EXISTING BUILDING TIE-IN DETAILS TABLE OF CONTENTS

4.7.1

GENERAL INFORMATION

1. Re-working, cutting, reaming, shimming and fitting of structural connections may be required to match actual field conditions to make the tie-in structurally and aesthetically adequate.
2. Some roof details shown in this section are pictured with roof purlins. Some of the details may also be used in conjunction with roof joists.
3. Roof to wall tie-in details may require fieldwork to ensure weather tight conditions.
4. Valley Steel is not responsible for closures, flashing, mastic, fasteners, or any other accessories that may be required to adequately weatherproof existing wall and/or roof panels.

IMPORTANT NOTE:

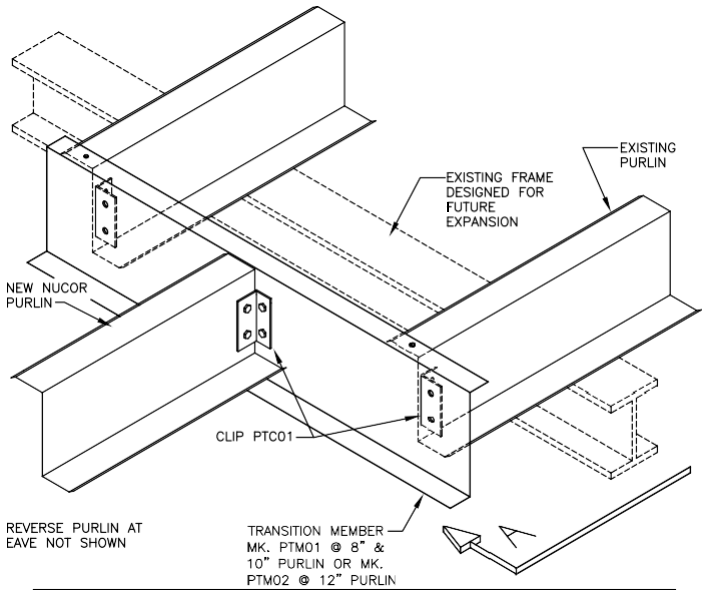
In the case where a Valley Steel building is tying into an existing building, it is possible that the Valley Steel building will impose additional loads onto the existing structure. The Project Engineer of Record (not the metal building supplier) must investigate the existing building to insure it remains structurally adequate for strength and stability considerations with the additional loads. This may also be performed by a design professional retained by the building owner. In a case where the existing building is a Valley Steel structure, Valley Steel can provide this investigation via special request from the Builder for an additional charge. Valley Steel shall not be construed as the Project Engineer of Record on any project, and shall not be held responsible for the effects or the design of existing structures. Water runoff from the existing building may invalidate the Galvalume warranty on the new roof. Also, tie-in flashings are not by Valley Steel.

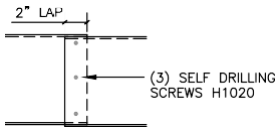
LAST REVISION
DATE: 03/10/15
BY: AAJ MDK

SECONDARY FRAMING

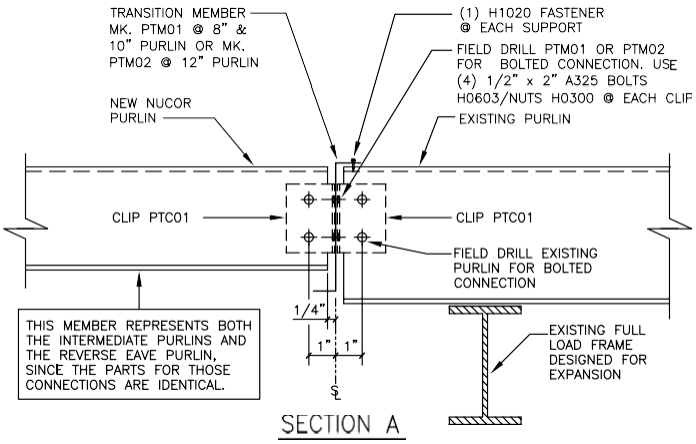
BJ0030 – PURLIN CONNECTION TO EXISTING NON-VALLEY STEEL BUILDING (W/ EXISTING FRAME)

CHK:





TRANSITION MEMBER LAP DETAIL



SECTION A

PURLIN CONNECTION @ EXISTING BUILDING

EXISTING PURLIN W/ EXISTING FRAME
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

BJ0030

LAST REVISION

DATE: 02/16/15

BY: AK EGB

DETAIL NAME IF APPLICABLE

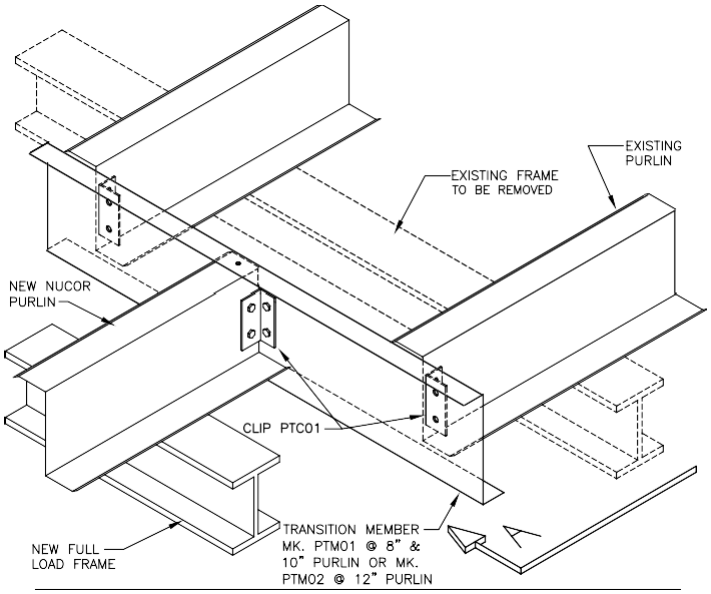
BJ0030.DWG

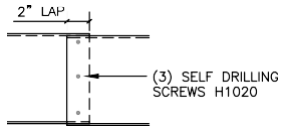
4.7.3

CHK:

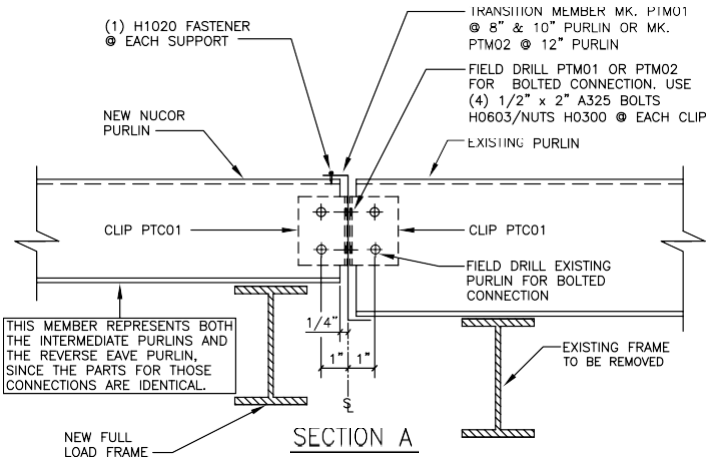
4.7.4

BJ0040 – PURLIN CONNECTION TO EXISTING NON-VALLEY STEEL BUILDING (W/ NEW FRAME)





TRANSITION MEMBER LAP DETAIL



SECTION A

PURLIN CONNECTION @ EXISTING BUILDING

EXISTING PURLIN W/ NEW FRAME
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

BJ0040

DETAIL APPLICABLE

4.7.5

CHK:

