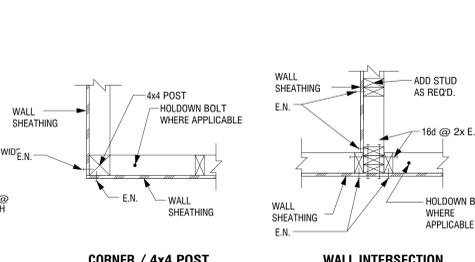
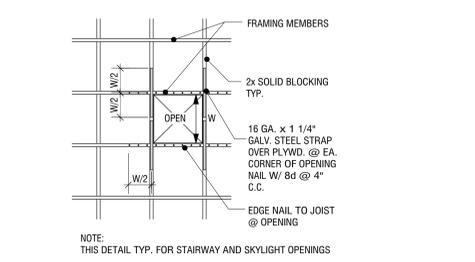


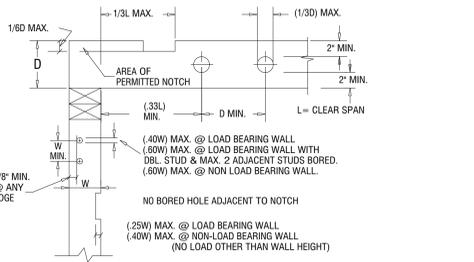
1 TYPICAL STUDWALL DETAIL
NOT TO SCALE



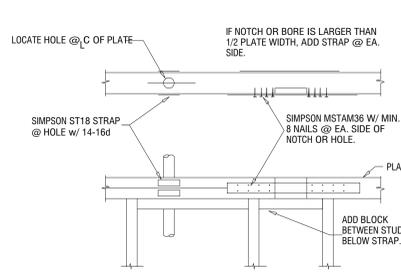
2 TYPICAL SHEAR WALL INTERSECTIONS
N.T.S.



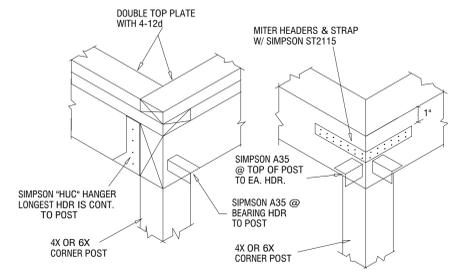
3 OPENING IN DIAPHRAGM
NOT TO SCALE



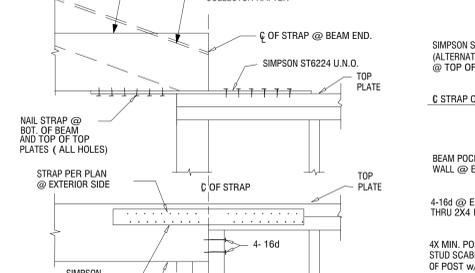
4 NOTCH & BORE LIMITS @ STUDS & JOISTS
NOT TO SCALE



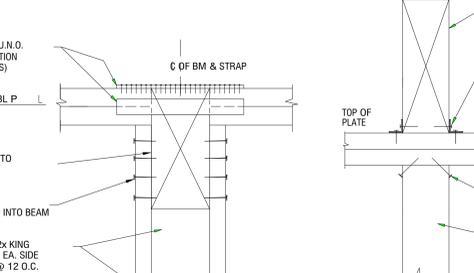
6 NOTCH OR BORE @ TOP PLATE
NOT TO SCALE
NOTE: IN BEARING WALLS, NOTCHES ARE NOT PERMITTED WITHOUT PRIOR APPROVAL OF STRUCTURAL ENGINEER.
NOTE: WHERE PENETRATION ON ONE SIDE OF PLATES, USE RPS18 OR RPS22



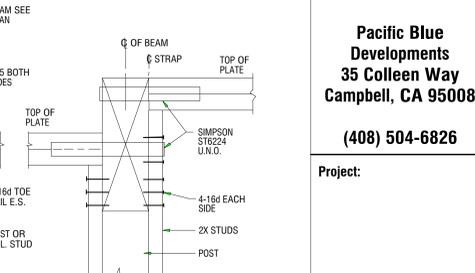
7 CORNER WINDOW HEADER & TOP PLATE DETAIL
NOT TO SCALE



