

**TABLE 5601.7 - UPLIFT CONNECTIONS - 130 MPH WINDS EXP "C"**  
MFCM 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"x20" GAUGE STRAP
ROOF ASSEMBLY TO WALL ASSEMBLY*	16" OC	16	401	292	153R	4
WALL ASSEMBLY TO FOUNDATION	16" OC	16	224	219	436	4

**TABLE 5601.8 - SILL OR BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING UPLIFT LOADS - 130 MPH WIND EXP "C"**  
MFCM 2015 TABLE 3.2C

NOTE: A MINIMUM OF ONE ANCHOR BOLT SHALL BE PROVIDED WITHIN 6 TO 12 INCHES OF EACH END OF EACH PLATE

UPLIFT LOADS	MAXIMUM ANCHOR BOLT SPACING (INCHES)	
	FOUNDATION SUPPORTING	INTERIOR ZONES
1 - 3 STORIES	8' END ZONES	30 INCHES ON CENTER

**TABLE 5601.9 - SILL OR BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING SHEAR LOADS - 130 MPH WIND EXP "C"**  
MFCM 2015 TABLE 3.2B

UPLIFT LOADS	MAXIMUM ANCHOR BOLT SPACING (INCHES)	
	FOUNDATION SUPPORTING	INTERIOR ZONES
1 STORY	1/2" Ø ANCHOR BOLTS	5/8" Ø ANCHOR BOLTS
	30 INCHES ON CENTER	48 INCHES ON CENTER

**TABLE 5601.10 - FULL HEIGHT STUD REQUIREMENT FOR HEADERS OR WINDOW SILL PLATES IN EXTERIOR WALLS EXPOSURE "C"**  
MFCM 2015 TABLE 3.2C

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

**TABLE 5601.5 - JACK STUD REQ - INT LOADBEARING WALLS**  
MFCM 2015 TABLE 3.2E

HEADER SUPPORTING	HEADER SPAN (FT)	ROOF SPAN (FEET)					
		12 FEET	24 FEET	36 FEET	48 FEET	60 FEET	72 FEET
ONE FLOOR ONLY* (CENTER BEAMS)	2	1	1	1	1	1	1
	4	1	1	1	1	1	1
	6	1	1	1	1	1	1
	8	1	1	1	2	2	2
	10	1	1	1	2	2	2
	12	1	1	1	2	2	2
	14	2	1	1	2	2	2
	16	2	2	1	2	2	2
	18	2	2	1	2	2	2
TWO FLOORS (CENTER BEAMS)	2	1	1	1	1	1	1
	4	1	1	1	1	1	1
	6	2	1	1	1	1	1
	8	2	2	1	1	1	1
	10	2	2	1	1	1	1
	12	3	2	2	1	1	1
	14	3	2	2	2	1	1
	16	4	3	2	2	1	1

**TABLE 5601.2 - WALL SHEATHING OR CLADDING REQUIREMENT - WIND LOAD EXP "C"**

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

**ROOF UNDERLAYMENT NOTES**

- FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE) UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), UNDERLAYMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:
  - AFTER A 1/8 INCH STRIP OF UNDERLAYMENT FELT PARALLEL WITH AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE UNDER THE EAVES, APPLY 36 INCH WIDE SHEETS OF UNDERLAYMENT PARALLEL WITH AND STARTING 12 INCHES FROM THE PERIMETER EDGE OF THE ROOF, FASTENED SUFFICIENTLY TO HOLD IN PLACE UNDER THE EAVES, AND FASTENED SUFFICIENTLY TO HOLD IN PLACE UNDER THE PERIMETER EDGE OF THE ROOF.
  - FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) OR GREATER, UNDERLAYMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER:
    - UNDERLAYMENT SHALL BE APPLIED SINGLE PLY, PARALLEL TO AND STARTING FROM THE EAVES AND LAPPED 2 INCHES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6 FEET.

