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Installation Accessories

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INTRODUCTION

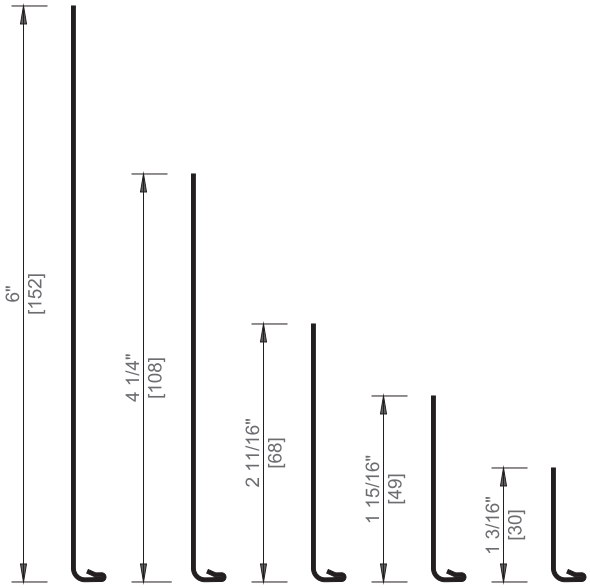
This section explores accessories, assembly systems and field measurement procedures required to meet the specific challenges of historic restoration, renovation and window replacement within existing construction.

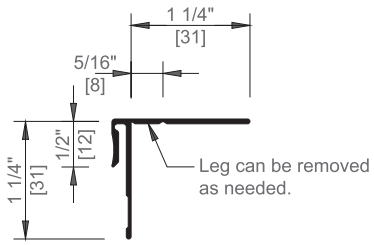
In addition to providing custom windows for historic restoration projects, Pella offers four window replacement systems.

- **Pella Precision Fit Window System** – fully assembled, factory-tested double-hung window unit that slides easily into the existing sash "pocket" created when the old sash is removed. This is done without damaging surrounding trim, wall paper, paint or plaster. Custom-built units are made to order in 1/4" increments to fit your existing window opening. See Precision Fit Windows on www.PellaADM.com for complete description and options.
- **Pella Frame Expander System** – provides an economical method for replacing old wood or metal windows without tearing out existing window frames. Pella aluminum-clad windows and doors have an accessory groove that allows for the use of the frame expander system. Made of low-maintenance aluminum cladding that perfectly matches Pella products, these frame expanders can be used to update the exterior trim or cover existing trim that is in poor condition. Windows need to be accessible from the exterior to use this type of installation.
- **Pella Standard Subframe System** – allows installation of new replacement windows from inside the building. This eliminates the need for exterior scaffolding and its expense, reduces labor costs and minimizes disturbance to existing construction. In most cases, only the sash of existing windows will need to be removed. The extruded aluminum subframe system is pre-assembled and covers the existing window frame and exterior trim, and the new window is set into the subframe.
- **Pella's T-Subframe System** – allows for the replacement of old metal windows without the need to tear out existing metal frames. The subframe consists of aluminum components that are pre-assembled and installed into openings, concealing the existing window frame, to become a "receptor" for the new window.

When historic, aesthetic or structural considerations dictate a complete tear-out, Pella can provide custom-size window units to fit into existing openings. Contact your Pella architectural consultant early in the project to ensure close coordination with the architect and contractor, accurate measurements, and timely fulfillment of window and door orders to keep projects on schedule and on budget.

