## Building a One or Two-Family Home in Wisconsin

If applicable, you will need to obtain a sanitary permit, a driveway permit, and a zoning permit as required by your local municipality or county before a building permit can be issued; a copy of these permits will need to be submitted to the building inspector prior to a building permit being issued.

Complete the latest version (R.6/10) of the **Wisconsin Uniform Building Permit Application** (attached) and return to the building inspector.

Submit an **Erosion Control Plan** showing the locations of erosion control measures to be taken for sediment control, the location of the tracking pad for driveway access, and the locations of temporary soil storage piles. A copy of the Site Plan with the additional erosion control information may be used for the Erosion Control Plan.

Submit your **Energy Calculations** to the building inspector; you may use the 2009 IECC to calculate this number. This software can be downloaded for free at <u>www.energycodes.gov</u>. If you are uncertain how to obtain this calculation, please refer to your HVAC contractor.

#### Plan Submittal (Two Sets)

At least **two** sets of plans for all one and two-family dwellings need to be submitted to the building inspector for examination and approval at the time the **Wisconsin Uniform Building Permit** application is submitted. The required building plans must be legible and drawn to scale or dimensioned and must include **ALL** of the following:

Site Plan must show all of the following:

- □ The location of the dwelling and other buildings, wells, surface waters and dispersal systems on the site with respect to property lines and surface waters adjacent to the site.
- The areas of land-disturbing construction activity and the location of all erosion and sediment control measures to be employed in order to comply with SPS 321.125.
- The pre-construction ground surface slope and direction of runoff flow within the proposed areas of land disturbance.

Floor Plan must be provided for each floor and must show all of the following:

- The size and location of all rooms, doors, windows, structural features, exit passageways and stairs.
- ☐ The use of each room.
- The location of plumbing fixtures, chimneys, heating and cooling appliances and a heating distribution layout.
- The location and construction details of the braced wall lines.

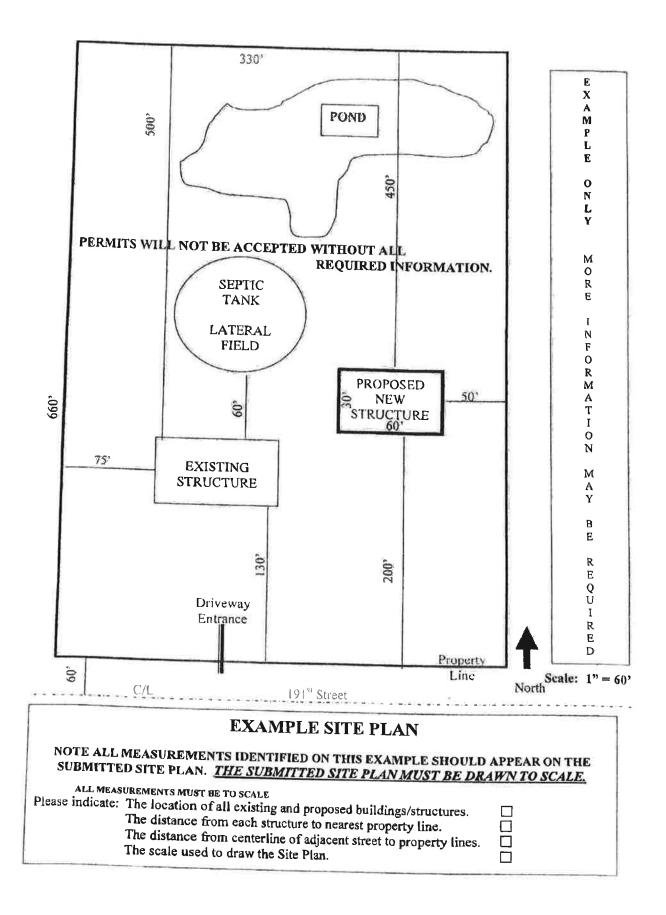
Elevations must show all of the following:

- The exterior appearance of the building, including the type of exterior materials.
- The location, size and configuration of doors, windows, roof, chimneys, exterior grade, footings and foundation walls.

#### **Storm Water Management Plan:**

- Must be prepared for a site where one acre or more of land will be disturbed.
- Must delineate and describe the post-construction storm water management practices to be employed to comply with SPS 321.126.

## All above Listed Materials <u>MUST</u> be Submitted PRIOR to the Issuance of a Building Permit



WBA Regulatory Alert: New Wall bracing rules in effect April 1st



Posted: 27 Feb 2014 08:05 AM PST WBA has been working with the Uniform Dwelling Code (UDC) Council and the Department of Safety and Professional Services (DSPS) over the last six months on an improved wall bracing code in Wisconsin. The new code preserves building safety and design flexibility, but it is

easier to use and to understand for both builders and inspectors. It should also save money.

The DSPS is making a great deal of information on this matter available on their website. Click here: <u>http://165.189.64.111/Default.aspx?Page=4a17a637</u> -<u>d158-4c31-bcda-ae4be0744942</u> for a number of resources including the actual wall bracing rule language, a Wall Bracing Compliance Worksheet and a How To guide for the new provision.

In addition to these tools, WBA has been working with DSPS staff members to come up with answers to frequently asked questions (FAQ) on the wall bracing rule changes. We expect that FAQ to be available before the April 1, 2014 effective date. We will alert our members when it is available.

While the new code is easier and less expensive to comply with than the old rule, WBA recognizes that there will be questions from members now and after the April 1, 2014 effective date. Remember that you have free access to the WBA code hotline (1-888-947-2458). The hotline is ready and will be available for members that have questions on the wall bracing rule. WBA will continue to work with DSPS staff and the engineer that was hired to consult with us on the rule as well and will continue to provide you with the latest and most accurate information available.

# UDC Wall Bracing Provisions Permanent Rule effective September 1, 2014

# A 'How To' guide for use of the new provisions

**Summary:** Forget what you knew about the previous wall bracing provisions – this method is a different concept. The provisions are generally based on the 2012 IRC Simplified Wall Bracing Provisions. The new prescriptive Tables provide the number of braced wall panels required on a rectangle side (intermittent sheathing method) OR the total length of braced wall panels required on a rectangle side (continuously sheathed method) in wood frame walls parallel to the wind direction being considered.

What hasn't changed? Generally the bracing materials and fastening in Table 321.25-G remain unchanged.

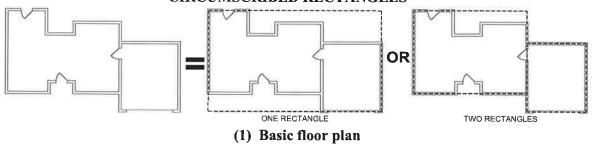
#### Major Assumptions/Defaults:

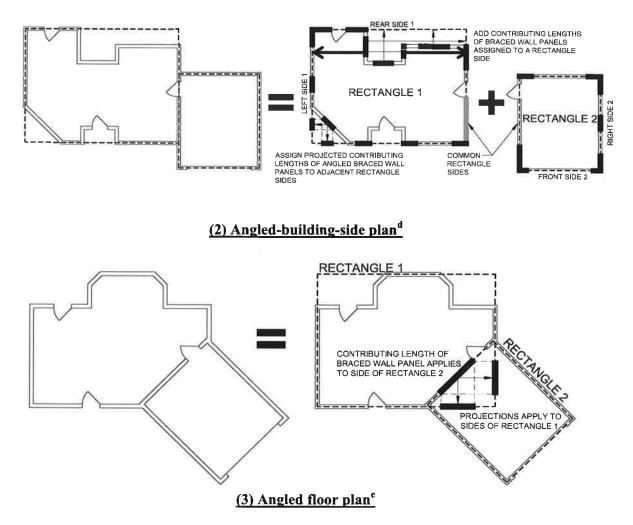
- Interior side of exterior walls are sheathed with <sup>1</sup>/<sub>2</sub>" gypsum board
- 10' wall heights
- Wind Exposure category B
- For the intermittent bracing method roof eave (top of wall) to ridge height is 10'

Starting with the topmost floor level ....

