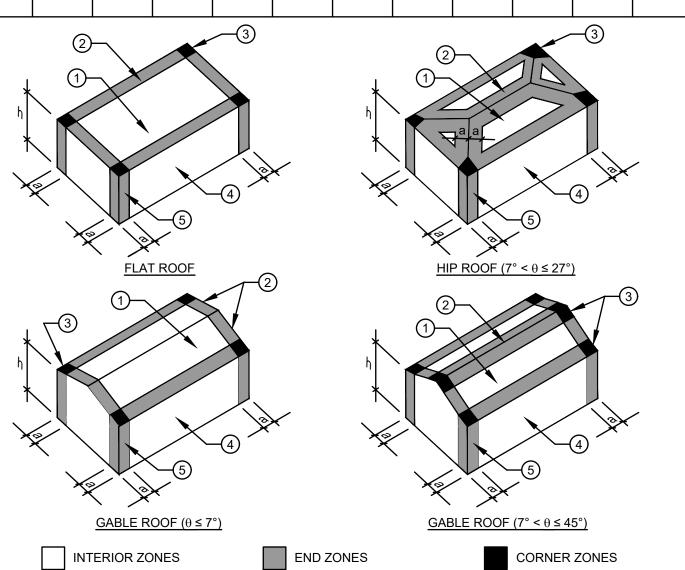
COMPONENTS & CLADDING WIND PRESSURES (PSF) 115 MPH (3 SEC GUST), EXPOSURE C, LRFD

ZONE		HEIGHT																		
	0	0-15'		15-20'		20-25'		25-30'		30-35'		35-40'		40-45'		45-50'		50-55'		55-60'
1	+16.0	-28.8	+16.0	-30.7	+16.0	-32.1	+16.0	-33.3	+16.0	-34.5	+16.0	-35.5	+16.0	-36.4	+16.0	-37.1	+16.0	-37.8	+16.0	-38.6
2	+16.0	-48.3	+16.0	-51.5	+16.0	-53.9	+16.0	-55.9	+16.0	-57.9	+16.0	-59.5	+16.0	-61.0	+16.0	-62.2	+16.0	-63.4	+16.0	-64.6
3	+16.0	-72.7	+16.0	-77.5	+16.0	-81.1	+16.0	-84.1	+16.0	-87.1	+16.0	-89.5	+16.0	-92.0	+16.0	-93.8	+16.0	-95.6	+16.0	-97.4
4	+28.8	-31.2	+30.7	-33.3	+32.1	-34.8	+33.3	-36.1	+34.5	-37.4	+35.5	-38.4	+36.4	-39.5	+37.1	-40.2	+37.8	-41.0	+38.6	-41.8
5	+28.8	-38.6	+30.7	-41.2	+32.1	-43.1	+33.3	-44.7	+34.5	-46.3	+35.5	-47.5	+36.4	-48.8	+37.1	-49.8	+37.8	-50.7	+38.6	-51.7

COMPONENTS & CLADDING WIND PRESSURE TABLE (1)

- WIND ZONES ARE IN ACCORDANCE WITH ASCE 7-10, FIGURE 30.5-1 WITH A ROOF ANGLE 0° - 7° (FLAT ROOF)
- 2. PRESSURES ARE BASED ON AN EFFECTIVE WIND AREA OF 10 SQUARE FEET.
- 3. PRESSURES SHOWN ARE NOMINAL WIND PRESSURES AT ULTIMATE LOAD LEVEL (LRFD) AND SHALL BE USED IN ACCORDANCE WITH THE LOAD COMBINATIONS SPECIFIED IN ASCE 7-10, CHAPTER 2.
- 4. DESIGNER MAY USE THE APPROPRIATE ADJUSTMENT FACTORS OR METHODS OF ASCE 7-10 TO COMPUTE COMPONENT & CLADDING PRESSURES FOR SPECIFIC COMPONENTS OF THIS STRUCTURE.
- 5. PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE, FOR EXPOSURE & HEIGHT INDICATED ON THE TABLE. ADJUST TO OTHER CONDITIONS USING
- 6. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
- 10 PERCENT OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN 4% OF LEAST HORIZONTAL DIMENSION OR 3 FT (0.9 m).
- MEAN ROOF HEIGHT, IN FEET (METERS), EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ROOF ANGLES <10°.
- 0: ANGLE OF PLANE OF ROOF FROM HORIZONTAL, IN DEGREES.