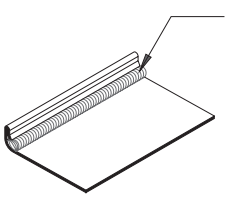
STANDARD FRAME EXPANDER SYSTEM





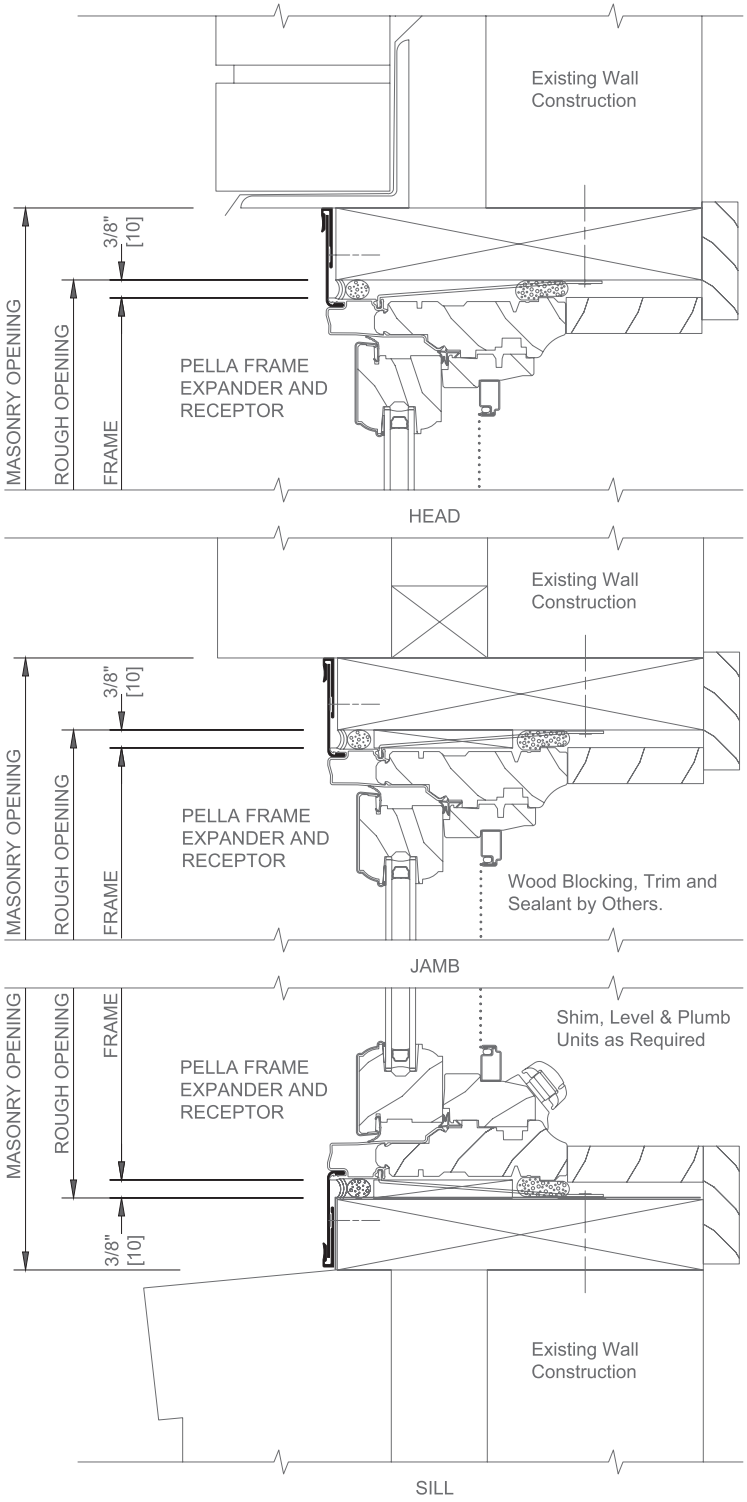
FRAME EXPANDER
RECEPTOR #72A7

TYPICAL SEALANT PLACEMENT DETAIL



APPLY CONTINUOUS SEALANT THE FULL LENGTH OF FRAME EXPANDERS AND MULLION COVERS PRIOR TO INSTALLATION.

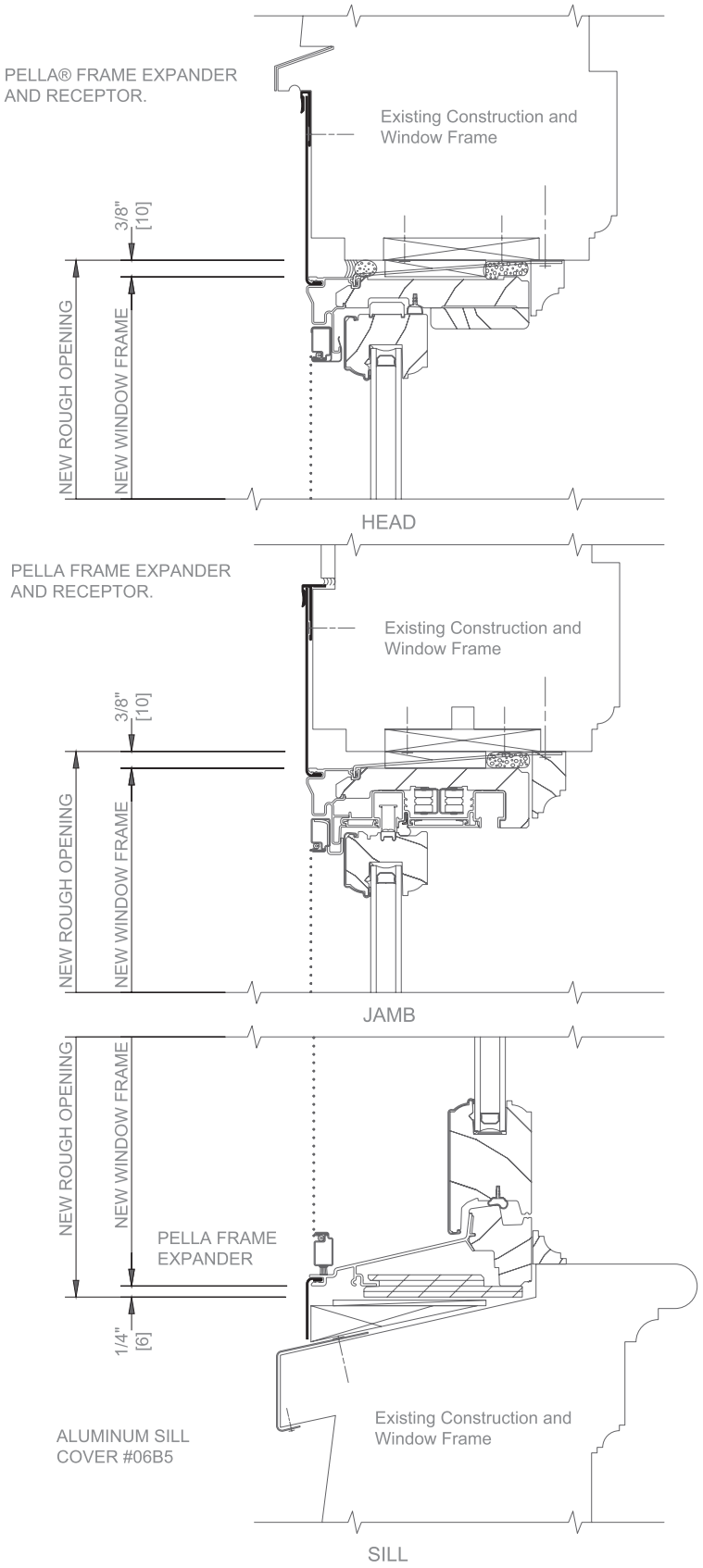
SEAL ENDS OF FRAME EXPANDERS AND MULLION COVERS TO THE OPENING.



