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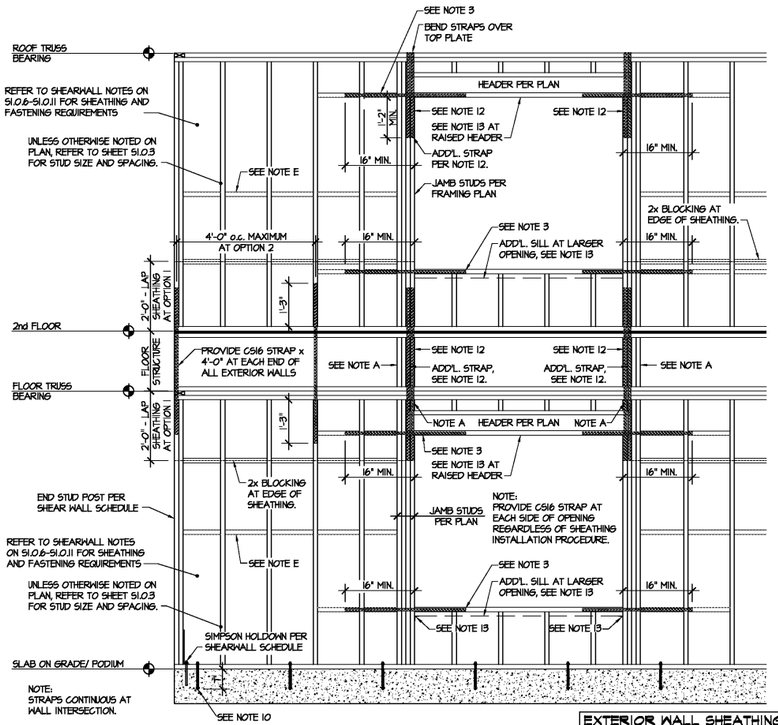


4 **EXTERIOR SHEARWALL ELEVATION (SW-*)**
NOT TO SCALE — REFER TO SHEARWALL PLAN FOR LOCATIONS

HORIZONTAL AND UPLIFT LOAD SYSTEM NOTES

1. SHEARWALLS ARE TO BE SHEATHED AS INDICATED IN SHEARWALL NOTES ON SHEET S1.0.8.
2. ALL NON-SHEARWALL EXTERIOR WALLS AS FOLLOWS U.N.O.: 7/16" OSB SHEATHING WITH 2 STUDS EACH END, ATTACHED WITH 8d NAILS @ 1'/2" x 0.131" COMMON ON EXTERIOR FACE ATTACHED AS FOLLOWS: 6" o.c. AT EDGES AND 12" o.c. IN FIELD AT TOP 2 LEVELS 4" o.c. AT EDGES AND 12" o.c. IN FIELD BELOW.
3. PROVIDE SIMPSON CS14 X 2'-8" LONG ABOVE AND BELOW WINDOW OPENINGS AS SHOWN AT EXTERIOR SHEARWALLS. REFER TO SHEARWALL PLAN ON S1.0.3 FOR LOCATIONS.
4. AT WALLS SUPPORTING ROOF TRUSSES THAT ARE NOT SHEATHED WITH OSB/PLYWOOD THAT IS LAPPED PER OPTION 1 IN 1/S1.0.2, PROVIDE CS16 STRAPS X 4'-6" LONG (TOP OF STRAP TO BE 1'-6" ABOVE TOP OF FLOOR SHEATHING) @ 4'-0" O.C. THROUGH FLOOR TO STUDS BELOW AT EACH FLOOR.
5. TYPICAL ROOF TRUSSES SHALL BE ATTACHED TO THE TOP PLATE WITH SIMPSON HURRICANE TIES AT EACH BEARING POINT. REFER TO TRUSS SHOP DRAWINGS FOR LOAD REQUIREMENTS AND 'CROSS- REFERENCE TYPICAL UPLIFT HARDWARE' SCHEDULE ON SHEET S1.0.1 FOR APPROPRIATE HARDWARE.
6. ROOF TRUSS GIRDERS SHALL BE TIED TO STUD GROUP BELOW WITH SIMPSON METAL STRAP TIE-DOWNS RATED FOR THE LOADS SHOWN ON THE ROOF TRUSS SHOP DRAWINGS. CROSS-REFERENCE UPLIFT LOADS WITH 'TYPICAL UPLIFT HARDWARE' SCHEDULE ON SHEET S1.0.1 FOR APPROPRIATE HARDWARE. TIE-DOWNS SHALL BE SUPPLIED BY THE ROOF TRUSS SUPPLIER.