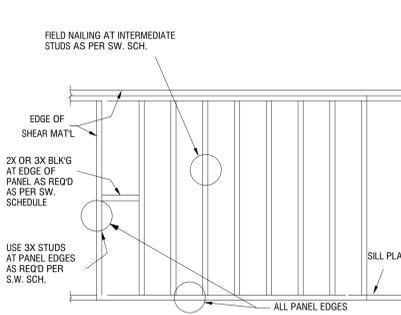
8 BEAM OR HEADER DRAG STRAP DETAIL
NOT TO SCALE



9 DETAIL OF BEAM POCKET
NOT TO SCALE



10 DETAIL OF BEAM TO POST W/ PLATE
NOT TO SCALE

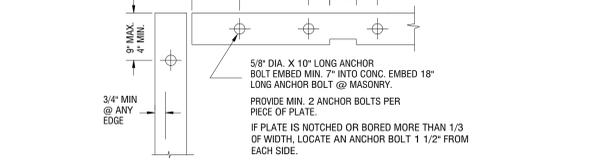


11 TYPICAL SHEARWALL PANEL DETAIL
NOT TO SCALE

| FASTENING SCHEDULE | | | |
|--------------------|---|--|--|
| ITEM | DESCRIPTION OF BUILDING ELEMENTS | NUMBER AND TYPE OF FASTENER** | SPACING AND LOCATION |
| Roof | | | |
| 1 | Blocking between ceiling joists or rafters to top plate | 4-8d box (2 1/2" x 0.113"); or 3-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 3-5" x 0.131" nails | Toe nail |
| 2 | Ceiling joists to top plate | 4-8d box (2 1/2" x 0.113"); or 3-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 3-5" x 0.131" nails | Per joist, toe nail |
| 3 | Ceiling joist not attached to parallel rafter, laps over partitions (see Sections R802.3.1, R802.3.2 and Table R802.5.10) | 4-10d box (3" x 0.128"); or 3-10d common (3" x 0.148"); or 4-5" x 0.131" nails | Face nail |
| 4 | Ceiling joist attached to parallel rafter (heel joint) | Table R802.5.10) | Face nail |
| 5 | Collar tie to rafter, face nail or 1/2" x 20 ga. ridge strap to rafter | 4-10d box (3" x 0.128"); or 3-10d common (3" x 0.148"); or 4-5" x 0.131" nails | Face nail each rafter |
| 6 | Rafter or roof truss to plate | 3-16d box nails (3/2" x 0.135"); or 3-10d common nails (3" x 0.148"); or 4-10d box (3" x 0.128"); or 4-5" x 0.131" nails | 2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss |
| 7 | Roof rafters to ridge, valley or hip rafters or roof rafter to minimum 2" ridge beam | 4-16d (3/2" x 0.135"); or 3-10d common (3" x 0.148"); or 4-10d box (3" x 0.128"); or 4-5" x 0.131" nails | Toe nail |
| | | 3-16d box (3/2" x 0.135"); or 2-16d common (3/2" x 0.162"); or 3-10d box (3" x 0.128"); or 3-5" x 0.131" nails | End nail |
| Wall | | | |
| 8 | Stud to stud (not at braced wall panels) | 16d common (3/2" x 0.162"); or 10d box (3" x 0.128"); or 3" x 0.131" nails | 34" o.c. face nail |
| 9 | Stud to stud and abutting studs at intersecting wall corners (at braced wall panels) | 16d box (3/2" x 0.135"); or 3" x 0.131" nails | 12" o.c. face nail |
| | | 16d common (3/2" x 0.162"); or 16" o.c. each edge face nail | 16" o.c. face nail |
| 10 | Build-up header (2" to 2" header with 1/2" spacer) | 16d box (3/2" x 0.135"); or 3-10d common (3" x 0.148"); or 4-10d box (3" x 0.128"); or 4-5" x 0.131" nails | 12" o.c. each edge face nail |
| 11 | Continuous header to stud | 5-8d box (2 1/2" x 0.113"); or 4-8d common (2 1/2" x 0.131"); or 4-10d box (3" x 0.128") | Toe nail |
| 12 | Top plate to top plate | 16d common (3/2" x 0.162"); or 10d box (3" x 0.128"); or 3" x 0.131" nails | 16" o.c. face nail |
| | | 8-16d common (3/2" x 0.162"); or 12-16d box (3/2" x 0.135"); or 12-10d box (3" x 0.128"); or 12-3" x 0.131" nails | Face nail on each side of end joint (minimum 24" lap splice length each side of end joint) |
| 13 | Double top plate splice for SDCs A-D ₁ and D ₂ ; and braced wall line spacing ≤ 25' | 12-16d (3/2" x 0.135") | Face nail on each side of end joint (minimum 24" lap splice length each side of end joint) |

