

# CONSTRUCTION DETAILS



**FOAM LAMINATES**  
of vermont  
STRUCTURAL INSULATED PANEL SYSTEMS

Divisions of Mortise & Tenon LLC

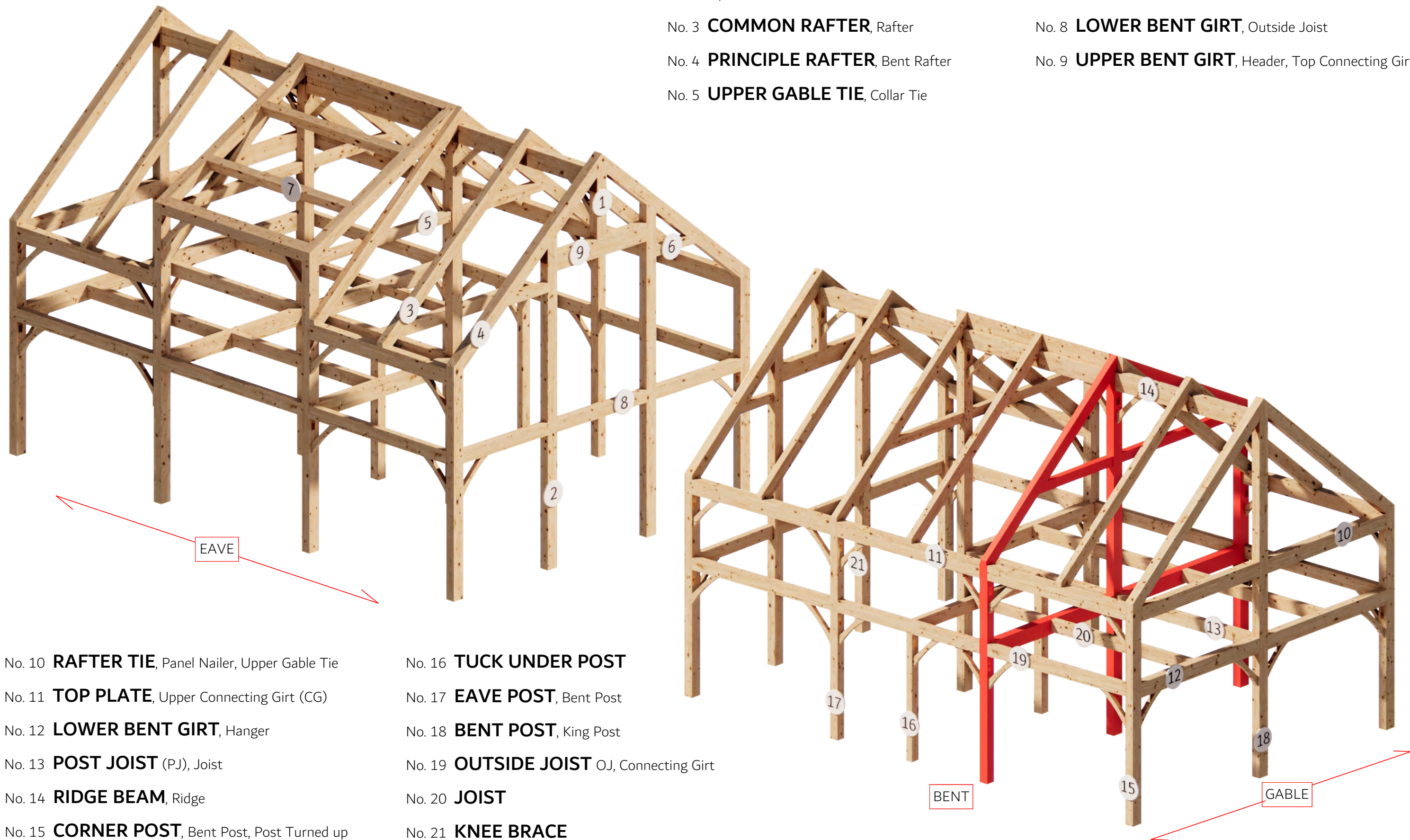


<b>TERMINOLOGY</b> .....	<b>3</b>
<b>FOUNDATION</b> .....	<b>9</b>
FRAMED FLOOR.....	10
SLAB AT FROST WALL.....	12
SLAB OVER FROST WALL.....	14
SLAB INTO NOTCHED FROST WALL.....	16
SLAB W/ CURB.....	18
SLAB W/ UNINSULATED CURB.....	20
FLOATING SLAB.....	22
FOOTING W/ SLAB.....	24
WALKOUT PT.1.....	26
WALKOUT PT.2.....	28
FRAMED FLOOR W/ DECK CONNECTION.....	30
<b>SECOND FLOOR</b> .....	<b>33</b>
FLOOR W/ BUILDUP.....	36
FLOOR W/ OUT CAVITY.....	38
<b>EAVES</b> .....	<b>39</b>
SQUARE FASCIA.....	40
FRAMED LADDER OVERHANG.....	42
<b>ELECTRICAL</b> .....	<b>45</b>
SIP WIRING LAYOUTS.....	46
RIDGE WIRE.....	47
CEILING WIRES.....	48
WIRE ROUTING.....	49
TIMBER FRAME & SIP CORNER.....	50
STRUCTURAL PANEL CORNER.....	51

# TABLE OF CONTENTS



# TERMINOLOGY



No. 1 **KING POST**

No. 2 **QUEEN POST**, Bent Post

No. 3 **COMMON RAFTER**, Rafter

No. 4 **PRINCIPLE RAFTER**, Bent Rafter

No. 5 **UPPER GABLE TIE**, Collar Tie

No. 6 **PANEL NAILER**, Collar Tie, Upper Gable Tie

No. 7 **PURLIN**

No. 8 **LOWER BENT GIRT**, Outside Joist

No. 9 **UPPER BENT GIRT**, Header, Top Connecting Girt

No. 10 **RAFTER TIE**, Panel Nailer, Upper Gable Tie

No. 11 **TOP PLATE**, Upper Connecting Girt (CG)

No. 12 **LOWER BENT GIRT**, Hanger

No. 13 **POST JOIST** (PJ), Joist

No. 14 **RIDGE BEAM**, Ridge

No. 15 **CORNER POST**, Bent Post, Post Turned up

No. 16 **TUCK UNDER POST**

No. 17 **EAVE POST**, Bent Post

No. 18 **BENT POST**, King Post

No. 19 **OUTSIDE JOIST** OJ, Connecting Girt

No. 20 **JOIST**

No. 21 **KNEE BRACE**

# FOAM LAMINATES of vermont

STRUCTURAL INSULATED PANEL SYSTEMS



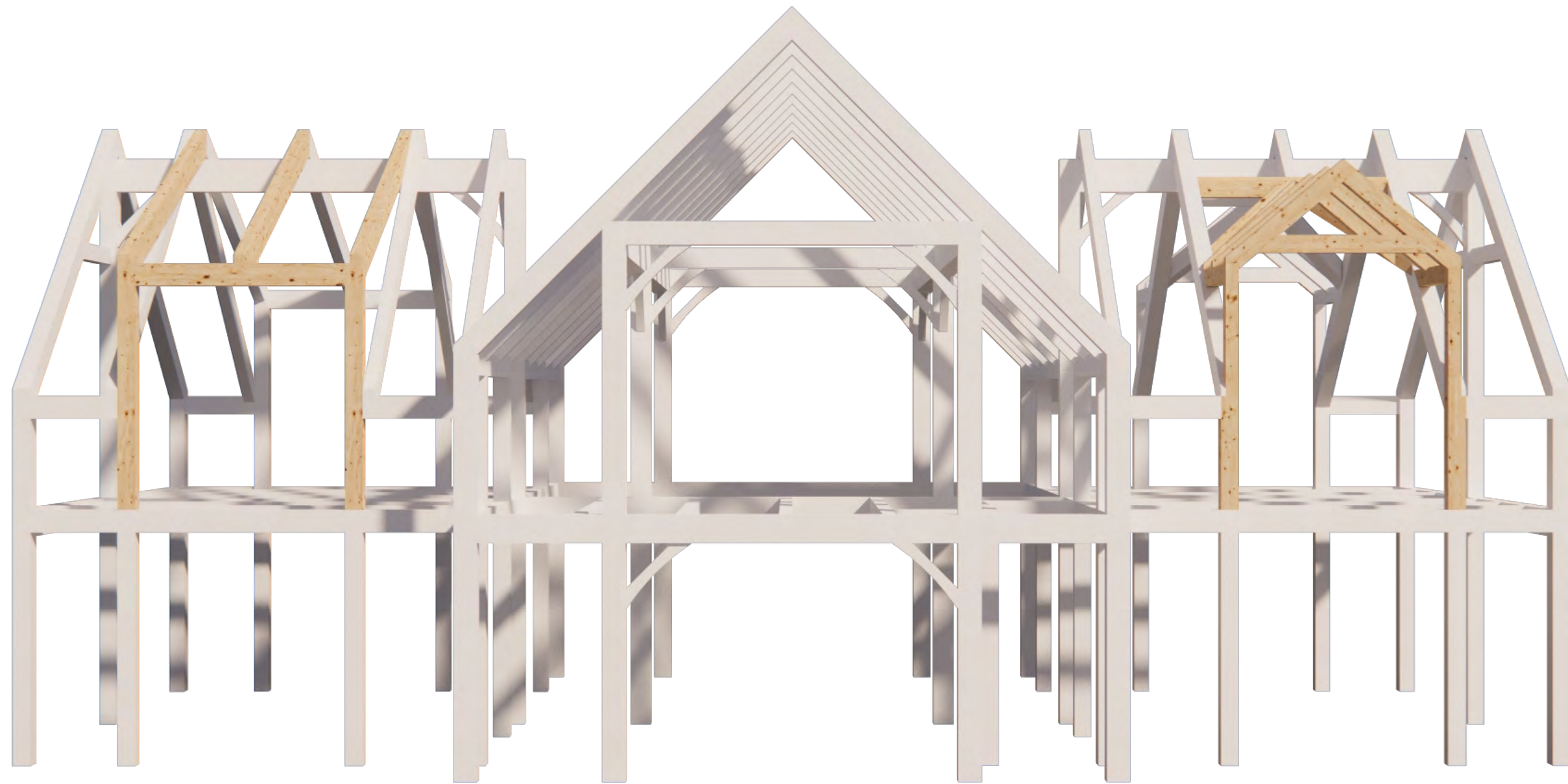
- 1 FOAM SLAB INSULATION
- 2 FOAM WALL INSULATION
- 3 5/8" PADDING
- 4 SIP WALL
- 5 WINDOW CUTOUT
- 6 VAPOR RETARDER
- 7 ROOF SIP

- 1 TIMBER FRAME
- 2 ROOF BOARDS

## CONTRACTOR

- 1 FOAM SLAB INSULATION
- 2 FOAM WALL INSULATION
- 3 FOOTING, FLOOR SLAB & FOUNDATION WALL
- 4 INSECT SHIELD, SILL PLATE & RIM BOARD
- 5 I-JOIST, FLOOR SHEATHING & METAL STRAPPING
- 6 WINDOW, 2X BLOCKING, FLASHING
- 7 30# FELT PAPER, RAIN SCREEN, SIDING
- 8 FASCIA BLOCKING, FASCIA TRIM, DRIP EDGE, ICE & WATER SHIELD, ROOF PAPER, STANDING SEAM





