



**TABLE S601.7 - UPLIFT CONNECTIONS - 140 MPH WINDS EXP "B"**  
NFCM 2015 TABLE 3.2

CONNECTION	FRAMING SPACING (INCHES)	ROOF SPAN (FEET)	UPLIFT	LATERAL	SHEAR	NUMBER OF 8d COMMON NAILS OR 10d BOX NAILS IN EACH END OF 1-1/4" X 20 GAGE STRAP
ROOF ASSEMBLY TO WALL ASSEMBLY	16" OC	16	401	292	152R	4
WALL ASSEMBLY TO FOUNDATION	16" OC	16	224	219	436	4

**TABLE S601.8 - SILL OR BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING UPLIFT LOADS - 140 MPH WIND EXP "B"**  
NFCM 2015 TABLE 3.2C

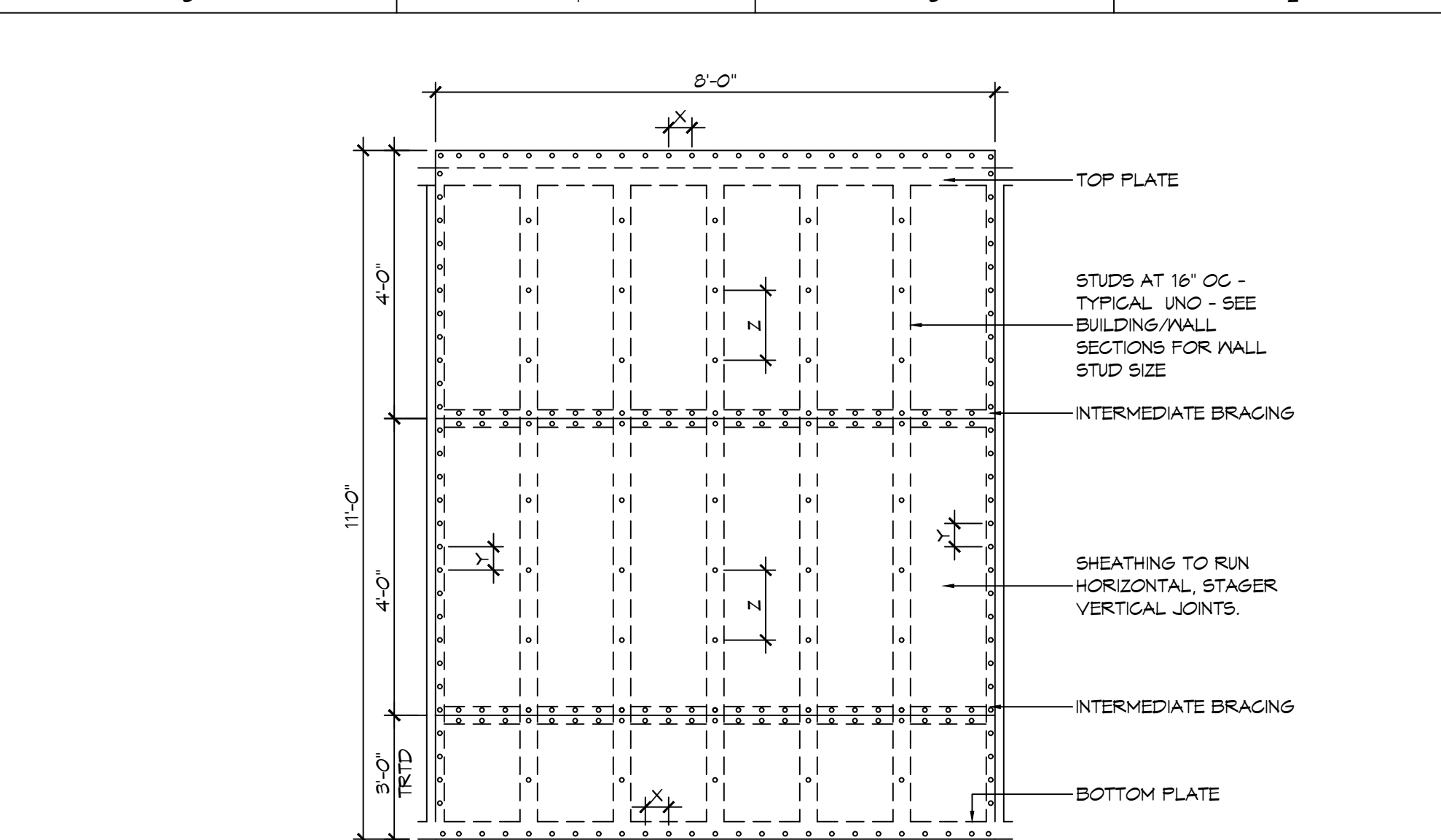
BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAXIMUM ANCHOR BOLT SPACING (INCHES)	
		8' END ZONES	INTERIOR ZONES
UPLIFT LOADS	1 - 3 STORIES	25 INCHES ON CENTER	30 INCHES ON CENTER