See installation instructions for additional installation recommendations.

NOTE: Special sizes can be fabricated as required.

STANDARD FRAME EXPANDER SYSTEM



NOTE: Details shown are representative of typical residential applications. Other consideration may be required for commercial applications depending upon building height, location and application.

The Pella® Precision Fit® replacement window is another option for this condition. See the Precision Fit product sections at www.PellaADM.com for more information.

REMOVE EXISTING SASH AND PARTING STOP BLOCKING AS REQUIRED BY OTHERS.

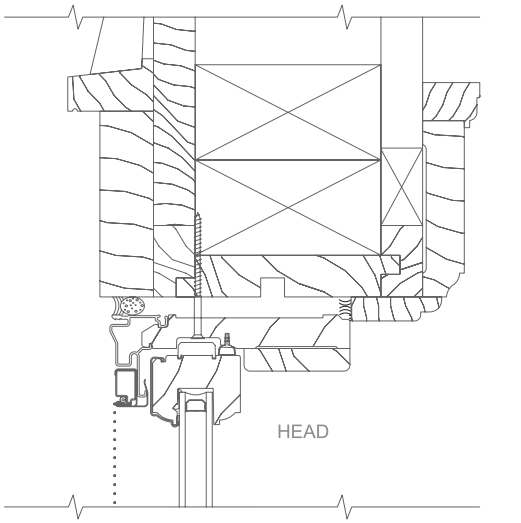
WOOD BLOCKING, TRIM, SEALANT, AND INSULATION BY OTHERS.

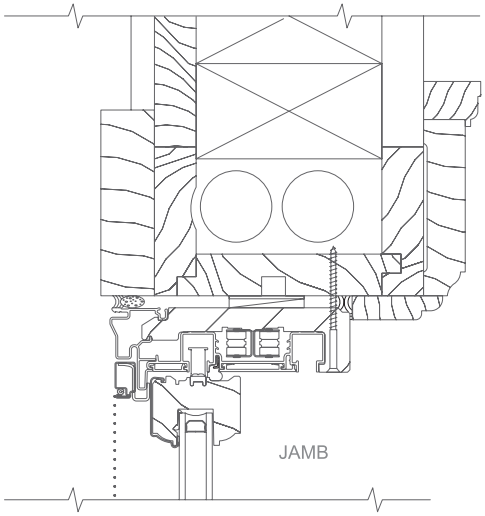
SEE INSTALLATION INSTRUCTIONS FOR ADDITIONAL INSTALLATION RECOMMENDATIONS.

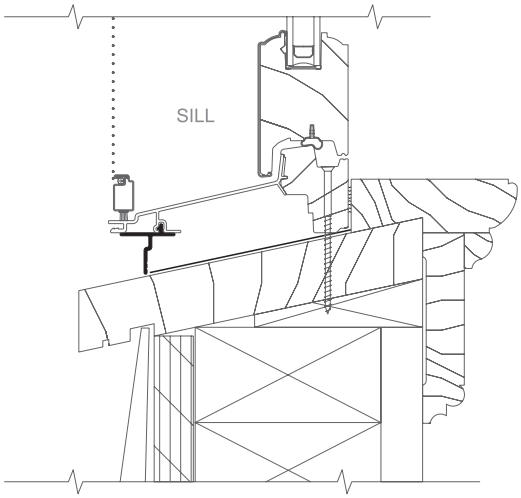
NOTE: Special sizes can be fabricated as required.

REPLACEMENT SILL ADAPTOR SYSTEM

Installed from Exterior







NOTE: Details shown are representative of typical residential applications. Other consideration may be required for commercial applications depending upon building height, location and application.

The Pella® Precision Fit® replacement window is another option for this condition. See the Precision Fit product sections at www.PellaADM.com for more information.

WALL CONSTRUCTION AND OLD DOULBE-HUNG FRAME SHOWN ARE EXISTING; OLD DOUBLE-HUNG SASH AND PARTING STOP HAVE BEEN REMOVED.

REFER TO THE APPROPRIATE PELLA INSTALLATION INSTRUCTION FOR COMPLETE STEP BY STEP INSTRUCTION.

TRIM EXTERIOR BLIND STOP FLUSH WITH OLD FRAME.

SHIM AND PLUMB UNITS AS REQUIRED.

SEAL UNIT TO INTERIOR STOP AND SILL.