**SHED DORMER**

**GABLE DORMER**



**STEP 1. Timber Frame**



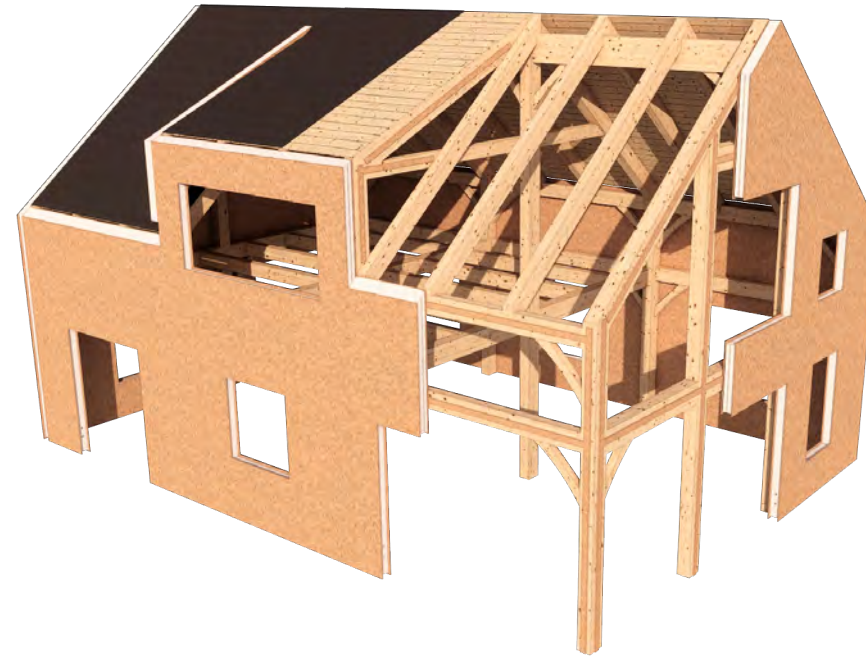
**STEP 2. Padding**



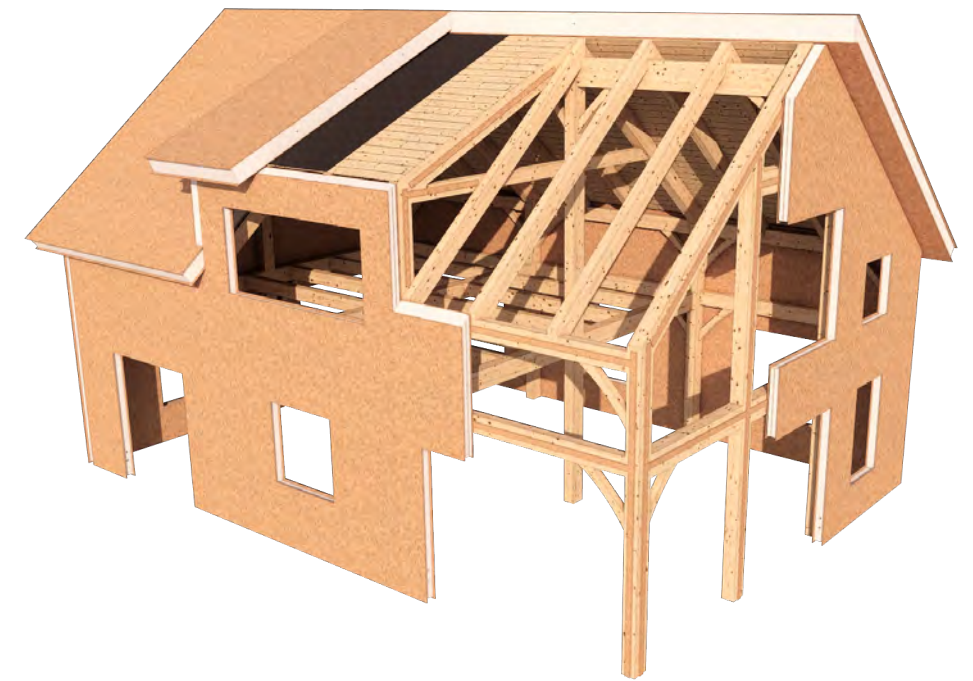
**STEP 3. Roof T&G**



**STEP 4. Vapor Retarder**



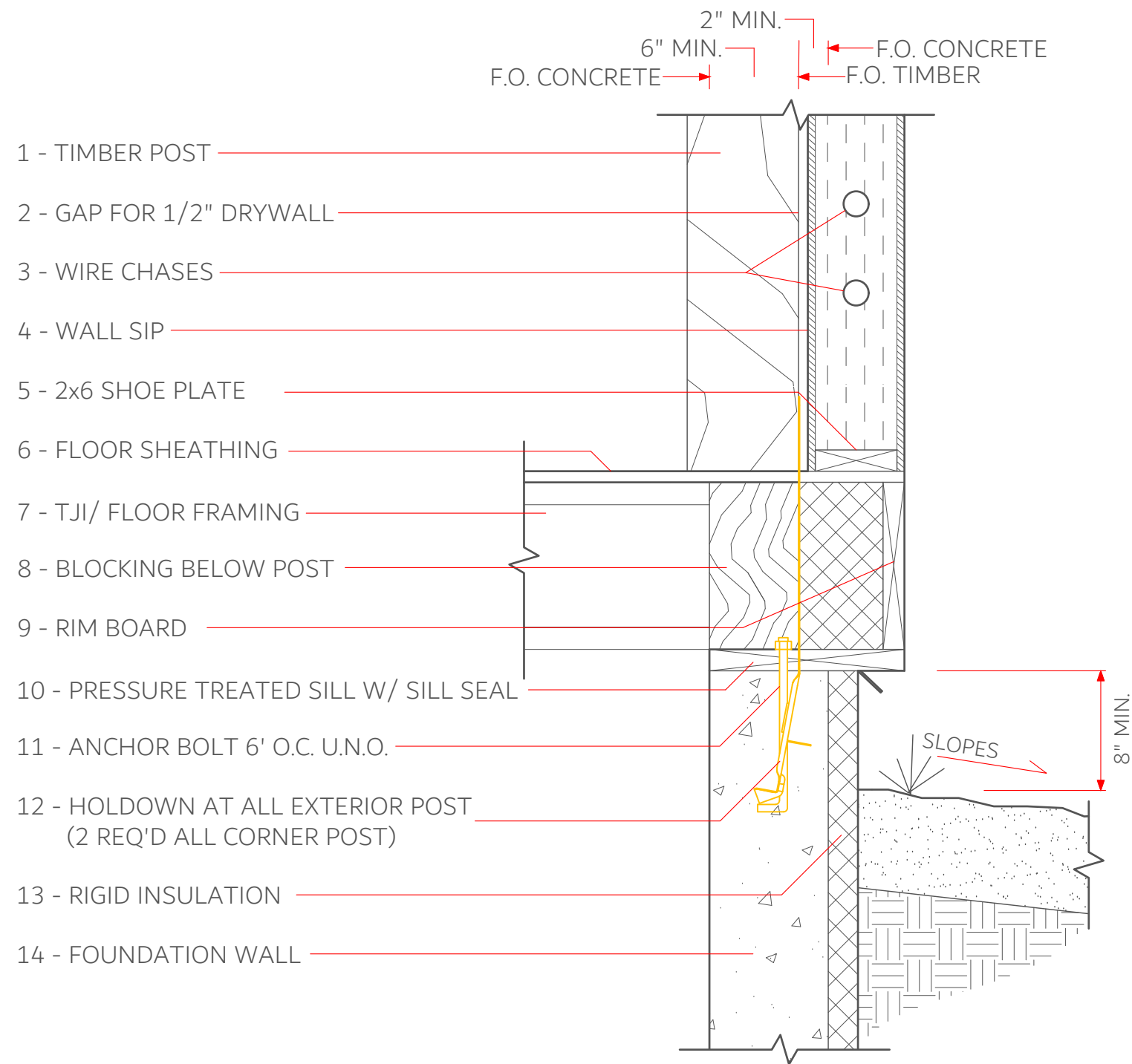
**STEP 5. Wall SIPs**



**STEP 6. Roof SIPs**

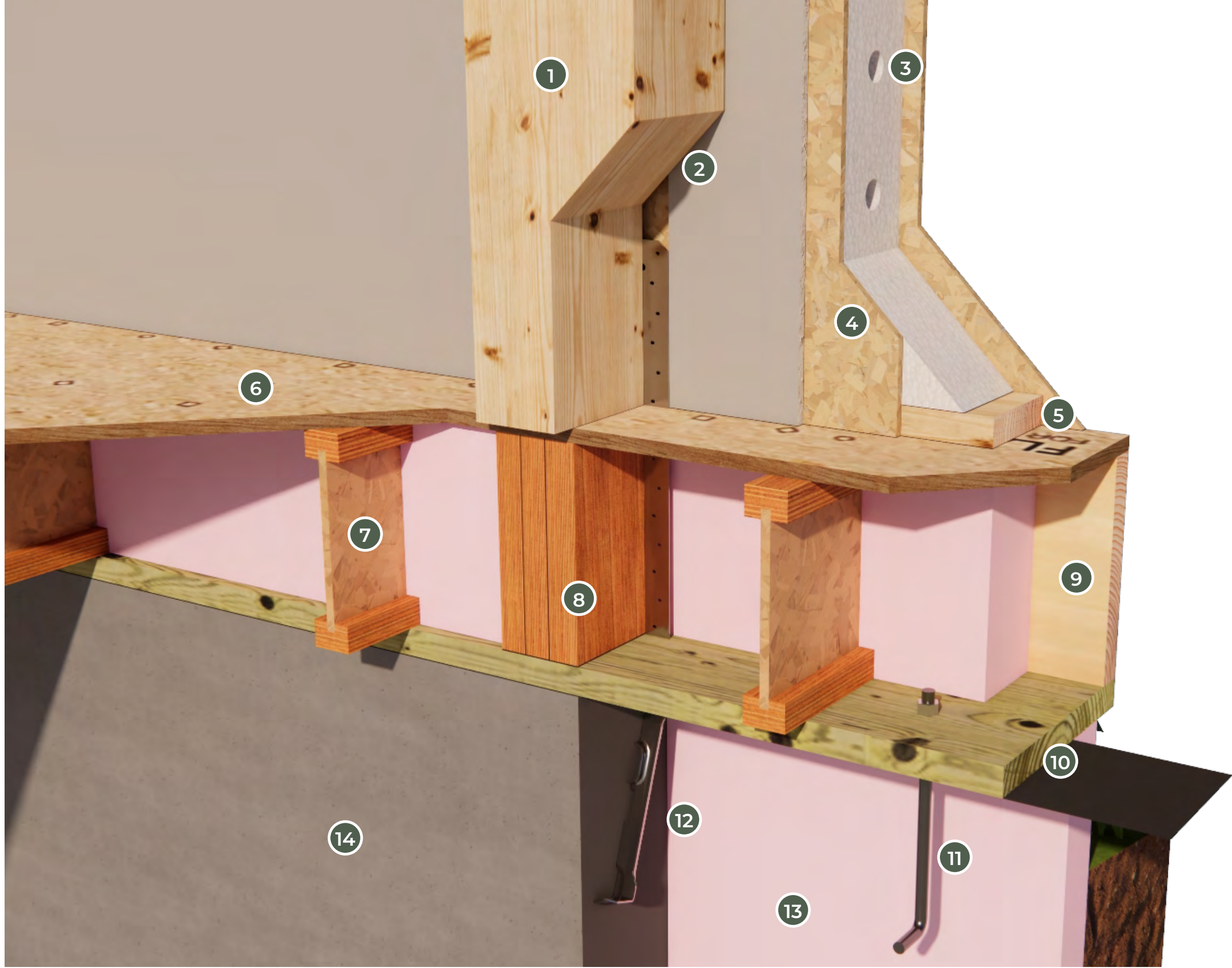


# FOUNDATION



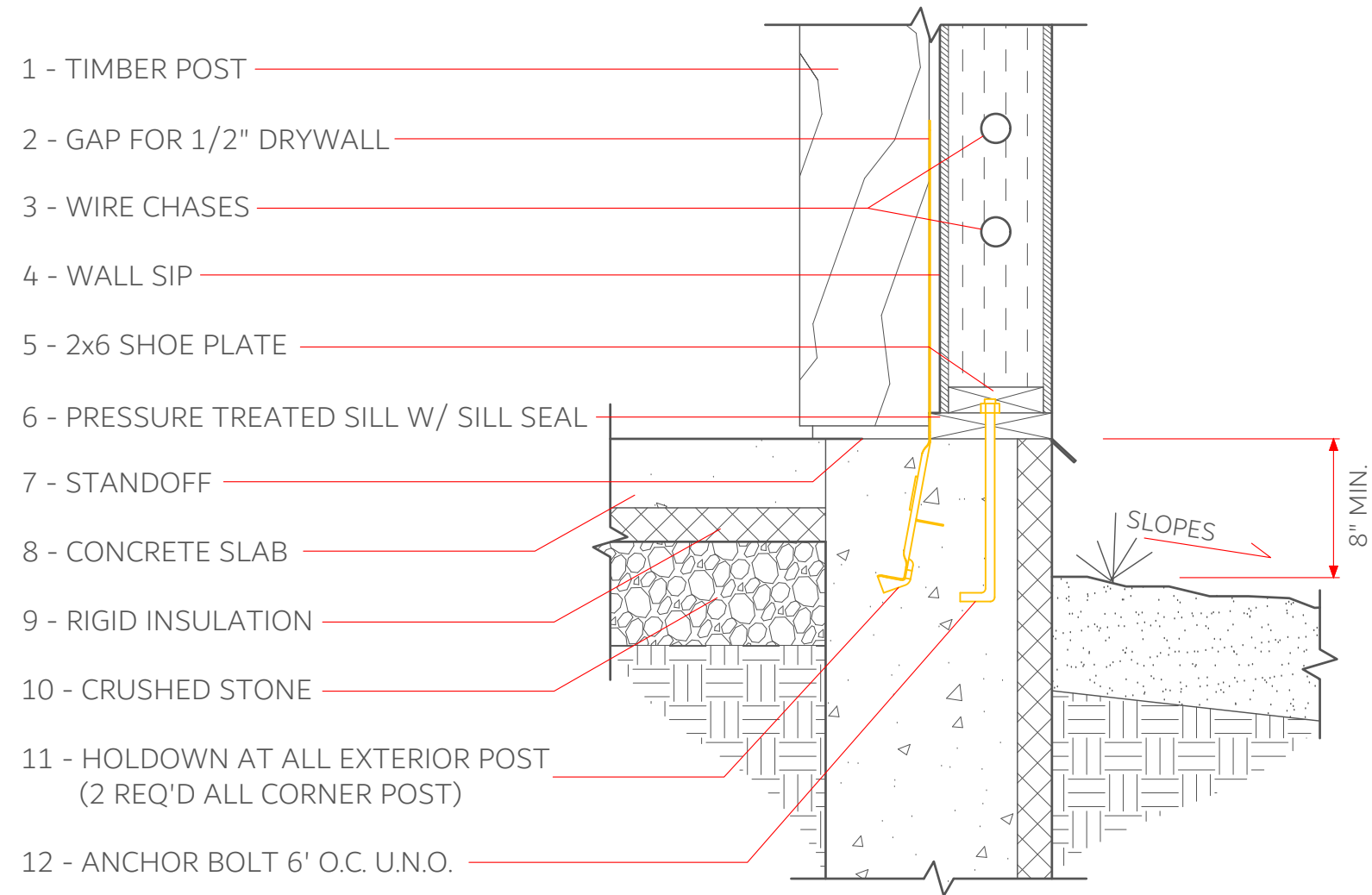
## TYPICAL: FRAMED FLOOR

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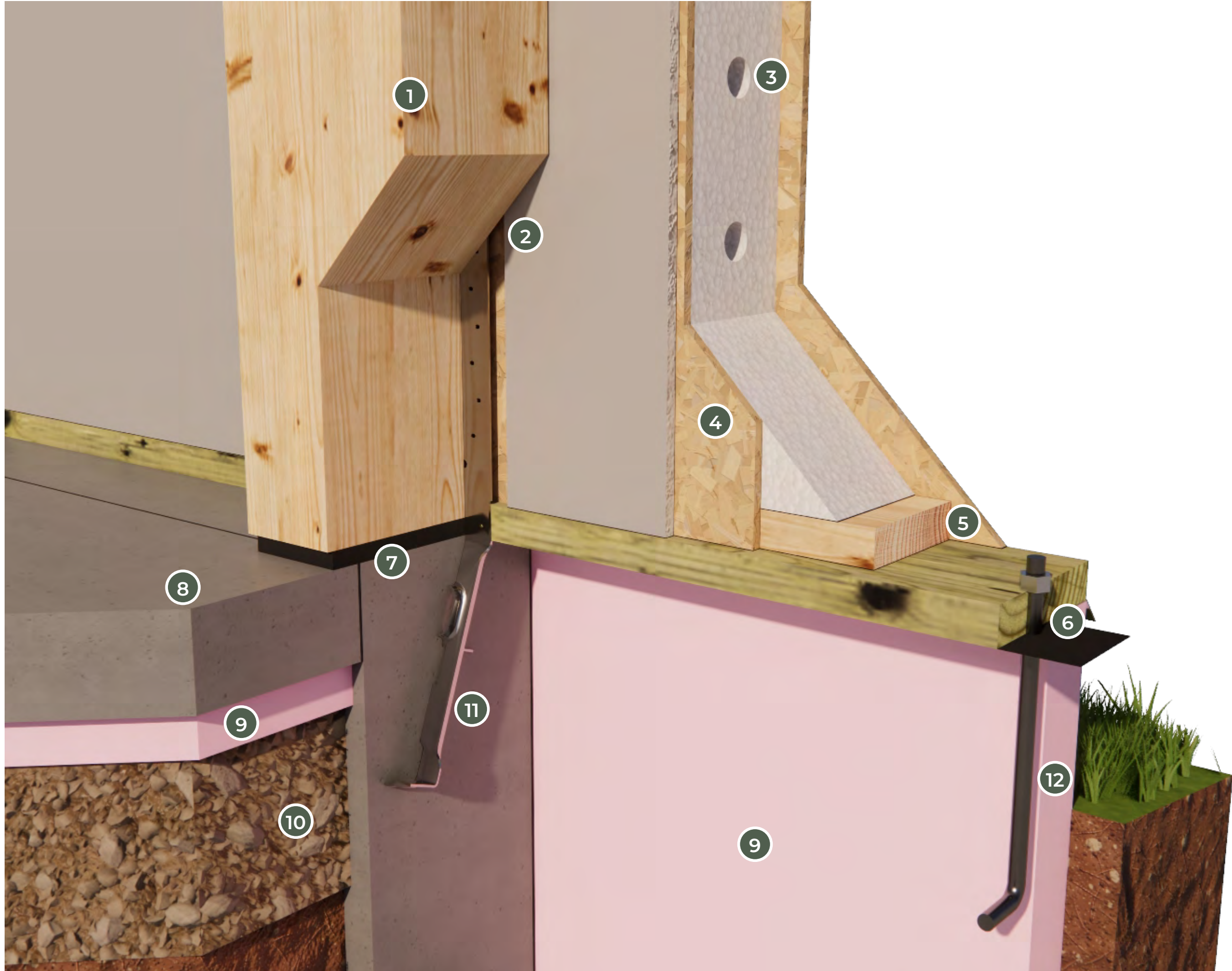
# TYPICAL: FRAMED FLOOR

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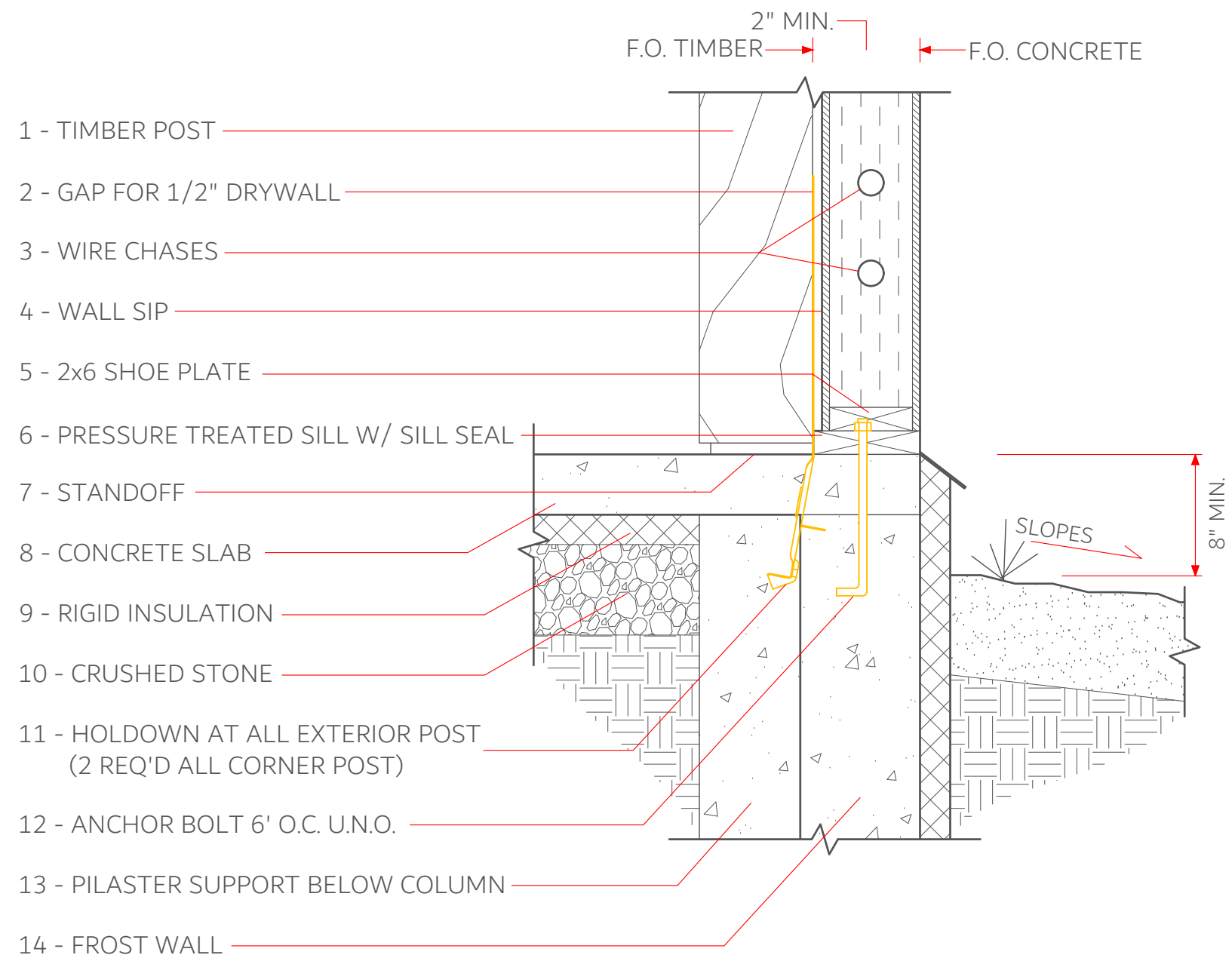
## TYPICAL: SLAB AT FROST WALL