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**TABLE 5601.6 - JACK STUD REQ - EXTERIOR LOADBEARING WALLS**  
MFCM 2015 TABLE 3.2E

HEADER WIDTH - 3" (2-2X), 4.5" (3-2X), 5", 6.5" (4-2X) EACH W/ 1/2" PLYWOOD SPACER BETWEEN	ROOF LIVE LOAD 30 PSF					
	3'	4.5'	5'	6.5'	8'	9.5'
2	1	1	1	1	1	1
4	1	1	1	1	1	1
6	2	2	1	1	2	1
8	2	2	2	1	2	2
10	3	2	2	2	2	2
12	3	2	2	2	2	2
14	4	3	2	2	2	2
16	4	3	3	2	2	2
18	5	4	3	3	2	2

**TABLE 5601.4 - BUILDING ENVELOPE REQUIREMENTS**

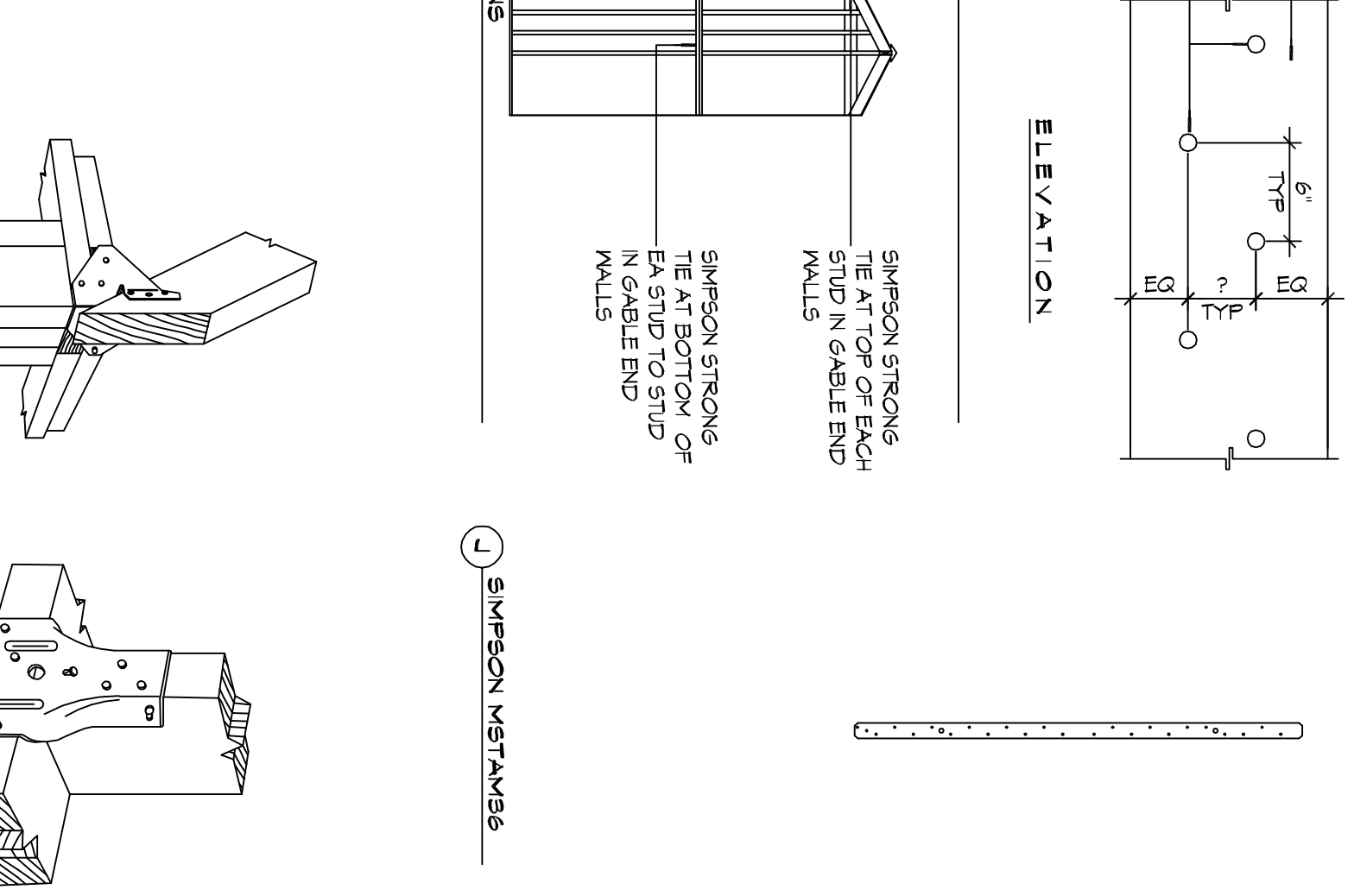
