

MODEL NO.	W (in.)	H (in.)	ANCHOR BOLTS		TOTAL WALL WEIGHT (lb.)
			QUANTITY	DIA. (in.)	
WSWH12x7	12	84	2	1	105
WSWH18x7	18	84	2	1	155
WSWH12x8	12	96	2	1	120
WSWH18x8	18	96	2	1	175
WSWH24x8	24	96	2	1	225
WSWH12x9	12	108	2	1	130
WSWH18x9	18	108	2	1	195
WSWH24x9	24	108	2	1	250
WSWH12x10	12	120	2	1	145
WSWH18x10	18	120	2	1	210
WSWH24x10	24	120	2	1	275
WSWH12x12	12	144	2	1	165
WSWH18x12	18	144	2	1	245
WSWH24x12	24	144	2	1	325
WSWH18x14	18	168	2	1	285
WSWH24x14	24	168	2	1	370
WSWH24x16	24	192	2	1	420
WSWH18x20	18	240	2	1	390
WSWH24x20	24	240	2	1	520

STRONG-WALL® WSWH MODELS



STRONG-WALL®
HIGH STRENGTH
WOOD SHEARWALL

HEAVY HEX NUT AND HEAVY
BEARING PLATE

SEE SHEETS WSWH1 AND
WSWH1.1 FOR ANCHORAGE
SOLUTIONS

FRAMING BY OTHERS (NOT SHOWN FOR CLARITY)

FRAMING BY OTHERS (TYPICAL)