LAST REVISION

DATE: 02/16/15

NAME IF

BJ0030.DWG

DETAIL APPLICABLE

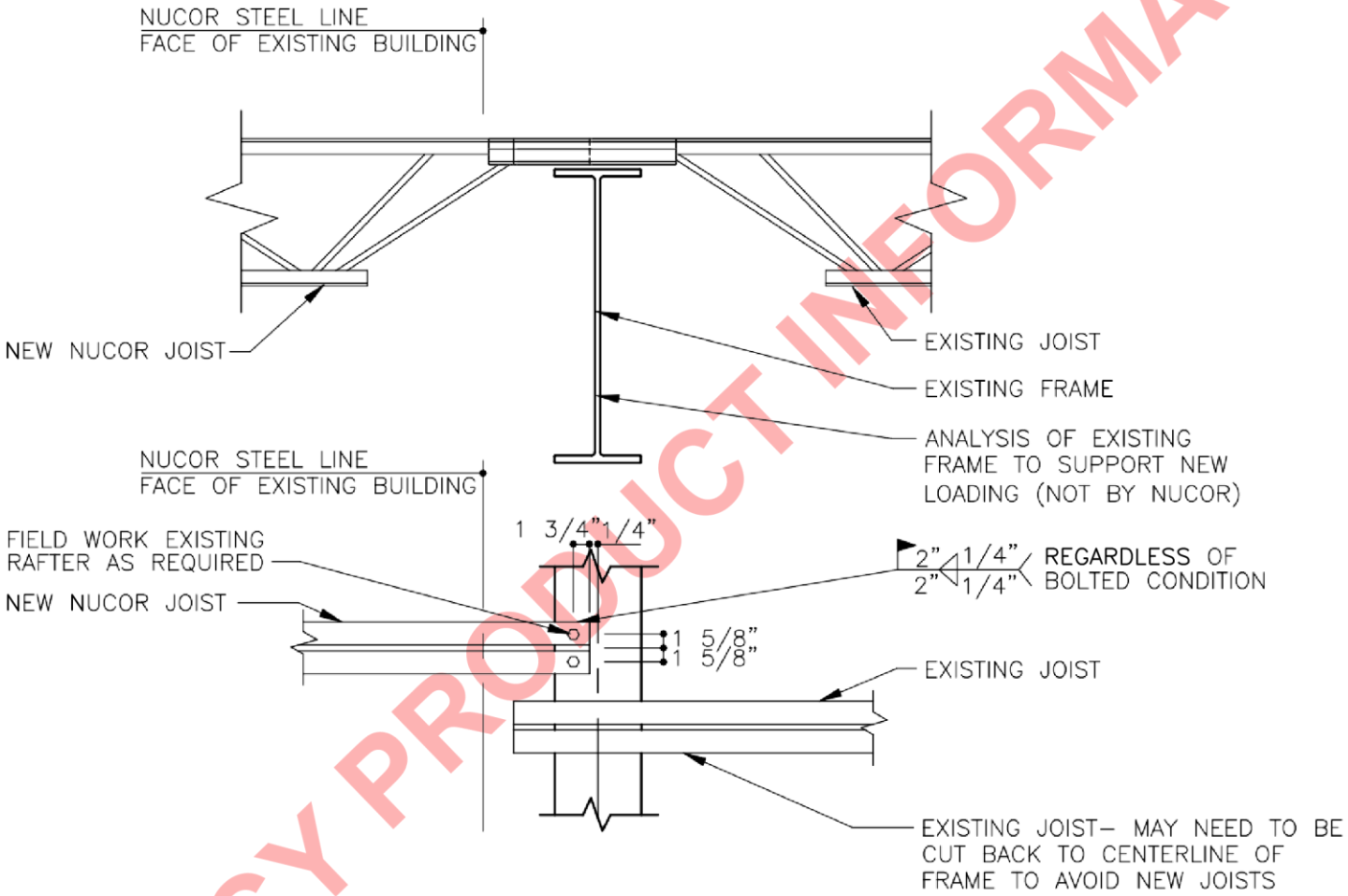
CHK:

4.7.6

BY: AK EGB

BT0010PE – OPTIONAL JOIST CONNECTION TO NON-NUCOR BUILDING (EXISTING FRAME)

NOTE: THE NEW HIGH EAVE OR RIDGE JOIST MUST BE HELD 1'–4 DOWN FROM THE HIGH EAVE STEEL LINE OR THE RIDGE IN ORDER FOR THE CFR SYSTEM TO WORK PROPERLY. THE EXISTING JOIST MAY NEED TO BE FIELD CUT TO ALLOW FOR THIS CONDITION. FIELD WORK OF SOME EXISTING JOISTS MAY BE REQUIRED TO AVOID INTERFERENCE WITH NEW JOISTS.



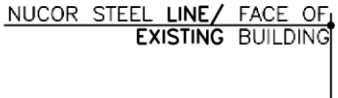
DATE: 07/08/02 **BT0010PE.DWG** **4.7.5** BY: EGB CHK: RJF

DETAIL APPLICABLE

CHK:

4.7.8

BT0020PE – OPTIONAL JOIST CONNECTION TO NON-NUCOR BUILDING (NEW FRAME)



DATE: 02/09/01
BY: CDM RJF

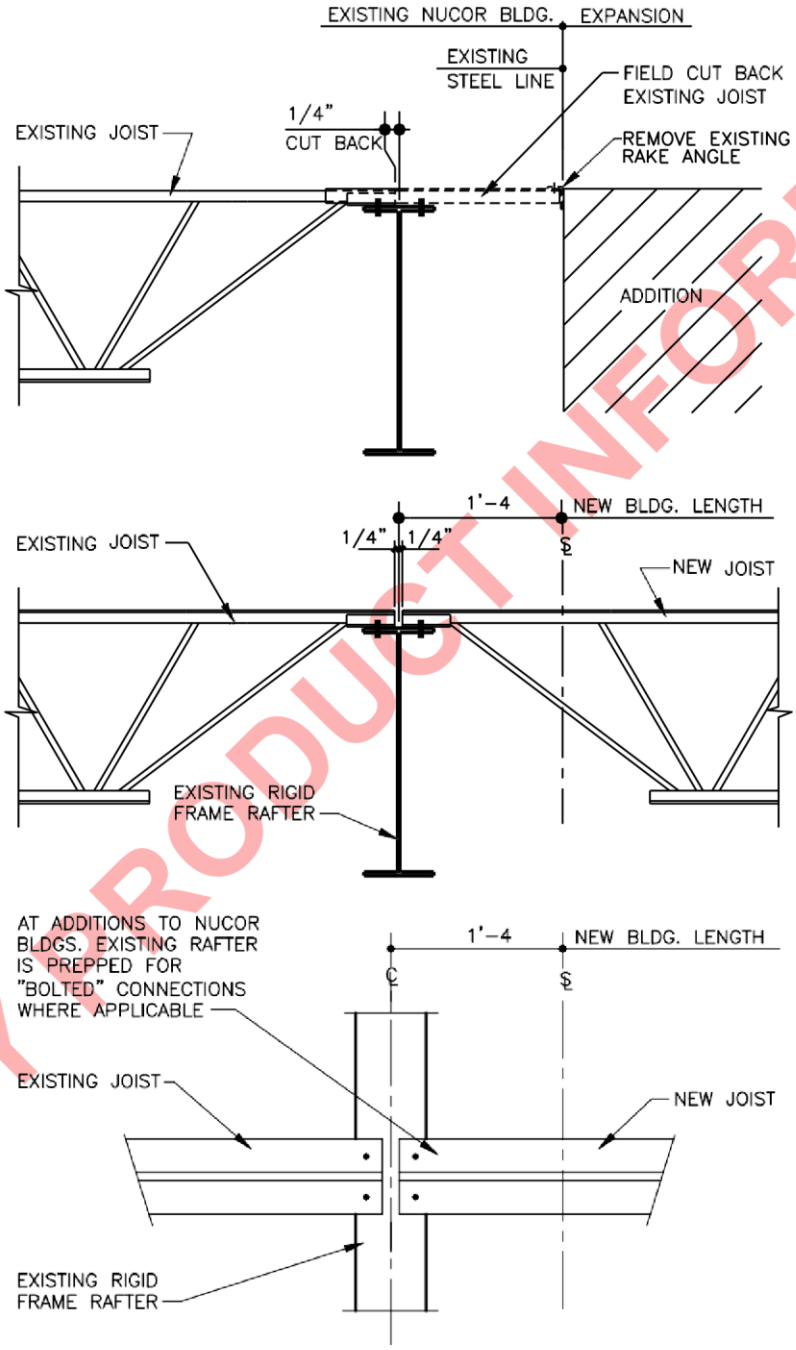
BT0020PE.DWG

DETAIL APPLICABLE

CHK:

4.7.10

BT0030PE – STANDARD JOIST CONNECTION AT EXPANDABLE ENDWALL (FULL LOAD FRAME)



DETAIL APPLICABLE	LAST REVISION	NAME IF
CHK:	4.7.11	

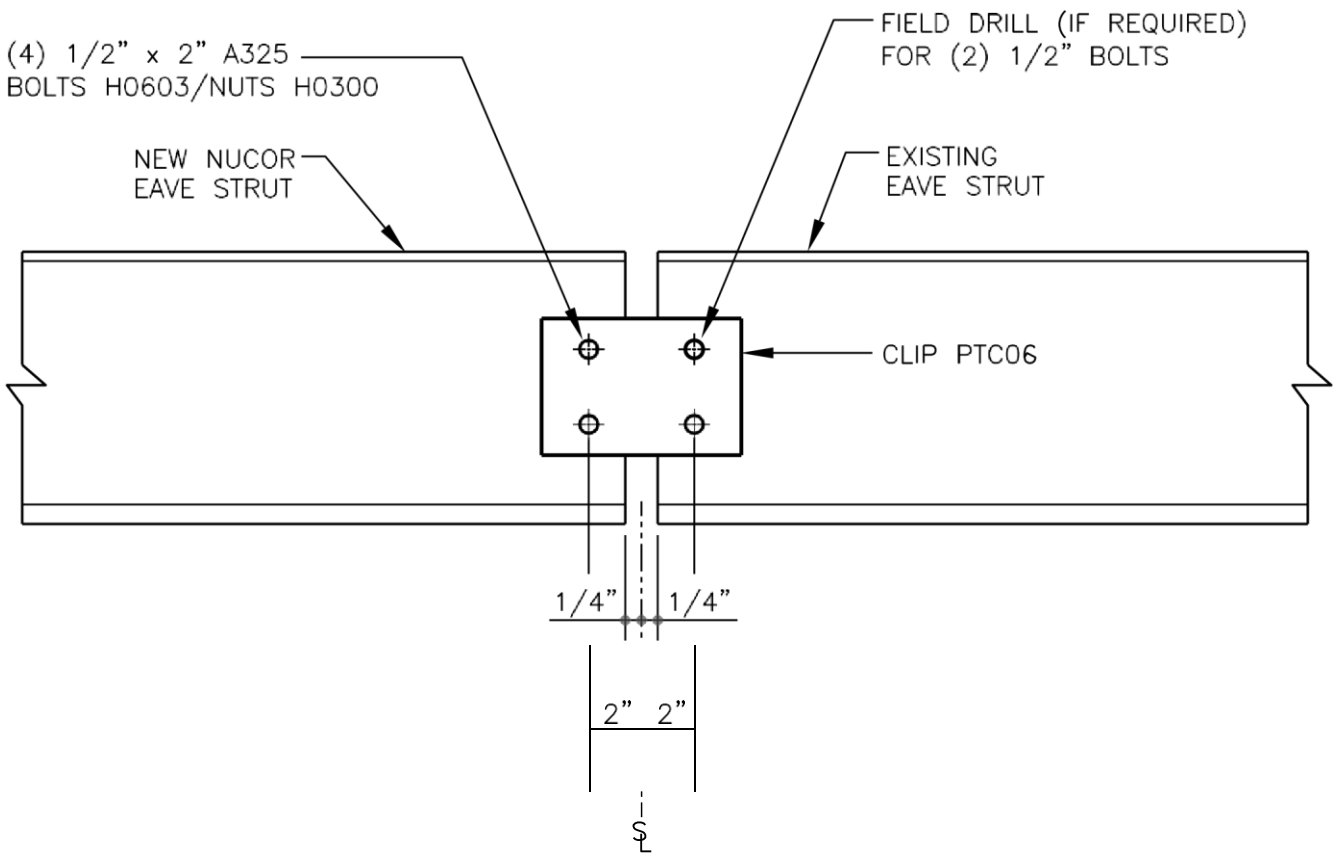
VALLEY STEEL CONSTRUCTION INC.

