









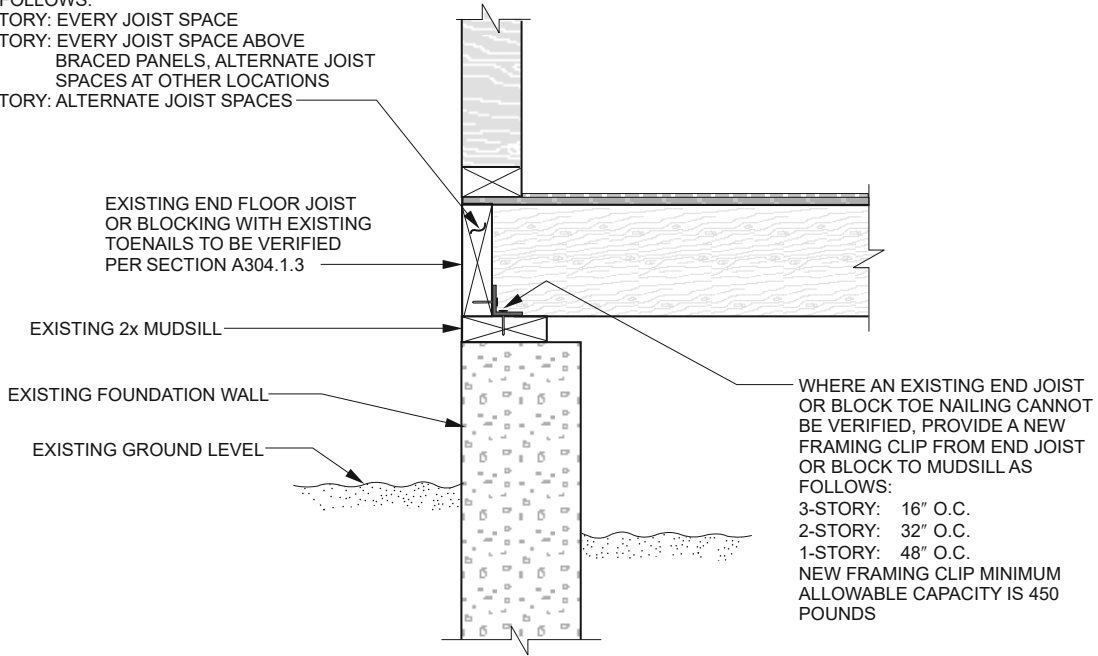




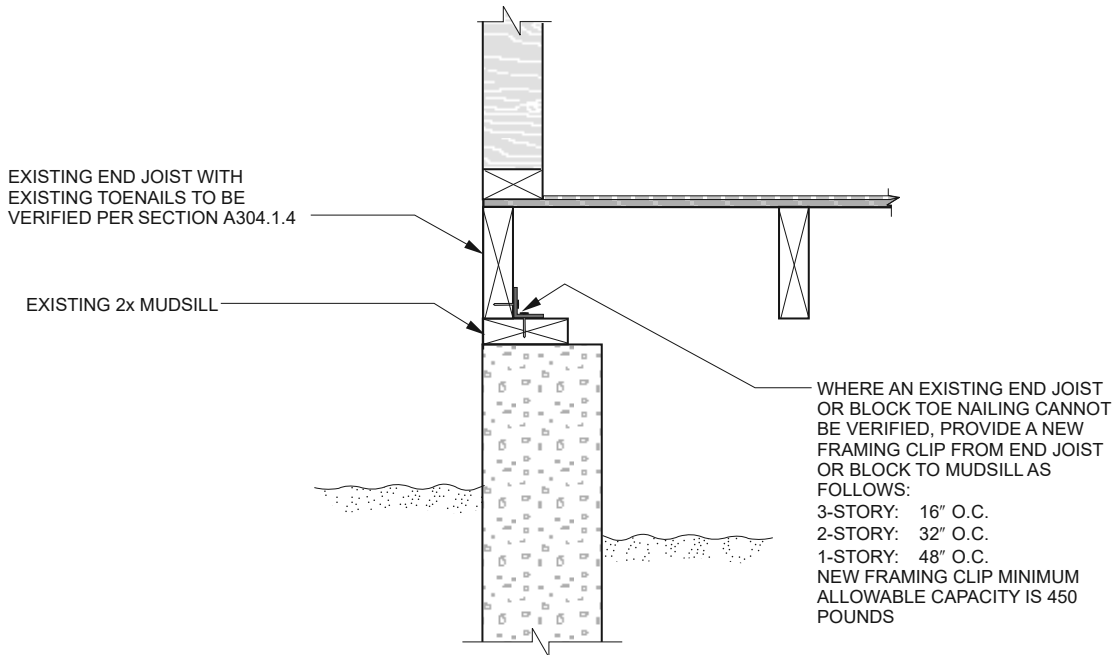


APPENDIX A

WHERE AN EXISTING RIM JOIST OR BLOCKING IS NOT PRESENT, PROVIDE NEW 2x SOLID BLOCKING AS FOLLOWS:  
 3-STORY: EVERY JOIST SPACE  
 2-STORY: EVERY JOIST SPACE ABOVE BRACED PANELS, ALTERNATE JOIST SPACES AT OTHER LOCATIONS  
 1-STORY: ALTERNATE JOIST SPACES