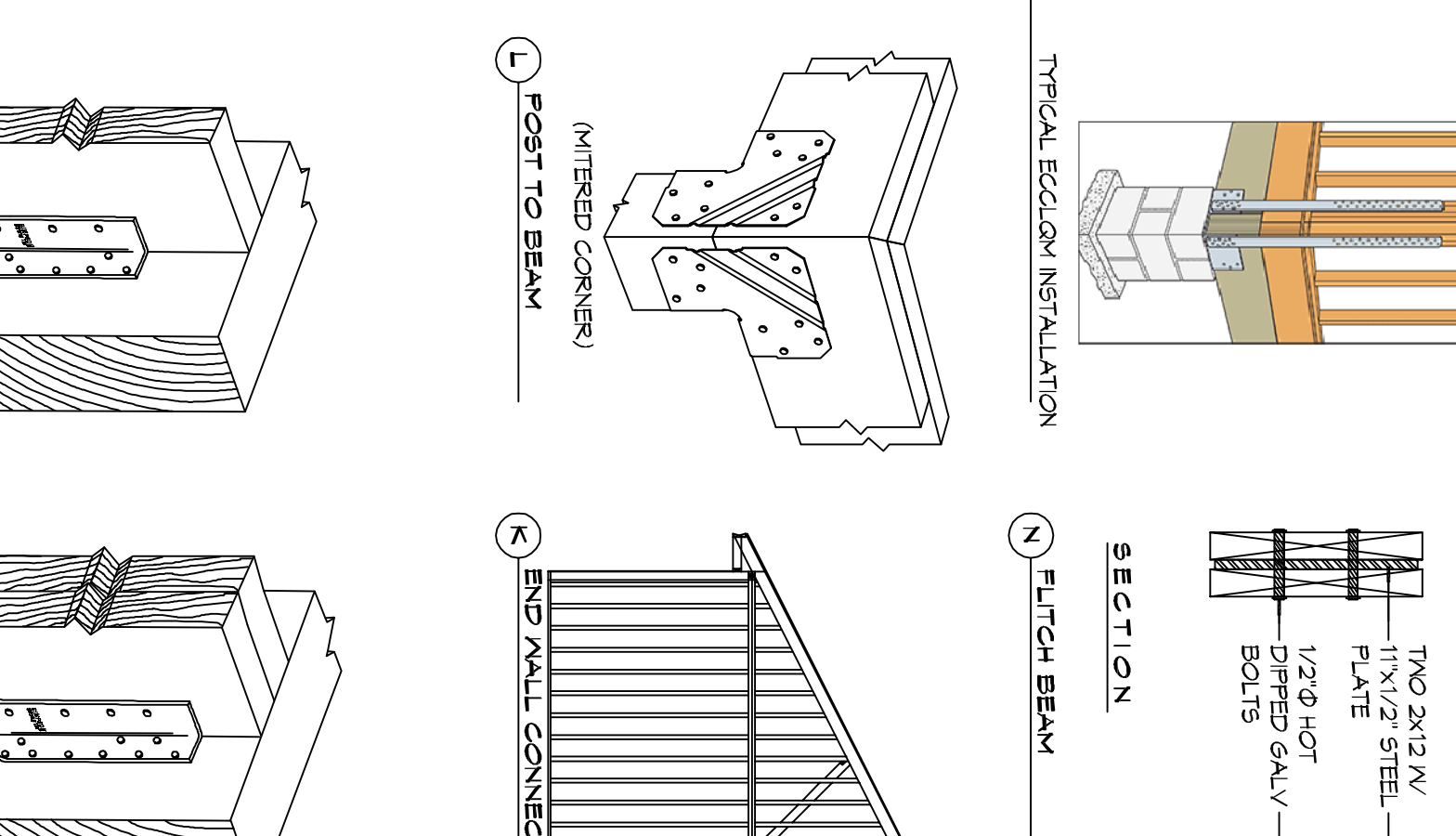
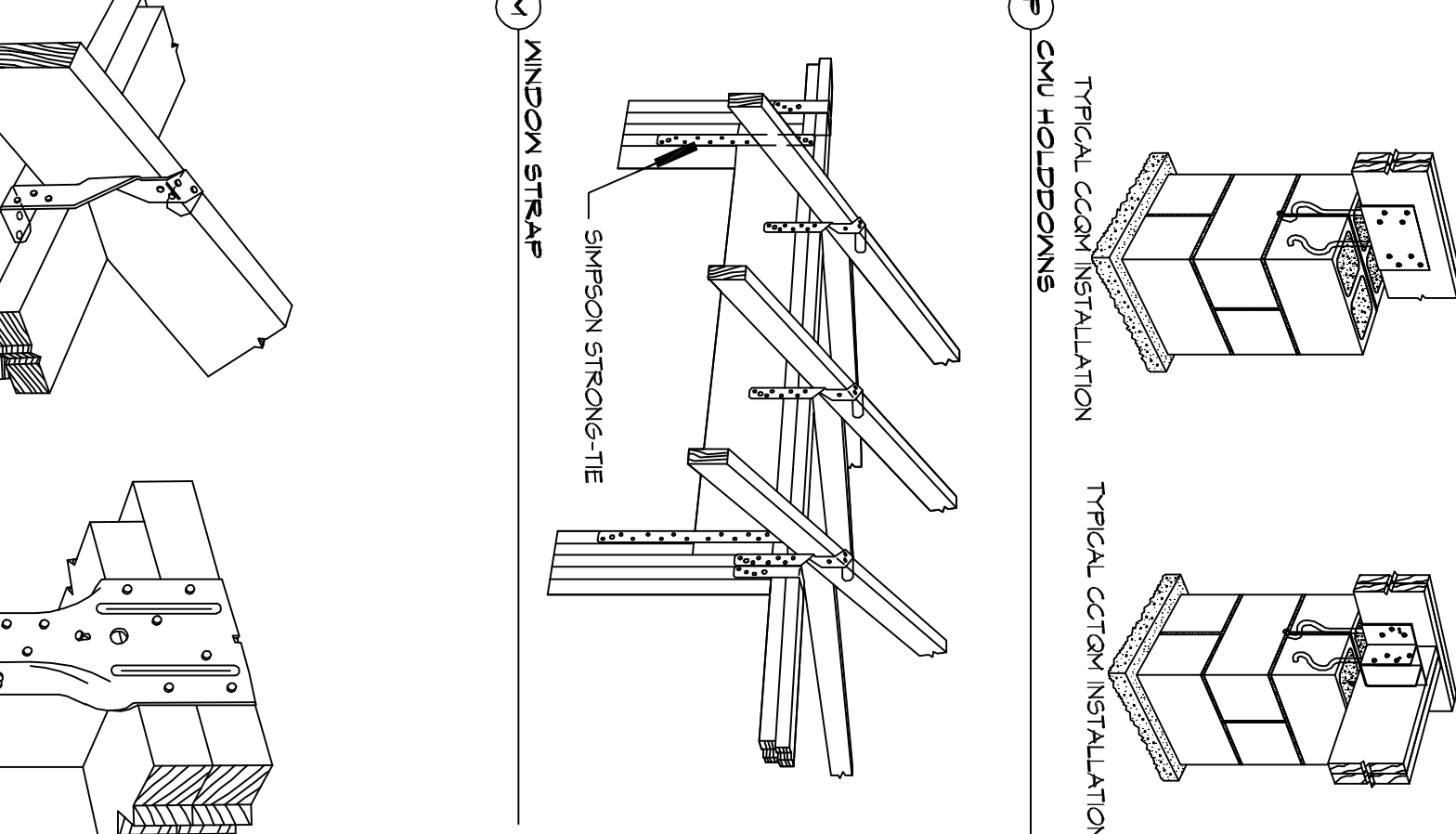
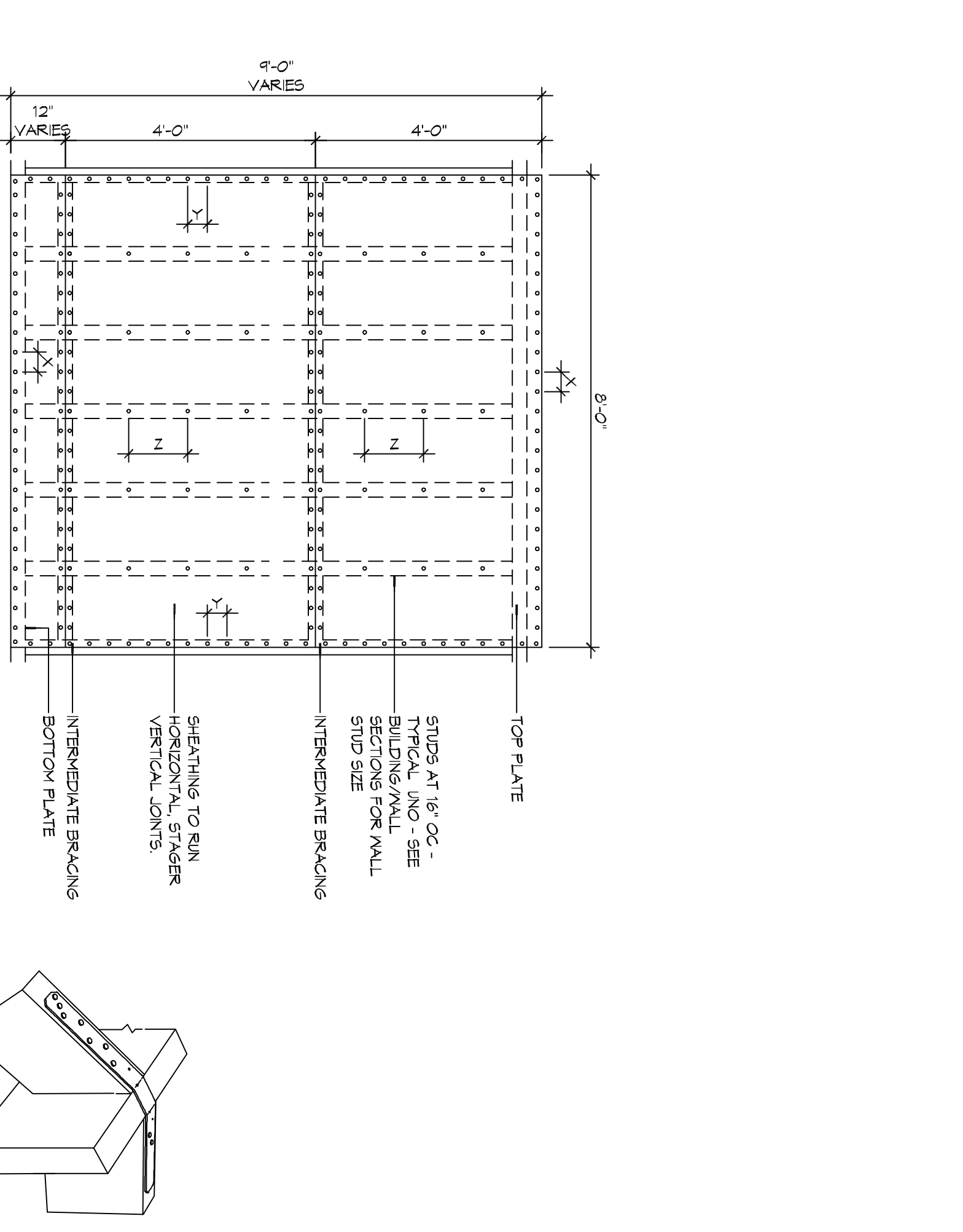
OPaque ELEMENTS	ASSEMBLY	INSULATION
ROOFS	INSULATION DIRECTLY ABOVE DECK	R-30.0 CL
	METAL BUILDING	R-19
	ATIC AND OTHER	R-30
	MASS	U-0.151
WALLS, ABOVE GRADE	METAL BUILDING	R-11.9
	STEEL-FRAMED	R-10.124
	WOOD-FRAMED AND OTHER	U-0.084
	MASS	U-0.107
FLOORS	STEEL JOIST	U-0.092
	WOOD FRAMED AND OTHER	U-0.091
SLAB-ON-GRADE	UNHEATED	F-0.130
OPaque DOORS	SWINGING	U-0.700
	NON-SWINGING	U-1.450