**STEP 1:** Define the rectangle sides by circumscribing the outermost extents of the building at each floor level with a rectangle. The maximum length of any side of the rectangle is 75' for intermittent bracing and 80' for continuously sheathed bracing. For either method the maximum length to width ratio of the rectangle is 3:1. If the length of the rectangle side exceeds the prescriptive limit of the respective table or the length to width ratio exceeds 3:1 the building must be circumscribed or divided with more than one rectangle or designed by engineering analysis. See examples below from the rules - Figure 321.25-B.

#### Figure 321.25–B DEFINING BUILDING SIDES AND LENGTHS WITH ONE OR MORE CIRCUMSCRIBED RECTANGLES<sup>a,b,c</sup>





<sup>a</sup>Each floor plan level shall be circumscribed with one or more rectangles around the entire floor plan at the floor level under consideration as shown. When multiple rectangles are used, each side shall be braced as though it were a separate building and the bracing amount added together along the common wall where adjacent rectangles overlap or abut.

<sup>b</sup>Rectangles shall surround all enclosed plan offsets and projections. Chimneys, partial height projections, and open structures, such as carports and decks, shall be excluded from the rectangle.

"Each rectangle shall have a maximum rectangle length-to-width ratio of 3:1.

<sup>d</sup>Projected contributing lengths of angled braced wall panels shall be assigned to the closest rectangle sides, as shown for the angled corner in the angled-building-side-plan shown above.

<sup>e</sup>Braced wall panels located on a common wall where angled rectangles intersect, as shown in Figure 321.25-B(3), shall have their contributing length applied towards the required length of bracing for the parallel rectangle side and its projected contributing lengths towards the adjacent angled rectangle sides. Where the common side of rectangle 2 as shown in Figure 321.25-B(3) has no physical wall, the portion shall be designed in accordance with s. SPS 321.25 (8) (a).

**STEP 2:** Select the wall bracing method (intermittent or continuous), materials, and panel width (intermittent method) from Table 321.25-G. If using intermittent braced wall panels, in general most of the bracing methods are considered equivalent and the method simply tells you the NUMBER of panels required on a rectangle side. For continuously sheathed bracing the method yields the total LENGTH of braced wall required on a rectangle side.

		BRACIN	NG METHODS <sup>a</sup> ,	,f		
	Minimum	Maximum	Minimum	Connection Criteria		
Material	Brace Material Nominal Braced Wall		Minimum Fasteners	Maximum Spacing		
		Intermittent	Bracing Methods	I		
LIB <sup>c</sup> Let-in bracing	1x4 wood brace (or approved metal brace installed per manufacturer instructions)	10'	45° angle and maximum 16" o.c. stud spacing <sup>b</sup>	2-8d common nails or 3-8d box nails (2 3/8" long x 0.113" diameter)	Per stud and top and bottom plates <sup>e</sup>	
DWB Diagonal wood boards	<sup>3</sup> / <sub>4</sub> " (1" nominal) for maximum 24" o.c. stud spacing	10'	48"	2-8d box nails (2 3/8" long x 0.113" diameter) or 2 - 1 3/4" long 16-gage staples	Per stud and top and bottom plates <sup>e</sup>	
WSP Wood structural panel	3/8" for maximum 16"o.c. stud spacing; 7/16" for maximum 24" o.c. stud spacing	10'	48"	6d common nail or 8d box nail (2 3/8" long x 0.113" diameter); or 7/16"- or 1/2"- crown 16-gage staples, 1 1/4" long	6" edges, 12" field (nails) 3" edges, 6" field (staples)	
SFB Structural fiberboard sheathing	<sup>1</sup> /2" for maximum 16" o.c. stud spacing	10'	48"	1 1/2" long x 0.120" diameter galvanized roofing nails or 1"-crown 16- gage staples, 1 1/4" long	3" edges, 6" field	
GB Gypsum board (installed on both sides of wall)	<sup>1</sup> /2" for maximum 24" o.c. stud spacing	10'	96"	5d cooler nails, or #6 screws	7" edges, 7" field (including top and bottom plates)	
and thread		tinuous Shea	thed Bracing Met	hods		
CS-WSP <sup>d</sup> Continuous sheathed WSP	3/8" for maximum 16"o.c. stud spacing;	12"	Refer to Table 321.25-H	Same as WSP	Same as WSP	

## Table 321.25–G BRACING METHODS<sup>a, f</sup>

CS-SFB <sup>d</sup> Continuous sheathed SFB	7/16" for maximum 24" o.c. stud spacing <sup>1</sup> / <sub>2</sub> " for maximum 16" o.c. stud spacing			Same as SFB	Same as SFB
		Narrow	Panel Bracing		
PF Portal frame	7/16"	12'	Refer to Figure 321.25–A	Refer to Figure 321.25–A	Refer to Figure 321.25–A

<sup>a</sup>The interior side of all exterior walls shall be sheathed with minimum  $\frac{1}{2}$ -inch gypsum wallboard unless otherwise permitted to be excluded by this subsection. All edges of panel-type wall bracing, except horizontal joints in GB bracing, shall be attached to framing or blocking.

<sup>b</sup>The actual measured wall height shall include stud height and thickness of top and bottom plates. The actual wall height shall be permitted to exceed the listed nominal values by not more than 4½ inches. Tabulated bracing amounts in s. SPS 321.25 (8) (c) are based on a 10-foot nominal wall height for all bracing methods and shall be permitted to be adjusted to other nominal wall heights not exceeding 12 feet in accordance with footnotes to Table 321.25–J.

 $^{\circ}$ LIB is not permitted for walls supporting a roof and two floors. Two LIB braces installed at a 60° angle from horizontal shall be permitted to be substituted for each 45° angle LIB brace.

<sup>d</sup>Bracing with CS-WSP and CS-SFB shall have sheathing installed on all sheathable surfaces above, below, and between wall openings.

<sup>e</sup>Shall be attached to the top and bottom plates and any intermediate studs, in one continuous length.

<sup>f</sup>Each braced panel may contain no more than one hole, having a maximum dimension of no more than ten percent of the least dimension of the panel, and confined to the middle three-fourths of the panel.

# **STEP 3: DETERMINE NUMBER OF PANELS OR REQUIRED TOTAL LENGTH OF BRACING REQUIRED USING ONE OF THE FOLLOWING METHODS**

A) Intermittent braced wall panels. Determine the NUMBER of braced panels required on each rectangle side using Table 321.25-I based on the length of the perpendicular side. NOTE a minimum of 2 braced wall panels is required on each rectangle side.

#### Table 321.25–I REQUIRED NUMBER OF INTERMITTENT BRACED WALL PANELS ON WALLS PARALLEL TO EACH RECTANGLE SIDE AT EACH FLOOR LEVEL<sup>a,b,c,d,e,f, h</sup>

	Required Number of Brace Panels on a Building Side Length of Perpendicular Side (feet) <sup>g</sup>			
Wall Support	ing:	≤25	≤50	≤75
Roof and ceiling only		1 <sup>ii</sup>	2	3
One floor, roof and ceiling	ÊÊ	2	4	6

Two floors, roof and ceiling		3	6	9
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<sup>a</sup>Interpolation is permitted. Extrapolation to buildings larger than addressed in this table is prohibited.

<sup>b</sup>This table applies to wind exposure category B. For wind exposure category C or D, multiply the number of braced wall panels required by 1.3 or 1.6, respectively.

Wind exposure category B is comprised of urban and suburban areas, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. Exposure B shall be assumed unless the site meets the definition of another type exposure.

Wind exposure category C is comprised of flat, open country and grasslands with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet extending more than 1,500 feet from the building site in any quadrant. This exposure also applies to any building located within Exposure B type terrain where the building is directly adjacent to open areas of Exposure C type terrain in any quadrant for a distance of more than 600 feet.