DATE: 02/09/01
BY: CDM RJF

BT0020PE.DWG

PRODUCT & ENGINEERING MANUAL

BJ0090 – EAVE STRUT TO EXISTING @ HIGH SIDE OF BUILDING



EAVE STRUT CONN AT EXISTING BUILDING

NUCOR EXISTING EAVE STRUT @ HIGH SIDE OF BUILDING
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

BJ0090

LAST DETAIL
DATE: **4.7.12**
BY: CHK:

APPLICABLE

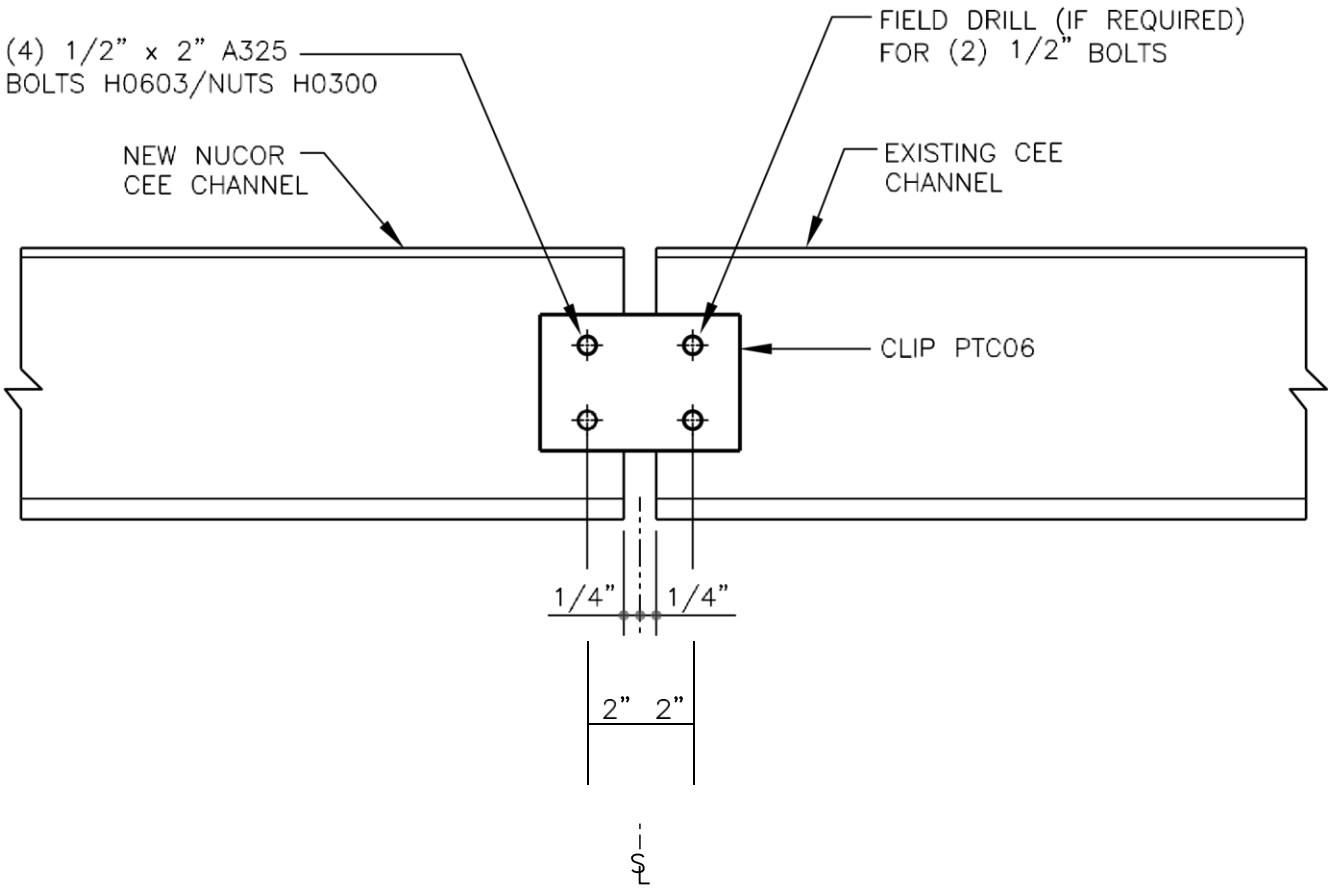
REVISION 02/16/15

NAME IF

AK EGB

BJ0090.DWG

BJ0100 – CEE CHANNEL TO EXISTING @ HIGH SIDE OF BUILDING



CEE CHANNEL CONN AT EXISTING BUILDING

NUCOR EXISTING CEE CHANNEL @ HIGH SIDE OF BUILDING
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

BJ0100

LAST DETAIL

DATE: **4.7.13**

BY: CHK:

APPLICABLE

VALLEY STEEL CONSTRUCTION INC.

REVISION

02/16/15

AK EGB

NAME IF

BJ0100.DWG

LAST DETAIL

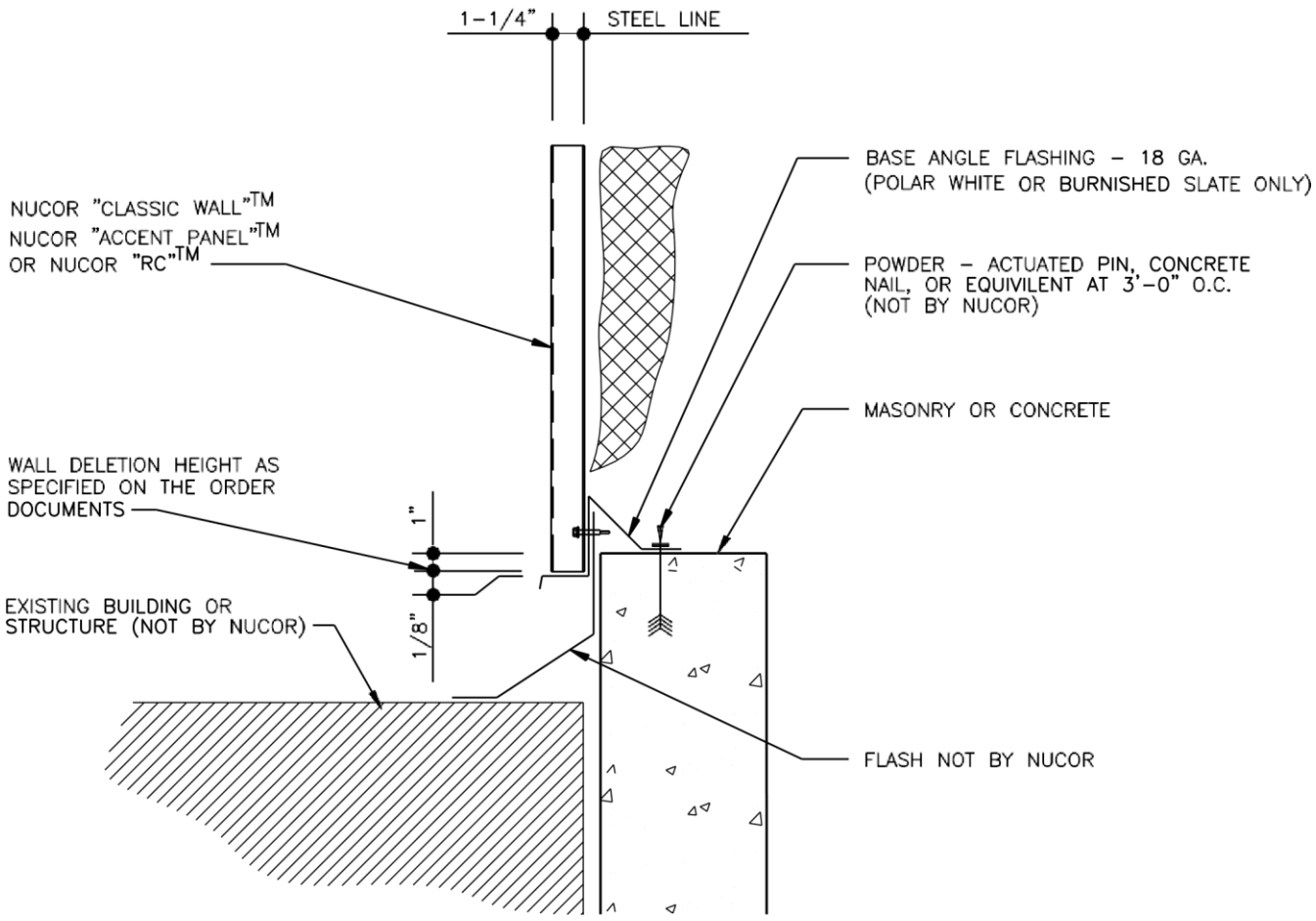
DATE: **4.7.14**

BY: CHK:

APPLICABLE

BT0040PE – STANDARD BASE CONDITION AT MASONRY/CONCRETE (NON-VALLE STEEL BUILDING TIE-IN)

(3/32" X 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0 ABOVE THE LOWER BUILDING ROOF LINE.)