**TABLE S601.9 - SILL OR BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING SHEAR LOADS - 140 MPH WIND EXP "B"**  
NFCM 2015 TABLE 3.2B

BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAXIMUM ANCHOR BOLT SPACING (INCHES)	
		5/8" Ø ANCHOR BOLTS	48 INCHES ON CENTER W/3X3X1/4" WASHER
UPLIFT LOADS	4 STORY		

**TABLE S601.10 - FULL HEIGHT STUD REQUIREMENT FOR HEADERS OR WINDOW SILL PLATES IN EXTERIOR WALLS EXPOSURE "B"**  
NFCM 2015 TABLE 3.23C

HEADER SPAN (FEET)	WALL SPACING (INCHES)		
	12" O.C.	16" O.C.	24" O.C.
2	1	1	1
4	2	2	1
6	3	3	2
8	4	3	2



**NAIL SPACING**  
X = 4" OC  
Y = 4" OC  
Z = 12" OC

X = PLATE EDGE NAIL SPACING  
Y = LONG EDGE NAIL SPACING  
Z = FIELD NAIL SPACING

**INTERIOR SHEATHING**  
1/2" PLYWOOD EACH FACE STAGGERED 48" OC. W/8d NAILS @ 4" O.C. FASTENING @ PANEL EDGES 8d NAILS @ 12" O.C. FASTENING @ INTERMEDIATE MEMBERS.

**EXTERIOR SHEATHING**  
5/8" PLYWOOD EACH FACE STAGGERED 48" OC. W/8d NAILS @ 4" O.C. FASTENING @ PANEL EDGES 8d NAILS @ 12" O.C. FASTENING @ INTERMEDIATE MEMBERS.

