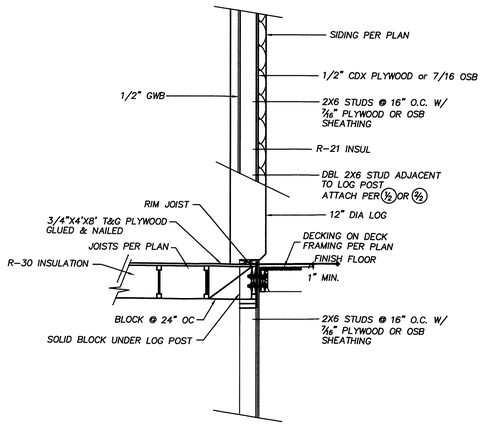
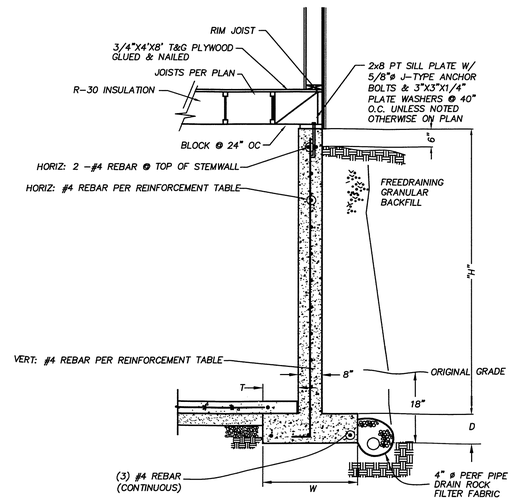


A/S1 POST BASE

SCALE: 1/2" = 1'-0"

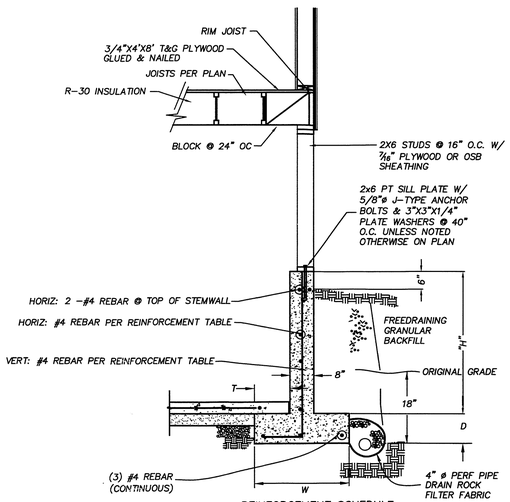


REINFORCEMENT SCHEDULE

"H" IN FEET	W	T	D	VERT REINF	HORZ REINF
8'	34"	12"	10"	#4 @ 9" OC	#4 @ 9" OC

B/S1 RESIDENCE FOUNDATION

SCALE: 1/2" = 1'-0"



REINFORCEMENT SCHEDULE

"H" IN FEET	W	T	D	VERT REINF	HORZ REINF
24"	16"	4"	8"	#4 @ 24" OC	(2) #4 @ TOP
48"	18"	5"	8"	#4 @ 12" OC	#4 @ 24" OC

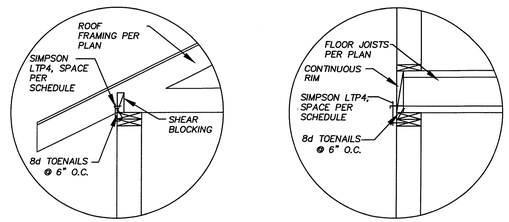
C/S1 RESIDENCE FOUNDATION

SCALE: 1/2" = 1'-0"

TABLE R602.3(1)
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER[a,b,c]	SPACING OF FASTENERS
Joist to sill or girder, toe nail	3-8d	—
1" x 6" subfloor or less to each joist, face nail	2-8d 2 staples, 1 3/8"	— —
2" subfloor to joist or girder, blind and face nail	2-16d	—
Sole plate to joist or blocking, face nail	16d	16" o.c.
Top or sole plate to stud, end nail	2-16d	—
Stud to sole plate, toe nail	3-8d or 2-16d	—
Double studs, face nail	10d	24" o.c.
Double top plates, face nail	10d	24" o.c.
Sole plate to joist or blocking at braced wall panels	3-16d	16" o.c.
Double top plates, minimum 24-inch offset of end joints, face nail in lapped area	8-16d	—
Blocking between joists or rafters to top plate, toe nail	3-8d	—
Rim joist to top plate, toe nail	8d	6" o.c.
Top plates, laps at corners and intersections, face nail	2-10d	—
Built-up header, two pieces with 1/2" spacer	16d	16" o.c. along each edge
Continued header, two pieces	16d	16" o.c. along each edge
Ceiling joists to plate, toe nail	3-8d	—
Continuous header to stud, toe nail	4-8d	—
Ceiling joist, laps over partitions, face nail	3-10d	—
Ceiling joist to parallel rafters, face nail	3-10d	—
Rafter to plate, toe nail	2-16d	—
1" brace to each stud and plate, face nail	2-8d 2 staples, 1 3/4"	— —
1" x 6" sheathing to each bearing, face nail	2-8d 2 staples, 1 3/4"	— —
1" x 8" sheathing to each bearing, face nail	2-8d 3 staples, 1 3/4"	— —
Wider than 1" x 8" sheathing to each bearing, face nail	3-8d 4 staples, 1 3/4"	— —
Built-up corner studs	10d	24" o.c.
Built-up girders and beams, 2-inch lumber layers	10d	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
2" planks	2-16d	At each bearing
Roof rafters to ridge, valley or hip rafters: toe nail face nail	 4-16d 3-16d	 — —
Rafter ties to rafters, face	3-8d	—
Wood structural panels, subfloor, roof and wall sheathing to framing, and particleboard wall sheathing to framing		
7/16"-1/2"	6d common nail (subfloor, wall) 8d common nail (roof)[f]	6	12[g]
19/32"-1"	8d common nail	6	12[g]
1 1/8"-1 1/4"	10d common nail or 8d deformed t nail	6	12