FLOOR JOISTS NOT PARALLEL TO FOUNDATIONS



FLOOR JOISTS PARALLEL TO FOUNDATIONS

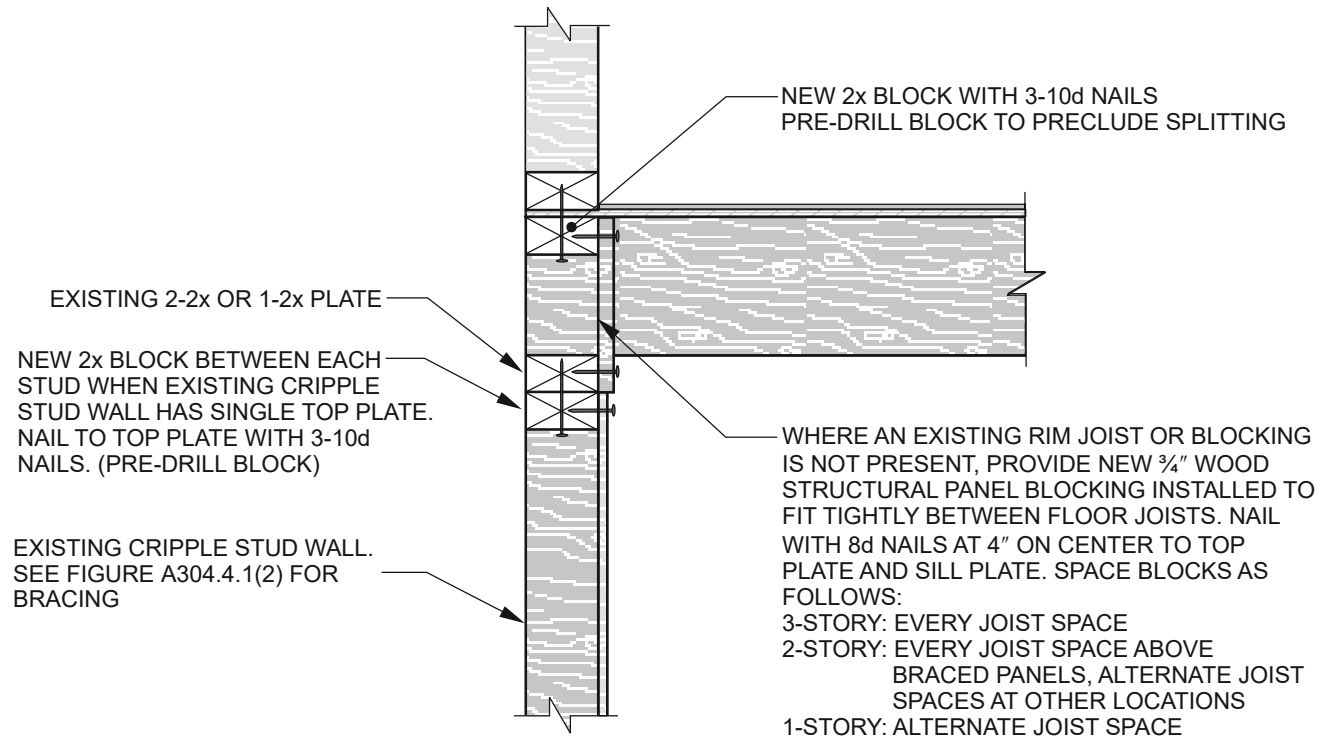
For SI: 1 inch = 25.4 mm.

NOTES:

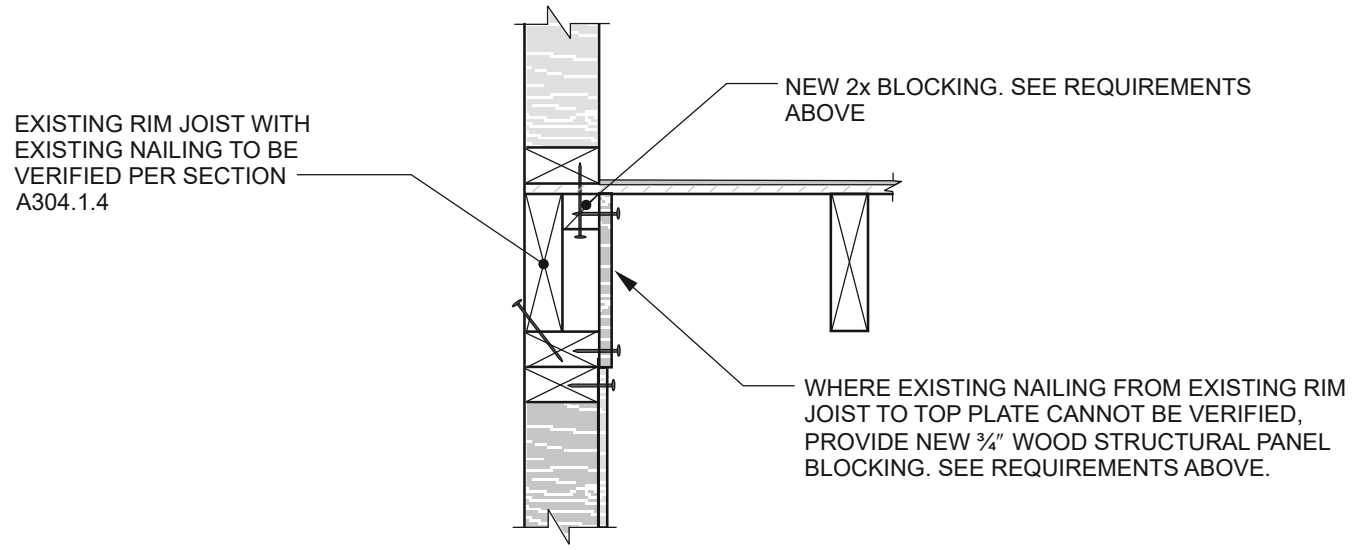
1. See Section A304.3 for sill plate anchorage.
2. See manufacturing instructions for nail sizes associated with metal framing clips.

[BS] FIGURE A304.1.4(2)  
TYPICAL FLOOR TO MUDSILL CONNECTIONS





FLOOR JOISTS NOT PARALLEL TO FOUNDATION



FLOOR JOISTS PARALLEL TO FOUNDATION

For SI: 1 inch = 25.4 mm, 1 pound = 4.4 N.  
NOTE: See Section A304.4 for cripple wall bracing.