SILL PLATE ANCHORAGE BY OTHERS

STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL

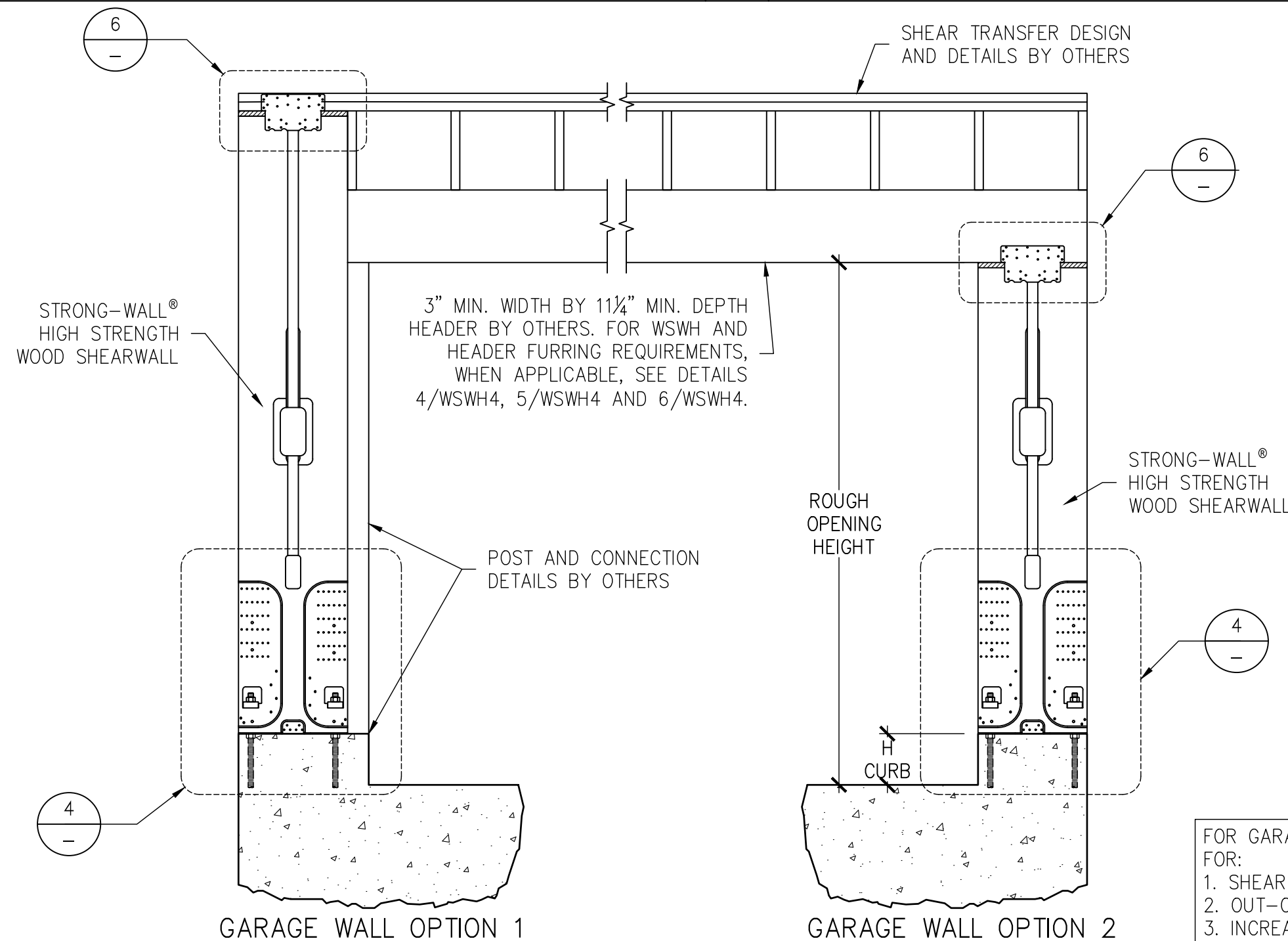
NAILING BY OTHERS

JOIST HANGER (IF REQUIRED)

SEE SHEETS WSWH1 AND WSWH1.1 FOR ANCHORAGE SOLUTIONS

SECTION

WOOD FLOOR SYSTEM BASE CONNECTION



GARAGE HEADER ROUGH OPENING HEIGHT			
MODEL NO.	TRIMMED PANEL HEIGHT	H CURB	ROUGH OPENING HEIGHT
WSWH12x7 WSWH18x7 WSWH24x7	78"	5½"	6"-11½"
		6"	7"-0"
WSWH12x8 WSWH18x8 WSWH24x8	85½"	0"	7"-1½"
	93¾"	5½"	8"-2¾"
		6"	8"-3¾"

FOR GARAGE WALL OPTION 2, DESIGNER SHALL DESIGN AND DETAIL FOR:

1. SHEAR TRANSFER
2. OUT-OF-PLANE LOADING EFFECT
3. INCREASED OVERTURNING AND DRIFT DUE TO ADDITIONAL HEIGHT

ALTERNATE WSWH GARAGE FRONT OPTIONS

4

STANDARD INSTALLATION BASE CONNECTION

WSWH-TP CONNECTION		
MODEL NO.	FASTENER QUANTITY	
	SWS16150	SDS25600
WSWH-TP12	14	2
WSWH-TP18	26	4
WSWH-TP24	46	8

ATTACH WSWH-TP PLATE (PROVIDED) ON ONE SIDE ONLY WITH A COMBINATION OF SDS 1/4"x6" AND SWS16150 CONNECTOR SCREWS.

ALIGN WSWH-TP NOTCHES WITH BOTTOM OF TOP PLATES

INSTALL SDS 1/4"x6" SCREWS AT AN ANGLE THAT PREVENTS THEM FROM EXITING SIDE OF FRAMING; APPROX. 30 DEGREES (TYP.)

TOP PLATES

WOOD SHIM, FOR SHIMS GREATER THAN 7/8", SEE 9/WSWH2.