Wind exposure category D is comprised of flat, unobstructed areas exposed to wind flowing over open water for a distance of at least 1 mile. This exposure applies only to those buildings and other structures exposed to the wind coming from over the water. Exposure D extends inland from the shoreline a distance of 1,500 feet or 10 times the height of the building or structure, whichever is greater.

<sup>c</sup>Tabulated values are based on a nominal wall height of 10 feet. For nominal wall heights other than 10 feet and not more than 12 feet, multiply the required number of brace panels by the following factors: 0.9 for 8 feet, 0.95 for 9 feet, 1.15 for 11 feet, or 1.3 for 12 feet.

<sup>d</sup>Tabulated values are based on a roof with a top-of-wall-to-ridge height of 10 feet. For top-of-wall-to-ridge heights other than 10 feet, multiply the required number of brace panels by the following factors for each floor level support condition:

Roof only -0.7 for 5 feet, 1.3 for 15 feet, or 1.6 for 20 feet Roof + 1 Floor -0.85 for 5 feet, 1.15 for 15 feet, or 1.3 for 20 feet

Roof + 2 Floors -0.9 for 5 feet or 1.1 for 15 feet.

<sup>e</sup>Where minimum <sup>1</sup>/<sub>2</sub>-inch gypsum wallboard is not included on the interior side of the wall, multiply the number of braced wall panels by 1.7 for LIB bracing or 1.4 for all other bracing methods, except this increase is not required for the portal frame method.

<sup>f</sup>Adjustments in footnotes b to e apply cumulatively. Fractions of panels shall be rounded to the nearest one-half braced wall panel.

<sup>g</sup>Perpendicular sides to the front and rear sides are the left and right sides. Perpendicular sides to the left and right sides are the front and rear sides. See Figure 321.25–B.

<sup>h</sup>The following braced wall panel conditions shall be permitted to be counted as one-half a braced wall panel toward meeting the required number of panels: (1) one 60 degree LIB; (2) one 48" GB or one 96" GB with gypsum wallboard on one side; (3) one 36" WSP or SFB braced wall panel for wall heights not more than 9 feet; (4) a 48" WSP or SFB braced wall panel where there is no more than one unblocked horizontal joint; or (5) one PF brace panel complying with Figure 321.25–A.

<sup>1</sup>This value of less than 2 serves only as the beginning value for calculation purposes. The resulting value shall be 2 or greater, to be consistent with subd. 2.

#### OR

B) Continuously Sheathed braced walls. Determine the TOTAL LENGTH of braced wall panels on each rectangle side using Table 321.25-J based on the length of the perpendicular side.

#### Table 321.25–J REQUIRED LENGTH OF CONTINUOUS BRACING ON WALLS PARALLEL TO EACH RECTANGLE SIDE AT EACH FLOOR LEVEL<sup>a,b,c,d,e,g,h</sup>

Top-of-		Total Required Length (feet) of Full-Height
Wall-to-	Wall Supporting:	Bracing
Ridge		on Any Side of Rectangle

Height (feet)			Length of Perpendicular Side (feet) <sup>f</sup>						
(1000)		10	20	30	40	50	60	70	80
	Roof and ceiling only	2.0 <sup> i</sup>	3.5 <sup>1</sup>	5.0	6.0	7.5	9.0	10.5	12.0
10	One floor, roof and ceiling	3.5 <sup>1</sup>	6.5	9.0	12.0	14.5	17.0	19.8	22.0
	Two floors, roof and ceiling	5.0	9.5	13.5	17.5	21.5	25.5	29.2	33.4
	Roof and ceiling only	2.6 <sup>i</sup>	4.6	6.5	7.8	9.8	11.7	13.7	15.
15	One floor, roof and ceiling	4.0	7.5	10.4	13.8	16.7	19.6	22.9	26.
7	Two floors, roof and ceiling	5.5	10.5	14.9	19.3	23.7	27.5	32.1	36.
	Roof and ceiling only	2.9 <sup>1</sup>	5.2	7.3	8.8	11,1	13.2	15.4	17.
20	One floor, roof and ceiling	4.5	8.5	11.8	15.6	18.9	22.1	25.8	29.
	Two floors, roof and ceiling	6.2	11.9	16.8	21.8	27.3	31.1	36.3	41.

<sup>a</sup>Interpolation is permitted. Extrapolation to buildings larger than addressed in this table is prohibited.

<sup>b</sup>This table applies to wind exposure category B. For wind exposure category C or D, multiply the required length of wall bracing by 1.3 or 1.6, respectively. Wind exposure categories are as defined in Table 321.25–I footnote b.

<sup>c</sup>Tabulated values are based on a nominal wall height of 10 feet. For nominal wall heights other than 10 feet, multiply the required length of bracing by the following factors: 0.90 for 8 feet, 0.95 for 9 feet, 1.05 for 11 feet, or 1.10 for 12 feet.

<sup>d</sup>Where minimum <sup>1</sup>/<sub>2</sub>-inch gypsum wallboard interior finish is not provided, the required bracing amount for the affected rectangle side shall be multiplied by 1.4, except this increase is not required for the portal frame method.

<sup>e</sup>Adjustments in footnotes b to d apply cumulatively.

<sup>f</sup>Perpendicular sides to the front and rear sides are the left and right sides. Perpendicular sides to the left and right sides are the front and rear sides. See Figure 321.25–B.

<sup>g</sup>Continuous sheathing shall be applied to all surfaces of the wall, including areas between brace panels and above and below wall openings.

<sup>h</sup>When used on a wall line with continuous sheathing, each portal frame panel is counted for its actual length in contributing toward the length of continuous sheathing used on other portions of the same wall line, such as the building side at a given story level.

<sup>1</sup>Any value of less than 4.0 in this table serves only as the beginning value for calculation purposes. The resulting value shall be 4.0 or greater, to be consistent with Table 321.25–H and subd. 2.

**STEP 4:** If required, apply any adjustment factors (adjustments may decrease or increase the required bracing amount) per the footnotes to the respective Table for the method used (intermittent or continuous). For example wall heights taller than 10' and wind exposure category C or D would both increase the bracing amount. Absence of interior <sup>1</sup>/<sub>2</sub>" gypsum board sheathing increases the required bracing amount.

STEP 5: Repeat steps 2 through 4 considering wind in the perpendicular direction.

**STEP 6:** Determine the minimum required width of braced wall panels. For intermittent bracing method the minimum length of braced wall panel is given in Table 321.25-G (see step 2 above). For continuously sheathed bracing method the minimum width is determined using Table 321.25-H dependent on the maximum opening height adjacent to the panel and the wall height.

Maximum Opening Height Adjacent to Braced Wall Panel	Minimum Width of Full-Height Braced Wall Panel (inches)						
	8' Tall Wall	9' Tall Wall	10' Tall Wall	12' Tall Wall			
5'- 4"	24	27	30	36			
6'- 8''	32	30	30	36			
8'	48	41	38	36			
9'	-	54	46	41			
10'	-	-	60	48			
12'	-	-		72			

<b>Table 321.25-H<sup>a, b</sup></b>				
MINIMUM WIDTHS OF CS-WSP AND CS-SFB BRACED WALL PANE	LS			

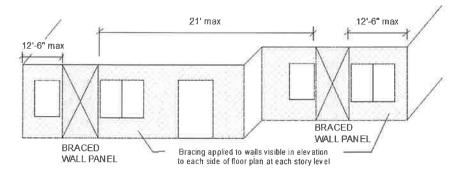
<sup>a</sup>Sheathing shall extend from the top of the top plate to the bottom of the bottom plate and may be multiple sheets. All joints shall be blocked.

<sup>b</sup>Interpolation is permitted.