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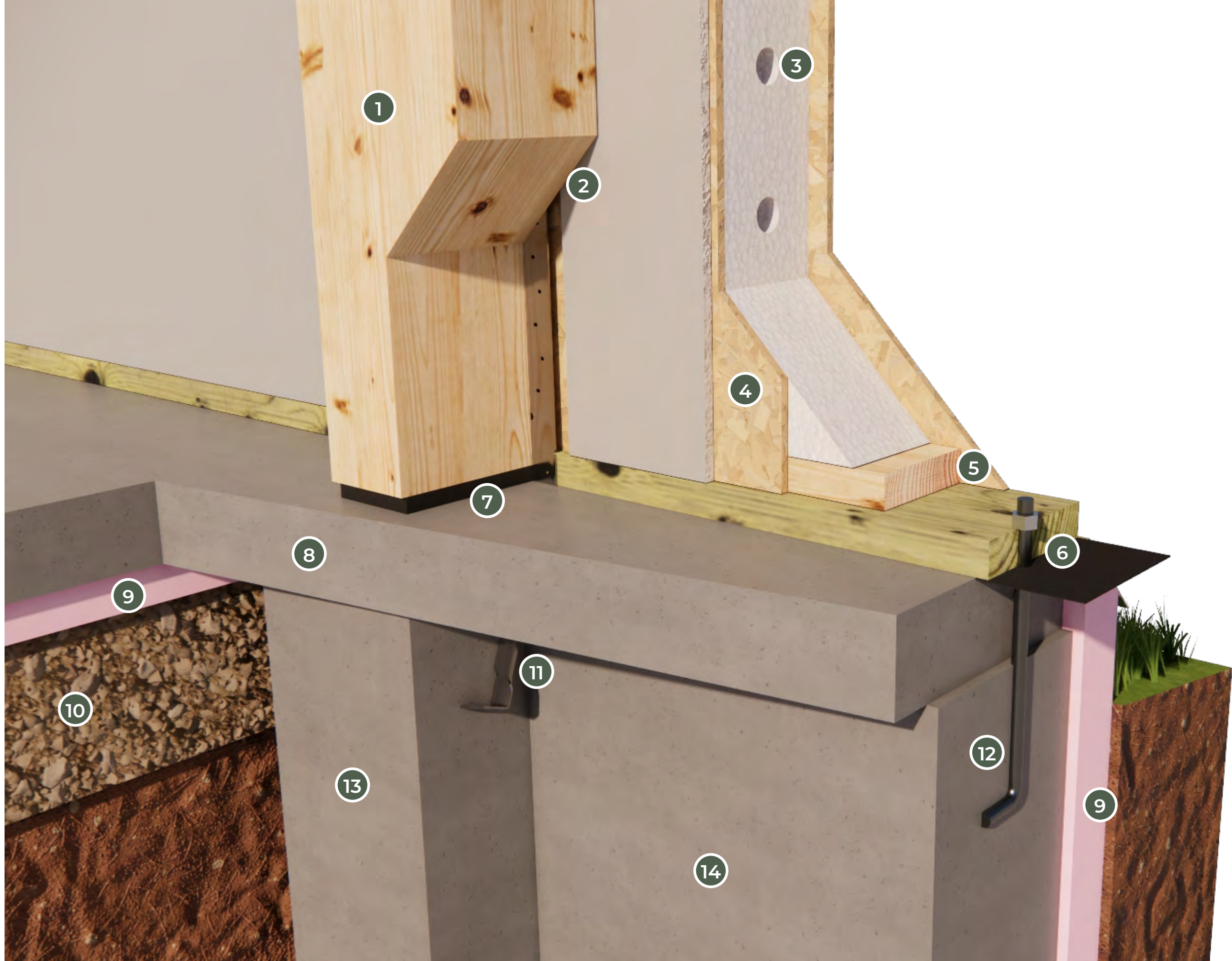
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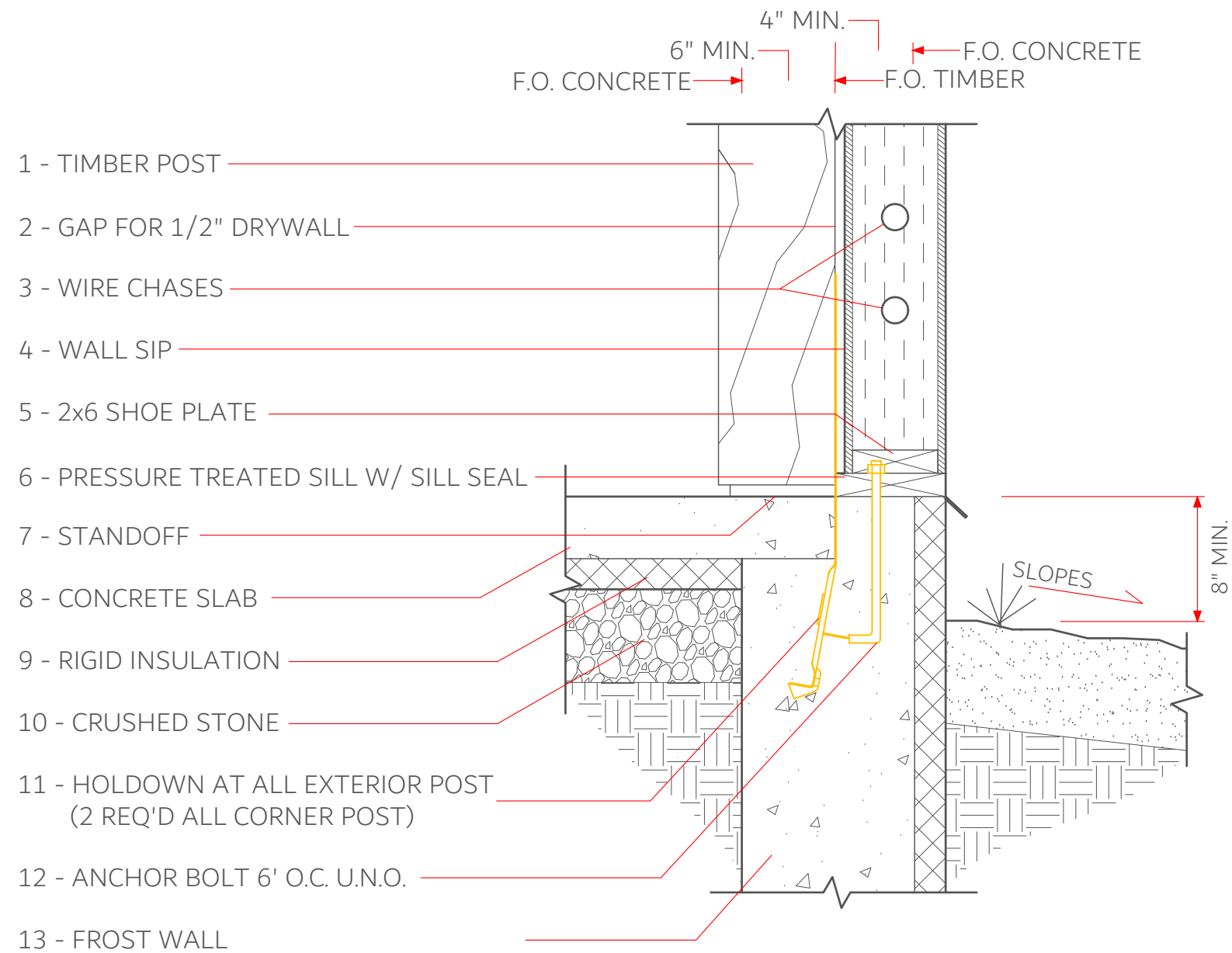
## TYPICAL: SLAB OVER FROST WALL

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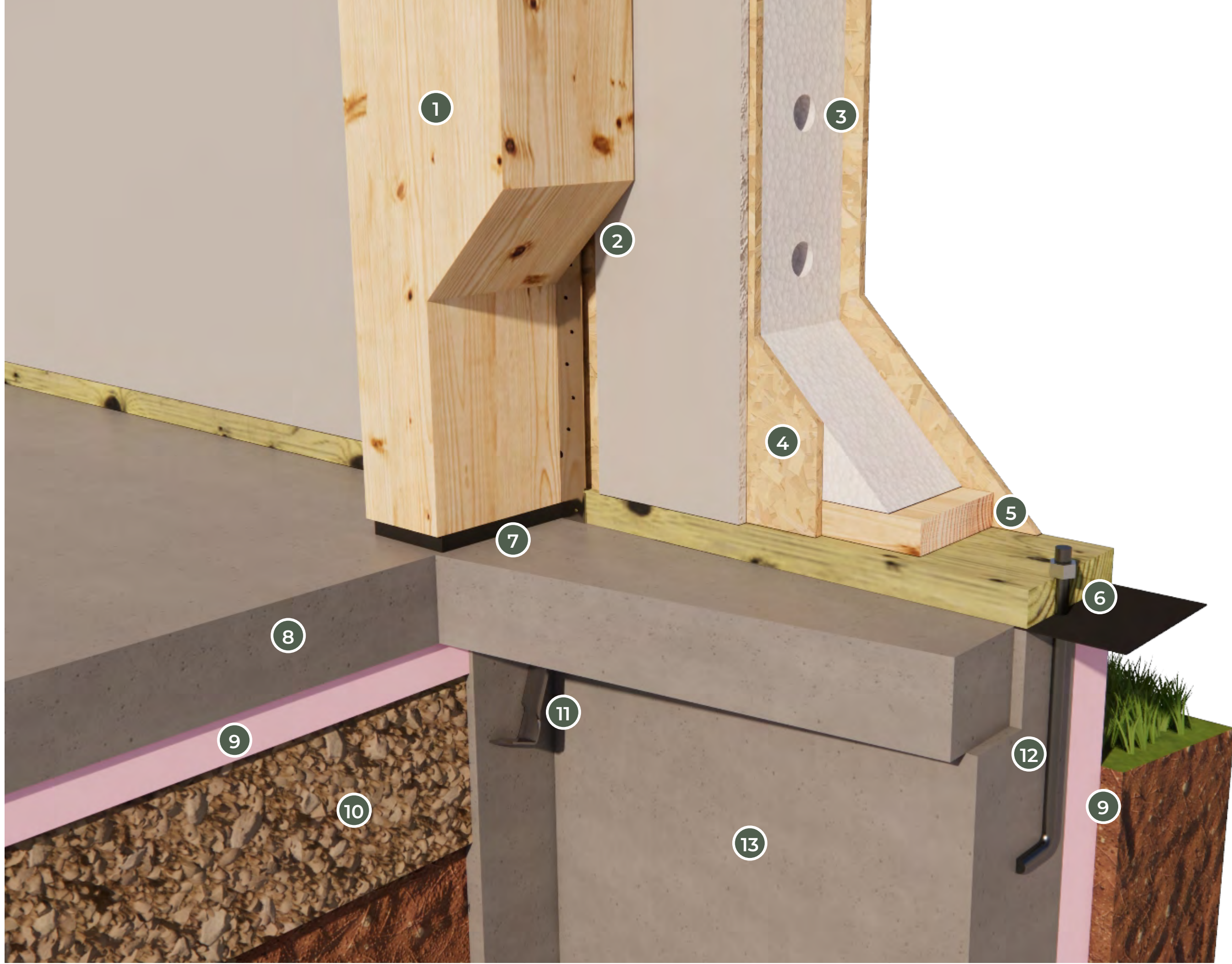
# OPTIONAL: SLAB OVER FROST WALL

FOR REFERENCE PURPOSES ONLY, NOT FOR CONSTRUCTION!



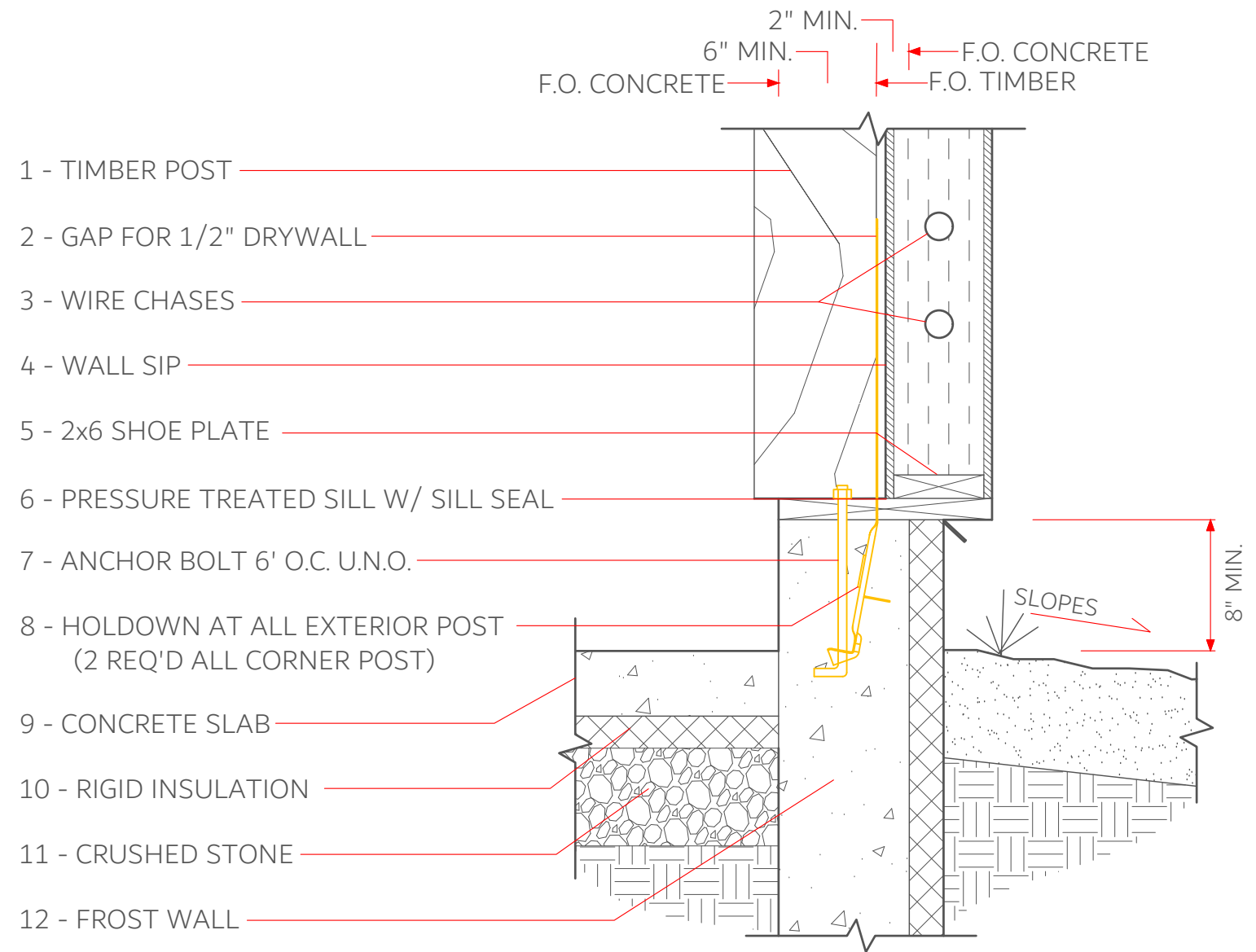
## OPTIONAL: SLAB INTO NOTCHED WALL

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## OPTIONAL: SLAB INTO NOTCHED WALL

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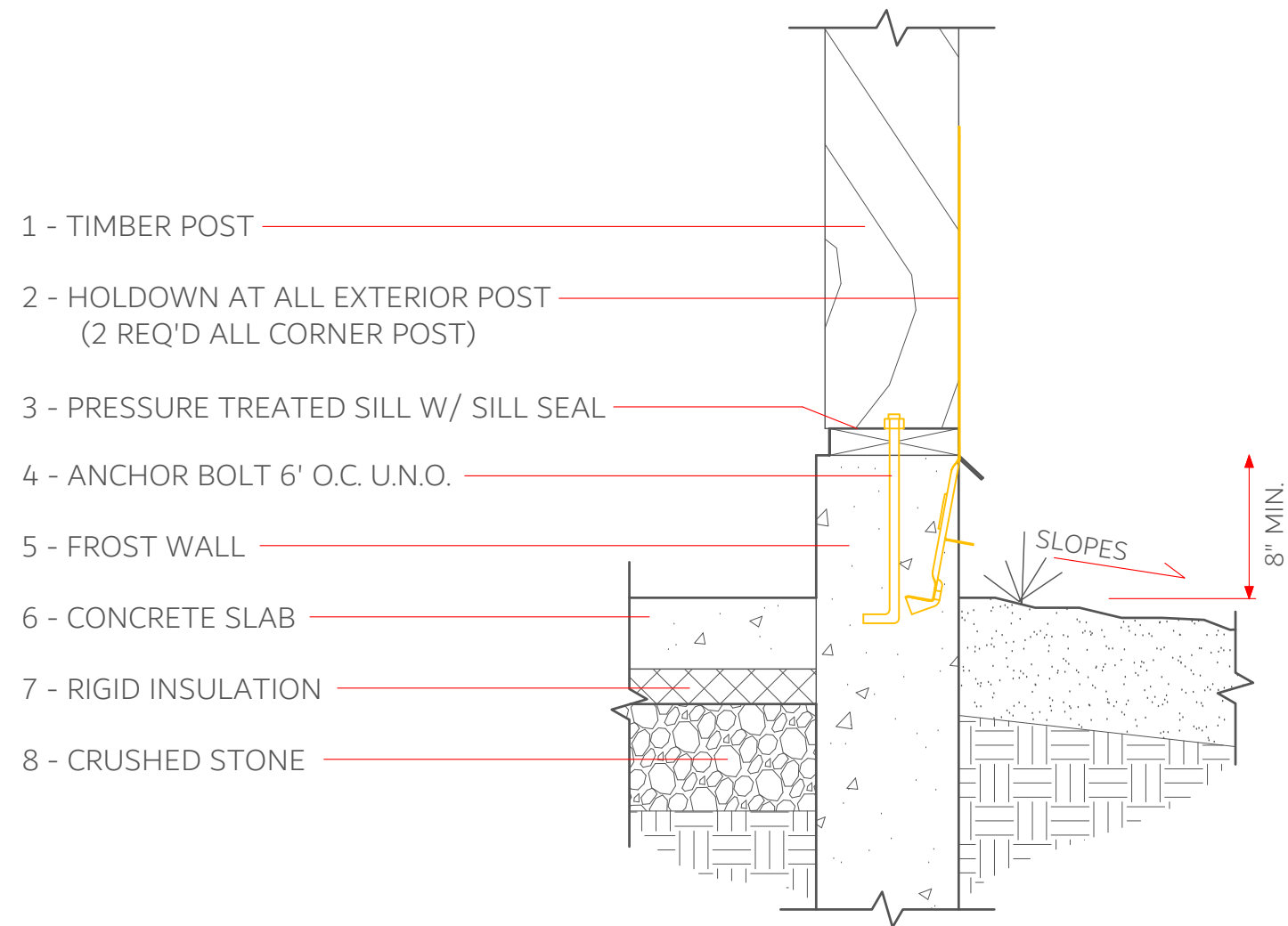
## TYPICAL: SLAB W/ CURB