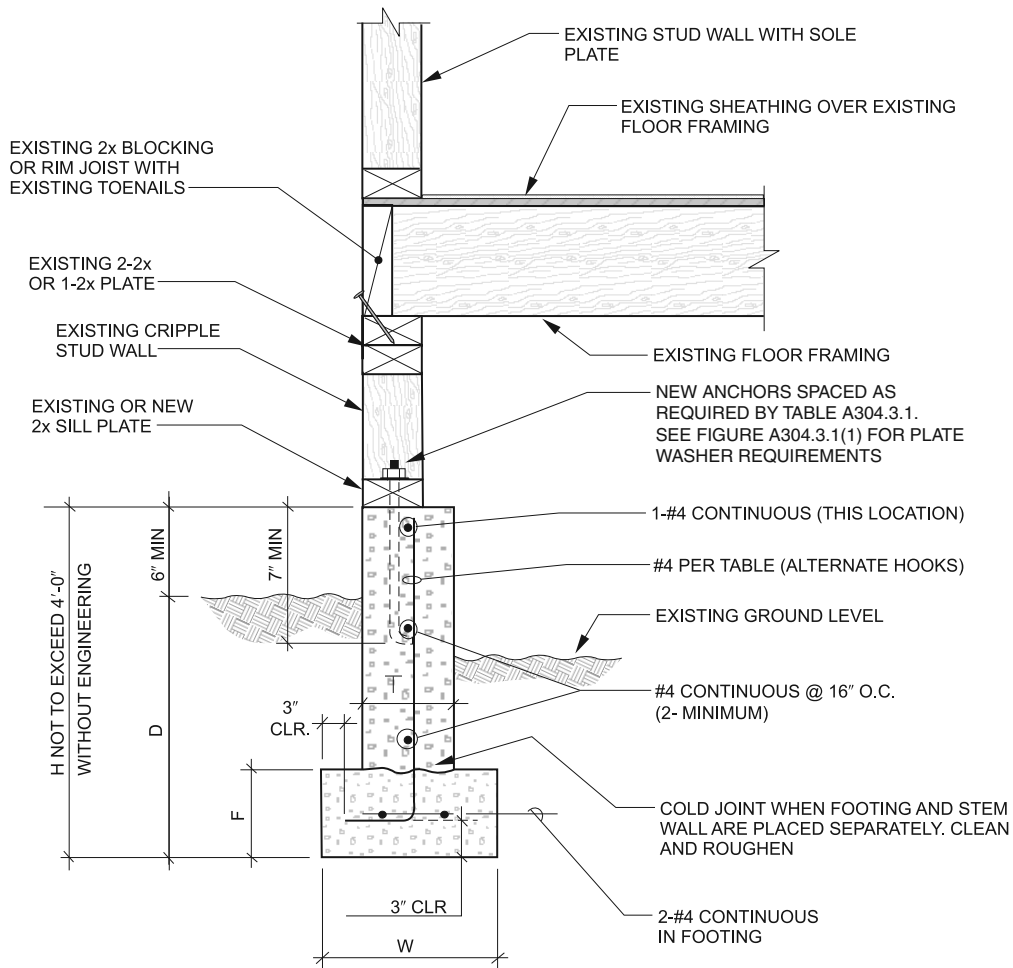
[BS] FIGURE A304.1.4(3)  
ALTERNATIVE FLOOR FRAMING TO CRIPPLE WALL CONNECTION

APPENDIX A

| NUMBER OF STORIES | MINIMUM FOUNDATION DIMENSIONS |          |                      |           |             | MINIMUM FOUNDATION REINFORCING |                                   |
|-------------------|-------------------------------|----------|----------------------|-----------|-------------|--------------------------------|-----------------------------------|
|                   | W                             | F        | D <sup>a, b, c</sup> | T         | H           | VERTICAL REINFORCING           |                                   |
|                   |                               |          |                      |           |             | Single-pour wall and footing   | Footing placed separate from wall |
| 1                 | 12 inches                     | 6 inches | 12 inches            | 6 inches  | ≤ 24 inches | #4 @ 48 inches on center       | #4 @ 32 inches on center          |
| 2                 | 15 inches                     | 7 inches | 18 inches            | 8 inches  | ≥ 36 inches | #4 @ 48 inches on center       | #4 @ 32 inches on center          |
| 3                 | 18 inches                     | 8 inches | 24 inches            | 10 inches | ≥ 36 inches | #4 @ 48 inches on center       | #4 @ 18 inches on center          |

For SI: 1 inch = 25.4 mm.

- a. Where frost conditions occur, the minimum depth shall extend below the frost line.
- b. The ground surface along the interior side of the foundation may be excavated to the elevation of the top of the footing.
- c. Where the soil is designated as expansive, the foundation depth and reinforcement shall be approved by the code official.



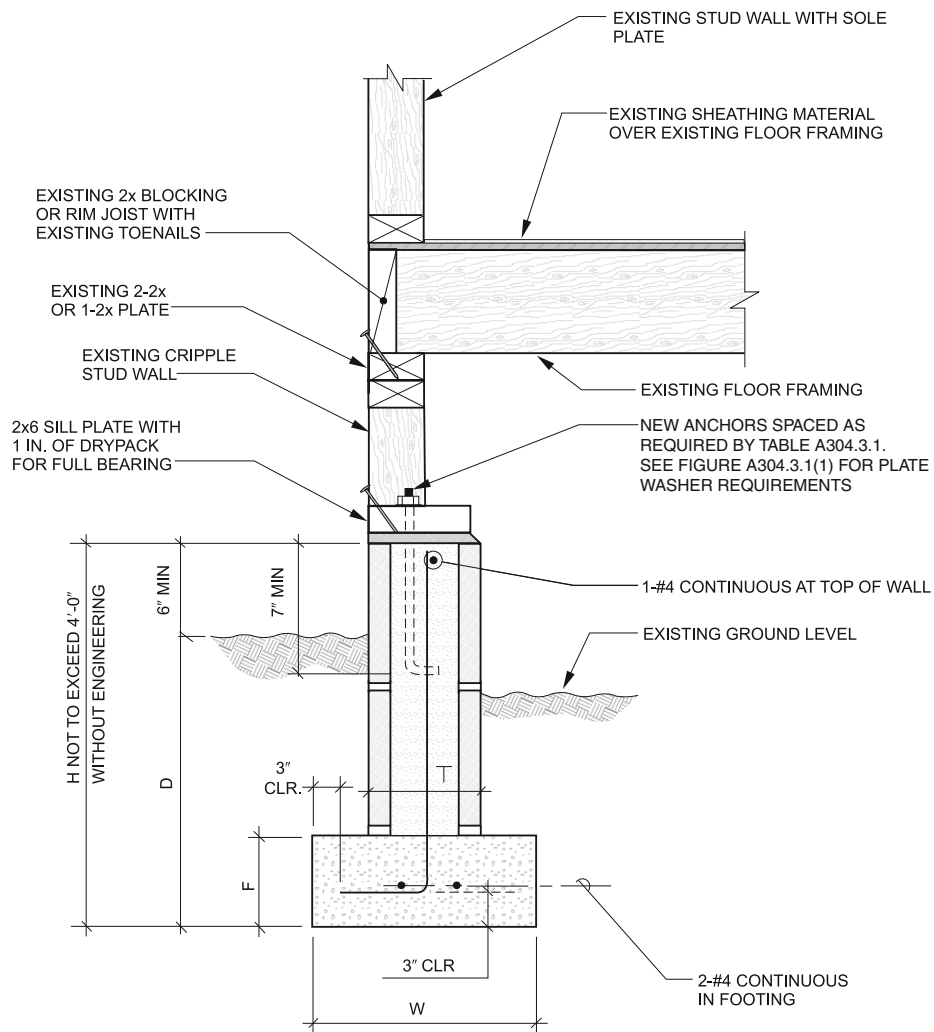
For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

**[BS] FIGURE A304.2.3(1)  
NEW REINFORCED CONCRETE FOUNDATION SYSTEM**

| MINIMUM FOUNDATION DIMENSIONS |           |          |                      |           | MINIMUM FOUNDATION REINFORCING |                          |                                   |
|-------------------------------|-----------|----------|----------------------|-----------|--------------------------------|--------------------------|-----------------------------------|
| NUMBER OF STORIES             | W         | F        | D <sup>a, b, c</sup> | T         | H                              | VERTICAL REINFORCING     | HORIZONTAL REINFORCING            |
| 1                             | 12 inches | 6 inches | 12 inches            | 6 inches  | ≤ 24 inches                    | #4 @ 24 inches on center | #4 continuous at top of stem wall |
| 2                             | 15 inches | 7 inches | 18 inches            | 8 inches  | ≥ 24 inches                    | #4 @ 24 inches on center | #4 @ 16 inches on center          |
| 3                             | 18 inches | 8 inches | 24 inches            | 10 inches | ≥ 36 inches                    | #4 @ 24 inches on center | #4 @ 16 inches on center          |

For SI: 1 inch = 25.4 mm.