**PF (Portal Frame) Method**: Portal Frame narrow panel bracing may be used with either the intermittent or continuously sheathed bracing methods. For Intermittent bracing, per Table 321.25-I footnote 'h', each PF panel (16-24" wide per Figure 321.25-A) counts as ½ of a braced wall panel when determining compliance with Table 321.25-I. For Continuously Sheathed bracing, the actual length of each PF panel (16-24" wide per Figure 321.15-A) in feet, counts toward the required total length of bracing required.

**STEP 7:** Check that the location of braced wall panels meets Figure 321.25-C. A braced wall panel must start within 12 ½' from the end of the rectangle side and braced panels must be spaced a maximum of 21' edge to edge along the rectangle side. For intermittent or continuous methods, each PF panel meeting the minimum required width of Fig. 321.25-A counts as a braced wall panel when evaluating compliance with Fig. 321.25-C.

#### FIGURE 321.25–C LOCATION OF BRACED WALL PANELS ALONG A BUILDING SIDE<sup>a</sup>



<sup>a</sup>A braced wall panel can be anything from one-half to one brace panel.

STEP 8: Repeat steps 1 through 7 for additional floor levels.

**See also** the One- and Two-Family Dwellings (Uniform Dwelling Code) Program web page for a Frequently Asked Questions document that provides further guidance and explanation on the use of the wall bracing permanent rule provisions.

# MINIMUM WIDTH OF BRACED WALL PANEL BETWEEEN END OF WALL AND GARAGE DOOR

(Assuming garage end wall is the end of a rectangle side)

	WALL HEIGHT						
METHOD	8'	9'	10'	11'	12'		
PORTAL FRAME <sup>1,2</sup>	16″	18"	20"	22″	24"		
CONTINUOUS <sup>3</sup> SHEATHING (HEIGHT OF DOOR OPENING)					3		
6'8"	32″	30″	30″	33″	36"		
8'	48"	41"	38″	37"	36"		
9'		54"	46"	43.5″	41"		
10'			60"	54″	48"		
12'					72″		
INTERMITTENT <sup>3</sup>	36″ <sup>4</sup>	36"4	48"	48"	48"		

<sup>1</sup> If using Intermittent Sheathing on the remainder of the rectangle side, a Portal Frame panel counts as ½ panel toward the total number of panels needed.

<sup>2</sup> A full-height braced wall panel must go immediately on the other side of the garage door opening.

<sup>3</sup> As long as the first panel starts within 12.5' of the end, there is no minimum width.

<sup>4</sup> Counts as ½ panel toward the total number of panels needed.

#### Wall Bracing Compliance Worksheet

Complete this worksheet or provide equivalent information on the plans submitted with the permit application.

Sketch and dimension the building plan and the wall bracing rectangle(s) per 321.25(8)(c)1. and Figure 321.25-B. Provide and label additional sketches if the building plan/rectangles change at different floor levels.

Indicate applicable Wall Bracing Method for each level (see Table 321.25-G), each labeled rectangle if more than one [see 321.25(8)(c)], and amount of bracing (# of braced panels or length of braced wall required) per the respective table (provide additional worksheets for additional rectangles as needed):

Rectangle: Wall Ht. =	Eave to	Eave to Ridge Ht. =		Max. Opening Ht. =		
Walls Supporting:	Intermittent	Intermittent method (LIB,		Continuous method (CS-		see Figure
	DWB, WSP,	SFB, GB,	WSP, CS-SF	WSP, CS-SFB) and total		Indicate
	PCP) and # of panels per		length required per Table		number of PF panels 16-	
	Table 321.25	-I	321.25-J		24" wide pro	ovided.
	Min. panel width (Table		Min. panel width (Table		Min. PF width (Fig.	
	321.25-G) =		321.25-H) =		321.25-A) =	
	Long side	Short side	Long side	Short side	Long side	Short side
Roof and ceiling only						
One floor, roof and ceiling						
Two floors, roof and	·					
ceiling						

	/all Ht. =	Eave to	Ridge Ht. =	Max. Oper	ning Ht. =	Wind Exp. =	
Walls Supporting:		Intermittent method (LIB,		Continuous method (CS-		PF Method (see Figure	
		DWB, WSP, SFB, GB,		WSP, CS-SFB) and total		321.25-A). Indicate	
		PCP) and # of panels per		length required per Table		number of PF panels 16-	
		Table 321.25-1		321.25-Н		24" wide provided.	
		Min. panel width (Table		Min. panel width (Table		Min. PF width (Fig.	
			321.25-G) =		321.25-H) =		
		Long side	Short side	Long side	Short Side	Long side	Short side
Roof and ceiling on	ly						
One floor, roof and	ceiling						
Two floors, roof an	d						
ceiling							

**PF Method**: For Intermittent bracing, per Table 321.25-I footnote 'h', each PF panel (16-24" wide per Figure 321.25-A) counts as ½ of a braced wall panel when determining compliance with Table 321.25-I. For Continuously Sheathed bracing, the actual length of each PF panel (16-24" wide per Figure 321.25-A) in feet counts toward the required total length of bracing required. For intermittent or continuous methods, each PF panel meeting min. required width of Fig. 321.25-A counts as a braced wall panel when evaluating panel spacing per Fig. 321.25-C.

Indicate the location and construction details of required braced wall panels determined above on each rectangle side as required by Figure 321.25-C on the floor plans submitted with the permit application.



Wisconsin Chapter

# ELECTRICAL LICENSING GUIDE

# Wisconsin's New Law

Many of the recent changes to Wisconsin's electrical licensing law were established by legislation passed in March of 2008. In addition to requiring statewide licensing, this legislation provided for a 5-year delayed effective date (April 1, 2013) to give people time to get the credentials required by the 2008 law.

# The Important Facts You Need to Know

- **Effective April 1, 2014** Everyone (with certain exceptions) working as an electrician or in business as an electrical contractor will need to be licensed or registered with the Wisconsin Department of Safety and Professional Services (DSPS).
- Electricians If you have a current DSPS electrical credential (i.e. Master license, Journeyman license, Apprentice or Beginning Electrician registration) you will be in compliance with the new law.
- Apprentices If you are an active apprentice in a registered apprenticeship program, and have a current DSPS electrical credential (i.e. Apprentice or Beginning Electrician registration), you will be in compliance with the new law.
- **Electrical Contractor** If you have a current Electrical Contractor license and you are or employ a Master Electrician, you will be in compliance with the new law. If you are not a Master Electrician or do not employ a Master electrician, you will need to meet this requirement in order to be an Electrical Contractor.
- No DSPS Credential If you do not have a current DSPS credential, you will need to either obtain a Master Electrician license, Journeyman license, or register as a Beginning Electrician. Beginning Electricians will be "converted" to Registered Electricians in the future.
- **Exemptions** Many types of "electrical work" are exempt from the licensing requirement.
- Grandfathering There is a very limited grandfathering clause affecting only individuals born before January 1, 1956.
- **Further Details** Many "details" not addressed in the law will be established by Administrative Rules. The Administrative Rules have not yet been approved.

# How ABC Can Help You

ABC of Wisconsin Electrical Exam Preparation Training —

Starting April 2, 2014. This is a review course to prepare for the Wisconsin Journeymon and Masters electrical exams. See <u>www.abcwi.org</u> for more information.



ELECTRICAL LICENSING GUIDE

# Wisconsin's New Law

#### Wisconsin Chapter

## Legislative Changes Began in 2008

Many of the recent changes to Wisconsin's electrical licensing law were established by legislation passed in March of 2008. In addition to requiring statewide licensing, this legislation provided for a 5-year delayed effective date (April 1, 2013) to give people time to get the credentials required by the 2008 law.

As the effective date approached, some of those regulated by the new law raised concerns and in March of 2013 the legislature pushed back the effective date of the legislation another year (April 1, 2014) in order to consider changes. In February of 2014 the legislature passed new legislation making several changes to the 2008 law but keeping the effective date of April 1, 2014.

