

# 2006 IRC Wall Details

Drafted by: 2006 IRC Committee

Accepted by: SNBO

March 28, 2007

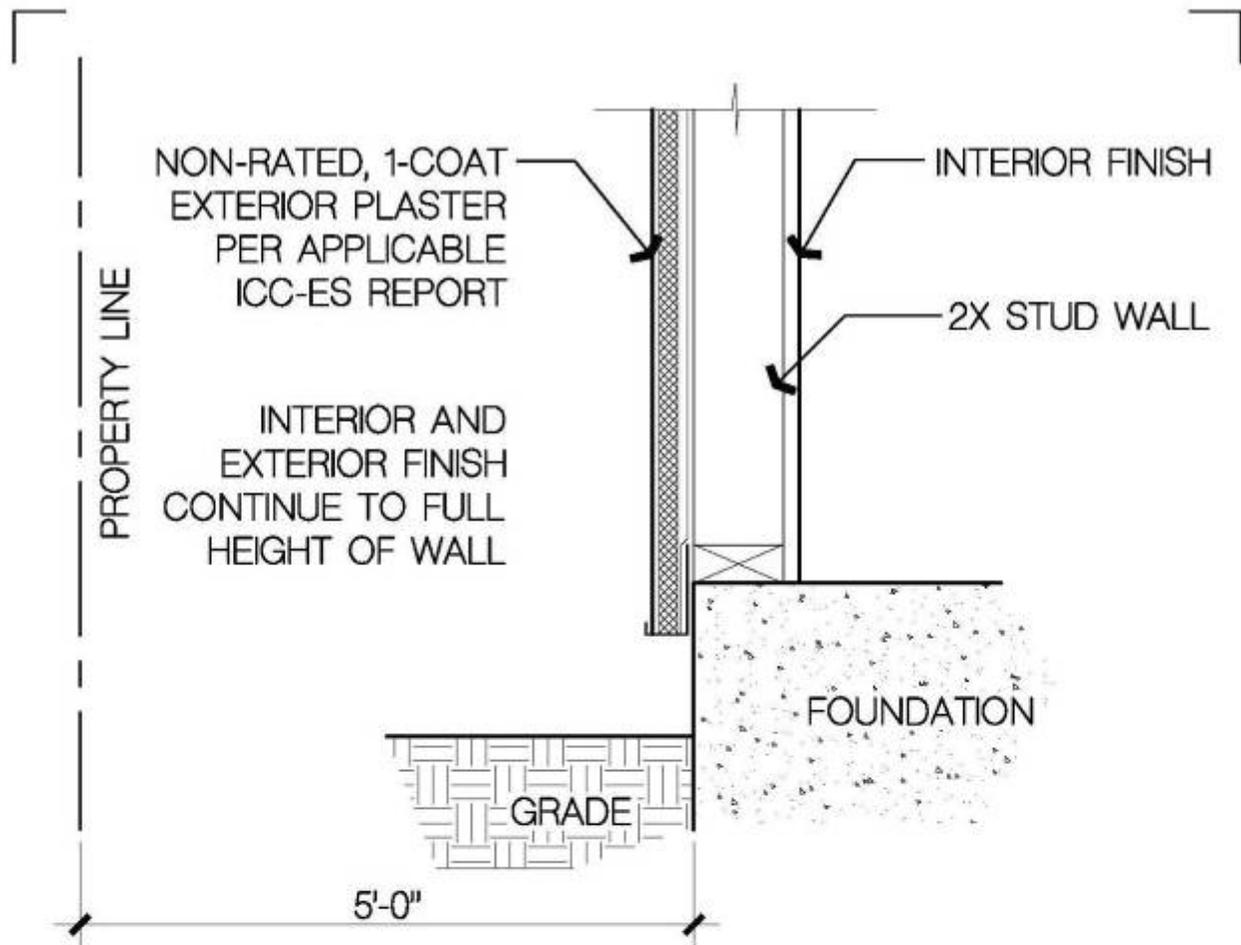
THESE DRAWINGS ARE INTENDED TO ILLUSTRATE CODE INTERPRETATIONS RELEVANT TO SECTION R302.1 AND TABLE R302.1 OF THE 2006 IRC AS AMENDED BY SNBO AND ADOPTED BY THE JURISDICTIONS COVERED IN SOUTHERN NEVADA. THESE DRAWINGS DO NOT COMMUNICATE CONSTRUCTION METHODS OR PRACTICES, NOR SHOULD ANY INFERENCE OF ANY CODE INTERPRETATION BEYOND THOSE ITEMS SPECIFIC TO R302.1 AND TABLE R302.1 OCCUR. THE USE OF THIS DRAWING IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING OFFICIAL.

3/28/2007

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THESE DRAWINGS ARE INTENDED TO ILLUSTRATE CODE INTERPRETATIONS RELEVANT TO SECTION R302.1 AND TABLE R302.1 OF THE 2006 IRC AS AMENDED BY SNBO AND ADOPTED BY THE JURISDICTIONS COVERED IN SOUTHERN NEVADA. THESE DRAWINGS DO NOT COMMUNICATE CONSTRUCTION METHODS OR PRACTICES, NOR SHOULD ANY INFERENCE OF ANY CODE INTERPRETATION BEYOND THOSE ITEMS SPECIFIC TO R302.1 AND TABLE R302.1 OCCUR. THE USE OF THIS DRAWING IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING OFFICIAL.



TO DETERMINE WHEN PROTECTION IS REQUIRED BY TABLE R302.1 THE DIMENSION SHALL BE DETERMINED FROM THE PROPERTY LINE TO THE FINISH FACE OF THE WALL, EXCEPT WHERE THE FOUNDATION DIMENSION FROM PROPERTY LINE IS 5 FEET OR GREATER THE FOUNDATION DIMENSION WILL BE USED FOR THAT WALL ONLY.

SOUTHERN NEVADA AMENDMENT TO SECTION R302.1

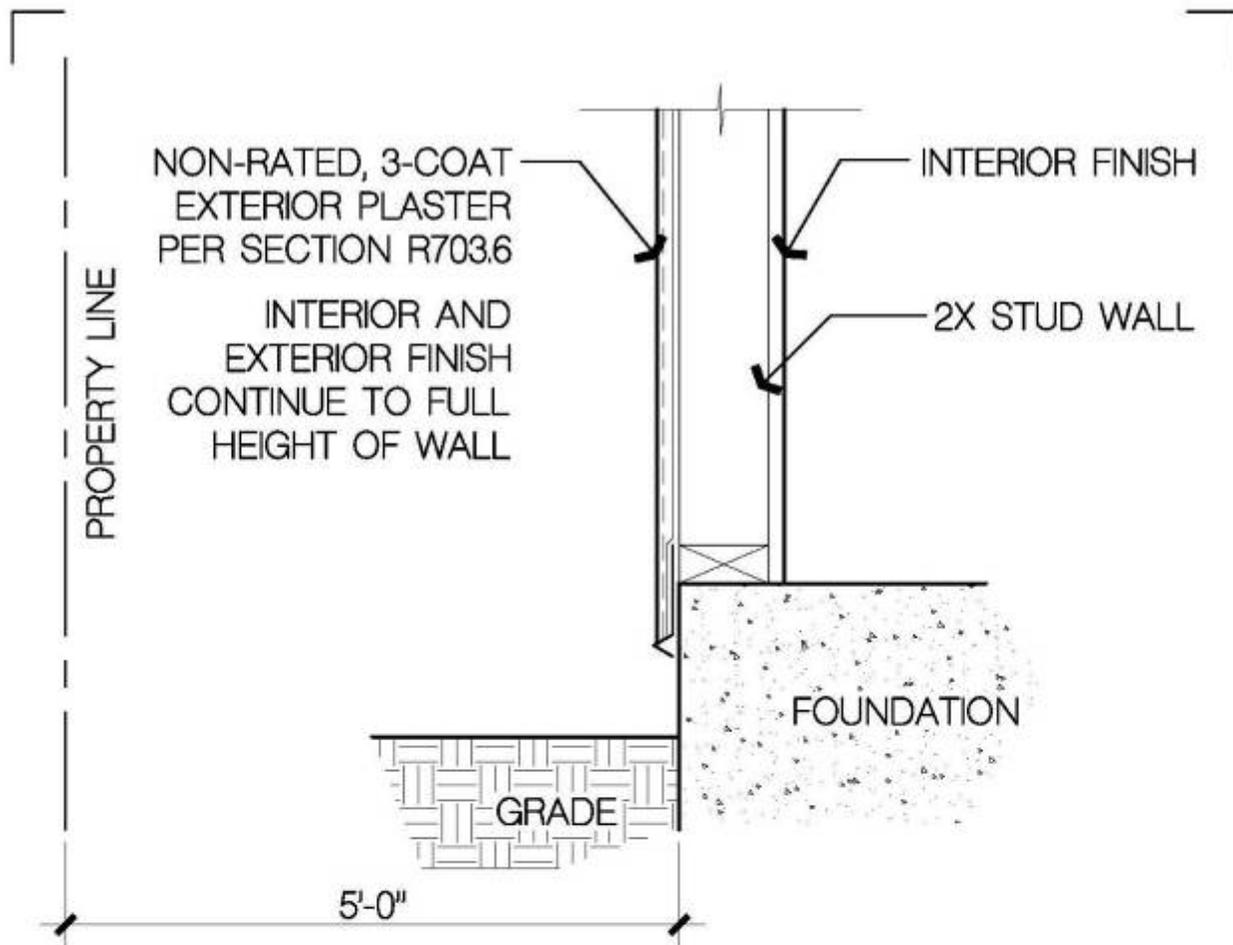
# 1-COAT PLASTER

**N.T.S.**

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**W1**

3/28/2007



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SOUTHERN NEVADA AMENDMENT TO SECTION R302.1