LAST DETAIL APPLICABLE

DATE: 4.7.15

BY: CDM CHK: RJF

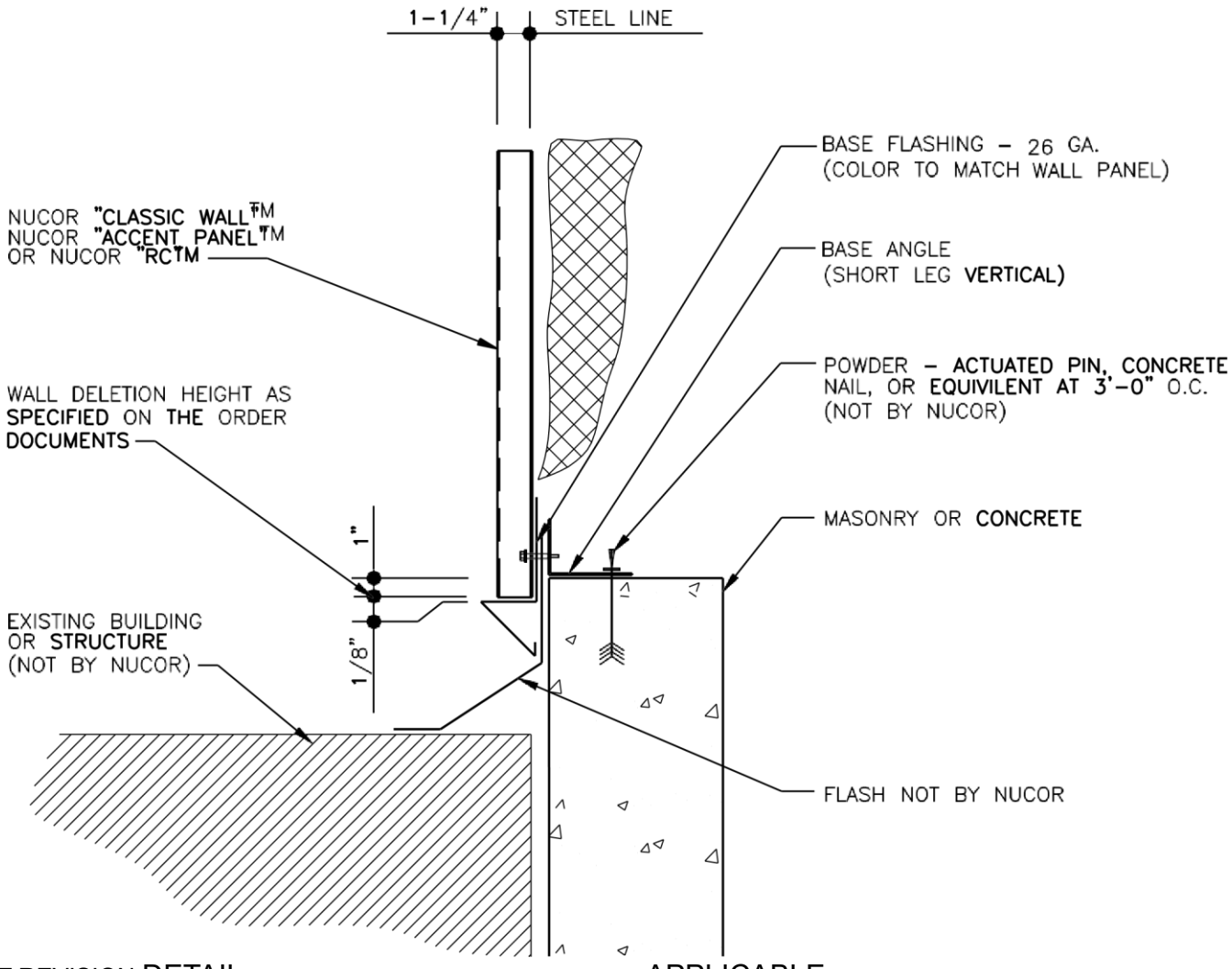
NAME IF

02/09/01

BT0040PE.DWG

BT0050PE – OPTIONAL BASE CONDITION AT MASONRY/CONCRETE (NON-VALLEY STEEL BUILDING TIE-IN)

(3/32" X 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0 ABOVE THE LOWER BUILDING ROOF LINE.)



LAST REVISION DETAIL APPLICABLE

DATE: 4.7.16

BY: CDM CHK: RJF

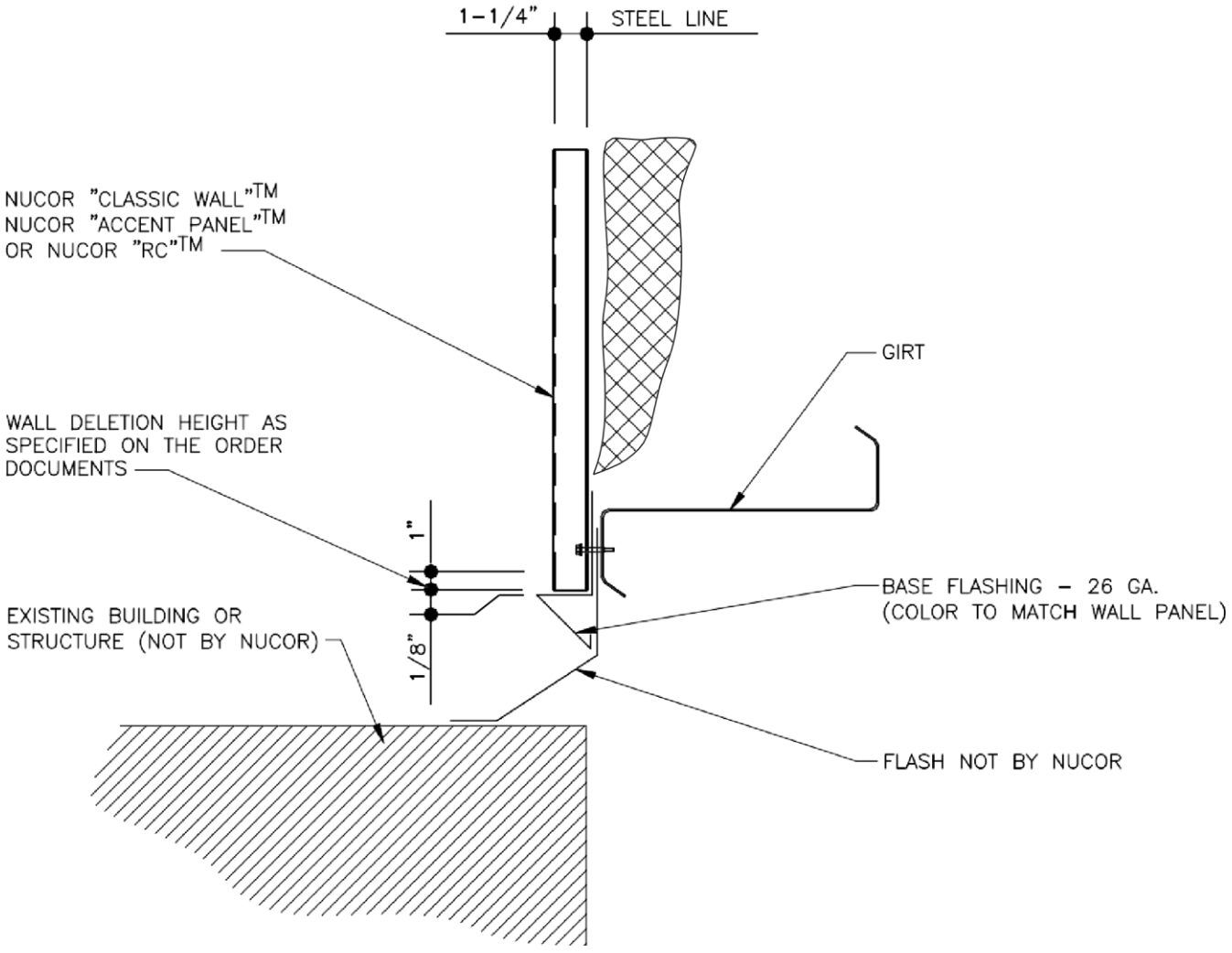
REVISION
~~02/09/01~~

NAME IF

BT0050PE.DWG

BT0060PE – STANDARD BASE CONDITION AT METAL WALL (NON-VALLEY STEEL BUILDING TIE-IN)

(3/32" X 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0 ABOVE THE LOWER BUILDING ROOF LINE.)