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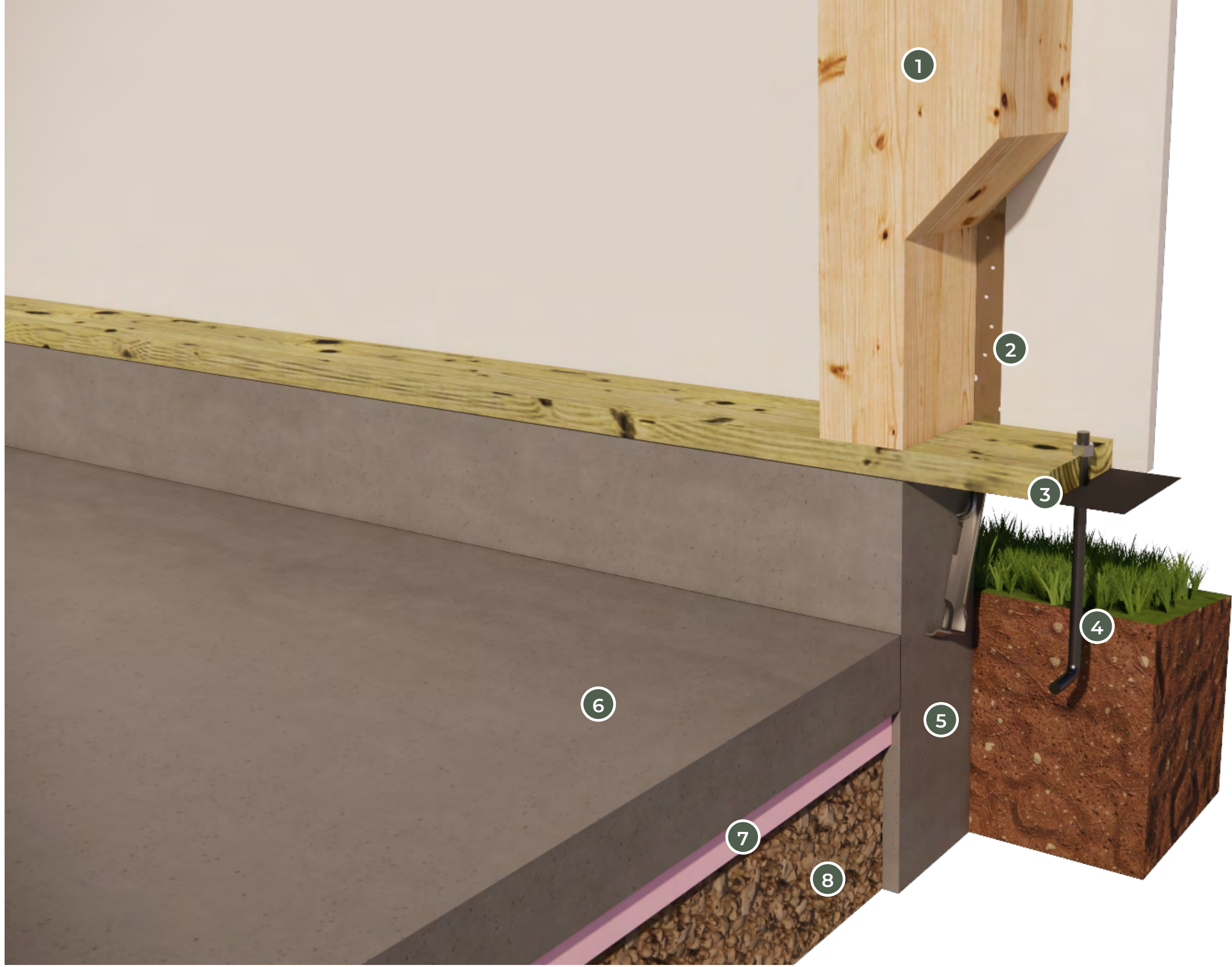
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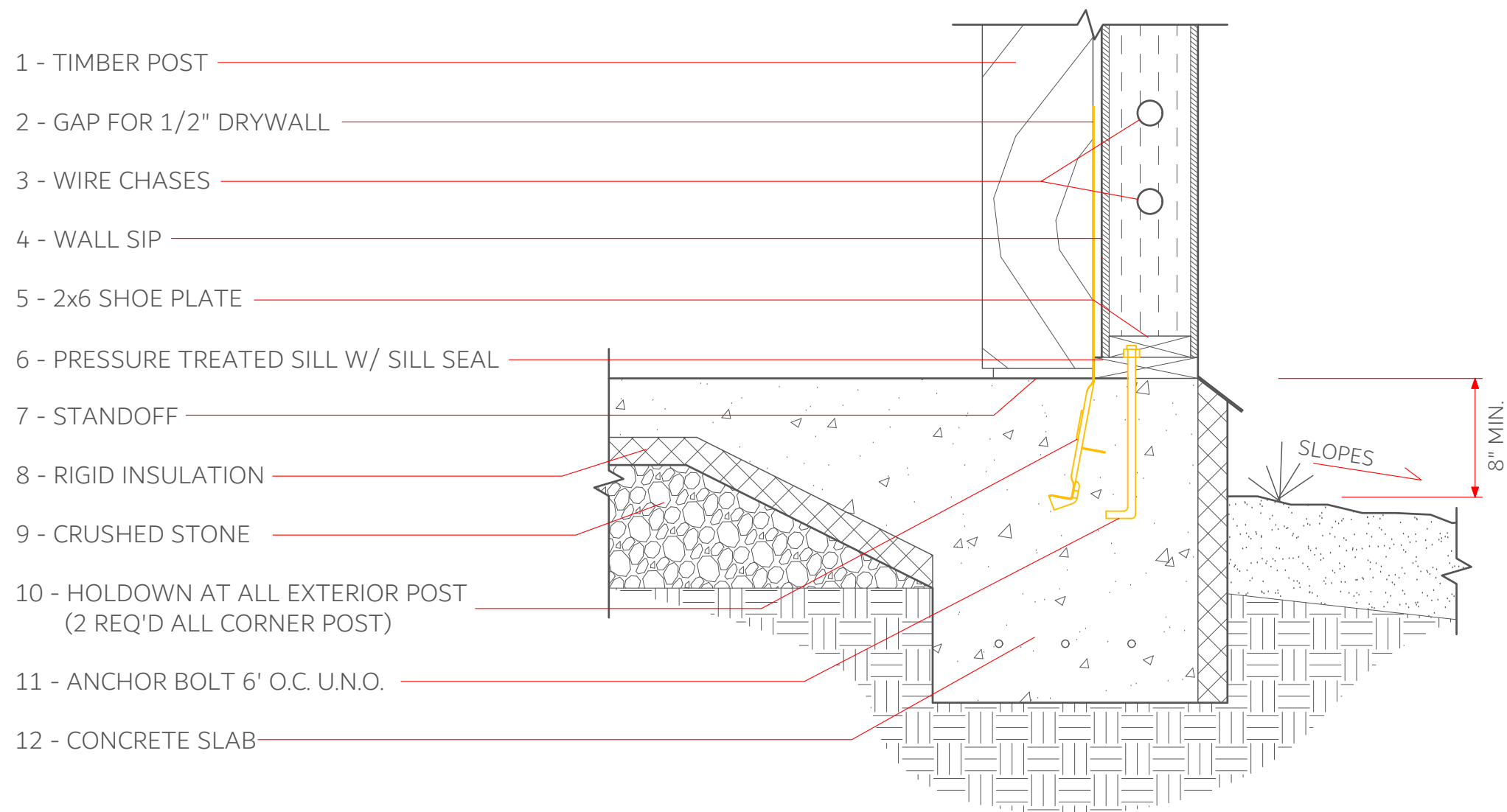
## TYPICAL: SLAB W/ UNINSULATED CURB

FOR REFERENCE PURPOSES ONLY, NOT FOR CONSTRUCTION!



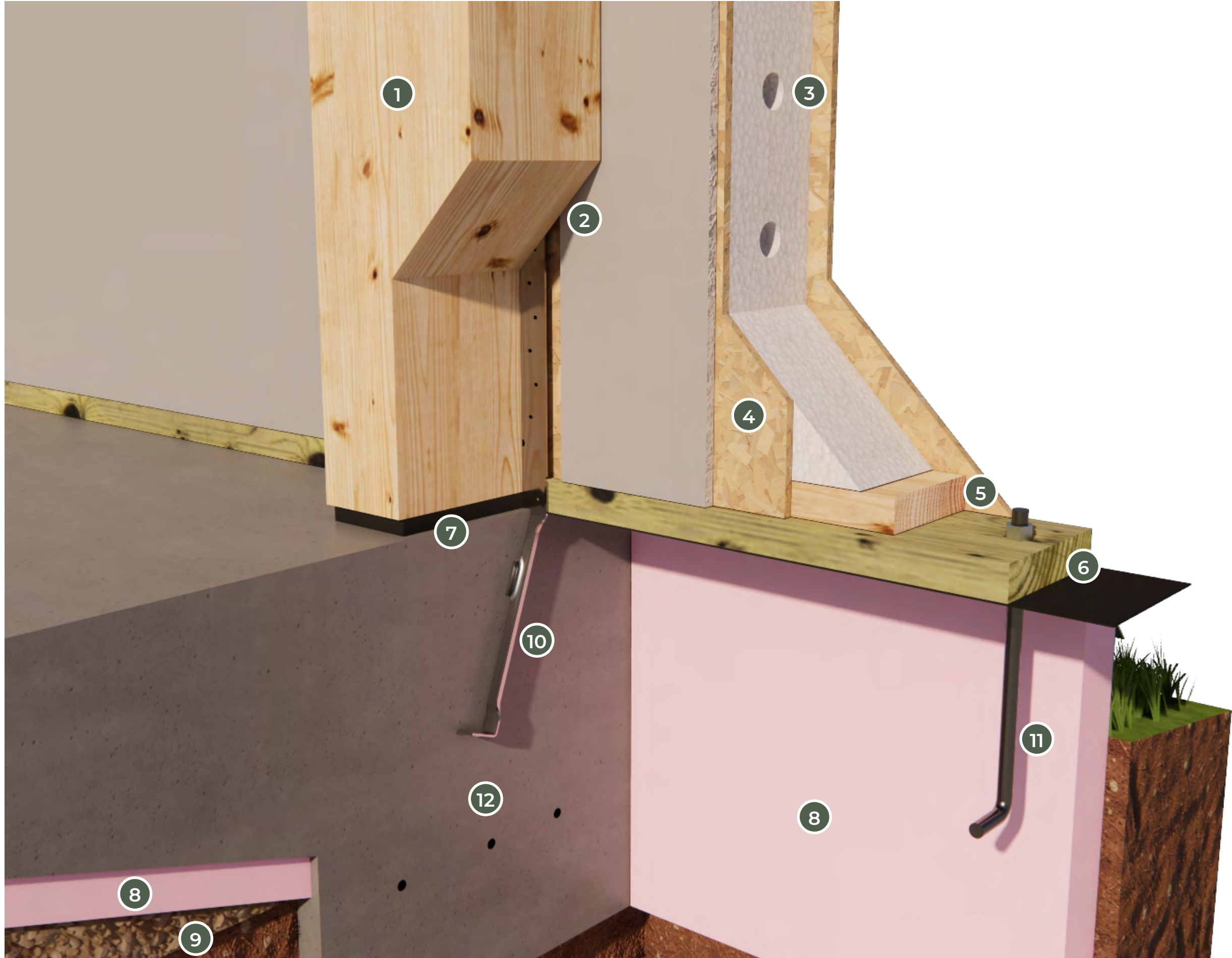
# TYPICAL: SLAB W/ UNINSULATED CURB

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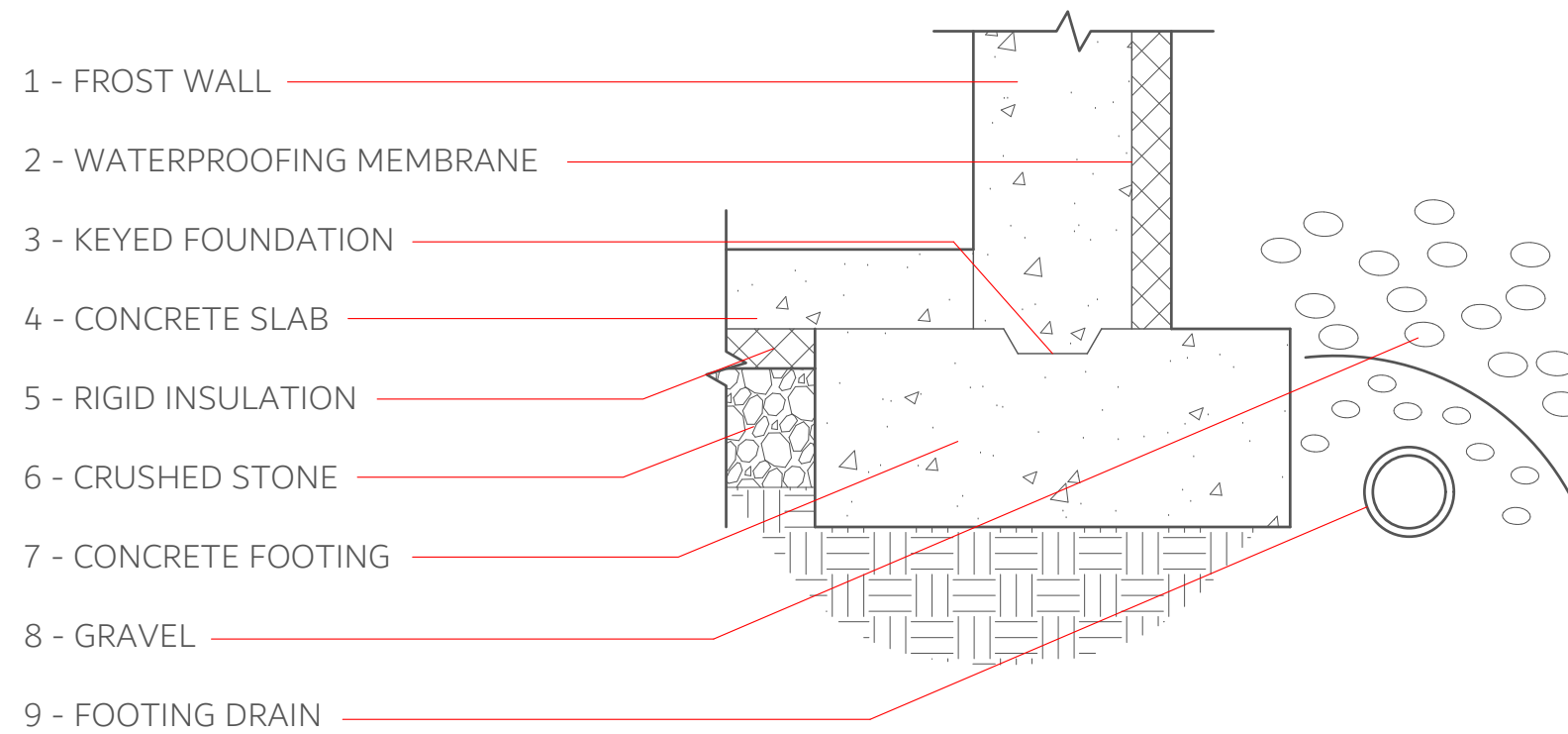
## OPTIONAL: FLOATING SLAB

