

# 2026 TIMBER-STRONG DESIGN BUILD STRUCTURAL PLAN SET

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TIMBER-STRONG COMPETITION PANEL

SUBMITTED: 20 FEB 2026  
REVISED: 06 MAR 2026 (REVISION 1)

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PROJECT: TIMBER STRONG DESIGN-BUILD COMPETITION  
COVER SHEET

DATE: 06 MAR 2026 BY: ZFT  
DUE: 06 MAR 2026  
REVISION: 1  
DRAWING: CVR  
SCALE: 1/8" = 1'-0"  
PAGE: 1 OF 12

| GENERAL STRUCTURAL NOTES |  |
|--------------------------|--|
| GENERAL                  |  |
| 1                        | ALL MEMBERS TO BE GRADE 2 DOUGLAS FIR-LARCH UNO  |
| 2                        | ALL SHEATHING TO BE 32/16 SPAN RATED 15/32" PLYWOOD UNO  |
| CONNECTORS               |  |
| 1                        | THE PILOT HOLE FOR LAG SCREW SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK |
| 2                        | THE PILOT HOLE FOR THE LAG SCREW THREADED PORTION SHALL HAVE A DIAMETER OF 3/8" AND A MAXIMUM DEPTH BEYOND THE HEAD OF 6"                        |
| 3                        | REFER TO MFR INSTRUCTIONS FOR HARDWARE INSTALLATION  |
| TENSION STRAPS           |  |
| 1                        | APPLY TENSION STRAPS BETWEEN LEVELS PER STRAPPING DETAILS ON PAGE 11   |

| ABBREVIATIONS  |                        |
|----------------|------------------------|
| b <sub>w</sub> | SHEAR WALL BASE WIDTH  |
| CL             | CENTER LINE            |
| CLR            | CLEAR                  |
| DF             | DOUGLAS FIR-LARCH      |
| HF             | HEM-FIR                |
| OPP            | OPPOSITE               |
| MFR            | MANUFACTURER           |
| OPP            | OPPOSITE               |
| SIM            | SIMILAR                |
| SPEC           | SPECIFICATION          |
| SW             | SHEAR WALL             |
| TYP            | TYPICAL                |
| UNO            | UNLESS NOTED OTHERWISE |

| DIAPHRAGM SCHEDULE <sup>(1)</sup> |                |                       |           |                |                 |
|-----------------------------------|----------------|-----------------------|-----------|----------------|-----------------|
| ID                                | SHEATHING      | SHEATHING SPAN RATING | FASTENERS | EDGE FASTENING | FIELD FASTENING |
| ROOF                              | 15/32" PLYWOOD | 32/16                 | WSV134S   | 6"             | 12"             |
| FLOOR                             | 15/32" PLYWOOD | 32/16                 | WSV134S   | 6"             | 12"             |

1. EDGE DISTANCE IS 3/8" MIN UNO

| HEADER SCHEDULE |               |                            |                            |   |
|-----------------|---------------|----------------------------|----------------------------|---|
| ID              | DESCRIPTION   | JACK STUD(S)               | KING STUD(S)               | NOTES   |
| H1              | (1) 2X6 DF #2 | (1) 2X4 DF #2              | (1) 2X4 DF #2              | FASTEN TO H3 PER DETAILS; FASTEN OTHER END PER FASTENER SCHEDULE          |
| H2              | (2) 2X4 DF #2 | (1) 2X4 DF #2              | SEE WALL 5 FRAMING PLAN    | LAMINATE AND FASTEN PER FASTENER SCHEDULE                                 |
| H3              | (2) 2X6 DF #2 | SEE WALL 3&4 FRAMING PLANS | SEE WALL 3&4 FRAMING PLANS | CONTINUOUS CANTILEVERED HEADER; LAMINATE AND FASTEN PER FASTENER SCHEDULE |
| H4              | (1) 2X4 DF #2 | N/A                        | (1) 2X4 DF #2              | FLAT HEADER; FASTEN TO KINGS PER FASTENER SCHEDULE                        |

| FASTENER SCHEDULE                                     |                 |               |     |  |
|---|-----------------|---------------|-----|--|
| CONNECTION LOCATION                                   | CONNECTION TYPE | FASTENER TYPE | QTY | SPACING/NOTES  |
| ROOF  |                 |               |     |  |
| BLOCKING TO TRUSS                                     | TOE SCREW       | SD9212        | 2   |  |
| BRACING TO TRUSS BOTTOM CHORD                         | FACE SCREW      | SD9212        | 2   |  |
| WALL  |                 |               |     |  |
| NON-SHEAR WALL SHEATHING                              | FACE SCREW      | WSV134S       |     | 6" EDGE SPACING, 12" FIELD SPACING   |
| PANEL-TO-PANEL ATTACHMENT                             | FACE SCREW      | SD9212        | 2   | OCCURS WHERE PLATES/SILLS LAP AT PANEL CORNERS   |
| STUD OR KING STUD TO TOP/BOTTOM PLATE                 | END SCREW       | SDWS16300     | 2   |  |
| BUILT-UP STUD COLUMNS AT SHEAR WALLS                  | FACE SCREW      | SD10212       |     | 12" OC   |
| BUILT-UP STUD COLUMNS NOT AT SHEAR WALLS              | FACE SCREW      | SD10212       |     | 24" OC   |
| JACK TO KING STUD                                     | FACE SCREW      | SD10212       |     | 24" OC   |
| HEADER TO TOP PLATE                                   | FACE SCREW      | SDWS16300     |     | (2) @ 24" OC   |
| HEADER LAMINATION                                     | FACE SCREW      | SD9212        |     | 24" OC STAGGERED AND (3) AT ENDS   |
| PLATE LAP ADJACENT TO INTERSECTING WALL PLATE         | FACE SCREW      | SD10212       | 3   | SPACE EVENLY ACROSS LAP AREA   |
| FLAT 2X HEADER OR WINDOW SILL AT KING STUD            | FACE SCREW      | SD9212        | 2   | USE (3) SDWS16212 TOE SCREWS AT DOUBLE KING STUDS  |
| TOP/BOTTOM PLATE TO RIM JOIST <sup>(1)</sup>          | FACE SCREW      | SDWS16300     |     | 12" OC OUTSIDE OF SHEAR WALL PANEL; SEE SHEAR WALL SCHEDULE FOR SHEAR WALL PLATE NAILING |
| TOP/BOTTOM PLATE TO TRUSS BOTTOM CHORD <sup>(1)</sup> | FACE SCREW      | SDWS16300     |     | 12" OC OUTSIDE OF SHEAR WALL PANEL; SEE SHEAR WALL SCHEDULE FOR SHEAR WALL PLATE NAILING |
| FLOOR   |                 |               |     |  |
| JOIST TO RIM BOARD                                    | END SCREW       | SD9212        | 3   |  |
| BLOCKING TO JOIST                                     | TOE SCREW       | SD9212        | 2   |  |
| CANTILEVER BEAM TO BEAM                               | TOE SCREW       | SD10212       | 3   |  |
| LAMINATED 2X RIM JOIST                                | FACE SCREW      | SD9212        |     | 24" OC STAGGERED AND (3) AT ENDS   |

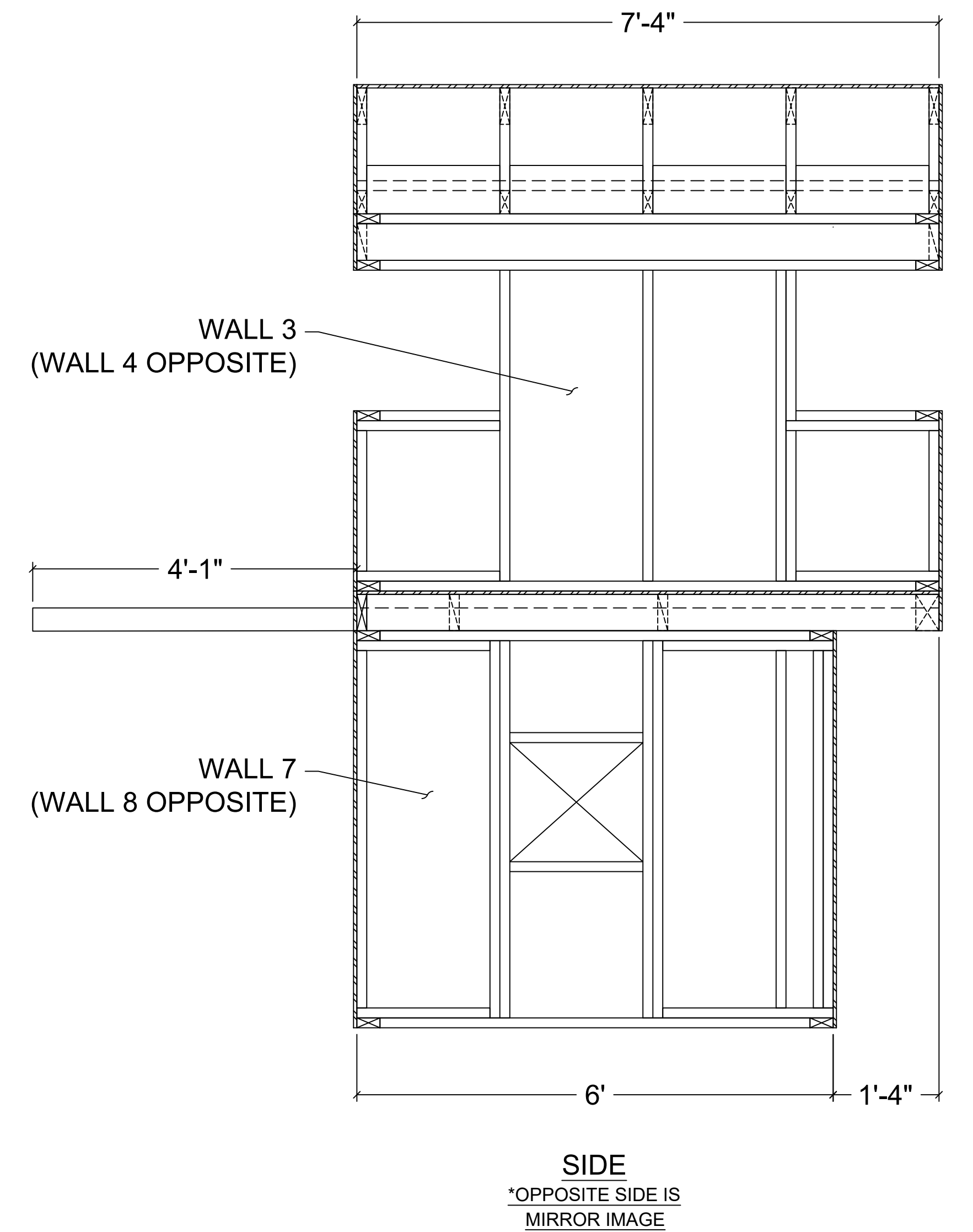
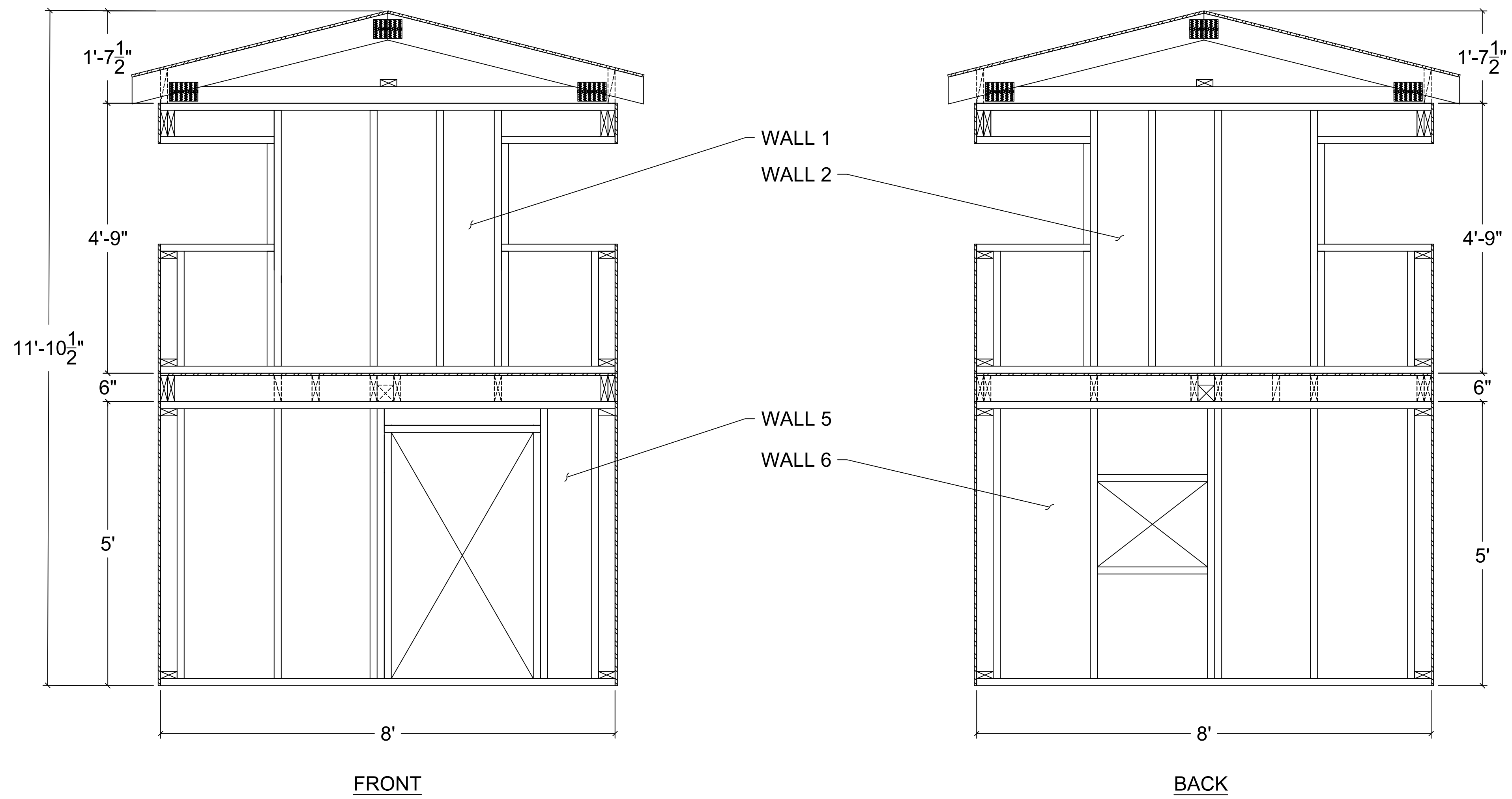
1. WHERE SDWS16300 ARE REQUIRED TO CONNECT A DOUBLE PLATE TO FRAMING ABOVE OR BELOW, DRILL PILOT HOLE TO INSTALL SCREW AT DEPTH OF SINGLE PLATE

| SHEAR WALL SCHEDULE <sup>(1)(2)(3)</sup> |                |                       |           |                |                 |  |                             |  |
|--|----------------|-----------------------|-----------|----------------|-----------------|--|-----------------------------|--|
| ID                                       | SHEATHING      | SHEATHING SPAN RATING | FASTENERS | EDGE FASTENING | FIELD FASTENING | TOP AND BOTTOM PLATE NAILING                     | HOLD DOWNS                  | NOTES  |
| SW1                                      | 15/32" PLYWOOD | 32/16                 | WSV134S   | 6"             | 12"             | (3) SDWS16300 SPACED EVENLY                      | PER WALL PANEL FRAMING PLAN |  |
| SW2                                      | 15/32" PLYWOOD | 32/16                 | WSV134S   | 6"             | 12"             | (3) SDWS16300 SPACED EVENLY                      | PER WALL PANEL FRAMING PLAN |  |
| SW3                                      | 15/32" PLYWOOD | 32/16                 | WSV134S   | 4"             | 12"             | (3) SDWS16300 SPACED EVENLY                      | PER WALL PANEL FRAMING PLAN | PROVIDE TWO ROWS OF EDGE FASTENERS AT TOP AND BOTTOM PLATES, STAGGERED |
| SW4                                      | 15/32" PLYWOOD | 32/16                 | WSV134S   | 4"             | 12"             | (3) SDWS16300 SPACED EVENLY                      | PER WALL PANEL FRAMING PLAN | PROVIDE TWO ROWS OF EDGE FASTENERS AT TOP AND BOTTOM PLATES, STAGGERED |
| SW5                                      | 15/32" PLYWOOD | 32/16                 | WSV134S   | 4"             | 12"             | (8) SDWS16300 SPACED EVENLY, TWO ROWS, STAGGERED | PER WALL PANEL FRAMING PLAN |  |
| SW6                                      | 15/32" PLYWOOD | 32/16                 | WSV134S   | 4"             | 12"             | (8) SDWS16300 SPACED EVENLY, TWO ROWS, STAGGERED | PER WALL PANEL FRAMING PLAN |  |
| SW7                                      | 15/32" PLYWOOD | 32/16                 | WSV134S   | 4"             | 12"             | (8) SDWS16300 SPACED EVENLY                      | PER WALL PANEL FRAMING PLAN | FASTEN ALL SHEATHING PANELS ON PERFORATED SW8 PER THIS SPEC            |
| SW8                                      | 15/32" PLYWOOD | 32/16                 | WSV134S   | 4"             | 12"             | (8) SDWS16300 SPACED EVENLY                      | PER WALL PANEL FRAMING PLAN | FASTEN ALL SHEATHING PANELS ON PERFORATED SW8 PER THIS SPEC            |