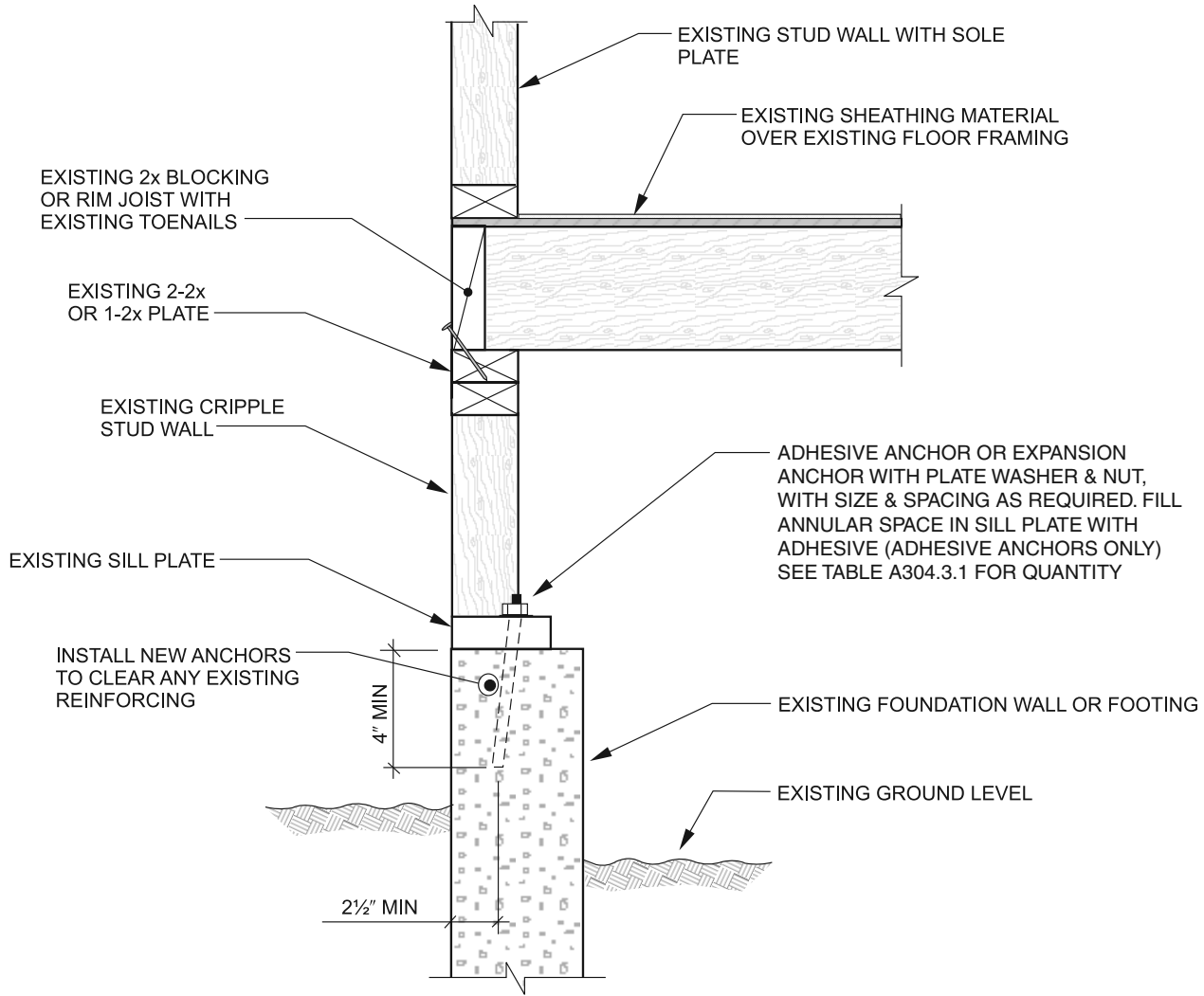
- a. Where frost conditions occur, the minimum depth shall extend below the frost line.
- b. The ground surface along the interior side of the foundation may be excavated to the elevation of the top of the footing.
- c. Where the soil is designated as expansive, the foundation depth and reinforcement shall be approved by the code official.



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

[BS] FIGURE A304.2.3(2)  
NEW MASONRY CONCRETE FOUNDATION

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For SI: 1 inch = 25.4 mm.

a. Plate washers shall comply with the following:

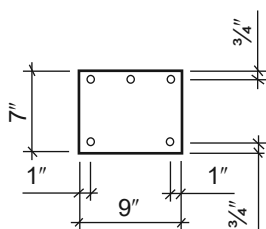
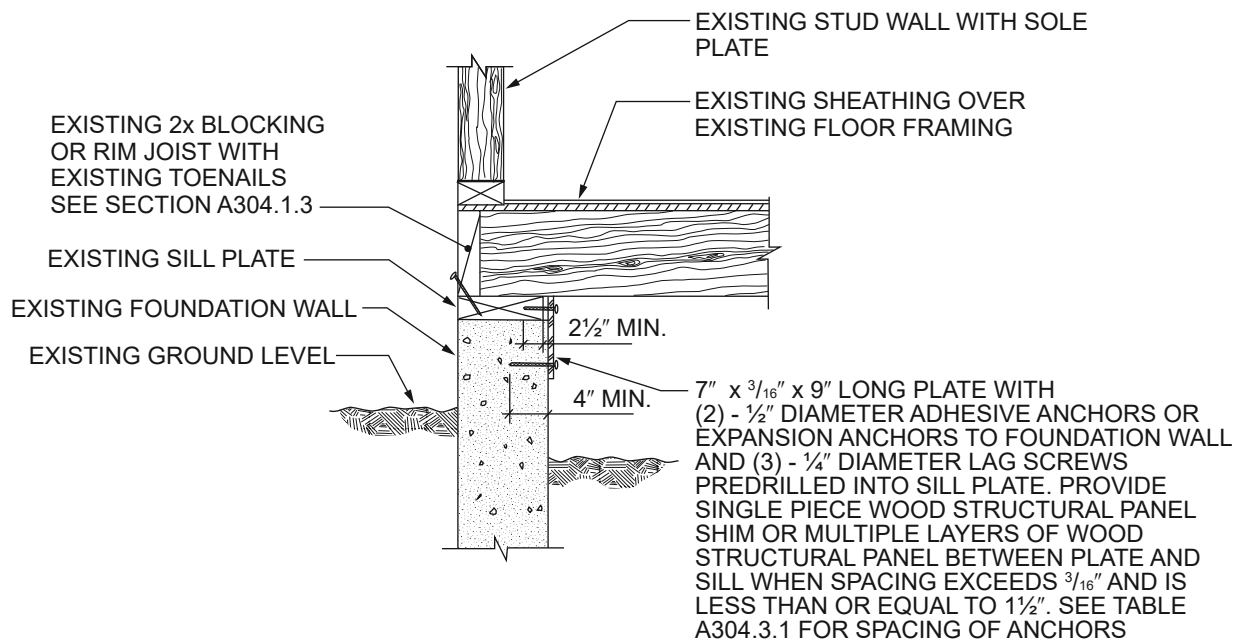
1/2-inch anchor or bolt—3 inches × 3 inches × 0.229 inch minimum.

5/8-inch anchor or bolt—3 inches × 3 inches × 0.229 inch minimum.

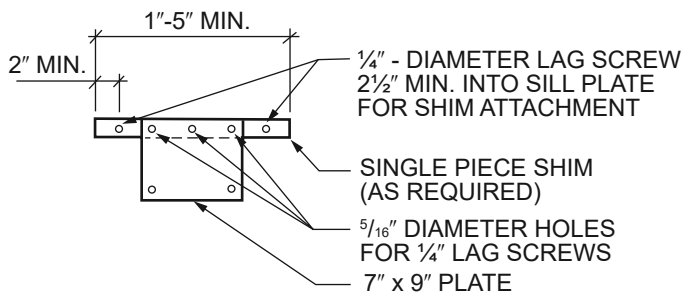
A diagonal slot in the plate washer is permitted in accordance with Table A304.3.1, Note b.

b. See Figure A304.4.1(1) or A304.4.1(2) for cripple wall bracing.

[BS] FIGURE A304.3.1(1)  
SILL PLATE ANCHORING TO EXISTING FOUNDATION<sup>a, b</sup>



HOLE DIAMETER SHALL NOT EXCEED CONNECTOR DIAMETER BY MORE THAN 1/16"



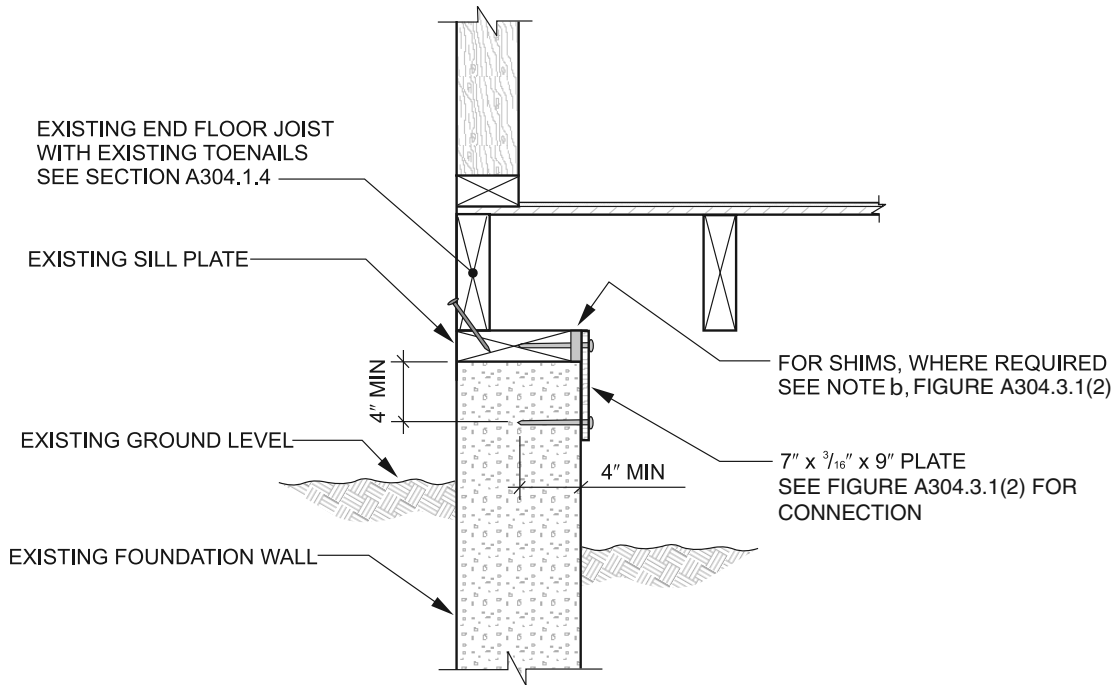
CONNECTION WHEN SHIM SPACE EXCEEDS 3/4" IN. WIDTH UP TO 1 1/2"

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

- a. If shim space exceeds 1 1/2 inches, alternative details will be required.
- b. Where required, single piece shim shall be naturally durable wood or preservative-treated wood. If preservative-treated wood is used, it shall be isolated from the foundation system with a moisture barrier.