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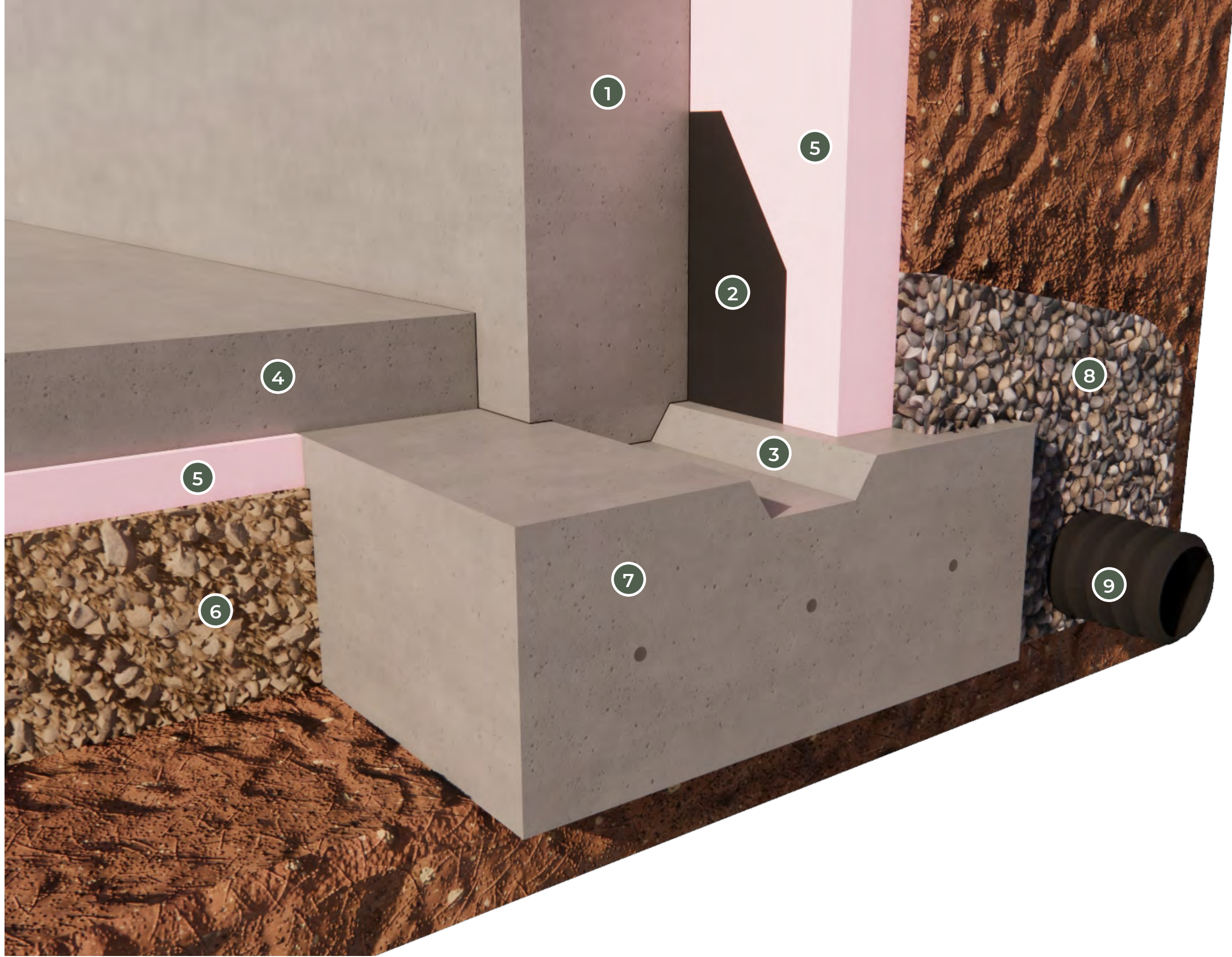
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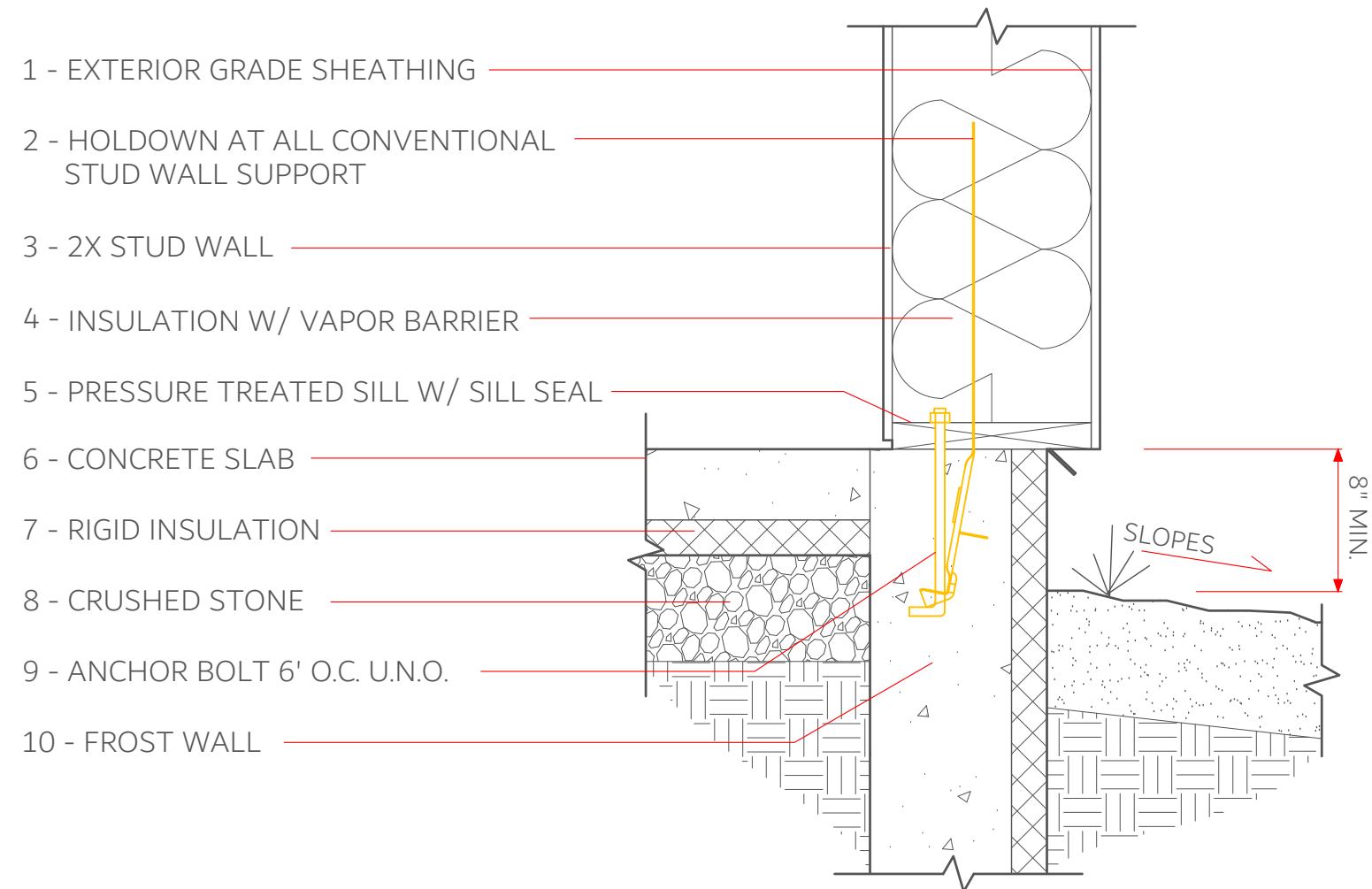


## TYPICAL: FOOTING W/ SLAB

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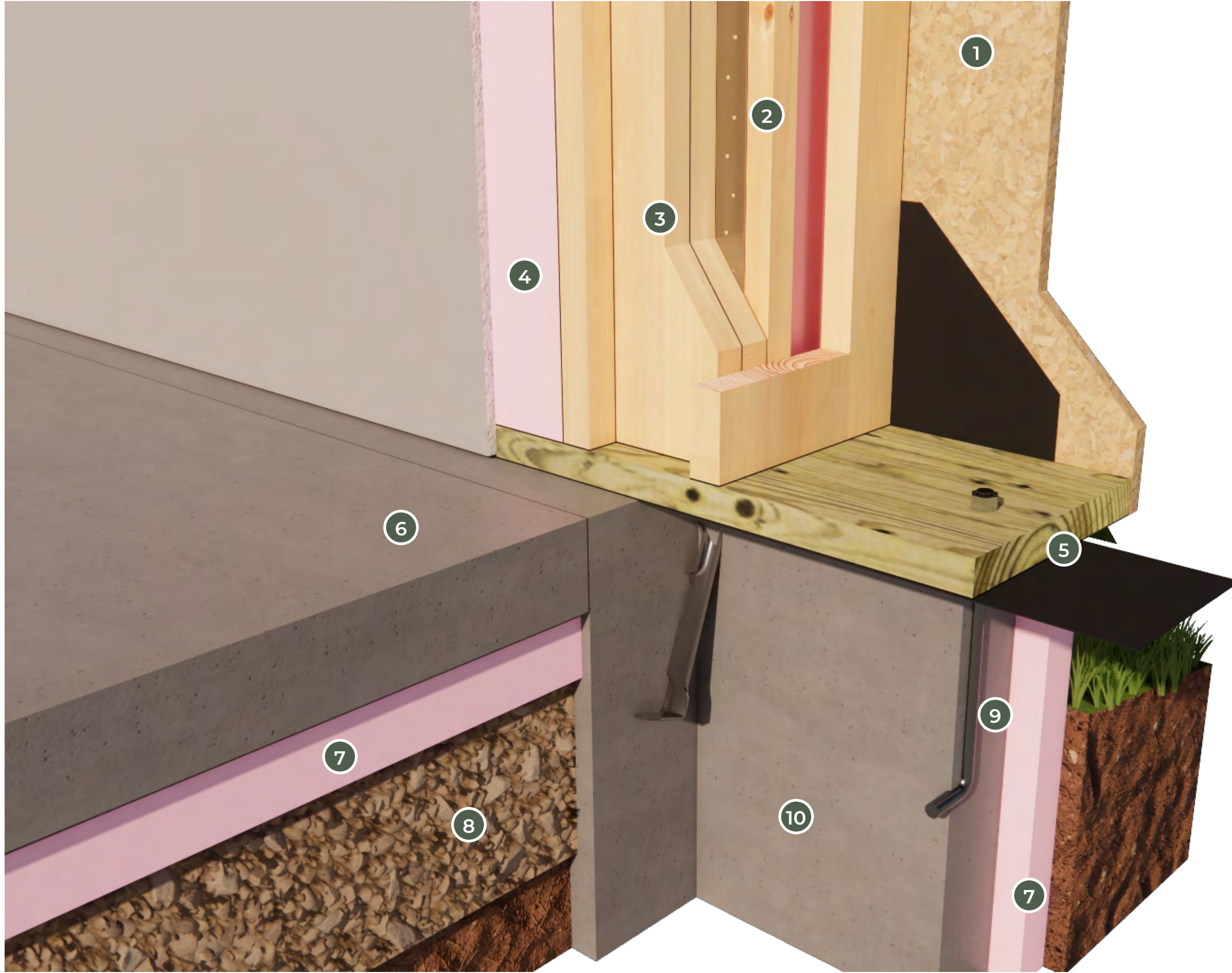


TYPICAL: FOOTING W/ SLAB  
FOR REFERENCE PURPOSES ONLY, NOT FOR CONSTRUCTION!



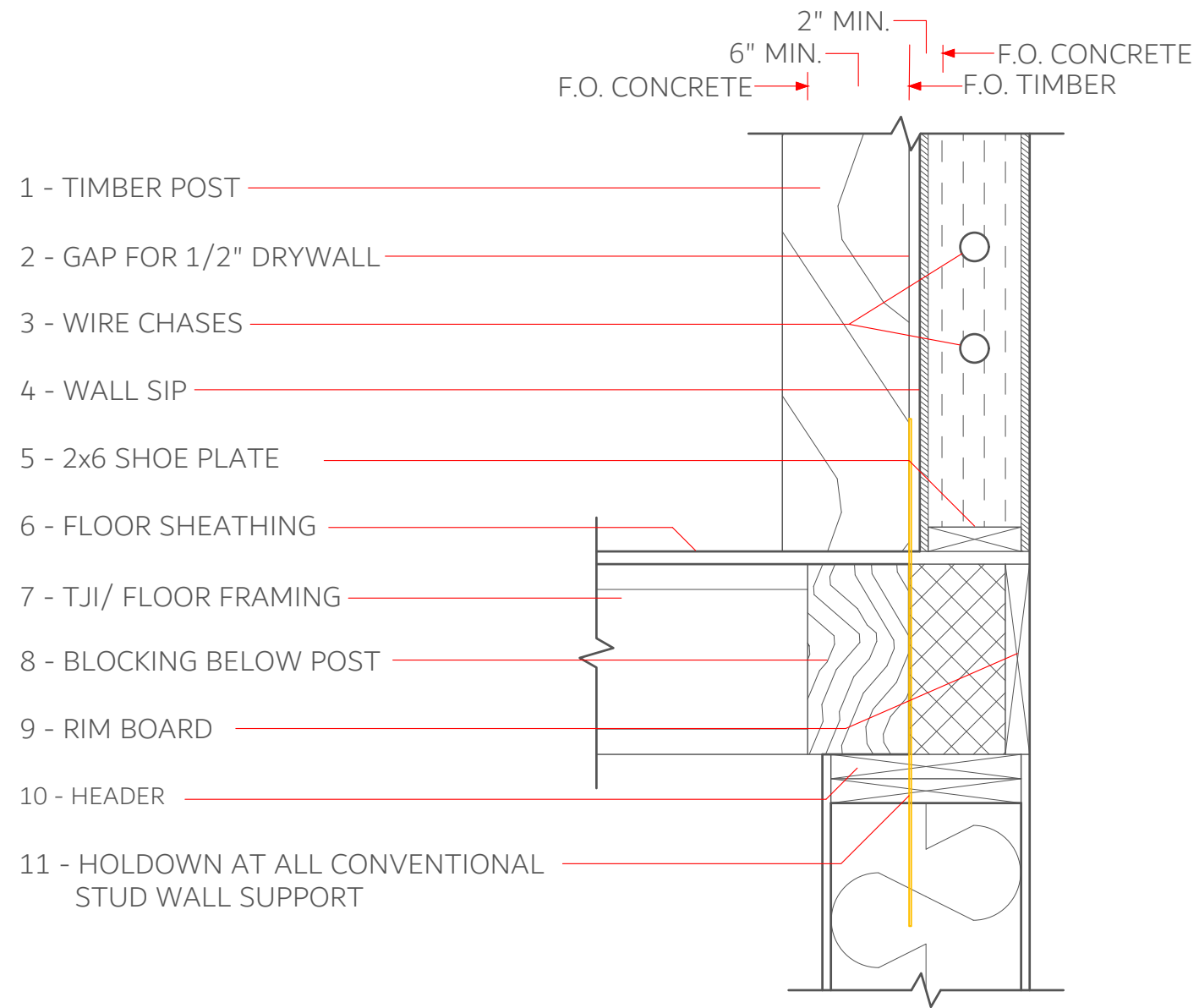
## TYPICAL: WALKOUT PT.1

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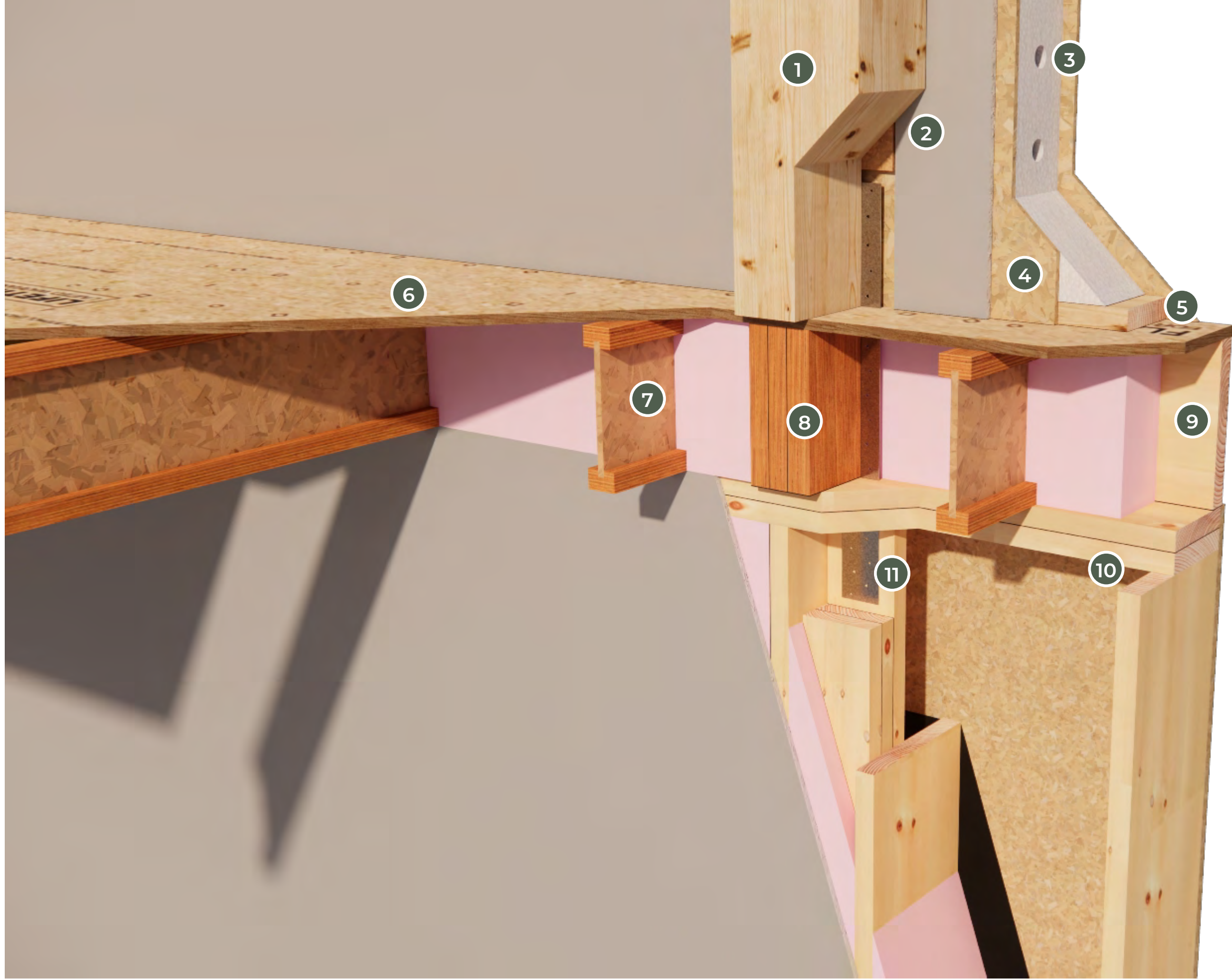
# TYPICAL: WALKOUT PT.1