1. SHEAR WALL PANEL BASE WIDTH "b<sub>w</sub>" PER WALL PANEL FRAMING PLAN
2. FASTEN SHEATHING PANELS OUTSIDE OF b<sub>w</sub> AS NON-SHEAR WALL SEGMENTS PER FASTENER SCHEDULE
3. EDGE DISTANCE IS 3/8" MIN UNO

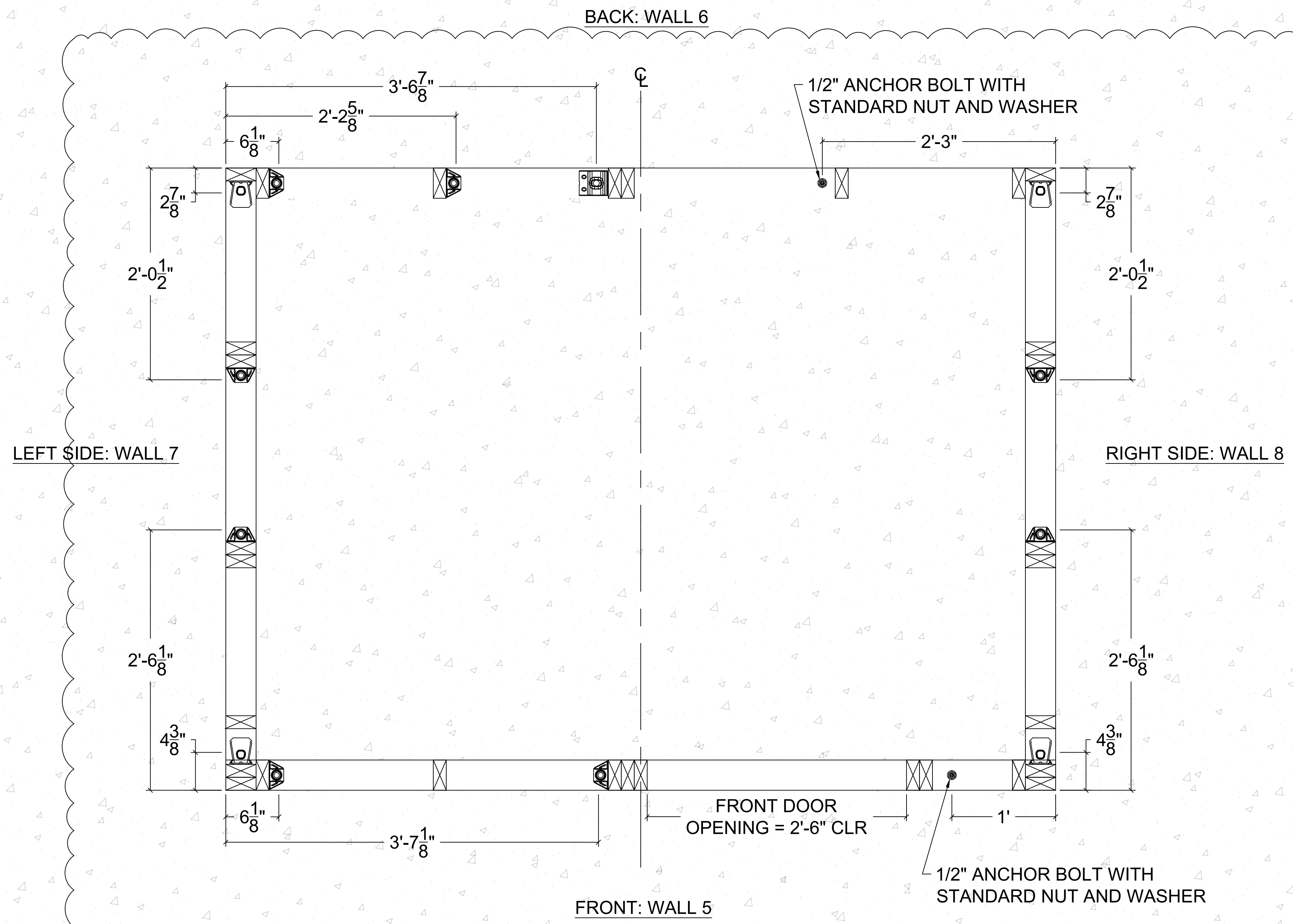


| TYPICAL NOTES |  |
|---------------|--|
| 1             | FASTEN FRAMING MEMBERS, SHEAR WALL COMPONENTS, AND DIAPHRAGM COMPONENTS PER APPLICABLE SCHEDULE OR DETAILS |
| 2             | SEE WALL PANEL FRAMING PLANS FOR CONNECTION DETAIL CALLOUTS  |
| 3             | SHEATHING OMITTED FOR CLARITY; SEE WALL PANEL PLANS FOR SHEATHING DETAILS                                  |



**TYPICAL NOTES**

|   |   |
|---|---|
| 1 | ALL DIMENSIONS ARE FROM OUTSIDE CORNERS TO CENTER OF BOLT HOLES |
| 2 | SEE WALL PANEL FRAMING PLANS FOR HOLD DOWN CALLOUTS             |
| 3 | FOUNDATION AND BOLT INSTALLATION BY OTHERS                      |

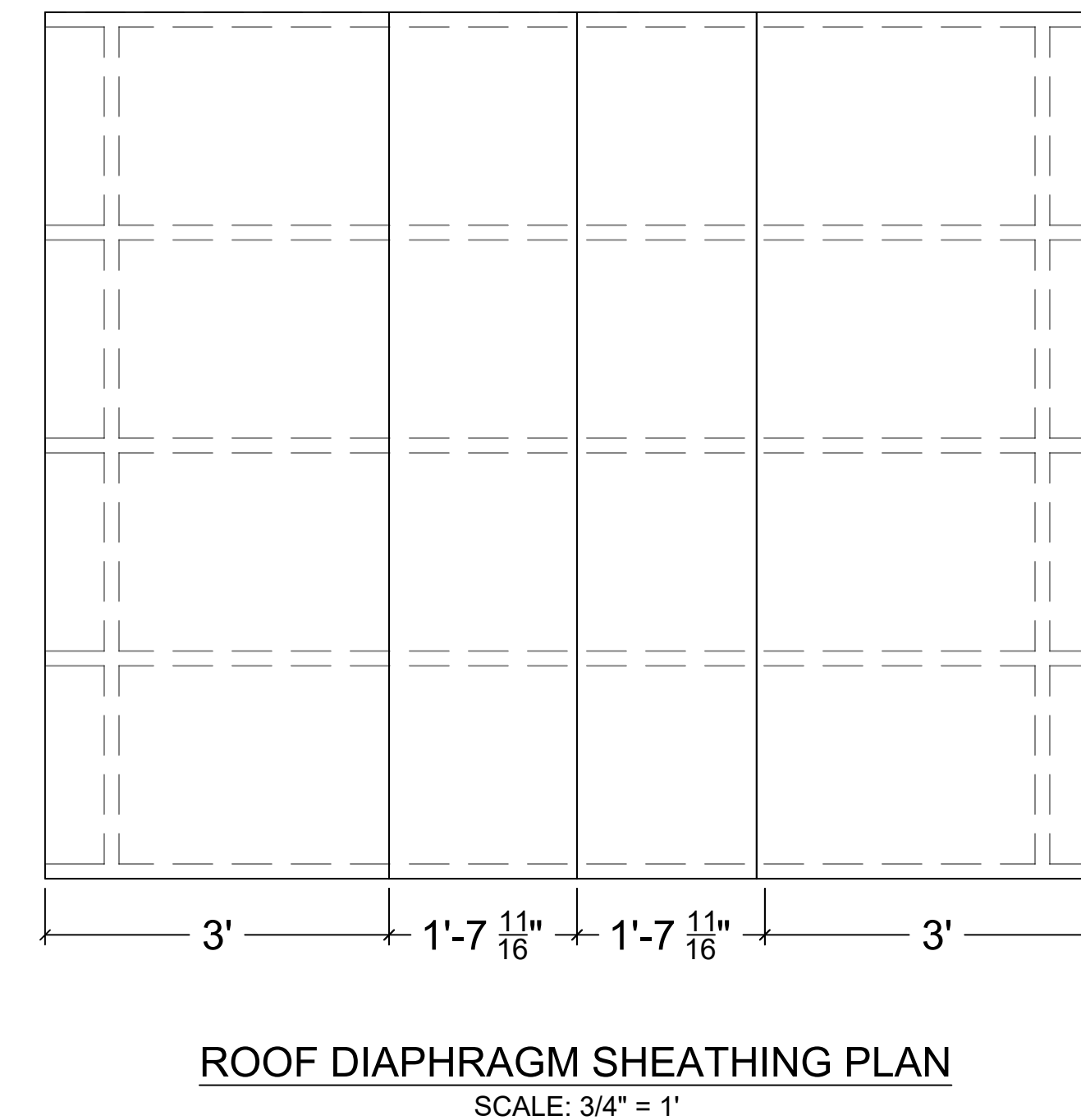
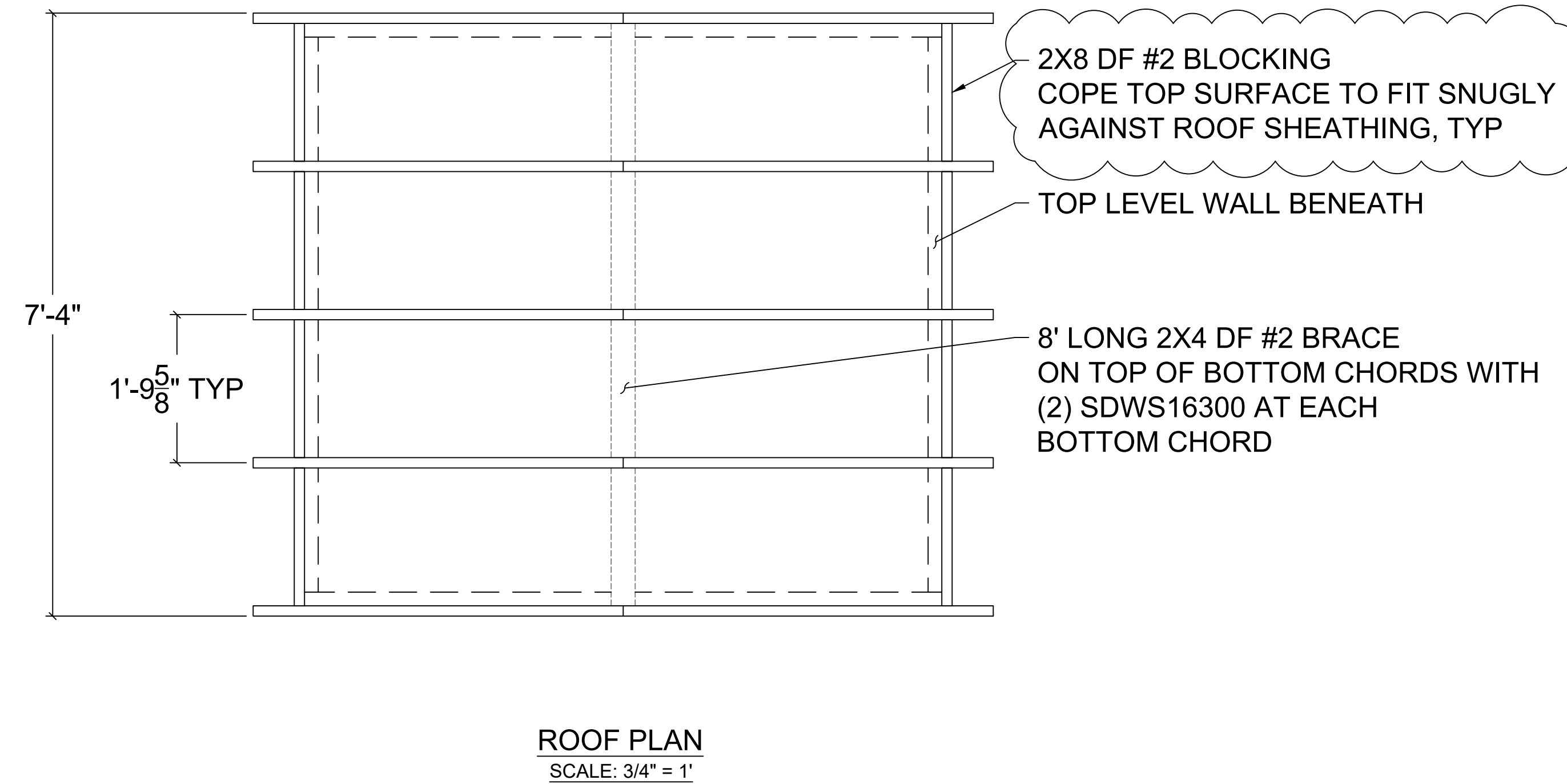
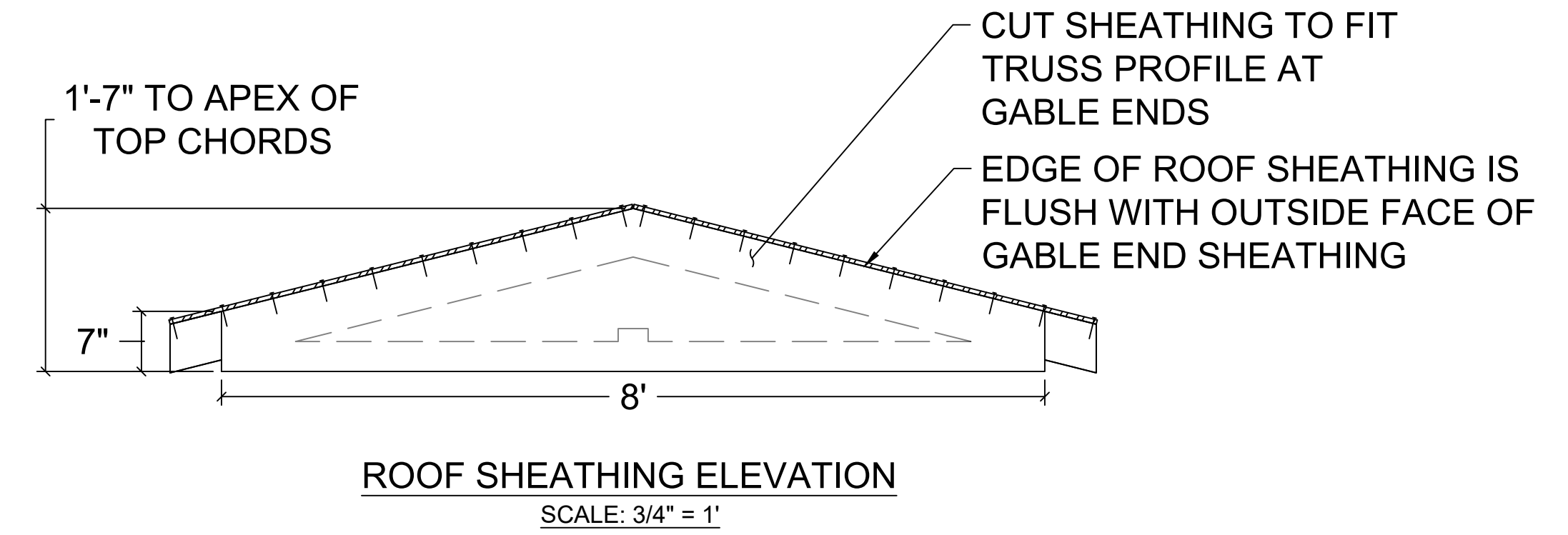
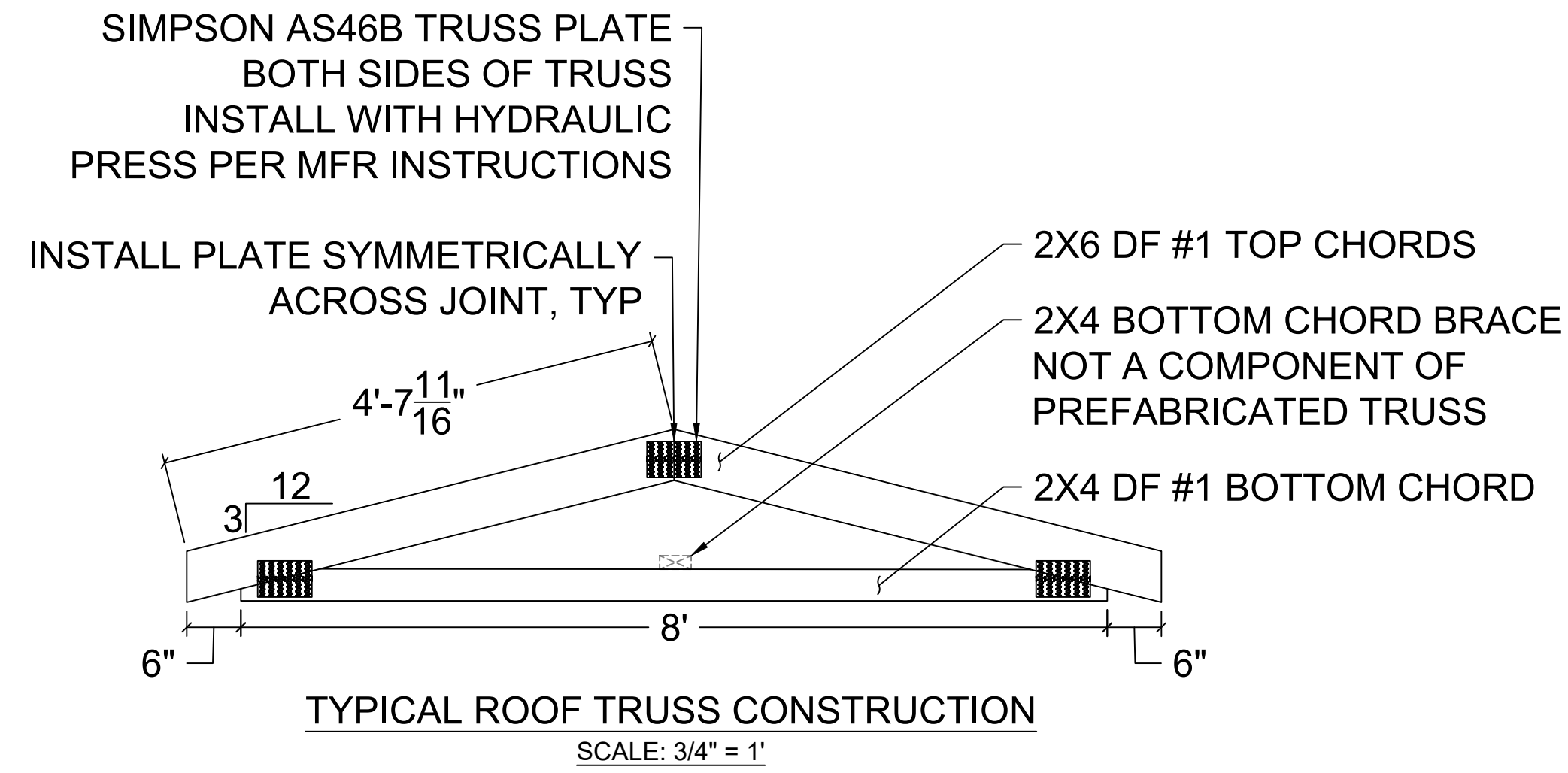