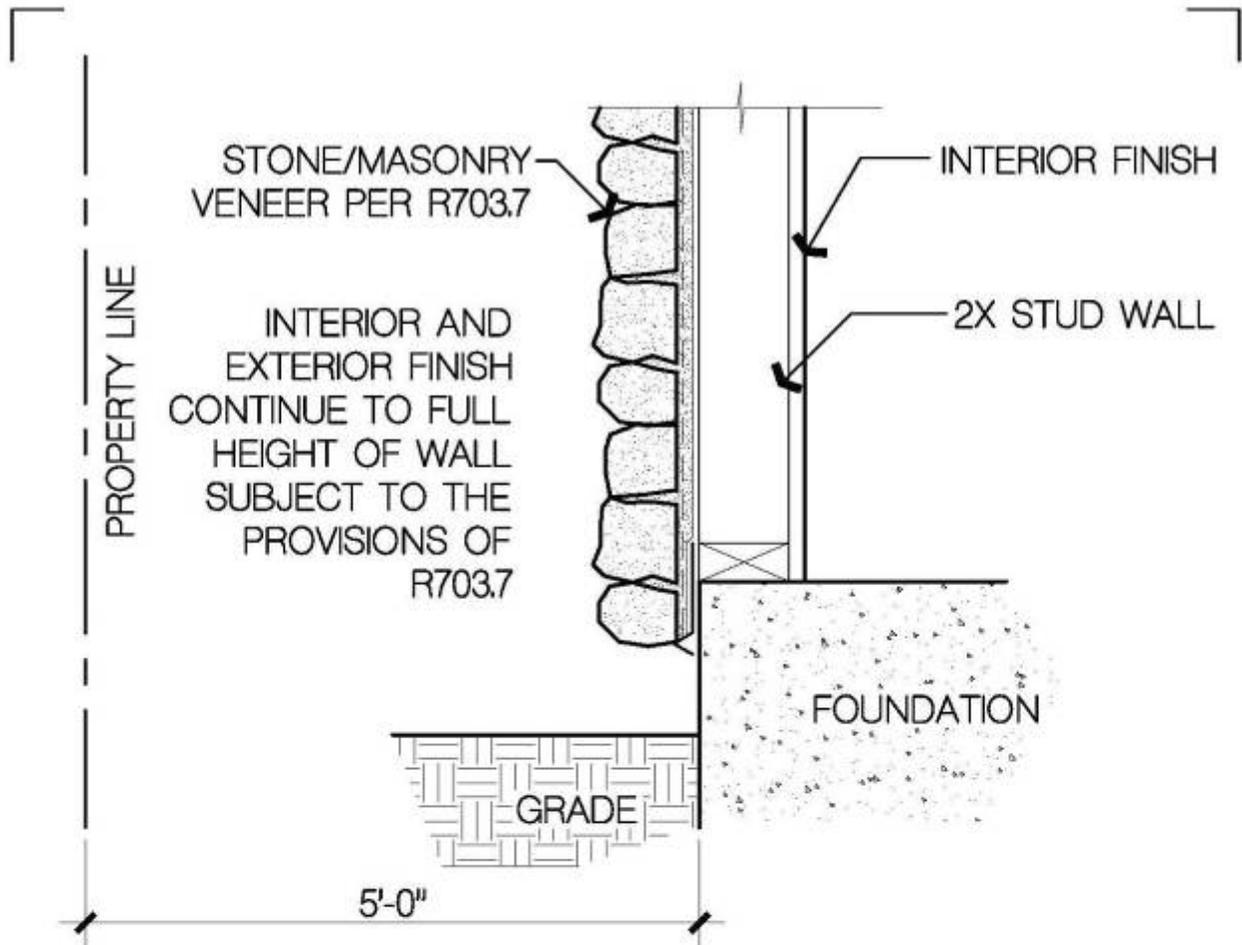
# 3-COAT PLASTER

**N.T.S.**

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**W2**

3/28/2007

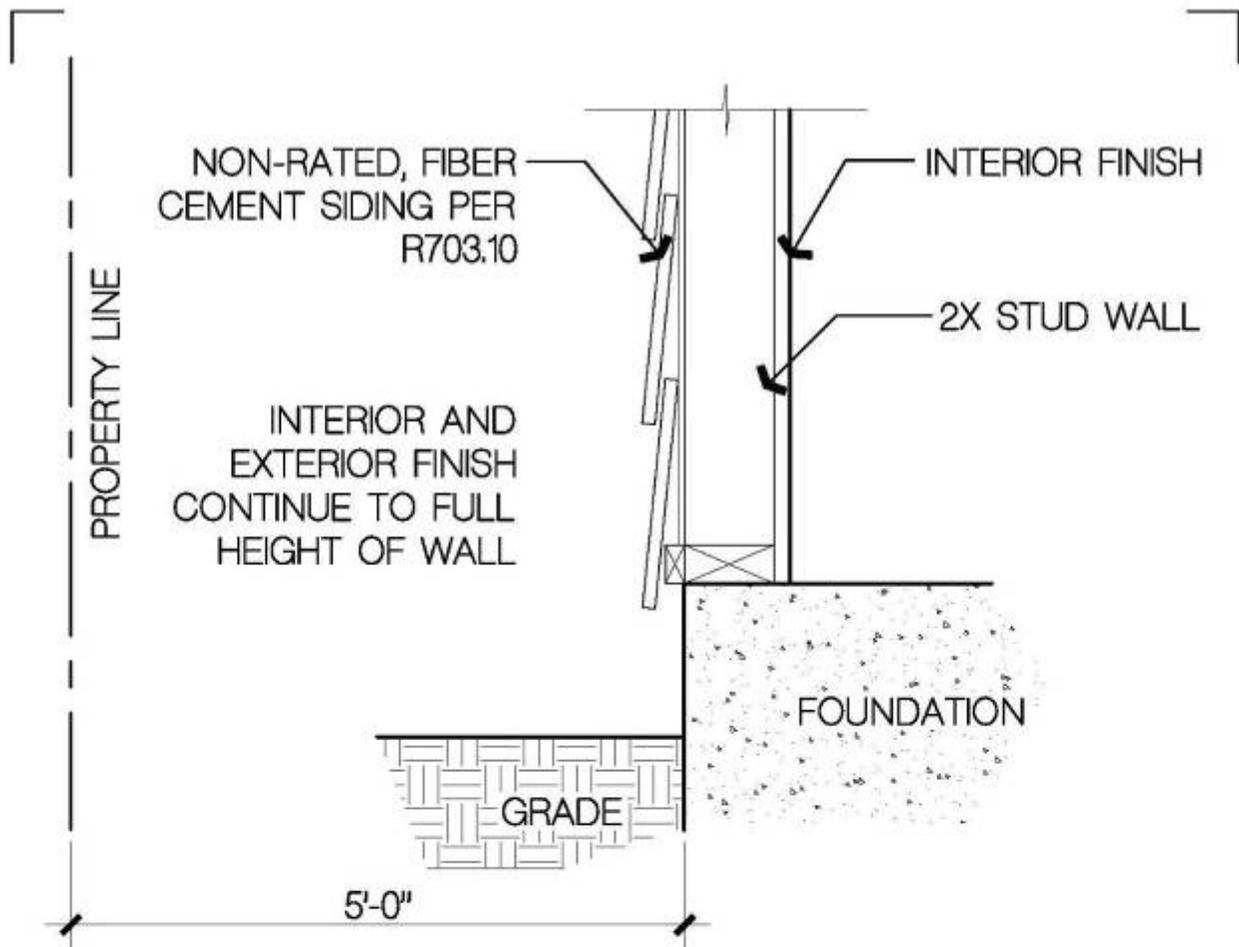


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SOUTHERN NEVADA AMENDMENT TO SECTION R302.1

**STONE/MASONRY VENEER N.T.S.**

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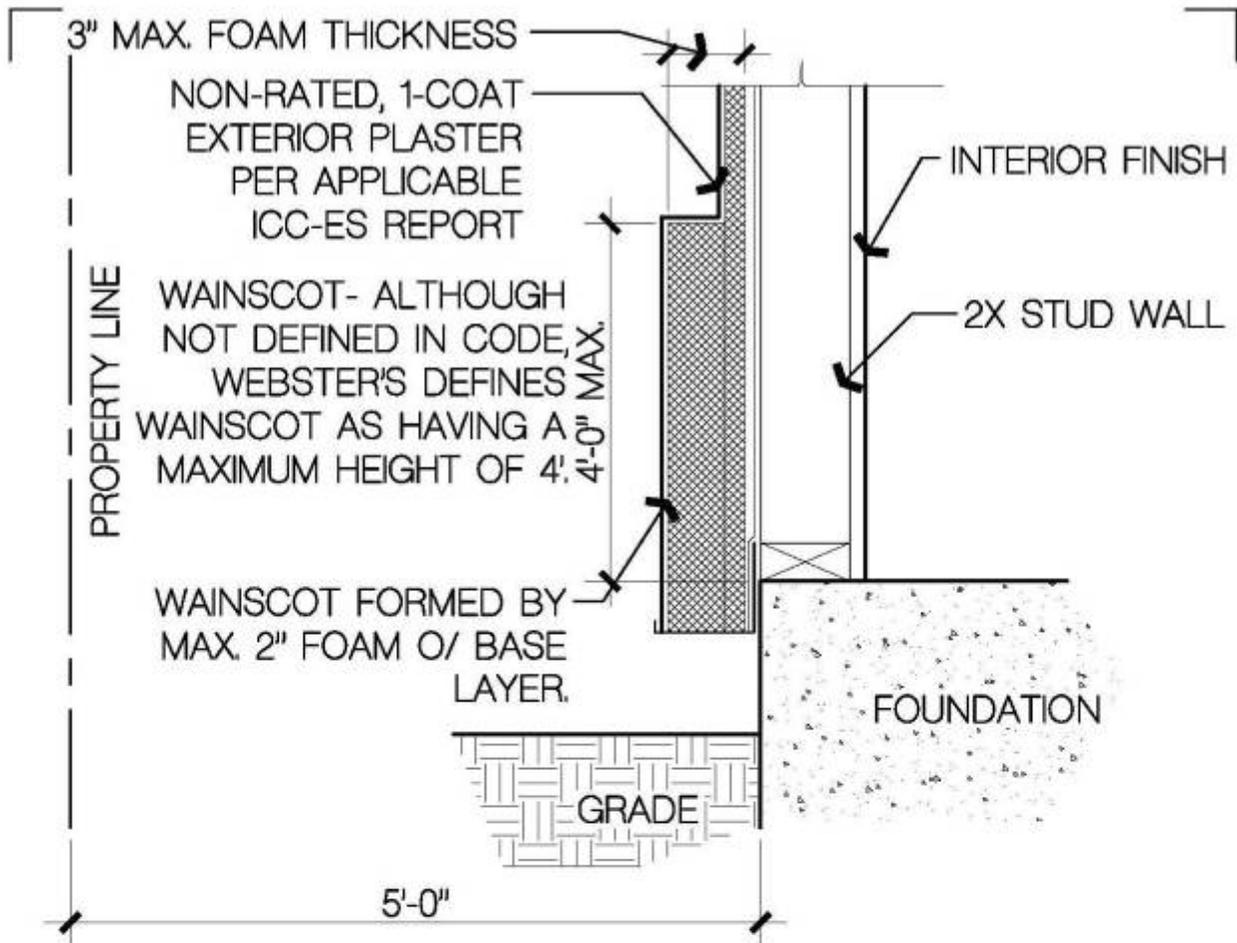
# FIBER CEMENT SIDING

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**W4**

3/28/2007



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SOUTHERN NEVADA AMENDMENT TO SECTION R302.1

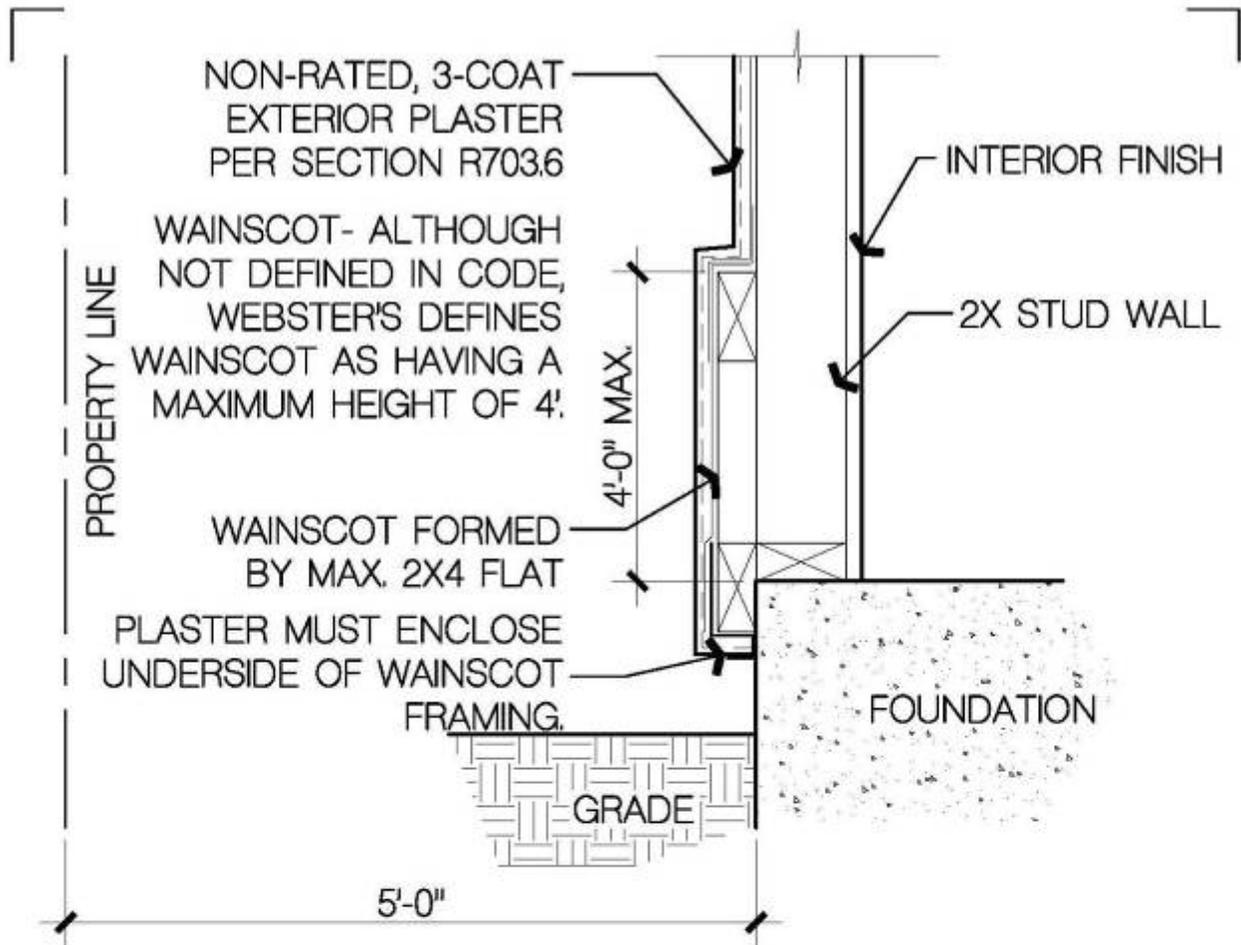
**N.T.S.**

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**W5**

3/28/2007



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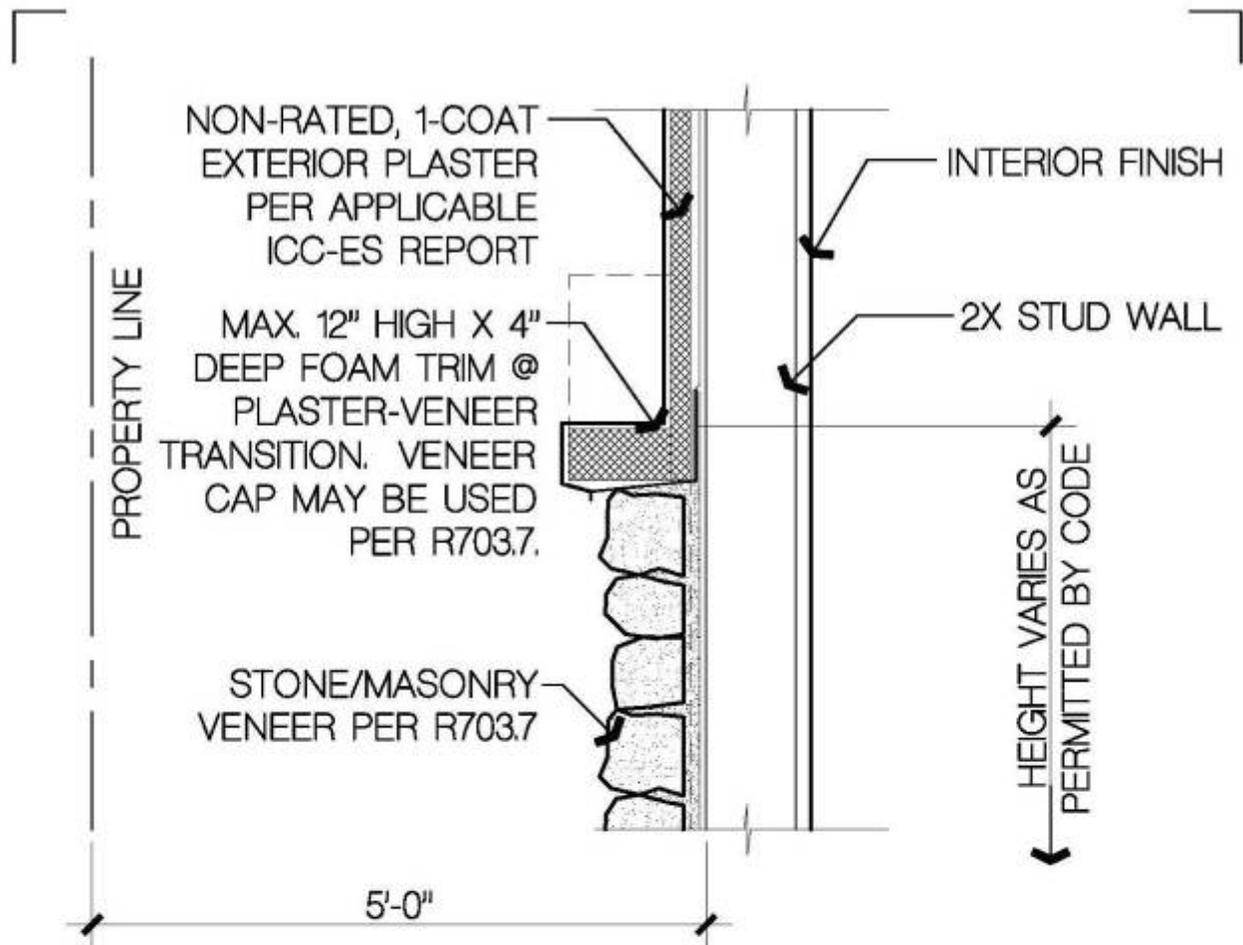
**N.T.S.**