Now, under provisions that will become law on <u>11, 2014</u>, no person may <u>work as an electrician</u>, and no person<sup>i</sup> may <u>engage in business</u> as an electrical contractor, unless that person is licensed by, or registered with, the Department of Safety and Professional Services.

## Credentialing Requirements Effective April 1, 2014

Electrical Contractor	<ul> <li>No person may engage in the business of installing, repairing, or maintaining electrical wiring unless the person is licensed as an electrical contractor by the department of safety and professional services.</li> <li>No person who is not a master electrician may install, repair, or, maintain electrical wiring unless a master electrician is at all times responsible for the person work.</li> </ul>
	at all times responsible for the persons work.
	At least one of the following:
	A bachelor's degree or master's degree in electrical engineering, followed by passage of an examination.
	$\checkmark$ 12 months of experience as a journeyman electrician, followed by passage of an examination.
	$\checkmark$ 60 months, with at least 10,000 hours experience, followed by passage of an examination.
Journeyman Electricians	At least one of the following:
	Completion of a construction electrician apprenticeship program lasting at least 3 years <sup>#</sup> and that is approved by the U.S. department of labor or the department of workforce development, followed by passage of an examination.
	✓ 48 months, with at least 8,000 hours experience, followed by passage of an examination (completion of a 2-year approved program shall be equivalent to 12 months and 2,000 hours of experience).
Apprentice Electricians	The department of safety and professional services must promulgate rules for the registration of electrical apprentices.
(formerly Beginning Electricians)	
	$\checkmark$ Registered electricians must be supervised by licensed journeyman or master electricians.
	<ul> <li>The department must promulgate rules to differentiate the scope of installation, repair, or maintenance of electrical wiring that may be performed by registered electricians.</li> </ul>
Grandfathering	Persons born on or before January 1, 1956 and who have at least 15 years of experience in installing, repairing, or maintaining electrical wiring will be regulated under separate rules to be developed.
	<ul> <li>It is generally presumed that these individual will not be required to pass an examination and may be limited by othe restriction.</li> </ul>



**ELECTRICAL LICENSING GUIDE** 

services by the electricity provider.

#### Wisconsin Chapter

# Wisconsin's New Law

# **Exemptions to Wisconsin's Electrical Licensing Law**

9

- 1. A residential property owner who installs, repairs, or maintains electrical wiring on premises that the property owner owns and occupies as a residence, unless a license or registration issued by the department is required by local ordinance.
- A person engaged in maintaining or repairing electrical wiring within an 2. existing facility or on premises owned or leased by the person or by an entity for which the person is an agent or employee.
- A person engaged in installing, repairing, or maintaining electrical 3. wiring, apparatus, or equipment for elevators and escalators.
- A person engaged in installing, repairing, or maintaining equipment or 4 systems that operate at 100 volts or less.
- A person engaged in installing, repairing, or maintaining an electronic 5. system designed to monitor a premise for the presence of an emergency, to issue an alarm for an emergency, or to detect and summon aid for an emergency.
- 6. A person engaged in installing, repairing, or maintaining electrical wiring of facilities that support telecommunication services that is provided by a telecommunications provider.
- 7. A person engaged in installing, repairing, or maintaining manufactured equipment or utilization equipment, including ballasts, electric signs and luminaries or any other manufactured system that is designed to provide a function that is not primarily electrical in nature if the installation, repair, or maintenance does not involve the modification or installation of branch circuit conductors that are external to the manufactured or utilization equipment or other manufactured system.
- 8. A person engaged in installing electrical wiring for components of a manufactured home or a manufactured building, while the manufactured home or the manufactured building is at or in the facility at which it is being manufactured.

10. A person engaged in installing, repairing, or maintaining electrical wiring that provides lighting or signals for public thoroughfares and for public airports.

A person employed by an electricity provider, or a subcontractor of an

electricity provider, who installs, repairs, or maintains electrical wiring

for equipment that is installed in the normal course of providing utility

- 11. A person engaged in installing, repairing, or maintaining electric lines on the utility side of substations and other distribution facilities owned or operated by customers or members of electricity providers.
- 12. A person employed by an electricity provider, or a subcontractor of an electricity provider, who installs, repairs, or maintains primary voltage electric facilities that are owned by the electricity provider's customers or members and that operate at greater than 600 volts.
- 13. A person employed by an electricity provider, or a subcontractor of an electricity provider, who restores service during an emergency.
- 14. A person who installs a replacement for an existing switch or outlet, if the replacement switch or outlet has a rating of not more than 20 amperes.
- 15. A person engaged in installing electrical wiring within an existing industrial facility or existing manufacturing facility owned or leased by the person or by an entity for which the person is an agent or employee.
- 16. A person who installs electrical wiring without receiving payment in a new one or two family dwelling that is being constructed by a qualified nonprofit corporation.

## **Municipal Authority**

Municipal licenses and registrations issued to electricians, electrical contractors, and electrical inspectors are no longer valid (or required) as of March 31, 2014. Municipalities may no longer impose any registration, licensing, or certification requirements on electrical contractors, electricians, or electrical inspectors. And no person may work as an electrician, and no person may engage in business as an electrical contractor, unless that person is licensed by, or registered with, the Department of Safety and Professional Services.

## Reciprocity

Many of the most recent changes were intended to facilitate reciprocal agreements with neighboring states. The 2014 legislation allows the department to enter into reciprocal agreements with other states provided the credentials are comparable, the individual submits an application, and pays the fee. It is presumed the department will begin to negotiation such agreements.



ELECTRICAL LICENSING GUIDE

# Wisconsin's New Law

**Wisconsin Chapter** 

#### Topics to be Further Defined in Administrative Rules

Inspections	<ul> <li>Current law requires the department to establish rules for the inspection of electrical wiring.</li> <li>This legislation prohibits the department from requiring inspection of electrical wiring in an existing industrial facility unless the project required plan review.</li> <li>Under the bill, all inspections shall be performed by inspectors certified by the department.</li> <li>Promulgate rules that establish criteria for the certification of electrical inspectors.</li> </ul>
Registered electricians and electrical apprentices	<ul> <li>Promulgate rules that establish criteria for the enrollment of registered electrician and the registration of electrical apprentices.</li> <li>Promulgate rules that establish requirements for the supervision of registered electricians.</li> </ul>
Registration and licensing procedure	✓ Promulgate rules that establish the procedures for the licensing of journeyman electricians and master electricians.
Suspension or revocation	<ul> <li>Establish criteria and a process for the suspension and revocation of registrations and licenses.</li> </ul>
Types of electricians	<ul> <li>The department may promulgate rules that recognize and regulate different types and subtypes of electricians.</li> </ul>
Scope of work	<ul> <li>Promulgate rules to differentiate the scope of installation, repair, or maintenance that may be performed by electrical contractors, registered electricians, journeyman electricians, master electricians, and any additional type of electrician created in rules.</li> </ul>
Continuing Education	<ul> <li>Continuing Education requirements for all types of electricians will be defined in Administrative Rule.</li> </ul>

#### **Additional Resources**

- For Master or Journeyman electrician exam locations check the Department of Safety and Professional Services website (www.dsps.wi.gov).
- If you are unable to schedule an exam before April 1, 2014, register as a "Beginning Electrician" on the DSPS website (www.dsps.wi.gov).
- ABC of Wisconsin has Electrical Exam Preparation training (Master and Journeyman) scheduled starting on April 2nd and concluding on May 21st. Visit <u>www.abcwi.org</u> and click on the "events" tab for more details. For more information contact Elizabeth Roddy at 608-244-6050 or <u>eroddy@abcwi.org</u>.
- For questions about this document contact: John Mielke at 608-244-5883 or jmielke@abcwi.org.