**FOUNDATION PLAN**  
SCALE : 1-1/2" = 1'



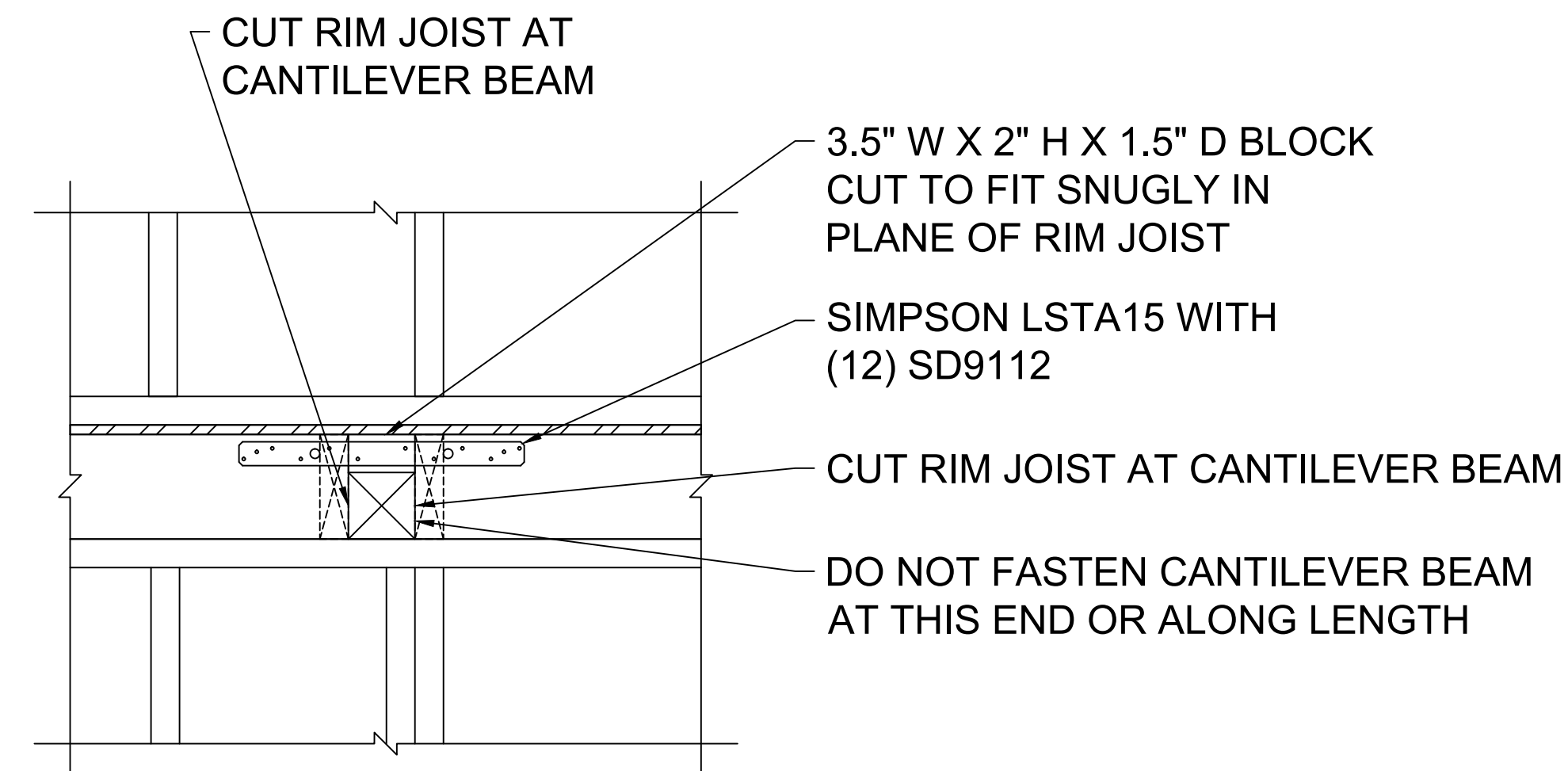
**TYPICAL NOTES**

|   |   |
|---|---|
| 1 | FASTEN SHEATHING TO FRAMING PER DIAPHRAGM SCHEDULE          |
| 2 | FASTEN FRAMING MEMBERS PER FASTENING SCHEDULE               |
| 3 | SEE WALL PANEL FRAMING PLANS FOR CONNECTION DETAIL CALLOUTS |

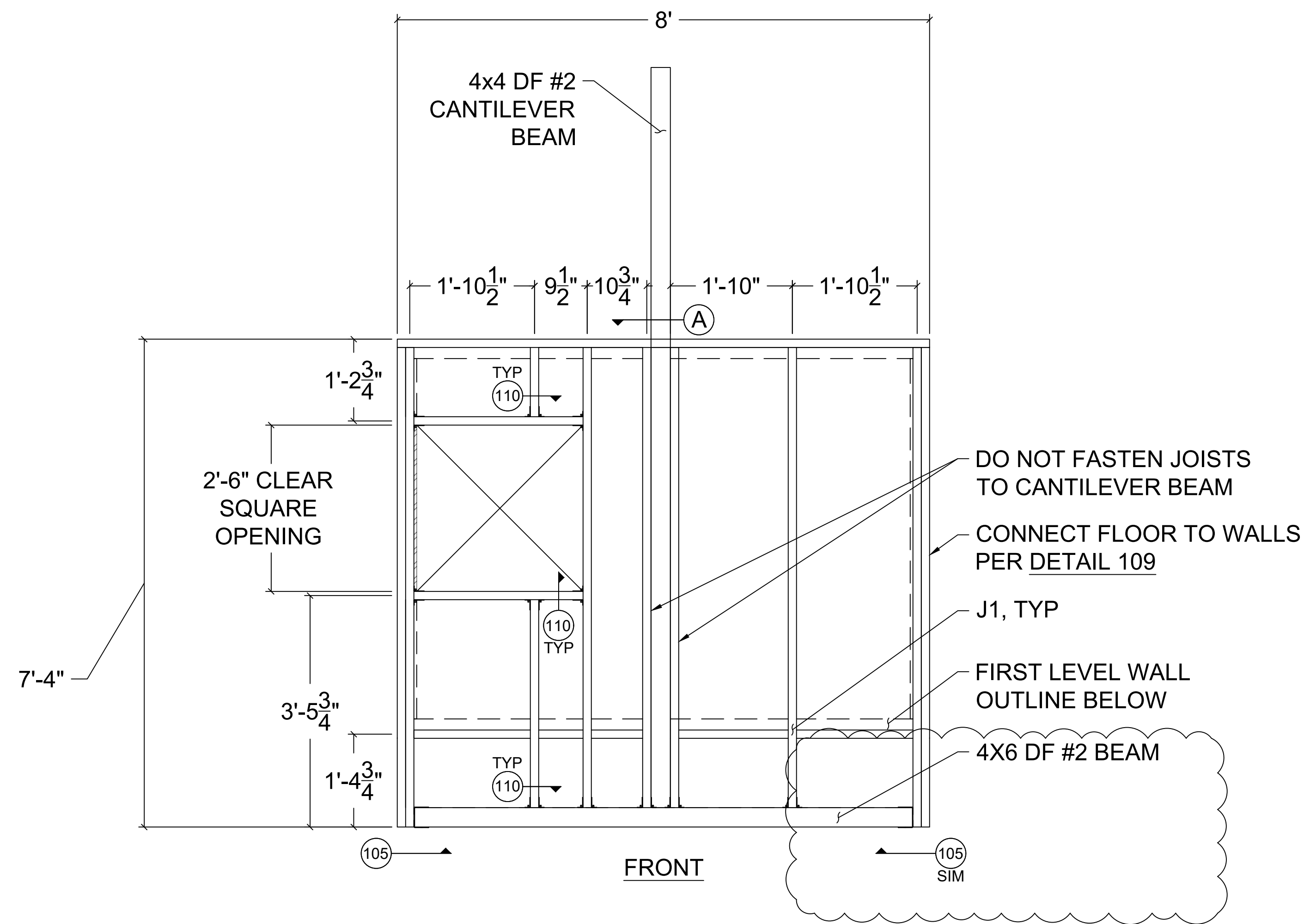


**TYPICAL NOTES**

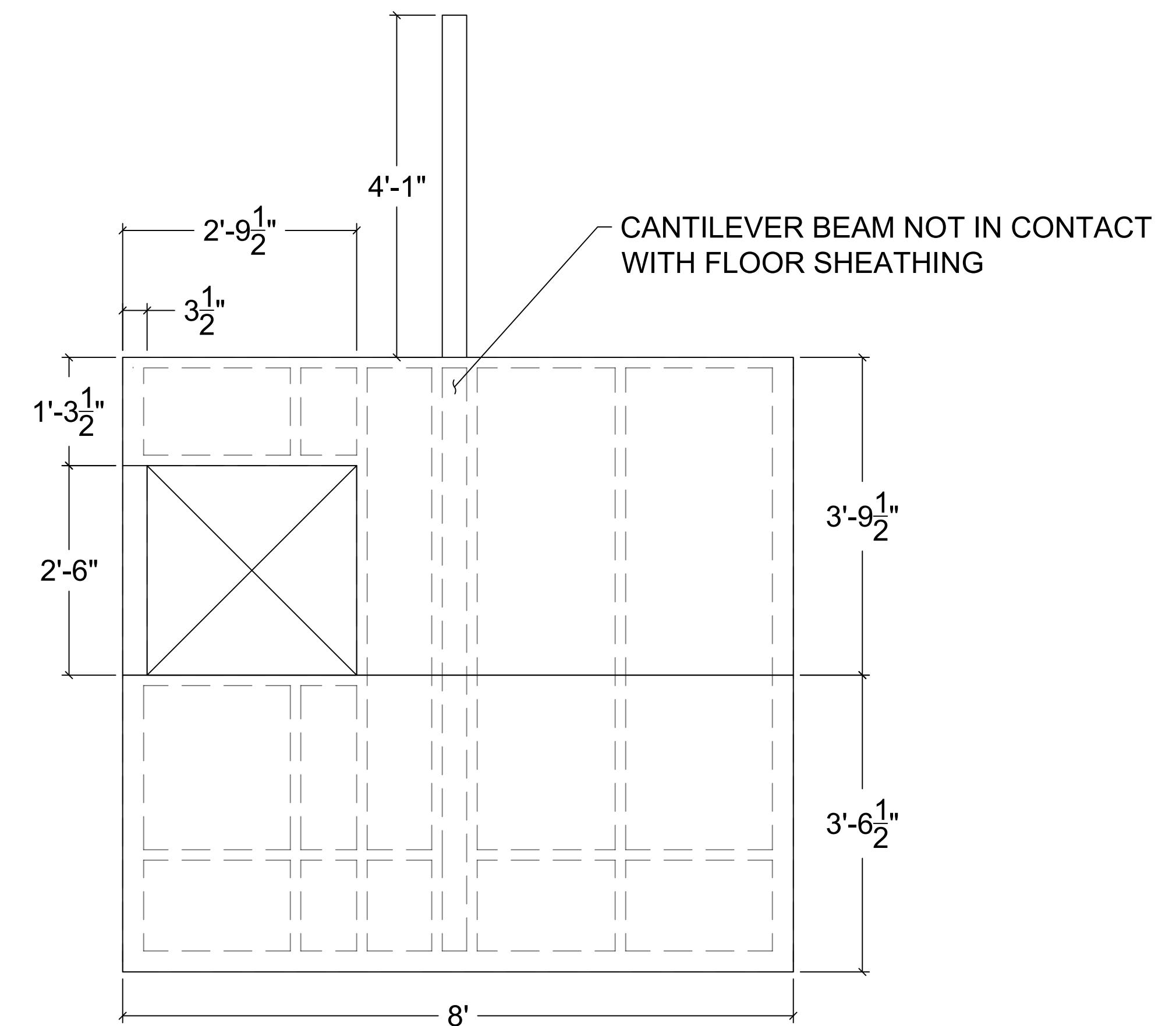
|   |  |
|---|--|
| 1 | ALL JOISTS AND BLOCKING 2X6 DF #2 UNO              |
| 2 | FASTEN SHEATHING TO FRAMING PER DIAPHRAGM SCHEDULE |
| 3 | FASTEN FRAMING MEMBERS PER FASTENING SCHEDULE      |



**A** EXTERIOR ELEVATION OF CANTILEVER BEAM  
SCALE: 1 1/2" = 1'



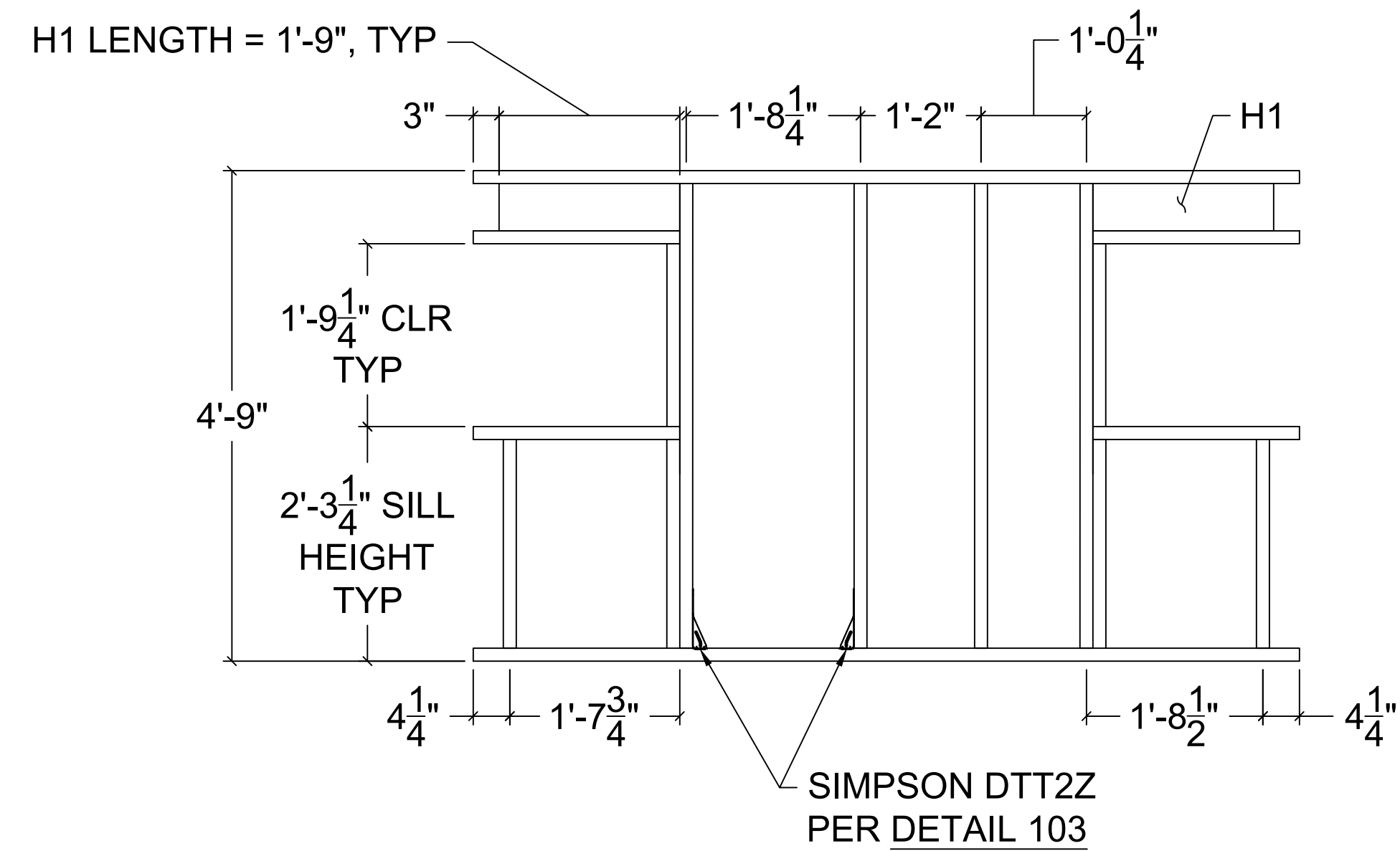
**SECOND LEVEL FLOOR PLAN**  
SCALE: 3/4" = 1'