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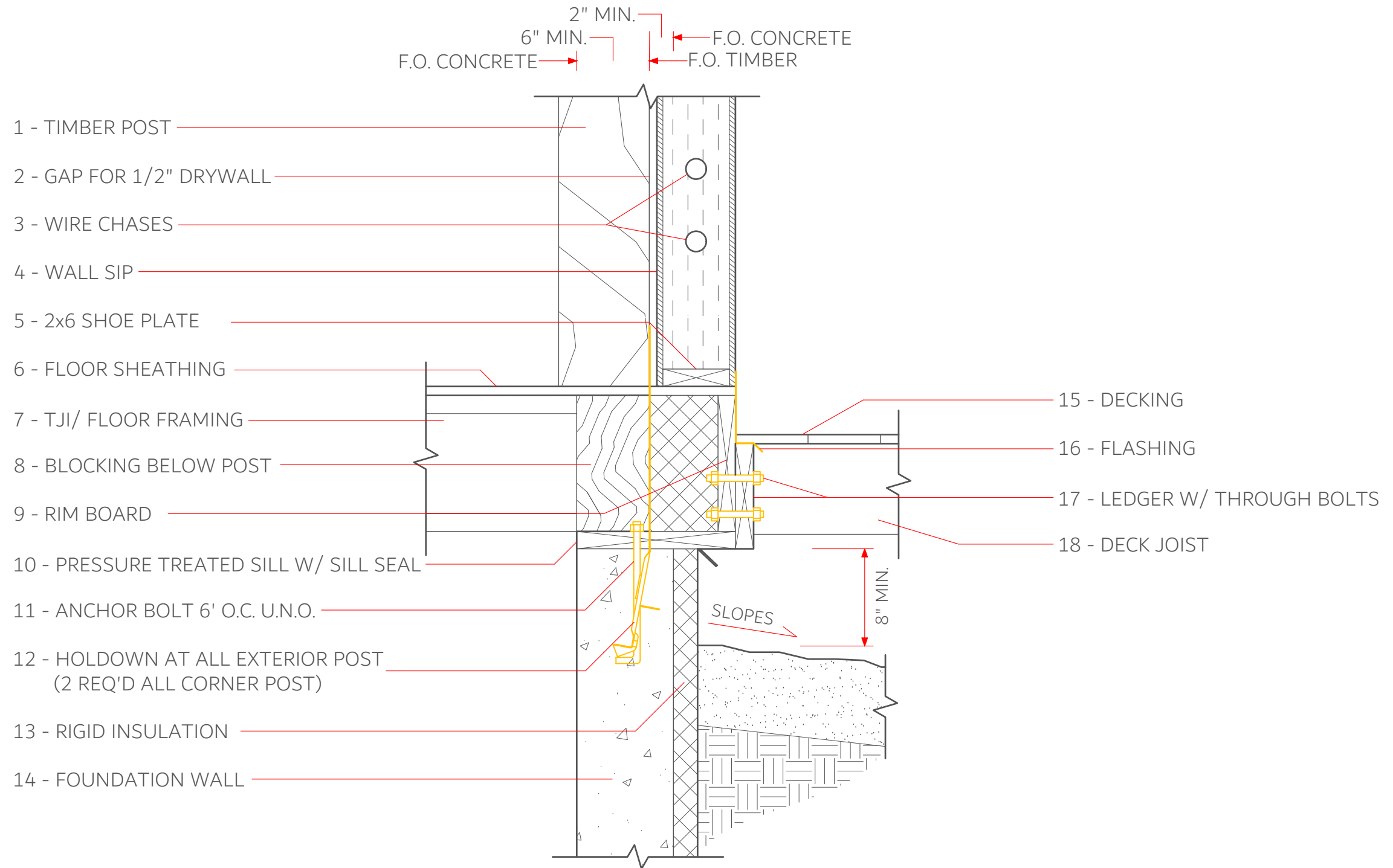
## TYPICAL: WALKOUT PT.2

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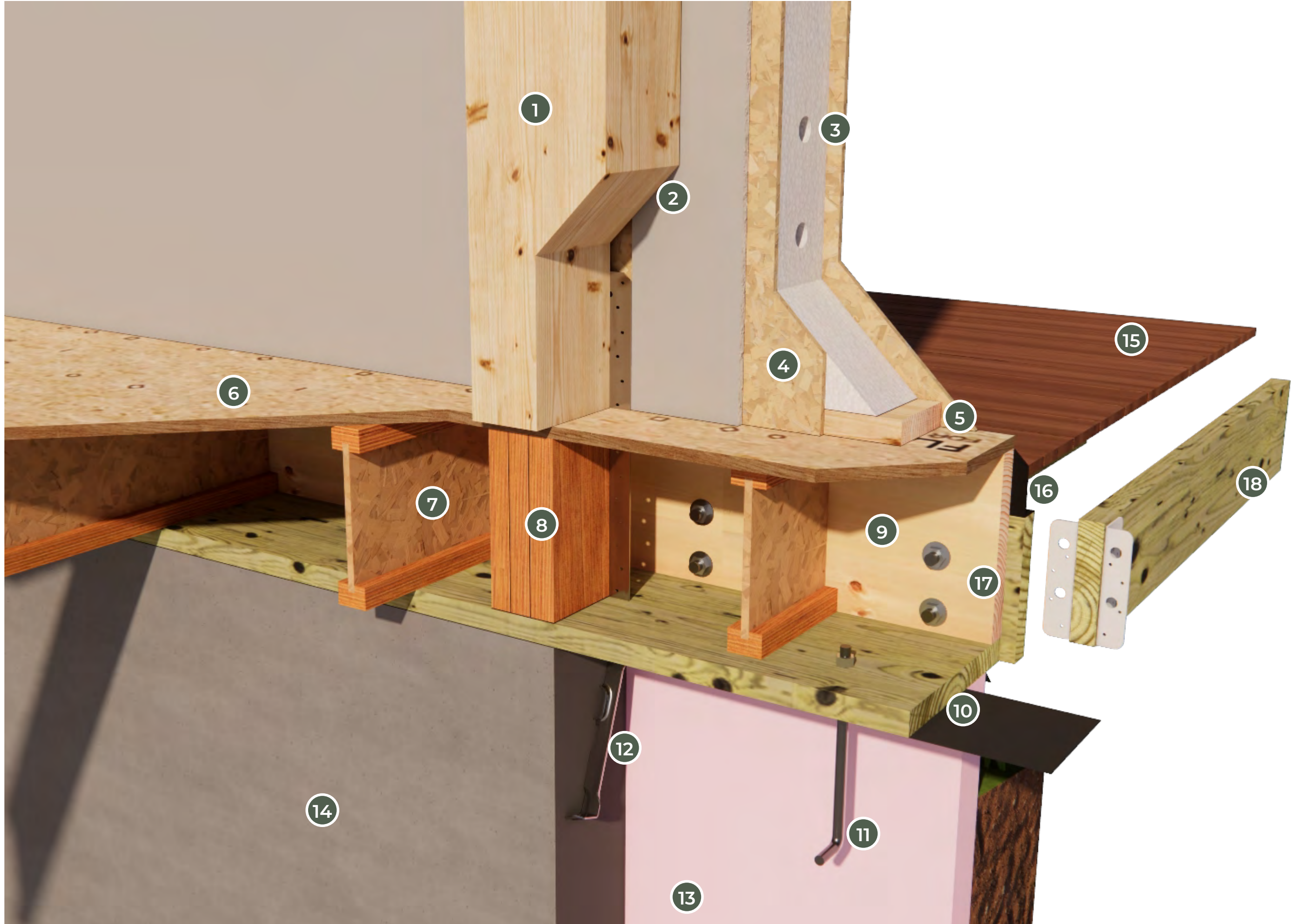
## TYPICAL: WALKOUT PT.2

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## TYPICAL: FRAMED FLOOR W/ DECK

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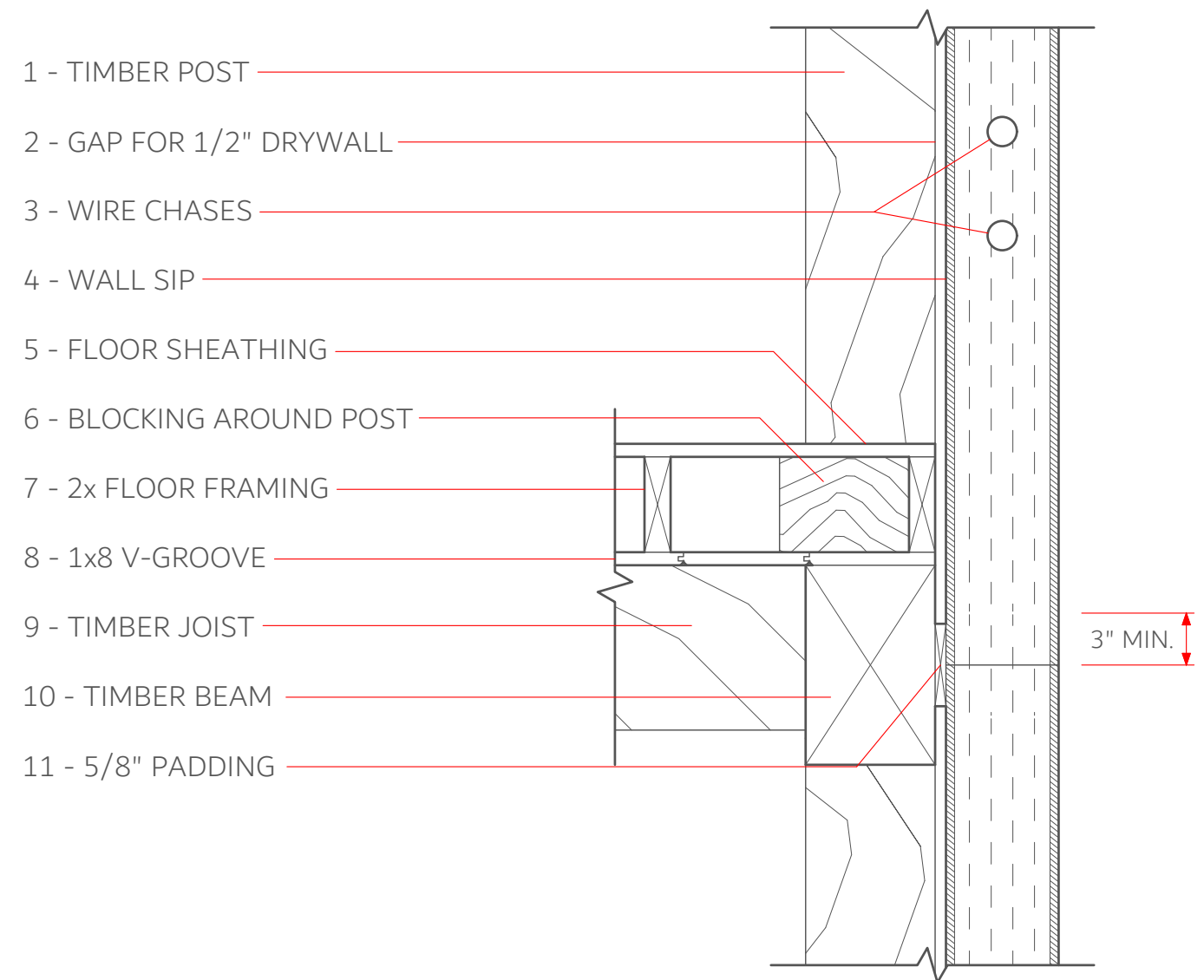


# TYPICAL: FRAMED FLOOR W/ DECK

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# SECOND FLOOR



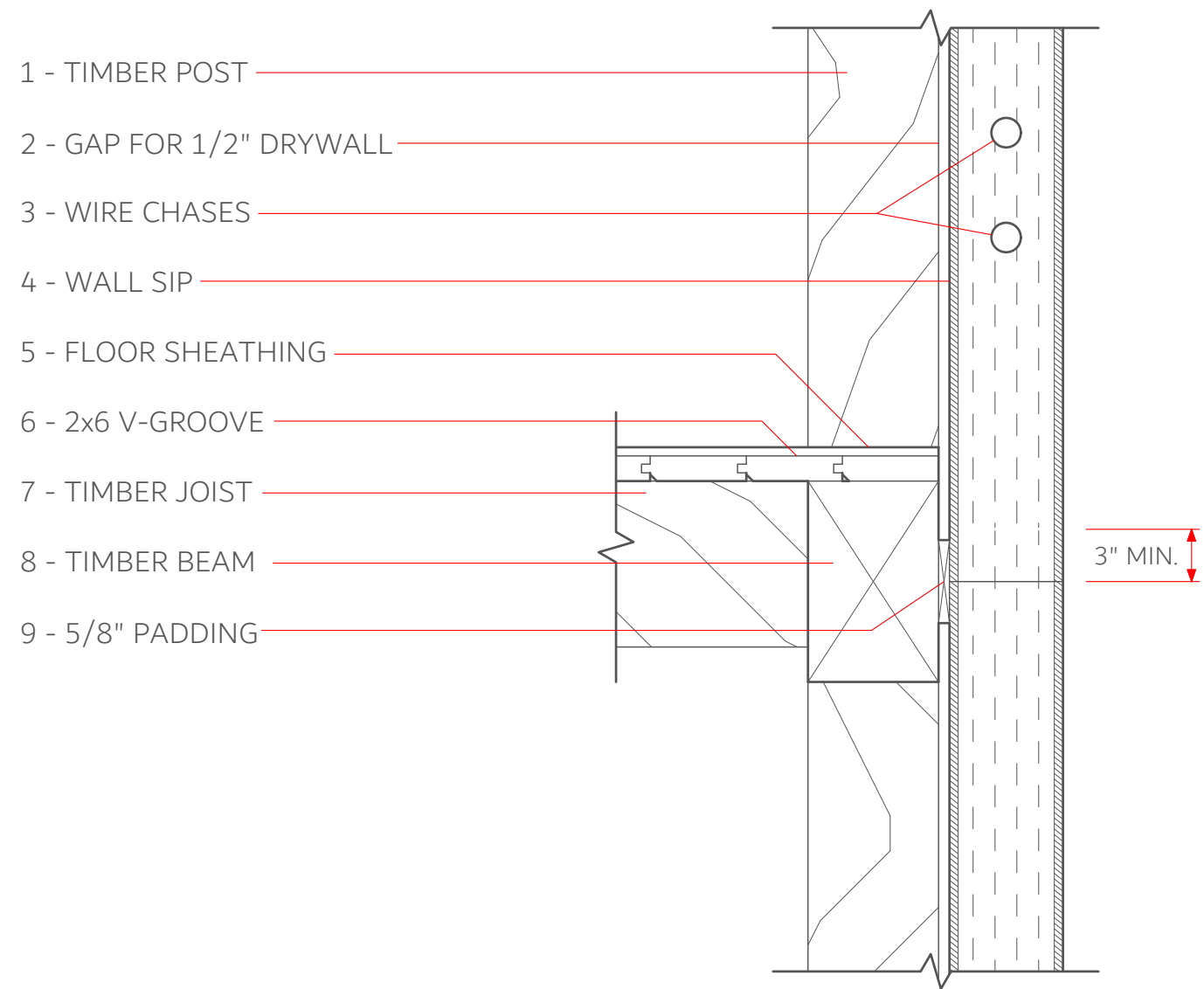
## TYPICAL: BUILT UP FLOOR

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## TYPICAL: BUILT UP FLOOR

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## TYPICAL: FLOOR W/OUT CAVITY