This guide is intended to be a summary of the major provisions of Wisconsin's electrical licensing laws. For actual language<sup>iii</sup> refer to Wisconsin State Statute Ch. 101 and Wisconsin Administrative Rule SPS 305.40.

See "Exemptions to Wisconsin's Electrical Licensing Laws"

The actual length of approved apprenticeship programs is determined by either the Wisconsin Bureau of Apprenticeship Standard or the U.S. Department of Labor Websites and printed material may not yet be updated to reflect changes in law and Administrative Rule resulting in confusing or seemingly contradictory information.

Associated Builders and Contractors of Wisconsin, Inc.

5330 Wall Street, Madison, WI 53718 Phone: 608-244-5883 www.abcwi.org



# Erosion Control for Home Builders

By controlling erosion, home builders help keep our lakes and streams clean

## roding construction sites are a leading cause of water quality problems in Wisconsin. For every acre under construction, about a dump truck and a half of soil washes into a nearby lake or stream unless the builder uses erosion controls. Problems caused by this sediment include:



## to local government budgets. Lower property values

Neighboring property values are damaged when a lake or stream fills with sediment. Shallow areas encourage weed growth and create boating hazards,

Cleaning up sediment in streets, sewers and ditches adds extra costs

#### Poor fishing

Taxes

Muddy water drives away fish like northern pike that rely on sight to feed. As it settles, sediment smothers gravel beds where fish like smallmouth bass find food and lay their eggs. Soil particles in suspension can act like a sand blaster during a storm and damage fish gills.

#### Nuisance growth of weeds and algae

Sediment carries fertilizers that fuel algae and weed growth.

#### Dredging

The expense of dredging sediment from lakes, harbors and navigation channels is paid for by taxpayers.

This fact sheet includes the diagrams and step-bystep instructions needed by builders on most home sites. Additional controls may be needed for sites that have steep slopes, are adjacent to lakes and streams, receive a lot of runoff from adjacent land, or are larger than an acre.

If you need help developing an erosion control plan or training your staff, contact your local building inspection, zoning or erosion control office.

# Controlling Erosion is Easy

Erosion control is important even for home sites of an acre or less. The materials needed are easy to find and relatively inexpensive - straw bales or silt ferice, stakes, gravel, plastic tubes, and grass seed. Putting these materials to use is a straightforward process. Only a few controls are needed on most sites:

- Preserving existing trees and grass where possible to prevent erosion;
- Revegetating the site as soon as possible;

Silt fence or straw bales to trap sediment on the downslope sides of the lot;

- Placing soil piles away from any roads or waterways;
- Diversions on upslope side and around stockpilkes;
- Storie/rock access drive used by all vehicles to limit tracking of mud onto streets;
- Cleanup of sediment carried off-site by vehicles or storms; and
- Downspout extenders to prevent erosion from roof runoff.

GWQ001 Erosion Control for Home Builders, Additional copies are available from Cooperative Extension Publications, 45 N. Charter SL, Madison, WI 53715. 608/262-3346 (Ioll-free 877-947-7827) or Depl. of Commerce, P.O. Box 2509, Madison, WI 53701-2509, 608/267-4405



#### EROSION CONTROL PRACTICES FOR HOME SITES



A poorly installed silt fence will not prevent soll erosion. Fabric must be buried in a trench and sections must overlap (see diagram on back of this fact sheet).

#### WARNING! Extra measures may be needed if your site:

- is within 300 feet of a stream or wetland;
- is within 1000 feet of a lake;
- is steep (slopes of 12% or more);
- receives runoff from 10,000 sq. ft. or more of adjacent land;
- has more than an acre of disturbed ground.

For information on appropriate measures for these sites, contact your local building inspection, zoning or erosion control office. Straw Bale or Silt Fence

- Install within 24 hours of land disturbance.
- Install on downslope sides of site parallel to contour of the land.
- Extended ends upslope enough to allow water to pond behind fence.
- Bury eight inches of fabric in trench (see back page).
- Stake (two stakes per bale).
- Leave no gaps. Stuff straw between bales, overlap sections of silt fence, or twist ends of silt fence together.
- Inspect and repair once a week and after every ½-inch rain. Remove sediment if deposits reach half the fence height. Replace bales after three months.
- Maintain until a lawn is established.

#### Soll Piles

- Cover with plastic and locate away from any downslope street, driveway, stream, lake, wetland, ditch or drainageway.
- Temporary seed such as annual rye or winter wheat is recommended for topsoil piles.

#### Access Drive

- Install an access drive using two-tothree-inch aggregate prior to placing the first floor decking on foundation.
- Lay stone six inches deep and at least seven feet wide from the foundation to the street (or 50 feet if less).
- Use to prevent tracking mud onto the road by all vehicles.
- Maintain throughout construction.
- In clay soils, use of geotextile under the stone is recommended.
- Sediment Cleanup
- By the end of each work day, sweep or scrape up soil tracked onto the road.
- By the end of the next work day after a storm, clean up soil washed off-site.

#### Sewer inlet Protection

- Protect on-site storm sewer inlets with straw bales, silt fences or equivalent measures.
- Inspect, repair and remove sediment deposits after every storm.

#### Downspout Extenders

- Not required, but highly recommended.
- Install as soon as gutters and downspouts are completed to prevent erosion from roof runoff.
- Use plastic drainage pipe to route water to a grassed or paved area. Once a lawn is established, direct runoff to the lawn or other pervious areas.
- · Maintain until a lawn is established.

#### Preserving Existing Vegetation

- Wherever possible, preserve existing trees, shrubs, and other vegetation.
- To prevent root damage, do not grade, place soil piles, or park vehicles near trees marked for preservation.
- Place plastic mesh or snow fence barriers around trees to protect the root area below their branches.

#### Revegetation

 Seed, sod or mulch bare soil as soon as possible. Vegetation is the most effective way to control erosion.

#### Seeding and Mulching

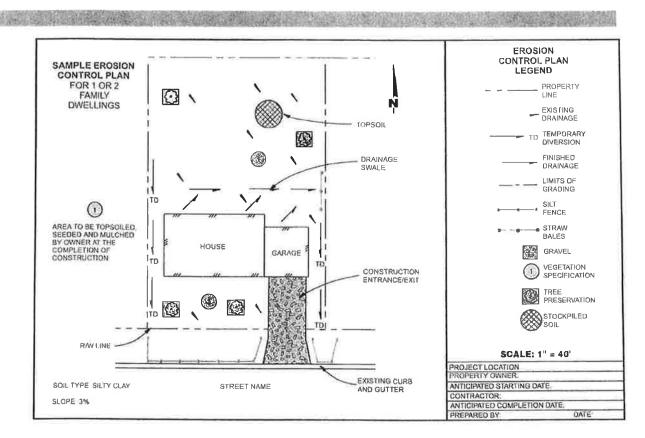
- Spread four to six inches of topsoil.
- Fertilize and lime if needed according to soil test (or apply 10 lb./1000 sq. ft. of 10-10-10 fertilizer).
- Seed with an appropriate mix for the site (see table).
- Rake lightly to cover seed with 1/4" of soil. Roll lightly.
- Mulch with straw (70-90 lb. or one bale per 1000 sq. ft.).
- Anchor mulch by punching into the soil, watering, or by using netting or other measures on steep slopes.
- Water gently every day or two to keep soil moist. Less watering is needed once grass is two inches tall.

# Standard Erosion Control Plan for 1- & 2-Family Dwelling Construction Sites

According to SPS 320 & 321 of the Wisconsin Uniform Dwelling Code, soil erosion control information needs to be included on the plot plan which is submitted and approved prior to the issuance of building permits for 1- & 2-family dwelling units in those jurisdictions where the soil erosion control provisions of the Uniform Dwelling Code are enforced. This Standard Erosion Control Plan is provided to assist in meeting this requirement.