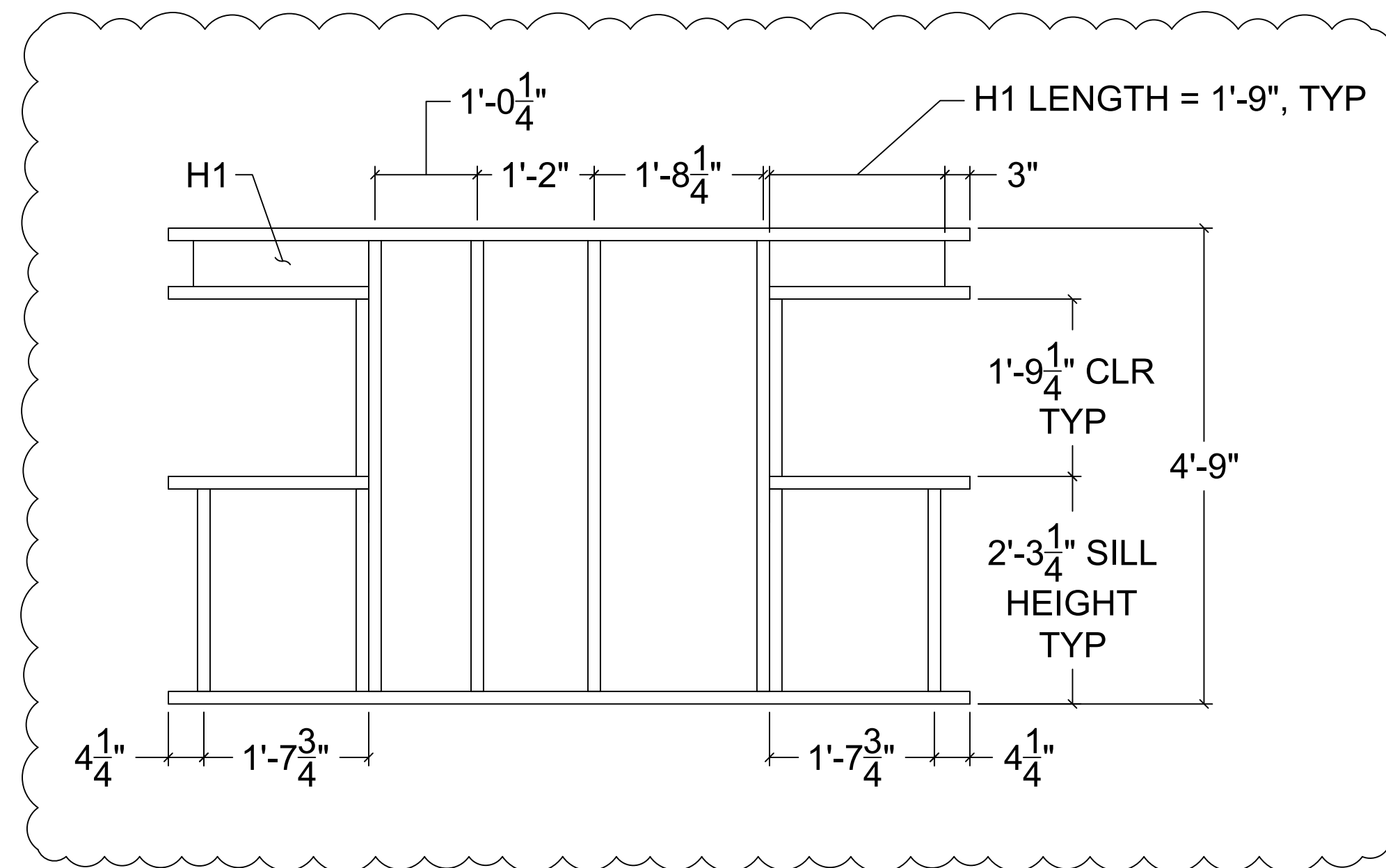
**FLOOR DIAPHRAGM SHEATHING PLAN**  
SCALE: 3/4" = 1'

**TYPICAL NOTES**

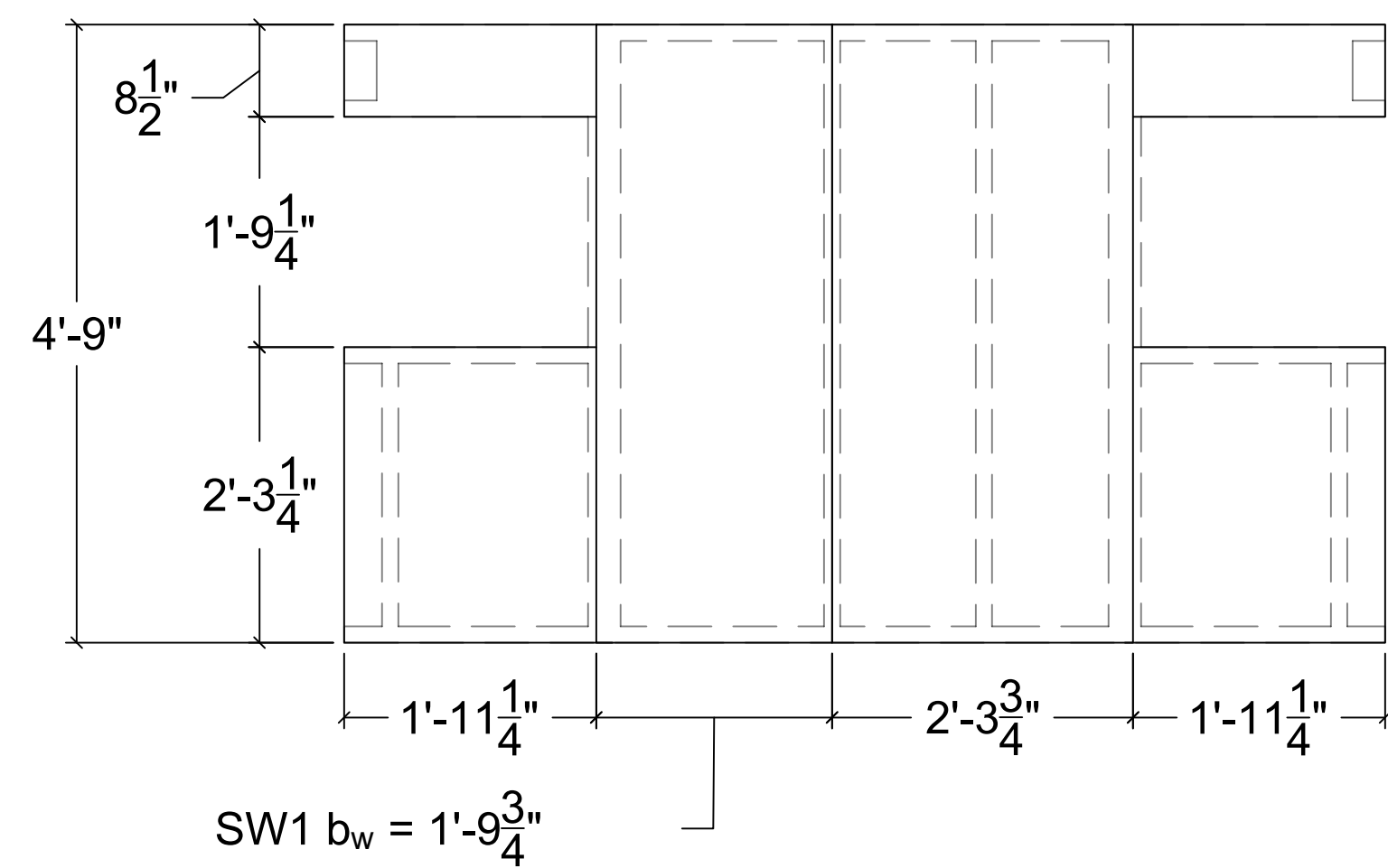
|   |   |
|---|---|
| 1 | ALL FRAMING MEMBERS DF #2 UNO                 |
| 2 | FASTEN SHEATHING PER APPLICABLE SCHEDULE      |
| 3 | FASTEN FRAMING MEMBERS PER FASTENING SCHEDULE |



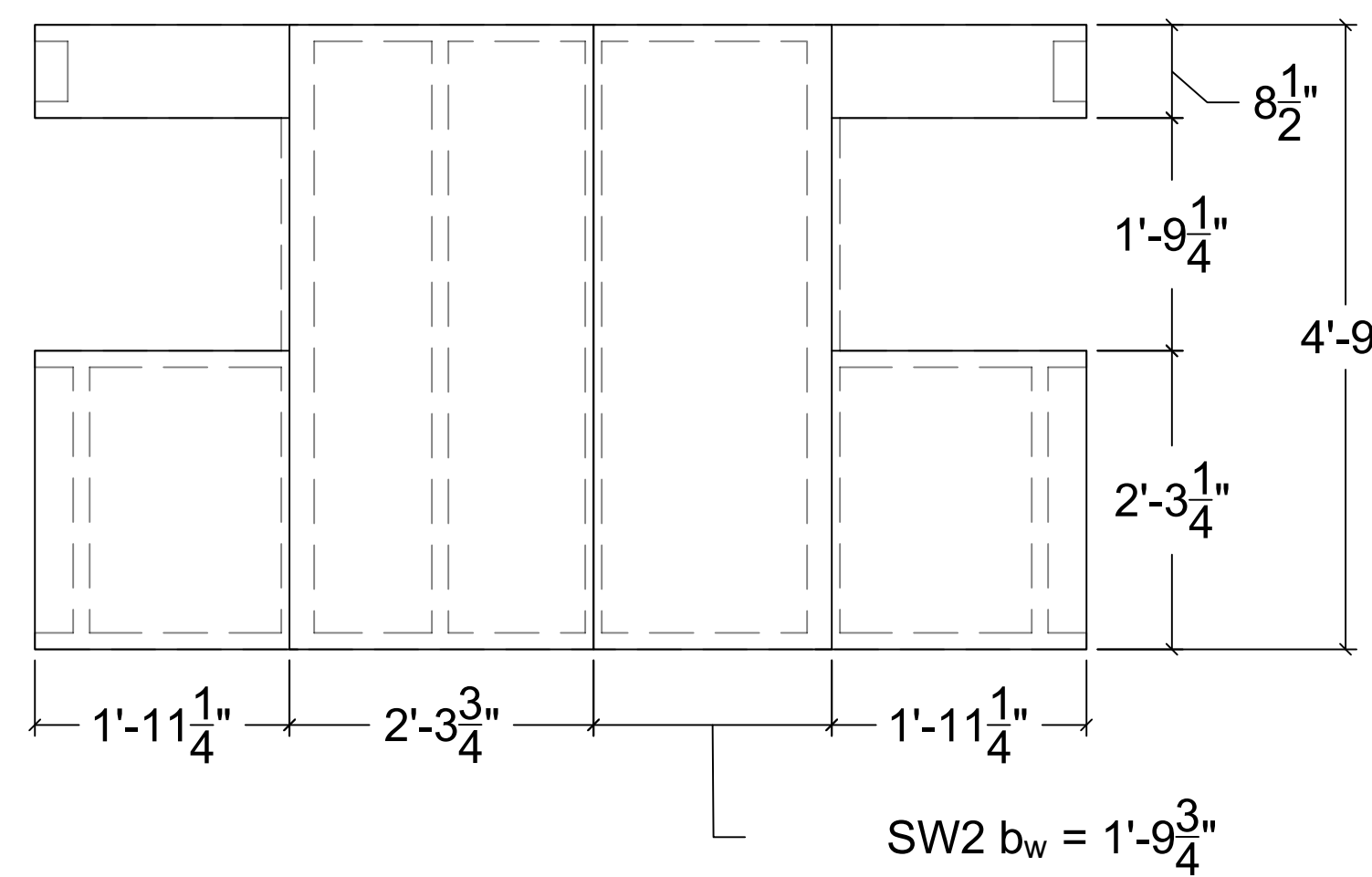
**WALL PANEL 1 ELEVATION**  
SCALE: 3/4" = 1'



**WALL PANEL 2 ELEVATION**  
SCALE: 3/4" = 1'



**WALL PANEL 1 SHEATHING DETAIL**  
SCALE: 3/4" = 1'



**WALL PANEL 2 SHEATHING DETAIL**  
SCALE: 3/4" = 1'



PROJECT: TIMBER STRONG DESIGN-BUILD COMPETITION

WALLS 1 & 2 FRAMING PLAN AND SHEATHING DETAILS

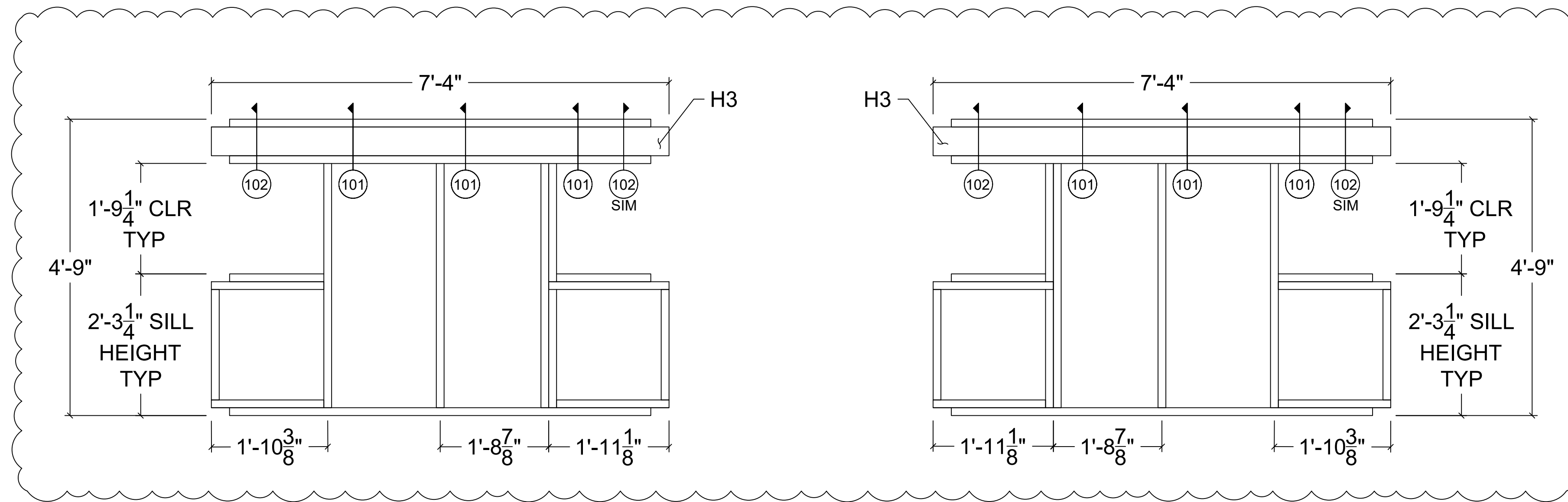
DATE: 06 MAR 2026  
DUE: 06 MAR 2026  
REVISION: 1