7/8" MAXIMUM

OPTIONAL 1" DIAMETER BY 1/4" DEEP COUNTERBORE

SWS16150

SDS25600

SECTION 4x FRAMING

INSTALL WSWH-TP ON EXTERIOR FACE

1" DIAMETER BY 1/4" DEEP COUNTERBORE

STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL

FURRING NOT REQUIRED EXCEPT AS REQUIRED FOR FINISH MATERIAL ATTACHMENT

SECTION 6x FRAMING

TOP CONNECTION

WSWH – TP CONNECTION		
MODEL NO.	FASTENER QUANTITY	
	SWS16150	SDS25600
WSWH – TP12	28	4
WSWH – TP18	52	8
WSWH – TP24	92	16

ATTACH WSWH-TP (PROVIDED)
WITH A COMBINATION OF
SDS25600 AND SWS16150
CONNECTOR SCREWS.

TOP
PLATES

7/8" MAXIMUM
WOOD SHIM, FOR
SHIMS GREATER
THAN 7/8", SEE
9/WSWHZ.

OPTIONAL 1"
DIAMETER BY 1/4"
DEEP COUNTERBORE

ALIGN WSWH-TP
NOTCHES WITH BOTTOM
OF TOP PLATES

1/4" x PANEL WIDTH
x 3" WOOD FURRING

SWS16150

MAX. 7/8" SHIM
AS NECESSARY
FOR TIGHT FIT

SDS25600

STRONG-WALL®
HIGH STRENGTH
WOOD SHEARWALL

APPROX.
30 DEGREES (TYP.)

INSTALL WSWH-TP
ON BOTH SIDES

1/4" x PANEL WIDTH
x 3" WOOD FURRING

1" DIAMETER BY 1/4"
DEEP COUNTERBORE

SECTION
8x FRAMING

BACK-TO-BACK TOP CONNECTION

QTY. OF SDS $\frac{1}{4}$ "x6" SCREWS REQ'D.	
WSWH12	4
WSWH18	8
WSWH24	16

SLOPE	A (in.)	B (in.)
0:12-4:12	2	3
5:12-8:12	1½	4½
9:12-12:12	1½	5½

1" MIN. FROM EDGE

1 1/4" MIN. ROW SPACING

1/2" MIN. AT EDGE

1/2" MIN. SDS TIP TO CHASE

1 3/8" O.C. MIN.