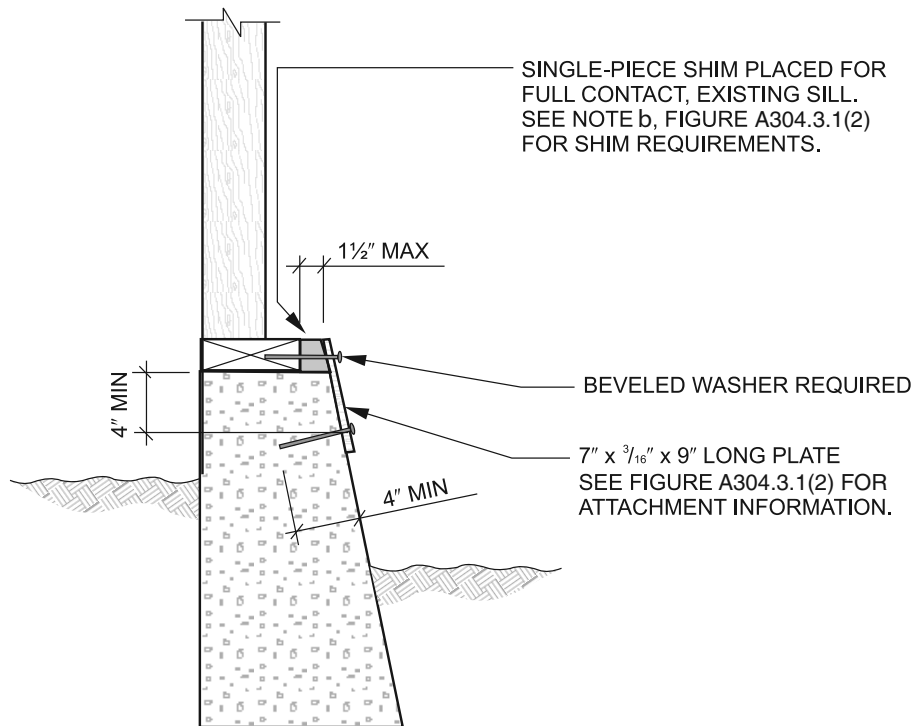
[BS] FIGURE A304.3.1(2)  
 ALTERNATIVE SILL PLATE ANCHORING IN EXISTING FOUNDATION—  
 WITHOUT CRIPPLE WALLS AND FLOOR FRAMING NOT PARALLEL TO FOUNDATIONS<sup>a, b</sup>

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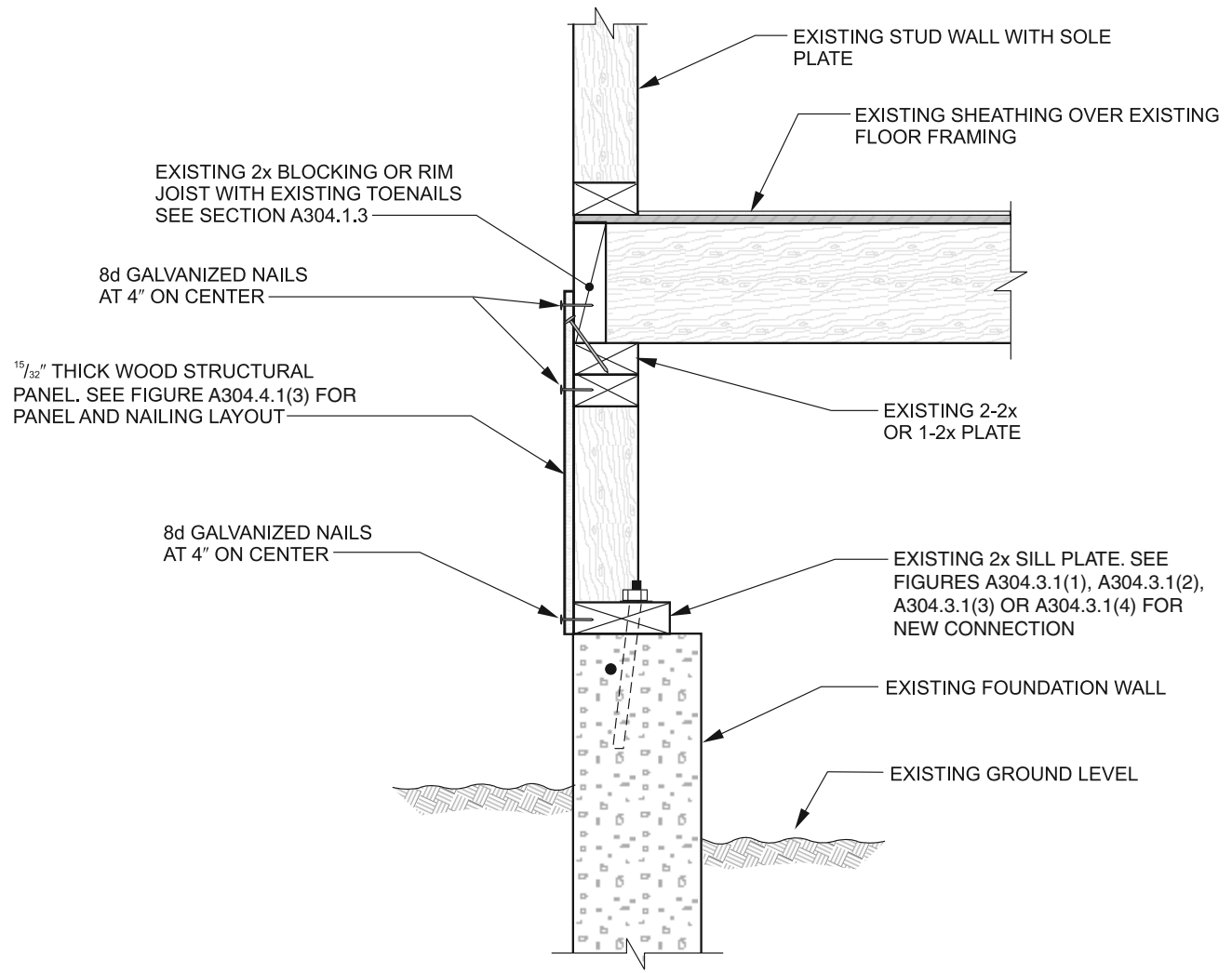
For SI: 1 inch = 25.4 mm.

**[BS] FIGURE A304.3.1(3)**  
**ALTERNATIVE SILL PLATE ANCHOR TO EXISTING FOUNDATION WITHOUT CRIPPLE WALL AND FLOOR FRAMING PARALLEL TO FOUNDATIONS**



For SI: 1 inch = 25.4 mm.