BY: ZFT  
SCALE: AS NOTED

DRAWING: WALL12  
PAGE: 7 OF 12

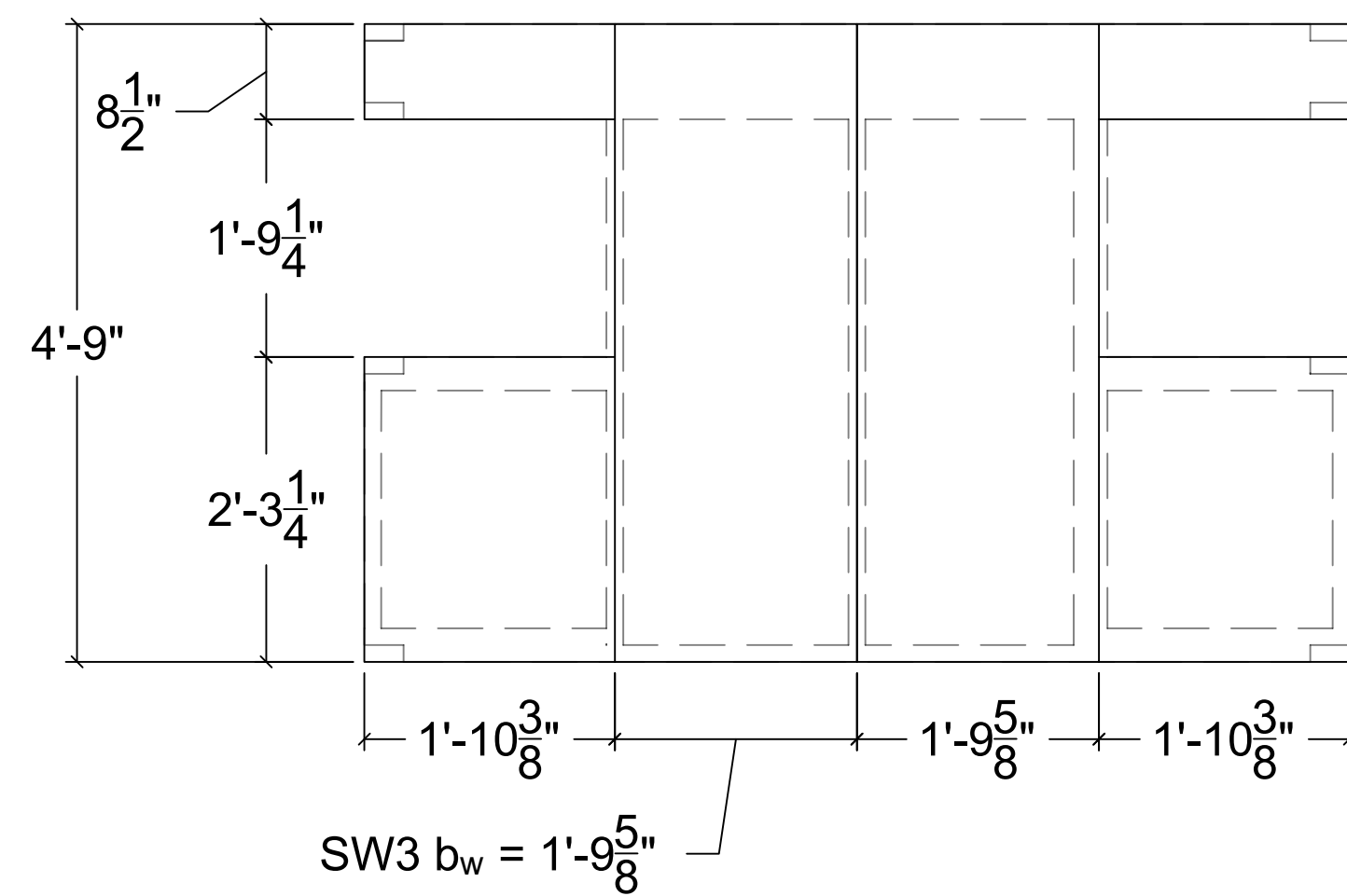
**TYPICAL NOTES**

|   |   |
|---|---|
| 1 | ALL FRAMING MEMBERS DF #2 UNO                 |
| 2 | FASTEN SHEATHING PER APPLICABLE SCHEDULE      |
| 3 | FASTEN FRAMING MEMBERS PER FASTENING SCHEDULE |

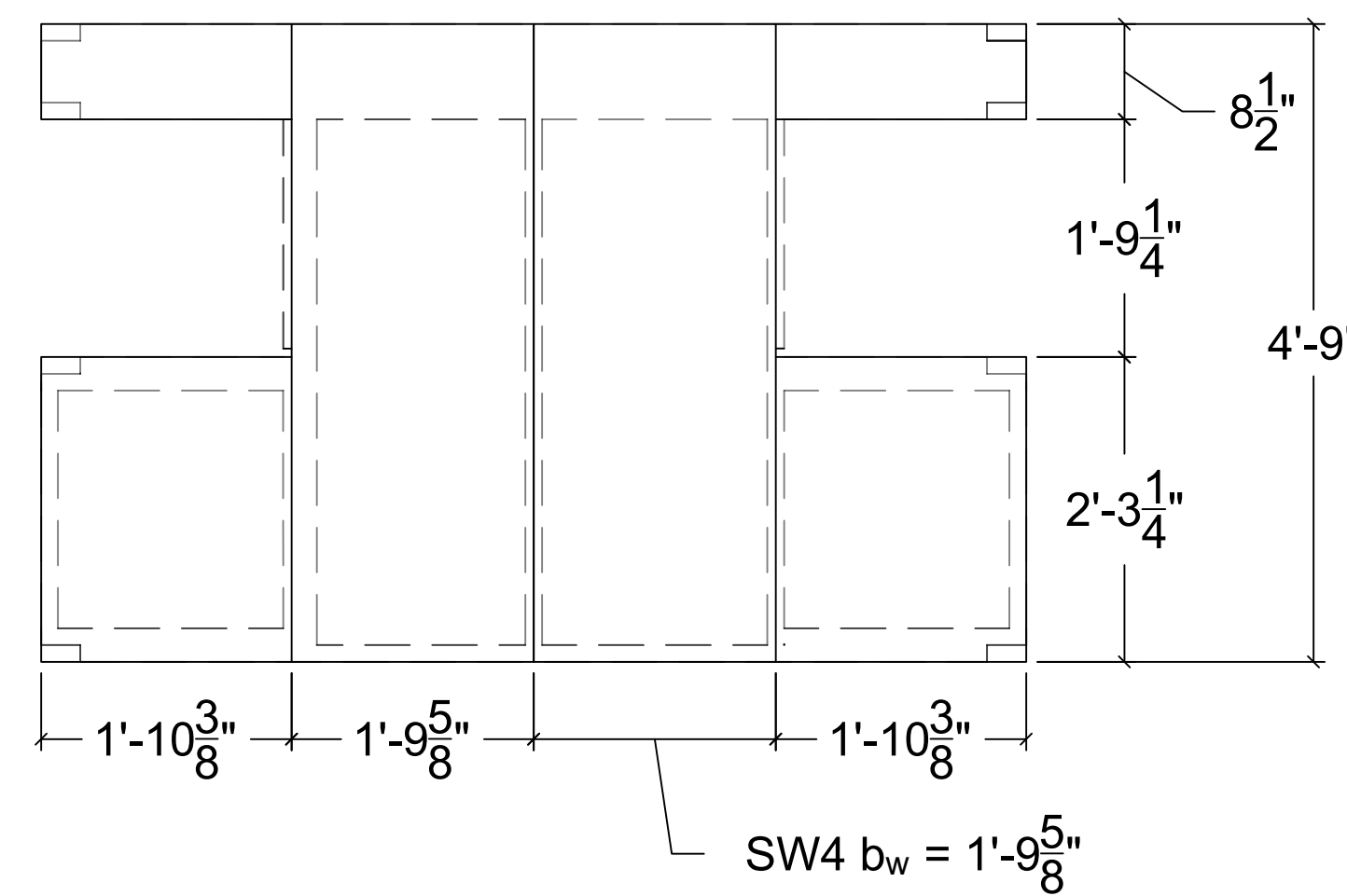


**WALL PANEL 3 ELEVATION**  
SCALE: 3/4" = 1'

**WALL PANEL 4 ELEVATION**  
SCALE: 3/4" = 1'



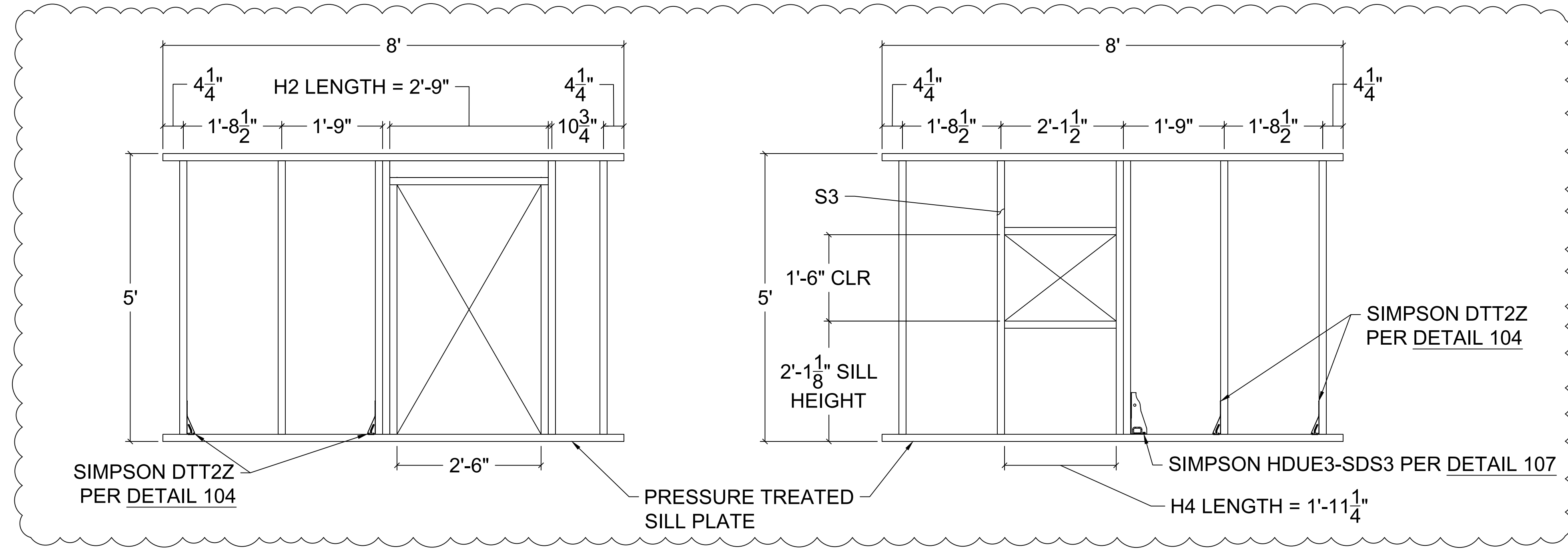
**WALL PANEL 3 SHEATHING DETAIL**  
SCALE: 3/4" = 1'



**WALL PANEL 4 SHEATHING DETAIL**  
SCALE: 3/4" = 1'

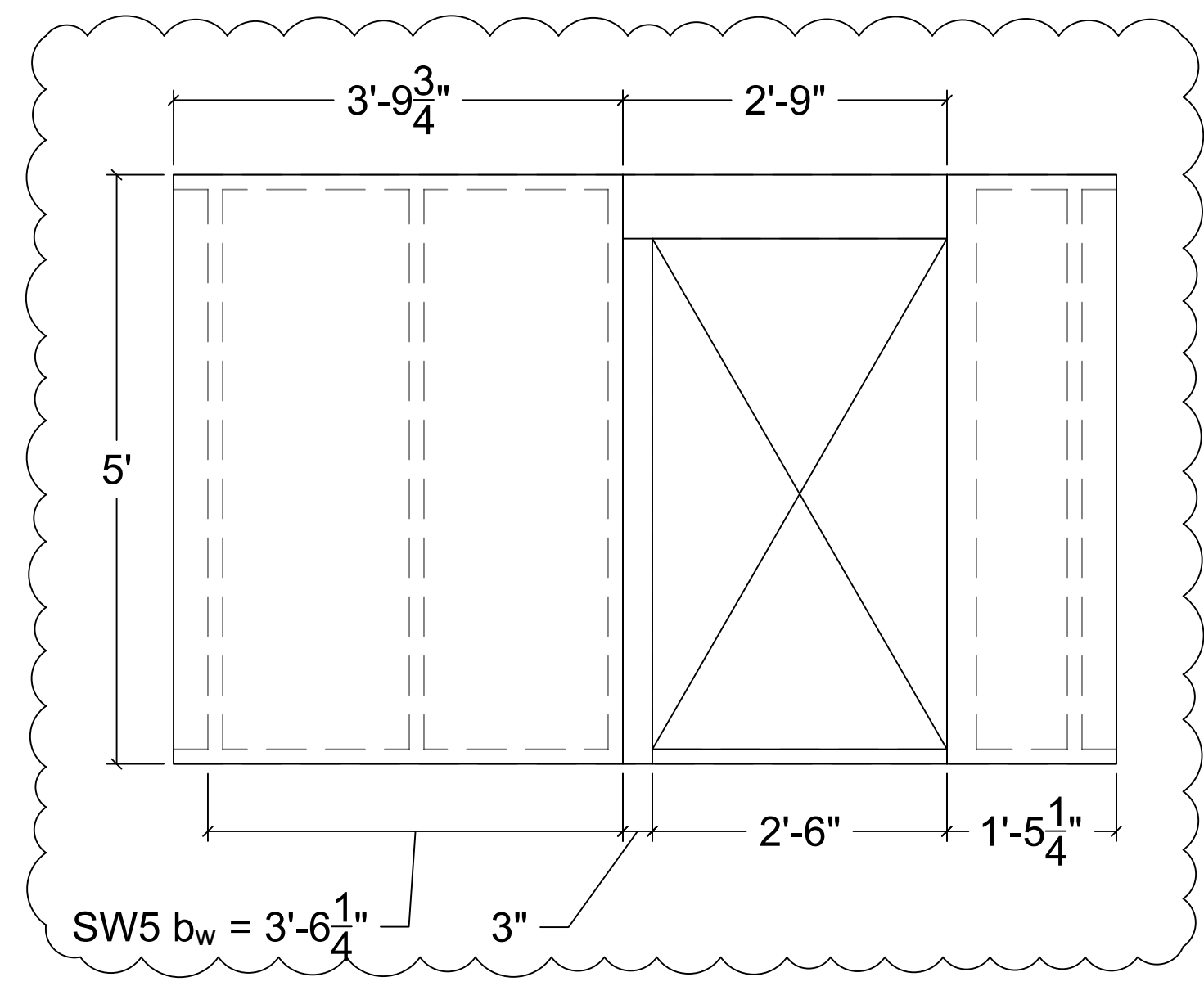
**TYPICAL NOTES**

|   |   |
|---|---|
| 1 | ALL FRAMING MEMBERS DF #2 UNO                 |
| 2 | FASTEN SHEATHING PER APPLICABLE SCHEDULE      |
| 3 | FASTEN FRAMING MEMBERS PER FASTENING SCHEDULE |