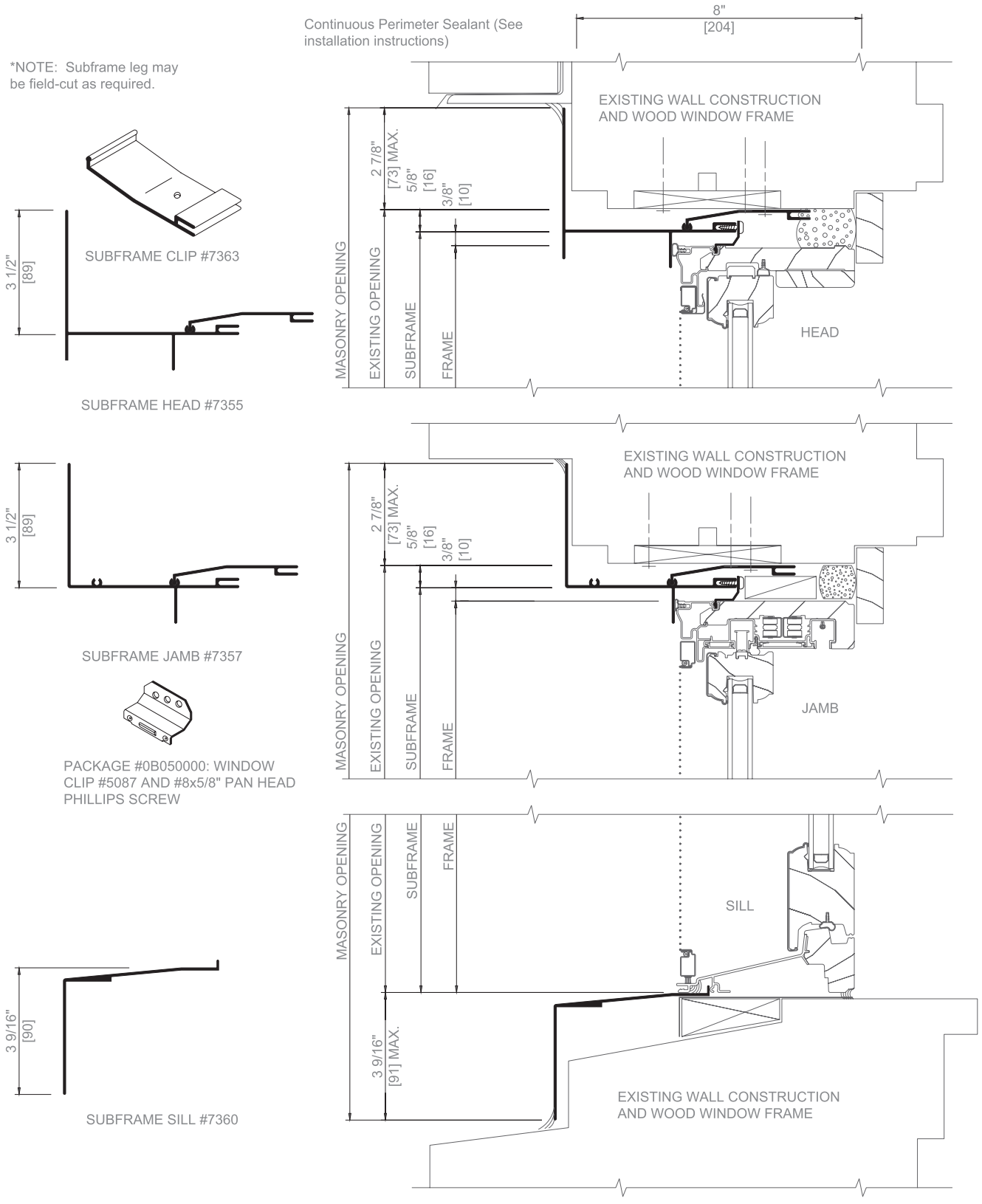
INSTALL REPLACEMENT SILL ADAPTOR (Part # 70DK). TRIM AS NEEDED.

DO NOT SEAL TO SILL.

WOOD BLOCKING, TRIM, SEALANT BY OTHERS

STANDARD SUBFRAME SYSTEM

NOTE: Maximum length is 12'. See mullion detail on Standard Subframe Accessories page for openings which exceed this limit. Consult manufacturer for multiple unit conditions.



Also refer to the Subframe System Specifications on page W-RR-7.

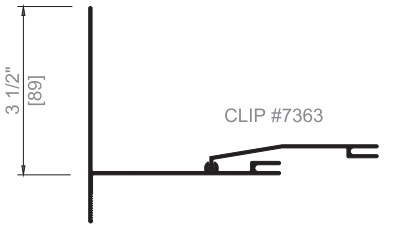
SUBFRAME SYSTEM SPECIFICATIONS

The window replacement installation method shall be the Pella Subframe System which permits installation of new windows from inside the building. Only the sash of the existing window shall be removed in preparing the opening for the subframe system, thus minimizing the disturbance to existing construction.

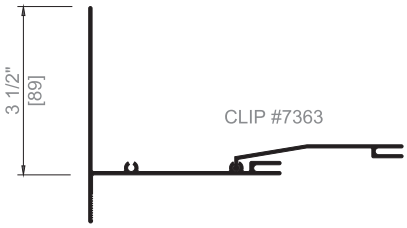
-
- • The subframe shall consist of aluminum components which are pre-assembled and installed into openings, concealing the existing window frame, to become a “receptor” for the new window.
- • The aluminum components shall be solid Type 6063-T5 or T6 extruded aluminum with a typical metal thickness of 0.065" (1.7 mm).
- • Exterior aluminum components shall be finished with Pella EnduraClad® multi-stage finish system. Color shall be as specified: [White] [Tan] [Brown] are standard colors.
- • Feature colors are available as well as custom colors.
- • EnduraClad Plus® 70% fluoropolymer-based multi-stage finish system is also available.

T-SUBFRAME SYSTEM

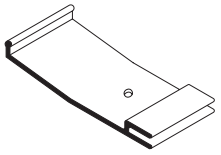
NOTE: Maximum length is 12'. See mullion detail on Standard Subframe Accessories page for openings which exceed this limit. Consult manufacturer for multiple unit conditions.