7A. TOP PLATES SUPPORTING ROOF TRUSSES SHALL BE TIED TO STUDS BELOW WITH SIMPSON H2.5A AT EVERY OTHER STUD, EACH CORNER, AND AT STUD GROUPS WITHIN WALLS THAT ARE NOT SHEATHED WITH WOOD STRUCTURAL PANELS.

7B. BEAMS LONGER THAN 3'-0" AT ROOF SHALL BE TIED TO STUDS BELOW WITH SIMPSON LSTA24 EACH SIDE AND EACH END, U.N.O.

8. BOTTOM PLATES OF SHEARWALLS SHALL BE NAILED TO TRUSSES AND BLOCKING WITH 16d NAILS AT 4" o.c. (U.N.O.)
9. 3/4" (48/24) NOMINAL TONGUE AND GROOVE FLOOR SHEATHING SHALL BE ATTACHED WITH 10d NAILS AT 6" o.c. AT EDGES AND 12" IN FIELD. PANELS TO BE CONTINUOUS OVER TWO SUPPORTS WITH LONG SIDES OF 4' x 8' PANELS PERPENDICULAR TO THE SUPPORT WITH THE END JOINTS OF THE PANELS ALIGNED WITH THE CENTER OF THE TWO ADJACENT PANELS (NO CONTINUOUS JOINTS).

9A. ROOF SHEATHING AT ROOF SLOPES LESS THAN 2:12 TO BE 3/4" NOMINAL APA RATED EXPOSURE 1 SHEATHING WITH 10d NAILS @ 6" o.c. AT ALL EDGES AND 12" o.c. IN FIELD. ALL OTHER ROOF SHEATHING TO BE 5/8" NOMINAL APA RATED SHEATHING WITH 10d NAILS @ 6" o.c. AT ALL EDGES & 12"o.c. IN FIELD. COORDINATE SLOPES WITH ARCHITECTURAL DRAWINGS. PANELS TO BE CONTINUOUS OVER TWO SPPORTS WITH LONG SIDES OF 4' x 8' PANELS PERPENDICULAR TO THE SUPPORT WITH THE END JOINTS OF THE PANELS ALIGNED WITH THE CENTER OF THE TWO ADJACENT PANELS (NO CONTINUOUS JOINTS). SUITABLE END SUPPORT SHALL BE PROVIDED, AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION, BY THE USE OF PANEL CLIPS OR LUMBER BLOCKING BETWEEN TRUSSES/JOISTS. PANEL END JOINTS SHALL OCCUR OVER FRAMING. PANELS SHALL BE BLOCKED WITH 2x6 (MINIMUM, UNLESS NOTED OTHERWISE) AT PERIMETER OF ROOF, & AT DIRECTIONAL CHANGES.

10. AT THE FOUNDATION PROVIDE ONE OF THE FOLLOWING FOR EACH CONDITION:
AT SHEARWALLS:
- 1/2"ø ANCHORS x 10" LONG (1" MINIMUM EMBEDMENT) HEADED ANCHORS. FIRST ANCHOR TO BE PLACED 6" FROM END OF BOTTOM PLATE AT CORNERS, OPENINGS (INCLUDING WINDOWS) AND WALL ENDS WITH SPACING PER SCHEDULE.

AT EXTERIOR WALLS: (U.N.O.)
- 1/2"ø ANCHORS x 10" LONG (1" MINIMUM EMBEDMENT) HEADED ANCHORS. FIRST ANCHOR TO BE PLACED 6" FROM END OF BOTTOM PLATE AT CORNERS, OPENINGS (INCLUDING WINDOWS) & WALL ENDS WITH ANCHORS AT 4'-0"o.c. BETWEEN. (SIMPSON MASA CAN BE SUBSTITUTED FOR ANCHOR WITH SAME SPACING).