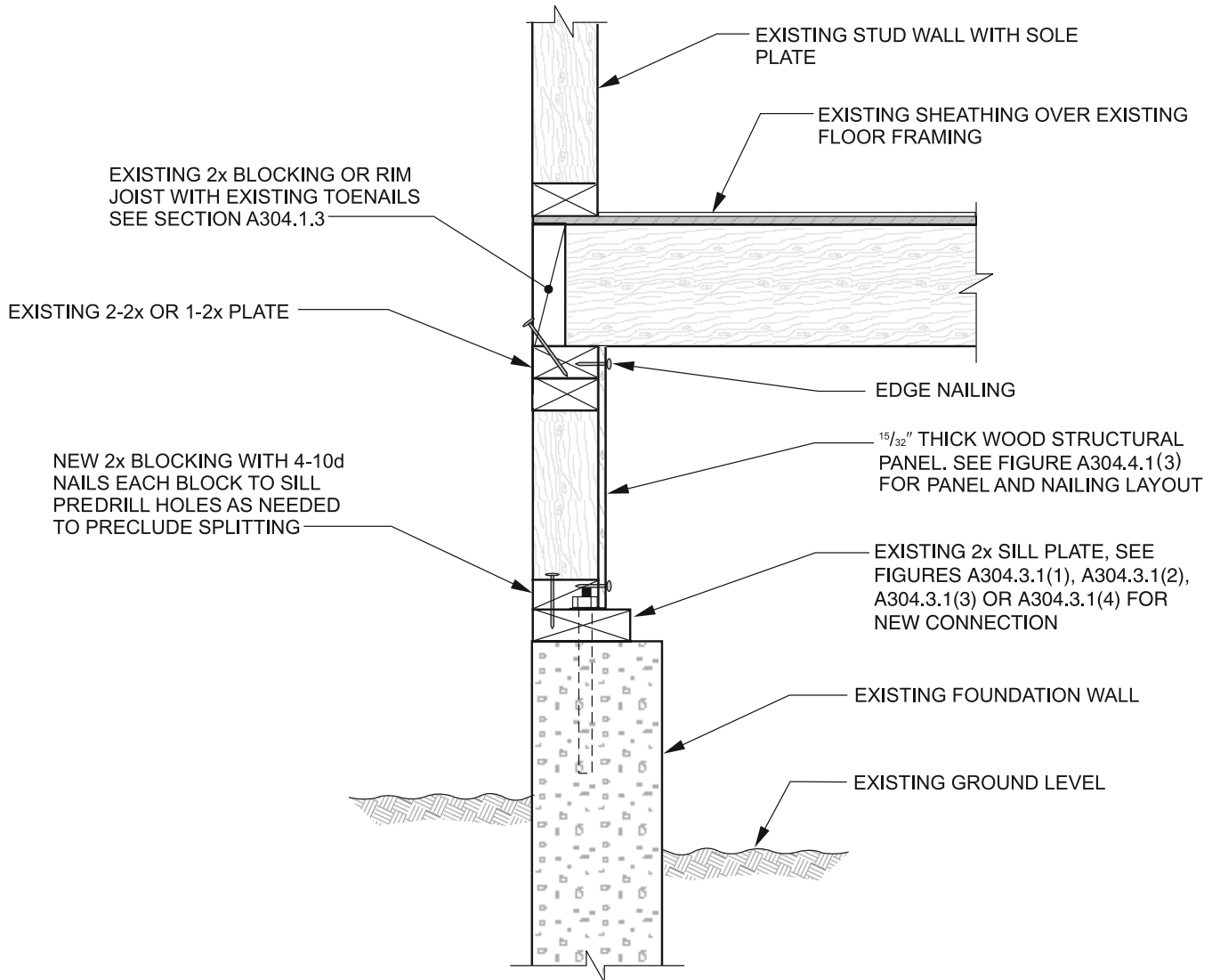
**[BS] FIGURE A304.3.1(4)**  
**SILL PLATE ANCHORING TO EXISTING FOUNDATION—ALTERNATIVE CONNECTION FOR BATTERED FOOTING**



For SI: 1 inch = 25.4 mm.  
 NOTE: See Figure A304.3.1(1) for sill plate anchoring.

**[BS] FIGURE A304.4.1(1)**  
**CRIPPLE WALL BRACING WITH NEW WOOD STRUCTURAL PANEL ON EXTERIOR FACE OF CRIPPLE STUDS**

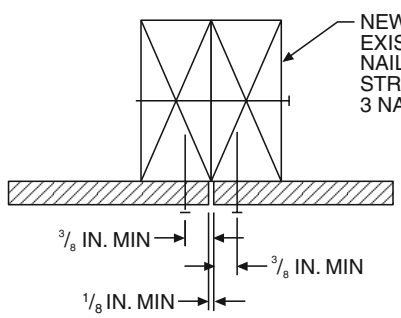
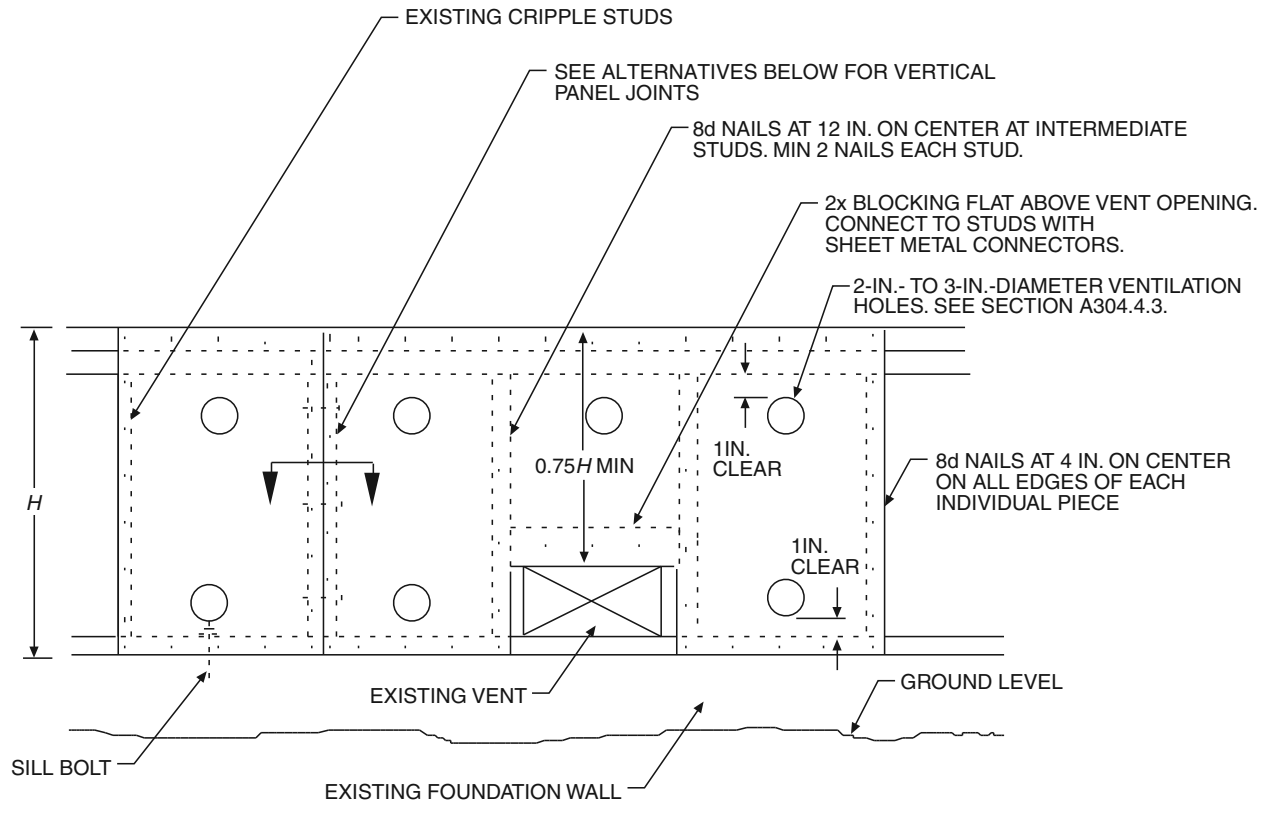
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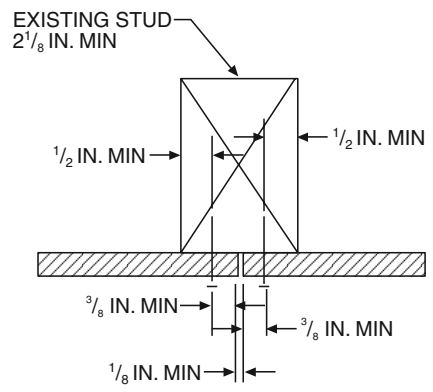
For SI: 1 inch = 25.4 mm.