LAST DETAIL APPLICABLE

DATE: **4.7.17**

BY: CDM CHK: RJF

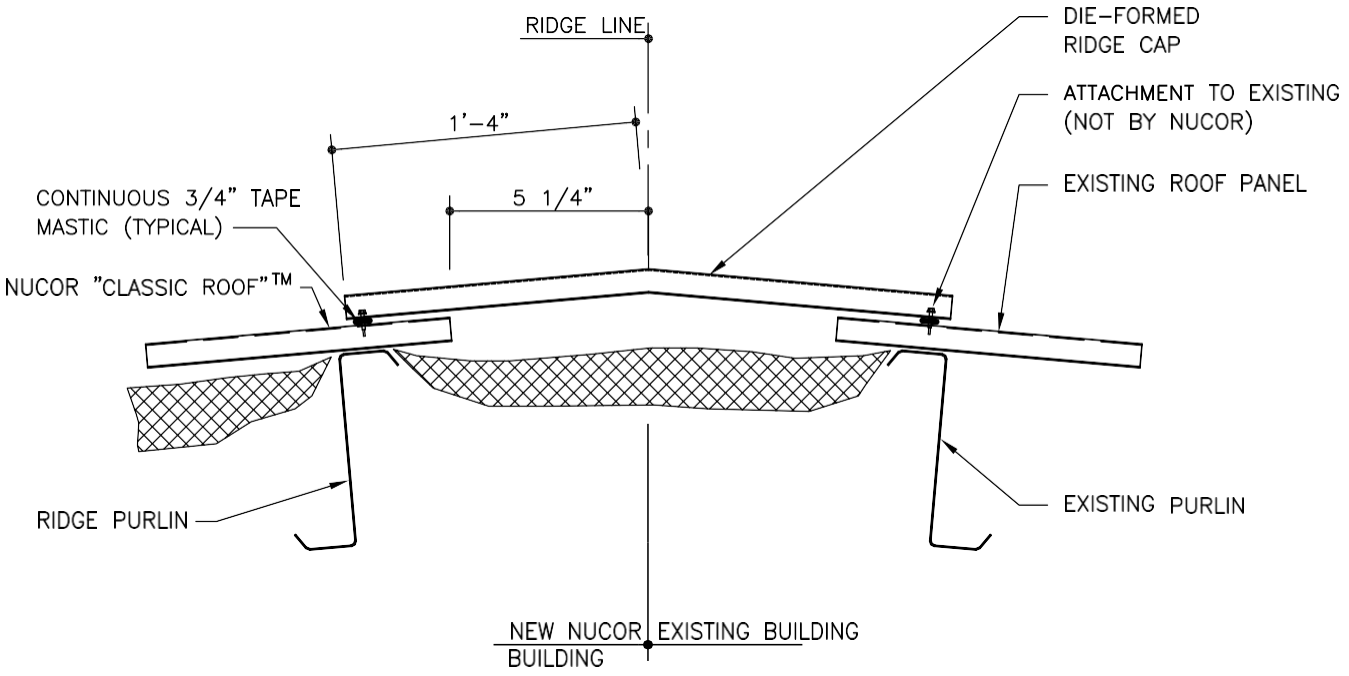
NAME IF

02/09/01

BT0060PE.DWG

ROOF SHEETING: VALLEY STEEL CLASSIC ROOF™

BT0070PE – VALLEY STEEL CLASSIC ROOF™ PANEL TO EXISTING ROOF PANEL AT RIDGE



DETAIL APPLICABLE

BY: AK CHK: EGB

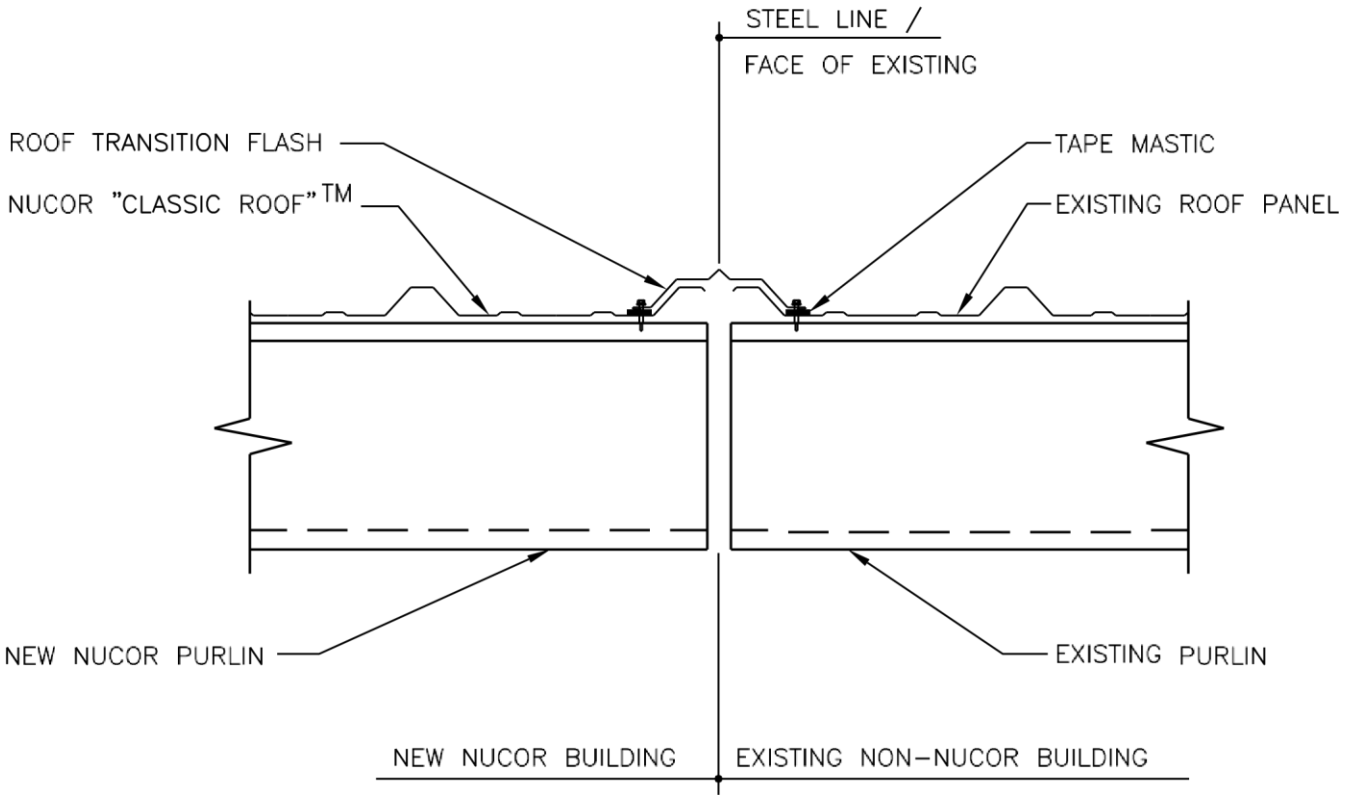
4.7.19

LAST REVISION
DATE: 02/16/15

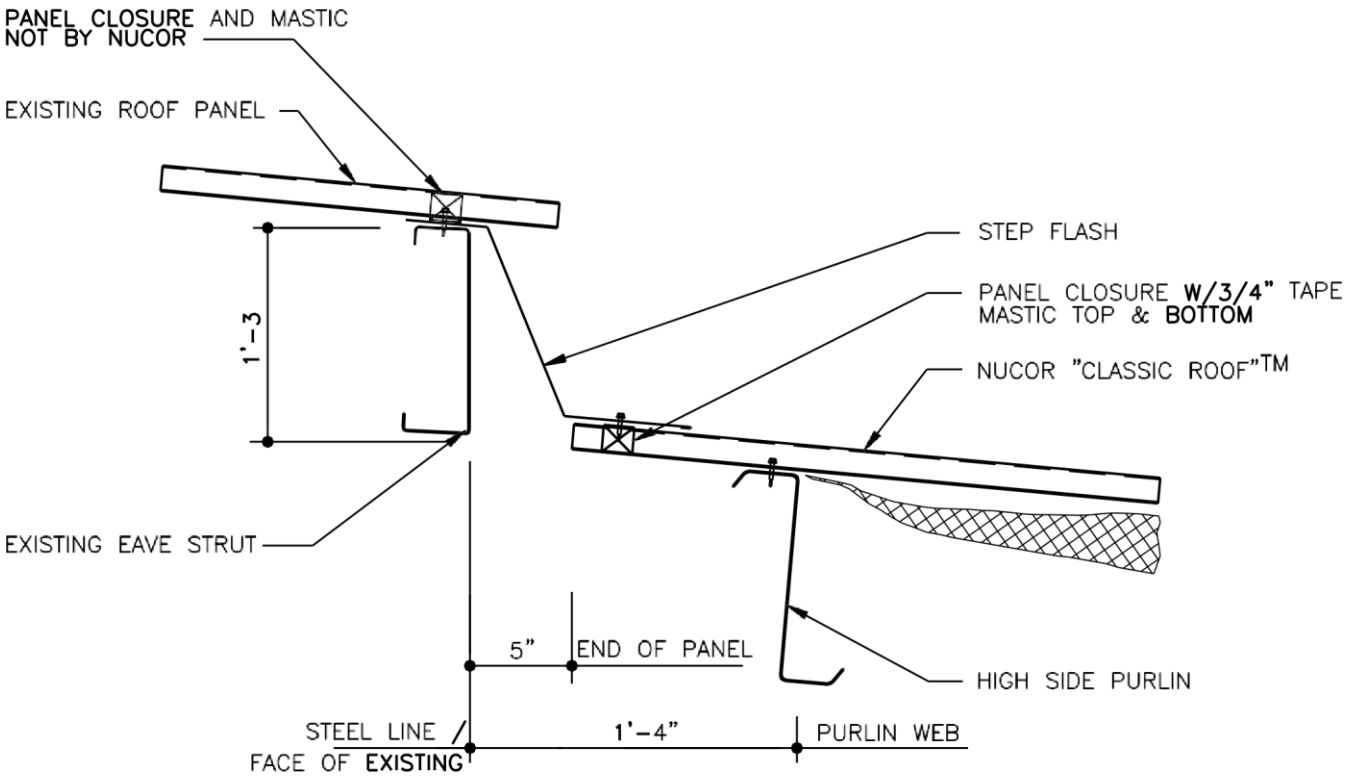
NAME IF

BT0070PE.DWG