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**W6**

3/28/2007

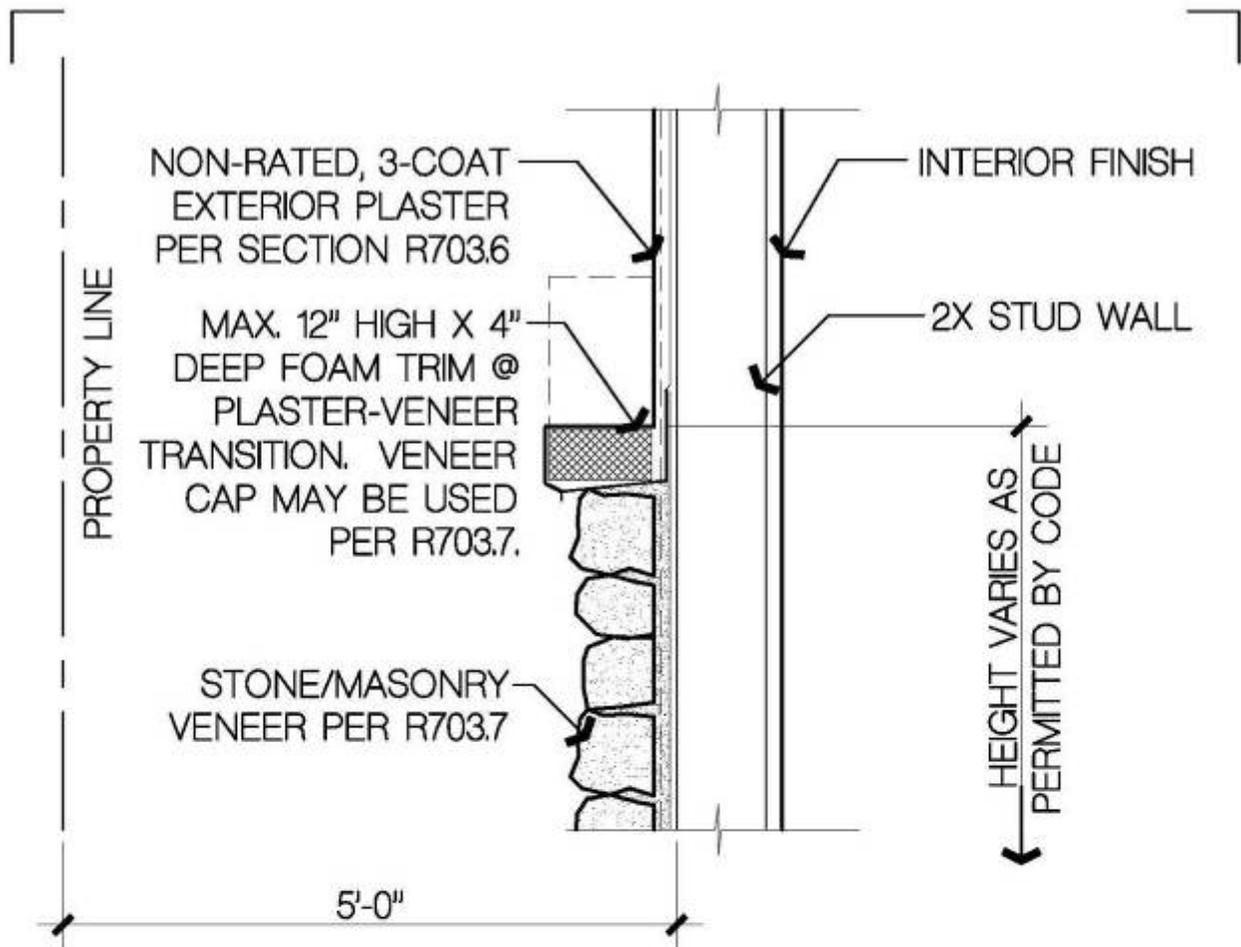


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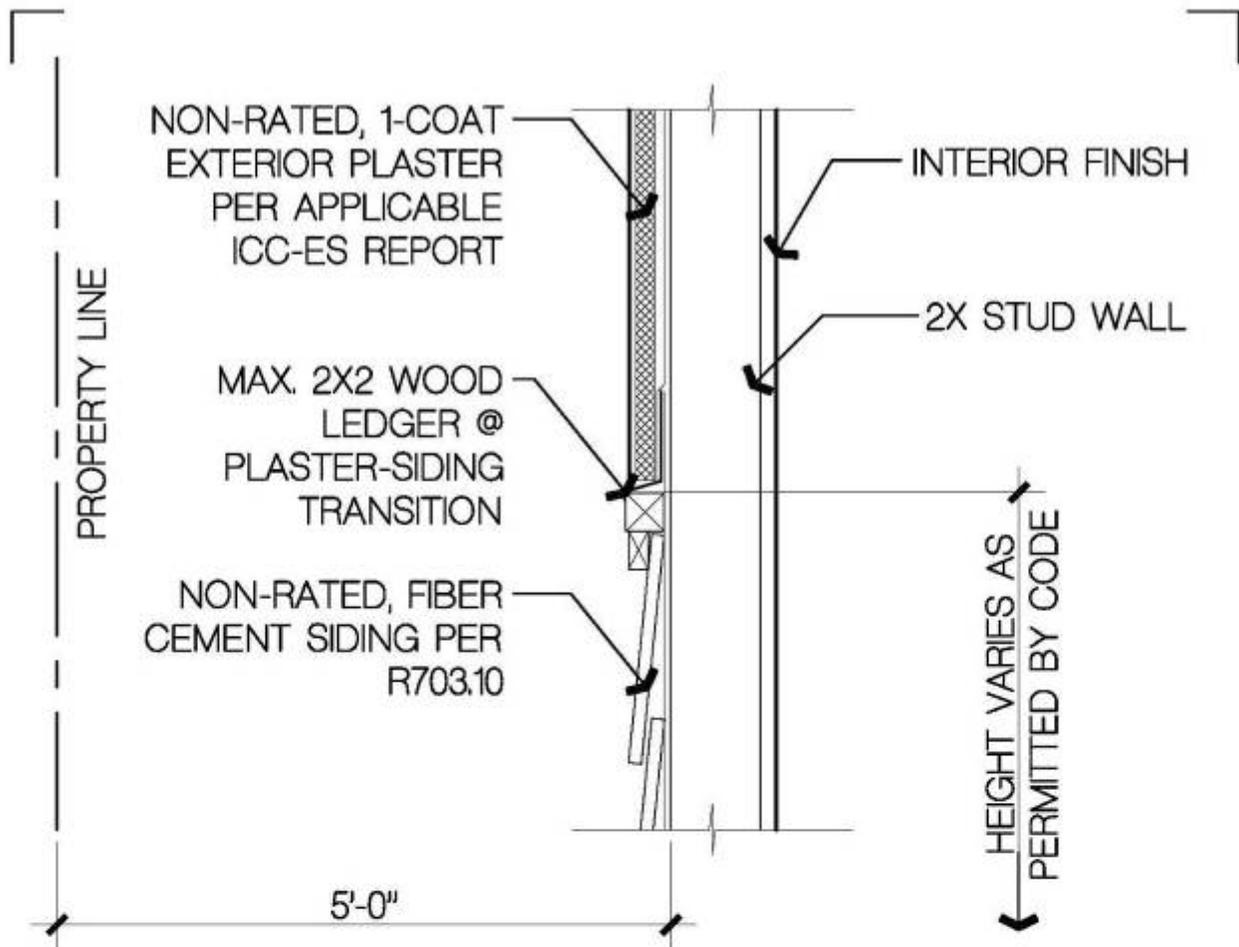


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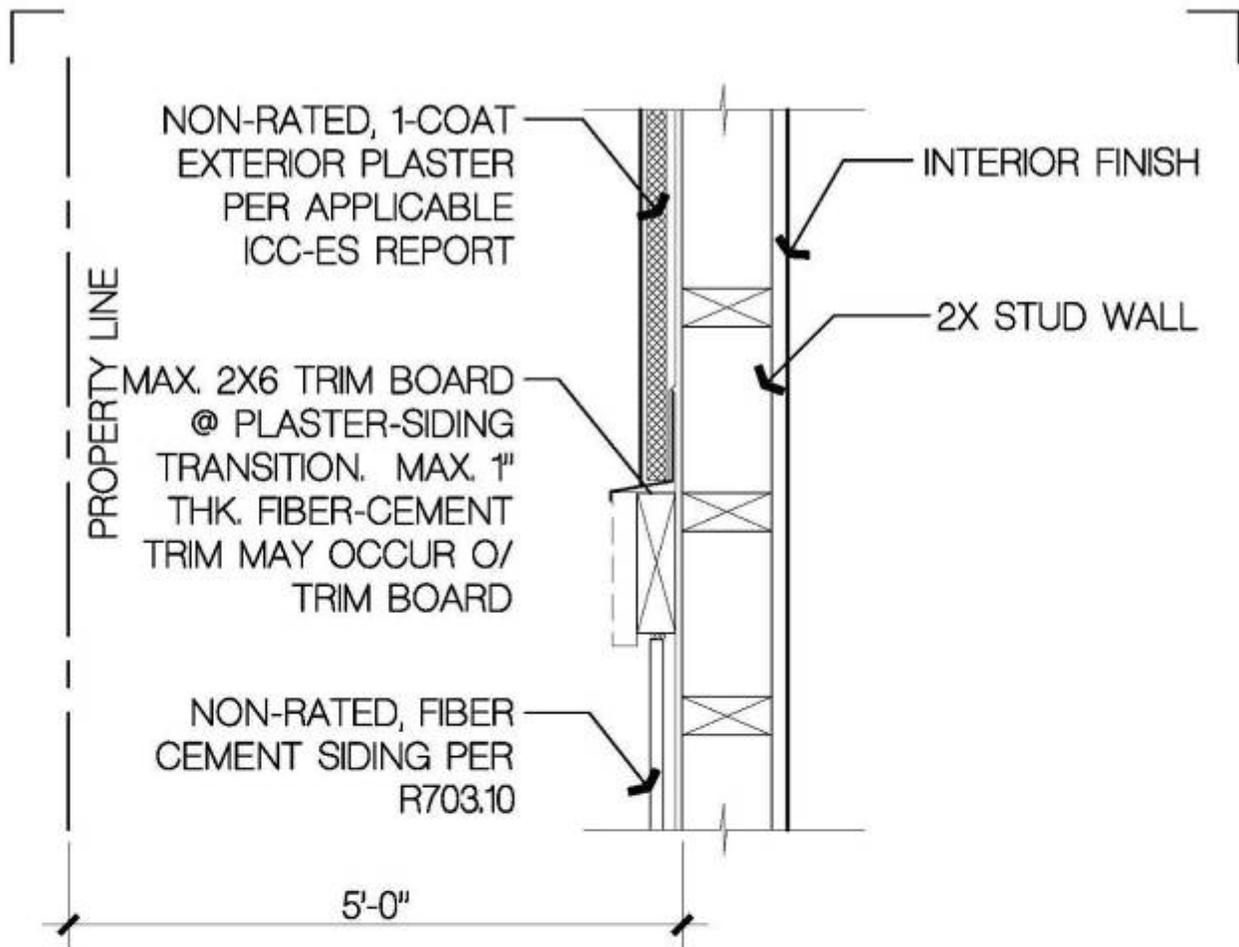
SOUTHERN NEVADA AMENDMENT TO SECTION R302.1

**WALL SECTION VIEW**

**1-COAT PLASTER/SIDING**

**N.T.S.**

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SOUTHERN NEVADA AMENDMENT TO SECTION R302.1