INTERIOR BEARING WALLS THAT ARE NOT SHEARWALLS:
- HILTI X-U POWDER ACTUATED FASTENERS WITH 1 1/4" MINIMUM EMBEDMENT AT NON-POST-TENSION SLAB ON GRADE.
- HILTI X-U 5T (2 1/4" LONG) POWDER ACTUATED FASTENERS WITH WASHERS WITH 3/4" EMBEDMENT AT POST-TENSION SLAB. ONE PIN SHALL BE PLACED 6" FROM THE END OF BOTTOM PLATE AT CORNERS, OPENINGS (INCLUDING WINDOWS) AND WALL ENDS, ANOTHER 10" FROM THE PLATE END, AND 12" o.c. BETWEEN.
- 1/2"ø SIMPSON 'SET' EPOXIED ANCHOR BOLTS WITH 3 1/2" MINIMUM EMBEDMENT. FIRST ANCHOR TO BE PLACED 6" FROM END OF BOTTOM PLATE AT CORNERS, OPENINGS (INCLUDING WINDOWS) AND WALL ENDS WITH ANCHORS AT 4'-0" o.c. BETWEEN.

INTERIOR NON-BEARING WALLS:
- HILTI X-U POWDER ACTUATED FASTENERS WITH 1 1/4" MINIMUM EMBEDMENT AT NON-POST-TENSION SLAB ON GRADE.
- HILTI X-U 5T (2 1/4" LONG) POWDER ACTUATED FASTENERS WITH WASHERS WITH 3/4" EMBEDMENT AT POST-TENSION SLAB. ONE PIN SHALL BE PLACED 6" FROM THE END OF BOTTOM PLATE AT CORNERS, OPENINGS (INCLUDING WINDOWS) AND WALL ENDS, ANOTHER 10" FROM THE PLATE END, AND 12" o.c. BETWEEN.

11. TIE BOTTOM FLOOR STUDS TO BOTTOM PLATE OF ALL BEARING WALLS WITH ONE OF THE FOLLOWING (NOT REQUIRED AT OSB SHEATHING):
- SIMPSON H-2.5 AT EACH STUD.
- THREE SINKER TOE NAILS AT EACH STUD.
- SIMPSON A35 BENT DOWN, BELOW BOTTOM PLATE AND UP OTHER SIDE AT 5'-0" LOCATION AS FLOOR TIES.

12. PROVIDE CS16 STRAPS (x 2'-6" ABOVE ROOF, AS SHOWN AT FLOORS) AT EACH END OF OPENING REGARDLESS OF SHEATHING INSTALLATION PROCEDURE (SEE BELOW). STRAPS REQUIRED PER OPENING SIZE.
- PROVIDE ONE STRAP AT 3'-0" TO 6'-6" OPENING.
- PROVIDE TWO STRAPS AT 6'-6" TO 12'-0" OPENING.
- NOTIFY ENGINEER OF RECORD FOR OPENING SIZE NOT INCLUDED.

13. PROVIDE ADDITIONAL 2x SILL (TOP & BOTTOM AT WINDOWS, AT TOP OF DOORS) AT LARGER OPENINGS FROM 6'-6" TO 12'-0" WITH ADDITIONAL SIMPSON A35 CLIP AT EACH END ATTACHED TO JAMB STUDS. NOTIFY ENGINEER OF RECORD FOR OPENINGS LARGER THAN 12'-0".

GRAVITY LOAD SUPPORT SYSTEM NOTES

A. ALL JAMB AND BEAM SUPPORT STUDS SHALL BE BLOCKED CONTINUOUSLY THROUGH THE FLOOR CAVITY AND ABOVE DROPPED HEADERS WITH EQUAL NUMBER OF VERTICAL 2x4 BLOCKS. AT BEAMS ADD SUFFICIENT BLOCKS TO BOTTOM END OF BEAM TO MATCH STUD GROUP ABOVE. SQUASH BLOCKS TO BE PROVIDED WITHIN FLOOR CAVITY BETWEEN TRUSSES BELOW STUDS ABOVE.

B. PROVIDE 2 STUDS MINIMUM UNDER ALL BEAMS AND TRUSS GIRDERS CONTINUOUS TO FOUNDATION UNLESS NOTED OTHERWISE. PROVIDE 1 JACK KING STUD EACH END OF ALL HEADERS (MINIMUM) UNLESS NOTED OTHERWISE.