BT0080PE – VALLEY STEEL CLASSIC ROOF™ PANEL TO EXISTING ROOF PANEL AT RAKE

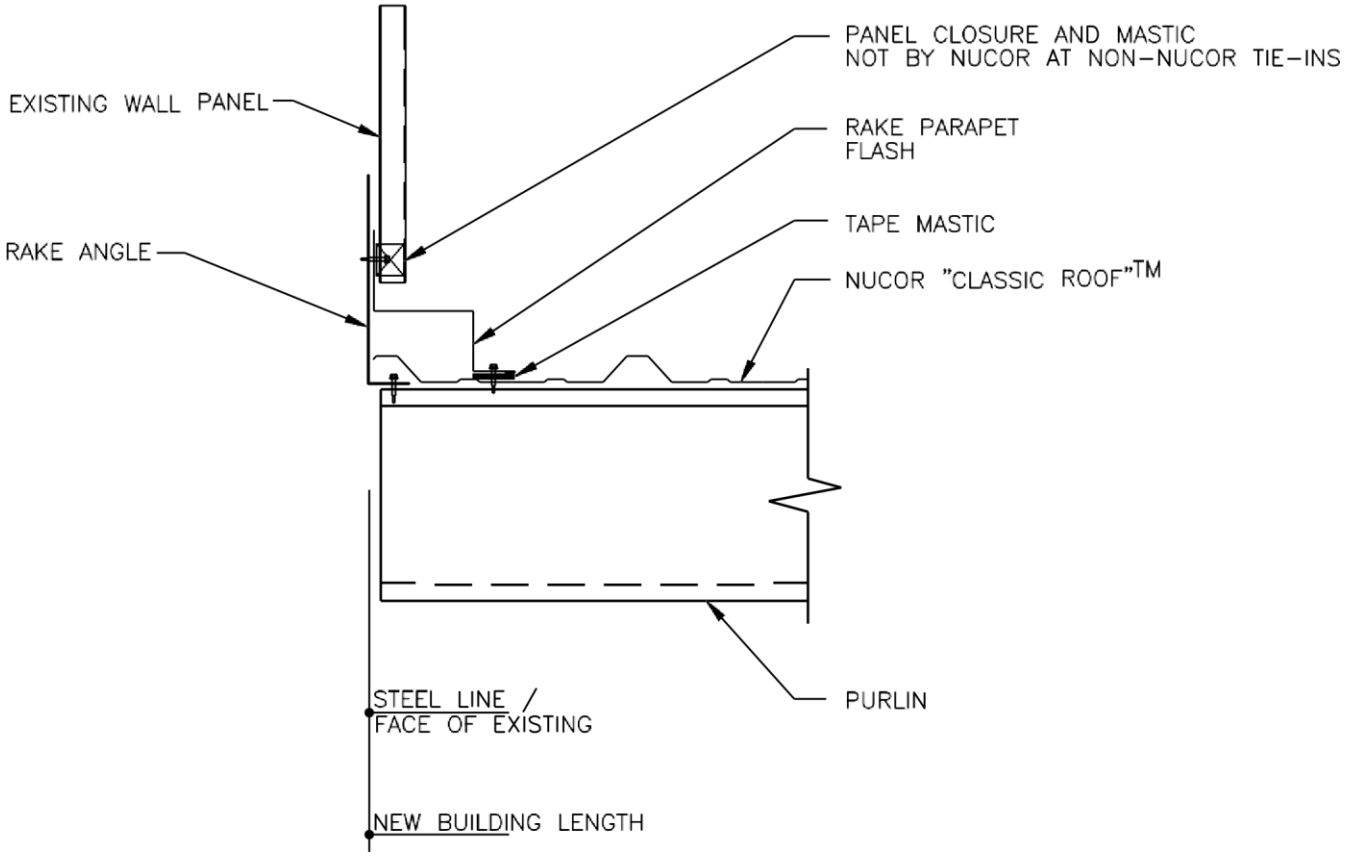


BT0090PE – VALLEY STEEL CLASSIC ROOF™ PANEL TO EXISTING ROOF PANEL AT ROOF STEP

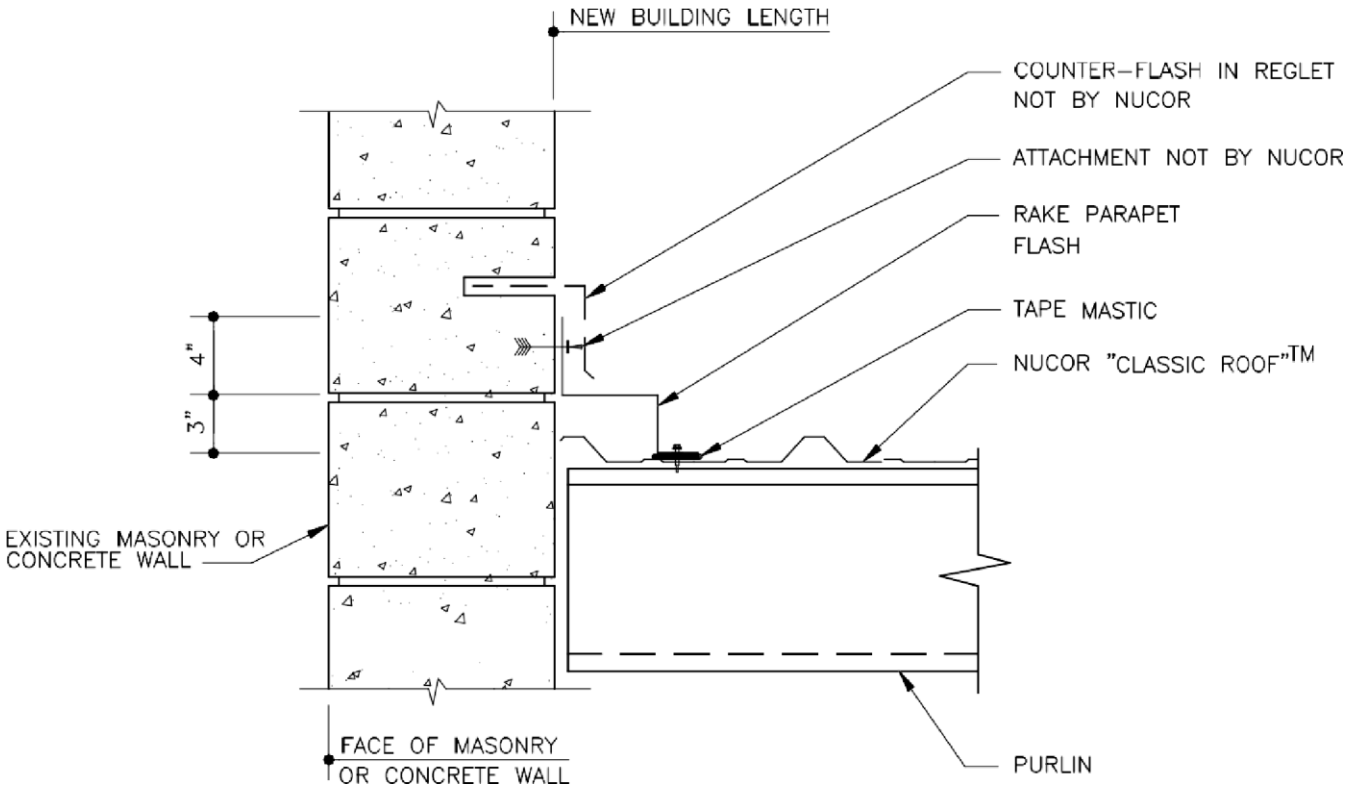


BT0100PE – VALLEY STEEL CLASSIC ROOF™ PANEL RAKE PARAPET TO EXISTING BUILDING

(3/32" X 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'-0 ABOVE THE LOWER BUILDING ROOF LINE.)

