

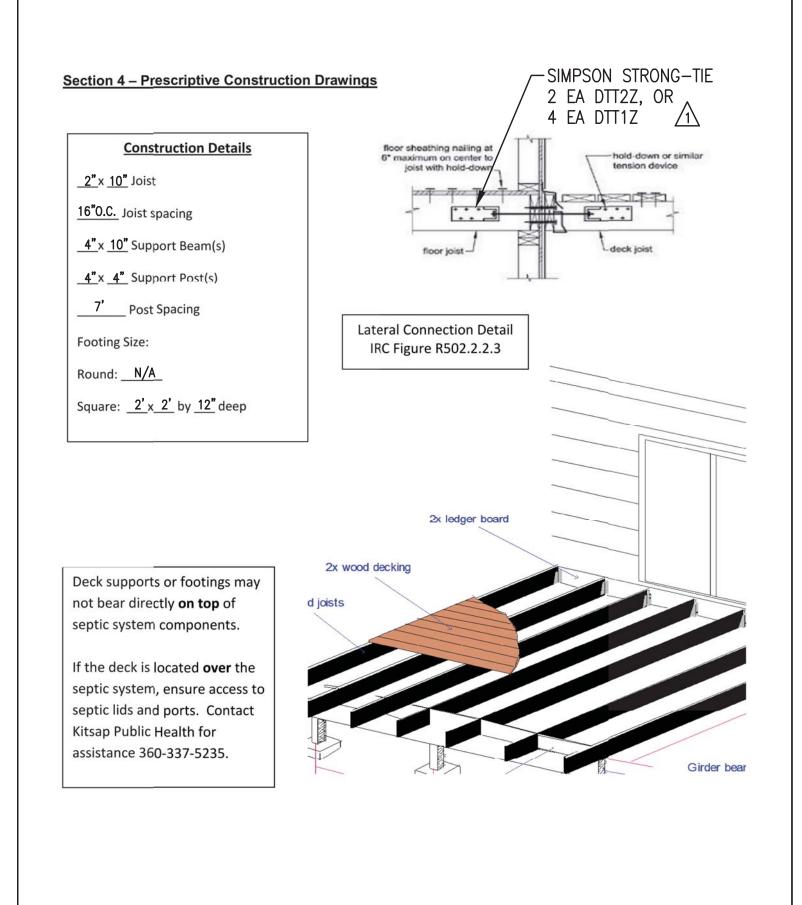
Fasteners, hangers, nails, etc., must be stainless steel, hot-dipped galvanized, or as specifically required for the specified wood preservative used.	IRC R317.3.1
Lateral connection is required to resist overturning	IRC R507.5.1
Ledger boards must be attached with structural wood screws to the building and all connections between the deck and dwelling must be flashed with metal flashing. Hold-down tension ties shall be installed in not less than 2 locations.	IRC R507.2 IRC R507.2.4
Joists are of appropriate size to support imposed loads. The span of a joist is measured from the centerline of bearing at one end of the joist to the centerline of bearing at the other end of the joist and does not include length of the overhangs. Use Table 1 to determine joist span based on lumber size and joist spacing.	IRC R507.5
All decks, balconies or porches, open sides of landings and stairs which are more than 30" above grade or a floor below must be protected by a guardrail not less than 36" high (42" for commercial or common areas of multi-family dwellings). Open guardrails and stair railings require intermediate rails or an ornamental pattern such that a ball 4" in diameter cannot pass through.	IRC R312
Footings are of appropriate size to support imposed loads and extend a minimum of 12" below grade. See Table 1 for footing sizes.	IRC 403.1.4
Columns and posts exposed to the weather or to water splash must be supported by and connected to concrete piers or metal pedestals projecting above grade. Columns and posts in contact with the ground or embedded in concrete or masonry must be of special pressure treated wood approved for ground contact.	IRC R317.1.2 IRC R317.1.4
Positive connections required to secure posts to beams.	IRC R507.7.1
Decks should not overhang beams by more than ¼ the actual adjacent span, nor should beams overhang posts by more than ¼ the actual beam span at the ends unless a specific design is calculated. Floor joist spacing at 24" on center requires 2x decking, and floor joist spacing at 16" on center requires 1 ¼ actual thickness.	IRC R507.5 IRC R507.6 IRC R507.4
Deck stairs (exterior stairways) shall be provided with a source of illumination at the top landing, controlled from within the dwelling or by automatic means.	IRC R303.8