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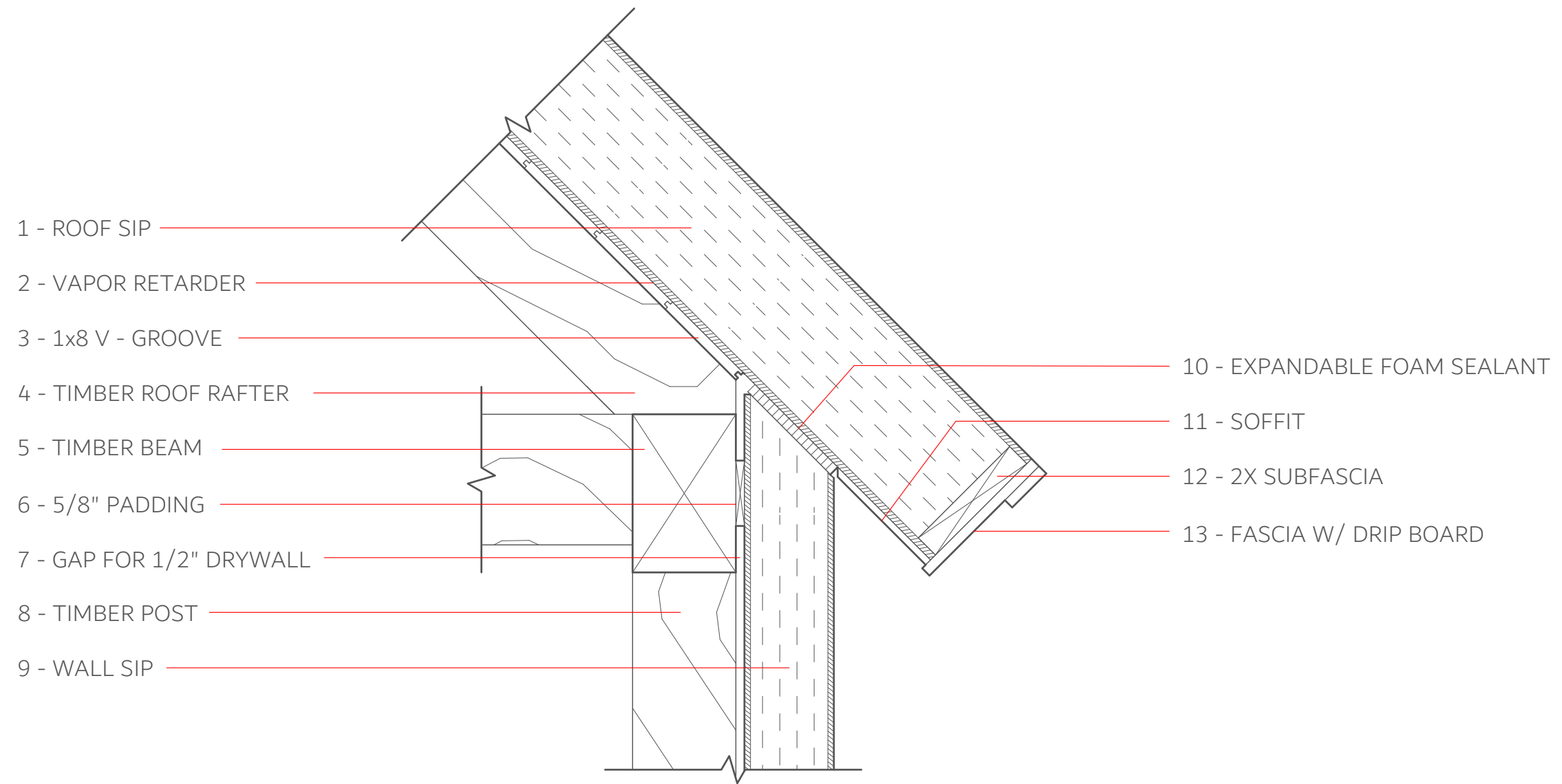


# TYPICAL: FLOOR W/O CAVITY

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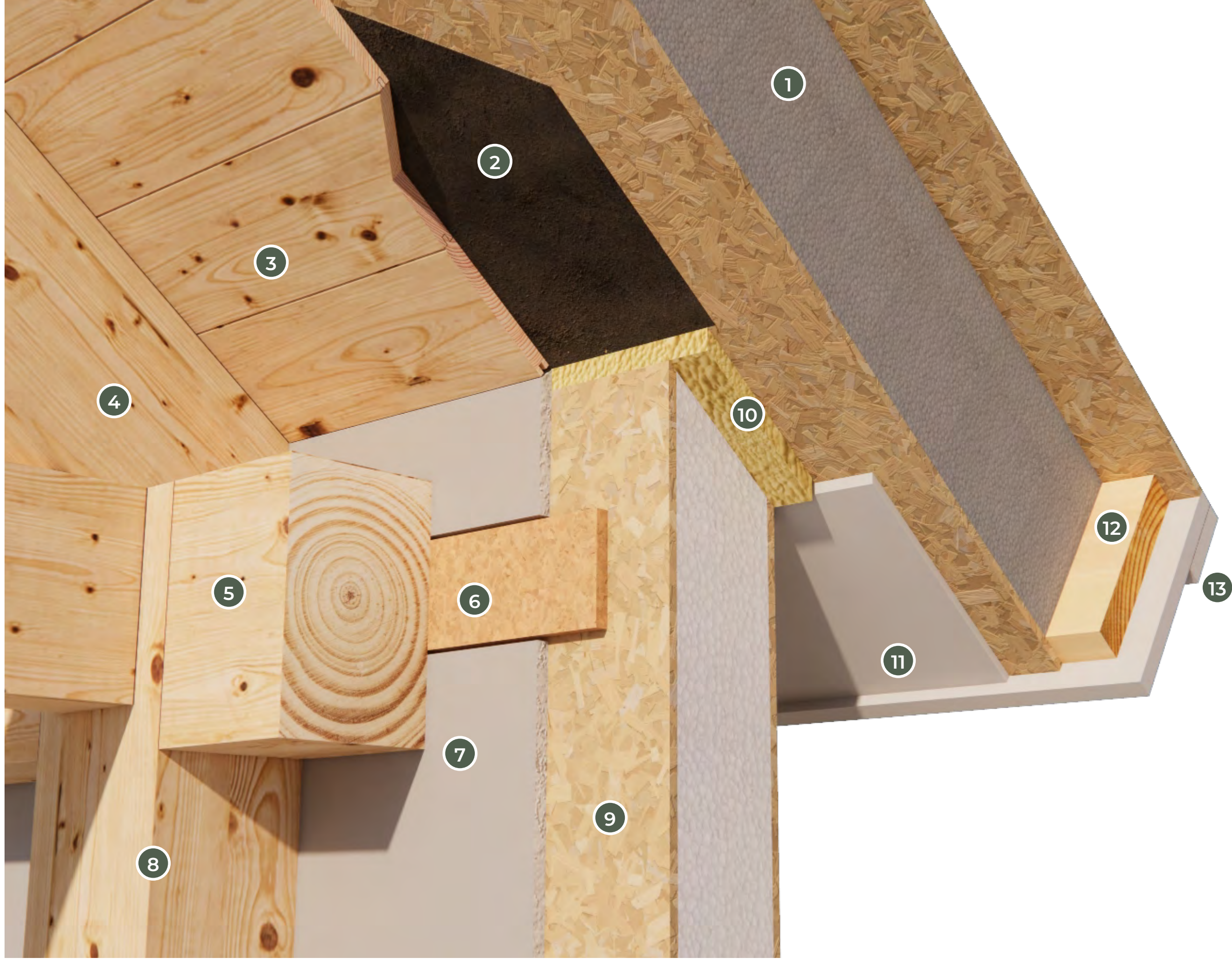


# EAVES



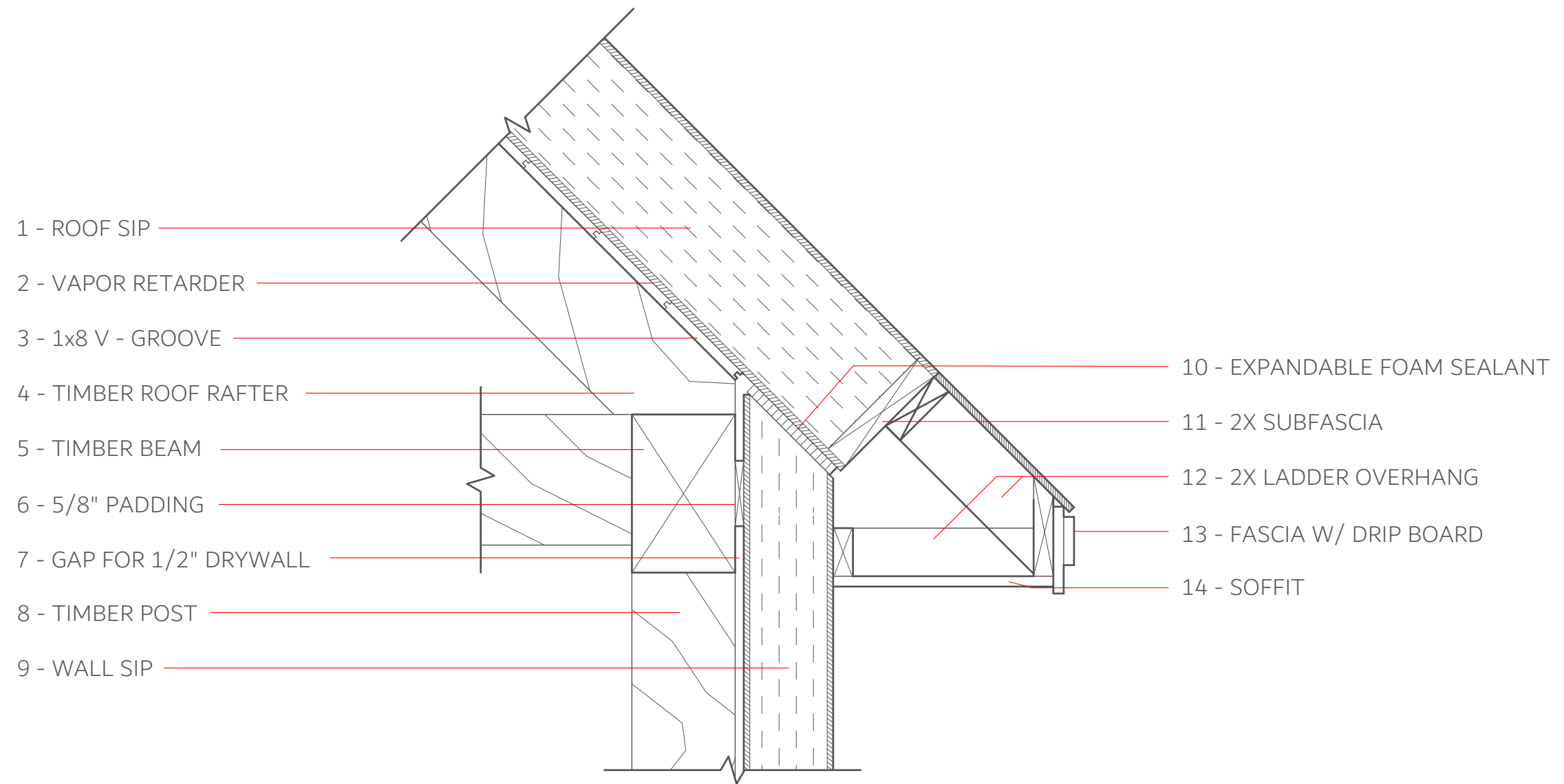
## TYPICAL: SQUARE FASCIA

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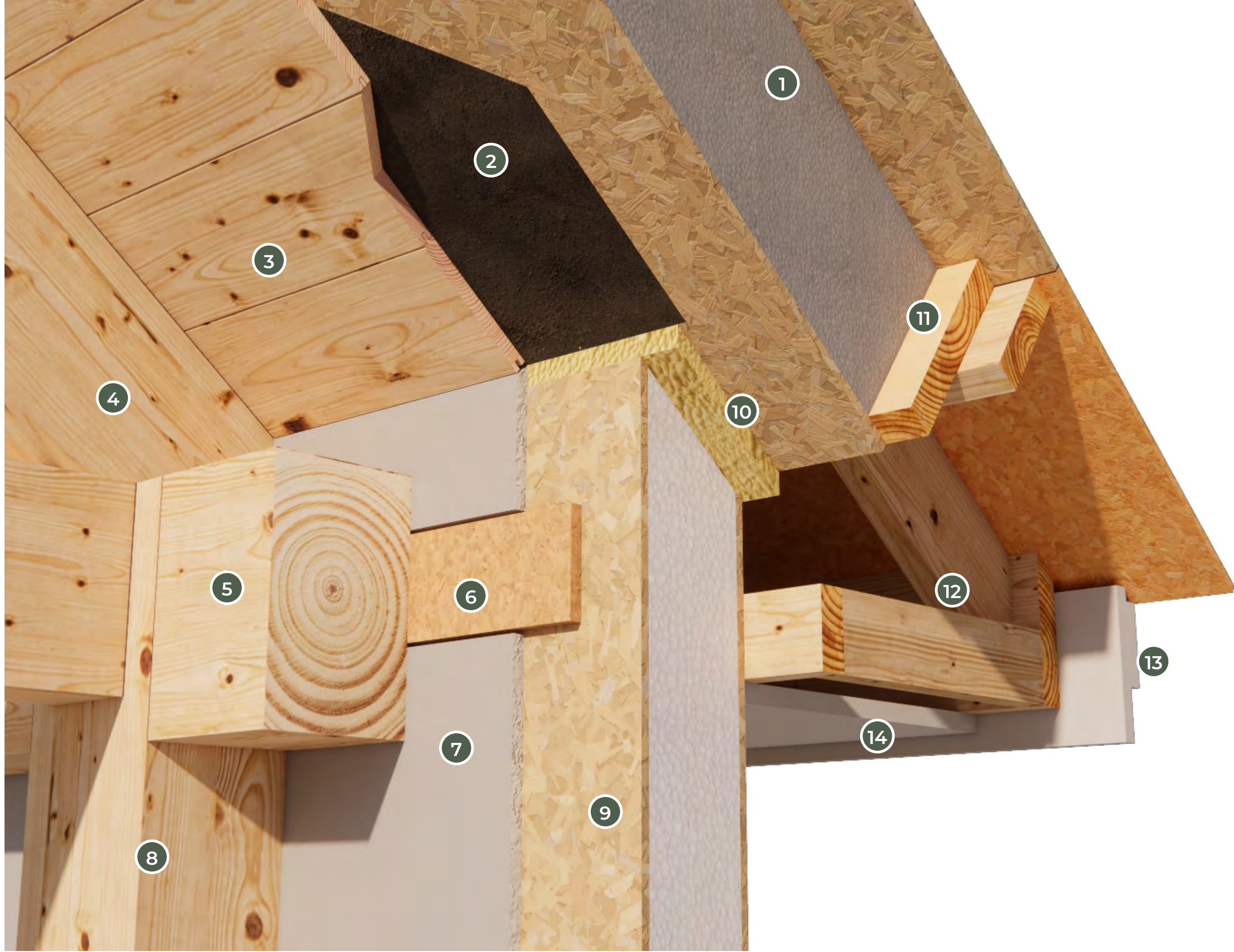
## TYPICAL: SQUARE FASCIA

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## TYPICAL: FRAMED LADDER OVERHANG