C. ALL BEAMS ARE TO BE FLUSH/CONCEALED WITHIN FLOOR CAVITY. PROVIDE HANGERS AND BLOCKING AS REQUIRED.

D. INTERIOR WALLS CAN BE CONSTRUCTED WITH FINGER-JOINTED STUDS - ACCEPTABLE. REFER TO WALL SCHEDULES FOR STUD SIZE, GRADE, AND SPACING. FINGER-JOINTED STUDS IN WALLS REQUIRING NON-COMBUSTIBLE LUMBER (PER ARCHITECT) MUST BE STAMPED 'HRA', INDICATING HEAT RESISTANT ADHESIVE HAS BEEN USED.

E. STUDS WITHIN WALLS SHEATHED ON BOTH FACES TO BE BLOCKED AT 5'-0" o.c. MAXIMUM. STUDS WITHIN WALLS ONLY SHEATHED ON ONE FACE TO BE BLOCKED AT 4'-0" o.c. MAXIMUM.

F. PROVIDE CONTINUOUS 2x LET-IN RIBBON AT TOP OF ALL TRUSSES.

G. REFER TO WALL SCHEDULE ON S1.0.3 FOR MINIMUM WALL STUD SIZES AND SPACING OF BEARING WALLS. ALL STUDS TO BE SPF STUD GRADE UNLESS NOTED OTHERWISE. ALL EXTERIOR STUDS HAVE BEEN DESIGNED FOR A MAXIMUM DEFLECTION OF L/360 U.N.O. THE STUDS MUST BE REDESIGNED IF A MORE STRINGENT DEFLECTION CRITERIA IS DESIRED.

H. SHEATHING AT SHEARWALLS AND BEARING WALLS SHALL BE NAILED TO ALL COLUMNS, STUD PACKS, AND STUDS WITHIN WALL.

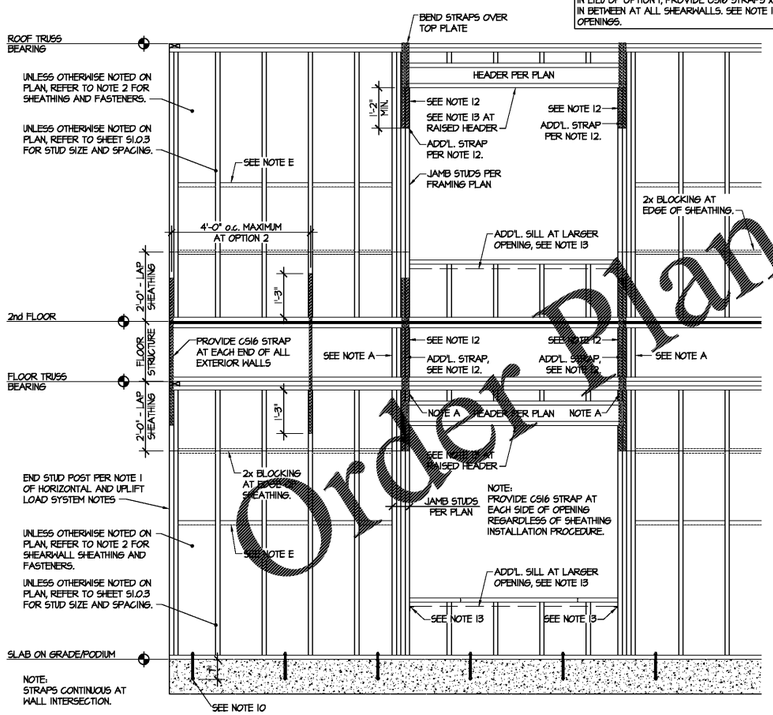
I. EACH STUD WITHIN STUD PACKS SPECIFIED SHALL BE NAILED TO THE ADJACENT STUD(S) USING 16d NAILS @ 16"o.c. VERTICALLY.

J. SHEATHING ON NON-BEARING WALLS CONTAINING STUD PACKS/POSTS (PER FRAMING PLANS) SHALL BE FASTENED TO STUDS @ 1'o.c. MAX.