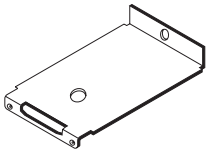
T-SUBFRAME HEAD
#72F6



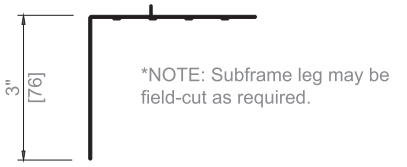
T-SUBFRAME JAMB
#73H9



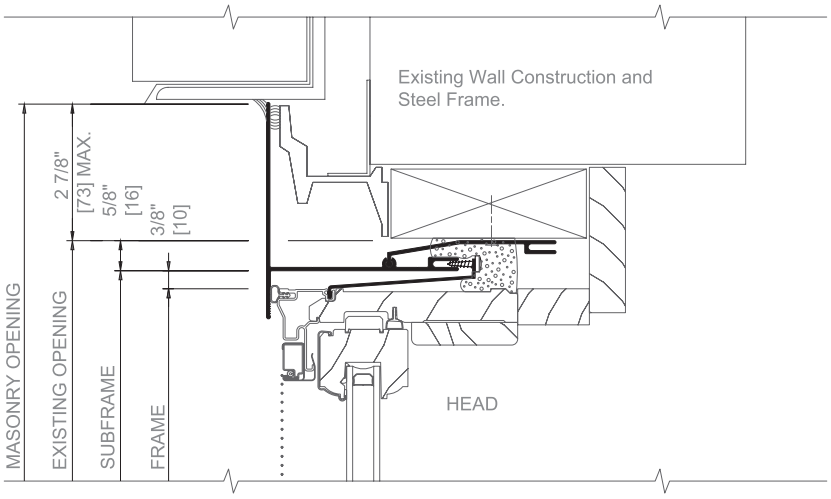
SUBFRAME CLIP
#7363

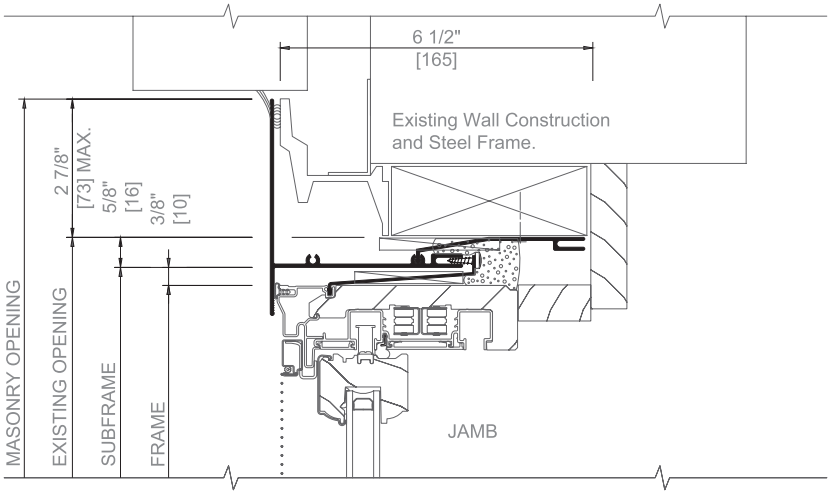


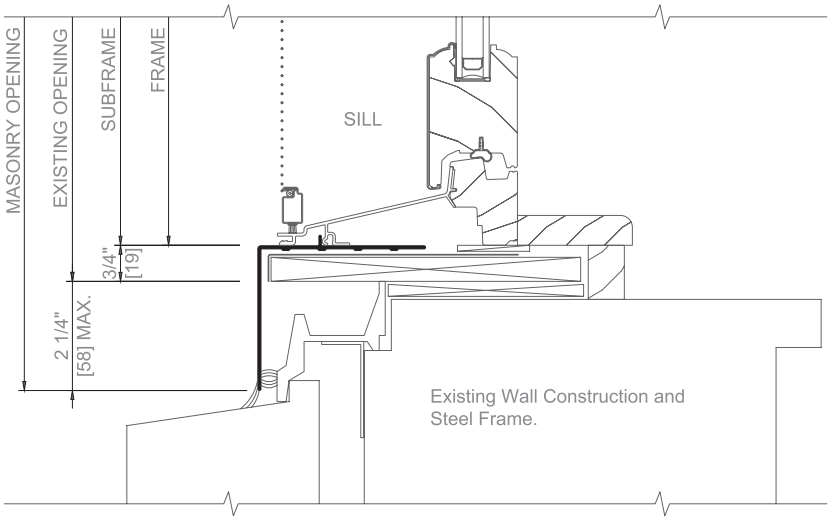
PACKAGE #0DB00000:
WINDOW CLIP #5027 AND
#8x5/8" PAN HEAD PHILLIPS SCREW



T-SUBFRAME SILL
#73H8





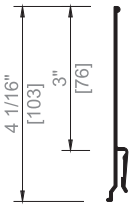


NOTE: Where aluminum and steel come into contact, apply protective coating to steel to separate it from aluminum (materials are galvanically incompatible).