**H SHEAR WALL EXTERIOR SHEATHING NAILING PATTERN**

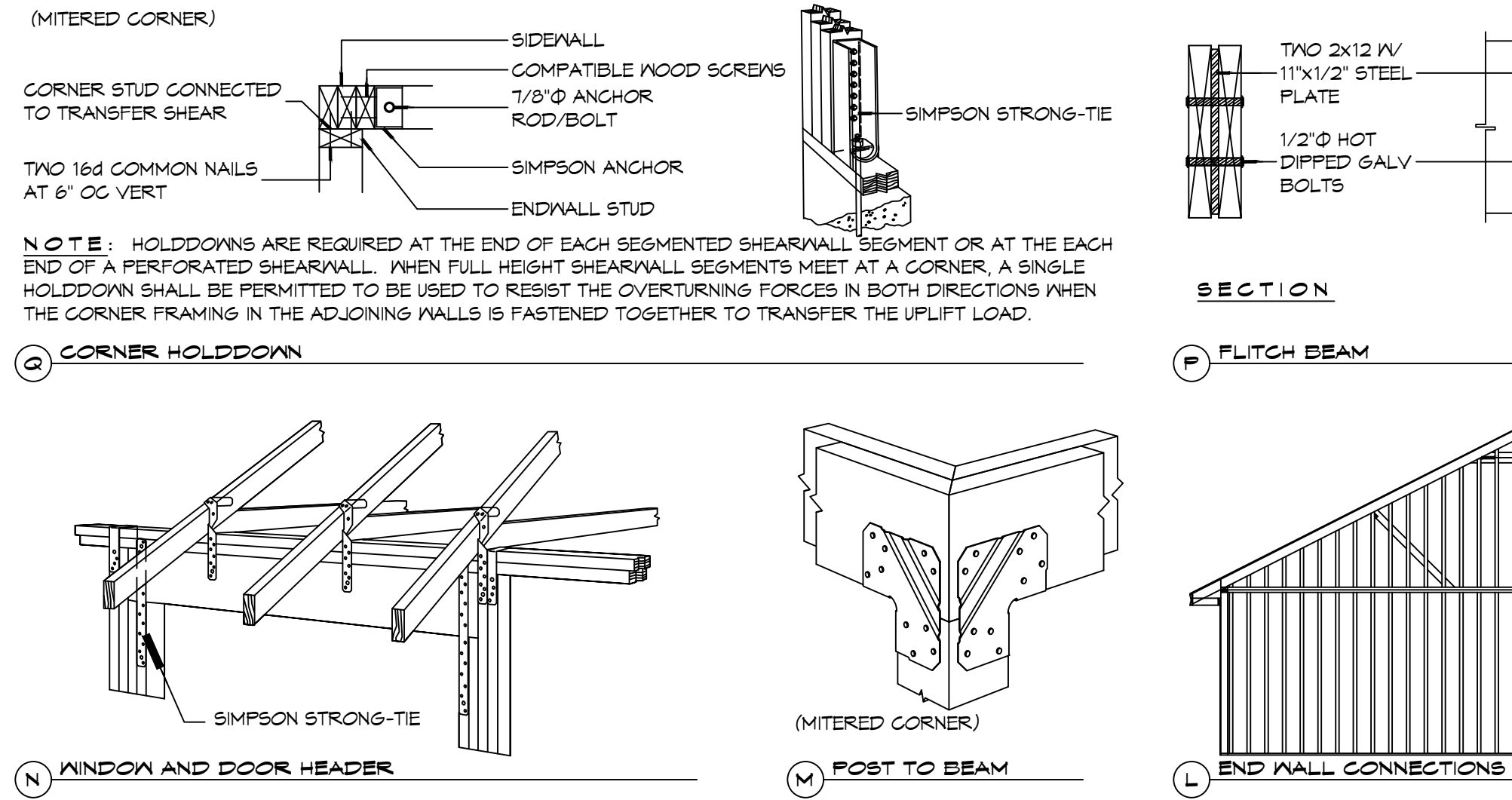
**TABLE S601.5 - JACK STUD REQ - INT LOADBEARING WALLS**

HEADER SUPPORTING	HEADER SPAN (FT)	ROOF SPAN (FEET)											
		12 FEET				24 FEET				36 FEET			
		3"	4.5"	5"	6.5"	3"	4.5"	5"	6.5"	3"	4.5"	5"	6"
ONE FLOOR ONLY (CENTER BEARING)	2	1	1	1	1	1	1	1	1	1	1	1	1
	4	1	1	1	1	1	1	1	1	1	1	1	1
	6	1	1	1	1	1	1	1	1	2	1	1	1
	8	1	1	1	1	2	1	1	1	2	2	2	1
	10	1	1	1	1	2	2	1	1	3	2	2	2
	12	1	1	1	1	2	2	2	1	3	2	2	2
	14	2	1	1	1	3	2	2	2	4	3	3	2
	16	2	2	1	1	3	2	2	2	4	3	3	2
	2	1	1	1	1	1	1	1	1	2	1	1	1
	4	1	1	1	1	2	1	1	1	3	2	2	2
6	2	1	1	1	3	2	2	2	4	3	2	2	
8	2	2	1	1	3	2	2	2	5	3	3	3	
10	2	2	2	1	4	3	3	2	6	4	4	3	
12	3	2	2	2	5	3	3	3	7	5	4	4	
14	3	2	2	2	6	4	4	3	8	5	5	4	
16	4	3	2	2	6	4	4	3	9	6	6	5	