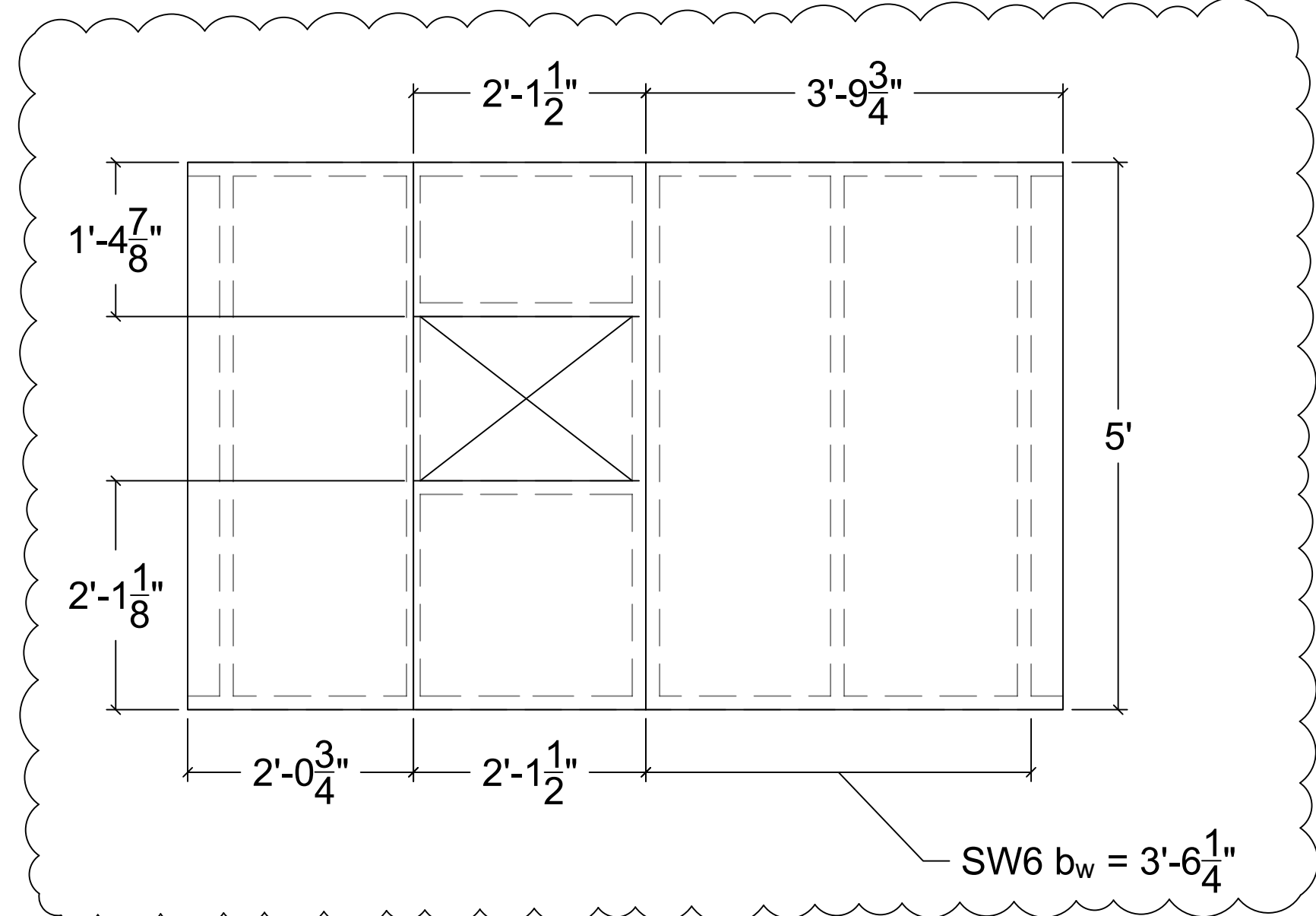


**WALL PANEL 5 ELEVATION**  
SCALE: 3/4" = 1'

**WALL PANEL 6 ELEVATION**  
SCALE: 3/4" = 1'



**WALL PANEL 5 SHEATHING DETAIL**  
SCALE: 3/4" = 1'

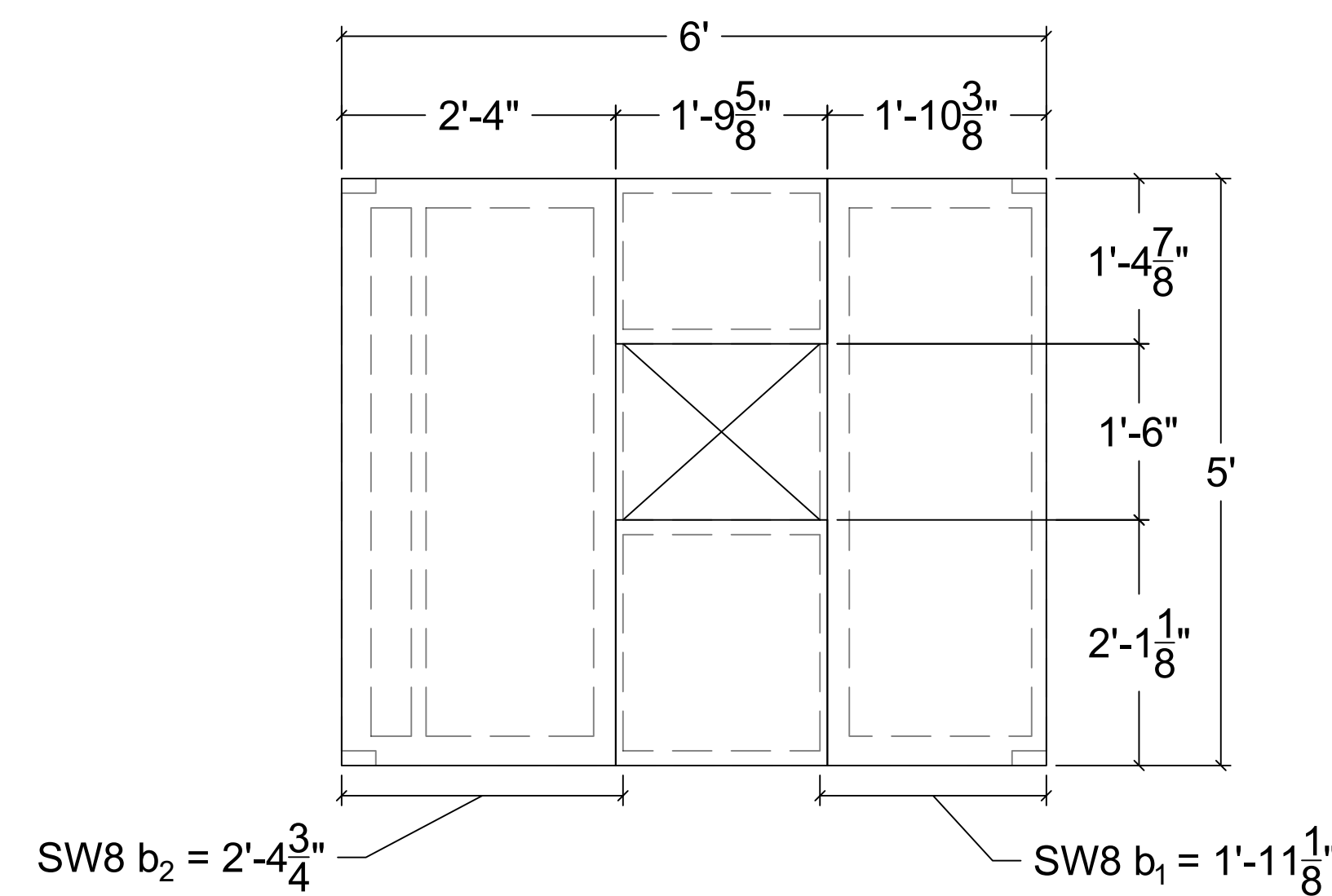
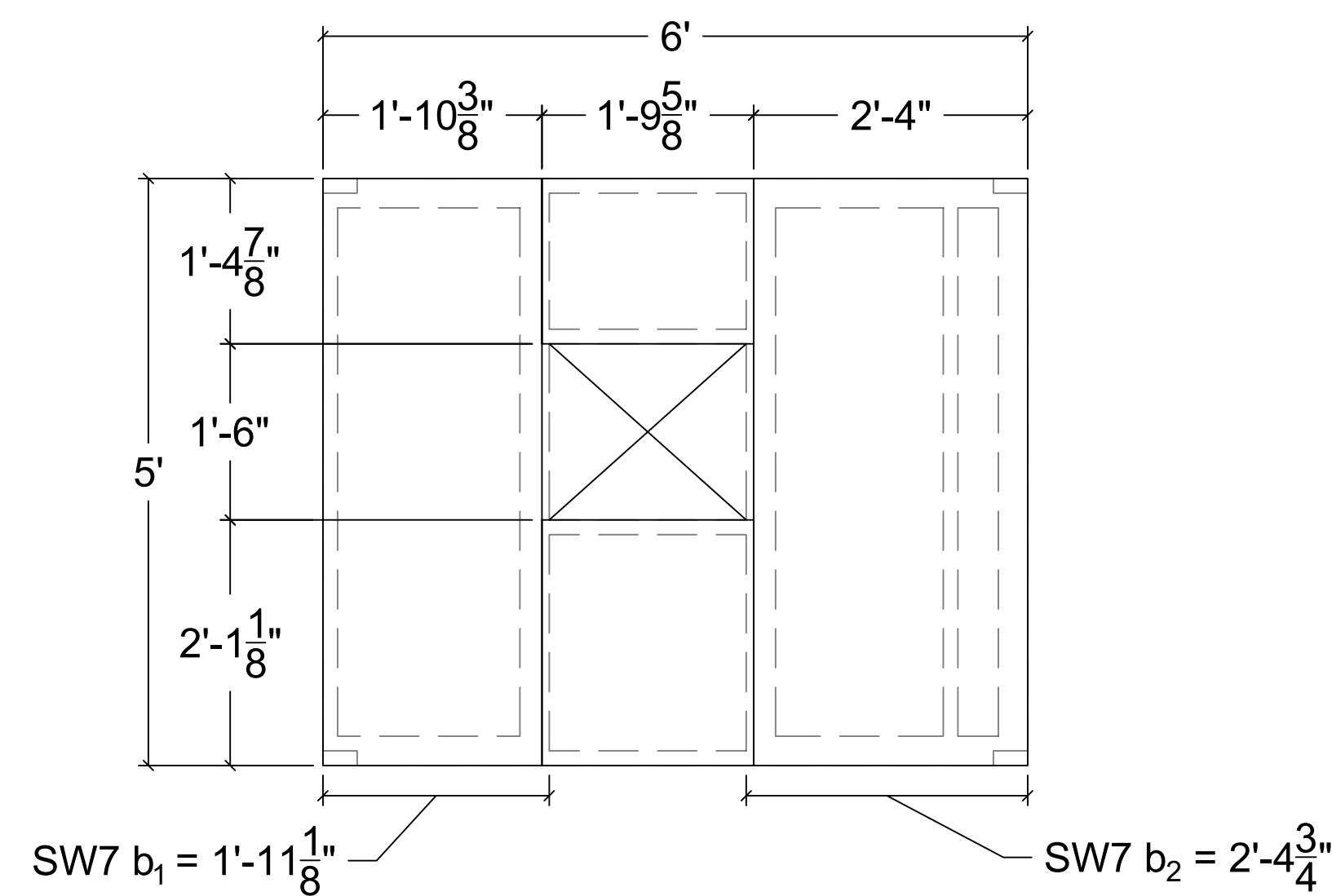
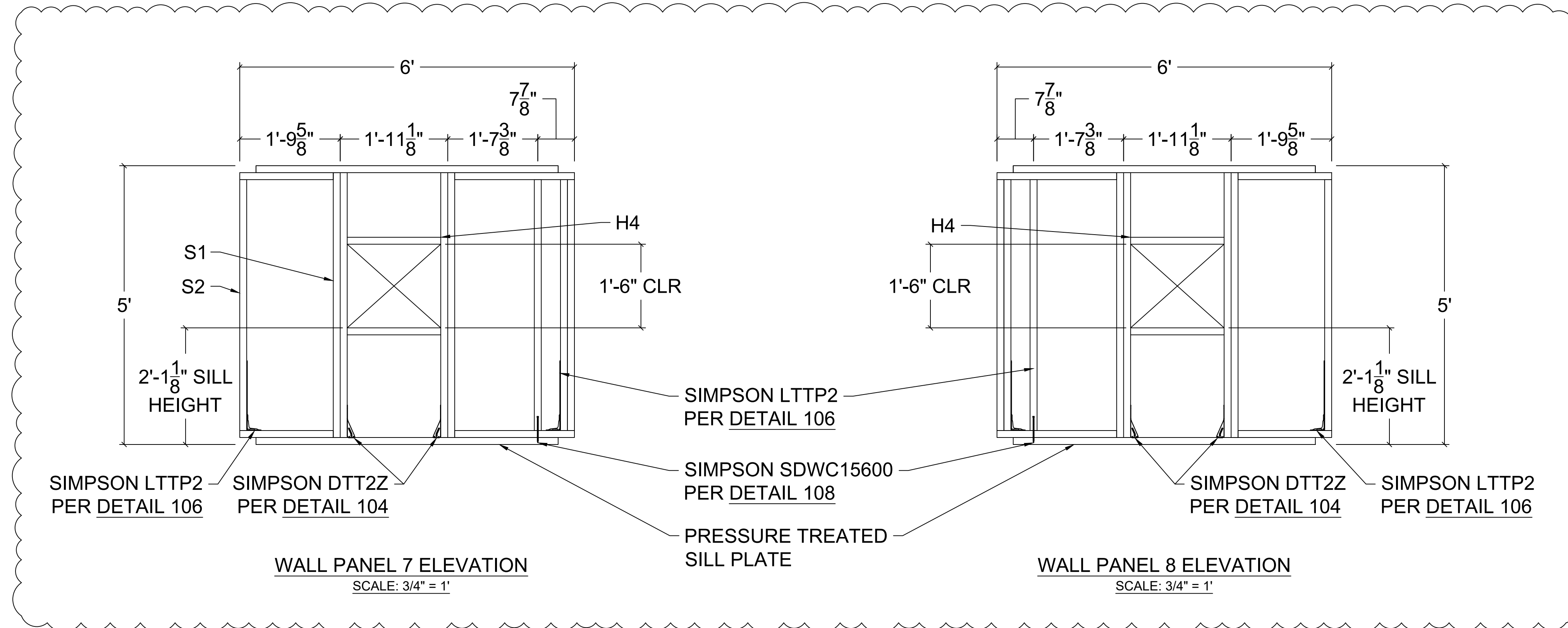