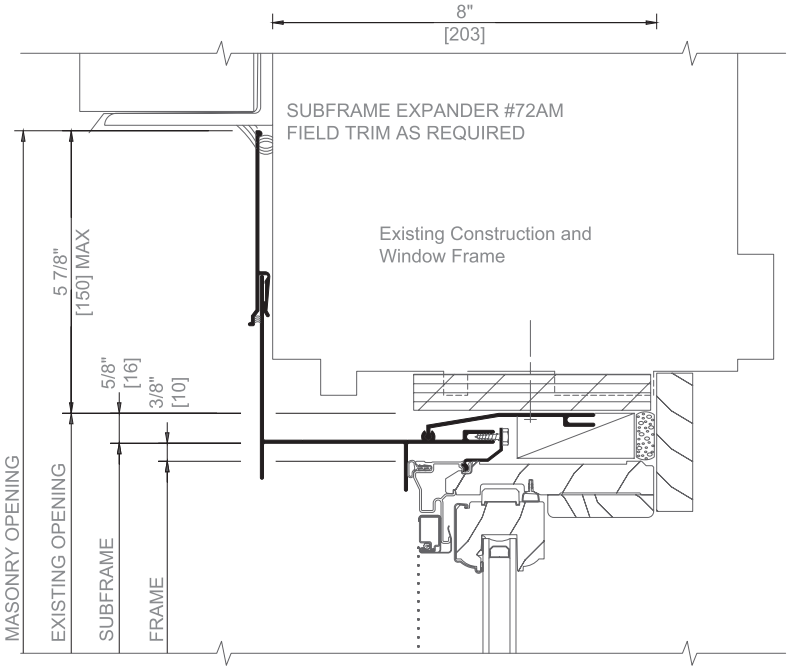
Also refer to the Subframe System Specifications on page W-RR-7.

STANDARD SUBFRAME ACCESSORIES

SUBFRAME EXPANDER #72AM

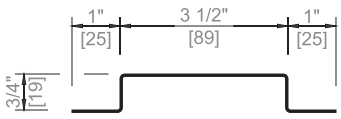


The PELLA® subframe expander may be used at either head or jamb to extend the subframe flange to reach the existing construction. Typically used in curved top openings.



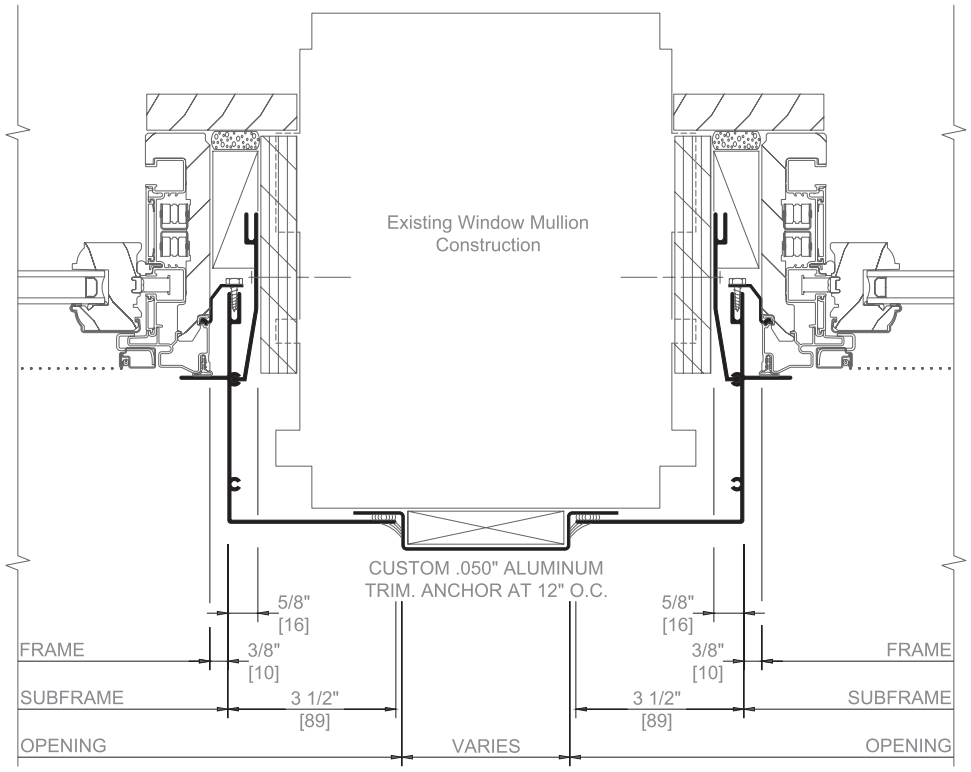
HEAD

CUSTOM 0.05"
ALUMINUM TRIM #M102



Custom 0.05" aluminum parts may be manufactured to enhance transitions between Subframe components. Typically used at mullions.

*3-1/2" min. for 12' 0" lengths
2" min. for 8' 0" lengths

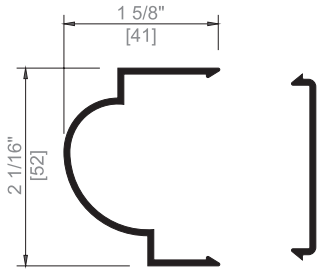


MULLION

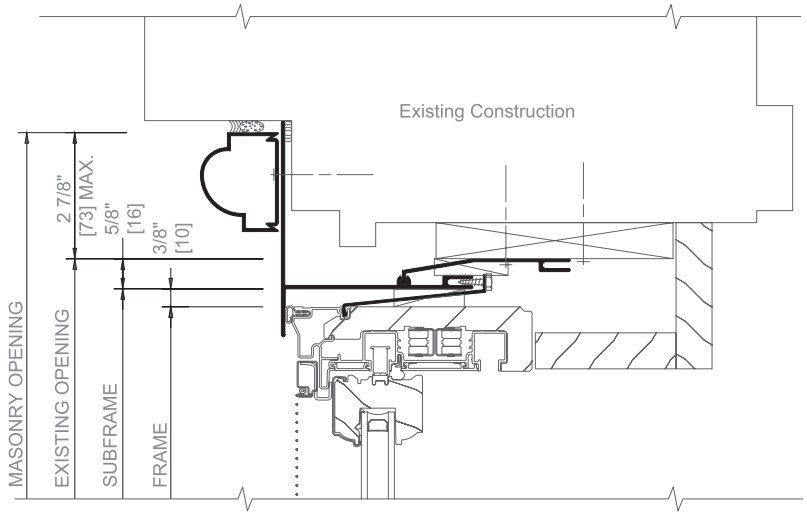
HISTORICAL ACCESSORIES

Extruded aluminum brickmoulds may be used at head and jamb to re-create existing brickmould profiles. The two shapes shown are standard. Custom shapes may be designed to meet specific job specifications. Use brickmould accessory with either a Pella Subframe or Frame Expander System.