**WALL PLAN VIEW**

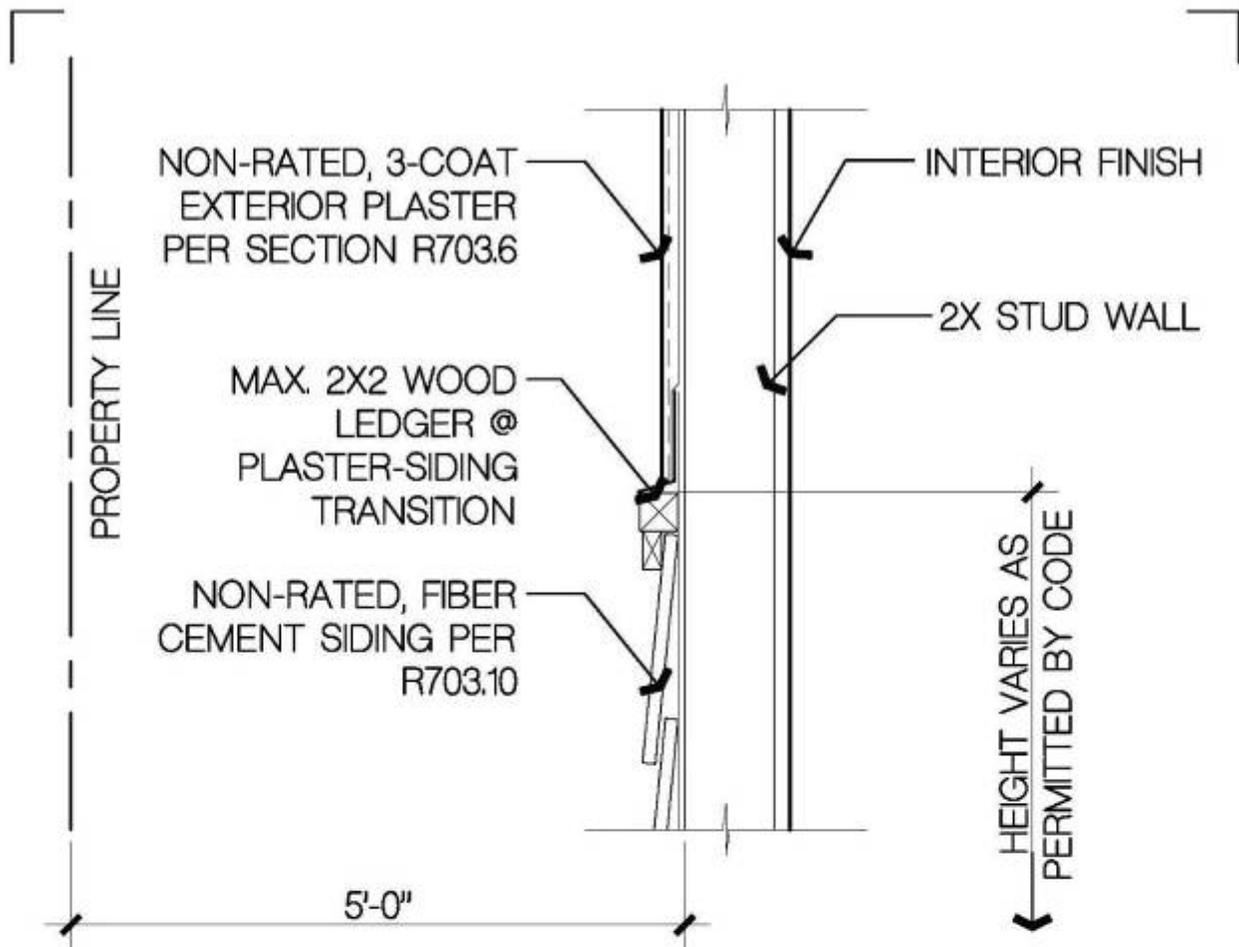
**1-COAT/SIDING TERM.**

**N.T.S.**

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**W9a**

3/28/2007



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SOUTHERN NEVADA AMENDMENT TO SECTION R302.1

**WALL SECTION VIEW**

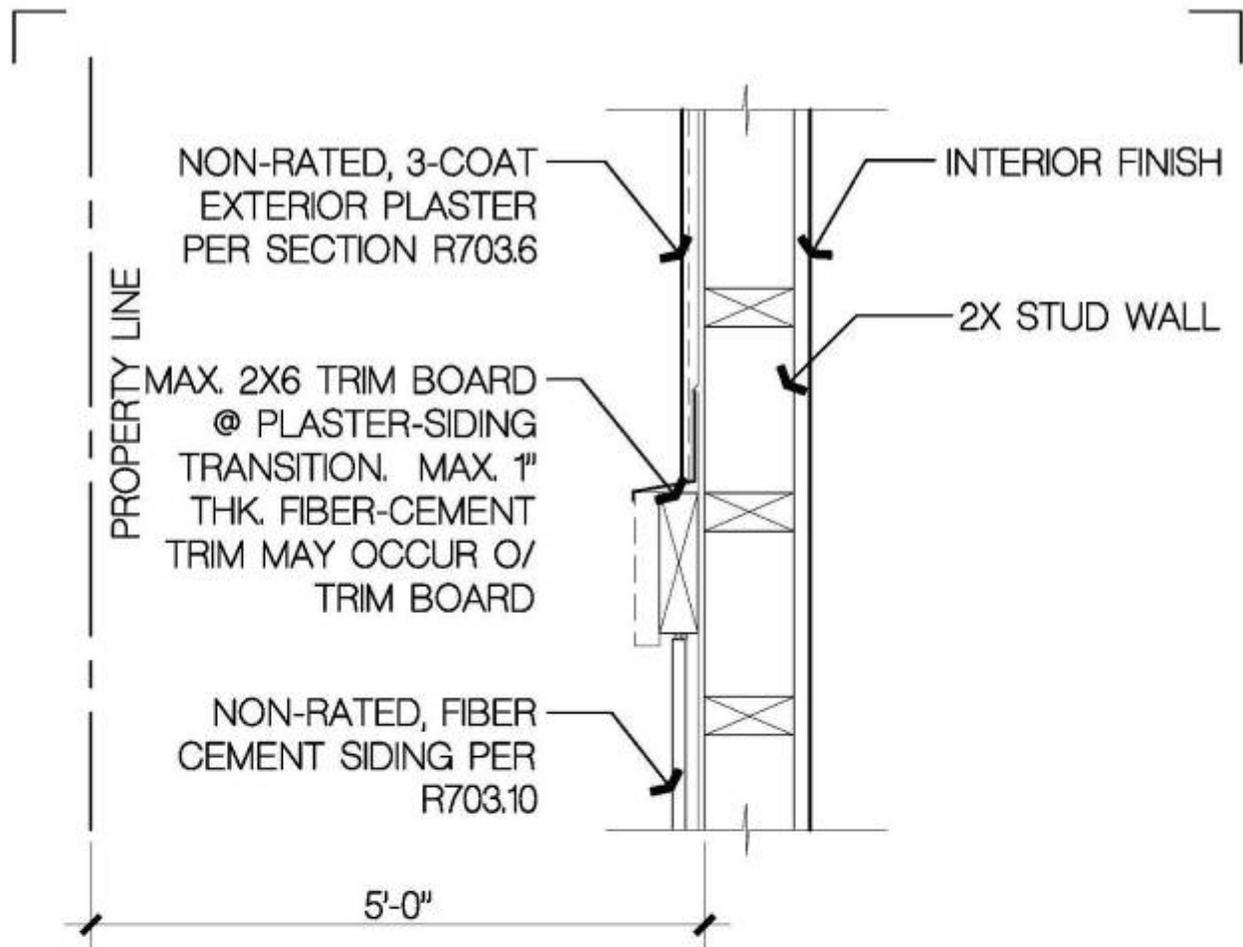
**3-COAT PLASTER/SIDING**

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**W10**

3/28/2007



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SOUTHERN NEVADA AMENDMENT TO SECTION R302.1

**WALL PLAN VIEW**

**3-COAT/SIDING TERM.**

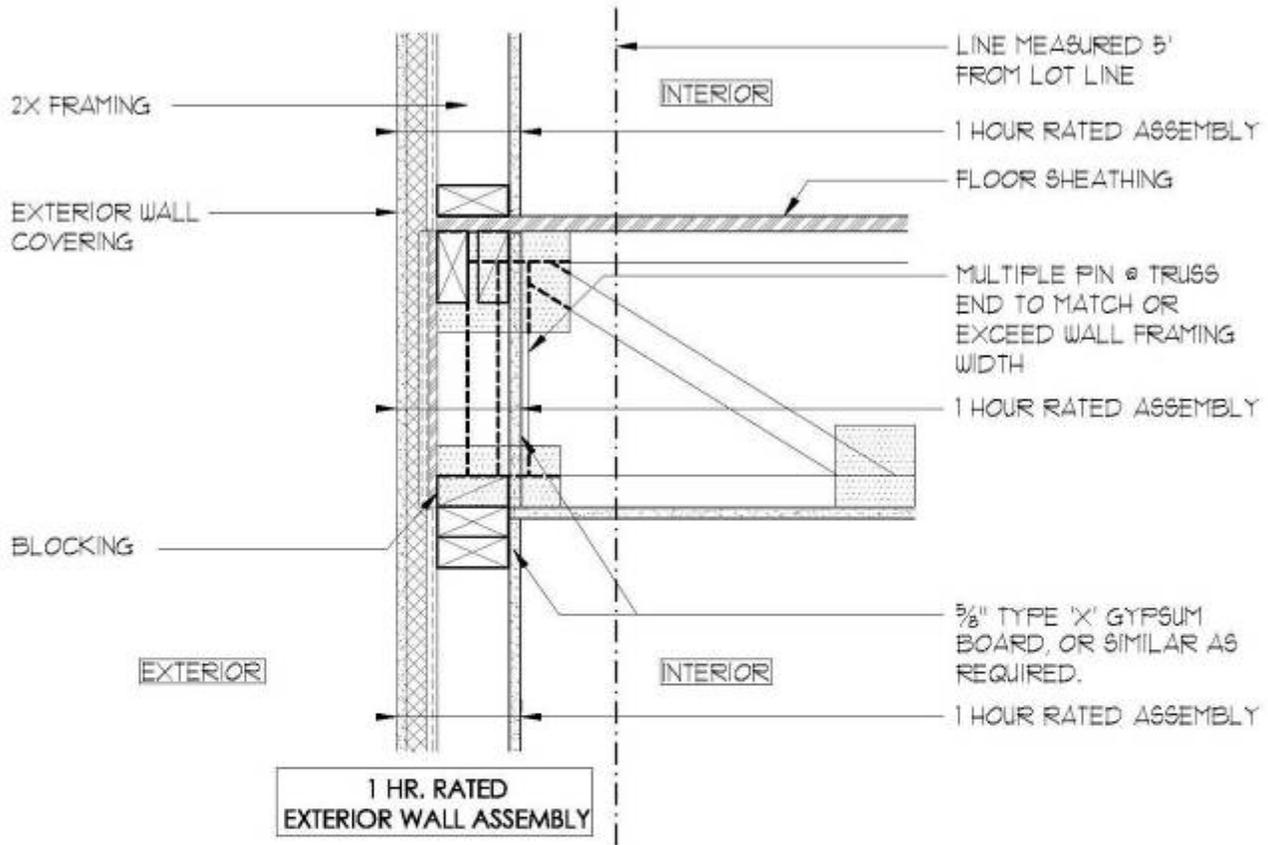
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**W10a**

3/28/2007

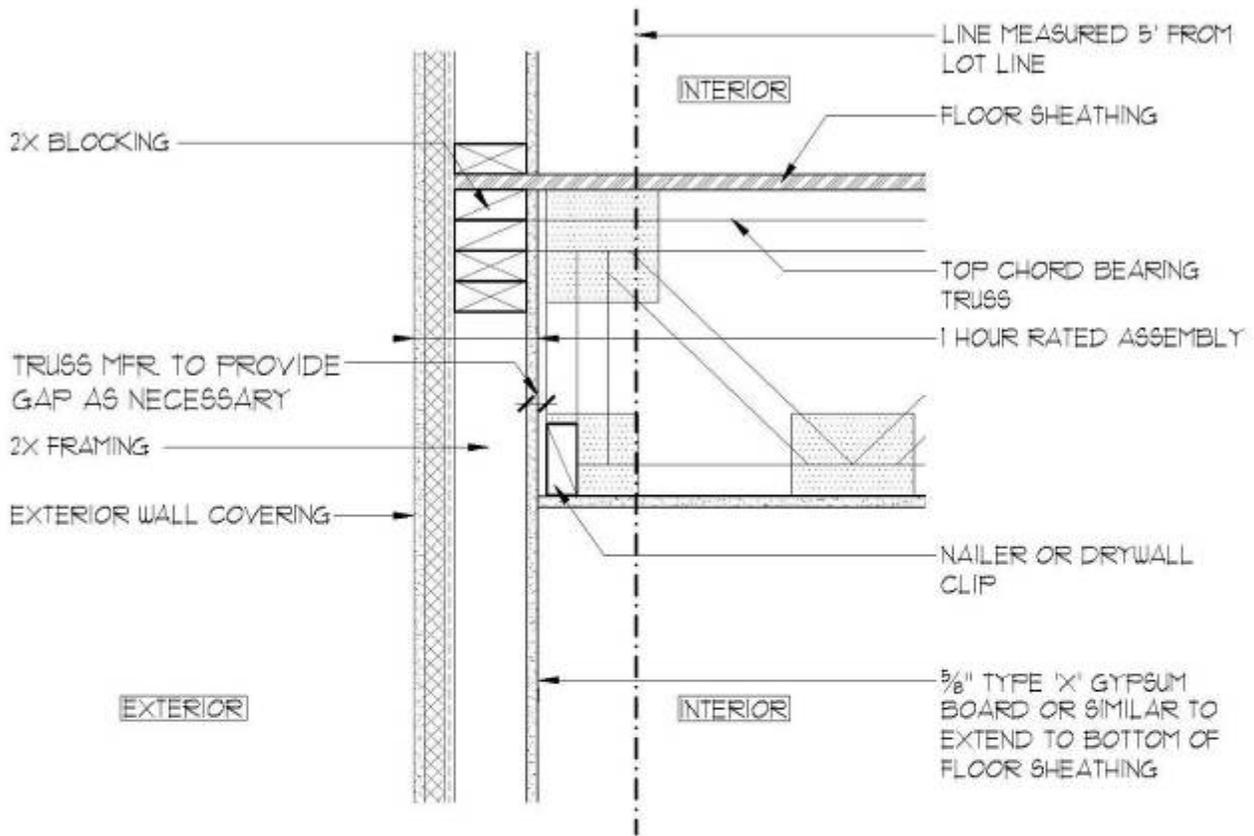
# FIRE RESISTANCE RATED WALL CONSTRUCTION