(continued)

| FASTENING SCHEDULE | | | |
|--------------------|--|--|---|
| ITEM | DESCRIPTION OF BUILDING ELEMENTS | NUMBER AND TYPE OF FASTENER** | SPACING AND LOCATION |
| Floor | | | |
| 14 | Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels) | 16d common (3/2" x 0.162"); or 16d box (3/2" x 0.135"); or 3" x 0.131" nails | 16" o.c. face nail |
| 15 | Bottom plate to joist, rim joist, band joist or blocking (at braced wall panel) | 3-16d box (3/2" x 0.135"); or 3-16d common (3/2" x 0.162"); or 4-3" x 0.131" nails | 3 each 16" o.c. face nail 2 each 16" o.c. face nail 4 each 16" o.c. face nail |
| 16 | Top or bottom plate to stud | 4-8d box (2 1/2" x 0.113"); or 3-16d box (3/2" x 0.135"); or 4-8d common (2 1/2" x 0.131"); or 4-10d box (3" x 0.128"); or 4-5" x 0.131" nails | Toe nail |
| 17 | Top plates, laps at corners and intersections | 3-16d box (3/2" x 0.135"); or 2-16d common (3/2" x 0.162"); or 3-3" x 0.131" nails | Face nail |
| 18 | 1" brace to each stud and plate | 3-8d box (2 1/2" x 0.113"); or 2-8d common (2 1/2" x 0.131"); or 2-10d box (3" x 0.128"); or 2 staples 1 1/2" | Face nail |
| 19 | 1" x 6" sheathing to each bearing | 3-8d box (2 1/2" x 0.113"); or 2-8d common (2 1/2" x 0.131"); or 2-10d box (3" x 0.128"); or 2 staples 1 1/2", long | Face nail |
| 20 | 1" x 8" and wider sheathing to each bearing | 3-8d box (2 1/2" x 0.113"); or 3-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 3 staples, 1" crown, 16 ga., 1 1/2" long | Face nail |
| Floor | | | |
| 21 | Joist to sill, top plate or girder | 4-8d box (2 1/2" x 0.113"); or 3-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 3" x 0.131" nails | Toe nail |
| 22 | Rim joist, band joist or blocking to sill or top plate (roof applications also) | 8d box (2 1/2" x 0.113"); or 8d common (2 1/2" x 0.131"); or 10d box (3" x 0.128"); or 3" x 0.131" nails | 4" o.c. toe nail |
| 23 | 1" x 6" subfloor or less to each joist | 3-8d box (2 1/2" x 0.113"); or 2-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 2 staples, 1" crown, 16 ga., 1 1/2" long | Face nail |