Kitsap County Department of Community Development 614 Division Street, MS-36 Port Orchard, WA 98366-4682 Revision Date: 1/18/18



Code Reference

IRC R317.1



Kitsap County Department of Community Development

614 Division Street, MS-36

Revision Date: 1/18/18

Port Orchard, WA 98366-4682

ooting Siz		D 15 "	0 5 "		Notes				
Beam	Joist	Round Footing	Square Footing	Footing	1. Assumes 1,500 PSF soil				
Span, LB	Span LJ	Diameter	Dimensions	Thickness2	A STATE OF THE STA				
	≤10'	15"	13"	6"	bearing capacity.				
6'	≤14'	17"	15"	6"	2. Assumes 2,500 PSI				
	≤18'	20"	18"	7"	compressive strength of concrete. Coordinate				
	≤10'	17"	15"	6"	footing thickness with				
8'	≤14'	20"	18"	8"	post base and anchor				
	≤18'	23"	21"	9"	requirements.				
10'	≤10'	19"	17"	7"	3. No 12" x 12" preformed				
	≤14'	22"	20"	9"	pier blocks allowed.				
	≤18'	25"	23"	10"	Post sizes are dictated by				
	≤10'	21"	19"	8"	beam size. Required 4x				
12'	≤14'	24"	22"	10"	beam requires 4x4 post,				
	≤18'	28"	26"	11"	6x beam requires 6x6				
	≤10'	22"	20"	9"	post.				
14"	≤14'	26"	24:	11"	5. Footing to be 12" below				
	≤18'	30"	28"	12"	grade minimum.				
16'	≤10'	24"	22"	9"	6. Fcoting to have a				
	≤14'	28"	26"	12"	minimum of (2) #4 rebar				
	≤18'	32"	30"	13"	each way, 3-4" from				
	≤10'	25"	23"	10"	bottom of the footing.				
18'	≤14'	30"	28"	12"	1				
	≤18'	34"	32"	14"	1				

Table 1

	Dec	k Beam Sp	ans (LB)1 f	or Joists Fra	ming from	One Side O	nly	
	Joist Spans (LJ) Less Than or Equal to:							
Species	Size	6'	8'	10'	12'	14'	16'	18'
Douglas Fir-Larch,	3x6 or (2) 2x6	5'-5"	4'-5"	3'-6"	2'-11"	2'-6"	2'-2"	1'-11"
	3x8 or (2) 2x8	7'-3"	5'-9"	4'-8"	3'-10"	3'-4"	2'-11"	2'-7"
	3x10 or (2) 2x10	8'-11"	7'-5"	5'-11"	4'-11"	4'-3"	3'-8"	3'-3"
	3x12 or (2) 2x12	10'-4"	8'-11"	7'-2"	6'-0"	5'-2"	4'-6"	4'-0"
	4x6	6'-3"	5'-11"	4'-11"	4'-1"	3'-6"	3'-1"	2'-9"
	4x8	8'-9"	7'-9"	6'-6"	5'-5"	4'-8"	4'-1"	3'-7"
	4x10	11'-0"	9'-6"	8'-3"	6'-11"	5'-11"	5'-2"	4'-7"
	4x12	12'-10"	11'-1"	10'-0"	8'-5"	7'-2"	6'-3"	5'-7"
	(3) 2x6	6'-11"	6'-6"	6'-1"	5'-3"	4'-6"	3'-11"	3'-6"
	(3) 2x8	9'-8"	8'-6"	7'-8"	6'-11"	5'-11"	5'-3"	4'-8"
	(3) 2x10	11-11"	10'-4"	9'-4"	8'-5"	7'-7"	6'-8"	5'-11'
	(3) 2x12	13'-10"	12'-0"	10'-10"	9'-10"	9'-1"	8'-1"	7'-2"

WINNER
NATIONAL ASSOCIATION
OF COUNTIES

Kitsap County Department of Community Development 614 Division Street, MS-36 Port Orchard, WA 98366-4682 Revision Date: 1/18/18

Phone: (360) 337-5777 Email: help@kitsap1.com www.kitsapgov.com/dcd/ Page 4 of 7

Reviewed for code comp.