#### Instructions:

- 1. Complete this plan by filling in requested information, completing the site diagram and marking appropriate boxes on the inside of this form.
- 2. In completing the site diagram, give consideration to potential erosion that may occur before, during, and after grading. Water runoff patterns can change significantly as a site is reshaped.
- PROJECT LOCATION \_\_\_\_\_ Please indicate north OWNER by completing the arrow. BUILDER WORKSHEET COMPLETED BY \_\_\_\_\_ DATE SITE DIAGRAM Scale: 1 inch = feet EROSION CONTROL PLAN LEGEND PROPERTY \_ \_ \_ \_ \_ \_ LINE EXISTING DRAINAGE TD TEMPORARY DIVERSION FINISHED DRAINAGE LIMITS OF GRADING SILT FENCE STRAW BALES 24 GRAVEL VEGETATION SPECIFICATION TREE PRESERVATION STOCKPILED SOIL
- 3. Submit this plan at the time of building permit application.



#### Sodding

- Spread four to six inches of topsoil.
- Fertilize and lime if needed according to soil test (or apply 10 lb./1000 sq. ft. of 10-10-10 fertilizer).
- Lightly water the soil,
- Lay sod. Tamp or roll lightly.
- On slopes, lay sod starting at the bottom and work toward the top. Laying in a brickwork pattern. Peg each piece down in several places.
- Initial watering should wet soil six inches deep (or until water stands one inch deep in a straight-sided container). Then water lightly every day or two to keep soil moist but not saturated for two weeks.
- Generally, the best times to sod and seed are early fall (Aug. 15-Sept. 15) or spring (May). If construction is completed after September 15, final seeding should be delayed. Sod may be laid until November 1. Temporary seed (such as rye or winter wheat) may be planted until October 15.

Mulch or matting may be applied after October 15, if weather permits. Straw bale or silt fences must be maintained until final seeding or sodding is completed in spring (by June 1).

Concrete Wash Water

 Dispose of concrete wash water in an area of soil away from surface waters where soil can act as a filter or evaporate the water. Dispose of remaining cement. Be aware that this water can kill vegetation.

#### De-Watering

 Dispose of de-watering water in a pervious area. Prevent the discharge of sediment from dewatering operations into storm sewers and surface waters.

Material Storage

 Manage chemicals, materials and other compounds to avoid contamination of runoff.

#### **Typical Lawn Seed Mixtures**

Grass	Percent b Sunny Site	y Weight <b>Shady Site</b>
Kentucky		4.50/
bluegrass	65%	15%
Fine fescue	20%	70%
Perennial ryegrass	15%	15%
Seeding ra	te 3-4	4-5

(lb./1000<sup>-</sup>sq. ft.). Source: R.C. Newman, Lawn Establishment, UW-Extension, 1988. NOT APPLICABLE

# **EROSION CONTROL PLAN CHECKLIST**

Check () appropriate boxes below, and complete the site diagram with necessary information.

## Site Characteristics

North arrow, scale, and site boundary. Indicate and name adjacent streets or roadways.

Location of existing drainageways, streams, rivers, lakes, wetlands or wells.

Location of storm sewer inlets.

Location of existing and proposed buildings and paved areas.

The disturbed area on the lot.

Approximate gradient and direction of slopes before grading operations.

Approximate gradient and direction of slopes after grading operations.

Overland runoff (sheet flow) coming onto the site from adjacent areas.

## **Erosion Control Practices**

Location of temporary soil storage piles.

Soil storage piles should be placed behind a sediment fence, a 10 foot wide Note: vegetative strip, or should be covered with a tarp or more than 25 feet from any downslope road or drainageway.

Location of access drive(s).

- Note: Access drive should have 2 to 3 inch aggregate stone laid at least 7 feet wide and 6 inches thick. Drives should extend from the roadway 50 feet or to the house foundation (whichever is less).
- Location of sediment controls (filter fabric fence, straw bale fence or 10-foot-wide vegetative strip) that will prevent eroded soil from leaving the site.
- Location of sediment barriers around on-site storm sewer inlets.

#### Location of diversions.

Note: Although not specifically required by code, it is recommended that concentrated flow (drainageways) be diverted (re-directed) around disturbed areas. Overland runoff (sheet flow)from adjacent areas greater than 10,000 sq. ft. should also be diverted around disturbed areas.

- Location of practices that will be applied to control erosion on steep slopes (greater than 12% grade).
  - Note: Such practices include maintaining existing vegetation, placement of additional sediment fences, diversions, and re-vegetation by sodding or seeding with use of erosion control mats.
  - Location of practices that will control erosion on areas of concentrated runoff flow.
    - Unstabilized drainageways, ditches, diversions, and inlets should be protected Note: from erosion through use of such practices as in-channel fabric or straw bale barriers, erosion control mats, staked sod, and rock rip-rap. When used, a given in-channel barrier should not receive drainage from more than two acres of unpaved area, or one acre of paved area. In-channel practices should not be installed in perennial streams (streams with year round flow).
- Location of other planned practices not already noted.

	TABLE 322.31-1			
INSULATION A	ND FENESTRATION REQUIR	EMENTS BY COMPONEN	Ca	
	Wood	Basement	Heated	L <sub>1</sub>

Zone	Fenestration U-Factor	Skylight U–Factor	Ceiling R–Value	Wood Frame Wall R-Value	Mass Wall R–Value	Floor R-Value	or Crawl Space Wall R-Value <sup>b</sup>	Heated Slab R–Value <sup>c</sup>	Unheated Slab R–Value <sup>d</sup>	
ţ,	0.35	0.60	49°	19 <sup>f</sup> or 13+58	15	30 <sup>h</sup>	10/13	10/15	10	
2	0.35	0.60	49°	211	19	30 <sup>h</sup>	10/13	10/15	10	

A R-values are minimums. U-factors are maximums.

<sup>b</sup> The first R-value applies to continuous insulation. The second R-value applies to framing cavity insulation. Either insulation meets the requirement.

<sup>c</sup> The first R-value applies under the entire slab, regardless of depth below grade. The second R-value applies to the slab edge where the bottom of the slab is less than 12 inches below adjacent grade. Slab edge insulation shall extend downward from the top of the slab for a minimum of 48 inches or downward to at least the bottom of the slab and then horizontally to the interior or exterior for a minimum total distance of 48 inches. Also, see s. SPS 321.16 for protection against frost for slabs with supports less that 4 feet below grade.

<sup>d</sup> The R-value applies to any slab, the bottom of which is less than 12 inches below adjacent grade. Also, see s. SPS 321.16 for protection against frost for slabs with supports less than 4 feet below grade.

e Sce s. SPS 322.32 (1) for application and permitted reduced R-value.

f R-19 and R-21 may be compressed into a 2X6 cavity.

B "13+5" means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25% or less of the exterior, insulating sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25% of the exterior, structural sheathing shall be covered with insulated sheathing of at least R-2.

 $^{\rm h}$  Or insulation sufficient to fill the framing cavity with a minimum of R–19.

TABLE 322.31-2 EQUIVALENT U-FACTORS

Zone	Fenestration U-Factor	Skylight U-Factor	Ceiling U-Factor	Wood Frame Wall U-Factor	Mass Wall U-Factor	Floor U-Factor	Basement Wall U-Factor	Crawl Space U-Factor	
1	0.35	0.60	0.026	0.060	0.060	0.033	0.065	0.065	
2	0.35	0.60	0.026	0.057	0.057	0.033	0.065	0.065	

TABLE 322.31-3

#### WARM AIR FURNACES AND BOILERS, MINIMUM EFFICIENCY REQUIREMENTS

Equipment Type	Minimum Efficiency	Test Procedure
Natural gas and propane furnace	90% AFUE	DOE 10 CFR Part 430 or ANSI Z21.47
Natural gas and propane hot water boilers	90% AFUE	DOE 10 CFR Part 430
Oil-fired furnaces	83% AFUE	DOE 10 CFR Part 430 or UL 727
Oil-fired hot water boilers	84% AFUE	DOE 10 CFR Part 430

The Wisconsin Administrative Code on this web site is current through the last published Wisconsin Register. See also Are the Codes on this Register December 2011 No. 672 Website Official?