## PERPENDICULAR TRUSS BOTTOM CHORD BEARING

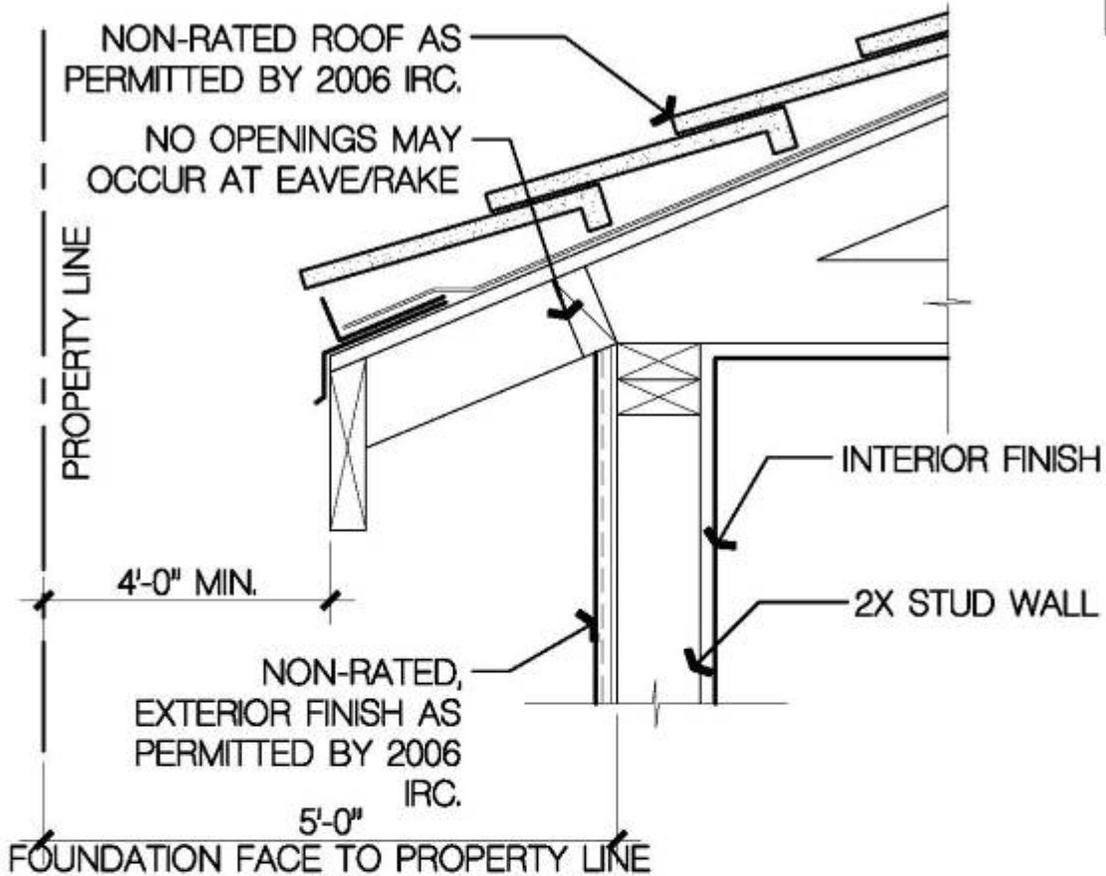
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# FIRE RESISTANCE RATED WALL CONSTRUCTION



## PERPENDICULAR TRUSS TOP CHORD BEARING

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**EXCEPTION 4:**

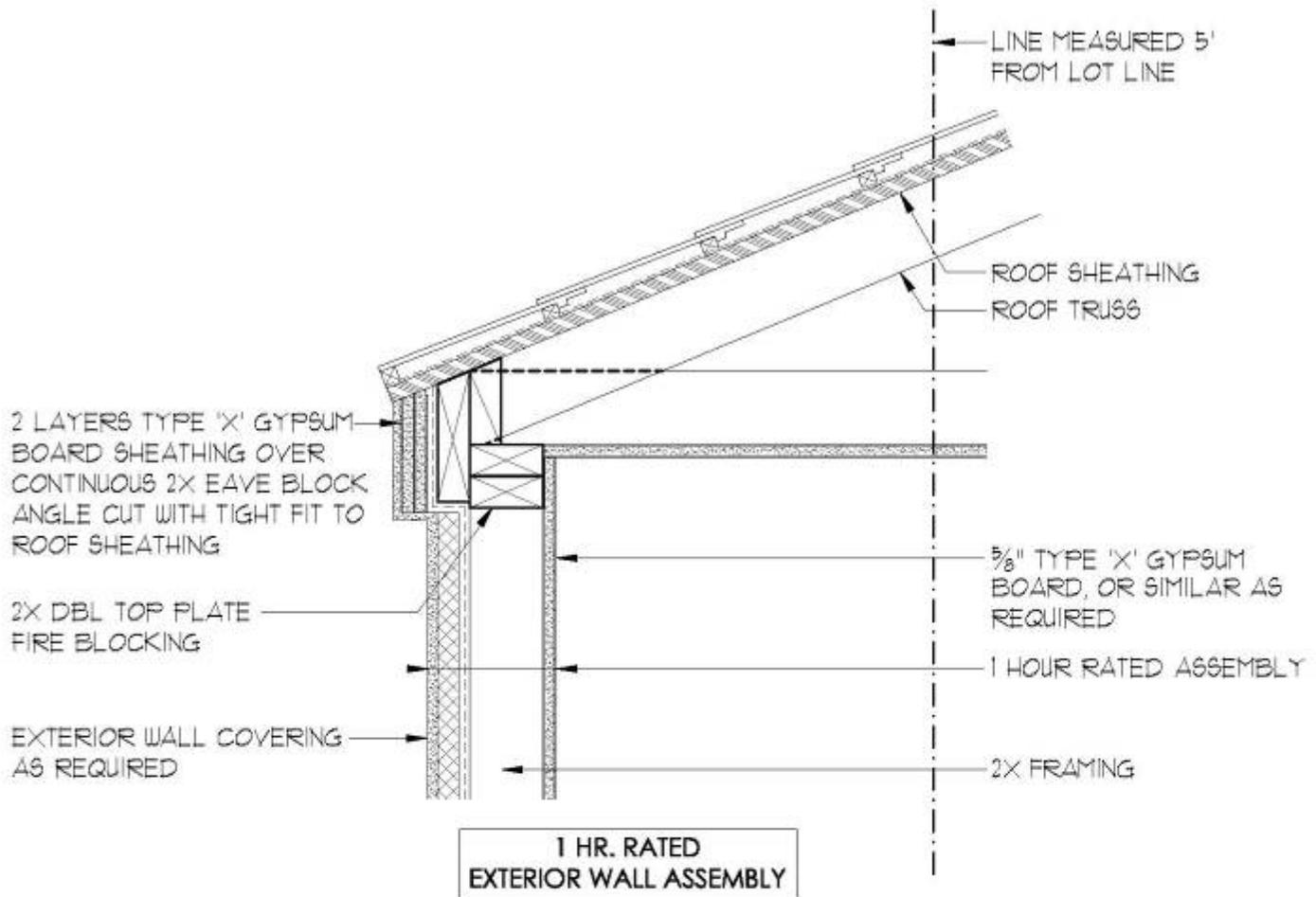
WHEN THE WALL IS AT 5 FEET OR GREATER TO THE PROPERTY LINE (AS MEASURED TO THE FOUNDATION) WITH NO ATTIC VENTS OR GABLE END VENTS ALONG THAT LINE A MAXIMUM OF 12 INCH UNPROTECTED EAVE OVERHANG IS PERMITTED.

SOUTHERN NEVADA AMENDMENT TO SECTION R302.1 AND ADDITION OF EXCEPTION 4.

# UNPROTECTED EAVE/RAKE N.T.S.

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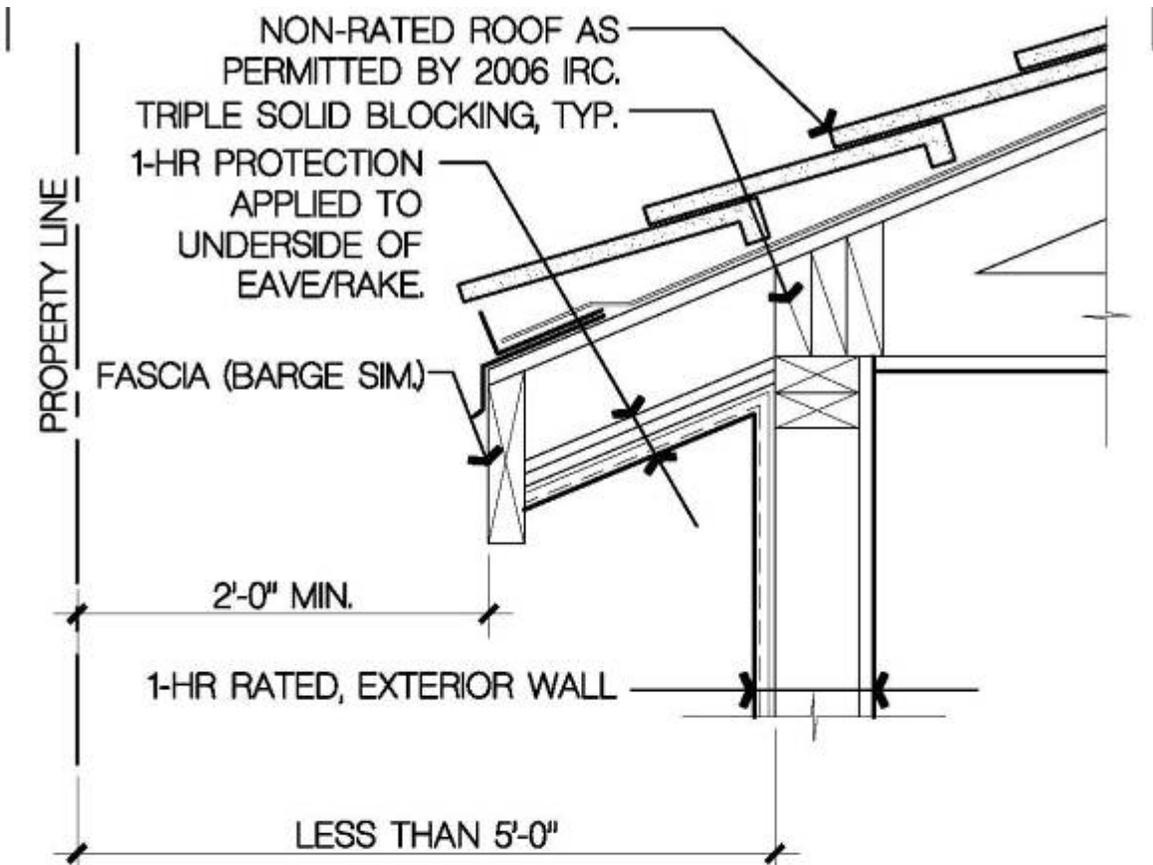
# FIRE RESISTANCE RATED WALL CONSTRUCTION



IF 3" MINIMUM SOLID MATERIAL IS PROVIDED AT THE EAVE AND PROTECTED BY 2 LAYERS 5/8" TYPE 'X' GYPSUM BOARD SHEATHING, THE INTERIOR SURFACE OF THE FIRE-RATED WALL ASSEMBLY IS NOT REQUIRED TO EXTEND TO THE ROOF SHEATHING, OTHERWISE IT SHALL EXTEND TO THE UNDERSIDE OF THE ROOF SHEATHING.

## WALL TO ROOF EAVE / RAKE

THESE DRAWINGS ARE INTENDED TO ILLUSTRATE CODE INTERPRETATIONS RELEVANT TO SECTION R302.1 AND TABLE R302.1 OF THE 2006 IRC AS AMENDED BY SNBO AND ADOPTED BY THE JURISDICTIONS COVERED IN SOUTHERN NEVADA. THESE DRAWINGS DO NOT COMMUNICATE CONSTRUCTION METHODS OR PRACTICES, NOR SHOULD ANY INFERENCE OF ANY CODE INTERPRETATION BEYOND THOSE ITEMS SPECIFIC TO R302.1 AND TABLE R302.1 OCCUR. THE USE OF THIS DRAWING IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING OFFICIAL.



SAMPLES OF EAVE/RAKE 1-HR PROTECTION:

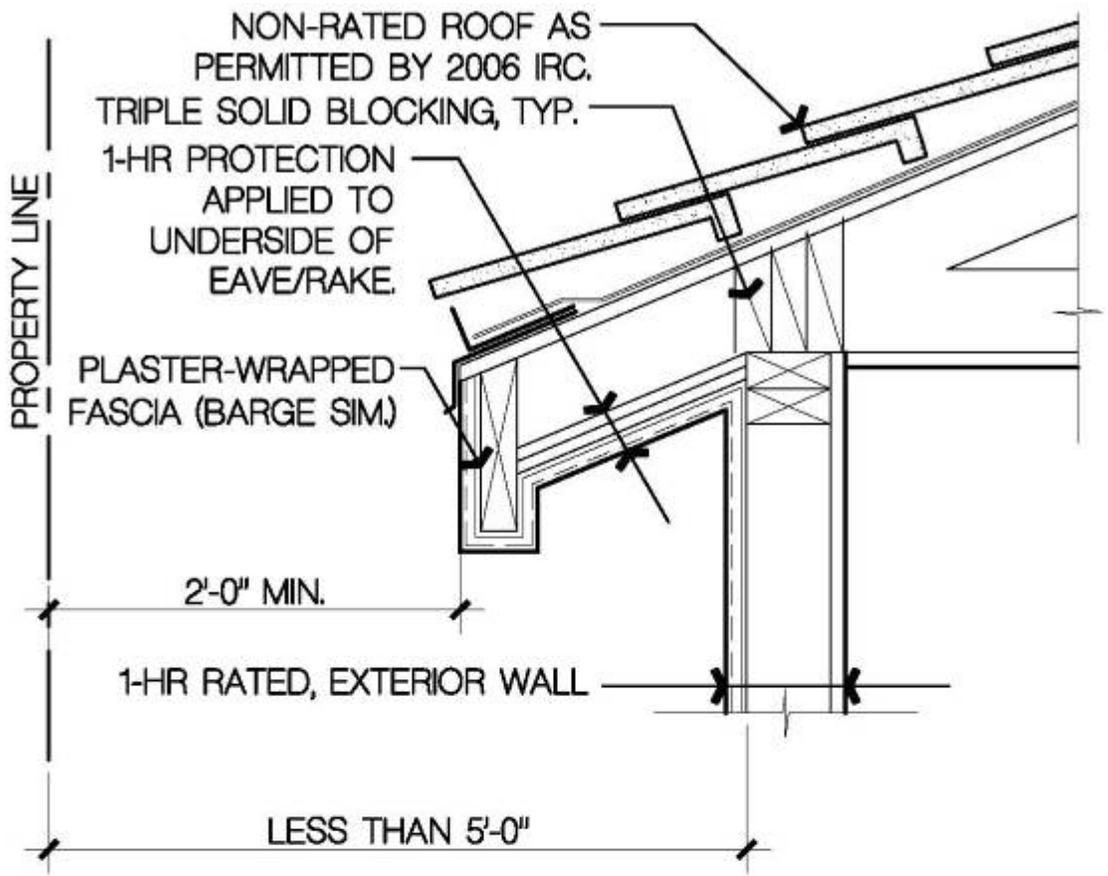
1. EXT. FINISH O/ (2) LAYERS 5/8" TYPE "X" GYP. BD. APPLIED TO UNDERSIDE OF EAVE FRAMING SPACED 24" MAX.