**TABLE S601.6 - JACK STUD REQ - EXTERIOR LOADBEARING WALLS**  
NFCM 2021 TABLE 3.22F

ROOF AND CEILING	HEADER WIDTH - 3" (2-2x), 4.5" (3-2x), 5", 6.5" (4-2x) EACH 1/2" PLYWOOD SPACER BETWEEN	ROOF LIVE LOAD 20 PSF				ROOF LIVE LOAD 30 PSF			
		3"	4.5"	5"	6.5"	3"	4.5"	5"	6.5"
		NUMBER OF JACK STUDS REQUIRED							
2		1	1	1	1	1	1	1	1
4		1	1	1	1	1	1	1	1
6		2	1	1	1	2	1	1	1
8		2	2	2	1	2	2	2	1
10		3	2	2	2	3	2	2	2
12		3	2	2	2	3	2	2	2
14		4	3	2	2	4	3	2	2
16		4	3	3	2	4	3	3	2
2		1	1	1	1	1	1	1	1
4		2	1	1	1	2	1	1	1
6		2	2	2	1	3	2	2	2
8		3	2	2	2	3	2	2	2
10		4	3	2	2	4	3	3	2
12		4	3	3	2	5	3	3	3
14		5	4	3	3	5	4	3	3
16		6	4	4	3	6	4	4	3

HEADER WIDTH - 3" (2-2x), 4.5" (3-2x), 5", 6.5" (4-2x) EACH 1/2" PLYWOOD SPACER BETWEEN



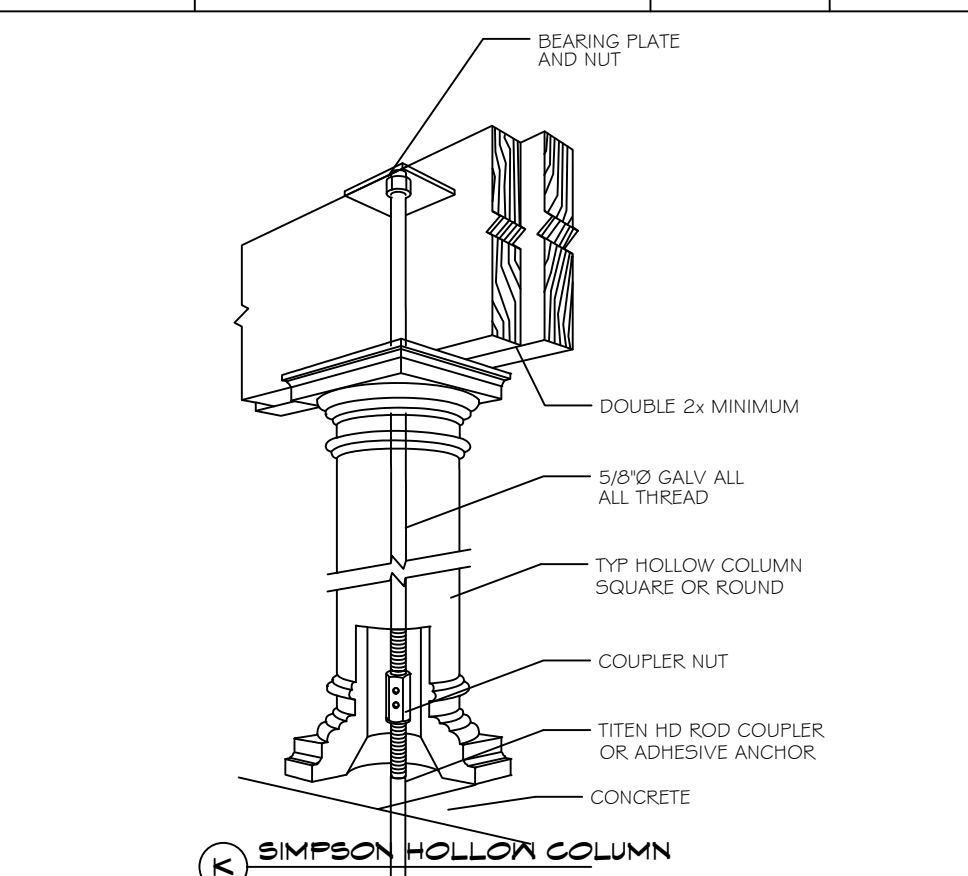
**G CORNER HOLDDOWN**, **H WINDOW AND DOOR HEADER**, **I POST TO BEAM**, **J END WALL CONNECTIONS**, **K SIMPSON M5TAM56**, **L FLITCH BEAM**