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## TYPICAL: PLUMB FASCIA

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# ELECTRICAL



## SIP WIRING LAYOUTS

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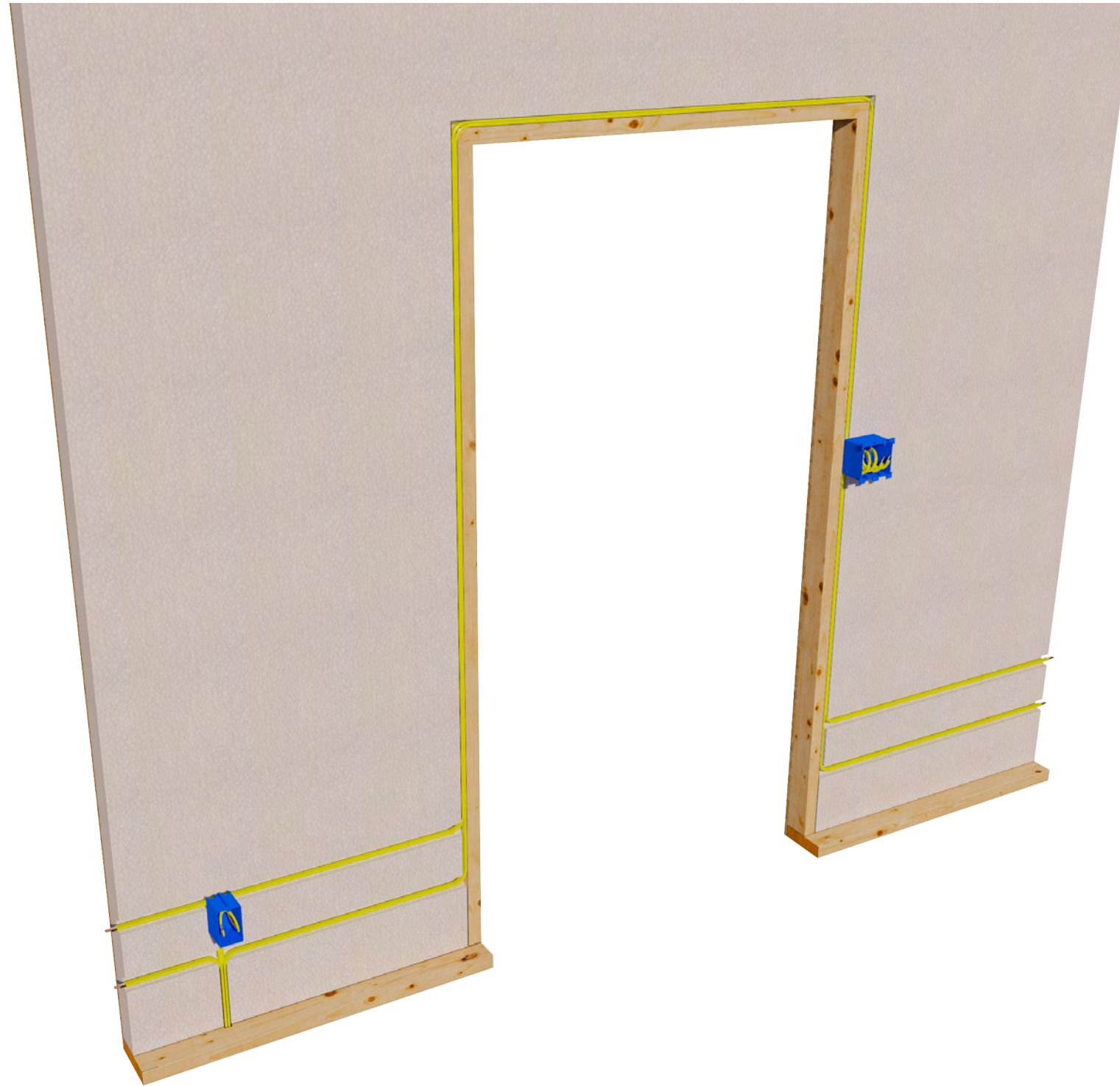
## RIDGE WIRE LAYOUT

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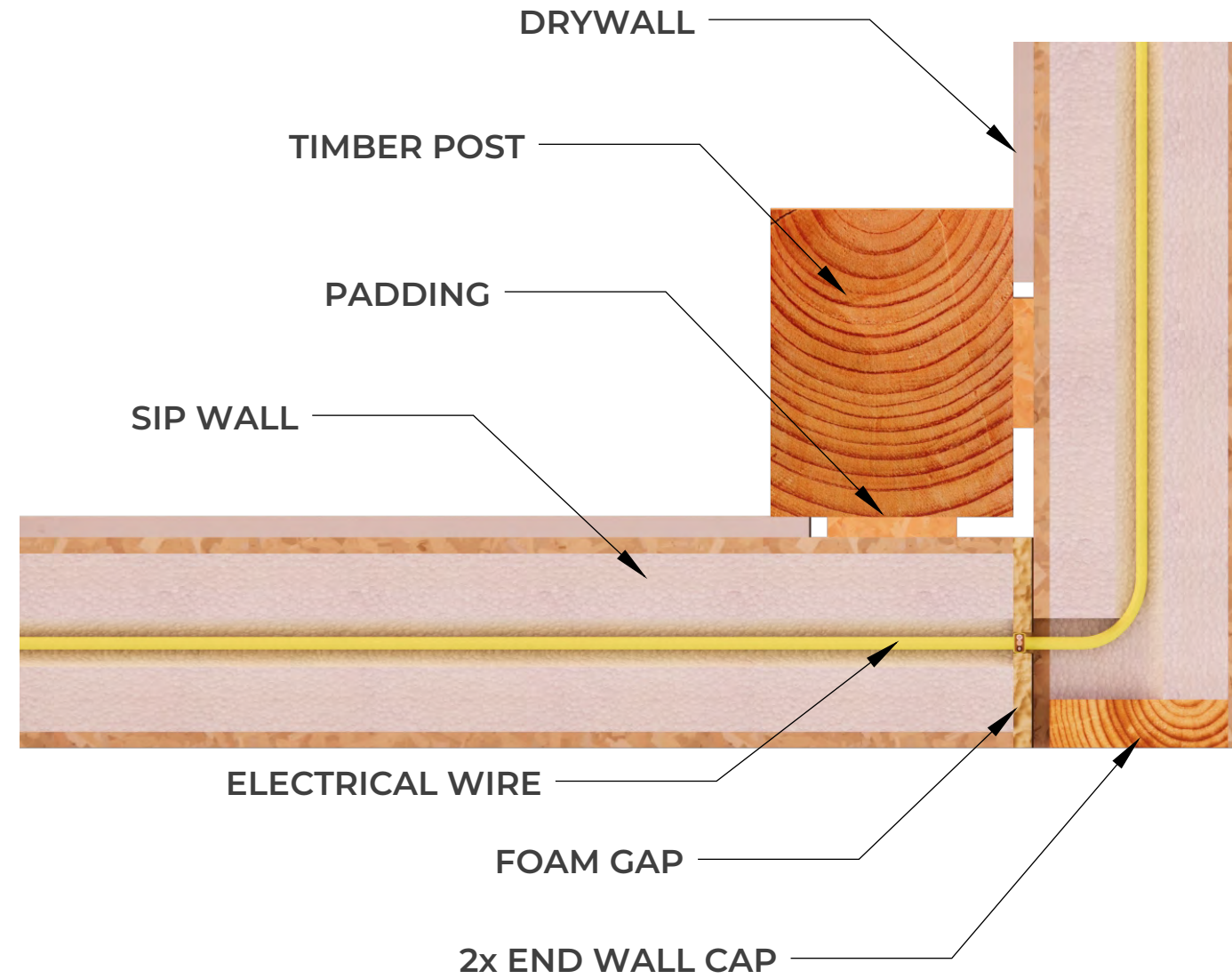
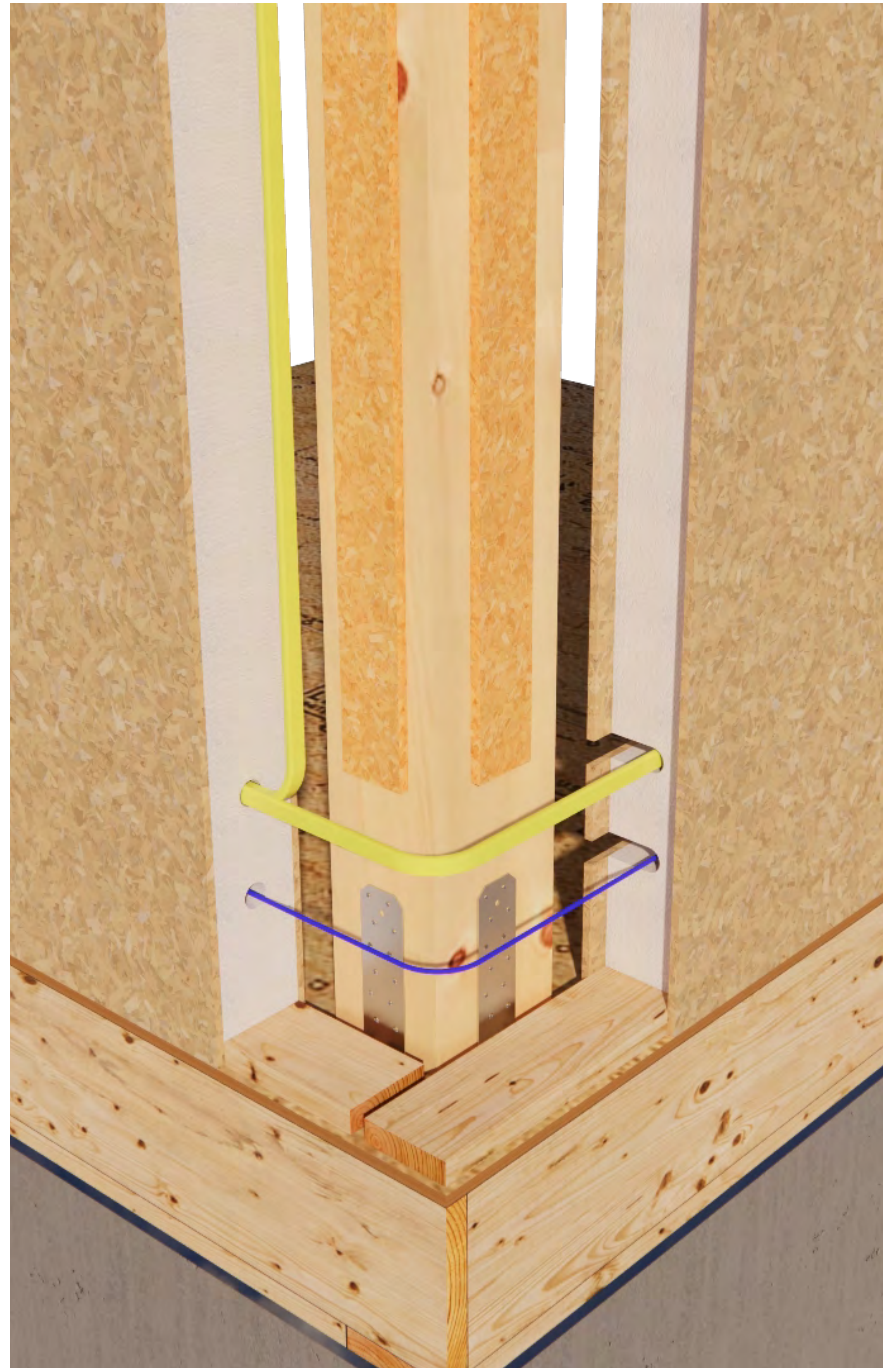
## CEILING WIRE LAYOUT

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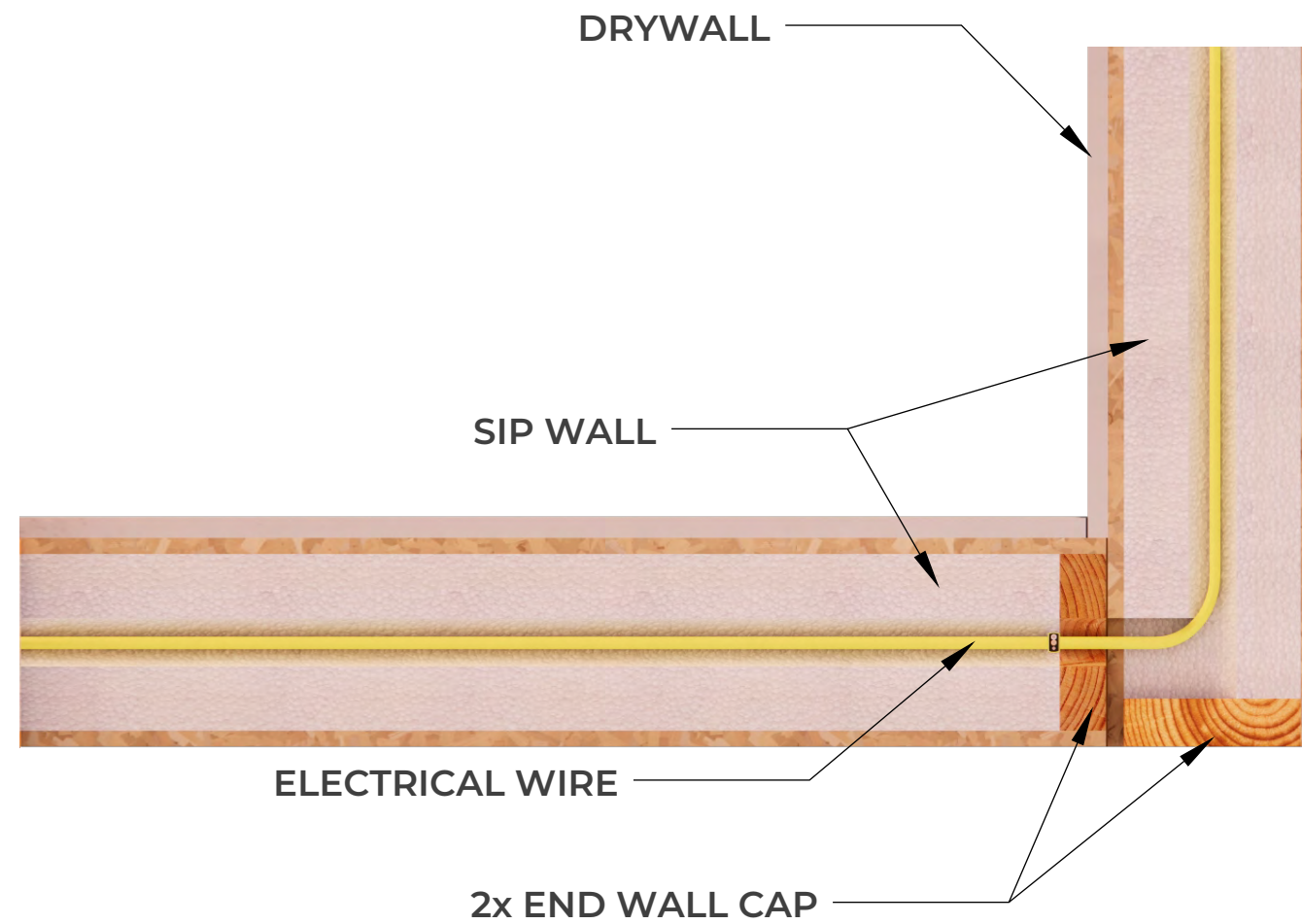
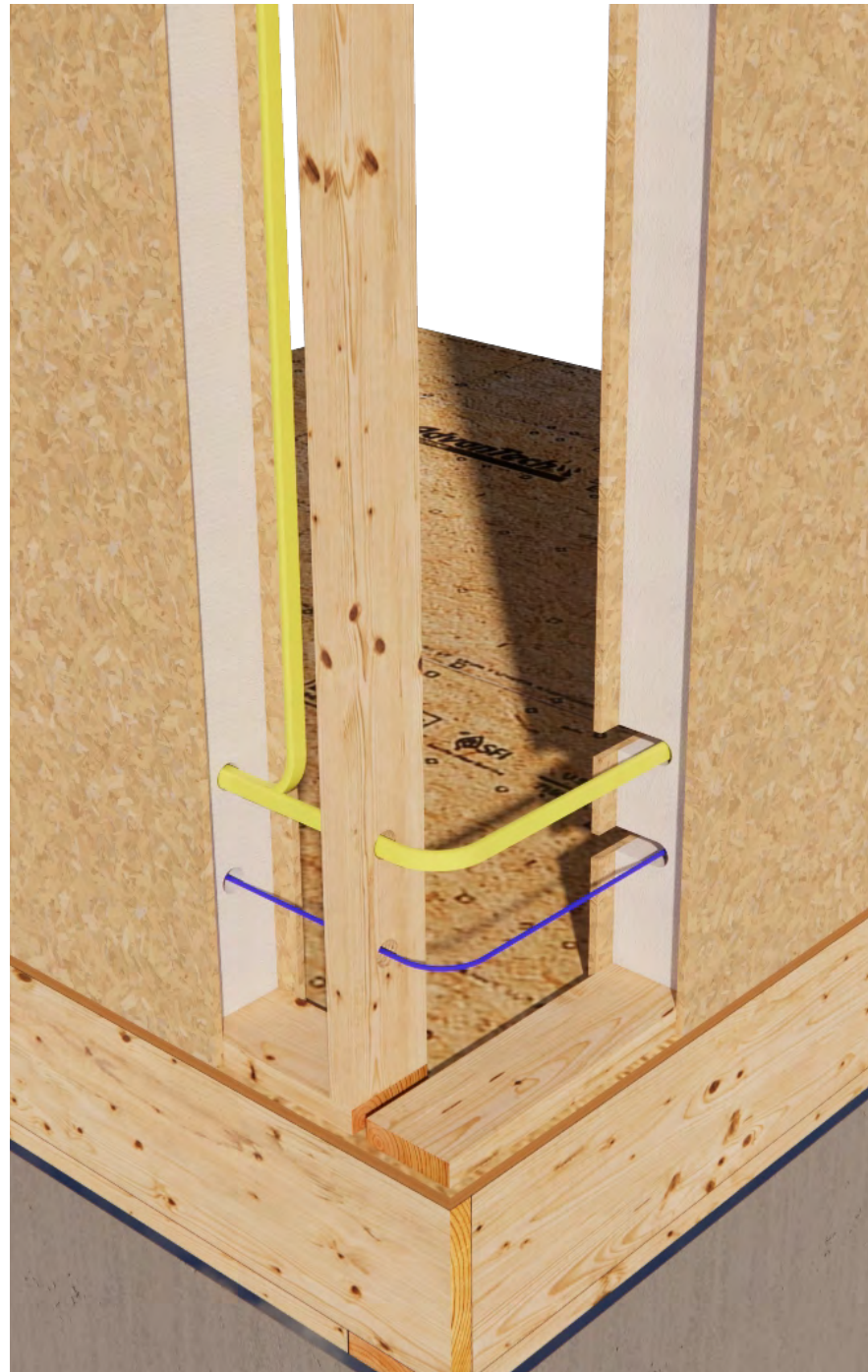
## WIRE ROUTING

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## TIMBER FRAME CORNER DETAIL

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## STRUCTURAL PANEL CORNER DETAIL

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