**METHOD 1 OF 2**

**PROTECTED EAVE/RAKE**

**N.T.S.**

THESE DRAWINGS ARE INTENDED TO ILLUSTRATE CODE INTEPRETATIONS RELEVANT TO SECTION R302.1 AND TABLE R302.1 OF THE 2006 IRC AS AMENDED BY SNBO AND ADOPTED BY THE JURISDICTIONS COVERED IN SOUTHERN NEVADA. THESE DRAWINGS DO NOT COMMUNICATE CONSTRUCTION METHODS OR PRACTICES, NOR SHOULD ANY INFERENCE OF ANY CODE INTERPRETATION BEYOND THOSE ITEMS SPECIFIC TO R302.1 AND TABLE R302.1 OCCUR. THE USE OF THIS DRAWING IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING OFFICIAL.



SAMPLES OF EAVE/RAKE 1-HR PROTECTION:

1. EXT. FINISH O/ (2) LAYERS 5/8" TYPE "X" GYP. BD. APPLIED TO UNDERSIDE OF EAVE FRAMING SPACED 24" MAX.

**METHOD 2 OF 2**

**PROTECTED EAVE/RAKE**

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# FIRE RESISTANCE RATED WALL CONSTRUCTION

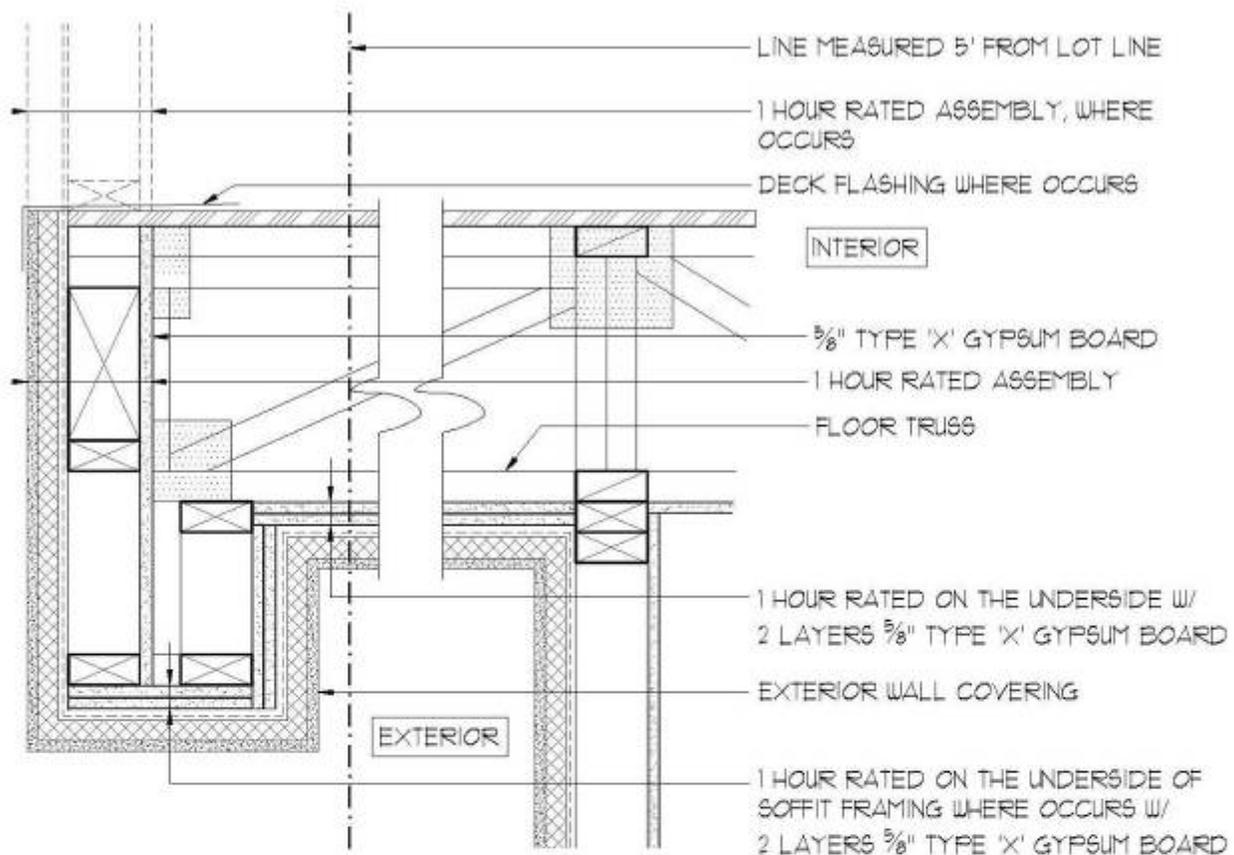


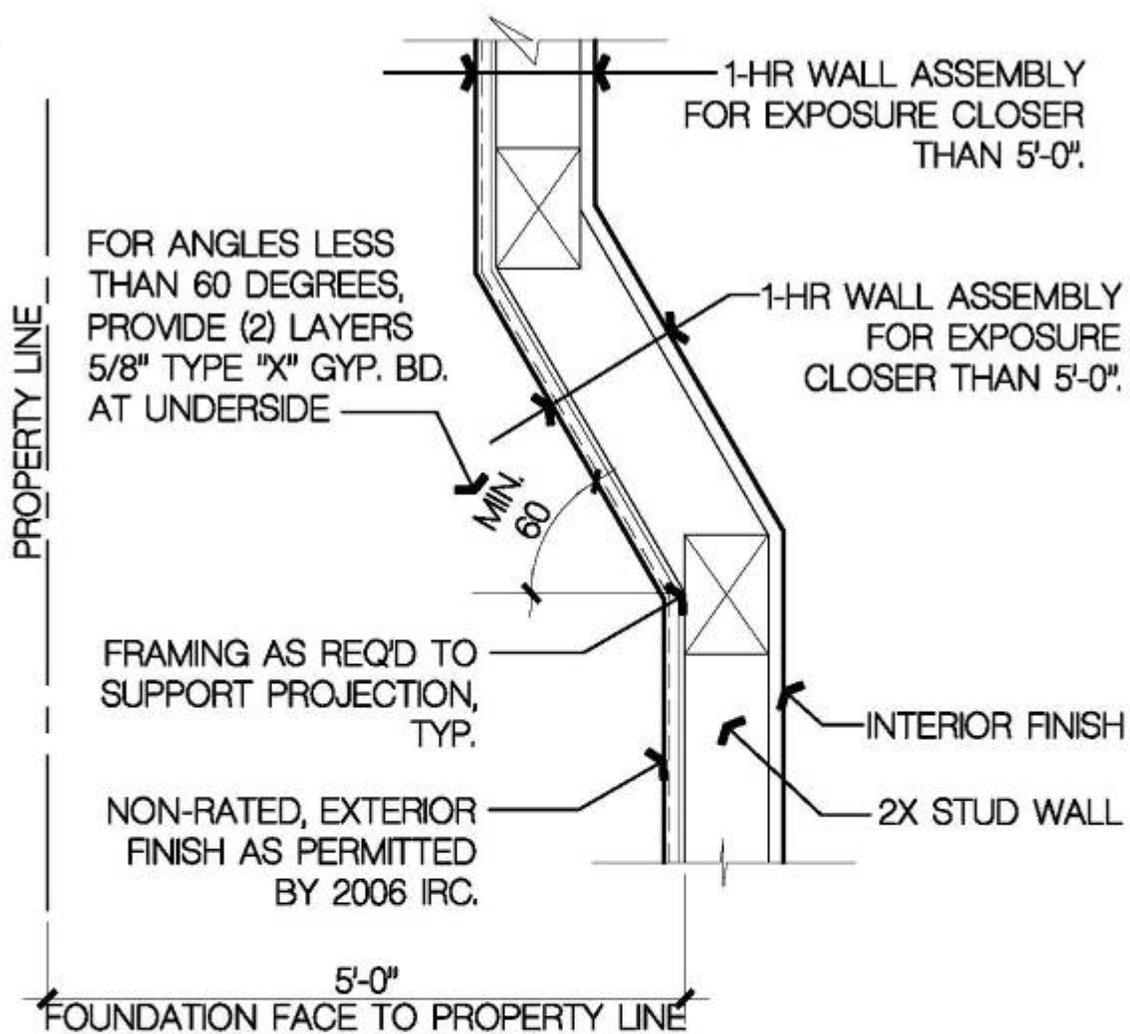
TABLE R302.1 - THE MINIMUM FIRE RESISTANCE RATING OF A PROJECTION SHALL BE 1-HOUR ON THE UNDERSIDE WHEN THE EXTERIOR WALL IS CLOSER THAN 5'-0" TO THE PROPERTY LINE.

OVERHANGING FLOORS AND DECKS SHALL BE CONSIDERED PROJECTIONS WHEN THE VOID IN THE WALL AREA BELOW IS NOT FACTORED IN THE ALLOWABLE 25% CALCULATION FOR OPENINGS WHEN PERMITTED BY TABLE R302.1.

NOTE: WHEN THE VOID IN THE WALL AREA BELOW THE OVERHANGING FLOOR IS FACTORED IN THE ALLOWABLE 25% CALCULATION, NO RATING IS REQUIRED ON THE UNDERSIDE OF THE OVERHANGING FLOOR OR SOFFIT FRAMING.

## FLOOR/DECK AS PROJECTION

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THE PROJECTION CONDITION DEPICTED HERE APPLIES TO MEDIA NICHES, BAY WINDOWS, AND OTHER SIMILAR PROJECTIONS THAT DO NOT CONTAIN OCCUPIABLE FLOOR SPACE. FOR PROJECTIONS OR CANTILEVERS SUPPORTING FLOOR SPACE ABOVE, SEE 1-HR PROJECTION DETAIL P4.

## MEDIA CANTILEVER

N.T.S.