BRICKMOULD #72AN
WITH CLIP #72AQ

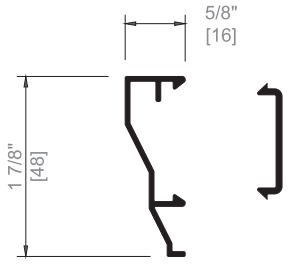


BRICKMOULD AND ATTACHING
CLIP ANCHOR AT 12" O.C.

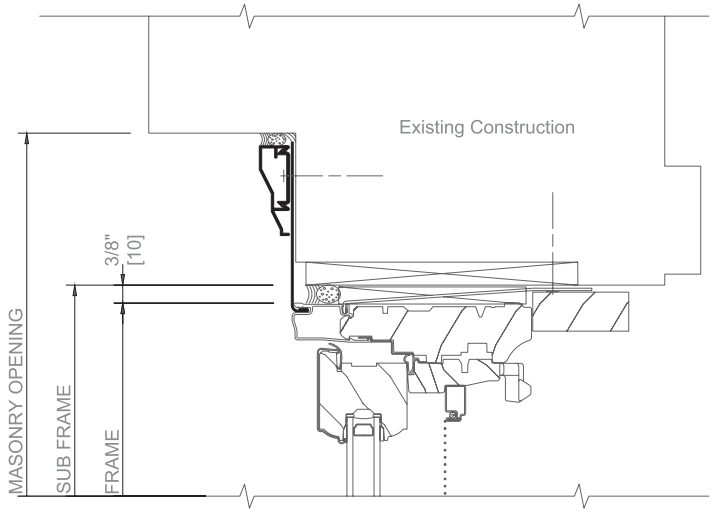


JAMB
SHOWN WITH T-SUBFRAME

BRICKMOULD #72AP
WITH CLIP #72AQ



BRICKMOULD AND ATTACHING
CLIP ANCHOR AT 12" O.C.



JAMB
SHOWN WITH FRAME EXPANDERS

WINDOW REPLACEMENT FIELD MEASUREMENT GUIDE

(For Existing Wood Double-Hung Windows)

