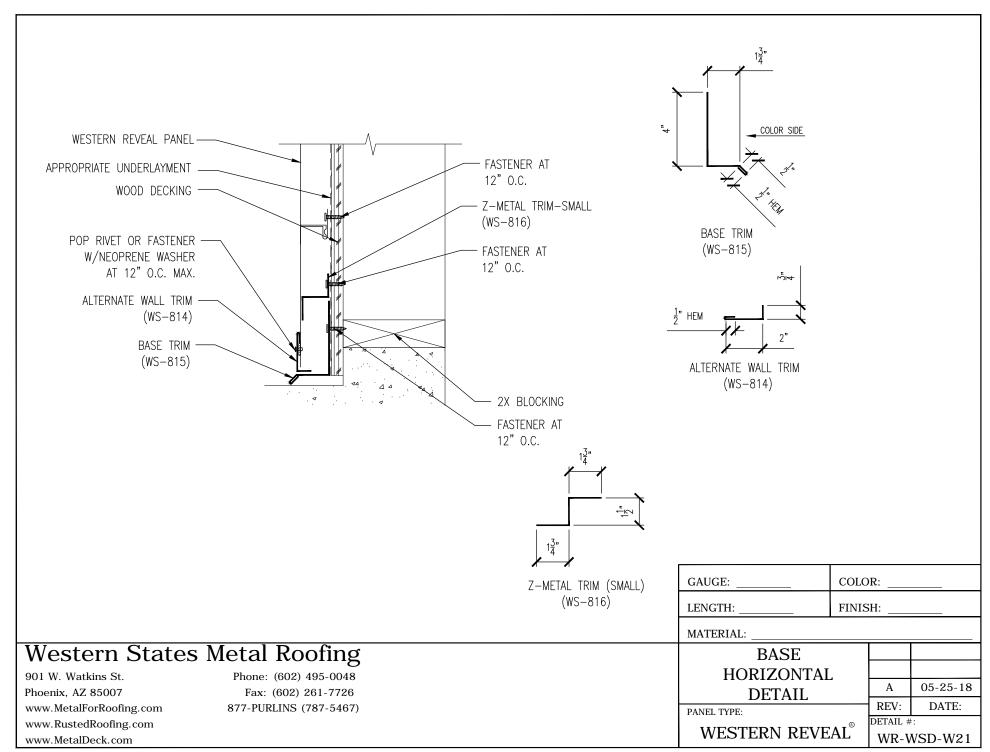


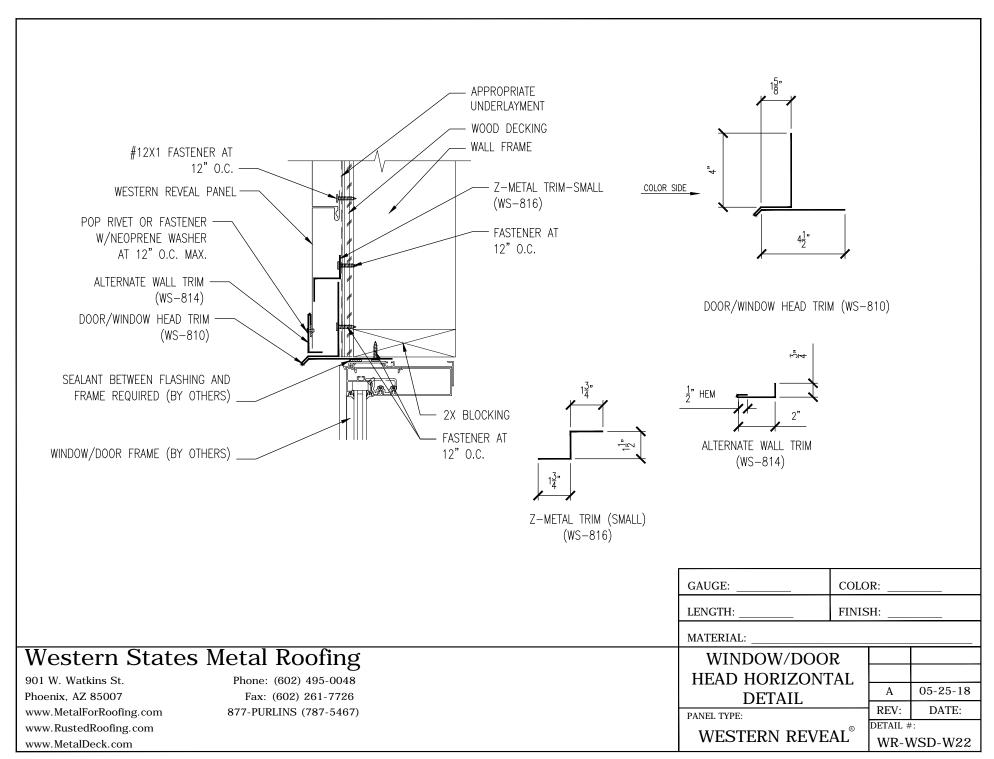


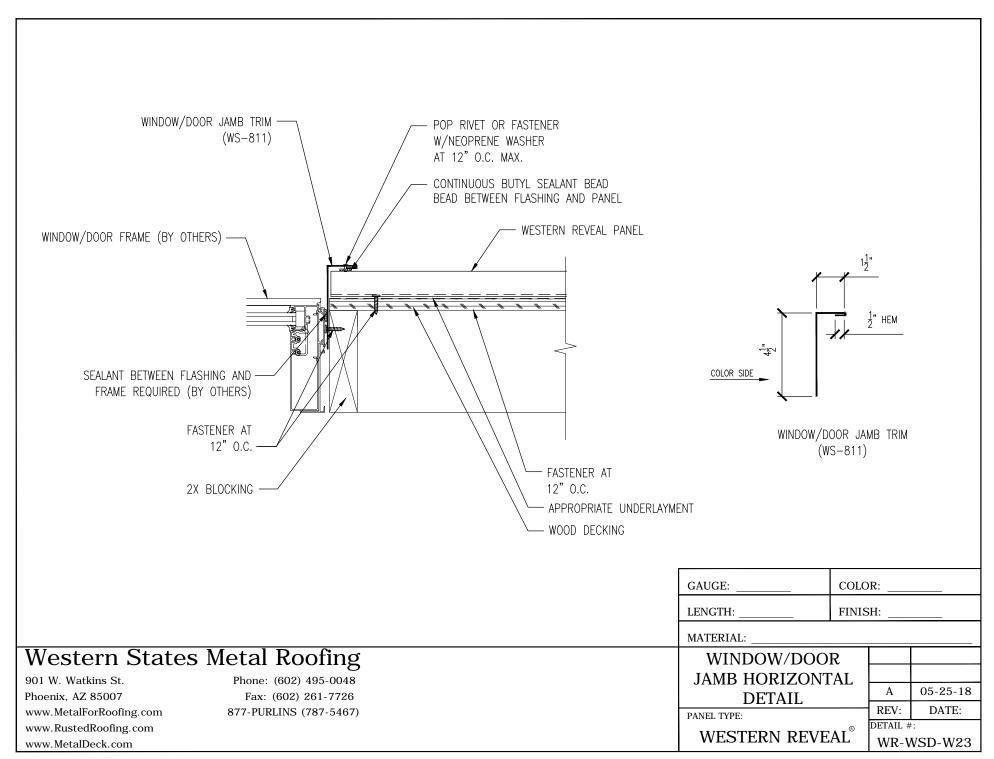


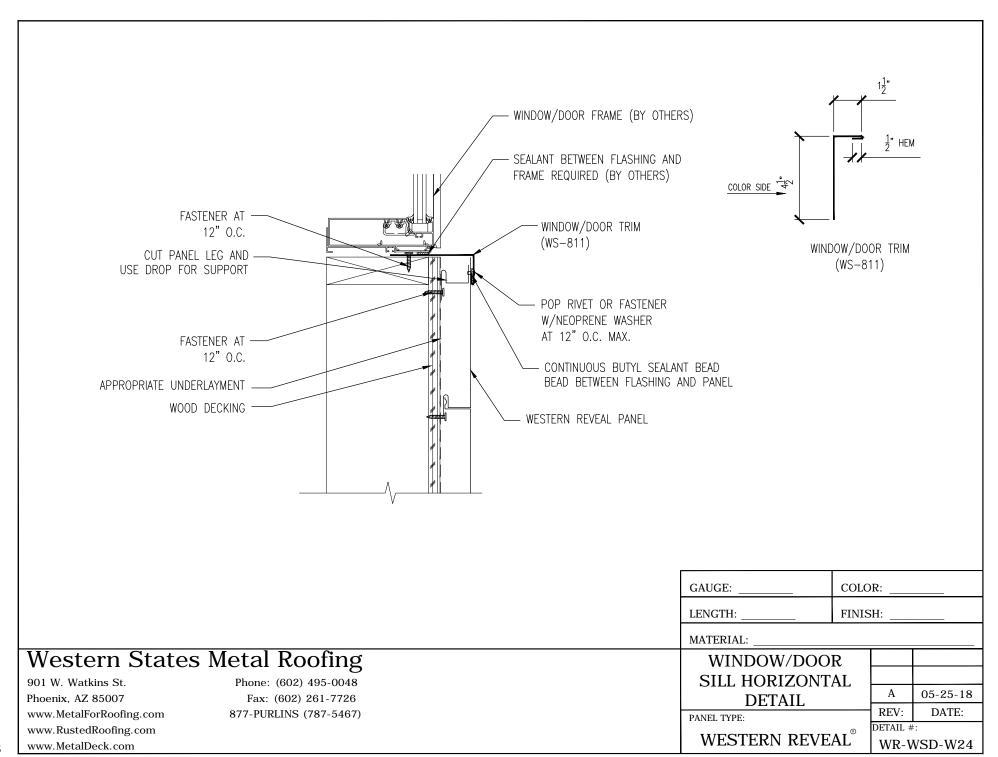


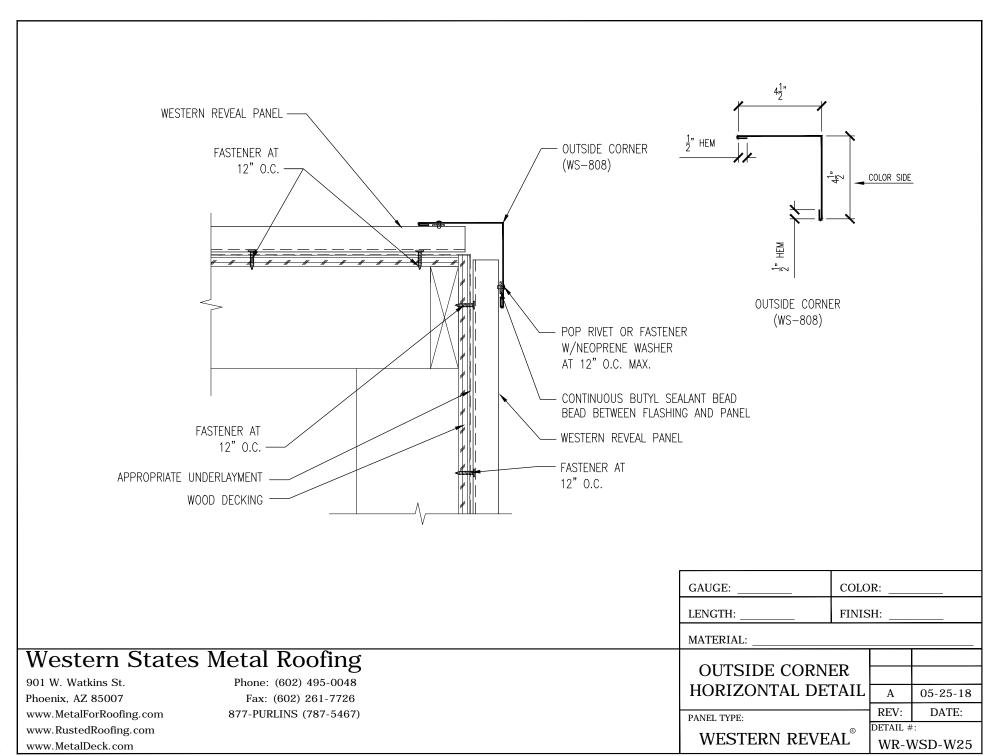


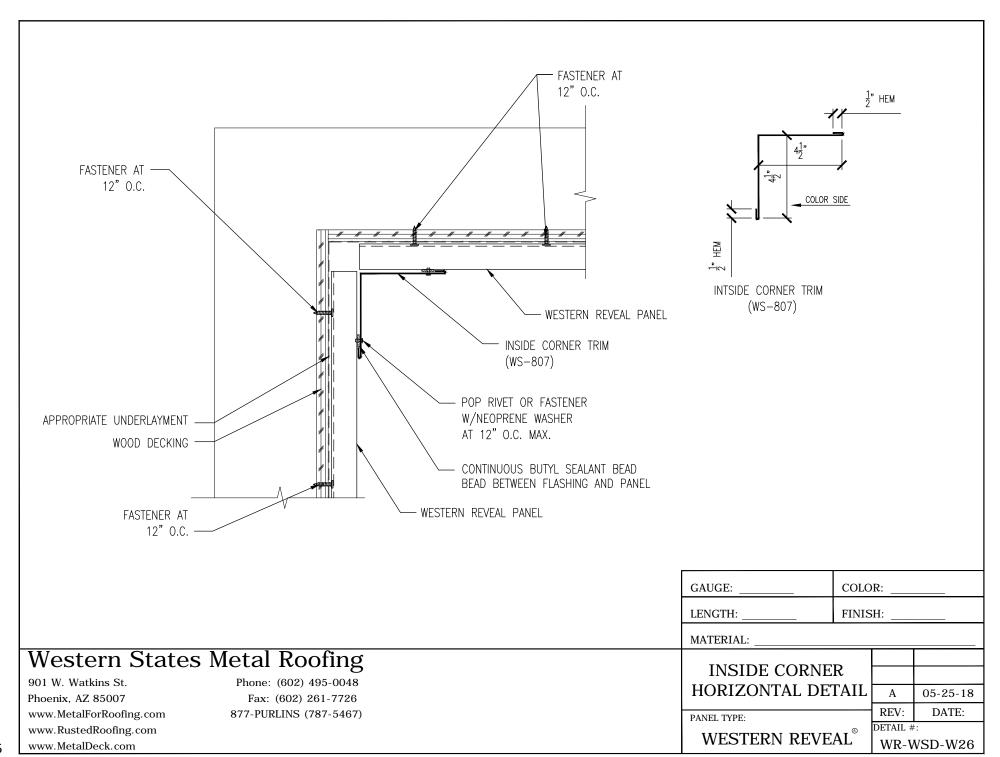












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901 W. Watkins St. Phone: (602) 495-0048 Phoenix, AZ 85007 Fax: (602) 261-7726	NOTES	A 05-25-1	8
www.MetalForRoofing.com 877-PURLINS (787-5467)	PANEL TYPE:	REV: DATE:	:
www.RustedRoofing.com www.MetalDeck.com	WESTERN REVEAL [®]	WR-WSD-MN2	27

CUSTOM TRIM GAUGE: COLOR: FINISH: BREAKS: STRETCH OUT: LENGTH: MATERIAL: Western States Metal Roofing CUSTOM TRIM NAME: 901 W. Watkins St. Phone: (602) 495-0048 05-25-18 Fax: (602) 261-7726 Phoenix, AZ 85007 REV: DATE: www.MetalForRoofing.com 877-PURLINS (787-5467) PANEL TYPE: DETAIL #: www.RustedRoofing.com WESTERN REVEAL $^{\circ}$ WR-WSD-CT28 www.MetalDeck.com

Western States "Western 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 Western 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.3

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



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