With IRC 2015

With Building Departn.

Kitsap County Building Walls

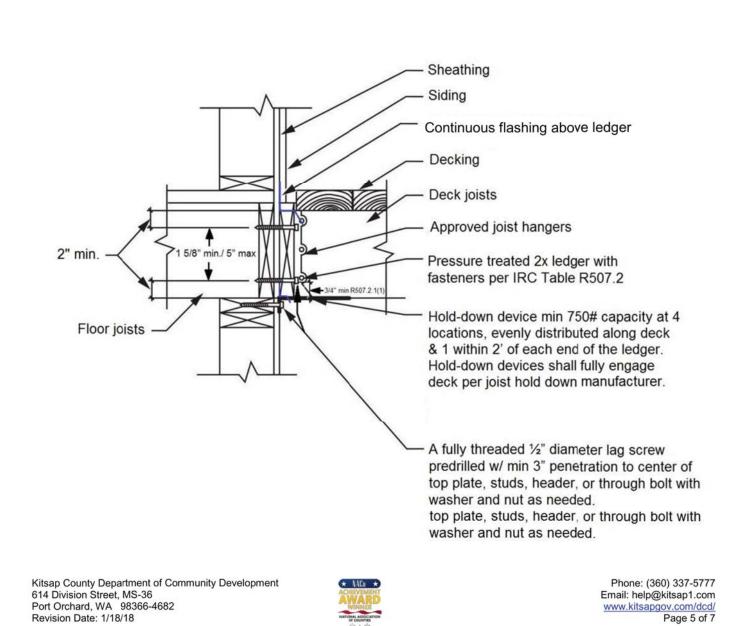
Subject To Field Inspection

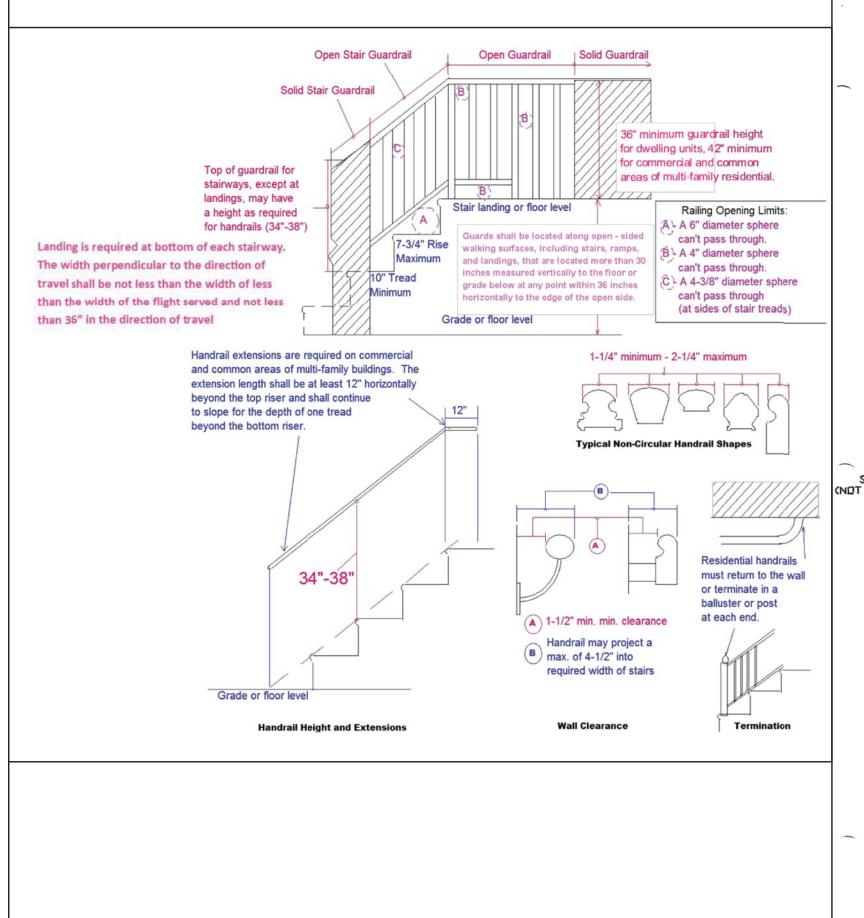
CHANGES **MUST Be Approved Prior** To Performing Work