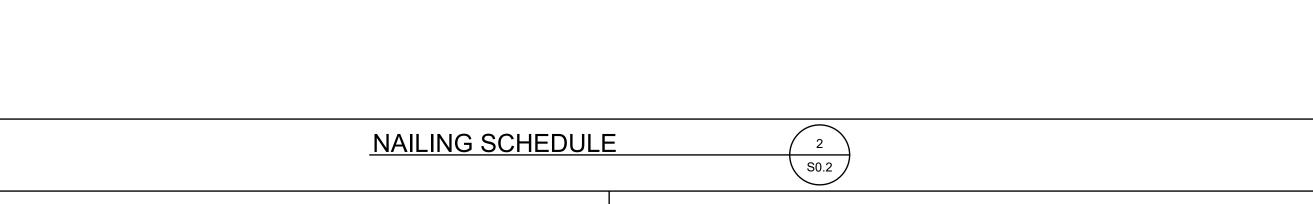


CONNECTION TYPE: CONNECTION TYPE: 14. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL (2-16D) 1. JOIST TO SILL OR GIRDER, TOENAIL 2. BRIDGING TO JOIST, TOENAIL EACH END 15. CONTINUOUS HEADER, TWO PIECES (16d @ 16" O.C. ALONG EDGE) 3. 1"x6" (25MMx152MM) SUBFLOOR OR LESS TO JOIST, FACE NAIL 16. CEILING JOISTS TO PLATE, TOENAIL 17. CONTINUOUS HEADER TO STUD, TOENAIL (4-8d) 4. WIDER THAN 1" X 6"(25MMx152MM) SUBFLOOR TO JOIST, FACE NAIL 5. 2" (52MM) SUBFLOOR TO GIRDER, BLIND AND FACE NAIL 18. CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL (3-16d) 19. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL (16d @16" O.C.) (3-16d) 6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL 20. RAFTER TO PLATE, TOENAIL 7. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED W. PANELS 21. 1" (25MM) BRACE TO EACH STUD AND PLATE, FACE NAIL 8. TOP PLATE TO STUD, END NAIL 9. STUD TO SOLE PLATE (2-16d END NAIL) 22. 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL (3-8d)23. WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL 10. DOUBLE STUDS, FACE NAIL (16d @ 24" O.C.) 11. DOUBLE TOP PLATES, TYPICAL FACE NAIL 24. BUILT-UP CORNER STUDS

12. DOUBLE TOP PLATES, LAP SPLICE

14. RIM JOIST TO TOP PLATE, TOENAIL

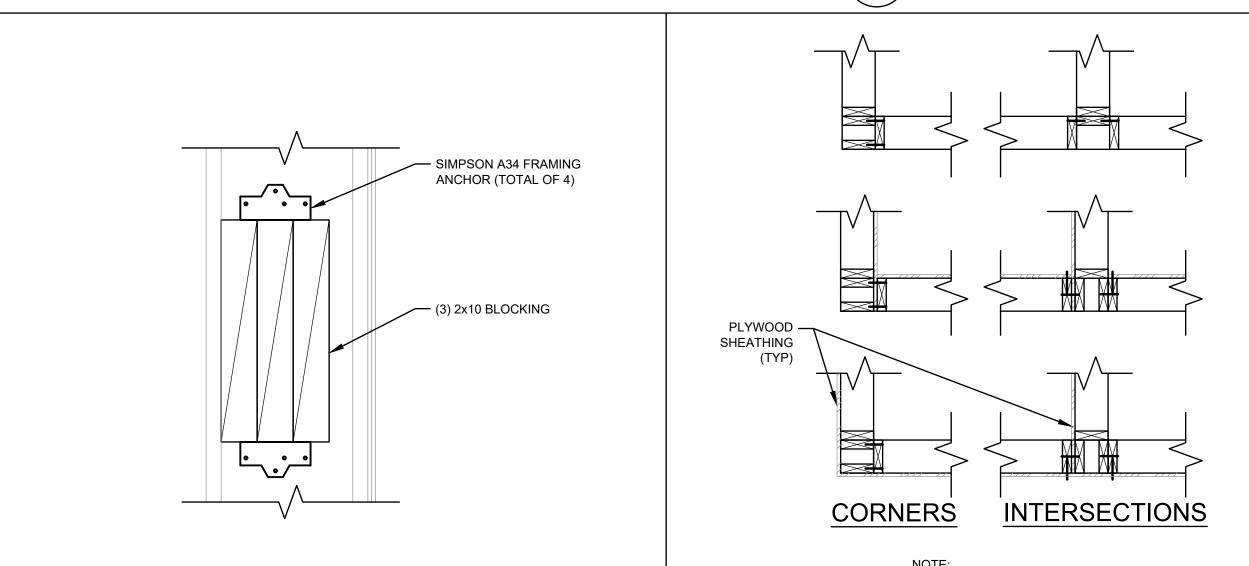
13. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL



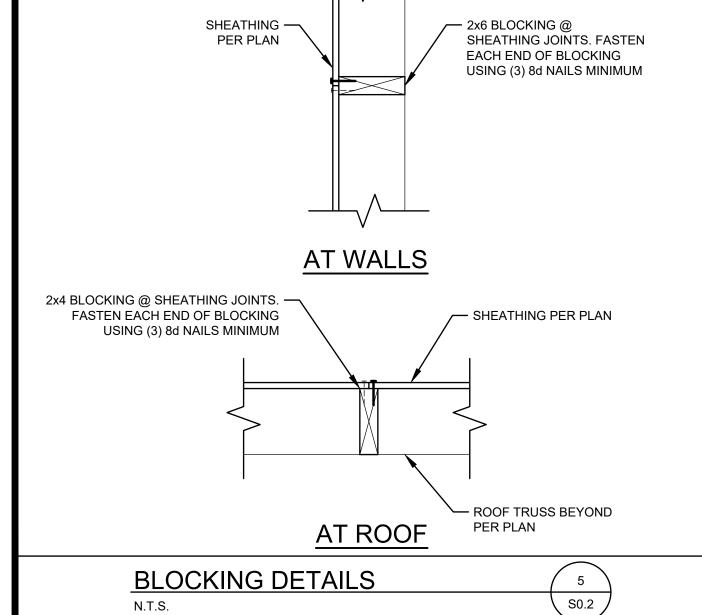
25. 2" PLANKS

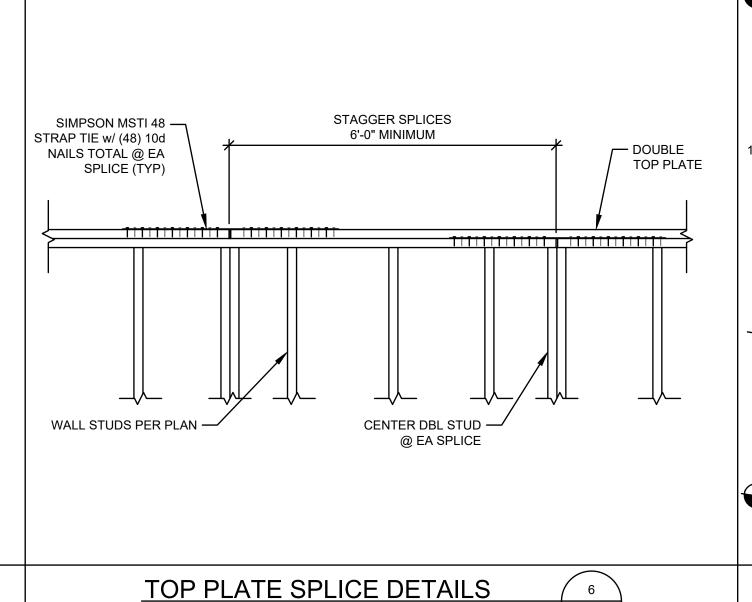
26. 2x6 BOX BEAM / HEADER

27. BUILT-UP GIRDER AND BEAMS



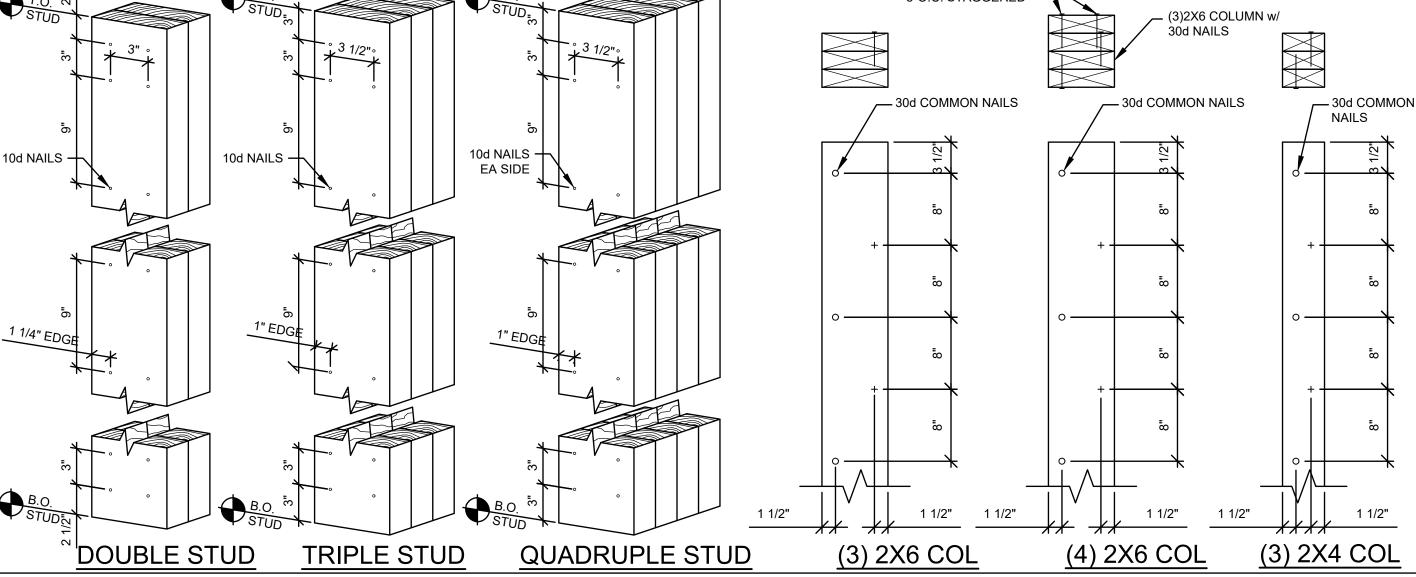
ALL STUDS SHOWN ARE 2x. **BLOCKING DETAIL** WOOD FRAMING DETAILS S0.2 S0.2 N.T.S. N.T.S. (1)2X6 w/ 16d NAILS @ _ 8"O.C. STAGGERED (3)2X6 COLUMN w/ 30d NAILS





S0.2

S0.2



S0.2

BUILT-UP STUD DETAILS

PMA Engineering

(2-16d AT EACH SPLICE)

(20d @ 32" O.C. AT TOP & BOTTOM AND

STAGGERED 2-20d AT ENDS AND AT EACH SPLICE)

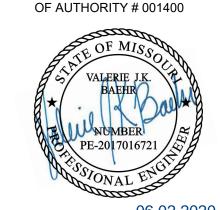
(12d @ 12" O.C.)

6717 Shawnee Mission Pkwy Suite 100, Overland Park, KS 66202 P: (913) 831-1262, F: (913) 831-0148 www.pmaengineering.com

PMA Engineering, c 2020

(PROJECT # P20094) MO CERTIFICATE OF AUTHORITY: 001400

PAGE McNAGHTEN ASSOC., INC. PROFESSIONAL ENGINEERING CORPORATION d/b/a PMA ENGINEERING MISSOURI STATE CERTIFICATE



VALERIE J.K. BAEHR, P.E.

MO# 2017016721

CONTRACT DATE: **BUILDING TYPE:** PLAN VERSION: **BRAND DESIGNER:** X.XXXXX SITE NUMBER: 314544

TACO BELL

STORE NUMBER:

4132 MILLER ST BETHANY, MO



EXPLORER CONVERSION

TYPICAL DETAILS

S0.2