**WALL PANEL 6 SHEATHING DETAIL**  
SCALE: 3/4" = 1'

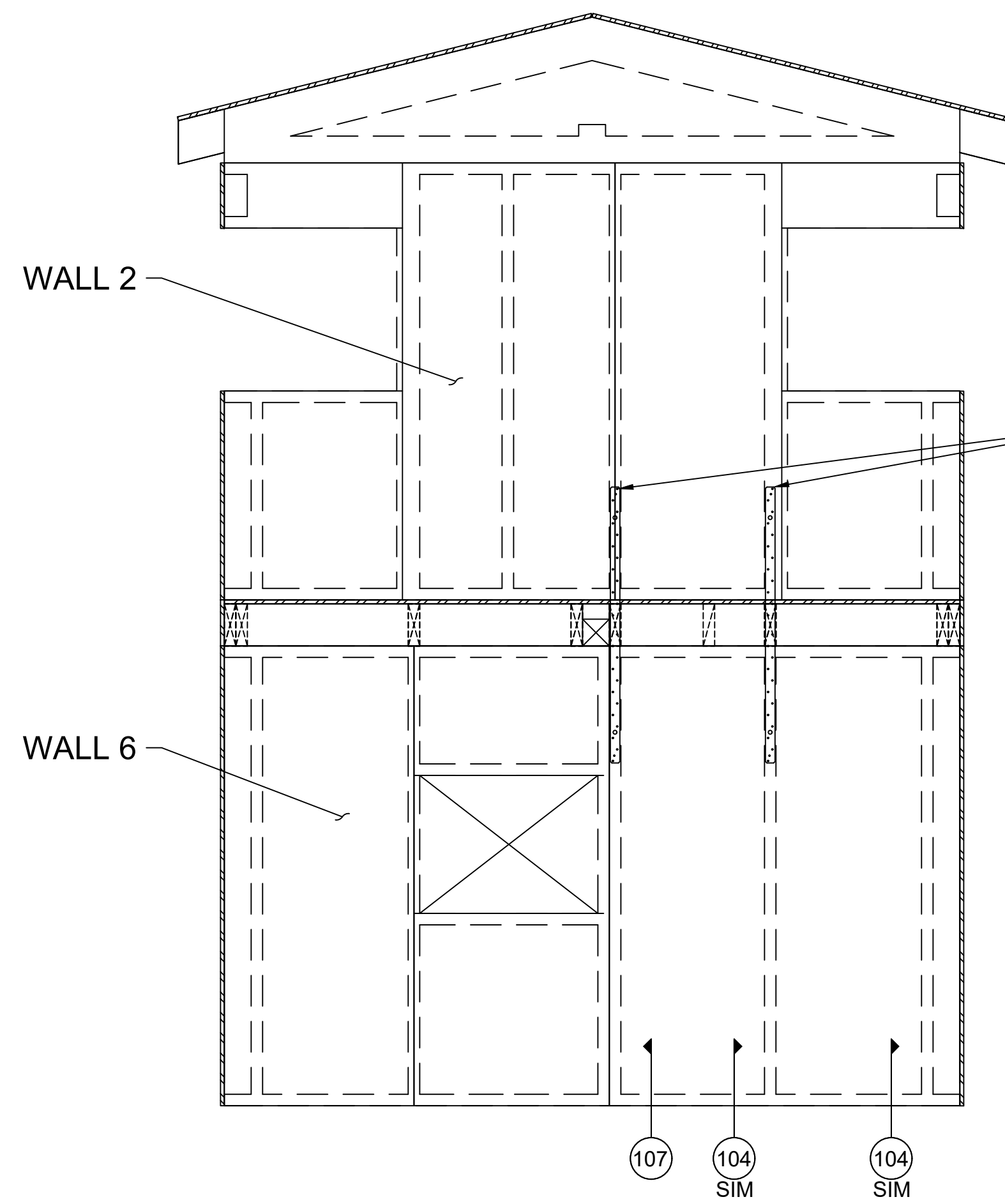


**TYPICAL NOTES**

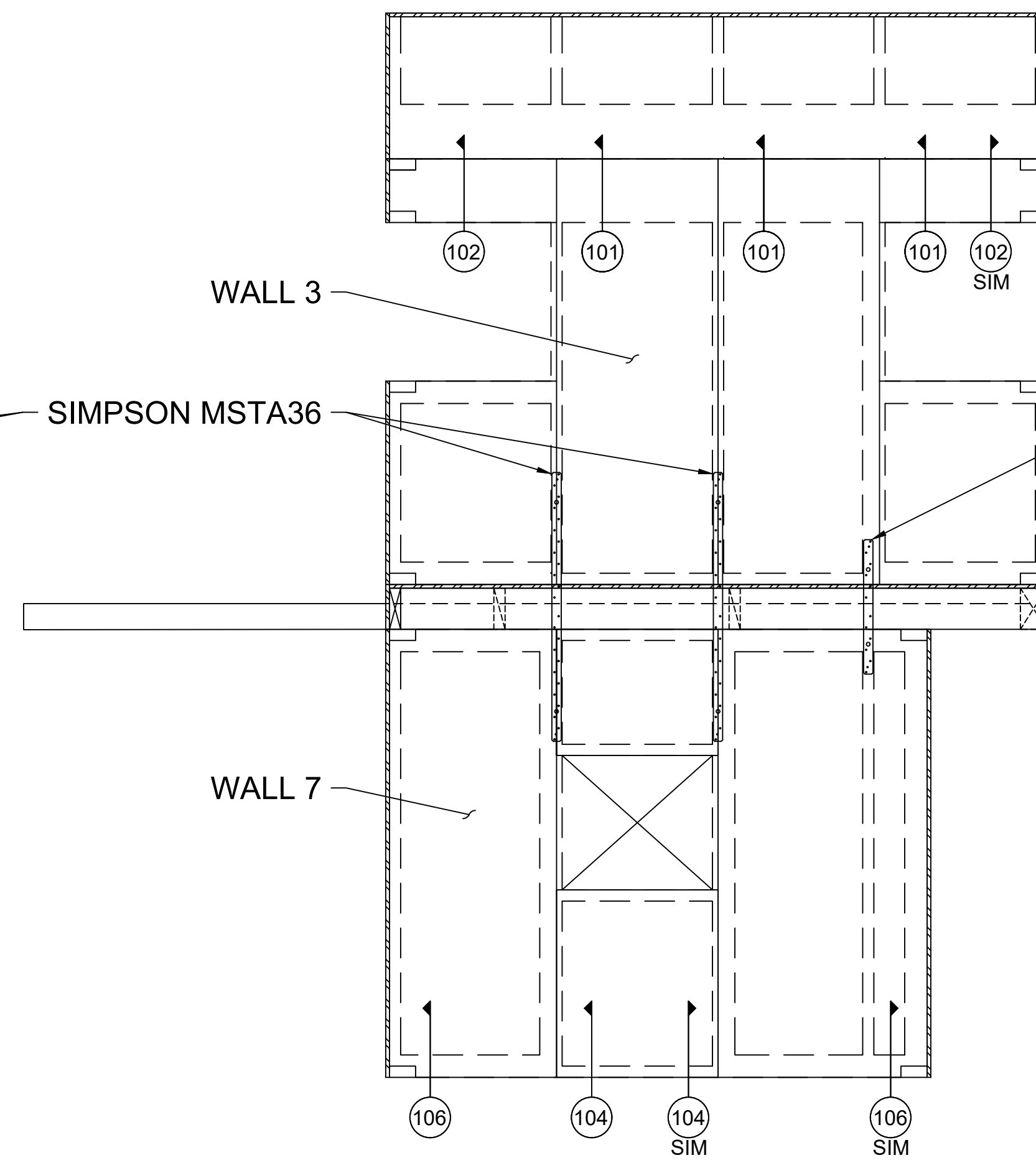
|   |   |
|---|---|
| 1 | ALL FRAMING MEMBERS DF #2 UNO                 |
| 2 | FASTEN SHEATHING PER APPLICABLE SCHEDULE      |
| 3 | FASTEN FRAMING MEMBERS PER FASTENING SCHEDULE |



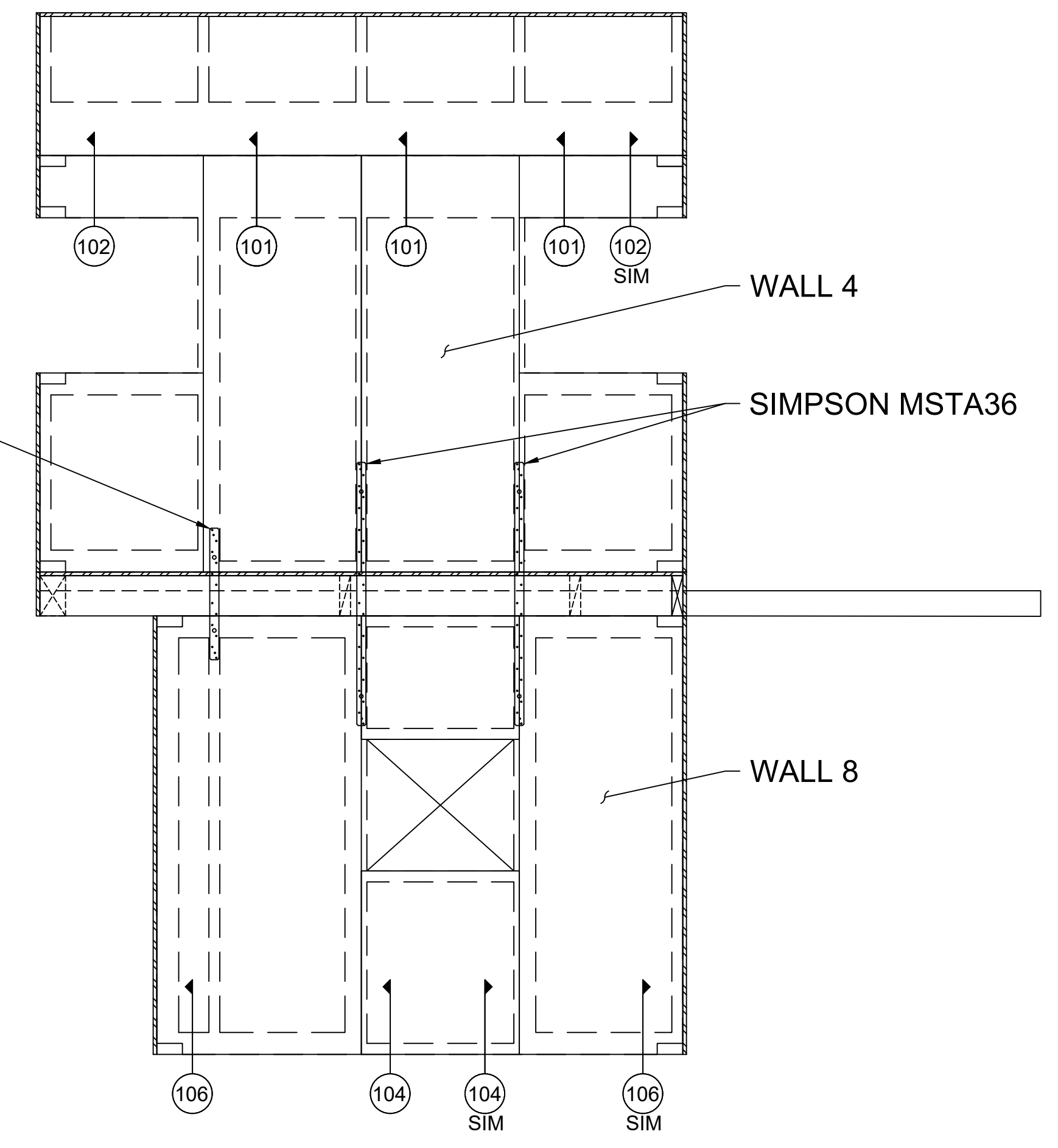
| TYPICAL NOTES |  |
|---------------|--|
| 1             | INSTALL STRAPS OUTSIDE OF SHEATHING; FILL ALL HOLES WITH SIMPSON SD9212 SCREWS |
| 2             | FRONT OF STRUCTURE HAS NO TENSION STRAPS                                       |