**TABLE S601.3 - NAILING SCHEDULE**  
NFCM 2015 TABLE 3.1

DESCRIPTION	NUMBER OF COMMON NAILS	NUMBER OF BOX NAILS	SPACING
HEADER TO HEADER (FACE NAILED)	16d	16d	16" OC EDGES

**TABLE S601.4 - BUILDING ENVELOPE REQUIREMENTS**

ROOFS	OPAQUE ELEMENTS	ASSEMBLY MAXIMUM	INSULATION MIN. R-VALUE
	INSULATION ENTIRELY ABOVE DECK	U-0.048	R-20.0 c.i.
WALLS, ABOVE GRADE	METAL BUILDING	U-0.065	R-19
	ATTIC AND OTHER	U-0.027	R-38
	MASS	U-0.151	R-5.7 c.i.
FLOORS	METAL BUILDING	U-0.113	R-19.0
	STEEL-FRAMED	U-0.124	R-19.0
	WOOD-FRAMED AND OTHER	U-0.089	R-19.0
SLAB-ON-GRADE	MASS	U-0.107	R6-3 c.i.
	STEEL JOIST	U-0.052	R-19.0
	WOOD FRAMED AND OTHER	U-0.051	R-19.0
OPAQUE DOORS	UN-HEATED	F-0.750	NR
	SWINGING	U-0.700	NR
	NON-SWINGING	U-1.450	NR



**K SIMPSON HOLLOW COLUMN**

**METAL ROOF APPLICATION & FASTENING NOTES**

1. INSTALL 26 GAUGE METAL ROOF PER MANUFACTURER'S RECOMMENDATIONS FOR 140 MPH WIND SPEED.

**GENERAL UPLIFT CONNECTION NOTES**

**ROOF ASSEMBLY TO WALL ASSEMBLY:** UPLIFT CONNECTIONS SHALL BE FROM RAFTER OR TRUSS TO WALL STUD. WHEN RAFTERS OR TRUSSES ARE NOT LOCATED DIRECTLY ABOVE STUDS, RAFTERS SHALL BE ATTACHED TO THE WALL PLATE AND THE WALL TOP PLATE SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE S601.10.

**WALL ASSEMBLY TO WALL ASSEMBLY:** STORY TO STORY UPLIFT CONNECTIONS FROM UPPER STORY WALL STUD TO LOWER STORY WALL STUD. WHEN UPPER STORY WALL STUDS ARE NOT LOCATED DIRECTLY ABOVE LOWER WALL STUDS, THE STUDS SHALL BE ATTACHED TO A COMMON MEMBER IN THE WALL STUD ASSEMBLY BY UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE S601.11.