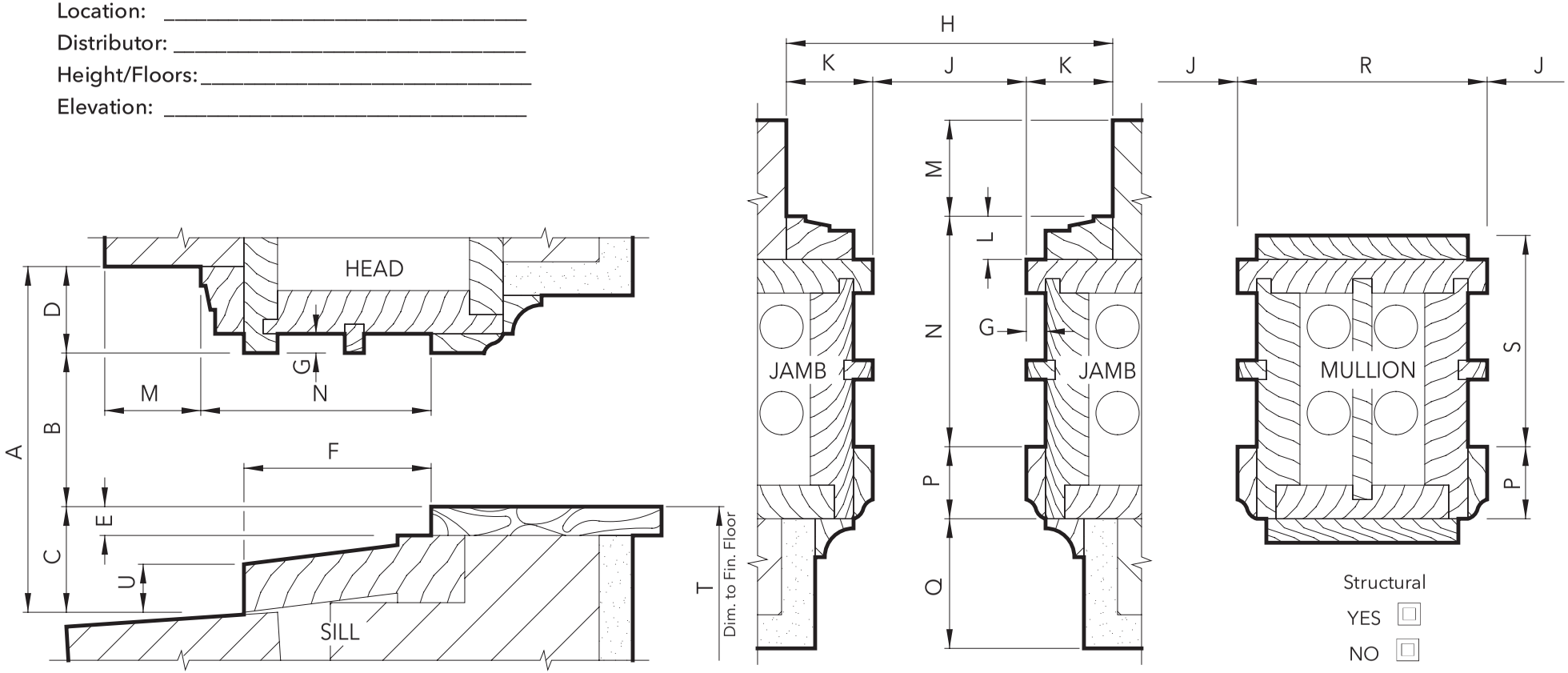
Job Name: _____ Date: _____

Location: _____

Distributor: _____

Height/Floors: _____

Elevation: _____



NOTE: If existing conditions are different than shown, draw and dimension profile on another sheet.

Mark	quantity	A	B	C	D	E	F	G

H	I	J	K	L	M	N	O	P	Q	R	S	T	U

Product Type: _____ Glazing: _____ Hardware/Option: _____

Pella Corporation, Pella, IA

Sheet Number _____ of _____

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WINDOW REPLACEMENT FIELD MEASUREMENT GUIDE

(For Existing Wood Double-Hung Windows)

Job Name: _____

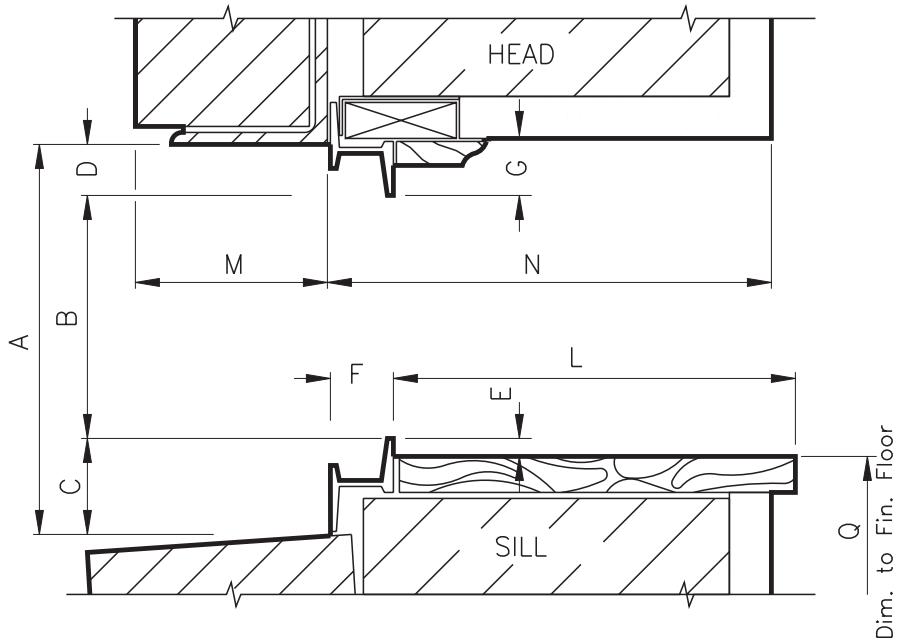
Location: _____

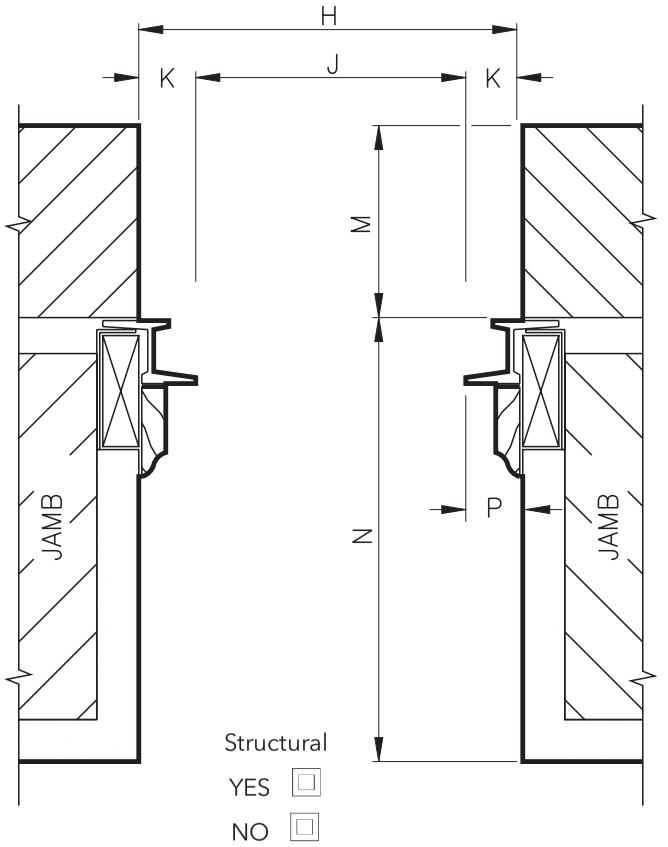
Distributor: _____

Height/Floors: _____

Elevation: _____

Date: _____





NOTE: If existing conditions are different than shown, draw and dimension profile on another sheet.

Mark	quantity	A	B	C	D	E	F	G

H	I	J	K	L	M	N	O	P	Q	R	S	T	U

Product Type: _____ Glazing: _____ Hardware/Option: _____

Pella Corporation, Pella, IA

Sheet Number _____ of _____

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