[BS] FIGURE A304.4.1(2)  
CRIPPLE WALL BRACING WITH WOOD STRUCTURAL PANEL ON INTERIOR FACE OF CRIPPLE STUDS





VERTICAL SPLICE AT DOUBLE STUD

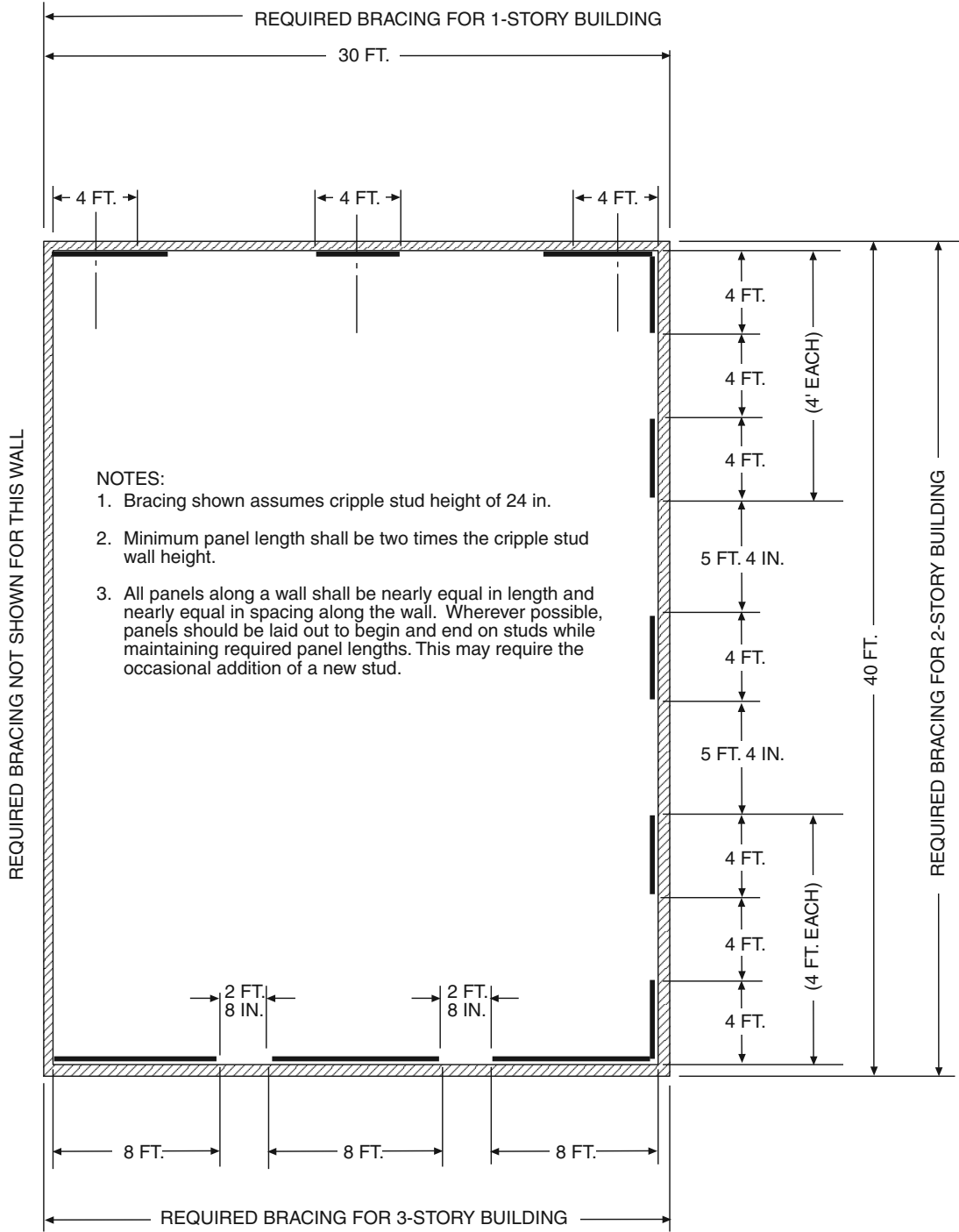


VERTICAL SPLICE AT SINGLE STUD

For SI: 1 inch = 25.4 mm.

[BS] FIGURE A304.4.1(3)  
PARTIAL CRIPPLE STUD WALL ELEVATION

APPENDIX A



Bracing determination:

- 1-story building—each end and not less than 40% of wall length.<sup>a</sup>  
 Transverse wall—30 ft. × 0.40 = 12 ft. minimum panel length = 4 ft. 0 in.
- 2-story building—each end and not less than 50% of wall length.<sup>a</sup>  
 Longitudinal wall—40 ft. × 0.50 = 20 ft. 0 in. minimum of bracing.
- 3-story building—each end and not less than 80% of wall length.<sup>a</sup>  
 Transverse wall—30 ft. × 0.80 = 24 ft. 0 in. minimum of bracing.

<sup>a</sup>See Table A304.3.1 for buildings with both plaster walls and roofing exceeding 6 psf.

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 42.88 N/m<sup>2</sup>.

[BS] FIGURE A304.4.2 FLOOR PLAN-CRIPPLE WALL BRACING LAYOUT