PLAN VIEW
SDS SCREW SPACING

DOUBLE TOP PLATES

SIMPSON STRONG-TIE® LTP FRAMING ANCHOR

SIMPSON STRONG-TIE® A35 FRAMING ANCHORS

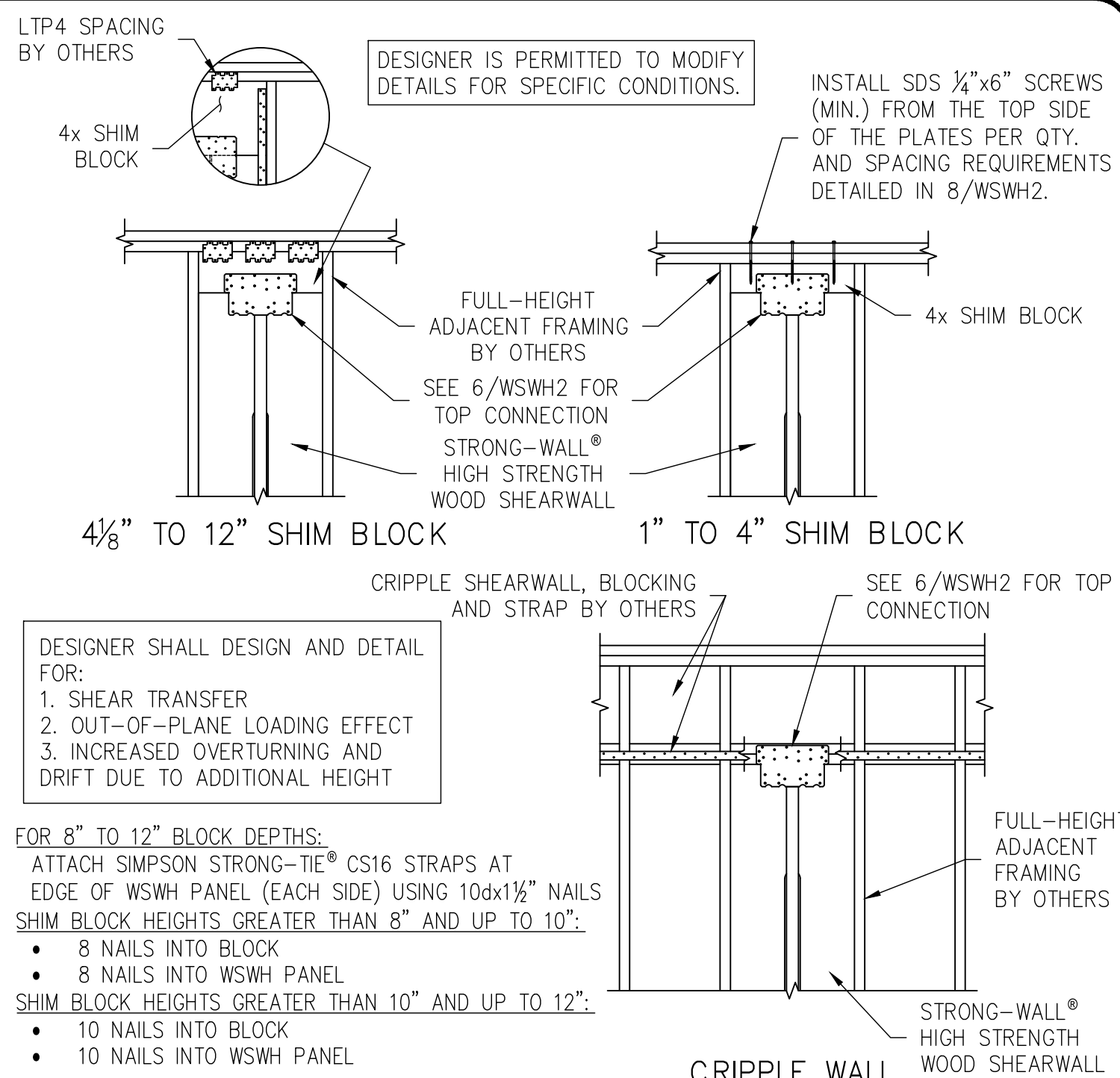
STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL

SECTION VIEW
2X6 OR WIDER FRAMING

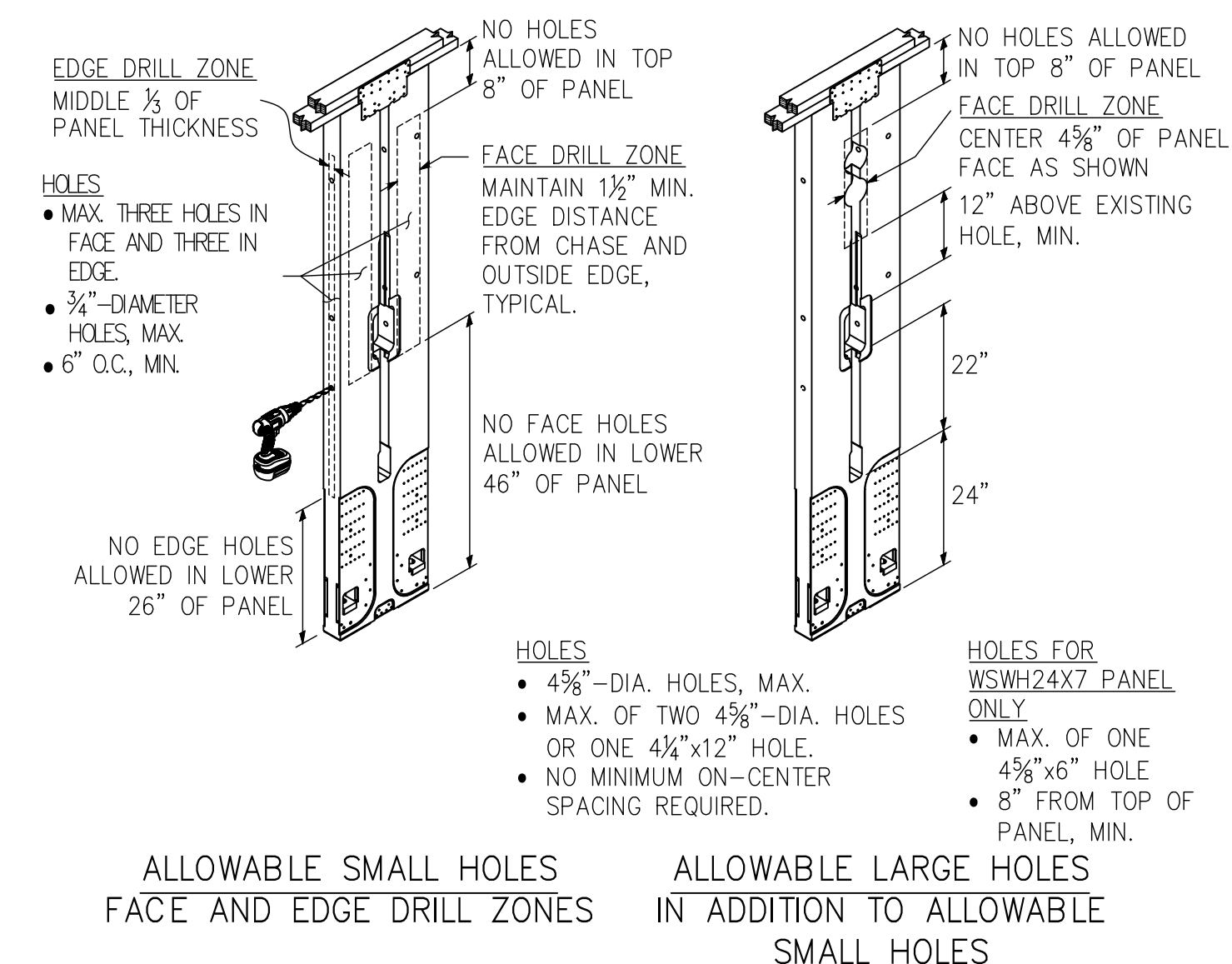
RAKE WALL

6

TOP CONNECTION



TOP OF WALL HEIGHT ADJUSTMENTS



TRIM ZONE AND ALLOWABLE HOLES

1. STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL IS MANUFACTURED AND TRADEMARKED BY "SIMPSON STRONG-TIE COMPANY INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY INC." IS AN ISO 9001-2008 REGISTERED COMPANY.
2. USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
3. THIS PRODUCT IS PART OF THE OVERALL LATERAL FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S LATERAL FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER LATERAL FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE DESIGNER.
4. ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ELEVATIONS, ETC. PRIOR TO INSTALLATION OF ALL COMPONENTS FOR THE STRONG-WALL SB SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THE SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
6. INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE DESIGNER.
7. SIMPSON STRONG-TIE COMPANY INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
8. ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.
9. SEE ICC-ES ESR-2652 OR CITY OF LOS ANGELES RR25730 AS APPLICABLE FOR ADDITIONAL INFORMATION.

NOTES

1.

NO.	DATE	REVISIONS
0	11-20-2020	FIRST RELEASE - 2018 IBC
1	03-16-2021	2021 IBC REVISIONS

SIMPSON Strong-Tie, Co. Inc.

SIMPSON Strong
 ● 5956 W. Las Positas Blvd.
 Pleasanton, CA 94588
 ● Tel: (800) 999-5099
 ● Website: www.strongtie.com



THERE IS NO EQUAL

STRONG-WALL® WSWH

FRAMING DETAILS ENGINEERED DESIGNS

THERE IS NO EQUAL

NAME
DATE 03-16-2021
SCALE N.T.S.
CHECKED
SHEET

WSWH2

OF SHEETS

DB NO.