**WALL ASSEMBLY TO FOUNDATION:** FIRST FLOOR WALL STUDS SHALL BE CONNECTED TO THE FOUNDATION, SILL PLATE, OR BOTTOM PLATE. A MINIMUM OF A 1-1/4" X 20 GA. ASTM A653 GRADE 33 STEEL STRAP SHALL BE NAILED TO THE WALL STUD. WALL STUDS HAVE A MINIMUM EMBEDMENT OF 1 INCHES IN CONCRETE FOUNDATIONS AND SLABS-ON-GRADE, 15 INCHES IN MASONRY BLOCK FOUNDATIONS, OR BE LAPPED UNDER THE BOTTOM PLATE, 3 INCH SQUARE WASHERS SHALL BE USED ON THE ANCHOR BOLTS AND ANCHOR BOLT SPACINGS SHALL NOT EXCEED THE REQUIREMENTS. STEEL STRAPS EMBEDDED IN OR IN CONTACT WITH SLAB-ON-GRADE OR MASONRY BLOCK FOUNDATIONS SHALL BE HOT-DIPPED GALV. AFTER FABRICATION, OR MANUF. FROM G105 OR 2450 GALV. STL. CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE S601.12.

**TABLE S601.1 - ROOF SHEATHING ATTACHMENT REQUIREMENT - WIND LOAD EXP "B"**

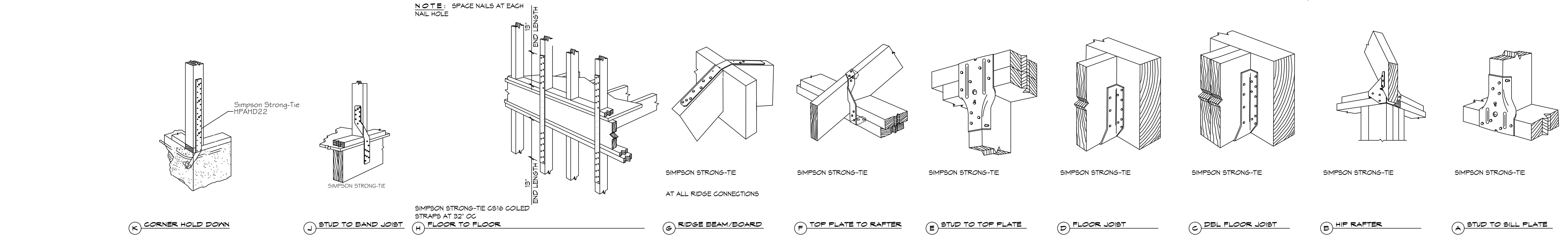
SHEATHING LOCATION	RAFTER / TRUSS SPACING	E F	
		MAX NAIL SPACING FOR 8d COMMON NAILS OR 10d BOX NAILS (INCHES OC)	
INTERIOR ZONE	12" OC	6	12
	16" OC	6	12
	24" OC	6	12
PERIMETER EDGE ZONE	12" OC	6	6
	24" OC	4	4

140 MPH WIND - EXPOSURE "B" TYPICAL  
E = NAIL SPACING AT PANEL EDGES, INCHES.  
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

**TABLE S601.1 - WALL SHEATHING AND CLADDING REQUIREMENT - WIND LOAD EXP "B"**

SHEATHING LOCATION	RAFTER / TRUSS SPACING	E F	
		MAX NAIL SPACING FOR 8d COMMON NAILS OR 10d BOX NAILS (INCHES OC)	
INTERIOR ZONE	12" OC	6	12
	16" OC	6	12
	24" OC	6	6
PERIMETER EDGE ZONE	12" OC	6	12
	16" OC	6	12

140 MPH WIND - EXPOSURE "B" TYPICAL  
E = NAIL SPACING AT PANEL EDGES, INCHES.  
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.



**TYPICAL CONNECTION DETAILS**

SCALE: NTS

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DATE	REVISIONS	DESCRIPTION

SEAL:

**FOUNDATION PLAN**  
**RICHARD J. ROGERATH JR.**  
180 WEST PINEWOOD  
SLIDELL, LA 70458  
JOB No: 09-31-2025  
DRAWN BY: DD/KJK  
CHECKED BY: CKD

SHEET TITLE: TYPICAL CONNECTION DETAILS, SCHEDULES, AND NOTES  
DRAWING NUMBER: S102  
SHEET No: 2 of 2