(continued)

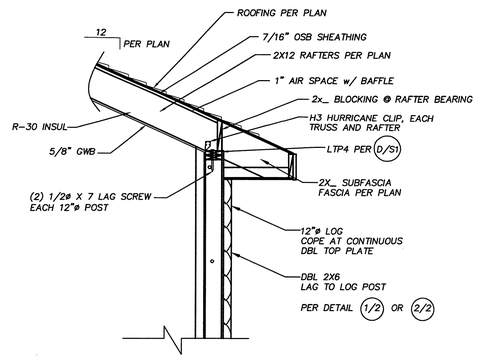


OPTION 1 OPTION 2

BLOCKING & RIM ATTACHMENT SCHEDULE	
SHEAR WALL TYPES IN BRACED WALL LINE	SIMPSON LTP4 LATERAL TIE PLATE SCHEDULE
	SHEATHED ONE SIDE
1	32" O.C.
2	22" O.C.
3	16" O.C.
4	9" O.C.

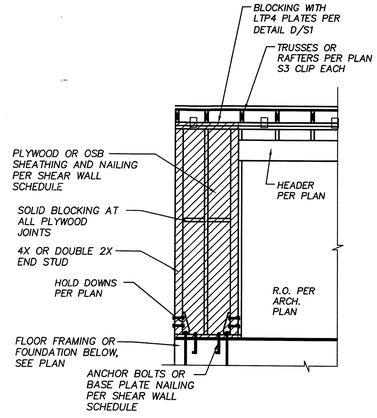
D/S1 SHEAR ATTACHMENT

SCALE: 3/4" = 1'-0"



E/S1 POST AT ROOF DETAIL

SCALE: 1/2" = 1'-0"



F/S1 SHEAR WALL PANEL

SCALE: 3/8" = 1'-0"

TABLE R602.3(1)—continued
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER[a,b,c]	SPACING OF FASTENERS: Edges (inches)[i]	SPACING OF FASTENERS: Intermediate supports[c,e] (inches)
Other wall sheathing[h]			
1/2" regular cellulosic fiberboardsheathing	1 1/2" galvanized roofing nail 6d common nail staple 16 ga., 1 1/2" long	3	6
1/2" structural cellulosic fiberboard sheathing	1 1/2" galvanized roofing nail 8d common nail staple 16 ga., 1 1/2" long	3	6
25/32" structural cellulosic fiberboard sheathing	1 3/4" galvanized roofing nail 8d common nail staple 16 ga., 1 3/4 long	3	6
1/2" gypsum sheathing	1 1/2" galvanized roofing nail; 6d common nail; staple galvanized, 1 1/2" long; 1 1/4" screws, Type W or S	4	8
5/8" gypsum sheathing	1 3/4" galvanized roofing nail; 8d common nail; staple galvanized, 1 5/8" long; 1 5/8" screws, Type W or S	4	8
Wood structural panels, combination subfloor underlayment to framing			
3/4" and less	6d deformed nail or 8d common nail	6	12
7/8"-1"	8d common nail or 8d deformed nail	6	12
1 1/8"-1 1/4"	10d common nail or 8d deformed nail	6	12

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 1.609 km/h.

a. All 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 strengths as shown: 80 ksi (551 MPa) for shank diameter of 0.192 inch (20d common nail), 90 ksi (620 MPa) for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi (689 MPa) for shank diameters of 0.142 inch or less.

b. Staples are 16 gage wire and have a minimum 7/16-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-8-foot or 4-foot-by-9-foot panels shall be applied vertically.

e. Spacing of fasteners not included in this table shall be based on Table R602.3(1).

f. For regions having basic wind speed of 110 mph or greater, 8d deformed nails shall be used for attaching plywood and wood structural panel roof sheathing to framing within a minimum 48-inch distance from gable end walls, if mean roof height is more than 25 feet, up to 35 feet maximum.

g. For regions having basic wind speed of 100 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced 6 inches on center. When basic wind speed is greater than 100 mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for a minimum 48-inch distance from ridges, eaves and gable end walls; and 4 inches on center to gable end wall framing.

h. Gypsum sheathing shall conform to ASTM C 79 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to either AHA 194.1 or ASTM C 208.

i. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and at all floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and at all roof plane perimeters. Blocking of roof or floor sheathing panel edges perpendicular to the framing members shall not be required except at intersection of adjacent roof planes. Floor and roof perimeters shall be supported by framing members or solid blocking.

APPROVED

30 Aug 2007

DONNA I. PETERSEN STATE OF WASHINGTON 30765 REGISTERED PROFESSIONAL ENGINEER

EXPIRES 4-09

DATE: AUGUST 2007
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SHEET: S1

4 SEASONS ENGINEERING, INC. (360) 452-3025
619 S. Chase St. Port Angeles, Wa. 98362

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