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P5

3/28/2007

# FIRE RESISTANCE RATED WALL CONSTRUCTION

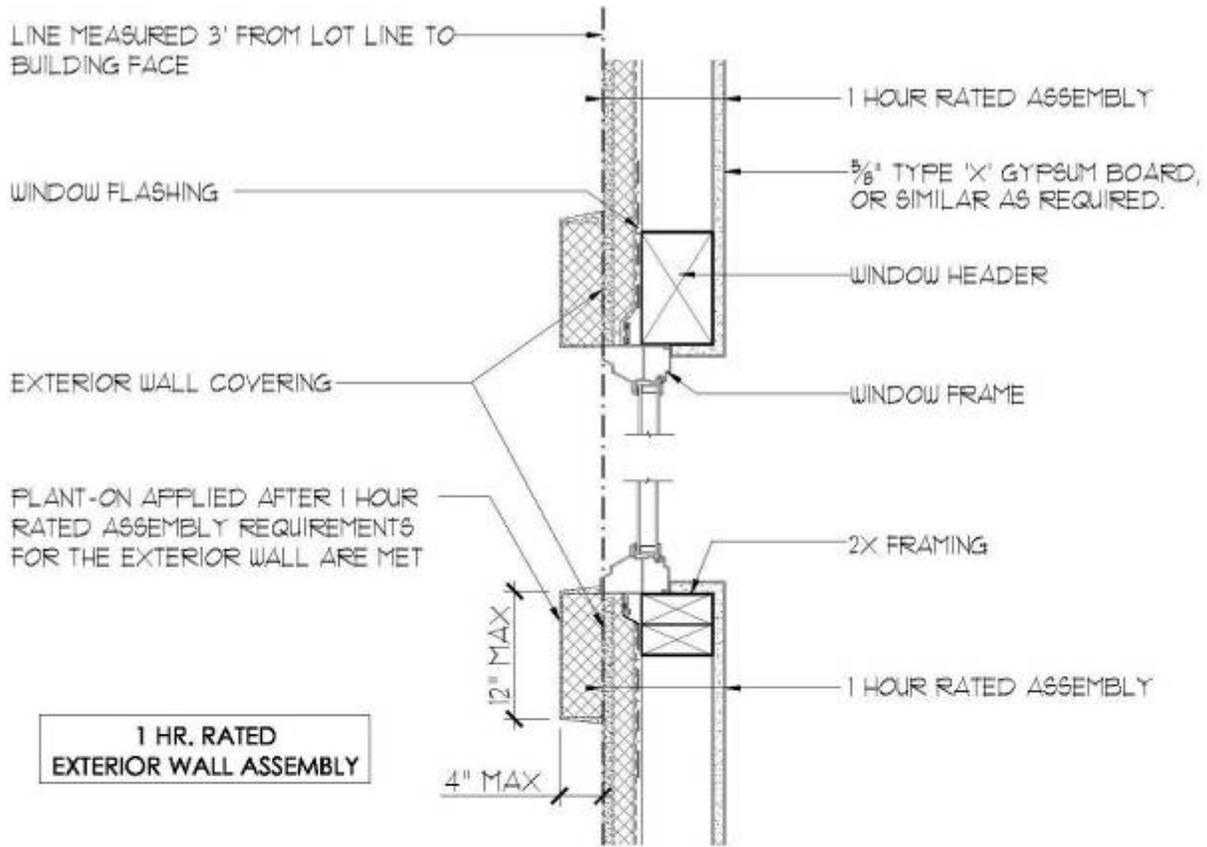


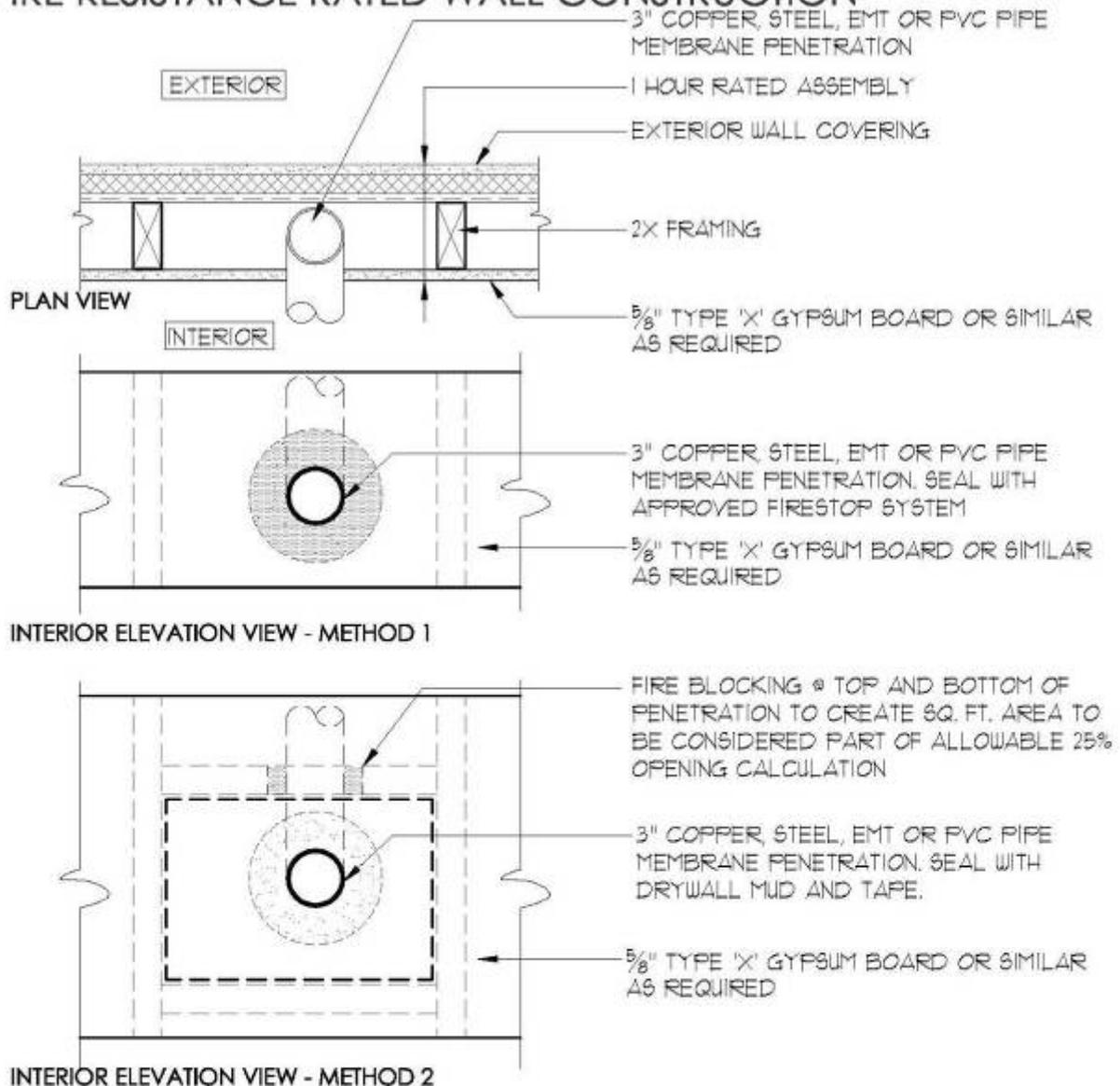
TABLE R302.1 - WALLS REQUIRED TO BE FIRE RESISTANCE RATED AND MEASURED A MINIMUM 3'-0" TO BUILDING FACE FROM PROPERTY LINE ARE PERMITTED 25% MAXIMUM OF WALL AREA AS UNPROTECTED OPENING.

UNPROTECTED PLANT-ONS SURROUNDING THE OPENING SHALL BE ALLOWED TO EXTEND BEYOND THE EXTERIOR WALL FACE AS LONG AS THEY EXTEND NO MORE THAN 4" AND ARE APPLIED AFTER THE FIRE-RESISTANCE-RATED ASSEMBLY REQUIREMENTS OF THE WALL ARE MET.

## WINDOW PLANT-ON

THESE DRAWINGS ARE INTENDED TO ILLUSTRATE CODE INTERPRETATIONS RELEVANT TO SECTION R302.1 AND TABLE R302.1 OF THE 2006 IRC AS AMENDED BY SNBO AND ADOPTED BY THE JURISDICTIONS COVERED IN SOUTHERN NEVADA. THESE DRAWINGS DO NOT COMMUNICATE CONSTRUCTION METHODS OR PRACTICES, NOR SHOULD ANY INFERENCE OF ANY CODE INTERPRETATION BEYOND THOSE ITEMS SPECIFIC TO R302.1 AND TABLE R302.1 OCCUR. THE USE OF THIS DRAWING IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING OFFICIAL.

# FIRE RESISTANCE RATED WALL CONSTRUCTION



"R317.3.2 MEMBRANE PENETRATIONS. MEMBRANE PENETRATIONS SHALL COMPLY WITH SECTION R317.3.1. R317.3.1.1 FIRE-RESISTANCE-RATED ASSEMBLY. PENETRATIONS SHALL BE INSTALLED AS TESTED IN THE APPROVED FIRE-RESISTANCE-RATED ASSEMBLY."

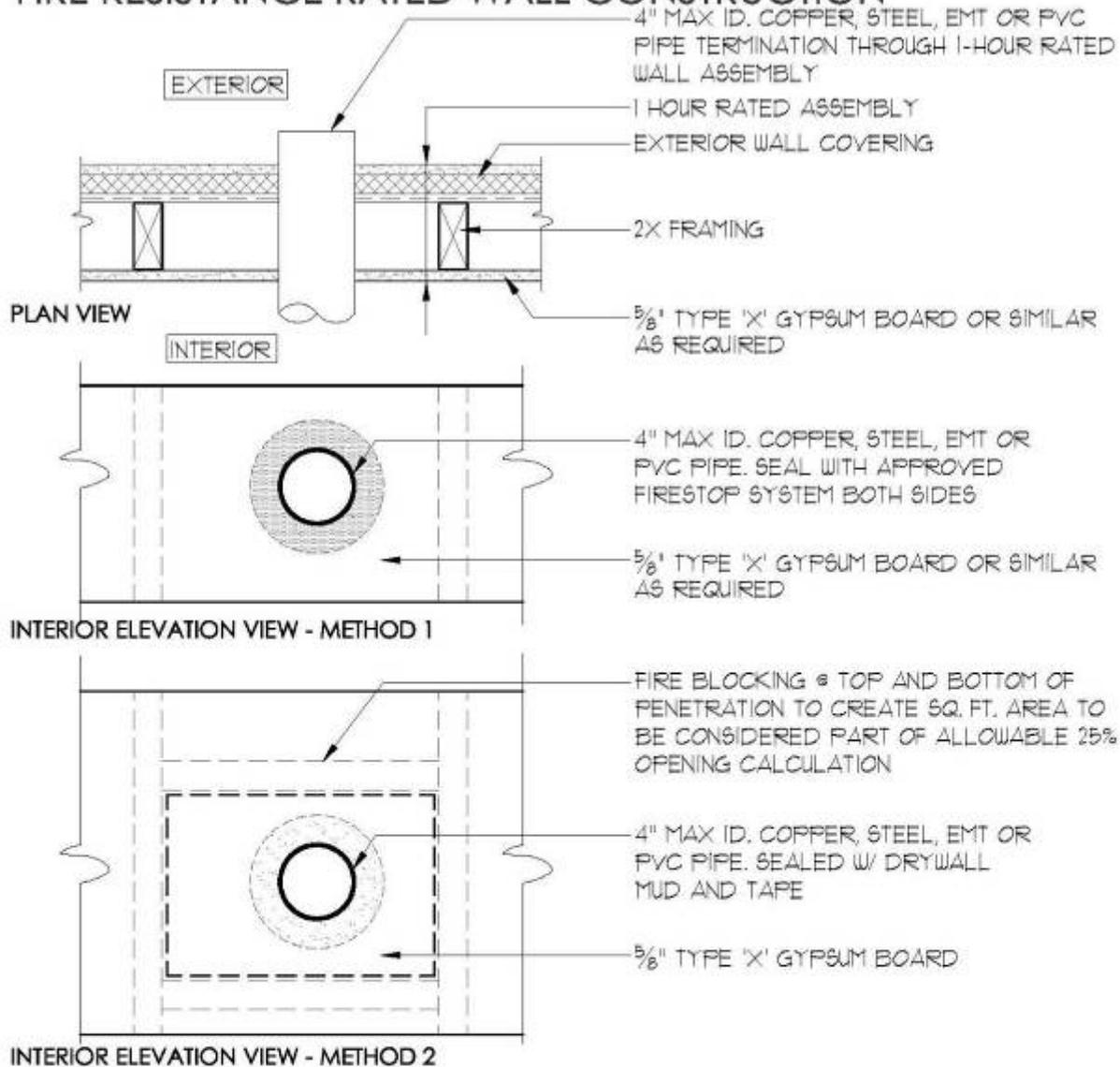
**METHOD 1:**  
PENETRATION SHALL BE SEALED WITH AN APPROVED FIRESTOP SYSTEM.

**METHOD 2:**  
THE AREA SURROUNDING PIPES LOCATED WITHIN THE WALL CAVITY AND PENETRATING ONLY ONE SIDE OF THE APPROVED FIRE-RESISTANCE-RATED ASSEMBLY MAY BE CONSIDERED PART OF ALLOWABLE 25% CALCULATION WHEN AN APPROVED FIREBLOCKING IS PROVIDED AT TOP AND BOTTOM.

## MEMBRANE PENETRATIONS

THESE DRAWINGS ARE INTENDED TO ILLUSTRATE CODE INTERPRETATIONS RELEVANT TO SECTION R302.1 AND TABLE R302.1 OF THE 2006 IRC AS AMENDED BY SNBO AND ADOPTED BY THE JURISDICTIONS COVERED IN SOUTHERN NEVADA. THESE DRAWINGS DO NOT COMMUNICATE CONSTRUCTION METHODS OR PRACTICES, NOR SHOULD ANY INFERENCE OF ANY CODE INTERPRETATION BEYOND THOSE ITEMS SPECIFIC TO R302.1 AND TABLE R302.1 OCCUR. THE USE OF THIS DRAWING IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING OFFICIAL.

# FIRE RESISTANCE RATED WALL CONSTRUCTION



## R317.3.1 THROUGH PENETRATIONS.

"THROUGH PENETRATIONS OF FIRE-RESISTANCE-RATED WALL OR FLOOR ASSEMBLIES SHALL COMPLY WITH SECTION R317.3.1.1 OR R317.3.1.2."

R317.3.1.1 FIRE-RESISTANCE-RATED ASSEMBLY. PENETRATIONS SHALL BE INSTALLED AS TESTED IN THE APPROVED FIRE-RESISTANCE-RATED ASSEMBLY.

### METHOD 1:

PENETRATION SHALL BE SEALED WITH AN APPROVED FIRESTOP SYSTEM BOTH SIDES.

### METHOD 2:

THE AREA SURROUNDING PIPES PENETRATING BOTH SIDES OF THE APPROVED FIRE-RESISTANCE-RATED ASSEMBLY MAY BE CONSIDERED PART OF ALLOWABLE 25% CALCULATION WHEN AN APPROVED FIREBLOCKING IS PROVIDED AT TOP AND BOTTOM.

# THROUGH PENETRATIONS

THESE DRAWINGS ARE INTENDED TO ILLUSTRATE CODE INTERPRETATIONS RELEVANT TO SECTION R302.1 AND TABLE R302.1 OF THE 2006 IRC AS AMENDED BY SNBO AND ADOPTED BY THE JURISDICTIONS COVERED IN SOUTHERN NEVADA. THESE DRAWINGS DO NOT COMMUNICATE CONSTRUCTION METHODS OR PRACTICES, NOR SHOULD ANY INFERENCE OF ANY CODE INTERPRETATION BEYOND THOSE ITEMS SPECIFIC TO R302.1 AND TABLE R302.1 OCCUR. THE USE OF THIS DRAWING IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING OFFICIAL.