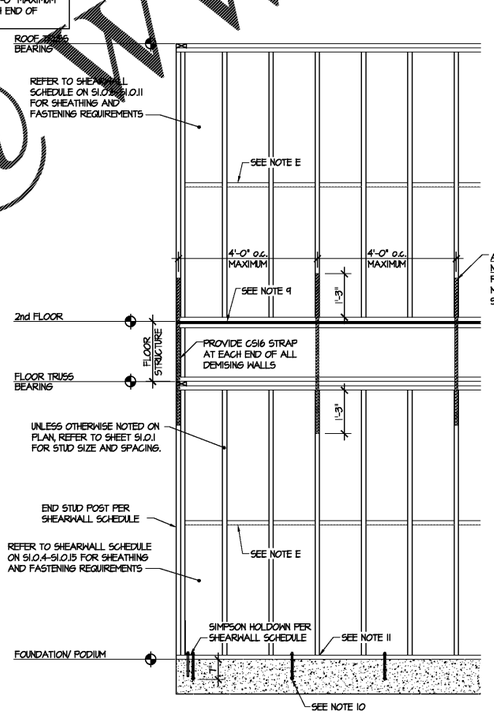
EXTERIOR WALL SHEATHING OPTIONS

OPTION 1:
LAP/EXTEND EDGE OF PLYWOOD OR O.S.B. SHEATHING 2'-0" MIN. ABOVE FLOOR AND/OR BELOW TOP PLATE WITH 2x BLOCKING AT EDGES. CS16 STRAPS @ 4'-0" o.c. PER OPTION 2 ARE NOT REQUIRED, STRAPS AT EACH END OF WALLS AND EACH SIDE OF OPENINGS ARE STILL REQUIRED.

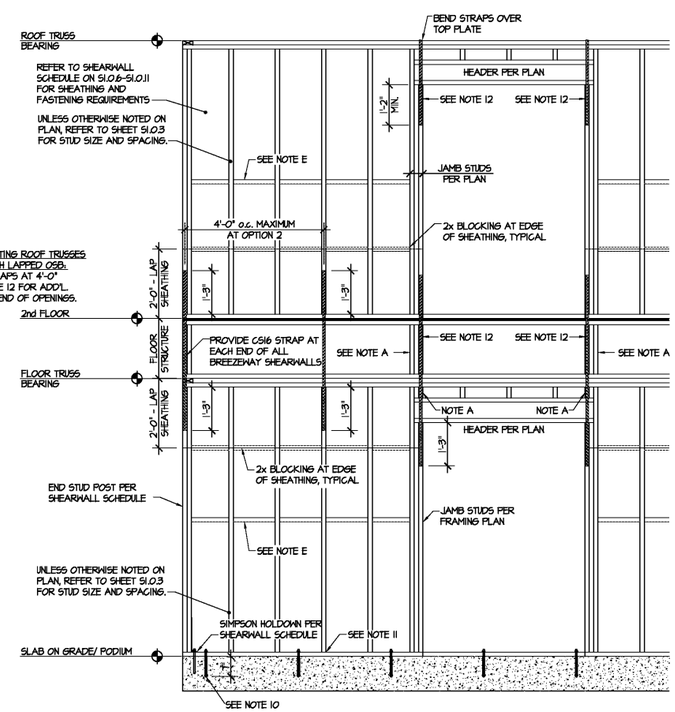
OPTION 2:
IN LIEU OF OPTION 1, PROVIDE CS16 STRAPS x 4'-6" LONG AT EACH END AND AT 4'-0" MAXIMUM IN BETWEEN AT ALL SHEARWALLS. SEE NOTE 12 FOR ADDITIONAL STRAPS AT EACH END OF OPENINGS.



1 **TYPICAL EXTERIOR NON-SHEARWALL ELEVATION**
NOT TO SCALE — (SEE 4/S1.0.2 FOR EXTERIOR SHEARWALL ELEVATION)



2 **TYPICAL DEMISING SHEARWALL ELEVATION**
NOT TO SCALE



3 **TYPICAL BREEZEWAY SHEARWALL ELEVATION**
NOT TO SCALE

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03FEB20 PRICING SET

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SHEARWALL ELEVATIONS

S1.0.2