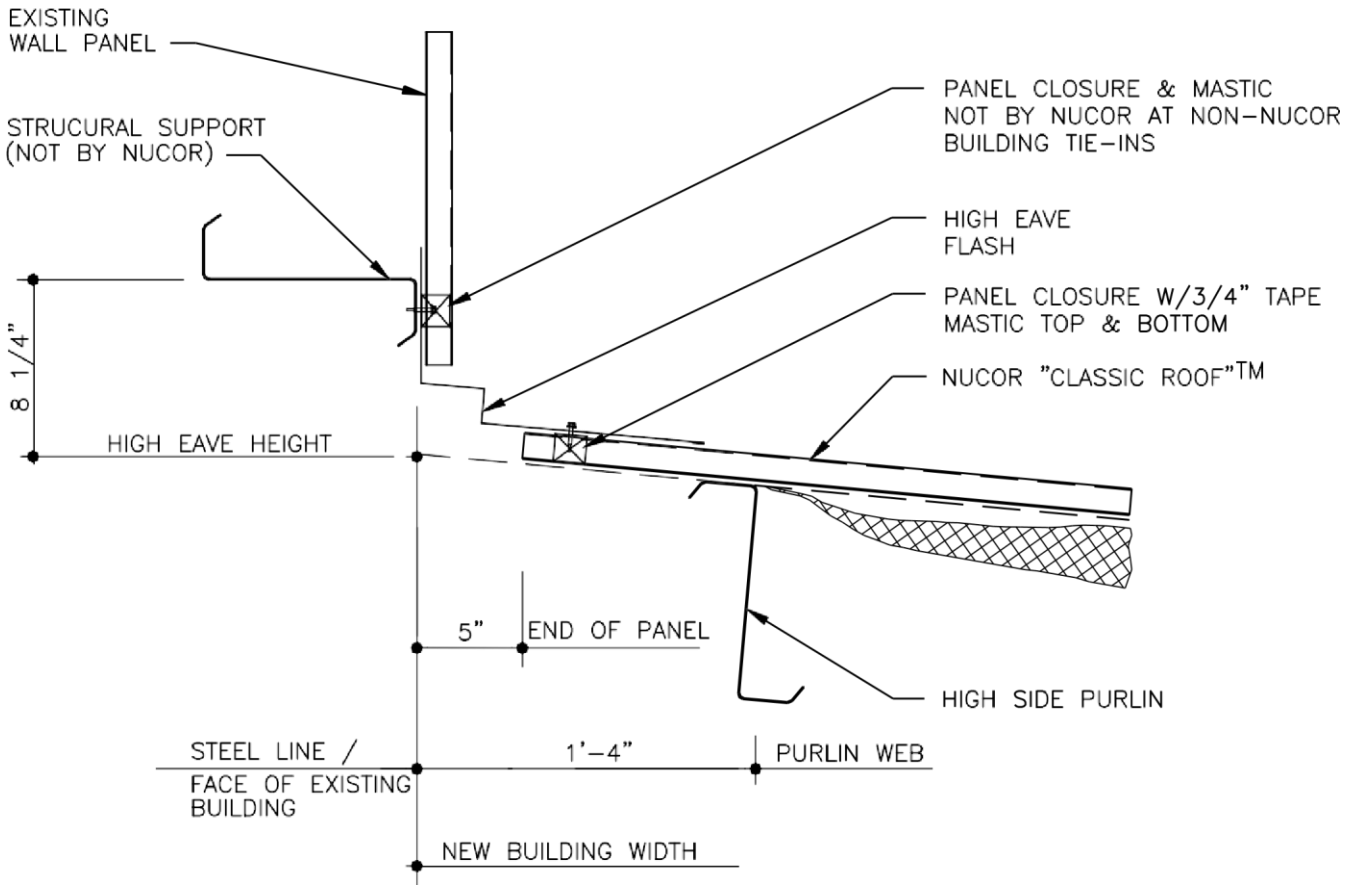


BT0110PE – VALLEY STEEL CLASSIC ROOF™ PANEL RAKE PARAPET TO MASONRY OR CONCRETE

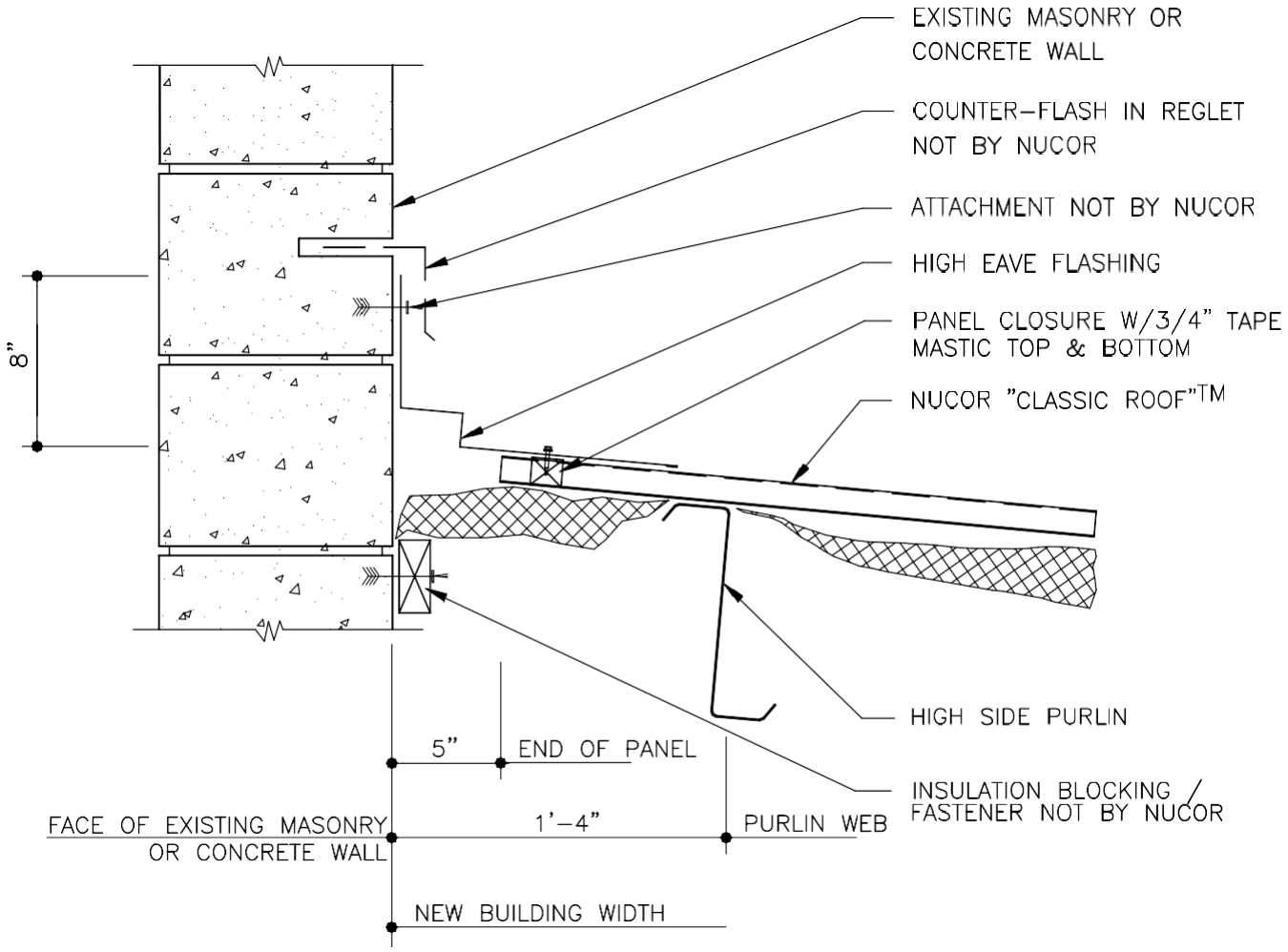


BT0120PE – VALLEY STEEL CLASSIC ROOF™ PANEL HIGH EAVE PARAPET TO EXISTING BUILDING

(3/32" X 1/2" TAPE MASTIC IS PROVIDED FOR WALL PANEL SIDELAPS AT THIS CONDITION DUE TO THE POTENTIAL OF SNOW PILING UP AGAINST THE PANELS. THE MASTIC SHOULD BE INSTALLED FROM THE BOTTOM OF THE WALL PANEL ELEVATION TO 10'–0 ABOVE THE LOWER BUILDING ROOF LINE.)