# FIRE RESISTANCE RATED WALL CONSTRUCTION

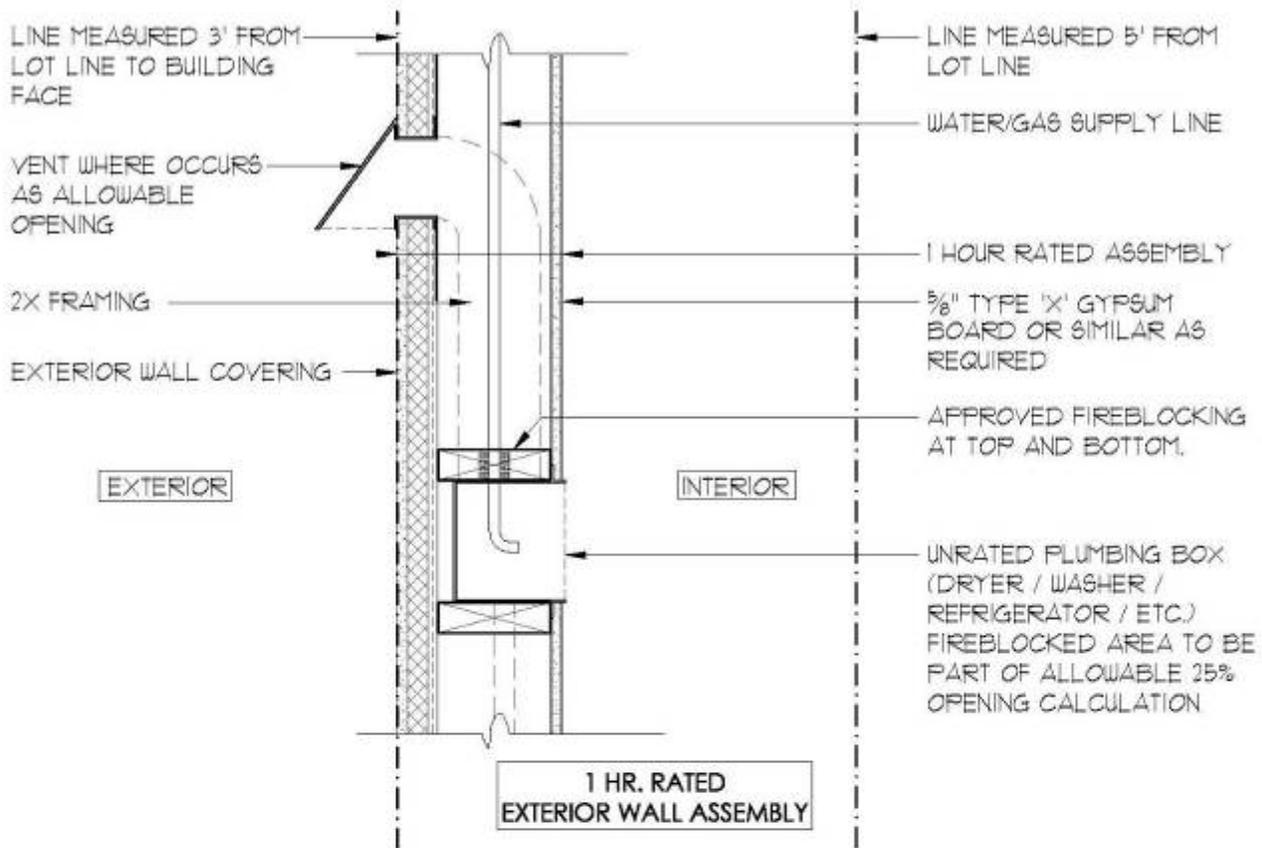


TABLE R302.1 - WALLS REQUIRED TO BE FIRE RESISTANCE RATED AND MEASURED A MINIMUM 3'-0" TO BUILDING FACE FROM PROPERTY LINE ARE PERMITTED 25% MAXIMUM OF WALL AREA AS UNPROTECTED OPENING.

RECESSED PLUMBING BOXES SUCH AS THOSE USED FOR DRYERS, WASHERS, REFRIGERATORS, OR OTHER SIMILAR APPLIANCES LOCATED IN THE WALL CAVITY MAY BE CONSIDERED PART OF ALLOWABLE 25% CALCULATION WHEN AN APPROVED FIRE BLOCKING IS PROVIDED AT TOP AND BOTTOM.

DRYER VENTS MAY BE CONSIDERED PART OF ALLOWABLE 25% CALCULATION WITHOUT BLOCKING.

## PLUMBING BOX AS OPENING

THESE DRAWINGS ARE INTENDED TO ILLUSTRATE CODE INTERPRETATIONS RELEVANT TO SECTION R302.1 AND TABLE R302.1 OF THE 2006 IRC AS AMENDED BY SNBO AND ADOPTED BY THE JURISDICTIONS COVERED IN SOUTHERN NEVADA. THESE DRAWINGS DO NOT COMMUNICATE CONSTRUCTION METHODS OR PRACTICES, NOR SHOULD ANY INFERENCE OF ANY CODE INTERPRETATION BEYOND THOSE ITEMS SPECIFIC TO R302.1 AND TABLE R302.1 OCCUR. THE USE OF THIS DRAWING IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING OFFICIAL.

# FIRE RESISTANCE RATED WALL CONSTRUCTION

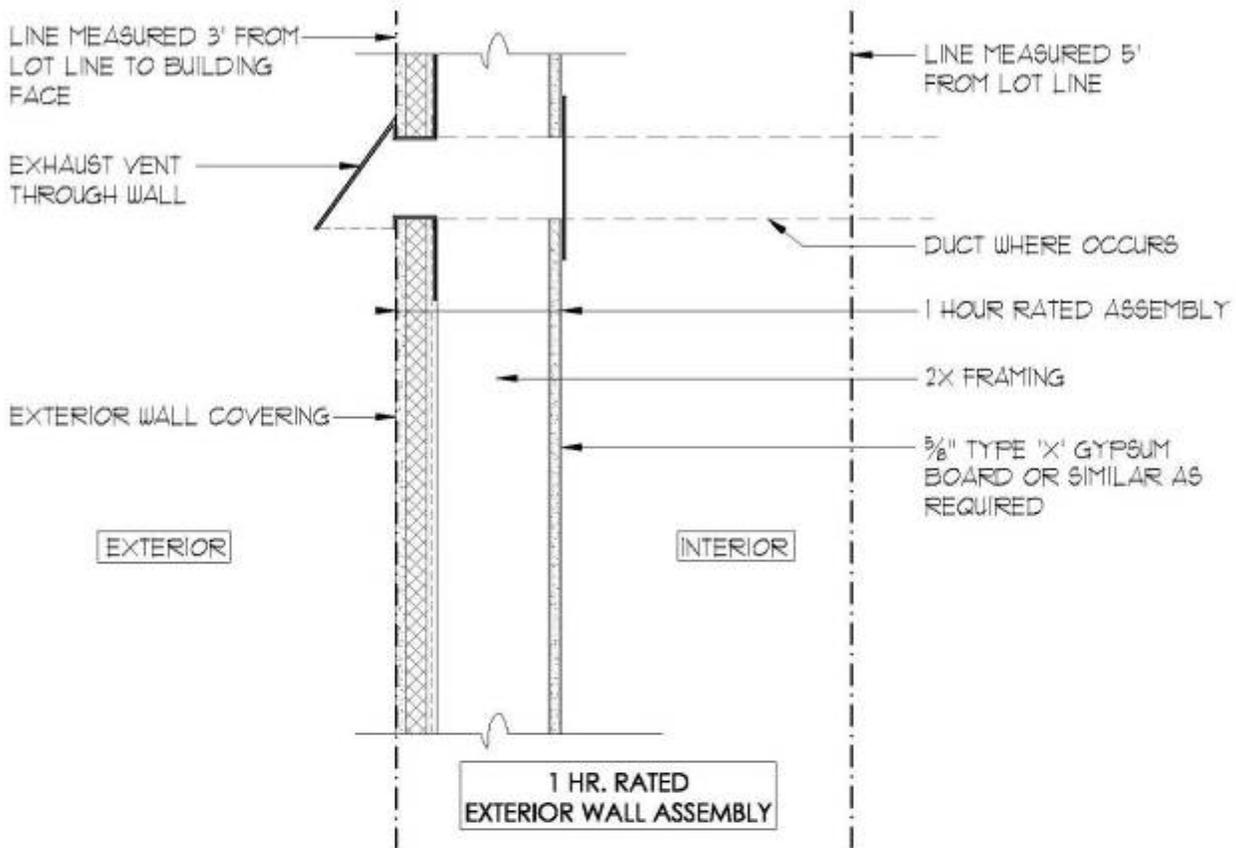


TABLE R302.1 - WALLS REQUIRED TO BE FIRE RESISTANCE RATED AND MEASURED A MINIMUM 3'-0" TO BUILDING FACE FROM PROPERTY LINE ARE PERMITTED 25% MAXIMUM OF WALL AREA AS UNPROTECTED OPENING.

EXHAUST VENTS TO BE CONSIDERED AS OPENING AND PART OF ALLOWABLE 25% CALCULATION.

## EXHAUST VENT AS OPENING

THESE DRAWINGS ARE INTENDED TO ILLUSTRATE CODE INTERPRETATIONS RELEVANT TO SECTION R302.1 AND TABLE R302.1 OF THE 2006 IRC AS AMENDED BY SNBO AND ADOPTED BY THE JURISDICTIONS COVERED IN SOUTHERN NEVADA. THESE DRAWINGS DO NOT COMMUNICATE CONSTRUCTION METHODS OR PRACTICES, NOR SHOULD ANY INFERENCE OF ANY CODE INTERPRETATION BEYOND THOSE ITEMS SPECIFIC TO R302.1 AND TABLE R302.1 OCCUR. THE USE OF THIS DRAWING IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING OFFICIAL.

# FIRE RESISTANCE RATED WALL CONSTRUCTION

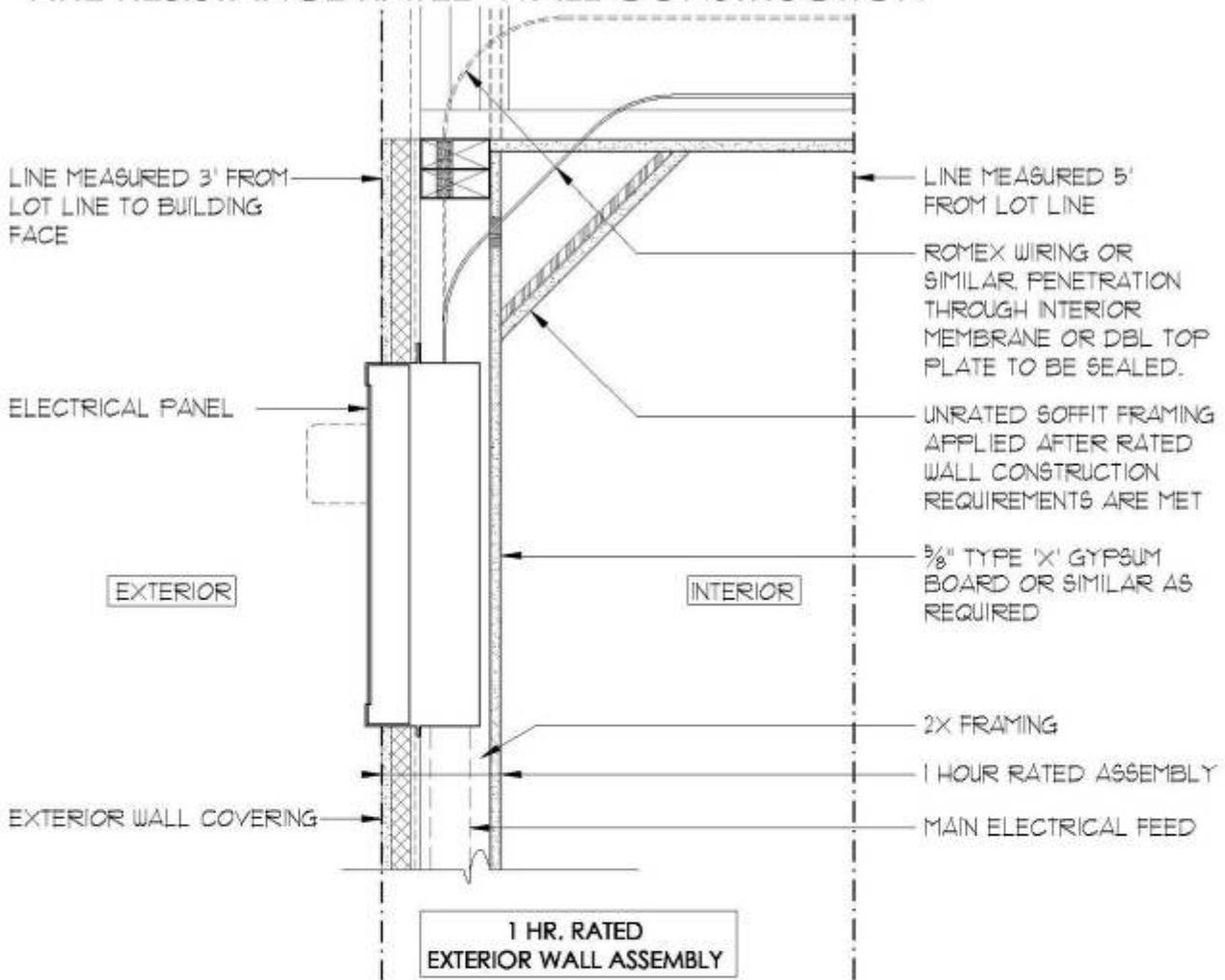


TABLE R302.1 - WALLS REQUIRED TO BE FIRE RESISTANCE RATED AND MEASURED A MINIMUM 3'-0" TO BUILDING FACE FROM PROPERTY LINE ARE PERMITTED 25% MAXIMUM OF WALL AREA AS UNPROTECTED OPENING.

ELECTRICAL PANEL AREA WHEN RECESSED IN WALL CAVITY MAY BE CONSIDERED PART OF ALLOWABLE 25% CALCULATION.

## ELECTRICAL PANEL AS OPENING

THESE DRAWINGS ARE INTENDED TO ILLUSTRATE CODE INTERPRETATIONS RELEVANT TO SECTION R302.1 AND TABLE R302.1 OF THE 2006 IRC AS AMENDED BY SNBO AND ADOPTED BY THE JURISDICTIONS COVERED IN SOUTHERN NEVADA. THESE DRAWINGS DO NOT COMMUNICATE CONSTRUCTION METHODS OR PRACTICES, NOR SHOULD ANY INFERENCE OF ANY CODE INTERPRETATION BEYOND THOSE ITEMS SPECIFIC TO R302.1 AND TABLE R302.1 OCCUR. THE USE OF THIS DRAWING IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING OFFICIAL.