**SHINGLE APPLICATION & FASTENING NOTES**

- ASPHALT STRIP SHINGLES SHALL HAVE A MINIMUM OF SIX FASTENERS PER SHINGLE WHERE THE ROOF IS IN ONE OF THE FOLLOWING:
  - THE BASIC WIND SPEED IS 110 MPH OR GREATER AND THE EAVE IS 20 FEET OR HIGHER ABOVE GRADE.
  - THE BASIC WIND SPEED IS 120 MPH OR GREATER.
  - GENERAL WIND ZONES.

**REVISIONS**

#	DESCRIPTION	DATE



**GENERAL UPLIFT CONNECTION NOTES**

**ROOF ASSEMBLY TO WALL ASSEMBLY:**  
UPLIFT CONNECTIONS SHALL BE FROM RAFTER OR TRUSS TO WALL. STUDS 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 5601.10.

**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 A563 GRADE 36 STEEL STRAP SHALL BE NAILED TO THE WALL STUDS AND HAVE A MINIMUM EMBEDMENT OF 1 INCHES IN CONCRETE FOUNDATIONS AND BE NAILED UNDER THE BOTTOM PLATE. 3 INCH SQUARE ANCHERS 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 6/16S OR 2/4S GALV. STEEL CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE 5601.12.

**TABLE 5601.1 - ROOF SHEATHING OR CLADDING REQUIREMENT - WIND LOAD EXP "C"**

SHEATHING LOCATION	RAFTERS / TRUSSES SPACING	E	F
INTERIOR ZONE	12" OC	6	12
	16" OC	6	12
	24" OC	6	6
PERIMETER EDGE ZONE	12" OC	6	6
	16" OC	4	4
	24" OC	3	3

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

**1 TYPICAL CONNECTION DETAILS (130 MPH WIND EXP "C")**

SCALE: NTS

**5102**

SHEET NO. 4 OF 4

**DAMMON ENGINEERING, INC.**

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JOB No: 2251 DATE: 05-05-17

DRAWN BY: CKD CHECKED BY: BAM

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