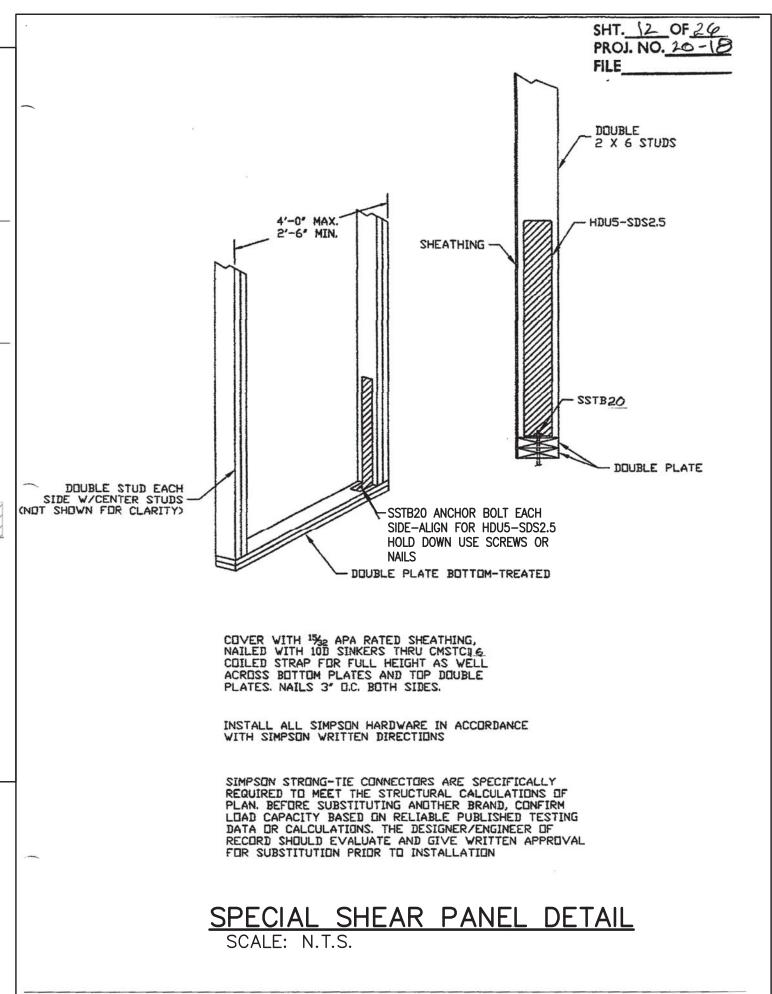
			Tab	ole 3			
Maximum Jo	ist Spans	===0					
		Joist Spacing (o.c)					
		Without Ove	rhangs1	,	With Overhangs up to LJ/42		
Species	Size	12"	16"	24"	12"	16"	24"
Douglas Fir-Larch, Hem-Fir, SPF3	2x6	8'-1"	7'-0"	5'-9"	7'-5"	6'-9"	5'-9"
	2x8	10'-10"	9'-5"	7'-8"	9'-7"	8'-8"	7'-7"
	2x10	13'-3"	11'-6"	9'-4"	13'-3"	11'-6"	9'-5"
	2x12	15'-4"	13'-4"	10'-10"	15'-5"	13'-4"	10'-11

1. Assumes 60 PSF live load, 10 PSF dead load, L/360 deflection, #2 grade, and wet service conditions. 2. Assumes 60 PSF live load, 10 PSF dead load, L/180 cantilever deflection with 220 lb. point load, #2 grade, and wet service conditions. 3. Incising assumed for refractory species including Douglas Fir-Larch, Hem-Fir, and Spruce-Pine-Fir.

Standard Deck Connection Details







1/4"=1'-0" (24X36) 07-22-20 BY: EPA BY: CDH Prepared By:
AUSTIN ENGINEERIN
CIVIL ENGINEER A m

WNI 311

Permit Number 20-02334

Phone: (360) 337-5777

Email: help@kitsap1.com

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