Please Call \_\_\_\_\_\_ for inspections:

24 Hours Notice is Appreciated

Wisconsin Administrative Code, SPS 320.10(2)(b)1:"The applicant or an authorized representative shall request inspections from the municipality ...."

Below are shown therequired inspections you must call for:

# NOTICE **REQUIRD INSPECTIONS**

SEWER EROSION CONTROL FOOTINGS (BEFORE POURING) FOUNDATION & DRAIN TILE (BEFORE POURING) UNDERFLOOR PLUMBING VAPOR RETARDER (Under Basement Floor) TEMPORARY ELECTRICAL SERVICE ROUGH CONSTRUCTION ROUGH PLUMBING ROUGH ELECTRIC **ROUGH HEATING- A/C** SERVICE- PERMANENT ELECTRICAL **INSULATION** FINAL INSPECTION (OCCUPANCY)

Dept of Safety & Professional Services Industry Services Division						Wisconsin Uniform Building Application No. Permit Application											
Wiscons	in Stats. 1	01.63, 10	1.73	Instructions used by other	on bacl govern	k of second p ment agency	<b>ly.</b> Th progra	e informa ams [(Priv	ation you p vacy Law, s	rovide ma s. 15.04 (1	y be )(m)]	Par	rcel l	No.			
PERM	IIT RE	OUES	TED	Constr.	ΠH	VAC 🗆 E	lectr	ric 🗆 F	Plumbing	g 🗆 Ero	osion (	Cont	rol		her:		
Owner's		<b>L</b>				uling Address							-	Tel			
	or Name &				Lic	c/Cert#	N	Iailing A	ddress					Tel	. & Fax		
	g Contract		r.)														
	g Contr. Q	ualifier							ing Contr. 3 or employ								
HVAC																	
Electrica																	
Plumbin				-													
PROJE LOCA		Lot area	Sq.ft.	□ One acre soil will be			Villag	ge □City o		/4,	_ 1/4, of S	ection		, т	<u> </u> N	I, R	E/W
Building	Address				Count	ty			Subdivisio	n Name				Lot 1	No.	Block	No.
Zoning I	District(s)			Zoning Perr	nit No.		Seth	oacks:	Front	ft.	Rear	ft.	L	eft	ft.	Right	ft.
1. PROJ	ECT			3. OCCUPA		6. ELECTRI			C EQUIP.	12. ENE	RGY SC	URCI					
□ New □ Alterat	ion	□ Repair □ Raze		□ Single Fan □ Two Famil		Entrance Pane Amps:	el	□Furna □Radia	ce nt Basebd	Fuel	Na Ga		LP	Oil	Elec	Solid	Solar Geo
		$\square$ Move		□ Garage	,	Undergrou	nd			Space H	tg 🗌						
□ Other:				□ Other:				□Boiler □Centr		Water H	tg						
2. AREA	INVOLVI	ED (sq ft)		4. CONST. T	YPE	7.WALLS	ne										
	Unit 1	Unit 2	Total	□ Site-Built		□ Steel		□Other		13. HEA	T LOSS						
Unfin.				□Mfd. per W	I UDC	□ ICF											
Bsmt				□Mfd. per U	5	□ Timber/Po	e	10. SEWER								Total Cal	
Living				HUD		□ Other:		□Municipal		Envelope and Infiltration Losses (available from "Total Building Heating Load" on Rescheck report)						al	
Area				5. STORIES		8. USE		□ Sanitary Permit#		Dunung	incuring	Louid		coonee	litepoit	,	
Garage				□ 1-Story		□ Seasonal				-							
Deck/ Porch				□ 2-Story		Permanent		11. WA	TER	14. EST. BUILDING COST w/o LAND							
				$\Box$ Other:		□ Other:		🗆 Muni									
Totals							□ On-Site Well \$										
any condi information managem permission	I understand that I: am subject to all applicable codes, laws, statutes and ordinances, including those described on the reverse side of the last ply of this form; am subject to any conditions of this permit; understand that the issuance of this permit creates no legal liability, express or implied, on the state or municipality; and certify that all the above information is accurate. If one acre or more of soil will be disturbed, I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and the owner shall sign the statement on the back of the permit if not signing below. I expressly grant the building inspector, or the inspector's authorized agent, permission to enter the premises for which this permit is sought at all reasonable hours and for any proper purpose to inspect the work which is being done. I vouch that I am or will be an owner-occupant of this dwelling for which I am applying for an erosion control or construction permit without a Dwelling Contractor Certification and have read the cautionary statement regarding contractor responsibility on the reverse side of the last ply of this form.																
APPL	CANT	(Print:)				Si											
APPR	OVAL (	CONDI	TIONS			ed pursuant to th alty. $\Box$ See at						esult in	susp	ension	or revo	cation of	this
								1									
ISSUI JURIS	NG DICTI(		Fown of ⊔	Village of ⊔C	ty of ⊔0	County of □Sta	ate→	State-C Agency	ontracted Ins #:	pection	Municip	ality N	Numb	er of L	welling	Location	
FEES:				PH	RMIT(	S) ISSUED	WIS	PERMIT	SEAL #	PERMIT	ISSUED	BY:					
Plan Rev		\$			Constru					N							
Inspection Wis. Per					HVAC Electric					Name							
Other		\$			Plumbi	ing				Date		Те	el				
Total		\$			Erosio	n Control				Cert No.							

SBD-5823(R07/16) Distribute: 🗆 Ply 1 – Issuing Jurisdiction; 🗆 Ply 2- Issuer forwards to state w/in 30 days; 🗆 Ply 3- Inspector; 🗆 Ply 4- Applicant

(Part of Ply 4 for Applicants)

## **Cautionary Statement to Owners Obtaining Building Permits**

101.65(lr) of the Wisconsin Statutes requires municipalities that enforce the Uniform Dwelling Code to provide an owner who applies for a building permit with a statement advising the owner that:

If the owner hires a contractor to perform work under the building permit and the contractor is not bonded or insured as required under s. 101.654 (2) (a), the following consequences might occur:

(a) The owner may be held liable for any bodily injury to or death of others or for any damage to the property of others that arises out of the work performed under the building permit or that is caused by any negligence by the contractor that occurs in connection with the work performed under the building permit.

(b) The owner may not be able to collect from the contractor damages for any loss sustained by the owner because of a violation by the contractor of the one- and two- family dwelling code or an ordinance enacted under sub. (1) (a), because of any bodily injury to or death of others or damage to the property of others that arises out of the work performed under the building permit or because of any bodily injury to or death of others or damage to the property of others that is caused by any negligence by the contractor that occurs in connection with the work performed under the building permit.

## **Cautionary Statement to Contractors for Projects Involving Building Built Before 1978**

If this project is in a dwelling or child-occupied facility, built before 1978, and disturbs 6 sq. ft. or more of paint per room, 20 sq. ft. or more of exterior paint, or involves windows, then the requirements of ch. DHS 163 requiring Lead-Safe Renovation Training and Certification apply. Call (608)261-6876 or go to the Wisconsin Department of Health Services' lead homepage for details of how to be in compliance.

## Wetlands Notice to Permit Applicants

You are responsible for complying with state and federal laws concerning the construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the Department of Natural Resources wetlands identification web page or contact a Department of Natural Resources service center.

## Additional Responsibilities for Owners of Projects Disturbing One or More Acre of Soil

I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and will comply with those standards.

Owner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# **Contractor Credential Requirements**

All contractors shall possess an appropriate contractor credential issued by the Wisconsin Department of Safety and Professional Services. Contractors are also required to only subcontract with contractors that hold the appropriate contractor credentials.