5 SILL PLATE DETAILS
NOT TO SCALE

| FASTENING SCHEDULE—continued | | | |
|--|--|--|--|
| ITEM | DESCRIPTION OF BUILDING ELEMENTS | NUMBER AND TYPE OF FASTENER** | SPACING AND LOCATION |
| Floor | | | |
| 24 | 2" subfloor to joist or girder | 3-16d box (3/2" x 0.135"); or 2-16d common (3/2" x 0.162") | Blind and face nail |
| 25 | 2" planks (plank & beam—floor & roof) | 3-16d box (3/2" x 0.135"); or 2-16d common (3/2" x 0.162") | At each bearing, face nail |
| 26 | Band or rim joist to joist | 3-16d common (3/2" x 0.162"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails; or 4-3" x 14 ga. staples, 1/2" crown | End nail |
| 27 | Build-up girders and beams, 2-inch lumber layers | 20d common (4" x 0.192); or 10d box (3" x 0.128"); or 3" x 0.131" nails | 24" o.c. face nail at top and bottom staggered on opposite sides |
| 28 | Ledger strip supporting joists or rafters | 4-16d box (3/2" x 0.135"); or 3-16d common (3/2" x 0.162"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails | At each joist or rafter, face nail |
| 29 | Bridging to joist | 2-10d (3" x 0.128") | Each end, toe nail |
| Wood structural panels, subfloor, roof and interior wall sheathing to framing and particulate board wall sheathing to framing (see Table R602.3.2) for wood structural panel exterior wall sheathing to wall framing | | | |
| 30 | 1/2" - 1" | 6d common (2" x 0.137" nail, subfloor, wall) or 8d common (2 1/2" x 0.131" nail, roof) | 6 12' |
| 31 | 1/2" - 1" | 8d common nail (2 1/2" x 0.131" nail) | 6 12' |
| 32 | 1 1/2" - 1 1/2" | 10d common (3" x 0.148" nail) or 8d (2 1/2" x 0.131" deformed nail) | 6 12' |
| Other wall sheathing | | | |
| 33 | 1/2" structural cellulose fiberboard sheathing | 1 1/2" galvanized roofing nail, 1/2" head diameter, or 1" crown staple 16 ga., 1 1/2" long | 3 6' |
| 34 | 3/8" structural cellulose fiberboard sheathing | 1 1/2" galvanized roofing nail, 3/8" head diameter, or 1" crown staple 16 ga., 1 1/2" long | 3 6' |
| 35 | 1/2" gypsum sheathing | 1 1/2" galvanized roofing nail, staple galvanized, 1 1/2" long, 1 1/2" screws, Type W or S | 7 7' |
| 36 | 3/8" gypsum sheathing | 1 1/2" galvanized roofing nail, staple galvanized, 1 1/2" long, 1 1/2" screws, Type W or S | 7 7' |
| Wood structural panels, combination subfloor underlayment to framing | | | |
| 37 | 1/2" and less | 6d deformed (2" x 0.120" nail) or 8d common (2 1/2" x 0.131" nail) | 6 12' |
| 38 | 1/2" - 1" | 8d common (2 1/2" x 0.131" nail) or 8d deformed (2 1/2" x 0.120" nail) | 6 12' |
| 39 | 1 1/2" - 1 1/2" | 10d common (3" x 0.148" nail) or 8d deformed (2 1/2" x 0.120" nail) | 6 12' |

For SE: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s, 1 ksi = 6.895 MPa.

WALL CONSTRUCTION

FASTENING SCHEDULE

a. Nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strength as shown: 80 ksi for shank diameter of 0.192 inch (20d common nail), 90 ksi for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi for shank diameters of 0.142 inch or less.

b. Staples are 16 gauge wire and have a minimum 1/8-inch on diameter crown width.

c. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.

d. Four-foot by 4-foot or 4-foot by 8-foot panels shall be applied vertically.

e. Spacing of fasteners not included in this table shall be based on Table R602.3.2.

f. Where the ultimate design wind speed is greater than 130 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced 6 inches on center for minimum clear distance from ridges, eaves and gable end walls and 4 inches on center to gable end wall framing.

g. Gypsum sheathing shall conform to ASTM C1396 and shall be installed in accordance with GA 233. Fiberboard sheathing shall conform to ASTM C208.

h. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and at floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or solid blocking.

i. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule.

| TABLE R602.3.2 SINGLE TOP-PLATE SPLICE CONNECTION DETAILS | | | |
|---|---|------------------------------------|-------------------------------------|
| CONDITION | TOP-PLATE SPLICE LOCATION | | |
| | Splice plate size | Minimum nails each side of joint | Minimum nails each side of joint |
| Structures in SDC A, C, and in SDC D ₁ , D ₂ , and D ₃ with braced wall line spacing less than 25 feet | 3" x 6" x 0.036" galvanized steel plate or equivalent | (6) 8d box (2 1/2" x 0.113") nails | (12) 8d box (2 1/2" x 0.113") nails |
| Structures in SDC D ₁ , D ₂ , and D ₃ with braced wall line spacing greater than or equal to 25 feet | 3" x 8" x 0.036" galvanized steel plate or equivalent | (9) 8d box (2 1/2" x 0.113") nails | (18) 8d box (2 1/2" x 0.113") nails |

For SE: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

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| | |
|-------------|------------------|
| Job Number: | 24009 |
| Date: | January 28, 2028 |
| Revisions: | |
| 1 | October 28, 2024 |

Sheet

S6

of 5 sheets