BT0130PE – VALLEY STEEL CLASSIC ROOF™ PANEL RAKE PARAPET TO MASONRY OR CONCRETE

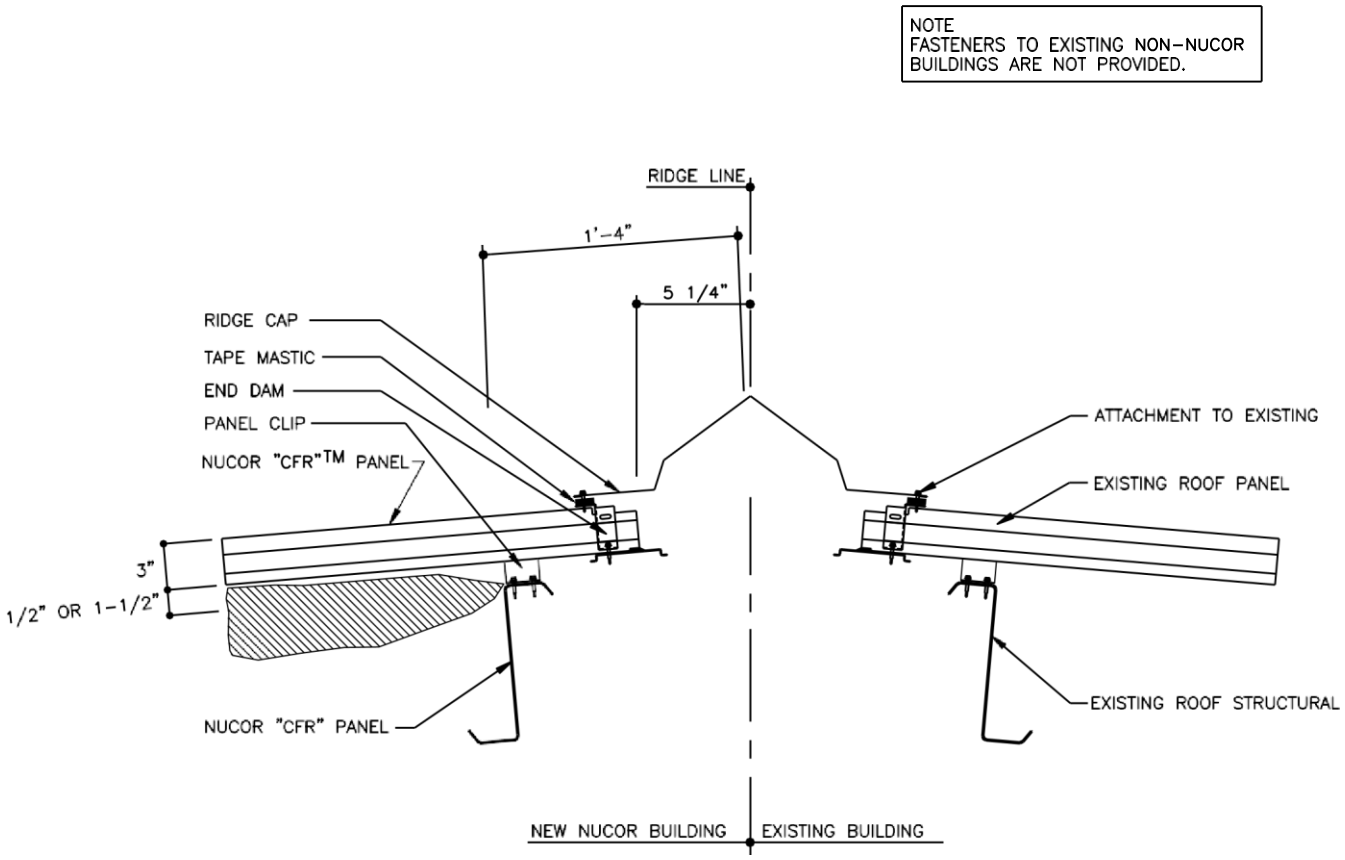


LAST REVISION DETAIL
DATE: 02/16/15
BY: AK CHK: EGB

NAME IF APPLICABLE
4.7.25
BT0080PE.DWG

ROOF SHEETING: VALLEY STEEL CFR™ ROOF

BT0140PE – VALLEY STEEL CFR™ ROOF PANEL TO EXISTING BUILDING AT RIDGE



1. Refer to “Section 11.6” of the Product and Engineering Manual for all standard CFR Expansion Joint Details.

DETAIL APPLICABLE

BY: AK CHK: EGB

4.7.26

VALLEY STEEL CONSTRUCTION INC.

LAST REVISION DATE:
02/16/15

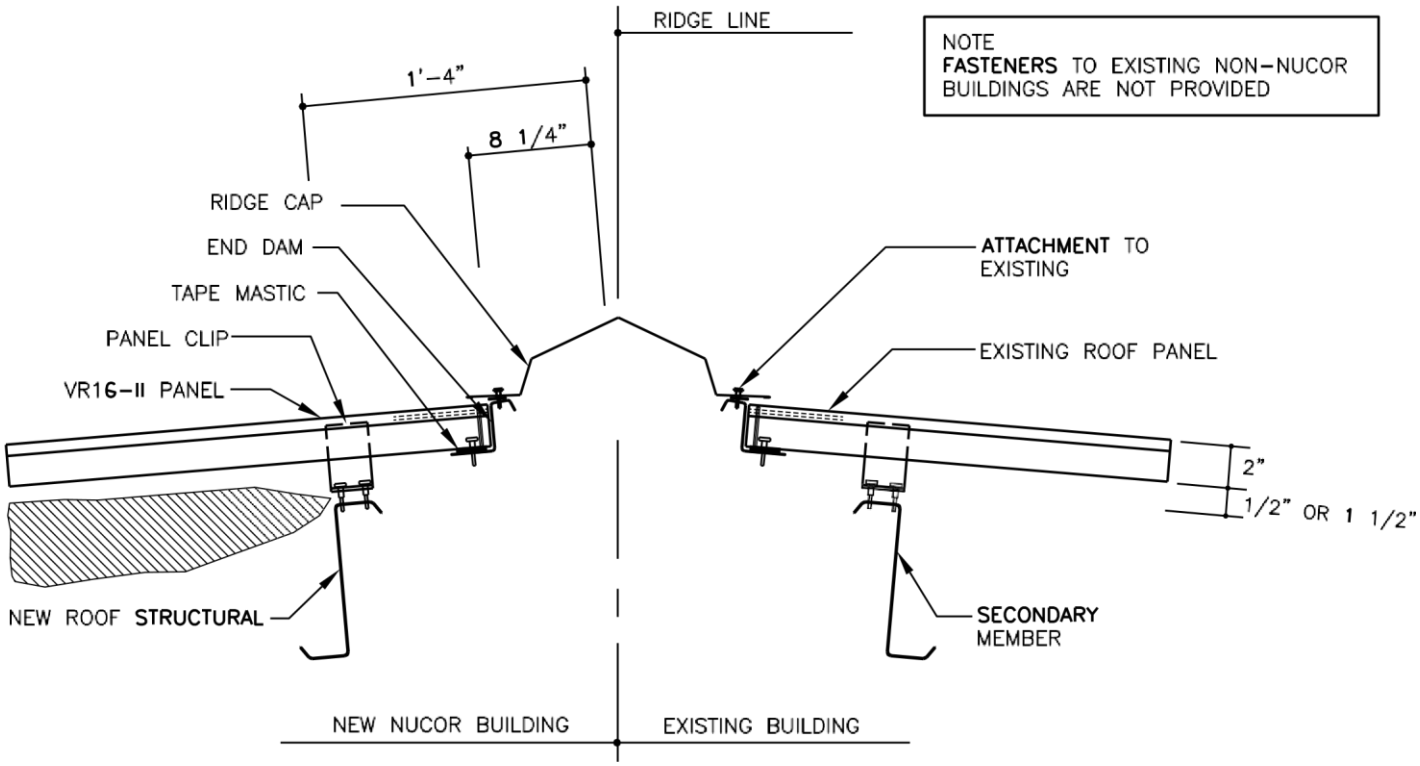
NAME IF

BT0140PE.DWG

PRODUCT & ENGINEERING MANUAL

ROOF SHEETING: VALLEY STEEL VR16-II™ ROOF

BT0145PE – VALLEY STEEL VR16-II™ ROOF PANEL TO EXISTING BUILDING AT RIDGE



1. Refer to “Section 11.7” of the Product and Engineering Manual for all standard VR16-II Expansion Joint Details.

DETAIL APPLICABLE

4.7.27

BY: CHK:

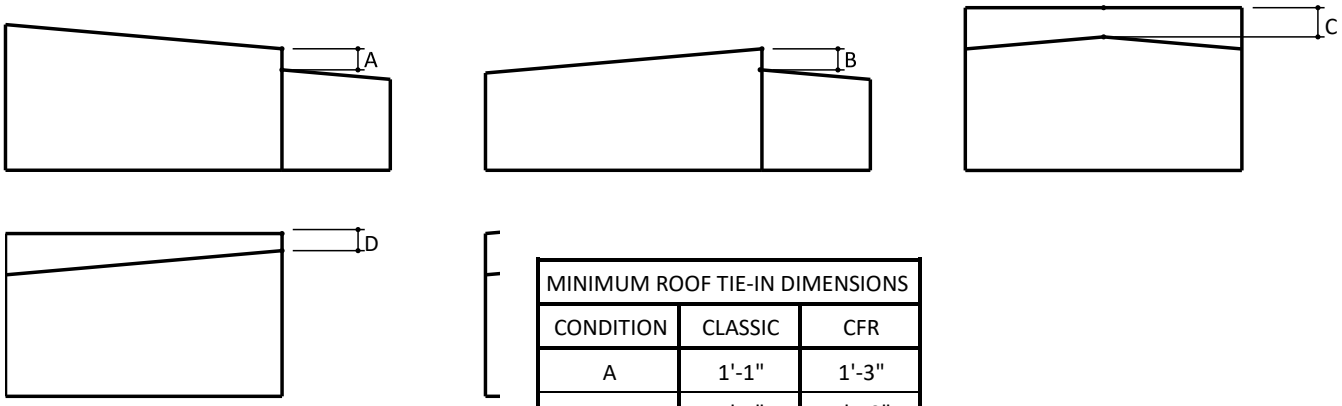
VALLEY STEEL CONSTRUCTION INC.

LAST REVISION
DATE: 10/20/09
DPS KMC

NAME IF
BT0145PE.DWG

PRODUCT & ENGINEERING MANUAL

BT0150PE – STANDARD DIMENSIONS FOR ROOF TIE-IN TO EXISTING BUILDINGS



MINIMUM ROOF TIE-IN DIMENSIONS		
CONDITION	CLASSIC	CFR
A	1'-1"	1'-3"
B	1'-1"	1'-10"
C	10"	1'-6"
D	10"	10"
E	1'-1"	2'-3"

LAST REVISION
DATE: 10/17/11
RT EGB

NAME IF
BT0150PE.DWG

DETAIL APPLICABLE

BY: CHK:

4.7.28