BACK



LEFT SIDE



RIGHT SIDE

SIMPSON MSTA36

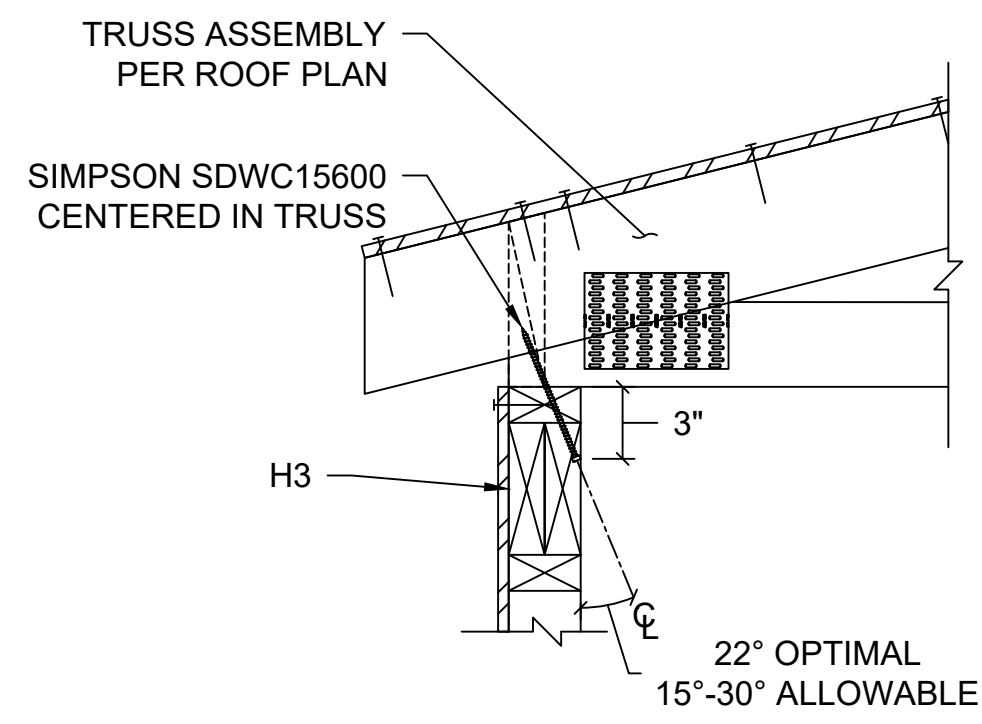
SIMPSON MSTA18

WALL 4

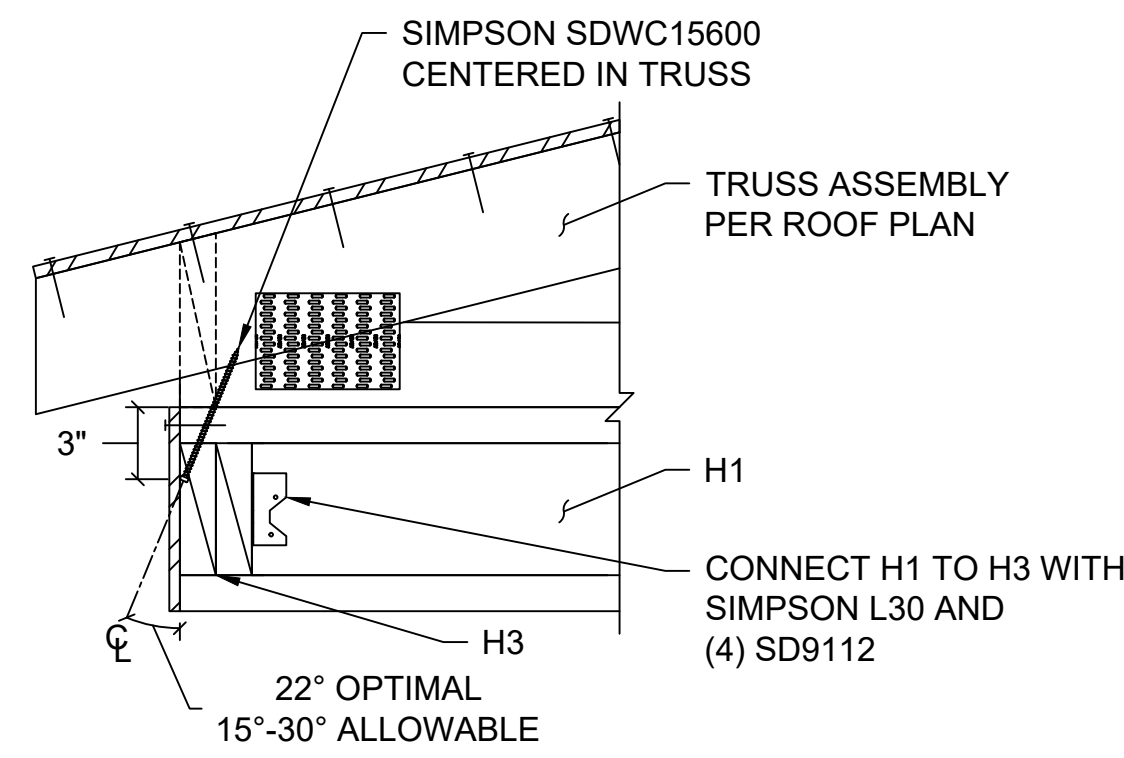
SIMPSON MSTA36

WALL 8



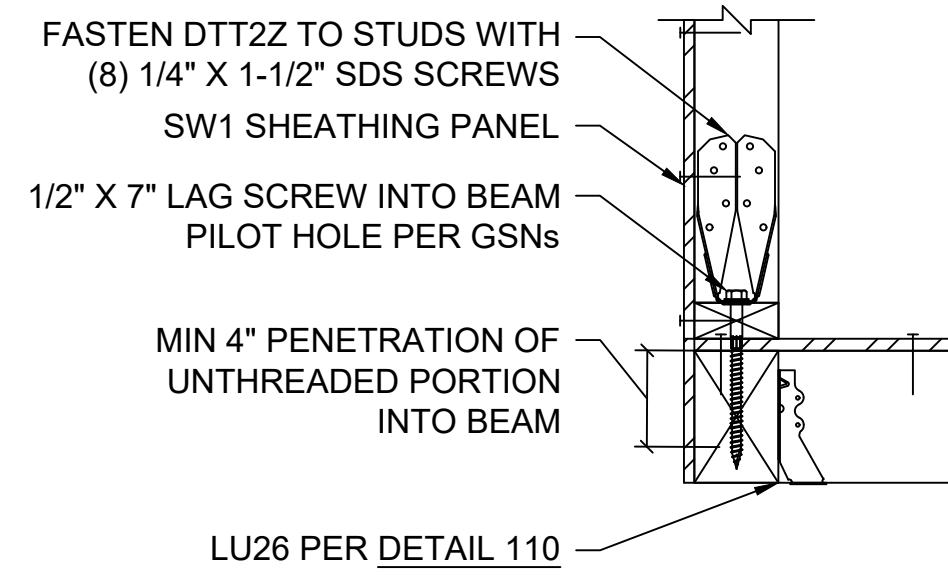


101 INTERIOR TRUSS TO TOP PLATE CONNECTION  
SCALE = 1-1/2" = 1'

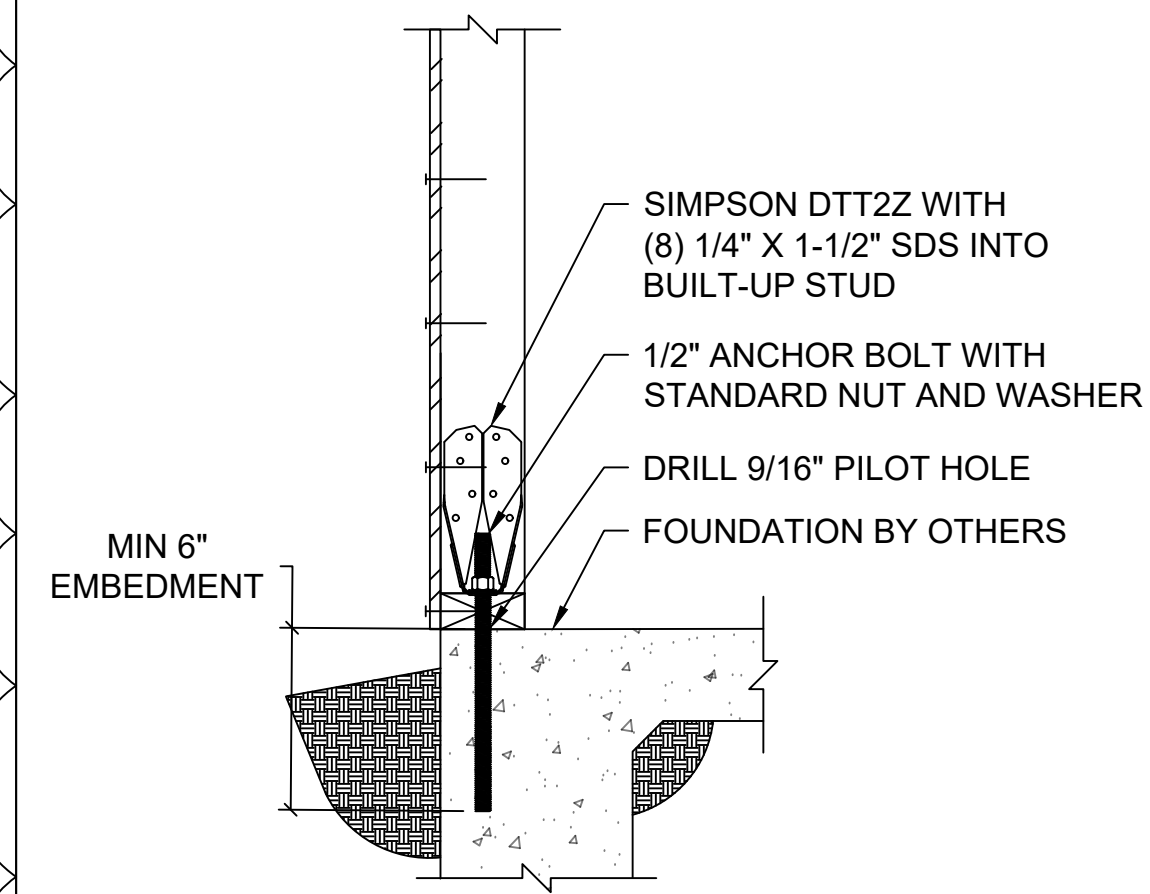


102 SECOND LEVEL INTERIOR CORNER DETAIL  
SCALE = 1-1/2" = 1'

NOTE: CANTILEVER BEAM NOT SHOWN FOR CLARITY  
NOTE: DIAPHRAGM EDGE NAILS SHOWN AS OFFSET FROM BEAM CL FOR CLARITY

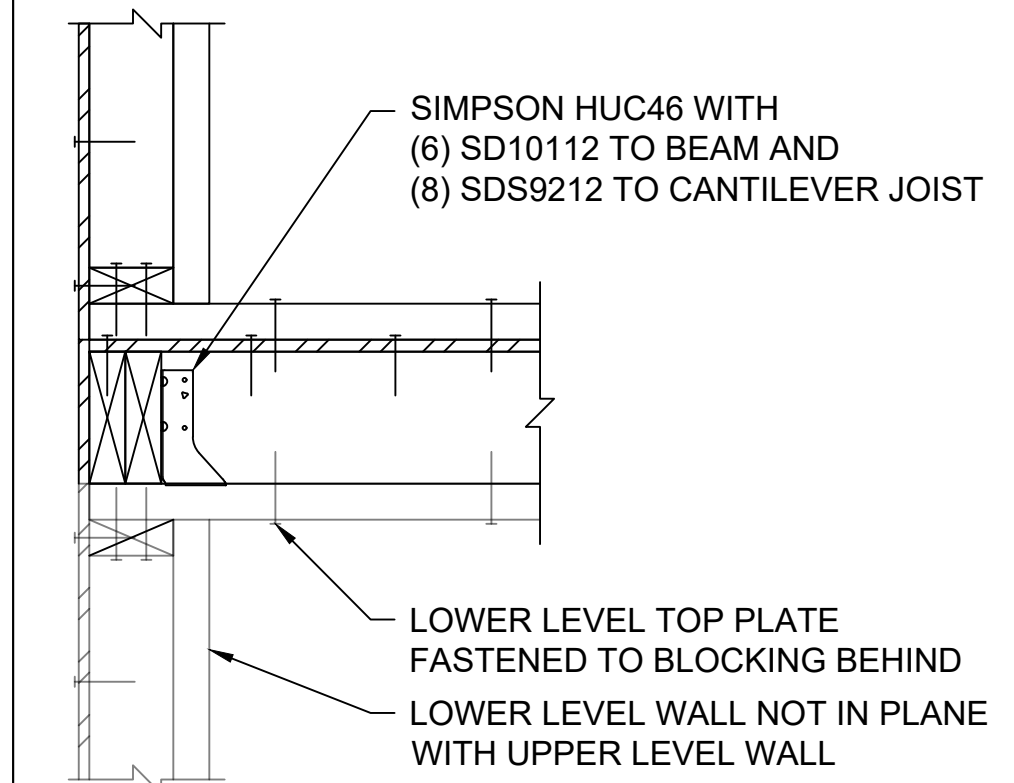


103 DTT2Z HOLD DOWN WITH LAG SCREW  
SCALE = 1-1/2" = 1'

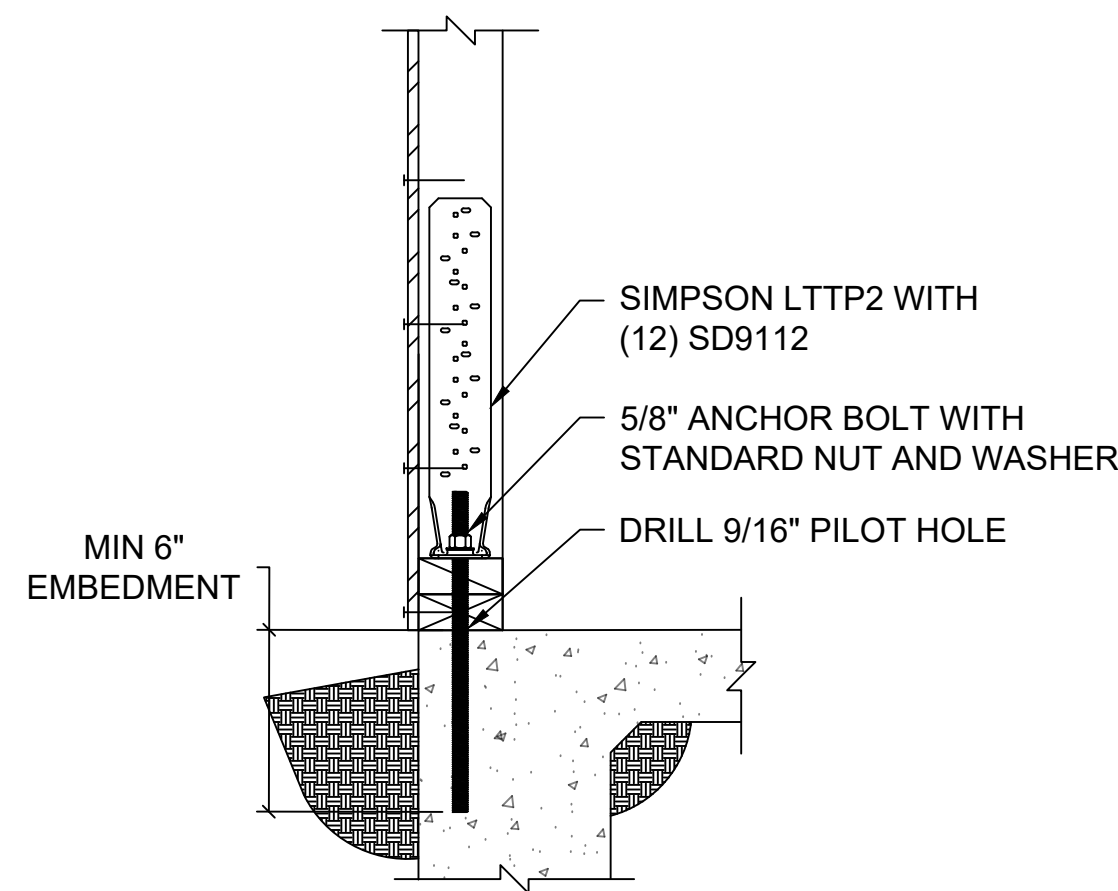


104 DTT2Z HOLD DOWN AT FOUNDATION  
SCALE = 1-1/2" = 1'

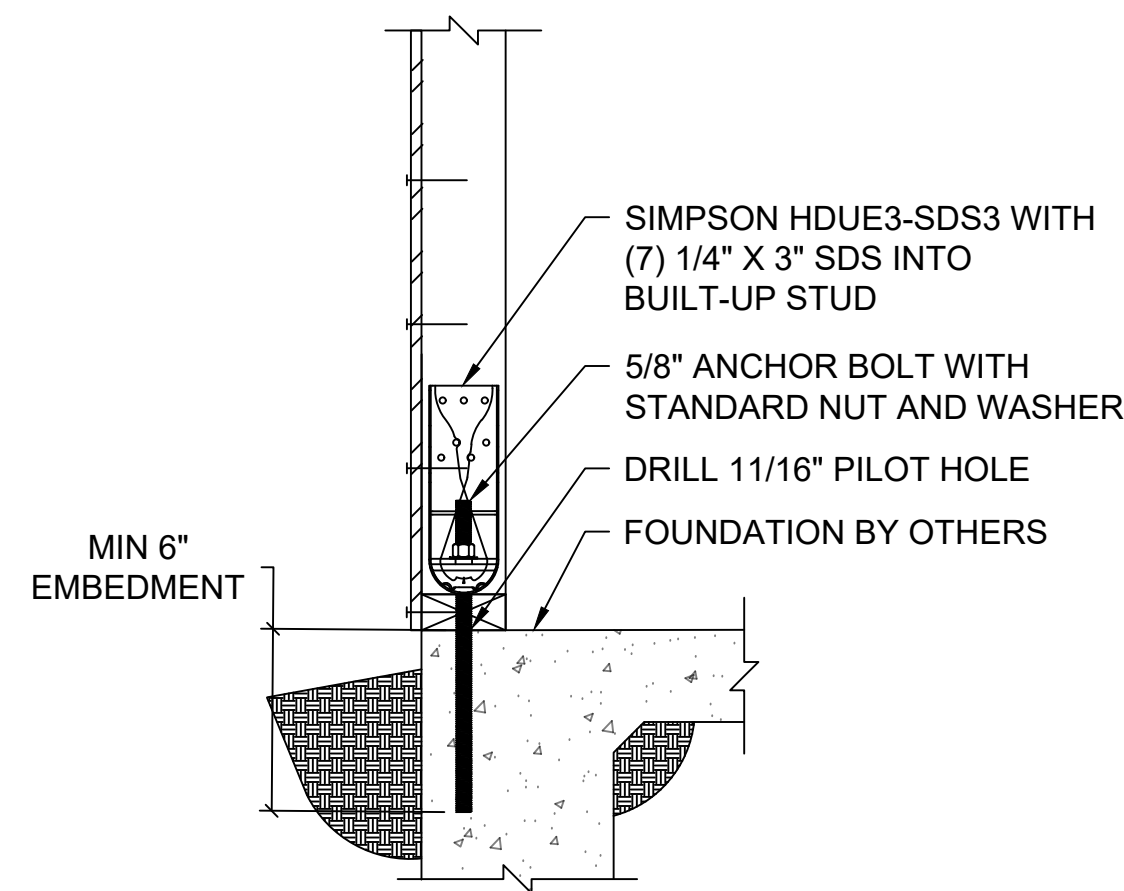
NOTE: SEE SECOND LEVEL PLAN FOR BEAM TO JOIST ALIGNMENT



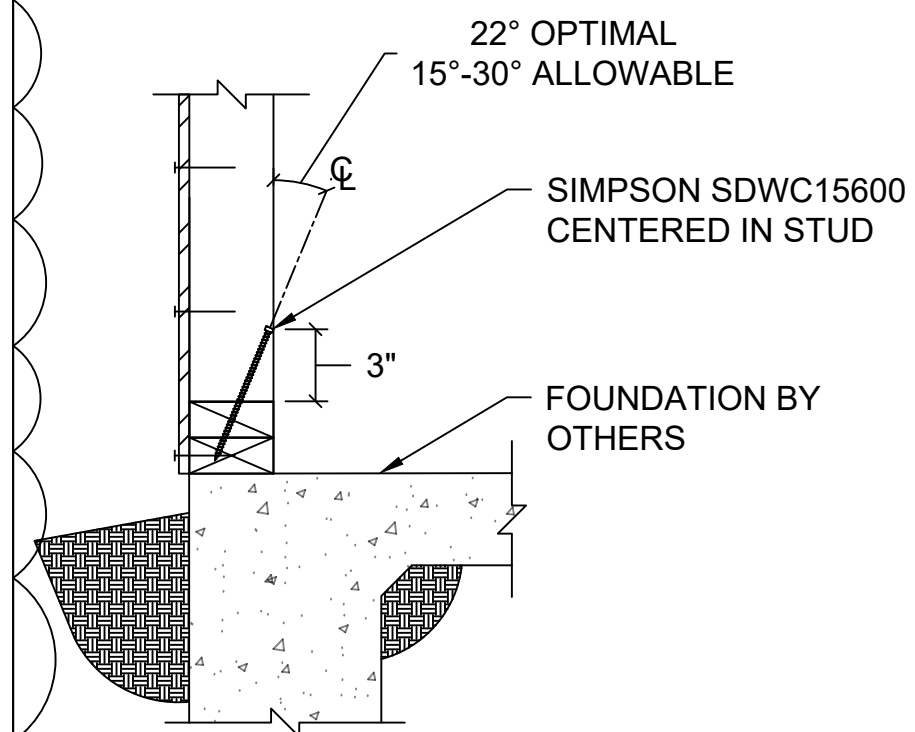
105 CANTILEVER BEAM AT CANTILEVER RIM JOIST  
SCALE = 1-1/2" = 1'



106 LTT2 HOLD DOWN AT FOUNDATION  
SCALE = 1-1/2" = 1'

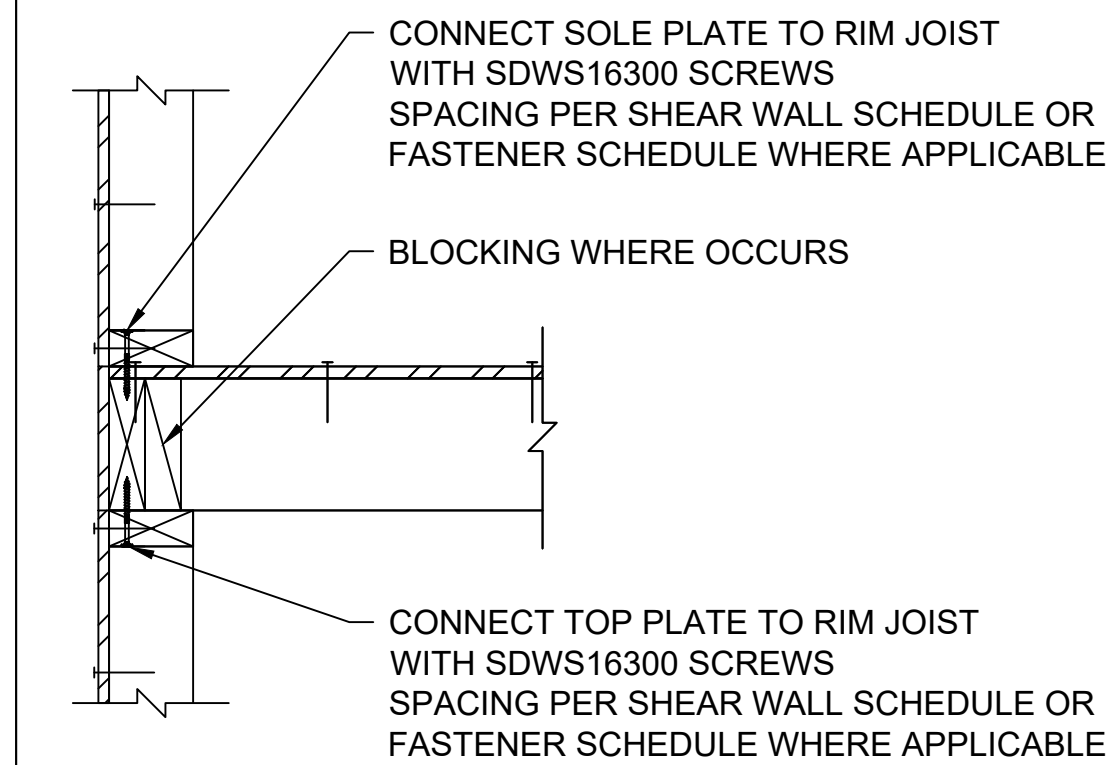


107 HDUE3-SDS3 HOLD DOWN AT FOUNDATION  
SCALE = 1-1/2" = 1'



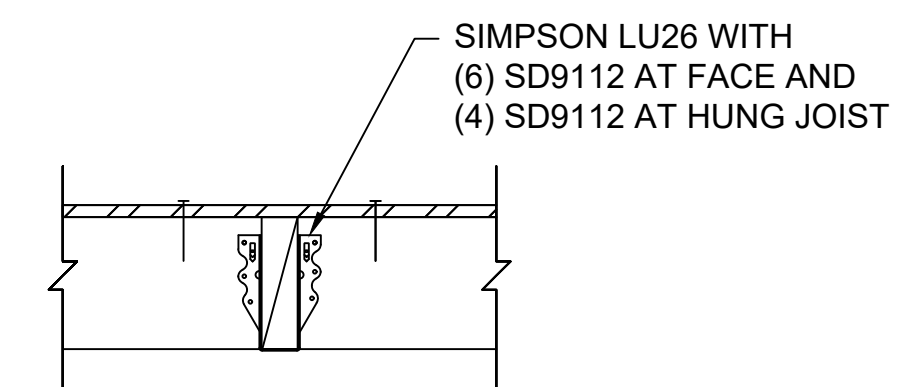
108 STUD AT DOUBLE BOTTOM PLATE  
SCALE = 1-1/2" = 1'

NOTE: CANTILEVER BEAM NOT SHOWN FOR CLARITY  
NOTE: DIAPHRAGM EDGE NAILS SHOWN AS OFFSET FROM JOIST CL FOR CLARITY



109 TYPICAL WALL-TO-FLOOR CONNECTION  
SCALE = 1-1/2" = 1'

NOTE: SEE FASTENING SCHEDULE FOR JOIST TO RIM JOIST FASTENING



110 TYPICAL JOIST AT INTERSECTING JOIST OR BEAM  
SCALE = 1-1/2" = 1'